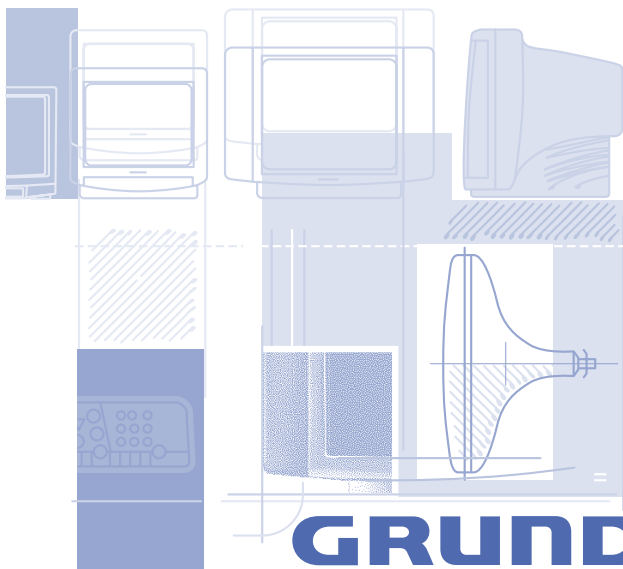
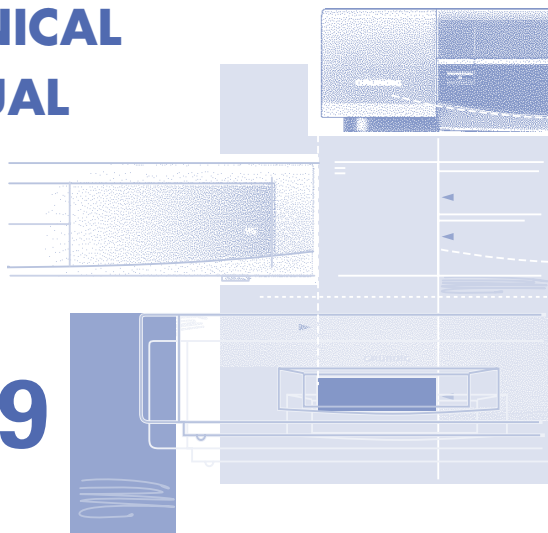


TECHNICAL ANNUAL

1999



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We would be obliged for any tips and suggestions or criticism which we shall give our attention.
Please send to fax number: ++49 9 11 / 7 03 19 05

Technical Annual 1999

Dear Readers,

In order not to go beyond the limits of a booklet this issues contains as usual only the latest data and technical changes.

For informations frequently repeated in the past few years please refer to the previous issues of the Grundig Technical Annual.

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Video Technology	3.1
Camcorder Technology	4.1
Satellite Reception	5.1
Audio Technology	6.1
Electronic Appliances	7.1

Subject to alteration

Partners help each other

Please help us find hidden faults and return all modules with a brief description of the fault.

For this purpose, a green fault tag or white adhesive label is enclosed with all modules (insert cards) delivered by the GRUNDIG service organisation.

○	FÜR IHR RÜCKABETEIL FOR RETURNING FAULTY MODULES ALLEGARE AL PEZZO CHE VIENE RIMANDATO INDIETRO POUR RETOURNER AVEC LE MODULE DEFECTUEUX PARA DEVOLUCIÓN DE MÓDULOS AVERIADOS	Fehleranhänger für Module / Label tag for modules
		Cartellino dei difetti per i moduli / Fiche suivieuse pour module
		Etiqueta de avería para módulos
		<input type="checkbox"/> Fehler tritt sofort auf / Fault occurs immediately / Il difetto compare subito Le défaut apparaît immédiatement / La averia aparece inmediatamente
		<input type="checkbox"/> Fehler tritt nur zeitweise auf / Fault occurs intermittently / Il difetto compare solo a periodi / Le défaut est intermittent / La averia aparece intermitentemente
<input type="checkbox"/> Fehler tritt nach ca. Minuten auf Fault occurs after approx minutes Il difetto compare dopo ca. minuti Le défaut apparait après environ minutes de fonctionnement La averia aparece tras minutos		
<input type="checkbox"/> Wackelkontakt / intermittent contact / Contacto difetoso Mauvais contact intermittent / contacto intermitente		
Sonstige Fehlererscheinungen: / Other faults: / Altri difetti: Autres défauts: / Otras averías: _____		

○	<p>Bitte unterstützen Sie uns beim Auffinden versteckter Fehler: Versehen Sie alle Modul-Rückläufer mit vollständig ausgefüllten Fehleranhängern!</p> <p>Please help us to trace obscure faults: Ensure all modules are returned with label tag completed!</p> <p>Collaborate con noi nella ricerca deidifetti: corredate ogni modulo che rimandate indietro dei cartellino dei difetti compilato in tutti i suoi punti!</p> <p>Afin de nous permettre d'améliorer la Qualité de notre service, nous vous prions de nous renvoyer avec votre module, cette étiquette dûment renseignée. Merci pour votre collaboration.</p> <p>Ayúdenos a encontrar las averías ocultas: procuren que cada módulo devuelto vaya con su etiqueta de avería para módulos debidamente relienda!</p>
	Sach-Nr.: 09624-645.03

Thank you very much for your kind assistance.

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 19"-Adapter single compact MA 19-3
 Enclosure Top Line
 Adapter RS-232 C -> IEEE 488.2
 MO 32 Dual Channel Oscilloscope
 MO 30 Dual Channel Oscilloscope
 SO 100 Digital Storage Oscilloscope
 S 100 S Operating and User Software

Video Measuring Instruments

PPE 400 PALplus Studio Encoder
 PPE 600 PALplus Studio Decoder
 VG 1100 Professional Video Generator
 VTG 700 Video Transmission Generator

Antenna Measuring Instruments

MSK 33 Combination Measuring Receiver
 SK 33/G Combination Measuring Receiver
 MSK 33/Q Combination Measuring Receiver
 ME 100 Combination Measuring Receiver
 MSK 23 Level Measuring Receiver
 MSK 23/V Level Measuring Receiver

Accessories

Connection cables
 probes and adapters
 oscilloscope accessories
 Bags

Grundig AG
 Geschäftsbereich Instruments
 Test- und Meßsysteme
 Würzburger Str. 150
 D-90766 Fürth

Tel.: 0911 / 703-4118
 Fax: 0911 / 703-4130

eMail: instruments@grundig.de

Internet: <http://www.grundig-instruments.de>

Division Instruments Test and Measuring Systems

Communication Measuring Instruments

Austria	Claus Grothusen OHG Saalachstr. 40 5019 Salzburg	Phone: + 43-662-4 33 68 80 Fax: + 43-662-43 60 04
Australia	Rhode & Schwarz Pty. Ltd. 63 Parramatta Silverwater N.S.W. 21 41	Phone: + 61-2-97 48 01 55 Fax: + 61-2-97 48 18 36
Belgium	Air-Parts B.V. Kalkovenweg 12 NL - 2401 LK Alphen aan den Rijn	Phone: + 31-172-422-455 Fax: + 31-172-421-022
Czech Republic	DOVATRON CZECH a.s. Purkynova 99 61245 Brno	Phone: + 420-5-41 12 28 35 Fax: + 420-5-41 21 20 85
Denmark	Erik Blichfeld A/S Essen 27 6000 Kolding	Phone: + 45-75 56 70 00 Fax: + 45-75 56 70 07
Denmark	Witronic A/S Road Roskildevej 308 2610 Rqdvore	Phone: + 45-36 72 20 00 Fax: + 45-36 72 04 40
Egypt	Phillips Egypt 10, Abdel Rahman El Rafei St. Mohandesin P.O. Box 242 Dokki Cairo	Phone: + 20-2-3 49 09 22 Fax: + 20-2-3 49 21 42
Finland	PERELO Y Torpankatu 28 05800 Hyvinkää	Phone: + 358-19-8 71 11 Fax: + 358-19-8 71 15 00
France	Salies S.A. 65-67, Avenue Jean Jouräs 91122 Palaiseau	Phone: + 33-1-69 20 40 10 Fax: + 33-1-69 20 36 04
Hong Kong	GEC Hong Kong CC Wu Building 302-308 Hennessy Road Wanchai P.O. Box 15 GPO	Phone: + 852-29 19 82 82 Fax: + 852-28 34 57 73
Indonesia	GAE PT Guna Electro Jl. Terusan Arjuna 50 Jakarta Barat 11510	Phone: + 62-21-5 65 50 10 Fax: + 62-21-5 65 50 30
Ireland	Vann Draper Electronics Limited Unit 5, Premier Works Canal Street South Wingston Leicester LE 18 2 PL	Phone: + 44-116-2 77 14 00 Fax: + 44-116-2 77 39 45
Israel	Kanion 8 Mikhaelis St. Kiryat-Arie P.O.B. 3783 Petah-Tikva 49130	Phone: + 972-3-9 22 12 87 Fax: + 972-3-9 22 07 51
Italy	Delo Instruments Via Piemonte, 14 20090 Fizzonasco Pieve E. (Mi)	Phone: + 39-2-90 72 24 41 Fax: + 39-2-90 72 27 42

Japan	Matsushita Electric Industrial Co. Ltd. Corporate International Trade Division 32nd Floor, World Trade Center Buildg. 4-1, Hamamatsu-Cho, 2-chome, Minato Ku Tokyo 105	Phone: + 81-3-54 04 88 43 Fax: + 81-3-54 04 88 49
	Luxembourg	Air-Parts B.V. Kalkovenweg 12 NL - 2401 LK Alphen aan den Rijn
Netherlands	Air-Parts B.V. Kalkovenweg 12 NL - 2401 LK Alphen aan den Rijn	Phone: + 31-172-422-455 Fax: + 31-172-421-022
	Norway	Grundig Norge A/S Postboks 234 1401 Ski
Poland	Lamium sp.c. ul. Toszecka 101/3 44-100 Gliwice	Phone: + 48-32-2 79 49 37 Fax: + 48-32 2 79 49 37
	Portugal	Grundig Portugesa Rua Bento de Jesus Caraca, 17, Cruz Quebrada 1495 Lisboa
Singapore	Gold Lite Pte. Ltd. Blk 211 Henderson Road Henderson Industrial Park # 08-03 Singapore 159552	Phone: + 65-2 73 04 87 Fax: + 65-2 73 50 06
	South Africa	Tek Test cc 28 van Loggerenberg Avenue Norkem Park Kempton Park 1618
South Korea	Whain Systech Co., LTD. 3F Iljeong Building, 425-2 Togok-Dong, Kangnam-Ku Seoul	Phone: + 82-2-571-57 11 Fax: + 82-2-571-57 14
	Sweden	Ferner Electronics AB Vedestavägen 15 17526 Järfälla
Sweden	Polystar AB Dalhemsvägen 23 14146 Huddinge	Phone: +46-8-6 08 28 28 Fax: +46-8-7 11 44 45
	Switzerland	Erivision AG Im Moos 13 4710 Balsthal
Switzerland	Grundig Schweiz AG Steinackerstraße 28 8302 Kloten	Phone: + 41-1-8 15 81 11 Fax: + 41-1-8 13 52 31
	Taiwan	Precision International Corp. PIC P.O. Box 03-15 Sanchung City 241 Taipei
Thailand	Schmidt Scientific (Thailand) Ltd. Government Housing Bank Bldg. 212 Rama 9 Rd., Huay Kwang Bangkok 10320 Thailand	Phone: + 662-643-13 30-9 Fax: + 662-643-13 40-1

UK	Vann Drapper Electronics Limited Unit 5, Premier Works Canal Street South Wigston Leicester LE 18 2PL	Phone: + 44-116-2 77 14 00 Fax: + 44-116-2 77 39 45
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Automotive Measuring Instruments

Austria	T.A.C. LUCAV Moserstr. 39 5020 Salzburg	Phone: + 43-662-43 75 01-43 Fax: + 43-662-43 75 01-39
Brazil	NAHUEL Indl. E Coml. LTDA Rua Pedro Alexandrino No. 205 J.D. Portinari, Diadema Sao Paulo	Phone: + 55-11-7467-133 Fax: + 55-11-7467-181
China	SHENZHEN WANTONG MOTOR-CAR TECHNOLOGY DEVELOPMENT CO., LTD 5/F 19 # Yan Shan RD. SheKou / ShenZhen People Republic of China (PRC)	Phone: + 86-755-6 89 18 85 Fax: + 86-755-6 67 92 95
Czech Republic	UNIVER, spol. s.r.o. Preperska 1809 511 01 Turnov	Phone: + 420-436-2 33 81 Fax: + 420-436-2 12 72
Hungary	T.A.G. HUNGARIA DEPO Pf. 23. 2046 Törökbalint	Phone: + 36-23-33 80 42 Fax: + 36-23-33 80 43
Norway	a.s. Fatskriver Persveien 32 P.B. 78, Oekern 05078 Oslo	Phone: + 47-22-64 58 60 Fax: + 47-22-65 83 50
Portugal	GRUBER LDA. Rua Oliveira Martins, 10-5ºD P-2810 Feijo	Phone: + 35-11-2 74 76 79 Fax: + 35-11-2 73 27 83
Spain	EDAGYAM S.L. Francelos s/n 15911 Rois (La Coruna)	Phone: + 349-8180-3339 Fax: + 349-8180-3555
Switzerland	W. Luginbühl AG Bruneggerstr. 45 5103 Möriken	Phone: + 41-62-8 93 24 24 Fax: + 41-62-8 93 37 05
USA	Gemini Technologies AG 5 Donald Drive, Orinda CA. 94563 USA	Phone: + 925-254-2755 Fax: + 925-253-8646

SERVICE TRAINING COURSES for our Customers

We train you in intensive courses in the GRUNDIG after-sales service division in Nürnberg as well as in one-day regional training courses.

We deal with all current questions on product technology in the fields of television, satellite reception, video, digital audio, and communications.

For detailed information on these courses please see the technical training booklet which is available on request from your competent GRUNDIG contact partner.

Training with Training Film Cassettes

GRUNDIG offers a training film titled "Servicing made easy - Training by Video" designed for private study and practical application in the field of servicing which has proven very well. The present offer of video cassettes comprises:

Training Film: Video VHS (2 x 4/1600)

Part No.:72007 744 6000

Flow converter power supply • sequence and motor control • servo control/ATF • video signal path • chroma signal path • mechanical adjustments • length ca. 90 minutes.

Training Film: Video VHS (VS 200/220)

Part No.:72007 744 7000

Diagnosis • power supply • sequence and motor control • servo control • video and chroma signal path • mechanical adjustments • length ca. 110 minutes.

Training Film: Television Compact Universal Chassis

Part No.:72007 744 8000

Switched mode power supply • transistor line output stages 90/110 degrees • east/west modulator • multi-standard reception • viewdata retrofitting • length ca. 55 minutes.

Training Film: Video VHS (VS 310, 320, 380 HiFi)

Part No.:72007 744 9000

(in English) 72007 744 9100

(in Italian) 72007 744 9200

Diagnosis • service works on drive mechanism • adjustments and mechanical settings • repair hints • functional characteristics of electrical modules • length ca.110 minutes.

Training Film: The Horizontal TV Chassis

Part No.:72007 744 9500

Line power supply • multi-standard reception • transistor line output stages 90/110 degrees • viewdata and PC connecting instructions • satellite receiver • satellite reception • adjustment of the paraboloidal reflector • service hints • length ca. 60 minutes.

Training Film: Video VHS (VS 340/400)

Part No.:72007 744 9700

Circuitry and mechanics • length ca. 90 minutes.

Training Film: Video VS 540 HiFi

Part No.:72007 744 9800

Circuitry and mechanics • length ca. 80 minutes.

Training Film: STP 300 Satellite System

Part No.:72007 744 6100

Installation of the satellite system STP 300 • length ca. 30 minutes.

Training Film: Highspeed Video Drive Mechanism HSD

Part No.:72007 744 8100

Dismantling and re-assembling the drive mechanism • replacement of wearing parts • replacement of the headwheel and the CTL head • adjustment of the tape run, tracking position and head gap position indicator • length ca. 30 minutes.

Private Study with Service Training Manuals

The following training manuals can be ordered for private study against payment of a fee:

TV Engineering

Service Training

	Language	Part Number
CUC 6360/6365/7300	D	72010 350 0000
Digi IV/ 100Hz Technique	D	72010 350 0500
Pal+ System Principles	D	72010 350 1000
Digi Basic	D	72010 350 1500
Digi Basic	GB	72010 350 1600
Digi Basic ++	D	72010 350 1700
Digi 6 / CUC 1842	D	72010 350 3000
Digi 6 / CUC 1842	GB	72010 350 3100
CUC 2000/2010/2030	D	72010 350 3500
CUC 2000/2010/2030	GB	72010 350 3600
Digi Basic 3 (deliverable ca. 03/99)	D	72010 350 3700
Planatron (deliverable ca. 07/99)	D	72010 350 3800

Video Engineering:

Service Training

	Language	Part Number
GV 400 and similar	D	72010 525 1000
GV 500 and similar	D	72010 525 1500
GV 540/560 HiFi and similar	D	72010 525 2000
HSD Drive Mechanism	D	72010 525 2500
GV 640 and similar	D	72010 528 9000
GV 640 and similar	GB	72010 528 9100
GV 670-690	D	72010 528 9300
GV 670-690 (deliverable ca. 4/99)	GB	72010 528 9400
GV 7000	D	72010 531 4000
GV 7000	GB	72010 531 4100
Principles of Digital-Video DV	D	72010 532 3500
MPEG Principles Digital-Video (deliverable ca. 02/99)	D	72010 534 4000

Audio/HiFi Engineering:

Service Training

	Language	Part Number
Principles of Audio Engineering	D	72010 749 5000
FM Tuner T11 / T1000	D	72010 749 5500
CD Player CD11 / CD12	D	72010 749 6000
DAB Principle (deliverable ca. 02/99)	D	72010 749 6500

Telecommunications Engineering:

Service Training

	Language	Part Number
Telecommunications Principles	D	72010 749 7000

Ⓢ General Instructions for Safety, MOS, Chip and Laser Technology

Ⓢ ⓊⓈⓐ ⓄⓃ

This Service Manual covers the safety regulations which must be observed when carrying out repairs.

It is to be regarded as a supplement to all Service Manuals which will be issued in future without these safety regulations.

Preserve this Service Manual carefully and observe the instructions given in it for product liability.


Please observe also all additional national safety regulations!

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Safety Instructions


The products identified in Service Manuals were manufactured to meet strict Quality and Safety Standards. It is imperative that the Safety Standards are observed when carrying out repairs to ensure that the product always conforms to IEC 65 or VDE Regulations and the harmonised National Safety Regulations, eg. Low Voltage Directive (73/23/EEC), the Low Voltage Electrical Equipment (Safety) Regulations, 1989 (UK) and the Electricity at Work Regulations, 1989 (UK) before it is returned to the owner.

This symbol: 

is used to identify components which conform to IEC or VDE Guidelines! When these require replacement, for continued compliance and protection, use only the original components specified in the Service Manual (List of Spare Parts). For continued protection against the risk of fire, the type and rating of fuses (nominal value, characteristic and rupturing rating) used as replacements must be as specified by the Standards!

After any repair, it is imperative that the Leakage Current and/or Insulation Resistance is checked as described in this Safety Manual. If the result of the check indicates that the product does not conform, the user / owner must be notified in writing. If the user / owner requests that the product is to be returned in a defective condition, the written warning must draw notice to the risks.

In all cases:

- The mains plug and the fuse fitted (UK) must be checked and any defect found corrected.
- The mains lead, and any other connecting leads, must be checked for damage and defects rectified. Check the insulation!
- The functional reliability of all tension relief and bending protection bushes provided in the product must be checked and defects rectified.
- For continued safety compliance, safety determining parts in the product must not be damaged or evidently unsuitable. This is especially valid for insulators and insulating parts.
- Use specified parts only. For components and assemblies marked with the Safety Symbol  the original specified spare parts only are strictly to be used.
- Use, if applicable, only information published in Grundig Technical Bulletins or in the Grundig Infotip System.
- Thermally loaded solder pads and those passing large currents, known by experience to cause a risk, must be thoroughly cleaned and re-soldered.
- Ensure that the ventilation openings are not obstructed or contaminated with dust.
- Ensure the proper disposal of exhausted batteries and accumulators (hazardous waste - environmental protection!)
- For all receivers, ensure that the aerial system conforms to BSI CP 6330:1983 (UK).
- Maintain records of all checks, remedial action and disposals.

Safety Standard Compliance

After repairing a product which originally conformed to the Safety Class II (double insulated), the Insulation Resistance and / or Leakage Current with the product switched on must be checked to VDE 0701 or to the National Safety Regulations quoted above.

The products covered by these Instructions conform to the Safety Class II, as identified by the symbol:



Warning: After repairs are carried out to parts within this product, the Safety Instructions given in VDE 0701 (Repair Instructions) and / or VDE 0860 / IEC 65 / EN 60065 (Product Specification) must be observed.



Components conforming to IEC or VDE Approval Specification! For replacement purposes, use parts with the same specification only!

MOS Observe the requirements when handling **MOS** Components!

Electrical Safety after repairs

According to the Product Liability Laws, the Manufacturer is responsible for ensuring that the product presents no danger to the user when used correctly. This risk is especially important with products which are operated from the mains voltage supply. To ensure that safety parameters are maintained especially after repairs have been carried out, it is imperative that the product is tested as specified in a recognised Test Procedure.

1. Products conforming to Safety Class I (earthed, Symbol)

Earth lead Test.

Check that the earth lead performs its function by using a Continuity Tester. For this integrity of the connection (conduction of current) from the protection lead contact in the plug to all metal parts that can be touched, with the product switched on and with it switched off, must be proved. A maximum of 0.3Ω is permitted for the resistance of a connecting lead with a length of up to 5 metres.

2. Products conforming to Safety Class II (insulated, Symbol)

Insulating resistance measurements as specified in VDE 0701/Part 200.

The insulation resistance between all electrical functioning stages and metallic cabinet parts that can be touched must be proved.

Measurement of the Insulation Resistance to VDE 0701

Connect an Insulation Test Meter ($U_{\text{test}} = 500\text{V DC}$) to both mains poles simultaneously and between the cabinet and all other functional parts (aerial and connecting sockets, buttons, decorative trims, screws, etc.) made from metal or metal alloy. The product is fault free if:

$$R_{\text{isol}} > 2\text{M}\Omega \text{ at } U_{\text{test}} = 500\text{V DC}$$

Measuring time: > 1s

Note: The Insulation Resistance in some Safety Class II products can be < 2MΩ, depending upon construction and the value of discharge resistors. In these cases, the Leakage Current is significant and must be checked.

Measurement of the Leakage Current to VDE 0701

Connect a Leakage Current Meter ($U_{\text{test}} = 220\text{V AC}^*$) to both mains poles simultaneously and between the cabinet and all other functional parts (aerial and connecting sockets, buttons, decorative trims, screws, etc.) made from metal or metal alloy. The product is fault free if:

$$I_{\text{leak}} < 1\text{mA} \text{ at } U_{\text{test}} = 220\text{V AC}^*$$

Measuring time: > 1s

* As, at the time of preparing these Safety Instructions, there is no British Standard Institute Standard that is equivalent to VDE 0701, use a test voltage of 240V AC.

- For testing to VDE 0701 / IEC 65 / BS 415 etc. we recommend that the measurements are carried out using the PAC 500, PAT 1000, PAT 2000, Metratester 4/5 or suitable equipment. These can be obtained from:

e.g. Seaward Electronic Ltd
Bracken Hill, South West Ind Est
Peterlee
Co Durham
SR8 2JJ
Telephone: 0191-5863511

e.g. Gossen-Metrawatt GmbH
Thomas-Mann-Str. 16-20
D-90471 Nürnberg

Note: Models quoted may be superseded with new models with the passage of time.

- The PAC provides an initial indication of a "pass" or "fail" and is also suitable for mobile (field service) use, and the PAT units are designed for in-house use and for the maintenance of records and other professional uses and are compatible with most PC systems.
- If the safety of the product is not proven because:
 - a repair and full restoration is not physically or economically possible
 - or if the user / owner requests that repairs are not to be carried out, **the user / owner must be given a written warning of the risk!**
- Observe the conditions given in the "Safety Instructions" section.

Important Advice and Safety Tests relevant to Service Repairs

- Service repairs must be carried out only by qualified personnel.
- Observe the VDE and National Safety Regulations as applicable.
- Operate line / mains powered units via an isolating transformer.
- Connect external aerials via an aerial isolating element.
- After repair, activate all protective circuits put out of operation.
- Before complete re-assembly of the unit restore the wiring to the original condition.
- Wear the protective clothing as required for repairs on picture tubes.
- Discharge the picture tube before dismantling it.
- When handling picture tubes avoid mechanical shocks to the tube (risk of implosion).



Important Safety Instructions

Attention: Please observe the applicable safety requirements according to VDE 0701 (concerning repairs) and VDE 0860 / IEC 65 / EN 60065 (concerning type of product)!



Components to IEC or VDE guidelines! Only use components with the same specifications for replacement!


MOS Observe **MOS** components handling instructions when servicing!


Attention: This appliance can only be operated from AC mains of 120V/60 Hz. Also observe the information given on the rear of the set.



CAUTION – FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSES!

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

 The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage", within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions – The safety and operating instructions should be retained for future reference.
- Heed Warnings – All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions – All operating and user instructions should be followed.
- Water and Moisture – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
- Wall or Ceiling Mounting – The appliance should be mounted to wall or ceiling only as recommended by the manufacturer.
- Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may obstruct the flow of air through the ventilation openings.

- Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- Power Sources – The appliance should be connected to a power supply only of the type given above or as marked on the appliance.
- Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning – The appliance should be cleaned only as recommended by the manufacturer.
- x1 Power Lines – An outdoor antenna should be located away from power lines.
- x2 Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static voltages. Section 810 of the National Electrical Code, ANSI / NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to the antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- Nonuse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- Damage Requiring Service – The appliance should be serviced by qualified service personnel when: The power-supply cord or the plug has been damaged; or objects have fallen, or liquid has been spilled into the appliance; or the appliance has been exposed to rain; or the appliance does not appear to operate normally or exhibits a marked change in performance; or the appliance has been dropped, or the enclosure damaged; or the batteries have been damaged.
- Servicing – the user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Items x1 and x2 apply only to receivers, tuners and TV sets.

LASER Safety

The MOS safety requirements must be met because many components, particularly the laser diode, are very sensitive to static electricity.

The pick-up unit incorporates many precision components and should therefore be protected against high temperatures, high humidity, strong magnetic fields, mechanical shocks and dust.

- The CD Player belongs to the category of products with a low-power LASER.
- According to DIN VDE 0837 or IEC 825 it is a Class 1 LASER meaning that the output power limits are determined by the design. The LASER DIODE must not be operated outside the pick-up since the output power increases by many times (Class 3B) and will cause injuries to the eye. In this case the use of LASER protective goggles is strictly recommended.
- Due to the lens system of the LASER pick-up the focal point of the LASER light is about 1.5mm above the focus lens. The focal point is located low enough to allow the LASER to be looked at with unprotected eyes.
- Avoid looking at the LASER using external optical means such as, for example, a magnifying glass because the focal point will be projected onto the retina and may cause injuries to the eye.
- The LASER light appears on the focus lens of the pick-up as a dark-red spot when looking at the optical system at an angle, preferably at low ambient brightness.
- By placing a sheet of transparent paper onto the focus lens the LASER spot is projected onto the back of the sheet and is well perceivable.

In general, built-in safety locks ensure that the LASER does not operate with an open disc compartment cover. In consideration of the above instructions, the special safety locks can be made ineffective and the LASER will be visible as a small red spot.

Safety Standard Classes for the LASER (according to DIN IEC 825 / VDE 0837)

Class 1

Not dangerous for the human eye. Maximum output power eg: at 700nm...69µW.



LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

Class 3 B

Dangerous for the human eye and, in special cases, for the skin. Maximum radiation power up to 0.5W.



FALLS ERFORDERLICH
IF APPLICABLE
HVIS NØDVENDIG
HVIS DET KREVES

The output of laser light from a CD pick-up unit corresponds to Class 1. If the laser diode is operated outside pick-up unit, this corresponds to operation under Class 3 B.

VORSICHT – UNSICHTBARE LASERSTRALHUNG TRITTT AUS. WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN.
CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL – USYNYLIG LASERSTRÅLING NÅR DEKSEL APENS UNNGA EKSPONERING FOR STRALEN.
ADVARSEL – USYNYLIG LASER STRÅLING VED ÅBNING. UNNGÅ UDSETTELSE FOR STRÅLING.
VARNING – OSYNYLIG LASER STRÅLNING NÅR DENNA DEL ÅR ÖPPNAD OCH SPÄRREN ÅR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
VARO – AVETTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALITTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING!
OM APPARATEN ANVÄNDS PÅ SÄTT ÄN I
DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN
UTSÄTTAS FÖR OSYNYLIG LASERSTRÅLNING,
SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ
KÄYTTÖOHJEESA MAINITULLA TAVALLA SAATTAA
ALITSTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN I
YLTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

Safety Advice for Lithium Batteries

Warning! Lithium Batteries:

Incorrectly used lithium batteries (excessive heat, reversed connection of terminals, short circuit) represent a danger of explosion!

Lithium batteries must be replaced **only** by the **original spare part** (see Spare Parts List).

Please observe the appropriate disposal regulations for exhausted lithium batteries.



Adverse!

Lithiumbatteri. Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.



Varning

Eksplosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt fabrikantens instruktion.



Varoitus

Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

Handling of MOS Chip Components

Circuits containing MOS devices require special and careful handling to protect them from damage by static charges. Static charges can build up on all highly insulated plastics, can be transferred to persons wearing clothes and shoes made from synthetic materials and from them to the MOS devices.

Protection circuits in the inputs and outputs of MOS devices provide only a limited degree of protection and this is due to their reaction time.

Please observe the following instructions to protect these components from damage by static charges:

1. Retain MOS components in their conductive packages until they are required for use. MOS components must never be stored or transported in Styroper materials or in plastic magazines.
2. Personnel handling MOS components must first discharge any electrostatic charge on their body or clothing by touching a grounded object.
3. Handle the MOS device by the body and do not touch the terminals / pins.
4. Use earthed instruments only for testing and processing purposes.
5. Removal of, or making contact with, MOS ICs fitted into sockets must only be carried out with the operating voltage disconnected.
6. Circuits containing p-channel MOS components must not be connected to positive voltages (with reference to the substrate connection VSS).

MOS Soldering Instructions

- Use mains-isolated low-voltage soldering irons only.
- Maximum soldering period is 5 sec with a soldering iron temperature of 300°C to 400°C.

CHIP Technology

Soldering and unsoldering of CHIP components

- Use only low-voltage soldering irons with temperature control.
- Permissible soldering temperatures are approx. 240°C up to max. 300°C.
- Keep the soldering period as short as possible.
- Keep the CHIP components in their original packages until they are used to avoid oxidation of the end contacts.
- Do not touch CHIP components with bare hands.

Unsoldering of CHIP components

1. step: Clean the CHIP soldering point with a solder wick (Fig. 1).
2. step: Warm up the ends of the CHIP or the whole CHIP component and remove the CHIP from the adhesive by turning it without application of force so that the tracks beneath the CHIP do not break (Fig. 2).

Attention! Never use unsoldered CHIPS again!
The conductive layer may be broken.

Soldering of CHIP components

3. step: Remove any remaining residues from the soldering point. Then apply a bead of solder (Fig. 3).
4. step: Place the CHIP onto the soldering point, then center and fix it (Fig. 4).
5. step: Solder the free end of the CHIP and resolder the first soldering point after it has cooled (Fig. 5).

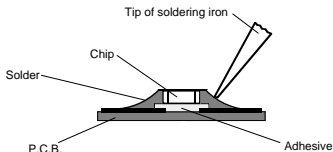


Fig. 1

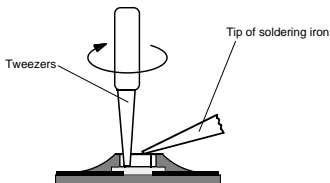


Fig. 2

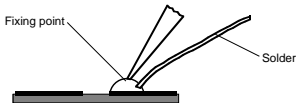


Fig. 3

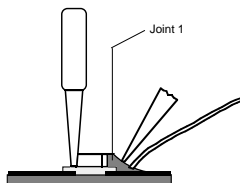


Fig. 4

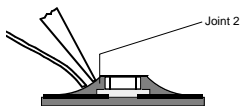



Fig. 5

More detailed information on the SMD soldering technology is given in the service brochure "SMD Soldering Technology" –  – obtainable under the part no. 72008-499.98.

GRUNDIG

ISDN - InfoTip

The common

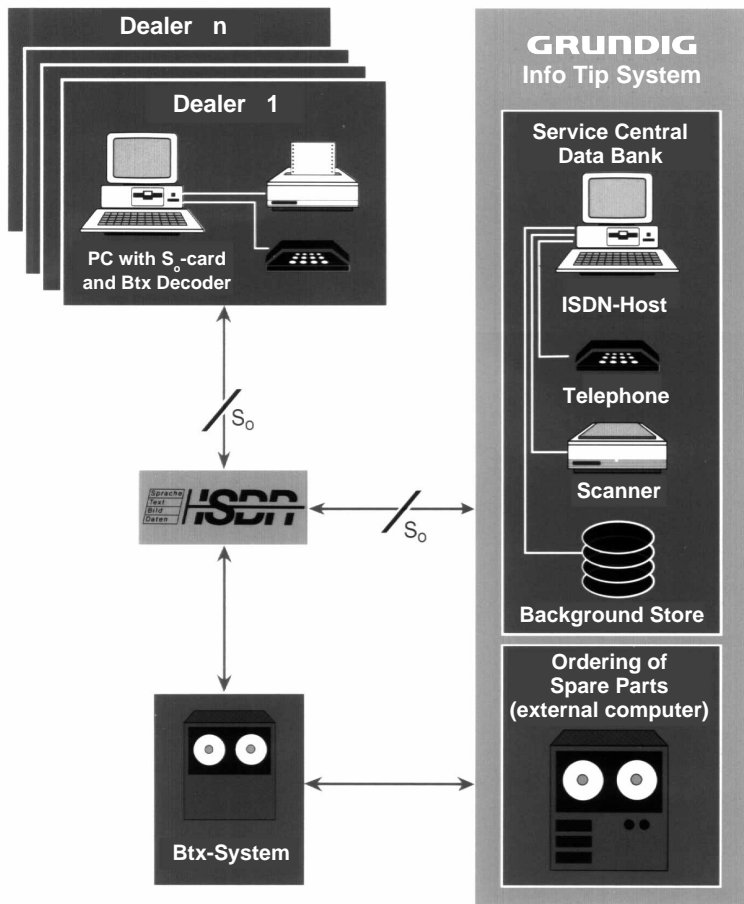
Service Communication System in the

Entertainment Electronics Industry!

GRUNDIG and members of the industrial association of entertainment electronics within the ZVEI (Central Association of the Electrotechnical Industry) offer the specialised dealers

"ISDN-Info Tip"

as a future-orientated communication system.



ISDN - InfoTip

Germany

1. The System, the Services

Communication medium:

ISDN net of the German Federal Postal Administration - Telekom

General benefit of ISDN:

eight services in one net
international network
two exchange lines usable at the same time
for different services
high bit rate: 64 kBit/s

Preconditions for the specialised dealer:

ISDN connection
PC 386 at least, DOS or Windows, VGA
(fixed disk, ca. 3 MB for each provider)
ISDN Controller Card
ISDN-InfoTip Software

Expenses accruing for the specialised dealer:

ISDN connection (single payment)
ISDN Controller Card
InfoTip Software
ISDN-InfoTip annual fee

**For further particulars and information on prices
please contact the Info-Tip Service GmbH.
Hotline 0180 567 3042.**

1. The Systems, the Services

Services of ISDN-Info-Tip

- Service repair tips
- Product information
- Programme update via ISDN
- Data update via ISDN
- Spare parts lists
- Ordering of spare parts
- Survey of product types
- Retrofitting options
- Extracts from circuit diagrams DIN A 4
- Exploded views DIN A4
- Print layouts DIN A4
- Flow charts, tables DIN A4

2. Benefit to the specialised dealer

- uniform system spanning a multitude of manufacturers
- uniform easy-to-operate control interface
- special knowledge of manufacturers up-to-date and everywhere available
- Information and placing orders around the clock
- characteristic information specific to the brand is maintained
- complete solution of problems with one system:
 - symptom - check - repair tips
 - ordering of spare parts - documents
- no delays on the telephone
- the dealer's competence is decisively increased
- saves time and costs, mainly offline use
- high acceptance is guaranteed by a common system

Grundig Universal Remote Controls



TV Control 1

Part No: 72011 601 0000

replaces the following types:

Type	Code
TP Easy	102
TP 621	101
TP 622	101
TC 622	101
RC 622	101
TP 623	102
TP 661	103
RC 661	103
TP 661 Top	104
RC 661 Top	104
TP 661 Fasttext	104
TP 663	105
TP 911	103
TP 911 Top	104

and variant versions



TV Control 2

Part No: 72011 602 0000

replaces the following types:

Type	Code
TVP 1	122
TVP 2	123
TP 15	117
TP 85	113
TP 200	113
TP 300	113
TP 300 Text	113
TP 310	113
TP 360	113
TP 370	113
TP 380	113
TP 390	115
TP 400	113
TP 500 Antiope	114
TP 500 AT Antares	113
TP 500	113
TP 590 VT	115
TP 600	115
TP 610	116
TP 611	116
RC 611	116
TP 630	116
TP 650	116
TC 650	116
TP 660	116
TC 660	116
TP 660 Top/Fast	119

and variant versions



Video Control 1

Part No: 72011 610 0000

replaces the following types:

Type	Code
RP 4	205
RP 6	201
RC 6	201
RP 50	205
VP 386	202
VP 615	206
RC 615	206

and variant versions



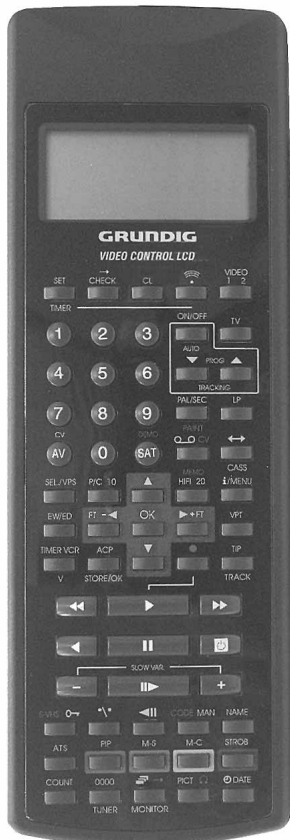
SAT Control 1

Part No: 72011 620 0000

replaces the following types:

Type	Code
TP DSR	302
RC SAT	301
RC 200 SAT	301
RC 201	301
RC 212	301
RC 300	301

and variant versions



Video Control LCD

Part No: 72011 615 0000

replaces the following types:

Type	Code
RP 5 LCD	1
RP 6 LCD	1
RP 13 LCD	2
RP 20 LCD	3
RP 25 LCD	4
RP 30 LCD	5
RP 33 LCD	6
RP 35 LCD	6
RC 60 LCD	7
RP 65 LCD	1
RP 70 LCD	1
RC 70 LCD	1
RC 75 LCD	7
RP 75 LCD	7
RP 85 LCD	8
RP 90 LCD	7
RP 95 LCD	7
RP 130 LCD	2

and variant versions

The handling of the remote controls not mentioned above remains unchanged.

Due to the actuality of the Series 700 remote controls, the total range of these controls will continue to be offered in the original version.

We recommend our dealers to build up appropriate stocks of these four types for immediate customer support in the case of repairs.

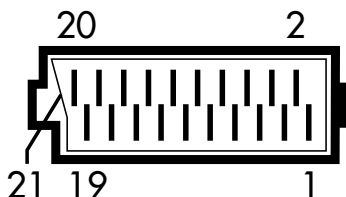
The remote controls are offered in a pleasing sales packing with all operating and coding information printed on it.

Pinning of Sockets and Plugs

Pinning of the EURO-AV Socket

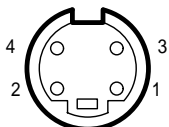
The following table helps your dealer to establish a standard connection of your television receiver to additional equipment on request (e.g. computer, amplifier):

Pin		Signal
1	=	Audio output right
2	=	Audio input right
3	=	Audio output left
4	=	Audio ground
5	=	Blue ground
6	=	Audio input left
7	=	RGB blue input, chroma in-/output at SVHS
8	=	Switching voltage 6V (16:9), 12V (4:3)
9	=	Green ground
10	=	Data lead MEGALOGIC
11	=	RGB green input
12	=	Data
13	=	Red ground
14	=	Ground
15	=	RGB red input, chroma out-/input at SVHS
16	=	RGB switching voltage
17	=	Video ground
18	=	RGB switching voltage ground
19	=	CCVS output
20	=	CCVS / Y input
21	=	Shielding/ground



Pinning of Hosiden Socket (S-Video)

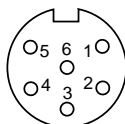
Pin		Signal
1	=	Ground
2	=	Ground
3	=	Y-signal
4	=	Chroma signal



Draufsicht

Pinning of DIN-AV Socket

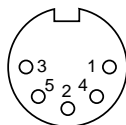
Pin		Signal
1	=	Switching voltage on playback
2	=	CCVS signal
3	=	Ground
4	=	Audio left
5	=	Operating voltage for video adapter
6	=	Audio right



Draufsicht

Pinning of DIN-Audio Socket

Pin		Signal
1	=	Record left and mono
2	=	Ground
3	=	Playback left and mono
4	=	Record right
5	=	Playback right



Draufsicht

Contact Configuration of Jack Plug

Contact		Signal
1	=	Ground
2	=	AF right
3	=	AF left



Pinning of ISO Standard Connector Blocks for Car Radios

(I: Additional connector block for Grundig products only)

I: Additional block

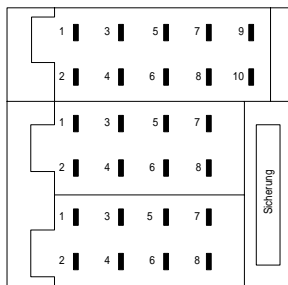
Pin	=	Signal
1	=	TXD
2	=	RXD
3	=	+A CD changer
4	=	+U CD changer
5	=	GND (ground)
6	=	GND (ground)
7	=	Line out FR
8	=	Line out RR
9	=	Line out FL
10	=	Line out RL

II: Loudspeaker connector block

Pin	=	Signal
1	=	RR+ (rear right)
2	=	RR- (rear right)
3	=	FR+ (front right)
4	=	FR- (front right)
5	=	FL+ (front left)
6	=	FL- (front left)
7	=	RL+ (rear left)
8	=	RL- (rear left)

III: Power supply connector block

Pin	=	Signal
1	=	SCV
2	=	Telephone mute
3	=	not used
4	=	Ignition (contact 15)
5	=	Automatic aerial
6	=	Illumination
7	=	+14V (contact 30)
8	=	GND (ground)



I: Additional block

II: Loudspeaker connector block

III: Power supply connector block

Top View

Pinning of ISO Standard Connector Blocks for Car Radios

(I: Additional connector block for Grundig products only)

I: Additional connector block

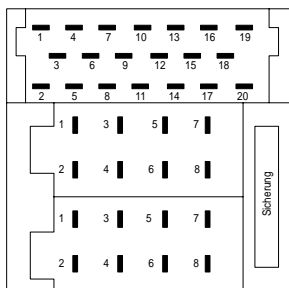
Stift		Signal
1	=	Line out RL
2	=	Line out RR
3	=	Line out GND
4	=	Line out FL
5	=	Line out FR
6	=	+Booster
7	=	RXD
8	=	TXD
9	=	GND
10	=	Subwoofer AF
11	=	Aux IN
12	=	Aux GND
13	=	CD bus
14	=	not used
15	=	CD bus GND
16	=	+A CD changer
17	=	+U CD changer
18	=	CD-AF GND
19	=	CD-AF left
20	=	CD-AF right

II: Loudspeaker connector block

Pin		Signal
1	=	RR+ (rear right)
2	=	RR- (rear right)
3	=	FR+ (front right)
4	=	FR- (front right)
5	=	FL+ (front left)
6	=	FL- (front left)
7	=	RL+ (rear left)
8	=	RL- (rear left)

III: Power supply connector block

Pin		Signal
1	=	SCV
2	=	Telephone mute
3	=	not used
4	=	Ignition (contact 15)
5	=	Automatic aerial
6	=	Illumination
7	=	+14V (contact 30)
8	=	GND (ground)



I: Additional block

II: Loudspeaker connector block

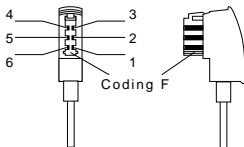
III: Power supply connector block

Top View

**TAE-plug (F-coded)
with integrated Western socket**

Standardized contact configuration
(TAE-plug)

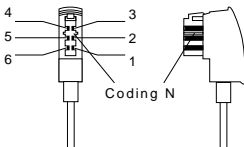
- 1 --> A 4 --> E
 - 2 --> B 5 --> NC
 - 3 --> W2 6 --> NC
- (NC = not connected)



**TAE-plug (N-coded)
with integrated Western socket**

Standardized contact configuration
(TAE-plug)

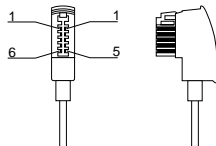
- 1 --> A 4 --> E
- 2 --> B 5 --> B1
- 3 --> W2 6 --> A1



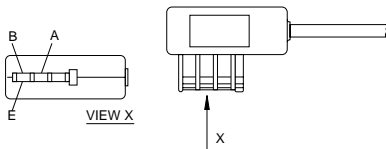
Connecting plug for Austrian variant

Contact configuration

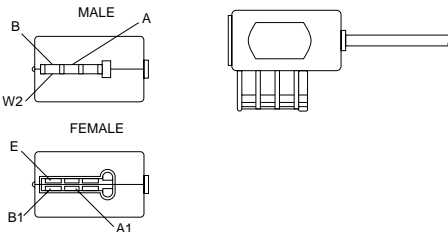
- 1 --> A 6 --> B1
 - 2 --> E 7 --> NC
 - 3 --> W2 8 --> NC
 - 4 --> NC 9 --> NC
 - 5 --> B 10 --> A1
- (NC = not connected)



Connecting plug for French variant 1



Connecting plug for French variant 2



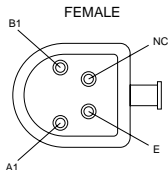
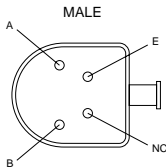
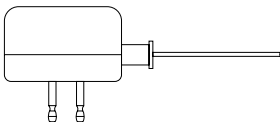
Connecting plug for Swiss variant



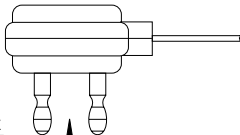
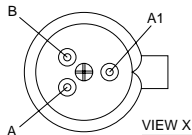
VIEW X



Connecting plug for Dutch variant



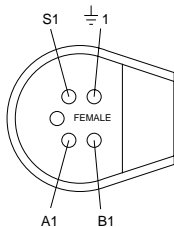
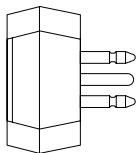
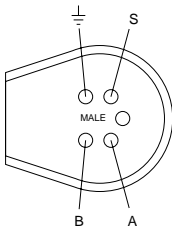
Connecting plug for Italian variant



VIEW X

X

Connecting plug for Belgian Variant



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General Television Standards

Standard	Lines	Channel Width in MHz	Video Bandwidth in MHz	Vision/Sound Spacing in MHz	Residual Side-band in MHz	Colour Sub-carrier in MHz (PAL)	Vision Modulation	Sound Modulation
A	405	5	3	-3,5	0,75	-	Pos	AM
B	625	7	5	+ 5,5	0,75	4,43	Neg	FM
C	625	7	5	+ 5,5	0,75	4,43	Pos	AM
D	625	8	6	+ 6,5	0,75	-	Neg	FM
E	819	14	10	+ 11,15	2	-	Pos	AM
F	819	7	5	+ 5,5	0,75	-	Pos	AM
G	625	8	5	+ 5,5	0,75	4,43	Neg	FM
H	625	8	5	+ 5,5	1,25	4,43	Neg	FM
I	625	8	5,5	+ 6,0	1,25	4,43	Neg	FM
K	625	8	6	+ 6,5	0,75	4,43	Neg	FM
K'	625	8	6	+ 6,5	1,25	4,43	Neg	FM
L	625	8	6	+ 6,5	1,25	4,43	Pos	AM
M	525	6	4,2	+ 4,5	0,75	3,576 *)	Neg	FM
N	625	6	4,2	+ 4,5	0,75	3,582	Neg	FM

50 Hz field frequency, 60 Hz only Standard M

*) NTSC = 3.579 MHz

Band IV/V - European and African Standards

(only 625 lines, channel bandwidth 8 MHz)

Standard	Video Bandwidth MHz	Vision/Sound Spacing MHz	Residual Side-band MHz	Vision Modulation	Sound Modulation MHz	Colour Sub-carrier	Picture/Sound Ratio
G	5	5,5	0,75	Neg	FM	4,43	5:1
H	5	5,5	1,25	Neg	FM	4,43	5:1
I	5,5	6	1,25	Neg	FM	4,43	5:1
K	6	6,5	0,75	Neg	FM	4,43	5:1
L	6	6,5	1,25	Pos	AM	4,43	8:1

Satellite Bands

Designation	Frequency Range GHz
C-Band	3,6-4,2
Ku-Bands	10,7-12,75

Standards and Channels

Standard A

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 1	45,0	41,5	Ch 7	184,75	181,25
Ch 2	51,75	48,25	Ch 8	189,75	186,25
Ch 3	56,75	53,25	Ch 9	194,75	191,25
Ch 4	61,75	58,25	Ch 10	199,75	196,25
Ch 5	66,75	63,25	Ch 11	204,75	201,25
Ch 6	179,75	176,25	Ch 12	209,75	206,25

Standard B/C/F/G

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
	Band I		Ch 37	599,25	604,75
Ch 1	46,25	51,75	Ch 38	607,25	612,75
Ch 2	48,25	53,75	Ch 39	615,25	620,75
Ch 3	55,25	60,75	Ch 40	623,25	628,75
Ch 4	62,25	67,75	Ch 41	631,25	636,75
	Band III		Ch 42	639,25	644,75
Ch 5	175,25	180,75	Ch 43	647,25	652,75
Ch 6	182,25	187,75	Ch 44	655,25	660,75
Ch 7	189,25	194,75	Ch 45	663,25	668,75
Ch 8	196,25	201,75	Ch 46	671,25	676,75
Ch 9	203,25	208,75	Ch 47	679,25	684,75
Ch 10	210,25	215,75	Ch 48	687,25	692,75
Ch 11	217,25	222,75	Ch 49	695,25	700,75
Ch 12	224,25	229,75	Ch 50	703,25	708,75
	Band IV/V acc. to Standard H		Ch 51	711,25	716,75
Ch 21	471,25	476,75	Ch 52	719,25	724,75
Ch 22	479,25	484,75	Ch 53	727,25	732,75
Ch 23	487,25	492,75	Ch 54	735,25	740,75
Ch 24	495,25	500,75	Ch 55	743,25	748,75
Ch 25	503,25	508,75	Ch 56	751,25	756,75
Ch 26	511,25	516,75	Ch 57	759,25	764,75
Ch 27	519,25	524,75	Ch 58	767,25	772,75
Ch 28	527,25	532,75	Ch 59	775,25	780,75
Ch 29	535,25	540,75	Ch 60	783,25	788,75
Ch 30	543,25	548,75	Ch 61	791,25	796,75
Ch 31	551,25	556,75	Ch 62	799,25	804,75
Ch 32	559,25	564,75	Ch 63	807,25	812,75
Ch 33	567,25	572,75	Ch 64	815,25	820,75
Ch 34	575,25	580,75	Ch 65	823,25	828,75
Ch 35	583,25	588,75	Ch 66	831,25	836,75
Ch 36	591,25	596,75	Ch 67	839,25	844,75
			Ch 68	847,25	852,75
			Ch 69	855,25	860,75

Standard D *)

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 1	49,75	56,25	Ch 7	183,25	189,75
Ch 2	59,25	65,75	Ch 8	191,25	197,75
Ch 3	77,25	83,75	Ch 9	199,25	205,75
Ch 4	85,25	91,75	Ch 10	207,25	213,75
Ch 5	93,25	99,75	Ch 11	215,25	221,75
Ch 6	175,25	181,75	Ch 12	223,25	229,75

*) UHF channels and vision carriers, please see Standard B, vision to sound carrier spacing + 6.5 MHz each

Standard E

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 2	52,4	41,25	Ch 8	185,25	174,1
Ch 4	65,55	54,4	Ch8A	186,55	175,4
Ch 5	164	175,15	Ch 9	190,3	201,45
Ch 6	173,4	162,25	Ch 10	199,7	188,55
Ch 7	177,15	188,3	Ch 11	203,45	214,6
			Ch 12	212,85	201,7

Standard I

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
A	45,75	51,75			
B	53,75	59,75			
C	61,75	67,75	Ch 21	471,25	477,25
D	175,25	181,25	Ch 22	479,25	485,25
E	183,25	189,25			
F	191,25	197,25		up to *	
G	199,25	205,25			
H	207,25	213,25	Ch 67	839,25	845,25
I	215,25	221,25	Ch 68	847,25	853,25

* Channel allocation and vision carriers, please see Standard B. Vision to sound carrier spacing + 6 MHz each.

Standard K' (French overseas territories)

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 4	175,25	181,75	Ch 7	199,25	205,75
Ch 5	183,25	189,75	Ch 8	207,25	213,75
Ch 6	191,25	197,75	Ch 9	215,25	221,75

Standard M/N

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 1	-	-	Ch 8	181,25	185,75
Ch 2	55,25	59,75	Ch 9	187,25	191,75
Ch 3	61,25	65,75	Ch 10	193,25	197,75
Ch 4	67,25	71,75	Ch 11	199,25	203,75
Ch 5	77,25	81,75	Ch 12	205,25	209,75
Ch 6	83,25	87,75	Ch 13	211,25	215,75
Ch 7	175,25	179,75	Ch 14	471,25	475,75
				continually up to	
			Ch 83	885,25	889,75

Channel Allocation - Italy (otherwise Standard B)

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
A	53,75	59,25	E	183,25	189,75
B	62,25	67,75	F	192,25	197,75
C	82,25	87,75	G	201,25	206,75
D	175,25	180,75	H	210,25	215,75
			H 1	217,25	222,75

Channel Allocation - Morocco (otherwise Standard B)

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
M 4	163,25	168,75	M 8	195,25	200,75
M 5	171,25	176,75	M 9	203,25	208,75
M 6	179,25	184,75	M 10	211,25	216,75
M 7	187,25	192,75			

Channel Allocation - Australia (otherwise Standard B)

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 0	46,25	51,75	Ch 6	175,25	180,75
Ch 1	57,25	62,75	Ch 7	182,25	187,75
Ch 2	64,25	69,75	Ch 8	189,25	194,75
Ch 3	86,25	91,75	Ch 9	196,25	201,75
Ch 4	95,25	100,75	Ch 10	209,25	214,75
Ch 5	102,25	107,75	Ch 11	216,25	221,75
Ch 5A	138,25	143,75			

Channel Allocation - New Zealand (otherwise Standard B)

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 1	45,25	50,75	Ch 6	189,25	194,75
Ch 2	55,25	60,75	Ch 7	196,25	201,75
Ch 3	62,25	67,75	Ch 8	203,25	208,75
Ch 4	175,25	180,75	Ch 9	210,25	215,75
Ch 5	182,25	187,75			

Channel Allocation - Japan (otherwise Standard M)

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 1	91,25	95,75	Ch 10	205,25	209,75
Ch 2	97,25	101,75	Ch 11	211,25	215,75
Ch 3	103,25	107,75	Ch 12	217,25	221,75
Ch 4	171,25	175,75			
Ch 5	177,25	181,75	Ch 33	591,25	595,75
Ch 6	183,25	187,75			
Ch 7	189,25	193,75			
Ch 8	193,25	197,75			
Ch 9	199,25	203,75	Ch 62	765,25	769,75

continually up to

Television Standards of the World

(as far as known to us)

with indication of the mains voltage and mains frequency

Country	b/w	Colour	Mains voltage Volt	Mains frequency Hz
Afghanistan	B	PAL	220	50
Albania	B/G	PAL	220	50
Algeria	B/H	PAL	127-220	50
Angola	I	PAL	220	50
Antigua	M	NTSC	230	50
Argentina	N 1)	PAL	220	50
Australia	B/H 1)	PAL	240	50
Austria	B/G	PAL	220	50
Azores	B	PAL	220	50
Bahamas	M	NTSC	120	60
Bahrain	B	PAL	230	50-60
Bangladesh	B	PAL	220-230	50
Barbados	N	NTSC	110-220	50
Belgium	B/H	PAL	220	50
Benin	K'	SECAM	220	50
Bermuda	M	NTSC	115-120	60
Bolivia	N	NTSC	115-230	50-60
Botswana	I 1)	PAL	220	50
Brasil	M	PAL	220	60
Brunei	B	PAL	230	50
Bulgaria	D/K	SECAM (B/Z)	220	50
Burkina Fasso	K'	SECAM	220	50
Burkina Fasso (Upper Volta)	K'	SECAM	220	50
Burma	M	NTSC	220	50
Burundi	K1	SECAM	220	50
Cambodia	B/G	PAL	120-220	50
Cameron	B/G	PAL	127-220	50
Canada	M	NTSC	120	60
Canary Islands	B/G	PAL	127-220	50
Central African Republic	K	SECAM	220	50
Chad	K'	SECAM	220	50
Chile	M	NTSC	220	50
China (People's Republic)	D/K	PAL	220	50
Colombia	M	NTSC	120	60
Congo (Republic)	K'	SECAM	220	50
Costa Rica	M	NTSC	120	60
Croatia	B/G	PAL	220	50
Cuba	M	NTSC	115-120	60
Cyprus	B/G	SECAM (Z) + PAL	240	50
Czechia	D/K	PAL	220	50
Denmark	B/G	PAL	220	50
Djibouti	K'	SECAM	220	50
Dominican Republic	M	NTSC	110	60
Ecuador	M	NTSC	110-220	60
Egypt	B/H	SECAM	110-220	50

1) Channels are differing! (B) = Field identification (Z) = Line identification

Country	b/w	Colour	Mains voltage Volt	Mains frequency Hz
El Salvador	M	NTSC	115	60
Ethiopia	B/G	PAL	220	50
Fiji Islands	B	PAL	240	50
Finland	B/G	PAL	230	50
France	E/L	SECAM (Z)	220	50
Gabon	K'	SECAM	220	50
Germany	B/G	PAL	230	50
Ghana	B	PAL	220	50
Gibraltar	B/H	PAL	240	50
Great Britain	A/I	PAL	210-240	50
Greece	B/H	PAL	220	50
Greenland	M	NTSC	220	50
Guadelope	K'	SECAM	220	50
Guatemala	M	NTSC	110-220	60
Guayana (French)	K'	SECAM	220	50
Guinea Republic	K'	SECAM	220	50
GUS states (former)	D/K	SECAM (B/Z)	127-220	50
Haiti	M	NTSC	110-220	50-60
Hawaii	M	NTSC	120	60
Honduras	M	NTSC	110-220	60
Hong Kong	I	PAL	220	50
Hungary	D/K	PAL	220	50
Iceland	B/G	PAL	220	50
India	B	PAL	220	50
Indonesia	B	PAL	220	50
Iran	B/G	SECAM (Z)	220	50
Iraq	B	SECAM (Z)	220	50
Ireland (Republic)	I	PAL	220	50
Israel	B/G	PAL	230	50
Italy	B/G	PAL	127-220	50
Ivory Coast	K'	SECAM (B)	220	50
Jamaica	M	NTSC	220	50
Japan	M 1)	NTSC	100-200	50/60
Jordan	B/G	PAL	220	50
Kenya	B	PAL	240	50
Korea (People's Republic)	D	SECAM	100-200	50
Korea (Republic)	M	NTSC	220	60
Kuwait	B/G	PAL	240	50
Laos	M	PAL	127-220	50
Lebanon	B	SECAM (Z)	110-220	50
Liberia	B	PAL	120	60
Libya	B/H	SECAM (Z)	127-230	50
Luxembourg	B/G/L	PAL/SECAM (Z)	120-220	50
Madagascar	K'	SECAM	127-220	50
Madeira	B	PAL	220	50
Malaysia	B/G	PAL	240	50
Maldiv Islands	B	PAL	230	50
Malta	B/H	PAL	240	50
Martinique	K'	SECAM (B)	220	50
Mauritania	K'	SECAM	220	50
Mauritius	B	SECAM	230	50

1) Channels are differing! (B) = Field identification (Z) = Line identification

Country	b/w	Colour	Mains voltage Volt	Mains frequency Hz
Mexico	M	NTSC	120	60
Monaco	E/L/G	PAL/SECAM (B/Z)	127-220	50
Mongolia	D	SECAM (B/Z)	220	50
Morocco	B/H	SECAM (B)	115-230	50
Mozambique	B	PAL	220	50
Netherlands	B/G	PAL	220	50
Netherlands Antilles	M	NTSC	115-223	50-60
New Caledonia	K'	SECAM	220	50
New Zealand	B1)	PAL	240	50
Nicaragua	M	NTSC	120	60
Niger	K'	PAL	220	50
Nigeria	B/I	PAL	230	50
Norway	B/G	PAL	230	50
Oman	B/G	PAL	220	50
Pakistan	B	PAL	220-230	50
Panama	M	NTSC	120	60
Paraguay	N	PAL	220	50
Peru	M	NTSC	220	60
Philippines	M	NTSC	220	60
Poland	D/K	PAL	220	50
Portugal	B/G	PAL	220	50
Puerto Rico	M	NTSC	120	60
Quatar	B	PAL	240	50
Republic of South Africa	I1)	PAL	230	50
Rumania	D/K	PAL	220	50
Rwanda	K'	PAL/SECAM	220	50
Samoa	M	NTSC	230	50
Saudi Arabia	B/G	PAL/SECAM (Z)	220	50-60
Senegal	K'	SECAM	127-220	50
Sierra Leone	B	PAL	220	50
Singapore	B/G	PAL	230	50
Slovakia	D/K	PAL	220	50
Slovenia	B/G	PAL	220	50
Somalia	B/G	PAL	110-230	50
Spain	B/G	PAL	127-220	50
Sri Lanka	B/H	PAL	220	50
St. Pierre and Miquel	K'	SECAM		
Sudan	B	PAL	240	50
Surinam	M	NTSC	110-127	60
Swaziland	B/G	PAL	230	50
Sweden	B/G	PAL	220	50
Switzerland	B/G	PAL	220	50
Syria	B	PAL	115-220	50
Tahiti	K'	SECAM	120-240	60
Taiwan	M	NTSC	120	60
Tanzania	B	PAL	230	50
Thailand	B/G	PAL	220	50
Togo	K'	SECAM	127-220	50
Trinidad and Tobago	M	NTSC	115-230	60
Tunisia	B/G	SECAM	127-220	50
Turkey	B/G	PAL	220	50
Uganda	B/G	PAL	240	50

1) Channels are differing! (B) = Field identification (Z) = Line identification

Country	b/w	Colour	Mains voltage Volt	Mains frequency Hz
United Arab Emirates	B/G	NTSC	220-240	50
Uruguay	N	PAL	220	50
USA	M	NTSC	110	60
Venezuela	M	NTSC	120	60
Vietnam	D/M	NTSC/SECAM	120-230	50
Virgin Islands	M	NTSC	120	60
Yemen (Republic)	B	PAL	220	50
Yugoslavia (former)	B/G	PAL	220	50
Zaire	K'	SECAM	220	50
Zambia	B	PAL	220	50
Zanzibar	I	PAL	230	50
Zimbabwe	B/G	PAL	220	50

(B) = Field identification (Z) = Line identification

Notes:

1. For countries where several mains voltage levels are applicable because of regional differences, the lowest and highest value is given.
2. Two mains frequencies are stated for countries where two frequencies are possible.

Important for the Selection of Special Channels with non-directly indicating Colour TVs and VCRs with Frequency Synthesizer and Cable Tuner

All German-language transmitters (Federal Republic of Germany, Austria) are directly indicated with their channel numbers. Exceptions may exist for transmitters which are converted into other frequency ranges by converters (e.g. reception by cable). The table given below shows the allocation of the channel numbers to special channels of public cable television systems:

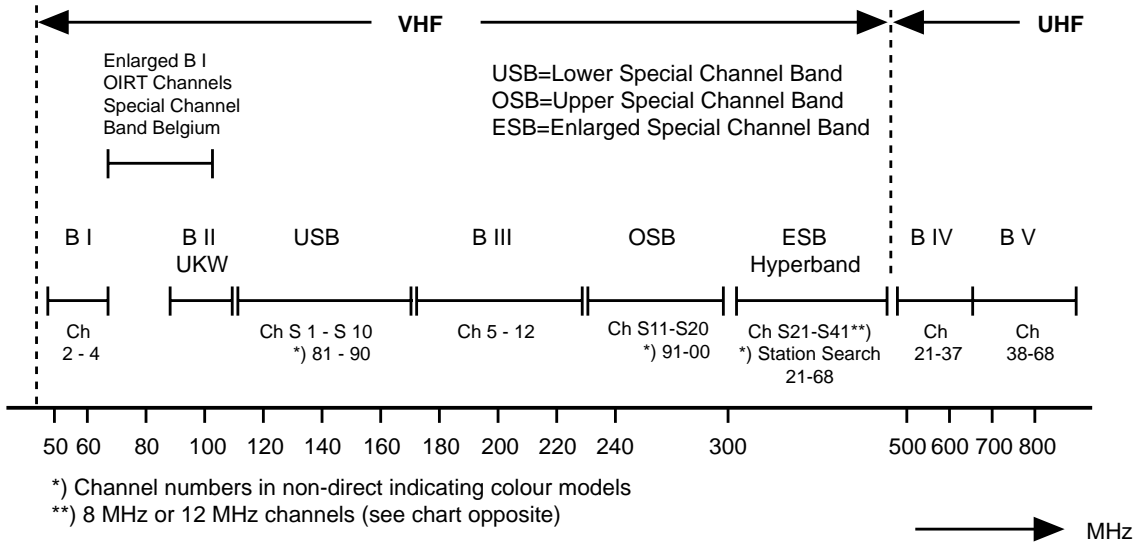
Channel No. Indication	Special Channel	Vision Carrier Frequency (MHz)	Band
81	S 1	105,25	Lower Special Channel Band "LSB"
82	S 2	112,25	
83	S 3	119,25	
84	S 4	126,25	
85	S 5	133,25	
86	S 6	140,25	
87	S 7	147,25	
88	S 8	154,25	
89	S 9	161,25	
90	S 10	168,25	
91	S 11	231,25	Upper Special Channel Band "USB"
92	S 12	238,25	
93	S 13	245,25	
94	S 14	252,25	
95	S 15	259,25	
96	S 16	266,25	
97	S 17	273,25	
98	S 18	280,25	
99	S 19	287,25	
00	S 20	294,25	
74		69,25	Special Channel Band Belgium
75		76,25	
76		83,25	
77		90,25	OIRT Channels
78		97,25	
79		59,25	
80		93,25	

Hyperband in Germany

GRUNDIG television receivers fitted with the Tuner 29504-101.01/ .06 can receive the Hyperband channels S21 - S25 only by means of a hyperband converter. This converter can be obtained from: Elektronik Thoma GmbH, Friedhofweg 5, D-91599 Dentelein
phone ++49 9855/9777-0, fax ++49 9855/977720

Special Channel	8 MHz Channels		12 MHz Channels	Band
	Vision Carrier (MHz)	Sound Carrier (MHz)	Carrier	
S 21	303,25	308,75	303,25	Extended Special Channel Band "ESB"
S 22	311,25	316,75	315,25	
S 23	319,25	324,75	327,25	
S 24	327,25	332,75	339,25	
S 25	335,25	340,75	351,25	
S 26	343,25	348,75	363,25	
S 27	351,25	356,75	375,25	
S 28	359,25	364,75	387,25	
S 29	367,25	372,75	399,25	
S 30	375,25	380,75	411,25	
S 31	383,25	388,75	423,25	
S 32	391,25	396,75	435,25	
S 33	399,25	404,75	447,25	
S 34	407,25	412,75	459,25	
S 35	415,25	420,75		
S 36	423,25	428,75		
S 37	431,25	436,75		
S 38	439,25	444,75		
S 39	447,25	452,75		
S 40	455,25	460,75		
S 41	463,25	468,75		

Subject to alteration!



Chassis Chart of TV Receivers

Models produced from 1994/95 to 1998/99

in alphabetical order

TV Model	Chassis	Tele-Pilot®	Module Chart Page
E 55-700 TOP/LOG TV-Max	CUC 6450 (Stereo)	TP 720	2.23
E 55-700/9 TOP/LOG TV-Max	CUC 6450 (Stereo)	TP 720	2.23
E 63-911 IDTV	CUC1852 (digi 5)	TP 760	2.19
E 72-170 IDTV Elegance	CUC 1822 (digi 5)	TP 770	2.25
E 72-911 DPL	CUC 7861 (Stereo)	TP 760	2.21
E 72-911 DPL/IDTV	CUC 1861 (digi 5)	TP 770	2.25
E 72-911 IDTV	CUC1852 (digi 5)	TP 760	2.21
M 55-105 IDTV	CUC 1800 (digi 5)	TP 760	2.19
M 55-105/9 IDTV	CUC 1800 (digi 5)	TP 760	2.19
M 55-280/8 a IDTV/LOG	CUC 1806 (Basic++)	TP 800	2.33
M 55-280/8 IDTV/LOG	CUC 1805 (Basic)	TP 800	2.30
M 61-1690 DPL	CUC 6469 (Stereo)	TP 720	2.23
M 61-1690 TOP/LOG	CUC 6369 (Stereo)	TP 760	2.26
M 63-105 IDTV	CUC1822 (digi 5)	TP 760	2.19
M 63-105/9 IDTV	CUC1822 (digi 5)	TP 760	2.19
M 63-115/9 IDTV	CUC 1822 (digi 5)	TP 770	2.24
M 63-280 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.26
M 63-280/8 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.26
M 63-281 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.30
M 63-281 IDTV/LOG /from 7/98	CUC 1836 (Basic++)	TP 800	2.34
M 63-281/8 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.30
M 63-281/8 IDTV/LOG /from 7/98	CUC 1836 (Basic++)	TP 800	2.34
M 63-776/9 TOP	CUC 6365 (Stereo)	TP 720	2.24
M 63-795/9 TOP	CUC 7820 (Stereo)	TP 760	2.19
M 70-169/9 IDTV	CUC 1951 (digi 5)	TP 760	2.24
M 70-1690 DPL/IDTV	CUC 1961 (digi 5)	TP 770	2.24
M 70-1690 DPL/IDTV/LOG	CUC 1961 (digi 5)	TP 770	2.27
M 70-1690 TOP/LOG	CUC 6369 (Stereo)	TP 760	2.27
M 70-269 PALplus/LOG	CUC 1962 (digi 6)	TP 800	2.27
M 70-269/9 Referenz	CUC 1952 (digi 6)	TP 800	2.28/29
M 70-280 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.27
M 70-280/8 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.27
M 70-281 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.31
M 70-281 IDTV/LOG /from 7/98	CUC 1836 (Basic++)	TP 800	2.35
M 70-281/8 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.31
M 70-281/8 IDTV/LOG /from 7/98	CUC 1836 (Basic++)	TP 800	2.35
M 70-290 IDTV	CUC 1836 (Basic++)	TP 800	2.35
M 70-290/8 IDTV	CUC 1836 (Basic++)	TP 800	2.35
M 72-100	CUC 1826 (Basic+)	TP 800	2.31
M 72-100 a	CUC 1830 (Basic++)	TP 800	2.35
M 72-100/8	CUC 1826 (Basic+)	TP 800	2.31
M 72-100/8 a	CUC 1830 (Basic++)	TP 800	2.35
M 72-105/9 IDTV/PIP	CUC1852 (digi 5)	TP 760	2.21
M 72-115 IDTV	CUC 1852 (digi 5)	TP 770	2.25
M 72-215 IDTV/Reference	CUC 1852 (digi 5+)	TP 770	2.25
M 72-215/9 IDTV/PIP/Reference	CUC 1852 (digi 5+)	TP 770	2.25
M 72-270 IDTV/LOG Elegance	CUC 1826 (Basic+)	TP 800	2.31
M 72-315 IDTV/Reference	CUC 1852 (digi 5+)	TP 771	2.27
M 72-315/9 IDTV/PIP/Reference	CUC 1852 (digi 5+)	TP 771	2.27
M 72-410 Reference	CUC 1842 (digi 6)	TP 800	2.31
M 72-410 Reference/PIP	CUC 1842 (digi 6)	TP 800	2.31
M 72-410/9 Reference	CUC 1842 (digi 6)	TP 800	2.31
M 82-105/9 IDTV/PIP	CUC 1882 (digi 5)	TP 760	2.21
M 82-115/9 IDTV/PIP	CUC 1882 (digi 5)	TP 770	2.25
M 82-169 a PALplus	CUC 1981 (digi 4)	TP 760	2.28/29
M 82-169 PAL PLUS	CUC 1981 (digi 4)	TP 760	2.21
M 82-169/9 IDTV	CUC 1982 (digi 5)	TP 760	2.25
M 82-1690/9 TOP/LOG	CUC 6368 (Stereo)	TP 760	2.28/29
M 82-269 PALplus/LOG	CUC 1983 (digi 6)	TP 800	2.28/29
M 82-269/9 Reference	CUC 1984 (digi 6)	TP 800	2.28/29
M 84-210/8 a IDTV/LOG	CUC 1829 (Basic++)	TP 800	2.36
M 84-210/8 IDTV/LOG	CUC 1827 (Basic+)	TP 800	2.28/29
M 95-105/9 IDTV/PIP	CUC 1893 (digi 5)	TP 760	2.21

TV

TV Model	Chassis	Tele-Pilot®	Module Chart Page
M 95-115/9 IDTV/PIP	CUC 1893 (digi 5)	TP 770	2.25
M 95-410/9 Reference/PIP	CUC 1894 (digi 6)	TP 800	2.31
M 95-410/90 Reference	CUC 1894 (digi 6)	TP 800	2.28/29
M 95-411/9 Reference/PIP	CUC 1894 (digi 6)	TP 800	2.36
MW 70-100/8	CUC 1828 (Basic++)	TP 800	2.31
MW 70-269 PAL PLUS	CUC 1952 (digi 6)	TP 800	2.31
MW 70-269 PAL PLUS (with double window)	CUC 1952 (digi 6)	TP 800	2.35
MW 70-2690 NIC/TOP	CUC 2059N (Stereo)	TP 800	2.35
MW 82-100/9	CUC 1984 (digi 6)	TP 800	2.31
MW 82-100/9 (with double window)	CUC 1984 (digi 6)	TP 800	2.36
MW 82-100/9 PAL PLUS	CUC 1983 (digi 6)	TP 800	2.31
MW 82-100/9 PAL PLUS (with double window)	CUC 1983 (digi 6)	TP 800	2.36
MW 82-2690 NIC/TOP	CUC 2058N (Stereo)	TP 800	2.31
MW 82-50/8	CUC 1929 (Basic++)	TP 800	2.36
P 37-065	G 1000	TRC 1	2.23
P 37-065/5	CUC 7301 (Mono)	TP 711	2.26
P 37-070	CUC 7301 (Mono)	TP 711	2.23
P 37-071	CUC 7303 (Mono)	TP 711	2.26
P 37-080	CUC 7303 (Mono)	TP 715	2.33
P 37-3035	CUC 7303 (Mono)	TP 711	2.33
P 37-730 text	CUC 7301 (Mono)	TP 711	2.23
P 37-731 text	CUC 7303 (Mono)	TP 711	2.26
P 37-731/12 text	CUC 7305 (Mono)	TP 711	2.26
P 37-732/5 text	CUC 7303 (Mono)	TP 711	2.30
P 37-740 SAT	CUC 7300 (Mono)	TP 720	2.19
P 37-740 TOP	CUC 7300 (Mono)	TP 720	2.19
P 37-830 text	CUC 7303 (Mono)	TP 715	2.33
P 37-830/12 text Globetrotter	CUC 7305 (Mono)	TP 715	2.33
P 37-830/4 text	CUC 7303 (Mono)	TP 715	2.33
P 37-842 FR	CUC 7303 (Mono)	TP 715	2.33
P 37-843 FR	CUC 7301 F (Mono)	TP 711	2.23
P 37-845	CUC 7300 F (Mono)	TP 720	2.23
P 37-845 FR/SAT	CUC 7300 F (Mono)	TP 720	2.23
P 37-846 FR/text	CUC 7303F (Mono)	TP 711	2.33
P 37-847 FR/text	CUC 7303F (Mono)	TP 715	2.33
P 3770 text	G 1000	TRC 1	2.23
P 40-64 FR/FM/CL	CUC 6301 F (Mono)	TP FM/CL	2.23
P 40-64/4 FM/CL	CUC 6301 (Mono)	TP FM/CL	2.23
P 40-740 TOP	CUC 7300 (Mono)	TP 720	2.19
P 45-731 text	CUC 7303 (Mono)	TP 711	2.26
P 45-740 TOP	CUC 7300 (Mono)	TP 720	2.19
P 45-830 text	CUC 7303 (Mono)	TP 715	2.33
P 45-830/4 text	CUC 7303 (Mono)	TP 715	2.33
P 45-845 FR	CUC 7300 F (Mono)	TP 720	2.23
P 45-846 FR/text	CUC 7300 F (Mono)	TP 711	2.33
P 45-847 FR/text	CUC 7300 F (Mono)	TP 715	2.33
Planatron 110/1E	GFL-FL Digi	TP 800 PT	
Planatron 110/1F	GFL-FL Digi	TP 800 PT	
Planatron PW 110-520/9 PALplus	Flat 1	TP 888 PT	
ST 55-710 NIC/TOP	CUC 2020 (Stereo)	TP 715	2.33
ST 55-750 text	CUC 7350 (Stereo)	TP 720	2.23
ST 55-750/9 text	CUC 7350 (Stereo)	TP 720	2.23
ST 55-798 text	CUC 7350 (Stereo)	TP 712	2.33
ST 55-800 a text	CUC 2020 (Stereo)	TP 715	2.30
ST 55-800 a TOP	CUC 2020 (Stereo)	TP 715	2.33
ST 55-800 NIC/TOP	CUC 2020N (Stereo)	TP 715	2.33
ST 55-800 text	CUC 7350 (Stereo)	TP 712	2.30
ST 55-800/9 text	CUC 7350 (Stereo)	TP 712	2.30
ST 55-801/9 text	CUC 7350 (Stereo)	TP 712	2.33
ST 55-850 FR/TOP	CUC 2020F (Stereo)	TP 715	2.33
ST 55-850 NIC/TOP	CUC 2020N (Stereo)	TP 715	2.33
ST 55-850 TOP	CUC 2020 (Stereo)	TP 715	2.33
ST 55-876/9 text	CUC 7350 (Stereo)	TP 720	2.26
ST 55-900 FR/TOP	CUC 2020F (Stereo)	TP 715	2.33
ST 55-95 ECO	CUC 7350 (Stereo)	TP 712	2.26
ST 63-160 a IDTV	CUC 1822 (digi 5)	TP 760	2.26

TV Model	Chassis	Tele-Pilot®	Module Chart Page
ST 63-160 IDTV	CUC 1822 (digi 5)	TP 760	2.19
ST 63-255 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.26
ST 63-255/8 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.26
ST 63-270/8 IDTV /from 6/98	CUC 1836 (Basic++)	TP 800	2.34
ST 63-651/9 TOP	CUC 6360 (Stereo)	TP 720	2.19
ST 63-700 FR/TOP	CUC 2030F (Stereo)	TP 713/715	2.30
ST 63-700 NIC/TOP	CUC 2030N (Stereo)	TP 713/715	2.30
ST 63-700 text	CUC 2030 (Stereo)	TP 713/715	2.30
ST 63-705 NIC/text	CUC 2030N (Stereo)	TP 715	2.34
ST 63-710 NIC/text	CUC 2030N (Stereo)	TP 715	2.34
ST 63-720/8 text	CUC 6330 (Stereo)	TP 711	2.26
ST 63-725/8 text	CUC 6330 (Stereo)	TP 712	2.26
ST 63-750 text	CUC 6330 (Stereo)	TP 720	2.24
ST 63-750/9 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 63-755 TOP	CUC 6360 (Stereo)	TP 720	2.19
ST 63-755/9 TOP	CUC 6360 (Stereo)	TP 720	2.19
ST 63-760 TOP	CUC 5365 (Stereo)	TP 720	2.19
ST 63-760/8 TOP	CUC 5365 (Stereo)	TP 720	2.19
ST 63-760/9 DPL	CUC 7861 (Stereo)	TP 760	2.19
ST 63-761 TOP	CUC 6365 (Stereo)	TP 720	2.19
ST 63-761/9 TOP	CUC 6365 (Stereo)	TP 720	2.19
ST 63-780 NIC/TOP	CUC 2030N (Stereo)	TP 715	2.30
ST 63-780 text	CUC 2030 (Stereo)	TP 713/715	2.34
ST 63-781 IDTV	CUC1823 (digi 5)	TP 760	2.19
ST 63-800 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.26
ST 63-800/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.26
ST 70-100 IDTV	CUC 1824 (digi 5)	TP 760	2.24
ST 70-150 IDTV	CUC 1824 (digi 5)	TP 760	2.24
ST 70-155 IDTV	CUC 1824 (digi 5)	TP 760	2.20
ST 70-155/9 IDTV	CUC 1824 (digi 5)	TP 760	2.20
ST 70-160 IDTV	CUC 1824 (digi 5)	TP 760	2.24
ST 70-160/9 IDTV	CUC 1824 (digi 5)	TP 760	2.24
ST 70-200 IDTV	CUC 1836 (Basic++)	TP 800	2.34
ST 70-255 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.26
ST 70-255/8 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.26
ST 70-270 IDTV	CUC 1825 (Basic)	TP 800	2.30
ST 70-270 IDTV /from 8/98	CUC 1836 (Basic++)	TP 800	2.34
ST 70-270/8 IDTV	CUC 1825 (Basic)	TP 800	2.30
ST 70-270/8 IDTV /from 9/98	CUC 1836 (Basic++)	TP 800	2.34
ST 70-278 IDTV /from 8/98	CUC 1836 (Basic++)	TP 800	2.34
ST 70-600 text	CUC 2030 (Stereo)	TP 715	2.34
ST 70-651/9 TOP	CUC 6360 (Stereo)	TP 720	2.20
ST 70-675 TOP	CUC 5361 (Stereo)	TP 663	2.20
ST 70-700 DPL/NIC/FT	CUC 2040N (Stereo)	TP 715	2.30
ST 70-700 FR/TOP	CUC 2030F (Stereo)	TP 713/715	2.30
ST 70-700 FR/TOP	CUC 2030F (Stereo)	TP 713/715	2.34
ST 70-700 NIC/TOP	CUC 2030N (Stereo)	TP 713/715	2.35
ST 70-700 text	CUC 2030 (Stereo)	TP 713/715	2.35
ST 70-705 NIC/text	CUC 2030N (Stereo)	TP 715	2.35
ST 70-705 TOP	CUC 6360 (Stereo)	TP 720	2.20
ST 70-705/8 text	CUC 6330 (Stereo)	TP 712	2.26
ST 70-705/9 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 70-705/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.26
ST 70-710 NIC/text	CUC 2030N (Stereo)	TP 715	2.35
ST 70-715 NIC/TOP	CUC 2030N (Stereo)	TP 715	2.35
ST 70-720/8 text	CUC 6330 (Stereo)	TP 712	2.26
ST 70-725/8 text	CUC 6330 (Stereo)	TP 712	2.27
ST 70-728 text	CUC 6330 (Stereo)	TP 712	2.27
ST 70-745 text	CUC 6330 (Stereo)	TP 720	2.24
ST 70-750 text	CUC 6330 (Stereo)	TP 720	2.24
ST 70-750/9 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 70-755 SAT	CUC 6360 (Stereo)	TP 720	2.20
ST 70-755 TOP	CUC 6360 (Stereo)	TP 720	2.20
ST 70-755 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.24
ST 70-755/9 DPL	CUC 6460 (Stereo)	TP 720	2.24
ST 70-755/9 DPL/LOG	CUC 6460 (Stereo)	TP 720	2.27

TV Model	Chassis	Tele-Pilot®	Module Chart Page
ST 70-755/9 TOP	CUC 6360 (Stereo)	TP 720	2.20
ST 70-755/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.24
ST 70-760 TOP/LOG	CUC 6361 (Stereo)	TP 720	2.27
ST 70-770 text	CUC 6330 (Stereo)	TP 712	2.30
ST 70-778 text	CUC 6330 (Stereo)	TP 712	2.30
ST 70-780 FR/TOP	CUC 2030F (Stereo)	TP 713/715	2.30
ST 70-780 NIC/TOP	CUC 2030N (Stereo)	TP 715	2.30
ST 70-780 text	CUC 2030 (Stereo)	TP 715	2.30
ST 70-788	CUC 2030 (Stereo)	TP 715	2.35
ST 70-798 text	CUC 2030 (Stereo)	TP 715	2.35
ST 70-800 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.27
ST 70-800/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.27
ST 70-810 DPL	CUC 2050N (Stereo)	TP 800	2.35
ST 70-819 NIC/TOP	CUC 2050N (Stereo)	TP 800	2.35
ST 70-850 NIC/PIP	CUC 2050N (Stereo)	TP 800	2.35
ST 70-860 FR/TOP	CUC 2030F (Stereo)	TP 715	2.35
ST 70-869 IDTV	CUC 1825 (Basic)	TP 800	2.27
ST 70-907 text	CUC 5360 (Stereo)	TP 720	2.20
ST 70-94 text	CUC 5360 (Stereo)	TP 720	2.20
ST 70-95 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 70-97 IDTV	CUC 1825 (Basic)	TP 771	2.30
ST 7004	CUC 6360 (Stereo)	TP 720	2.20
ST 7004/9	CUC 6360 (Stereo)	TP 720	2.20
ST 72-01 IDTV	CUC 1826 (Basic+)	TP 800	2.35
ST 72-160/9 IDTV	CUC 1822 (digi 5)	TP 760	2.20
ST 72-161 IDTV	CUC 1822 (digi 5)	TP 760	2.24
ST 72-161/9 IDTV	CUC 1822 (digi 5)	TP 760	2.24
ST 72-261 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.27
ST 72-261/8 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.27
ST 72-700 TOP	CUC 2051N (Stereo)	TP 800	2.36
ST 72-760 MD/TOP	CUC 5365 (Stereo)	TP 720	2.20
ST 72-760 text	CUC 6331 (Stereo)	TP 720	2.28/ 29
ST 72-760/8 text	CUC 6331 (Stereo)	TP 720	2.28/ 29
ST 72-760/9 DPL	CUC 7861 (Stereo)	TP 760	2.20
ST 72-761 SAT	CUC 6365 (Stereo)	TP 720	2.24
ST 72-761 TOP	CUC 6365 (Stereo)	TP 720	2.20
ST 72-761/9 TOP	CUC 6365 (Stereo)	TP 720	2.20
ST 72-762 TOP	CUC 6365 (Stereo)	TP 720	2.24
ST 72-762/9 TOP	CUC 6365 (Stereo)	TP 720	2.24
ST 72-764 MD/SAT	CUC 7820 (Stereo)	TP 720	2.21
ST 72-860 FR/TOP	CUC 2031F (Stereo)	TP 800/715	2.31
ST 72-860 NIC/TOP	CUC 2031N (Stereo)	TP 800	2.31
ST 72-860 TOP	CUC 2031 (Stereo)	TP 800	2.31
ST 72-865 NIC/TOP	CUC 2031N (Stereo)	TP 800	2.31
ST 84-796/9 TOP/LOG	CUC 6380 (Stereo)	TP 720	2.25
ST 84-896 FR/TOP	CUC 2080F (Stereo)	TP 800	2.36
ST 84-896 NIC/TOP	CUC 2080N (Stereo)	TP 800	2.36
T 51-070	CUC 7301 (Mono)	TP 711	2.26
T 51-071	CUC 7303 (Mono)	TP 711	2.30
T 51-3035 text	CUC 7303 (Mono)	TP 711	2.33
T 51-711 text	CUC 7301 (Mono)	TP 711	2.23
T 51-720 text	CUC 7303 (Mono)	TP 711/715	2.33
T 51-730 text	CUC 7301 (Mono)	TP 711	2.23
T 51-730/5 text	CUC 7301 (Mono)	TP 711	2.23
T 51-731 text	CUC 7303 (Mono)	TP 711	2.26
T 51-732/5 text	CUC 7303 (Mono)	TP 711	2.26
T 51-846 FR/text	CUC 7303F (Mono)	TP 711	2.33
T 55-3035	CUC 7303 (Mono)	TP 711	2.34
T 55-3035 text	CUC 7303 (Mono)	TP 711	2.34
T 55-64 FR/FM/CL	CUC 6301 F (Mono)	TP FM/CL	2.23
T 55-64/4 FM/CL	CUC 6301 (Mono)	TP FM/CL	2.23
T 55-645 text	G 1000	TRC 1	2.23
T 55-730 text	CUC 7301 (Mono)	TP 711	2.23
T 55-730/5 text	CUC 7301 (Mono)	TP 711	2.23
T 55-731 a text	CUC 7303 (Mono)	TP 711/715	2.34
T 55-731 text	CUC 7303 (Mono)	TP 711	2.26

TV Model	Chassis	Tele-Pilot®	Module Chart Page
T 55-732/5 text	CUC 7303 (Mono)	TP 711	2.26
T 55-740 SAT	CUC 7300 (Mono)	TP 720	2.19
T 55-740 TOP	CUC 7300 (Mono)	TP 720	2.19
T 55-830 text	CUC 7303 (Mono)	TP 715	2.34
T 55-830/4 text	CUC 7303 (Mono)	TP 715	2.34
T 55-840 TOP/SAT	CUC 2003 (Mono)	TP 715	2.34
T 55-842 FR	CUC 7303F (Mono)	TP 715	2.34
T 55-843 FR	CUC 7301 F (Mono)	TP 711	2.26
T 55-845 FR	CUC 7300 F (Mono)	TP 720	2.23
T 55-846 FR/text	CUC 7303F (Mono)	TP 711	2.34
T 55-847 FR/text	CUC 7303F (Mono)	TP 715	2.34
T 5570 text	G 1000 (Mono)	TRC 1	2.23
T 70-740 text	CUC 6310 (Mono)	TP 720	2.24
T 70-740/4 TOP	CUC 6310 (Mono)	TP 720	2.24
T 70-843 FR	CUC 6310 F (Mono)	TP 720	2.27
TVR 3701 SV	1 Tuner (Mono)	TVP 762	
TVR 3705	1 Tuner (Mono)	TVP 763	
TVR 3710	1 Tuner (Mono)	TVP 762	
TVR 3720	2 Tuner (Mono)	TVP 763	
TVR 3730 text (version 1)	2 Tuner (Mono)	TVP 763	
TVR 3730 text (version 2)	2 Tuner (Mono)	TVP 763	
TVR 5100	1 Tuner (Mono)	TVP 762/763	
TVR 5100 (version 3)	1 Tuner (Mono)	TVP 762	
TVR 5130 text (version 1)	2 Tuner (Mono)	TVP 763	
TVR 5130 text (version 2)	2 Tuner (Mono)	TVP 763	
TVR 5500	2 Tuner (Mono)	TVP 762/860	
TVR 5530 text (version 1)	2 Tuner (Mono)	TVP 860	
TVR 5530 text (version 2)	2 Tuner (Mono)	TVP 860	
XS 55/1	CUC 7350 (Stereo)	TP 720	2.25
XS 55/9	CUC 7350 (Stereo)	TP 720	2.25
XS 63/1	CUC 6360 (Stereo)	TP 720	2.22
XS 63/2	CUC 6330 (Stereo)	TP 720	2.25
XS 63/61	CUC 6330 (Stereo)	TP 712	2.28/ 29
XS 63/9	CUC 6360 (Stereo)	TP 720	2.22
XS 70/1	CUC 6360 (Stereo)	TP 720	2.22
XS 70/81	CUC 6330 (Stereo)	TP 712	2.28/ 29
XS 70/9	CUC 6360 (Stereo)	TP 720	2.22

Chassis Chart of City Line / Super Elite TV Receivers

Models produced from 1994/95 to 1998/99

in alphabetical order

TV Model	Chassis	Tele-Pilot®	Module Chart Page
Athen T 755 TOP	CUC 7300 (Stereo)	TP 720	2.22
Atlanta 72/9 IDTV ST 172/9	CUC 1822 (digi 5)	TP 760	2.22
Atlanta SE 7220 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.32
Atlanta SE 7220 IDTV/PIP	CUC 1830 (Basic++)	TP 900	2.36
Atlanta SE 7289 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.28/29
Berlin SE 70-100/8	CUC 1828 (Basic++)	TP 900	2.32
Berlin SE 7027/8 PIP	CUC 1828 (Basic++)	TP 900	2.36
Berlin SE 7290 IDTV/LOG	CUC 1822 (digi 5)	TP 771	2.28/29
Boston SE 7090 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.32
Boston SE 7090/8 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.32
Boston ST 170 IDTV	CUC 1824 (digi 5)	TP 760	2.25
Boston ST 270 IDTV/LOG	CUC 1825 (Basic)	TP 900	2.28/29
Boston ST 270/8 IDTV/LOG	CUC 1825 (Basic)	TP 900	2.28/29
Copenhagen ST 763 TOP	CUC 6360 (Stereo)	TP 720	2.22
Copenhagen ST 763 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.28/29
Copenhagen ST 763/9 TOP	CUC 6360 (Stereo)	TP 720	2.22
Denver SE 82-100 PALplus	CUC 1984 (digi 6)	TP 900	2.32
Denver SE 82-100 PALplus (with double window)	CUC 1984 (digi 6)	TP 900	2.36
Denver SE 8216/9 PALplus	CUC 1984 (digi 6)	TP 900	2.32
Denver SE 8216/9 PIP Reference	CUC 1984 (digi 6)	TP 900	2.28/29
Greenville 37 SP 737 text	CUC 7350 (Stereo)	TP 720	2.25
Greenville 370 SE 3780 text	CUC 7303 (Mono)	TP 715	2.36
Greenville 55 T 5574 TOP	CUC 7300 (Mono)	TP 720	2.25
Greenville 550 SE 5586 TOP	CUC 2020 (Stereo)	TP 715	2.36
Greenville 70 ST 1770 TOP	CUC 6360 (Stereo)	TP 720	2.25
Greenville 7002 text	CUC 6330 (Stereo)	TP 900	2.28/29
Greenville 7002/8 text	CUC 6330 (Stereo)	TP 900	2.28/29
Greenville 7003 NIC/TOP	CUC 2030N (Stereo)	TP 900	2.32
Greenville 7003 text	CUC 2030 (Stereo)	TP 900	2.32
Greenville 7004 NIC/TOP	CUC 2050 (Stereo)	TP 900	2.36
Hamburg ST 770/9 TOP	CUC 6360 (Stereo)	TP 720	2.25
Helsinki P 642 text	CUC 6300 (Mono)	TP 720	2.22
Lissabon SE 5576 text	CUC 7350 (Stereo)	TP 720	2.28/29
Melbourne SE 7210 a NIC/TOP	CUC 2051N (Stereo)	TP 900	2.36
Melbourne SE 7210 NIC/TOP	CUC 2031N (Stereo)	TP 900	2.32
Melbourne SE 7210 TOP	CUC 2031 (Stereo)	TP 900	2.32
Miami SE 3780 text	CUC 7303 (Mono)	TP 715	2.36
Salzburg ST 770 TOP	CUC 6360 (Stereo)	TP 720	2.22
SE 5574 TOP	CUC 7300 (Mono)	TP 720	2.22
SE 6376 TOP	CUC 6360 (Stereo)	TP 720	2.22
SE 6376 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.28/29
SE 7087 TOP	CUC 6360 (Stereo)	TP 720	2.22
SE 7088 IDTV	CUC 1824 (digi 5)	TP 760	2.25
SE 7089 IDTV/LOG	CUC 1825 (Basic)	TP 900	2.28/29
SE 7287 TOP	CUC 6365 (Stereo)	TP 720	2.22
SE 7288/9 IDTV	CUC 1852 (digi 5)	TP 760	2.22
Sydney 100 SE 7020 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.32
Sydney 100 SE 7020 IDTV/LOG /from 6/98	CUC 1836 (Basic++)	TP 900	2.36
Sydney 100 SE 7021 IDTV/PIP	CUC 1836 (Basic++)	TP 900	2.36
Sydney 100/8 SE 7020/8 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.32
Sydney 100/8 SE 7020/8 IDTV/LOG /from 6/98	CUC 1836 (Basic++)	TP 900	2.36
Sydney 72 ST 1772 TOP	CUC 6365 (Stereo)	TP 720	2.22
Sydney 72 ST 1772/9 TOP	CUC 6365 (Stereo)	TP 720	2.22
Sydney 72 ST 772/8 TOP	CUC 5365 (Stereo)	TP 720	2.22
Sydney ST 872/8 text	CUC 6331 (Stereo)	TP 900	2.28/29
Tivoli T 655 TOP	CUC 5301 (Mono)	TP 623	2.22
Trento SE 7016/9 PIP Reference	CUC 1952 (digi 6)	TP 900	2.28/29
Trento SE 7026 PAL PLUS	CUC 1952 (digi 6)	TP 900	2.32
Wien 100 SE 6320 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.32
Wien 100 SE 6320 IDTV/LOG /from 6/98	CUC 1836 (Basic++)	TP 900	2.36

Module Chart of 1994/1995 Television Receivers

Designation	Part No.	P 37-740 SAT	P 37-740 TOP	P 40-740 TOP	P 45-740 TOP	T 55-740 TOP	T 55-740 SAT	M 55-105 IDTV	M 55-105/9 IDTV	ST 63-160 IDTV	ST 63-651/9 TOP	ST 63-755 TOP	ST 63-755/9 TOP	ST 63-760 TOP	ST 63-760/8 TOP	ST 63-760/9 DPL	ST 63-761 TOP	ST 63-761/9 TOP	ST 63-781 IDTV	M 63-795/9 TOP	E 63-911 IDTV	M 63-105 IDTV	M 63-105/9 IDTV	
Tuning Module	29504 103 5700																							
Tuning Module	29504 103 6300							•	•															
Tuning Module	29504 103 7100/ 7700 1)										•	•	•							•				•
Tuning Module	29504 103 7400																							
Display	29501 080 5900																					•		
Keyboard Control	29501 080 3900																							
Keyboard Control	29501 080 5000								•															
Keyboard Control	29501 080 5200																•							
Keyboard Control	29501 080 6300																				•			
Keyboard Control	29501 080 6500																						•	•
Keyboard Control	29501 080 6700											•	•											
Keyboard Control	29501 080 7100																							
Keyboard Control	29501 080 7800									•									•	•				
Keyboard Control	29501 080 8500																							
CRT Panel	29305 022 1100	•	•	•																				
CRT Panel	29305 022 1200				•	•	•																	
CRT Panel	29305 022 2200							•	•															
CRT Panel	29305 022 2600																•							
CRT Panel	29305 022 8900																							
CRT Panel	29305 022 3800																					•	•	•
CRT Panel	29305 022 3900																							
CRT Panel	29305 022 4400																							
CRT Panel	29305 022 7500																							
EURO-AV Socket Board	29305 160 0500							•	•															
EURO-AV Socket Board	29305 160 0600									•														
EURO-AV Socket Board	29304 060 3200																							
EURO-AV Socket Board	29304 060 3300																							
Colour/RGB (PAL/SECAM)	29504 105 5400																							
Colour-Sync	29504 105 5600																							
Colour-Sync	29504 165 6100																							
Colour-Sync	29504 165 6700/ 6800 2)																							
Feature Box	29504 103 3200																							
Velocity Modulation	29305 108 0300																							
Tuner	29504 101 2200																							
Tuner	29504 201 0100																							
Tuner	29504 201 2100	•	•	•	•	•	•																	
AF-Amplifier	29504 104 2600																							
AF-Amplifier	29504 104 2800																							
AF-Amplifier	29504 104 6300																							
AF-Amplifier	29504 104 6600																							
East/West	29504 107 8800																							
East/West	29504 107 9000																							
SAT Module	29504 106 2300	•																						
SAT-Tuner	29504 201 7300	•																						
Video Module	29504 165 6300/ 6600																							
Teletext VT 5336	29504 108 7600																							
Teletext VT 5336 VPS	29504 108 8600																							
IF-Stereo	29504 102 3000																							
IF-Stereo	29504 102 3300																							
IF-Stereo	29504 102 5600																							
IF-Stereo (EURO-Multi 8)	29504 162 4100																							
IF-Stereo (CUC 7...)	29504 162 4300																							
IF-Stereo (CUC 7...)	29504 162 4600																							
IF-Stereo Multi	29504 162 5600																							

1) Tuning Module 103 7700 can only be used with Colour-Sync 29504 165 6800.

2) Colour-Sync 165 6800 can only be used with Tuning Module 29504 103 7700.

Module Chart of 1994/1995 Television Receivers

Designation	Part No.	ST 7004	ST 7004/9	ST 70-94 text	ST 70-155 IDTV	ST 70-155/9 IDTV	ST 70-907 text	ST 70-85/9 TOP	ST 70-705 TOP	ST 70-755 TOP	ST 70-755/9 TOP	ST 70-755 SAT	ST 72-160/9 IDTV	ST 72-760 MD/TOP	ST 72-760/9 DPL	ST 72-761 TOP	ST 72-761/9 TOP
		Tuning Module	29504 103 5700														
Tuning Module	29504 103 6300/ 6500																
Tuning Module	29504 103 7100/ 7700 1)	•	•					•	•	•	•	•					
Tuning Module	29504 103 7400																
Keyboard Control	29501 080 0200			•			•										
Keyboard Control	29501 080 5000																
Keyboard Control	29501 080 6700									•	•	•	•				
Keyboard Control	29501 080 7100							•									
Keyboard Control	29501 080 7200	•	•														
Keyboard Control	29501 080 7500						•										
Keyboard Control	29501 080 7800																
CRT Panel	29305 022 2400																
CRT Panel	29305 022 2600																
CRT Panel	29305 022 3100																
CRT Panel	29305 022 3700																
CRT Panel	29305 022 4200																
CRT Panel	29305 022 4400	•	•														
CRT Panel	29305 022 7400																
CRT Panel	29305 022 7500																
EURO-AV Socket Board	29304 060 3200																
EURO-AV Socket Board	29305 160 0500																
EURO-AV Socket Board	29305 160 0600																
Colour/RGB (PAL/CTI)	29504 105 4900																
Colour/RGB (PAL/SECAM)	29504 105 5400																
Colour-Sync	29504 105 5600	•															
Colour-Sync	29504 165 6100																
Colour-Sync	29504 165 6700/6800 2)																
Feature Box	29504 103 3200																
Cable Tuner	29504 101 2200																
Cable Tuner	29504 201 0100																
Cable Tuner	29504 201 2100	•	•														
Seagull Correction Board	29304 019 9500																
AF-Amplifier	29504 104 2600																
AF-Amplifier	29504 104 5600																
AF-Amplifier	29504 104 6500																
East/West	29504 107 8800																
East/West	29504 107 9300																
SAT Module	29504 106 2200																
TV-SAT Tuner	29504 201 7300																
Video	29504 165 6300/ 6600																
Teletext VT 5336	29504 108 7600																
Teletext VT 5336 VPS	29504 108 8600																
IF-Stereo	29504 102 1800																
IF-Stereo	29504 102 3000																
IF-Stereo	29504 102 3300																
IF-Stereo	29504 102 5600	•															
IF-Stereo (EURO-Multi 8)	29504 162 4100																
IF-Stereo (CUC 7...)	29504 162 4300																
IF-Stereo (CUC 7...)	29504 162 4600																
IF-Stereo (Multi)	29504 162 5600	•															

1) Tuning Module 103 7700 can only be used with Colour-Sync 29504 165 6800.

2) Colour-Sync 165 6800 can only be used with Tuning Module 29504 103 7700.

Module Chart of 1994/1995 Television Receivers

Designation	Part No.						
		ST 72-764 MD/SAT	M 72-105/9 IDTV/PIP	E 72-911 DPL	E 72-911 IDTV	M 82-105/9 IDTV/PIP	M 95-105/9 IDTV/PIP
Tuning Module	29504 103 5200	●					
Display	29501 080 5900				●		
Display	29501 080 6000			●			
Display	29501 080 6900					●	●
Keyboard Control	29501 080 7000					●	
Keyboard Control	29501 080 4500	●					
Keyboard Control	29501 080 3000		●				
CRT Panel	29305 022 2600			●			
CRT Panel	29305 022 2800	●					
CRT Panel	29305 022 3100		●		●		
CRT Panel	29305 022 3400					●	
CRT Panel	29305 022 3500						●
CRT Panel	29305 022 8400					●	
EURO-AV Socket Board	29304 060 3200			●			
EURO-AV Socket Board	29304 060 9300					●	
EURO-AV Socket Board	29305 160 0100	●					
EURO-AV Socket Board	29305 160 0500						
EURO-AV Socket Board	29305 160 0600				●	●	●
Colour-Sync	29504 165 6100	●		●			
Feature Box	29504 103 3200		●		●	●	●
Feature Box	29504 103 3300						●
Velocity Modulation	29305 108 0100			●			
Velocity Modulation	29305 108 0300		●				
Velocity Modulation	29305 108 0400						●
Cable Tuner	29504 101 2200	●		●			
Cable Tuner	29504 101 2500						●
Cable Tuner	29504 201 0100		●		●	●	●
Seagull Correction Board	29304 019 9500	●					
AF-Amplifier	29504 104 5600	●					
AF-Amplifier	29504 104 6200		●			●	●
AF-Amplifier	29504 104 6300				●		
AF-Amplifier	29504 104 6500			●			
AF-Amplifier	29504 104 7000					●	
East/West	29504 107 8800		●		●		
East/West	29504 107 9100					●	
East/West	29504 107 9200						●
PIP Colour (Multi)	29504 165 9400		●			●	
SAT Module	29504 106 2100		●				
TV-SAT Tuner	29504 201 6100	●					
Video	29504 105 7200						●
Video	29504 165 6300/ 6600		●		●	●	●
IF-Stereo	29504 102 3300	●					
IF-Stereo (CUC 7...)	29504 162 4300		●				
IF-Stereo (CUC 7...)	29504 162 4600			●	●	●	●
IF-Stereo	29504 162 4700					●	

Module Chart of 1994/1995 Television Receivers

Designation	Part No.	Helsinki P 642 text	Tivoli T 655 TP	Athen T 755 TOP	Copenhagen ST 763 TOP	Copenhagen ST 763/9 TOP	Salzburg ST 770 TOP	Sydney 72 ST 772/8 TOP	Sydney 72 ST 1772 TOP	Sydney 72 ST 1772/9 TOP	Atlanta 72/9 IDTV ST 172/9 IDTV	SE 5574 TOP	SE 6376 TOP	SE 7087 TOP	SE 7287 TOP	SE 7288/9 IDTV	XS 63/1	XS 63/9	XS 70/1	XS 70/9
Tuning Module	29504 103 7100/ 7700 1)																			
Tuning Module	29504 103 7400				•	•		•	•				•	•						
Keyboard Control	29501 080 4400	•																		
Keyboard Control	29501 080 4600																			
Keyboard Control	29501 080 6100															•				
Keyboard Control	29501 080 7200				•	•												•	•	•
Keyboard Control	29501 080 7300				•	•							•	•						
Keyboard Control	29501 080 7400						•													
Keyboard Control	29501 080 7900							•	•											
Keyboard Control	29501 080 8000														•					
CRT Panel	29305 022 0100		•																	
CRT Panel	29305 022 1200			•									•							
CRT Panel	29305 022 0700	•																		
CRT Panel	29305 022 2400							•												
CRT Panel	29305 022 3700										•						•			
CRT Panel	29305 022 4400			•	•	•							•	•	•		•	•	•	•
CRT Panel	29305 022 7500							•	•						•					
EURO-AV Socket Board	29305 160 0500									•	•					•				
Colour/RGB (PAL)	29504 105 1500		•																	
Colour/RGB (Multi)	29504 165 5400							•												
Colour-Sync	29504 105 5600				•	•		•					•	•	•		•		•	
Colour-Sync	29504 165 6700/ 6800 2)				•			•										•		•
Feature Box	29504 103 3200																•			
Velocity Modulation	29305 108 0300																			
Cable Tuner	29504 101 2200		•					•												
Cable Tuner	29504 201 0100	•																		
Cable Tuner	29504 201 2100			•	•	•		•	•				•	•	•		•	•	•	•
Seagull Correction Board	29304 019 9500							•	•	•					•					
Seagull Correction Board	29304 019 9700							•	•	•							•	•	•	•
AF-Amplifier	29504 104 2600																			
East/West	29504 107 8900																			
Video	29504 165 6300/ 6600																			
IF-Stereo	29504 102 2500		•																	
IF-Stereo	29504 102 5600			•	•			•					•	•	•		•		•	
ZF Stereo (EURO- Multi 8)	29504 162 4100							•												
IF-Stereo (CUC 7...)	29504 162 4600																			
IF-Stereo (Multi)	29504 162 5600				•					•									•	•

1) Tuning Module 103 7700 can only be used with Colour-Sync 29504 165 6800.

2) Colour-Sync 165 6800 can only be used with Tuning Module 29504 103 7700.

Module Chart of 1995/1996 Television Receivers

Designation	Part No.																											
		P 37-065	P 37-065/5	P 37-070	P 37-730 text	P 3770 text	P 37-843 FR	P 37-845 FR	P 37-845 FR/SAT	P 40-64/4 FM/CL	P 40-64 FR/FM/CL	P 45-845 FR	T 51-711 text	T 51-730 text	T 51-730/5 text	T 55-64/4 FM/CL	T 55-64 FR/FM/CL	T 55-64/5 text	T 5570 text	T 55-730 text	T 55-730/5 text	T 55-845 FR	ST 55-750 text	ST 55-750/9 text	IE 55-700 TOP/LOG TV-MAX	IE 55-700/9 TOP/LOG TV-MAX	M 61-1690 DPL	
Tuning Module	29504 103 8000																											
Tuning Module	29504 103 9500																											
CRT Panel	29305 022 0700																											
CRT Panel	29305 022 1100																											
CRT Panel	29305 022 1200																											
CRT Panel	29305 022 1400																											
CRT Panel	29305 022 1500																											
CRT Panel	29305 022 7800																											
CRT Panel	29305 122 0200																											
CRT Panel	29305 122 0300																											
Colour-Sync	29504 105 6700																											
Colour-Sync	29504 165 6700																											
Colour Sync	29504 165 7200																											
Velocity Modulation	29305 108 0600																											
AF-Amplifier	29504 104 6700																											
AF-Amplifier-DPL	29504 104 6900																											
SAT Module	29504 106 2300																											
Tuner	29504 201 0100																											
Tuner	29504 201 2100																											
Tuner	29504 201 3100																											
Tuner	75990 200 5400																											
Tuner-SAT	29504 201 7300																											
Teletext	29504 108 3900																											
IF-Amplifier	29504 102 4000																											
IF-Amplifier	29504 102 5600																											
IF-Amplifier	29504 162 3900																											
IF-Amplifier	29504 162 5600/ 5700																											
IF/FM-Stereo	29504 002 3200																											
IF/FM-Stereo	29504 042 3100																											

1) optionally fitted

Module Chart of 1995/1996 Television Receivers

Designation	Part No.	M 63-115/9 IDTV	M 63-776/9 TOP	ST 63-750 text	ST 63-750/9 TOP	T 70-740 text	T 70-740/4 TOP	ST 70-100 IDTV	ST 70-150 IDTV	ST 70-160 IDTV	ST 70-160/9 IDTV	ST 70-705 TOP	ST 70-705/9 TOPILOG	ST 70-745 text	ST 70-750 text	ST 70-750/9 TOP	ST 70-755 TOPILOG	ST 70-755/9 DPL	ST 70-755/9 TOPILOG	ST 70-95 TOP	M 70-169/9 IDTV	M 70-1690 DPL/IDTV	ST 72-761 SAT	ST 72-762 TOP	ST 72-762/9 TOP
Tuning Module	29504 003 6500	●																							
Tuning Module	29504 103 9300							●	●	●	●												●		
Tuning Module	29504 103 6800																					●			
Tuning Module	29504 103 7100/ 8100				●							●				●									
Tuning Module	29504 103 7400/ 8400		●																		●		●	●	●
Tuning Module	29504 103 9500																	●							
Tuning Module	29504 103 8700												1)				1)		1)						
Tuning Module	29504 003 8100												1)				1)		1)						
Display	29501 080 9400																					●			
CRT Panel	29305 022 3600																					●			
CRT Panel	29305 022 3700							●	●	●	●											●			
CRT Panel	29305 022 3900	●																							
CRT Panel	29305 022 4400			●								●	●			●	●	●	●	●					
CRT Panel	29305 022 7500		●																				●	●	●
CRT Panel	29305 122 0500		●	●	●	●	●						●	●								●	●	●	●
EURO-AV Socket Board	29305 160 0500	●						●	●	●	●												●	●	●
EURO-AV Socket Board	29305 160 0600																					●	●	●	●
Colour Sync	29504 105 5600											●									●				
Colour Sync	29504 105 6700															●									●
Colour Sync	29504 165 6700		●	●	●							●				●									●
Feature Box	29504 103 3200	●						●	●	●	●												●	●	●
Feature Box	29504 103 3500																					●	●	●	●
Velocity Modulation	29305 108 0500	●																				●	●	●	●
Seagull Correction Board	29304 019 9700																					●	●	●	●
AF-Amplifier	29504 104 2600							●	●	●	●												●	●	●
AF-Amplifier	29504 104 2800	●																							
AF-Amplifier	29504 104 5600																						●	●	●
AF-Amplifier	29504 104 6300																					●	●	●	●
AF-Amplifier DPL	29504 104 6800																						●	●	●
AF-Amplifier DPL	29504 104 6900																	●							
East/West	29504 107 6200																					●	●	●	●
East/West	29504 107 6500	●																							
East/West	29504 107 8900																						●	●	●
East/West	29504 107 9300							●	●	●	●														
SAT Module	29504 106 2200																							●	●
Tuner	29504 201 0100	●			●	●	●	●	●	●	●											●	●	●	●
Tuner	29504 201 2100		●	1)	●							●	●	1)	1)	●	●	●	●	●	●		●	●	●
Tuner	29504 201 3100			1)										1)	1)									●	●
Tuner-SAT	29504 201 7300													1)	1)								●	●	●
Video	29504 165 6400	●																							
Video	29504 165 7300							●	●	●	●											●	●	●	●
IF-Amplifier	29504 102 3300							●	●	●	●												●	●	●
IF-Amplifier	29504 102 5600											●					●				●			●	●
IF-Amplifier	29504 102 5700			●									●	●											
IF-Amplifier	29504 162 4600	●									●											●			
IF-Amplifier	29504 162 4800																					●			
IF-Amplifier	29504 162 5600/ 5700	●	●									●				●	●	●				●			●

1) optionally fitted

Module Chart of 1995/1996 Television Receivers

Designation	Part No.	ST 72-161/9 IDTV	M 72-115 IDTV	M 72-215 IDTV/Referenz	M 72-215/9 IDTV/PIP/Referenz	E 72-170 IDTV Eleganz	E 72-911 DPL/IDTV	M 82-169/9 IDTV	ST 84-796/9 TOP/LOG	M 95-115/9 IDTV/PIP	SP 737 hex GREENVILLE 37	T 5574 TOP GREENVILLE 55	ST 770 TOP/LOG SALZBURG	ST 770/9 TOP HAMBURG	ST 1770 TOP GREENVILLE 70	ST 170 IDTV Boston	SE 7088 IDTV	XS 55/1	XS 55/9	XS 63/2	
Tuning Module	29504 003 8100/ 8700																				
Tuning Module	29504 003 6500																				
Tuning Module	29504 103 7400/ 8400																				
Tuning Module	29504 103 9300																				
Keyboard Control	29501 080 2100																				
Keyboard Control	29501 080 9700																				
Keyboard Control	29501 080 8200																				
Keyboard Control	29501 082 1900																				
CRT Panel	29305 022 1200																				
CRT Panel	29305 022 3100																				
CRT Panel	29305 022 3500																				
CRT Panel	29305 022 3600																				
CRT Panel	29305 022 3700																				
CRT Panel	29305 022 4400																				
CRT Panel	29305 022 7700																				
CRT Panel	29305 122 0200																				
CRT Panel	29305 122 0500																				
CRT Panel	29305 122 0600																				
EURO-AV Socket Board	29305 160 0500																				
EURO-AV Socket Board	29305 160 0600																				
Colour-Sync	29504 105 5600																				
Colour-Sync	29504 105 6700																				
Colour-Sync Multi	29504 165 6700																				
Colour-Sync	29504 165 7000																				
Feature Box	29504 103 3200																				
Feature Box	29504 103 3500																				
Feature Box	29504 103 3600																				
Velocity Modulation	29305 108 0500																				
Seagull Correction Board	29304 019 9700																				
AF-Amplifier	29504 104 2600																				
AF-Amplifier	29504 104 5600																				
AF-Amplifier	29504 104 6300																				
AF-Amplifier DPL	29504 104 6800																				
East/West	29504 107 6200																				
East/West	29504 107 6400																				
East/West	29504 107 6700																				
East/West	29504 107 8800																				
East/West	29504 107 8900																				
East/West	29504 107 9300																				
PIP Colour-Multi	29504 165 9400																				
Tuner	29504 201 0100																				
Tuner	29504 201 2100																				
Tuner	29504 201 3100																				
Video	29504 165 6400																				
Video	29504 165 7100																				
Video	29504 165 7300																				
IF-Amplifier	29504 102 3300																				
IF-Amplifier	29504 102 5600																				
IF-Amplifier	29504 102 5700																				
IF-Amplifier	29504 162 4600																				
IF-Amplifier	29504 162 4800																				
IF-Amplifier	29504 162 5600/ 5700																				
IF-Amplifier	29504 102 4000																				
IF-Amplifier	29504 162 3900																				

1) optionally fitted

TV

Module Chart of 1996/1997 Television Receivers

Designation	Part No.																												
		P 37-065/5	P 37-071	P 37-731 text	P 37-731/12 text	P 37-843 a FR	P 45-731 text	T 51-070	T 51-731 text	T 51-732/5 text	T 55-731 text	T 55-732/5 text	T 55-843 FR	ST 55-876/9 text	ST 55-95 ECO	M 61-1690 TOP/LOG	ST 63-160 a IDTV	ST 63-255 IDTV/LOG	ST 63-255/8 IDTV/LOG	M 63-280 IDTV/LOG	M 63-280/8 IDTV/LOG	ST 63-720/8 text	ST 63-725/8 text	ST 63-800 TOP/LOG	ST 63-800/9 TOP/LOG	ST 70-255 IDTV/LOG	ST 70-255/8 IDTV/LOG	ST 70-705/8 text	
Tuning Module	29504 003 8100																												
Tuning Module	29504 003 9500																												
Tuning Module	29504 103 8700																												
Tuning Module	29504 103 9300																												
CRT Panel	29305 022 1400	•	•	•	•																								
CRT Panel	29305 022 1500					•	•																						
CRT Panel	29305 022 1600						•																						
CRT Panel	29305 022 1700						•	•																					
CRT Panel	29305 022 3900								•																				
CRT Panel	29305 022 4400																												
CRT Panel	29305 022 7800																												
CRT Panel	29305 122 0400																												
CRT Panel	29305 122 0500																												
EURO-AV Socket Board	29304 160 0600																												
Colour-Sync	29504 105 6700																												
Colour-Sync	29504 165 6700																												
Colour-Sync	29504 165 7400																												
Feature Box	29504 103 3200																												
Feature Box	29504 103 3700																												
Velocity Modulation	29305 108 0600																												
AF-Amplifier	29504 104 2800																												
East/West	29504 107 6400																												
Signal Module	29504 102 3400																												
Signal Module (Multi)	29504 162 3400																												
Tuner	29504 201 2100	1)																											
Tuner	29504 201 3100	1)																											
Tuner	81406 016 1000		•	•	•	•																							
Video	29504 165 7100																												
IF-Amplifier	29504 102 3300																												
Audio-IF-Amplifier	29504 102 4000																												
IF-Amplifier	29504 102 5600																												
Audio-IF-Amplifier (Nicam)	29504 162 3900																												
IF-Amplifier (Multi)	29504 162 5700																												
IF-Amplifier (Multi)	29504 162 5800																												

1) optionally fitted

Module Chart of 1996/1997 Television Receivers

Designation	Part No.	ST 70-705/9 TOP/LOG	ST 70-720/8 text	ST 70-725/8 text	ST 70-728 text	ST 70-765/9 DPL/LOG	ST 70-760 TOP/LOG	ST 70-800 TOP/LOG	ST 70-800/9 TOP/LOG	ST 70-869 IDTV	T 70-843 FR	M 70-1690 DPL/IDTV/LOG	M 70-1690 TOP/LOG	M 70-269 PALplus/LOG	M 70-269/9 Referenz	M 70-280 IDTV/LOG	M 70-280/8 IDTV/LOG	ST 72-261 IDTV/LOG	ST 72-261/8 IDTV/LOG	ST 72-760 text	ST 72-760/8 text	
Tuning Module	29504 003 8100	1)																				
Tuning Module	29504 003 8800					•								•								
Tuning Module	29504 003 9500												•									
Tuning Module	29504 103 6800											•										
Tuning Module	29504 103 8700	1)					1)	1)	1)													
CRT Panel	29305 022 3600		•										•									
CRT Panel	29305 022 4400	•				•		•	•													
CRT Panel	29305 022 7500												•									
CRT Panel	29305 122 0100						•															
CRT Panel	29305 122 0400		•	•	•					•							•	•				
CRT Panel	29305 122 0500		•	•	•					•												
CRT Panel	29305 122 0700													•	•							
CRT Panel	29305 122 1000																		2)	2)		•
CRT Panel	29305 122 1100																					•
CRT Panel	29305 122 1200																		2)	2)		•
EURO-AV Socket Board	29305 160 1500											•										
EURO-AV Socket Board	29305 160 3400													•								
Colour-Sync	29504 105 6700						•	•														
Colour-Sync	29504 165 6700	•				•		•														
Colour-Sync	29504 165 7400												•									
Feature Box	29504 103 3500											•										
Feature Box	29504 103 3700									•						•	•	•	•			
Feature Box	29504 103 3800										•					•						
Feature Box	29504 103 4100														•							
Velocity Modulation	29305 108 0500											•	•									
AF-Amplifier	29504 104 6800											•										
AF-Amplifier	29504 104 6900					•																
AF-Amplifier	29504 104 7100													•								
AF-Amplifier	29504 104 7200														•							
East/West	29504 107 6200											•										
Signal Module	29504 102 3400																•					
Signal Module	29504 162 3400										•											
Signal Module	29504 162 3500																					
Tuner	29504 201 2100	•	1)	1)	1)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1)	1)
Tuner	29504 201 3100		1)	1)	1)						•										1)	1)
VGA Module	29305 160 3500																					
Video	29504 165 7300												•									
IF-Amplifier	29504 102 5600						•	•														
IF-Amplifier	29504 102 5700					•																•
IF-Amplifier	29504 142 3000											•										
IF-Amplifier	29504 162 4800												•									
IF-Amplifier (Multi)	29504 162 5700	•				•			•				•									
IF-Amplifier (Multi)	29504 162 5800	•	•																			•

1) optionally fitted

2) Philips picture tube 122 1000, Toshiba picture tube 122 1200

Module Chart of 1996/1997 Television Receivers

Designation	Part No.	Reference																								
		M 72-315/9 IDTV/PIP/Referenz	M 72-315 IDTV/Referenz	M 82-169 a PALplus	M 82-169/09 TOP/LOG	M 82-269 PALplus/LOG	M 82-269/9 Reference	M 84-210/8 IDTV/LOG	M 95-410/90 Referenz/PIP	DENVER SE 8216/9 PIP/Referenz	ATLANTA SE 7289 IDTV/LOG	BERLIN SE 7290 IDTV/LOG	BOSTON ST 270 IDTV/LOG	BOSTON ST 270/8 IDTV/LOG	TRENTO SE 7016/9 PIP/Referenz	COPENHAGEN ST 763 TOP/LOG	GREENVILLE 7002 text	GREENVILLE 7002/8 text	LISSABON SE 5576 text	SYDNEY ST 872/8 text	SE 6376 TOP/LOG	SE 7089 IDTV/LOG	XS 63/81	XS 70/81		
Tuning Module	29504 003 8400																									
Tuning Module	29504 003 9500				•																					
Tuning Module	29504 103 7400																									
Tuning Module	29504 103 8400																1)									
Keyboard Control	29501 082 3300	•	•																							
Keyboard Control	29501 082 3400			•																						
Keyboard Control	29501 082 4200											•														
CRT Panel	29305 022 1700											•							•							
CRT Panel	29305 022 3700	•	•									•														
CRT Panel	29305 022 4400																•			•						
CRT Panel	29305 022 7700																									
CRT Panel	29305 022 8400			•																						
CRT Panel	29305 122 0400												•	•								•				
CRT Panel	29305 122 0500																	•	•				•		•	•
CRT Panel	29305 122 0700																•									
CRT Panel	29305 122 1000																									
CRT Panel	29305 122 1100																									
EURO-AV Socket Board	29304 060 9300			•																						
EURO-AV Socket Board	29305 160 0500	•	•									•														
EURO-AV Socket Board	29305 160 3400											•	•													
Colour-Sync	29504 105 5600																	•								
Colour-Sync	29504 105 5700																									
Colour-Sync	29504 165 7400				•																					
Feature Box	29504 103 3600	•	•																							
Feature Box	29504 103 3700																									
Feature Box	29504 103 3800																									
Feature Box	29504 103 3900				•																					
Feature Box	29504 103 4100																									
Velocity Modulation	29305 108 0400				•																					
Velocity Modulation	29305 108 0500	•	•																							
Velocity Modulation	29305 108 0600				•																					
AF-Amplifier	29504 104 2600																									
AF-Amplifier	29504 104 2900	•	•																							
AF-Amplifier	29504 104 7000			•																						
AF-Amplifier	29504 104 7100				•																					
AF-Amplifier	29504 104 7200					•			•	•																

1) optionally fitted

Module Chart of 1996/1997 Television Receivers

Designation	Part No.	M 72-315/9 IDTV/PIP/Referenz	M 72-315 IDTV/Referenz	M 82-169 a PALplus	M 82-169/09 TOP/LOG	M 82-269 PALplus/LOG	M 82-269/9 Reference	M 84-210/8 IDTV/LOG	M 95-410/90 Referenz/PIP	DENVER SE 8216/9 PIP/Referenz	ATLANTA SE 7289 IDTV/LOG	BERLIN SE 7290 IDTV/LOG	BOSTON ST 270 IDTV/LOG	BOSTON ST 270/8 IDTV/LOG	TRENTO SE 7016/9 PIP/Referenz	COPENHAGEN ST 763 TOP/LOG	GREENVILLE 7002 text	GREENVILLE 7002/8 text	LISSABON SE 5576 text	SYDNEY ST 827/8 text	SE 6376 TOP/LOG	SE 7089 IDTV/LOG	XS 63/81	XS 70/81
East/West	29504 107 6500	●	●																					
PIP Colour-Multi	29504 165 9400	●																						
PIP	29504 165 9600																							
Signal Module	29504 102 3400																							
Signal Module	29504 162 3400																							
Signal Module	29504 162 3500																							
Tuner	29504 201 0100	●	●																					
Tuner	29504 201 2100				●	●	●	●	●	●	●	●	●	●	●	●	1)	1)	1)	1)	●	●	1)	1)
Tuner	29504 201 3100																1)	1)	1)	1)			1)	1)
Tuner	29504 101 2500			●																				
VGA	29305 160 3500				●	●		●	●															
Video	29504 105 7200			●																				
Video	29504 165 6400	●	●																					
Audio IF	29504 102 4000																							
IF-Amplifier	29504 102 3300		●																					
IF-Amplifier	29504 102 5600																							
IF-Amplifier	29504 102 5700																							
IF-Amplifier (Multi)	29504 162 4700			●																				
IF-Amplifier (Multi)	29504 162 4800	●																						
IF-Amplifier (Multi)	29504 162 5700			●																				
IF-Amplifier (Multi)	29504 162 5800																	●		●		●	●	●

1) optionally fitted

Module Chart of 1997/1998 Television Receivers

Designation	Part No.	P 37-732/5 text	T 51-071	M 55-280/8 IDTV/LOG	ST 55-800 text	ST 55-800/9 text	ST 55-800 a text	ST 63-700 FR/TOP	ST 63-700 NIC/TOP	ST 63-700 text	ST 63-780 NIC/TOP	M 63-281 IDTV/LOG	M 63-281/8 IDTV/LOG	ST 70-270 IDTV	ST 70-270/8 IDTV	ST 70-700 DPL/NIC/FT	ST 70-770 text	ST 70-778 text	ST 70-780 FR/TOP	ST 70-780 NIC/TOP	ST 70-780 text	ST 70-97 IDTV
CRT Panel	29305 022 1400	●																				
CRT Panel	29305 022 1600		●																			
CRT Panel	29305 022 1700				●	●																
CRT Panel	29305 022 1900						●															
CRT Panel	29305 122 0400			●								●	●	●								●
CRT Panel	29305 122 0500							●	●	●	●						●	●				
CRT Panel	29305 122 1600							●	●	●	●								●	●	●	
Feature Box	29504 103 3700			●								●	●	●	●							●
AF-Amplifier	29504 104 4100						●															
AF-Amplifier	29504 104 4300																					
AF-Amplifier	29504 104 7500											●					●					
Signal Module	29504 102 3400											●	●									●
Signal Module	29504 162 3400			●																		
Tuner	29504 201 2100			●								●	●	●	●							●
Tuner	29504 201 3100				●																	
Tuner	81406 016 1000	●	●					1)	1)	1)	1)											
Tuner	81406 016 1200																					
Tuner	81406 016 1300																					
Tuner	81406 016 1400						1)	1)	1)	1)												
IF-Amplifier (Multi)	29504 162 5700					●																
Audio IF	29504 102 4000			●																		
Audio IF (Nicam)	29504 162 3900					●																
IF-Amplifier	29504 102 5700																●	●				

1) optionally fitted

Module Chart of 1997/1998 Television Receivers

Designation	Part No.	M 70-281 IDTV/LOG	M 70-281/8 IDTV/LOG	MW 70-100/8	MW 70-269 PAL PLUS	ST 72-860 FR/TOP	ST 72-860 NIC/TOP	ST 72-860 TOP	ST 72-865 NIC/TOP	M 72-100	M 72-100/8	M 72-410/9 Reference	M 72-410 Reference/PIP	M 72-410 Reference	M 72-270 IDTV/LOG Elegance	MW 82-100/9	MW 82-100/9 PAL PLUS	M 95-410/9 a Reference/PIP
CRT Panel	29305 122 0400	●																
CRT Panel	29305 122 0700		●									●	●					●
CRT Panel	29305 122 1000																	
CRT Panel	29305 122 1400				●													
CRT Panel	29305 122 1500																●	●
CRT Panel	29305 122 1700			●														
CRT Panel	29305 122 1800					●	●	●	●									
EURO-AV Socket Board	29305 160 3400				●							●	●	●			●	●
Feature Box	29504 103 3700	●	●							●	●					●		
Feature Box	29504 103 3800				●													
Feature Box	29504 103 4100				●							●	●	●				●
Feature Box	29504 103 4200				●													
AF-Amplifier	29504 104 8100																	●
AF-Amplifier	29504 104 8200				●													●
AF-Amplifier	29504 104 8300											●	●	●				
PIP	29504 165 9600																	●
PIP	29504 165 9700													●				●
Signal Module	29504 102 3400	●								●						●		
Signal Module	29504 102 3500				●													
Signal Module	29504 162 3400		●	●							●			●				
Signal Module	29504 162 3500																●	●
Tuner	29504 201 2100	●	●	●	●					●	●	●	●	●	●	●	●	●
Tuner	81406 016 1200								1)									
Tuner	81406 016 1300					●	●	1)	●									
VGA	29305 160 3500											●	●				●	●

1) optionally fitted

Module Chart of 1997/1998 Television Receivers

Designation	Part No.	Atlanta SE 7220 IDTV/LOG	Berlin SE 70-100/8	Boston SE 7090 IDTV/LOG	Boston SE 7090/8 IDTV/LOG	Denver SE 82-100 PAL PLUS	Denver SE 8216/9 PAL PLUS	Greenville 7003 NIC/TOP	Greenville 7003 text	Melbourne SE 7210 NIC/TOP	Melbourne SE 7210 TOP	Sydney 100 SE 7020 IDTV/LOG	Sydney 100/8 SE 7020/8 IDTV/LOG	Trento SE 7026 PAL PLUS	Wien 100 SE 6320 IDTV/LOG
CRT Panel	29305 122 0400														
CRT Panel	29305 122 1000	●													
CRT Panel	29305 122 1400													●	
CRT Panel	29305 122 1500					●									
CRT Panel	29305 122 1600						●		●						
CRT Panel	29305 122 1700		●												
CRT Panel	29305 122 1800									●	●				
EURO-AV Socket Board	29305 160 3400					●	●							●	
Feature Box	29504 103 3700	●		●	●							●	●		●
Feature Box	29504 103 3800		●			●	●							●	
Feature Box	29504 103 4200		●												
AF-Amplifier	29504 104 8200					●	●							●	
Signal Module	29504 102 3400	●		●								●			●
Signal Module	29504 102 3500													●	
Signal Module	29504 162 3400		●		●							●			
Signal Module	29504 162 3500					●	●								
Tuner	29504 201 2100	●	●	●	●	●	●					●	●	●	●
Tuner	81406 016 1200										1)				
Tuner	81406 016 1300										1)				
Tuner	81406 016 1400						●	●							
VGA	29305 160 3500					●	●								

1) optionally fitted

Module Chart of 1998/1999 Television Receivers

Designation	Part No.	P 37-080	P 37-3035	P 37-830 text	P 37-830/12 text Globetrotter	P 37-830/4 text	P 37-842 FR	P 37-846 FR/text	P 37-847 FR/text	P 45-830 text	P 45-830/4 text	P 45-846 FR/text	P 45-847 FR/text	T 51-3035 text	T 51-720 text	T 51-731 text (Version No. "IM")	T 51-846 FR/text	M 55-280/8 a IDTV/LOG	ST 55-710 NIC/TOP	ST 55-798 text	ST 55-800 a TOP	ST 55-800 NIC/TOP	ST 55-801/9 text	ST 55-850 FR/TOP	ST 55-850 NIC/TOP	ST 55-850 TOP	ST 55-900 FR/TOP	
CRT Panel	29305 022 8700	●	●	●	●	●	●	●																				
CRT Panel	29305 022 8800	●	●	●	●	●	●	●																				
CRT Panel	29305 022 1400							●																				
CRT Panel	29305 022 1500											●																
CRT Panel	29305 022 1600																											
CRT Panel	29305 022 1700																											
CRT Panel	29305 022 1900																											
CRT Panel	29305 022 9000													●	●	●												
CRT Panel	29305 122 1700																											
Feature Box	29504 103 4200																											
AF-Amplifier	29504 104 4100																											
AF-Amplifier	29504 104 4200																											
AF-Amplifier	29504 104 4300																											
Signal Module	29504 162 3400																											
Tuner PLL	29504 201 2100																											
Tuner PLL	29504 201 3100																											
Tuner VST	61406 016 1000	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)											
Tuner PLL	61406 016 1200																											
Tuner PLL	61406 016 1300																											
Tuner VST	61406 016 1400	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)	1)											
Audio IF-Amplifier	29504 162 3900																											
IF-Amplifier	29504 162 5700																											
VGA	29305 160 3600																											

1) optionally fitted

Module Chart of 1998/1999 Television Receivers

Designation	Part No.	T 55-3035	T 55-3035 text	T 55-731 a text	T 55-830 text	T 55-830/4 text	T 55-840 TOP/SAT	T 55-846 FR/text	T 55-847 FR/text	M 63-281 IDTV/LOG /from 7/98 on	M 63-281/8 IDTV/LOG /from 7/98 on	ST 63-270/8 IDTV /from 6/98 on	ST 63-705 NIC/text	ST 63-710 NIC/text	ST 63-780 text	ST 70-200 IDTV	ST 70-270 IDTV /from 8/98 on	ST 70-270/8 IDTV /from 9/98 on	ST 70-278 IDTV /from 8/98 on	ST 70-600 text	ST 70-700 FR/TOP	
CRT Panel	29305 022 9000																					
CRT Panel	29305 122 1600	•	•	•				•														
CRT Panel	29305 122 1700									•	•						•	•	•			
Feature Box	29504 103 4200									•	•	•					•	•	•			
SAT Module	29504 106 2800						•															
Signal Module	29504 102 3400									•							•					
Signal Module	29504 162 3400										•	•						•				
Tuner PLL	29504 201 2100									•	•	•					•	•	•			
Tuner PLL	29504 301 0100						1)															
Tuner VST	61406 016 1000	1)	1)	1)	1)	1)		1)	1)				1)	1)	1)						1)	
Tuner PLL	61406 016 1200						1)															1)
Tuner PLL	61406 016 1300																					1)
Tuner VST	61406 016 1400	1)	1)	1)	1)	1)		1)	1)				1)	1)	1)							1)

1) optionally fitted

Module Chart of 1998/1999 Television Receivers

Designation	Part No.																						
		M 70-281 IDTV/LOG /from 7/98 on	M 70-281/8 IDTV/LOG /from 7/98 on	M 70-290 IDTV	M 70-290/8 IDTV	ST 70-700 NIC/TOP	ST 70-700 text	ST 70-705 NIC/text	ST 70-710 NIC/text	ST 70-715 NIC/TOP	ST 70-788	ST 70-798 text	ST 70-810 DPL	ST 70-819 NIC/TOP	ST 70-850 NIC/PIP	ST 70-860 FR/TOP	MW 70-269 PAL PLUS (mit dw)	MW 70-269 NIC/TOP	M 72-100 a	M 72-100/8 a	ST 72-01 IDTV		
CRT Panel	29305 122 1000																						
CRT Panel	29305 122 1400																						
CRT Panel	29305 122 1600																						
CRT Panel	29305 122 1700	•	•	•	•																		
CRT Panel	29305 122 2100																						
Double Window Module	29504 109 2100																						
Feature Box	29504 103 3700																						
Feature Box	29504 103 3800																						
Feature Box	29504 103 4200	•	•	•	•																		
AF-Amplifier	29504 104 7700																						
AF-Amplifier	29504 104 8200																						
PIP	29504 106 5100																						
Signal Module	29504 102 3400	•		•																			
Signal Module	29504 102 3500																						
Signal Module	29504 162 3400		•		•																		
Tuner PLL	29504 201 2100	•	•	•	•																		
Tuner PLL	29504 301 0100																						
Tuner VST	61406 016 1000																						
Tuner PLL	61406 016 1200																						
Tuner VST	61406 016 1400																						

1) fitted optionally

TV

Module Chart of 1998/1999 Television Receivers

Designation	Part No.	ST 72-700 TOP	MW 82-100/9 (mit dw)	MW 82-100/9 PAL PLUS (with dw)	MW 82-50/8	M 84-210/8 a IDTV/LOG	ST 84-896 FR/TOP	ST 84-896 NIC/TOP	M 95-411/9 Reference/PIP	Greenville 370 SE 3781 text	Miami SE 3780 text	Wien 100 SE 6320 IDTV/LOG /from 6/98 on	Greenville 550 SE 5586 TOP	Sydney 100 SE 7020 IDTV/LOG /from 6/98 on	Sydney 100/8 SE 7020/8 IDTV/LOG /from 6/98 on	Sydney 100 SE 7021 IDTV/PIP	Greenville 7004 NIC/TOP	Melbourne SE 7210 a NIC/TOP	Atlanta SE 7220 IDTV/PIP	Berlin SE 7027/8 PIP	Denver SE 82-100 PAL PLUS (with dw)	
CRT Panel	29305 022 8700																					
CRT Panel	29305 022 1900																					
CRT Panel	29305 022 2000																					
CRT Panel	29305 122 0700																					
CRT Panel	29305 122 1500		2)																			2)
CRT Panel	29305 122 1600																					
CRT Panel	29305 122 1700																					
CRT Panel	29305 122 2000																					
CRT Panel	29305 122 2100																					
CRT Panel	29305 122 2500																					
EURO-AV Socket Board	29305 008 3600																					
EURO-AV Socket Board	29305 008 4000																					
EURO-AV Socket Board	29305 008 4100																					
EURO-AV Socket Board	29305 008 8300																					
Double Window Module	29504 109 2100																					
Feature Box	29504 103 3800																					
Feature Box	29504 103 4100																					
Feature Box	29504 103 4200																					
AF-Amplifier	29504 104 4100																					
AF-Amplifier	29504 104 8100																					
AF-Amplifier	29504 104 8200																					
PIP (AV PIP)	29504 106 5200																					
PIP (AV PIP)	29504 106 5400																					
PIP (RF PIP)	29504 165 9700																					
Signal Module	29504 162 3400																					
Signal Module	29504 102 3400																					
Signal Module	29504 162 3500																					
Tuner PLL	29504 201 2100																					
Tuner PLL	29504 301 0100	1)																				
Tuner VST	61406 016 1000											1)										
Tuner PLL	61406 016 1200	1)											1)									
Tuner PLL	61406 016 1300																					
Tuner VST	61406 016 1400											1)										
VGA	29305 160 3500																					

1) optionally fitted 2) dependent on type of picture tube

GRUNDIG Tele-Pilot® Remote Control Handset / Types Television Range

TP 710



29642 059 1200

TP711



29642 062 0100

TP 712



29642 063 0100

TP 715



29642 062 1100

TP 720(SAT)

29642 059 0600
(29642 059 1800)

TP 760(HIFI)

29642 059 0100
(29642 059 1100)

TRC 1



75990 200 1400

TRC 2



75990 300 0000

TP FM/CL



29642 059 1500

TP 770



29642 059 0300

TP 771



29642 059 5100

TP 800



29642 061 0100

TP 900



29642 061 1100

TVP 762



75988 017 0600

TVP 763



75988 019 9700

TVP 860



72011 650 0400

TV Control 1



TV Control 2



72011 601 0000 72011 602 0000

Retro-fitting Options for Colour Television Receivers

General Overview

1. To receive additional or different standards
2. Teletext
3. Connecting sockets
4. Satellite reception

The following tables show which retro-fit kit or module is required in each case.

In **Table 1** all CCIR-PAL Colour Television Receivers of the last 4 years (as of October 1998) are listed along with a number code.

Using **Table 2**, these number codes can be used to establish the module required to achieve retrofit or conversion requirements. Redundant modules are also indicated.

All modules and adapters listed in this chapter are obtainable from the Service or Sales Department operated by Grundig Branches and Sales Companies.

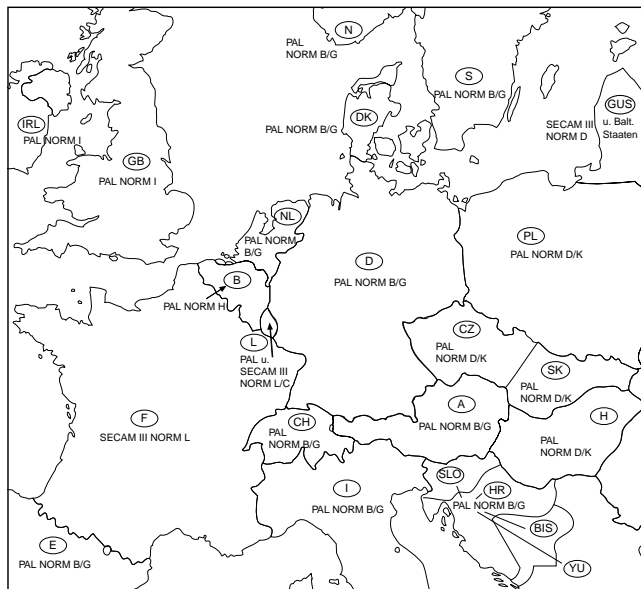


Table 1
to establish the number code

	Secam East	Secam West 2)	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele-text	SAT Reception	S-VHS	Video+ Audio Cinch	k/Head-phone 3.5 mm
Colour TVs Series 1994/95	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
P 37-740 SAT	-	-	-	-	-	●	●	-	●	k
P 37-740 TOP	-	-	-	-	-	●	17	-	●	k
P 40-740 TOP	-	-	-	-	-	●	17	-	●	k
P 45-740 TOP	-	-	-	-	-	●	17	-	●	k
T 55-740 TOP	-	-	-	-	-	●	17	-	●	k
T 55-740 SAT	-	-	-	-	-	●	●	-	●	k
M 55-105 IDTV	●	10	10	10	10	●	-	●	●	k
M 55-105/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 63-160 IDTV	●	10	10	10	10	●	-	●	●	k
ST 63-651/9 TOP	●	●	●	●	●	●	18	●	-	k
ST 63-755 TOP	13	-	-	-	-	●	18	●	●	k
ST 63-755/9 TOP	●	●	●	●	●	●	18	●	●	k
ST 63-760 TOP	●	-	3 3)	1	2	●	-	●	●	k
ST 63-760/8 TOP	●	●	●	●	●	●	-	●	●	k
ST 63-760/9 DPL	●	●	●	●	●	●	-	●	●	k
ST 63-761 TOP	13	-	-	-	-	●	18	●	●	k
ST 63-761/9 TOP	●	●	●	●	●	●	18	●	●	k
ST 63-781 IDTV	●	10	10	10	10	●	-	●	●	k
E 63-911 IDTV	●	●	●	●	●	●	-	●	●	k
M 63-105 IDTV	●	10	10	10	10	●	-	●	●	k
M 63-105/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 7004	13	-	-	-	-	●	18	●	●	k
ST 7004/9	●	●	●	●	●	●	18	●	-	k
ST 70-94 text	5	-	3 3)	1	2	●	-	-	-	k
ST 70-155 IDTV	●	10	10	10	10	●	-	●	●	k
ST 70-155/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 70-907 text	5	-	3 3)	1	2	●	-	-	-	k
ST 70-651/9 TOP	●	●	●	●	●	●	18	●	-	k
ST 70-675 TOP	●	-	3 3)	1	2	●	-	●	●	k
ST 70-705 TOP	13	-	-	-	-	●	18	●	●	k
ST 70-755 TOP	13	-	-	-	-	●	18	●	●	k
ST 70-755/9 TOP	●	●	●	●	●	●	18	●	●	k
ST 70-755 SAT	13	-	-	-	-	●	●	●	●	k
ST 72-160/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 72-760 MD/TOP	●	-	3 3)	1	2	●	-	●	●	k
ST 72-760/9 DPL	●	●	●	●	●	●	-	●	●	k
ST 72-761 TOP	13	-	-	-	-	●	18	●	●	k
ST 72-761/9 TOP	●	●	●	●	●	●	18	●	●	k
ST 72-764 MD/SAT	●	-	-	-	-	●	-	●	●	k
M 72-105/9 IDTV	●	●	●	●	●	●	-	●	●	k
M 72-105/9 IDTV/PIP	●	●	●	●	●	●	-	●	●	k
E 72-911 DPL	●	●	●	●	●	●	-	●	●	k
E 72-911 IDTV	●	●	●	●	●	●	-	●	●	k
M 82-105/9 IDTV/PIP	●	●	●	●	●	●	-	●	●	k
M 82-169 PAL PLUS	●	●	●	●	●	●	-	●	●	k
M 82-169/9 IDTV	●	●	●	●	●	●	-	●	●	k
M 95-105/9 IDTV/PIP	●	●	●	●	●	●	-	●	●	k
Helsinki P 642 text	-	-	3 3)	1	2 3)	●	-	-	-	k
Tivoli T 655 TP	4	-	3 3)	15 1)	16 1)	●	-	-	-	k
Athen T 755 TOP	-	-	-	-	-	●	17	-	●	k
Copenhagen ST 763 TOP	13	-	-	-	-	●	18	●	●	k
Salzburg ST 770 TOP	13	-	-	-	-	●	18	●	●	k
Sydney 72 ST 772/8 TOP	●	●	●	●	●	●	-	●	●	k
Sydney 72 ST 1772 TOP	13	-	-	-	-	●	18	●	●	k
Sydney 72 ST 1772/9 TOP	●	●	●	●	●	●	18	●	●	k
Atlanta 72/9 IDTV ST 172/9	●	●	●	●	●	●	-	●	●	k

1) Conversion for the exclusive reception of 6.0 or 6.5MHz sound. If 5.5MHz is to be received optionally (5.5/6.0 or 5.5/6.5MHz) an audio module must be fitted instead of IF 29504-112.25/-182.25 (see number code 23 or 24)

2) except French Band I 3) without colour

**Continuation of Table 1
to establish the number code**

	Secam East	Secam West	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele- text	SAT Reception	S-VHS	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
Colour TVs Series 1994/95	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
SE 5574 TOP	-	-	-	-	-	●	17	-	●	k
SE 6376 TOP	13	-	-	-	-	●	18	●	●	k
SE 7087 TOP	13	-	-	-	-	●	18	●	●	k
SE 7287 TOP	13	-	-	-	-	●	18	●	●	k
XS 63/1	13	-	-	-	-	●	18	●	-	k
XS 63/9	●	●	●	●	●	●	18	●	-	k
XS 70/1	13	-	-	-	-	●	18	●	-	k
XS 70/9	●	●	●	●	●	●	18	●	-	k

Continuation of Table 1
to establish the number code

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele-text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head-phone Socket k = 3.5 K = 6.3
Colour TVs Series 1995/96	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
P 37-065	-	-	-	-	-	-	-	-	-	-
P 37-070	-	-	-	-	-	-	-	-	-	-
P 37-730 text	-	-	-	-	-	●	-	-	-	-
P 3770 text	-	-	-	-	-	●	-	-	-	-
P 40-64/4 FM/CL	●	-	-	●	●	14	-	-	●	k
T 51-711 text	-	-	-	-	-	●	-	-	-	-
T 51-730 text	-	-	-	-	-	●	-	-	-	-
T 51-730/5 text	●	-	1)3)4)	-	●	●	-	-	-	-
T 55-64/4 FM/CL	●	-	-	●	●	14	-	-	●	k
T 55-645 text	-	-	-	-	-	●	-	-	-	-
T 55-730 text	-	-	-	-	-	●	-	-	-	k
T 55-730/5 text	●	-	1)3)4)	-	●	●	-	-	-	k
ST 55-750 text	-	-	-	-	-	●	-	●	●	k
ST 55-750/9 text	●	●	●	●	●	●	-	●	●	k
E 55-700 TOP/LOG TV-Max	13	-	-	-	-	●	18	●	●	K
E 55-700/9 TOP/LOG TV-Max	●	●	●	●	●	●	18	●	●	K
ST 63-255/8 IDTV	●	-	1)3)4)	●	●	●	19	●	●	k
ST 63-750 text	-	-	-	-	-	●	-	-	-	k
ST 63-750/9 TOP	●	●	●	●	●	●	18	●	●	k
M 61-1690 DPL	●	●	●	●	●	●	18	●	●	k
M 63-115/9 IDTV	●	●	●	●	●	●	-	●	●	k
M 63-776/9 TOP	●	●	●	●	●	●	18	●	●	k
T 70-740 text	-	-	-	-	-	●	-	-	-	k
T 70-740 TOP	-	-	-	-	-	●	-	-	-	k
T 70-740/4 TOP	●	-	-	-	-	●	-	-	-	k
ST 70-100 IDTV	●	10	10	10	10	●	-	●	-	k
ST 70-150 IDTV	●	10	10	10	10	●	-	●	●	k
ST 70-160 IDTV	●	10	10	10	10	●	-	●	●	k
ST 70-160/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 70-255/8 IDTV	●	●	1)3)4)	●	●	●	19	●	●	k
ST 70-705/9 TOP	●	●	●	●	●	●	18	●	●	k
ST 70-745 text	-	-	-	-	-	●	-	-	-	k
ST 70-750 text	-	-	-	-	-	●	-	-	-	k
ST 70-750/9 TOP	●	●	●	●	●	●	18	-	●	k
ST 70-755 TOP/LOG	13	-	-	-	-	●	18	●	●	k
ST 70-755/9 DPL	●	●	●	●	●	●	18	●	●	k
ST 70-755/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
ST 70-95 TOP	13	-	-	-	-	●	18	●	-	k
M 70-169/9 IDTV	●	●	●	●	●	●	-	●	●	k
M 70-1690 DPL/IDTV	●	●	●	●	●	●	-	●	●	k
ST 72-161 IDTV	●	10	10	10	10	●	-	●	●	k
ST 72-161/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 72-761 SAT	13	-	-	-	-	●	●	●	●	k
ST 72-762 TOP	13	-	-	-	-	●	18	●	●	k
ST 72-762/9 TOP	●	●	●	●	●	●	18	●	●	k
M 72-115 IDTV	●	10	10	10	10	●	-	●	●	k
M 72-215 IDTV/Referenz	●	10	10	10	10	●	-	●	●	k
M 72-215/9 IDTV/PIP/Referenz	●	●	●	●	●	●	-	●	●	k
E 72-170 IDTV Elegance	●	10	10	10	10	●	-	●	●	k
E 72-911 DPL/IDTV	●	●	●	●	●	●	-	●	●	k
M 82-115/9 IDTV/PIP	●	●	●	●	●	●	-	●	●	k

1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz

5) with models /8, no reception of French Band I

**Continuation of Table 1
to establish the number code**

	Secam East	Secam West	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele- text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
Colour TVs Series 1995/96	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
M 82-169/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 84-796/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
M 95-115/9 IDTV/PIP	●	●	●	●	●	●	-	●	●	k
SP 737 text GREENVILLE 37	-	-	-	-	-	●	-	●	●	k
T 5574 TOP GREENVILLE 55	-	-	-	-	-	●	17	●	●	k
ST 763 TOP COPENHAGEN	13	-	-	-	-	●	18	●	●	k
ST 770/9 TOP HAMBURG	●	●	●	●	●	●	18	●	●	k
ST 170 IDTV Boston	●	10	10	10	10	●	-	●	●	k
ST 1770 TOP GREENVILLE 70	13	-	-	-	-	●	18	●	●	k
SE 7088 IDTV	●	10	10	10	10	●	-	●	●	k
XS 55/1	-	-	-	-	-	●	-	●	-	k
XS 55/9	●	●	●	●	●	●	-	●	-	k
XS 63/2	-	-	-	-	-	●	-	-	-	k

**Continuation of Table 1
to establish the number code**

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele- text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
Colour TVs Series 1996/97	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
P 37-065/5	●	-	1)3)4)	-	●	-	-	-	-	-
P 37-071	-	-	-	-	-	-	-	-	-	-
P 37-731 text	-	-	-	-	-	●	-	-	-	k
P 37-731/12 text	●	●	-	-	-	●	-	-	-	-
P 37-843 a FR	●	●	-	●	-	-	-	-	-	-
P 45-731 text	-	-	-	-	-	●	-	-	-	k
T 51-070	-	-	-	-	-	-	-	-	-	-
T 51-731 text	●	-	-	-	-	●	-	-	-	-
T 51-732/5 text	●	-	1)3)4)	-	●	●	-	-	-	-
T 55-731 text	-	-	-	-	-	●	-	-	-	k
T 55-732/5 text	●	-	1)3)4)	-	●	●	-	-	-	k
T 55-843 FR	●	●	-	●	-	-	-	-	-	-
ST 55-876/9 text	●	●	●	●	●	●	-	●	●	k
ST 55-95 ECO	-	-	-	-	-	-	-	●	-	k
M 61-1690 TOP/LOG	●	●	●	●	●	-	18	●	●	k
M 63-280 IDTV/LOG	●	-	1)3)4)	-	-	-	19	●	●	k
M 63-280/8 IDTV/LOG	●	●	1)2)3)	-	●	-	19	●	●	k
ST 63-160 a IDTV	●	10	10	10	10	-	-	●	●	k
ST 63-255 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
ST 63-255/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
ST 63-720/8 text	●	●	-	-	-	-	-	-	●	k
ST 63-725/8 text	●	●	-	●	●	-	-	-	●	k
ST 63-800 TOP/LOG	13	-	1)3)4)	-	-	-	18	●	●	k
ST 63-800/9 TOP/LOG	●	●	●	●	●	-	18	●	●	k
ST 70-255 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
ST 70-255/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
ST 70-705/8 text	●	●	-	●	●	-	-	-	●	k
ST 70-705/9 TOP/LOG	●	●	●	●	●	-	18	●	●	k
ST 70-720/8 text	●	●	-	●	●	-	-	-	●	k
ST 70-725/8 text	●	●	-	●	●	-	-	-	●	k
ST 70-728 text	-	-	-	-	-	-	-	-	-	k
ST 70-755/9 DPL/LOG	●	●	●	●	●	-	18	●	●	k
ST 70-760 TOP/LOG	13	-	1)3)4)	-	-	-	18	●	●	k
ST 70-800 TOP/LOG	13	-	1)3)4)	●	●	●	18	●	●	k
ST 70-800/9 TOP/LOG	●	●	●	●	●	-	18	●	●	k
ST 70-869 IDTV	●	●	1)2)3)	●	●	-	19	●	●	k
T 70-843 FR	●	●	-	-	-	-	-	-	-	k
M 70-1690 DPL/IDTV/LOG	●	●	●	●	●	-	-	●	●	k
M 70-1690 TOP/LOG	●	●	●	●	●	-	18	●	●	k
M 70-269 PALplus/LOG	●	●	●	●	●	-	19	●	●	k
M 70-269/9 Referenz	●	●	●	●	●	-	19	●	●	k
M 70-280 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
M 70-280/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
ST 72-261 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
ST 72-261/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
ST 72-760 text	-	-	-	-	-	-	-	-	●	k
ST 72-760/8 text	●	●	-	-	-	●	-	-	●	k

1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz
5) with models /8, no reception of French Band I

**Continuation of Table 1
to establish the number code**

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele-text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head-phone Socket k = 3.5 K = 6.3
Colour TVs Series 1996/97	Standard B/G	Standard L	Standard M	Standard J	Standard D/K/K'					
M 72-315/9 IDTV/PIP/Referenz	●	●	●	●	●	●	-	●	●	k
M 72-315 IDTV/Referenz	●	10	10	10	10	●	-	●	●	k
M 82-169 a PALplus	●	●	●	●	●	●	-	●	●	k
M 82-1690/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
M 82-269 PALplus/LOG	●	●	●	●	●	●	19	●	●	k
M 82-269/9 Reference	●	●	●	●	●	●	19	●	●	k
M 84-410/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
M 95-410/90 Referenz/PIP	●	●	●	●	●	●	19	●	●	k
DENVER SE 8216/9 PIP/Referenz	●	●	●	●	●	●	19	●	●	k
ATLANTA SE 7289 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
BERLIN SE 7290 IDTV/LOG	●	10	10	10	10	●	-	●	●	k
BOSTON ST 270 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
BOSTON ST 270/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
TRENTO SE 7016/9 PIP/Referenz	●	●	●	●	●	●	19	●	●	k
COPENHAGEN ST 763 TOP/LOG	13	-	1)2)3)	-	-	●	18	●	●	k
GREENVILLE 7002 text	-	-	-	-	-	●	-	-	●	k
GREENVILLE 7002/8 text	●	●	-	●	●	●	-	-	●	k
LISSABON SE 5576 text	-	-	1)3)4)	-	-	●	-	●	●	k
SYDNEY ST 872/8 text	●	●	-	●	●	●	-	-	●	k
SE 6376 TOP/LOG	13	-	1)2)3)	-	-	●	18	●	●	k
SE 7089 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
XS 63/81	●	●	-	●	●	●	-	-	-	k
XS 70/81	●	●	-	●	●	●	-	-	-	k

- 1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz
5) with models /8, no reception of French Band I

**Continuation of Table 1
to establish the number code**

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele- text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
Colour TVs Series 1997/98	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
P 37-732/5 text	●	-	1)3)4)	-	●	●	-	-	-	-
T 51-071	-	-	-	-	●	-	-	-	-	-
M 55-280/8 IDTV/LOG	●	●	1)2)3)	●	-	-	19	●	●	k
ST 55-800 a text	-	-	1)3)4)	-	-	-	20	●	●	k
ST 55-800 text	-	-	1)3)4)	-	-	●	-	●	●	k
ST 55-800/9 text	●	●	●	●	●	●	-	●	●	k
ST 63-700 NIC/TOP	-	-	-	●	●	●	-	●	●	k
ST 63-700 text	-	-	-	-	●	●	-	●	●	k
ST 63-780 NIC/TOP	-	-	-	-	●	●	-	●	●	k
ST 63-700 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	k
M 63-281 IDTV/LOG	●	-	1)3)4)	-	-	-	19	●	●	k
M 63-281/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
M 70-281 IDTV/LOG /up to 7/98	●	-	1)3)4)	-	-	-	19	●	●	k
M 70-281/8 IDTV/LOG /up to 7/98	●	●	1)2)3)	●	●	●	19	●	●	k
ST 70-270 IDTV /up to 8/98	●	-	1)3)4)	-	-	-	19	●	●	k
ST 70-270/8 IDTV /up to 9/98	●	●	1)2)3)	●	●	●	19	●	●	k
ST 70-700 DPL/NIC/FT	-	-	-	●	●	●	-	●	●	k
ST 70-770 text	-	-	-	-	-	●	-	-	●	k
ST 70-778 text	-	-	-	-	-	●	-	-	●	k
ST 70-780 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	k
ST 70-780 NIC/TOP	-	-	-	●	●	●	-	●	●	k
ST 70-780 text	-	-	-	-	-	●	-	●	●	k
ST 70-97 IDTV	●	-	1)3)4)	-	-	-	19	●	●	k
MW 70-100/8	●	●	1)2)3)	●	●	●	19	●	●	k
MW 70-269 PAL PLUS	●	21	21	21	21	●	19	●	●	k
M 72-100	●	-	1)3)4)	-	-	●	19	●	●	k
M 72-100/8	●	●	1)2)3)	●	●	●	19	●	●	k
M 72-270 IDTV/LOG Elegance	●	-	1)3)4)	-	-	●	19	●	●	k
M 72-410 Reference	●	21	21	21	21	●	19	●	●	k
M 72-410 Reference/PIP	●	21	21	21	21	●	19	●	●	k
M 72-410/9 Reference	●	●	●	●	●	●	19	●	●	k
ST 72-860 FR/TOP	●	●	1)3)4)	●	-	-	-	●	●	k
ST 72-860 NIC/TOP	-	-	1)3)4)	●	●	●	-	●	●	k
ST 72-860 TOP	-	-	1)3)4)	-	-	●	-	●	●	k
ST 72-865 NIC/TOP	-	-	1)3)4)	-	●	●	-	●	●	k
MW 82-100/9	●	●	●	●	●	●	19	●	●	k
MW 82-100/9 PAL PLUS	●	●	●	●	●	●	19	●	●	k
MW 82-2690 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	k
M 95-410/9 a Reference/PIP	●	●	●	●	●	●	19	●	●	k

1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz
5) models with /8, no reception of French Band I

**Continuation of Table 1
to establish the number code**

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele- text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
Colour TVs Series 1997/98	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
Atlanta SE 7220 a IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
Atlanta SE 7220 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
Berlin SE 70-100/8	●	●	1)2)3)	●	●	●	19	●	●	k
Boston SE 7090 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
Boston SE 7090/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
Denver SE 82-100 PAL PLUS	●	●	●	●	●	●	19	●	●	k
Denver SE 8216/9 PAL PLUS	●	●	●	●	●	●	19	●	●	k
Greenville 7003 NIC/TOP	-	-	-	-	-	●	-	●	●	k
Greenville 7003 text	-	-	-	-	-	●	-	●	●	k
Melbourne SE 7210 NIC/TOP	-	-	1)3)4)	●	●	●	-	●	●	k
Melbourne SE 7210 TOP	-	-	1)3)4)	-	-	●	-	●	●	k
Sydney 100 SE 7020 IDTV/LOG /up to 6/98	●	-	1)3)4)	-	-	●	19	●	●	k
Sydney 100/8 SE 7020/8 IDTV/LOG /up to 6/98	●	●	1)2)3)	●	●	●	19	●	●	k
Trento SE 7026 PAL PLUS	●	21	21	21	21	●	19	●	●	k
Wien 100 SE 6320 IDTV/LOG /up to 6/98	●	-	1)3)4)	-	-	●	19	●	●	k

- 1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz
5) with models /8, no reception of French Band I

Continuation of Table 1 to establish the number code	Secam	Secam	NTSC	GB	OIRT	Tele-	SAT	S-VHS	Video+	Head-
	East	West	Sound 4.5 MHz	Sound 6.0 MHz	Sound 6.5 MHz	text	Reception	Horiden or Euro-AV	Audio Cinch	phone Socket
Colour TVs Series 1998/99	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
P 37-080	•	-	-	-	•	-	-	-	-	•
P 37-3035	-	-	1)3)4)	-	•	-	-	-	-	•
P 37-830 text	-	-	-	-	-	•	-	-	-	•
P 37-830/12 text Globetrotter	•	•	-	•	-	•	-	-	-	•
P 37-830/4 text	•	-	1)3)4)	-	•	-	-	-	-	•
P 37-842 FR	•	•	-	•	-	•	-	-	-	•
P 37-846 FR/text	•	•	-	•	-	•	-	-	-	•
P 37-847 FR/text	•	•	-	•	-	•	-	-	-	•
P 45-830 text	-	-	-	-	-	•	-	-	-	•
P 45-830/4 text	•	-	1)3)4)	-	•	-	-	-	-	•
P 45-846 FR/text	•	•	-	•	-	•	-	-	-	•
P 45-847 FR/text	•	•	-	•	-	•	-	-	-	•
T 51-3035 text	•	-	1)3)4)	-	•	-	-	-	-	•
T 51-720 text	-	-	-	-	-	•	-	-	-	•
T 51-846 FR/text	•	•	-	•	-	•	-	-	-	•
M 55-280/8 a IDTV/LOG	•	•	1)2)3)	•	•	-	19	•	•	•
ST 55-710 NIC/TOP	-	-	1)3)4)	•	•	-	20	•	•	•
ST 55-798 text	-	-	1)3)4)	-	-	-	-	•	•	•
ST 55-800 a TOP	-	-	-	-	-	-	20	•	•	•
ST 55-800 NIC/TOP	-	-	1)3)4)	•	•	-	20	•	•	•
ST 55-801/9 text	•	•	•	•	•	-	-	•	•	•
ST 55-850 FR/TOP	•	•	1)3)4)	•	-	-	20	•	•	•
ST 55-850 NIC/TOP	-	-	1)3)4)	•	•	-	20	•	•	•
ST 55-850 TOP	-	-	-	-	-	-	20	•	•	•
ST 55-900 FR/TOP	•	•	1)3)4)	•	-	•	20	•	•	•
T 55-3035	•	-	1)3)4)	-	•	-	-	-	-	•
T 55-3035 text	•	-	1)3)4)	-	•	-	-	-	-	•
T 55-731 a text	-	-	-	-	-	•	-	-	-	•
T 55-830 text	-	-	-	-	-	•	-	-	-	•
T 55-830/4 text	-	-	1)3)4)	-	•	-	-	-	-	•
T 55-840 TOP/SAT	-	-	-	-	-	-	•	-	-	•
T 55-842 FR	•	•	-	•	-	-	-	-	-	•
T 55-846 FR/text	•	•	-	•	-	•	-	-	-	•
T 55-847 FR/text	•	•	-	•	-	•	-	-	-	•
M 63-281 IDTV/LOG /from 7/98	•	-	1)3)4)	-	-	-	19	•	•	•
M 63-281/8 IDTV/LOG /from 7/98	•	•	1)2)3)	•	•	•	19	•	•	•
ST 63-270/8 IDTV /from 6/98	•	-	1)2)3)	•	•	-	19	•	•	•
ST 63-705 NIC/text	-	-	1)2)3)	•	•	-	20	•	•	•
ST 63-710 NIC/text	-	-	1)2)3)	•	•	•	20	•	•	•
ST 63-780 text	-	-	1)3)4)	-	-	•	20	•	•	•

1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz

**Continuation of Table 1
to establish the number code**

	Secam East	Secam West	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele- text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket
Colour TVs Series 1998/99	Standard B/G	Standard L	Standard M	Standard I	Standard DK/K'					
M 70-281 IDTV/LOG /from 7/98	●	-	1)3)4)	-	-	●	19	●	●	●
M 70-281/8 IDTV/LOG /from 7/98	●	●	1)2)3)	●	●	●	19	●	●	●
M 70-290 IDTV	●	-	1)3)4)	-	-	●	19	●	●	●
M 70-290/8 IDTV	●	●	1)2)3)	●	●	●	19	●	●	●
MW 70-269 PALplus (with dw)	●	-	1)2)3)	-	-	●	19	●	●	●
MW 70-2690 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-788	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-200 IDTV	●	-	1)3)4)	-	-	●	19	●	●	●
ST 70-270 IDTV /from 8/98	●	-	1)3)4)	-	-	●	20	●	●	●
ST 70-270/8 IDTV /from 9/98	●	●	1)2)3)	●	●	●	19	●	●	●
ST 70-278 IDTV /from 8/98	●	-	1)3)4)	-	-	●	19	●	●	●
ST 70-600 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-700 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	●
ST 70-700 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-700 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-705 NIC/text	-	-	1)2)3)	●	●	●	20	●	●	●
ST 70-710 NIC/text	-	-	1)2)3)	●	●	●	20	●	●	●
ST 70-715 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-780 FR/TOP	●	●	1)3)4)	●	-	●	20	●	●	●
ST 70-780 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-780 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-798 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-810 DPL	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-819 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-850 NIC/PIP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-860 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	●
M 72-100 a	●	-	1)3)4)	-	-	●	19	●	●	●
M 72-100/8 a	●	●	1)2)3)	●	●	●	19	●	●	●
ST 72-01 IDTV	●	-	1)3)4)	-	-	●	19	●	●	●
ST 72-700 TOP	-	-	1)3)4)	●	●	●	20	●	●	●
MW 82-100/9 (without dw)	●	●	●	●	●	●	19	●	●	●
MW 82-100/9 (with dw)	●	●	●	●	●	●	19	●	●	●
MW 82-100/9 PALplus (with dw)	●	●	●	●	●	●	19	●	●	●
MW 82-100/9 PALplus (without dw)	●	●	●	●	●	●	19	●	●	●
MW 82-50/8	●	●	1)2)3)	●	●	●	19	●	●	●
MW 82-520/9 PALplus	●	●	●	●	●	●	19	●	●	●
M 84-210/8 a IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	●
ST 84-896 FR/TOP	●	●	1)3)4)	●	-	●	20	●	●	●
ST 84-896 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
M 95-411/9 Reference/PIP	●	●	●	●	●	●	19	●	●	●
Planatron 110/1E	●	●	5) 6)	-	-	●	-	●	●	●
Planatron PW 110-520/9 Palplus	●	●	●	●	●	●	22	●	●	●

- 1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz
5) NTSC 3.58 MHz 6) NTSC 4.43 MHz only via AV

**Continuation of Table 1
to establish the number code**

	Secam- East	Secam- West	NTSC Sound 4.5 MHz	GB Sound 6.0 MHz	OIRT Sound 6.5 MHz	Tele- text	SAT Reception	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket
Colour TVs Series 1998/99	Standard B/G	Standard L	Standard M	Standard I	Standard D/K/K'					
Atlanta SE 7220 IDTV/PIP	●	-	1)3)4)	-	-	●	19	●	●	●
Berlin SE 7027/8 PIP	●	●	1)2)3)	●	●	●	19	●	●	●
Denver SE 82-100 PALplus (with dw)	●	●	●	●	●	●	19	●	●	●
Denver SE 82-100 PALplus (without dw)	●	●	●	●	●	●	19	●	●	●
Greenville 370 SE 3781 text	-	-	-	-	-	●	23	-	-	●
Greenville 550 SE 5586 TOP	-	-	-	-	-	●	20	●	●	●
Greenville 7004 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
Miami SE 3780 text	-	-	-	-	-	●	-	-	-	●
Melbourne SE 7210 a NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
Sydney 100 SE 7020 IDTV/LOG /from 6/98	●	-	1)3)4)	-	-	●	19	●	●	●
Sydney 100 SE 7021 IDTV/PIP	●	-	1)3)4)	-	-	●	19	●	●	●
Sydney 100/8 SE 7020/8 IDTV/LOG /from 6/98	●	●	1)2)3)	●	●	●	19	●	●	●
Wien 100 SE 6320 IDTV/LOG /from 6/98	●	-	1)3)4)	-	-	●	19	●	●	●
TVR 3730 text (version 1)	-	-	5)	-	-	●	-	-	●	●
TVR 3730 text (version 2)	-	-	5)	-	-	●	-	-	●	●
TVR 5100 (version 3)	-	-	5)	-	-	●	-	-	6)	●
TVR 5130 text (version 1)	-	-	5)	-	-	●	-	-	●	●
TVR 5130 text (version 2)	-	-	5)	-	-	●	-	-	●	●
TVR 5530 text (version 1)	-	-	5)	-	-	●	-	-	●	●
TVR 5530 text (version 2)	-	-	5)	-	-	●	-	-	●	●

1) NTSC 4.43 MHz 2) NTSC 3.58 MHz only via AV 3) no 4.5 MHz sound 4) no NTSC 3.58 MHz
5) only NTSC Playback 6) from 4/98 with front Cinch-AV sockets

**Table 2/ Allocation of Number Code (from Table 1) -
Required Material - Redundant Modules**

Number Code	For conversion necessary adapters, kits and modules	Redundant modules (base model)
1	Audio module 6.0 MHz, BFBS Standard 1)	
2	Audio module 6.5 MHz, OIRT Standard 1)	
3	Audio module 4.5 MHz, AFN Standard 1)	
4	Colour/RGB 29504 105 2800	Colour/RGB 29504 105 1400
5	Colour/RGB 29504 105 5100/ 5200/ 5400	Colour/RGB 29504 105 4900/ 5000
6	Audio module 6.5 MHz (see number code 2) + Colour/RGB 29504 105 5100/ 5200	Colour/RGB 29504 105 5000
7	VT 5336 (West) G.AV 7800 (29504 108 7600) or VT 5337 (East) G.AV 7900 (29504 108 7700)	
8	IF 29504 162 1700 + Colour/RGB 29504 165 5100/ 5200/ 5400 + Control Processor (IC 811) SDA 20561 A009, or equivalent, part no. 8305 157 56100	IF 29504 102 1700 Colour/RGB 29504 105 5000/ 5100/ 5200 SDA 20561 A008 or lower
9	VT 5436 G.AX 03 00 (29504 108 8300)	
10	IF 29504 162 4300/ 4600 Connecting cable IF/Display unit "IM" part no. 29200 233 4100	IF 29504 102 3300
11	IF 29504 162 4400 Connecting cable IF/Display unit (main chassis) "NI" part no. 29210 234 2200	IF 29504 102 1400
12 2)	IF 29504 182 2500	29504 102 2500
13	Colour-sync module 29504 165 6700	29504 105 5600
14	VT 6301 G.AY 1400 (29504 108 3900)	
15	IF 29504 112 2500	IF 29504 102 2500
16 2)	IF 29504 182 2500 + Colour/RGB 29504 105 2800	IF 29504 102 2500 Colour/RGB 29504 105 1500
17	SER 7300 G.AX 7300 (29504 106 2300)	
18	SER 6350 G.AX 8200 (29504 106 2200)	
19	SER 150ET G.AD 2500 (29504 106 2400)	
20	Micro Sat Receiver can be externally integrated	for models produced from 9/98
21	Signal module 29504 162 3500	29504 102 3500
22	SER 520 only retrofittable into "Feature Version" of Planatron PW 110-520/9 PALplus (29305 302 0200)	
23	SER 2000 (29504 106 2800)	

1) These audio modules are not included in the range of GRUNDIG accessories. They can be obtained for example from company Haas, Holzgasse 22, D-64380 Rossdorf, phone 06154/9437.

2) Apply an operating voltage of +8 - 12 V (e.g. +B) to IF-contact 15 on the main chassis.

An additional single-pole switch (ON/OFF) can be used to switch over between 5.5 and 6.5 MHz sound-IF.

Built-in Satellite Receiver SER 7300

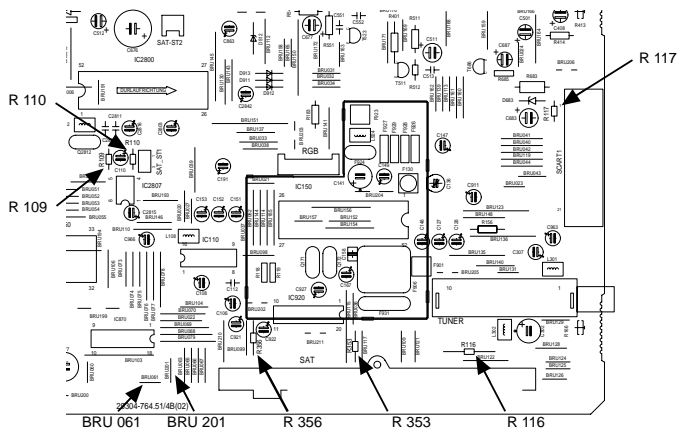
Order No. **GAX 8300**, for colour television receivers fitted with the Chassis CUC 73xx
 Consisting of: 1 SAT Module 29504 106 2300,
 1 Plug-in Connecting Cable, 2-core, 29210 212 7200
 1 Plug-in Connecting Cable, 3-core 29210 603 4100,
 1 Module Holder 29700 616 0100

Fitting Instructions:

- Disconnect the mains plug and open the TV set.
- Remove the socket cover. Remove the dummy plug for the SAT aerial connection and the support at the side of the socket cover.
- Disconnect the following resistors at one side: R 109, R 110, R 116, R 117, and R 353. In French versions of the Chassis CUC 73xx F the resistor R 356 must be disconnected (R 353 is not fitted to this chassis).
- Fit the SAT module and the module holder.
- Connect the SAT module with the cables included in the delivery („SAT-ST1“ and „SAT-ST2“) to the chassis.
- To optimize the sound quality it may be necessary in individual cases to connect the solder pads at the positions BRU 061 and BRU 201 to ground.

If the TV receiver is operated again without the SAT module the resistors mentioned above must be re-connected.

When switching on, select via the Language menu -> Country -> Cable/Aerial -> „Satellite“ with OK. On selection of the desired satellite the correct oscillator frequency will be set automatically and the automatic tuning system will start. The programmes will be allocated in the order pre-programmed in the SAT module and will then be stored automatically.



Built-in Satellite Receiver SER 6350

Order No. **GAX 8200**, for colour television receivers fitted with the Chassis CUC 6360, 6365, 6460

Consisting of: 1 SAT Module 29504 106 2200
1 Plug-in Connecting Cable 29210 214 3200

Fitting Instructions:

- Disconnect the mains plug and open the TV set.
- Insert the SAT module in the place reserved for it.
- Connect the 4-core plug-in connecting cable between the SAT module („SAT 1“ socket) <-> and the tuning module („SAT 1“ socket).

Built-in Satellite Receiver SER 150 ET

SER 150 ET, Order No. **G.AD 2500** for TV chassis:

CUC 1825, 1805 (Digi Basic), CUC 1826, 1827 (Digi Basic +), CUC 1806, 1828, 1829, 1830, 1836, 1929 (Digi Basic++), CUC 1952, 1983, 1984, 1894, 1842 (Digi 6)

Should the EPROM software version in the receiver be higher than that of the retrofit kit, the EPROM must not be replaced.

The EPROM version number can be called up with the remote control buttons:

"I" --> "Dialog Center" --> "OK" --> "AUX"

The **SER 150 ET** receiver consists of: SAT Module 29504 106 2400, fixing device 29700 216 0100, EPROM part no. 19798 300 xx00 (Digi Basic/Basic+), EPROM part no. 19798 311 xx00 (Digi 6).

Assembly Digi Basic:

- Disconnect the mains plug and open the TV set.
- Lift the 2 catches above the Scart sockets and hinge away the socket cover to the side.
- Break off the prepunched dummy plug for SAT aerial connection in the socket cover.
- Detach the module holder and pinch off the 3 holding lugs.
- Remove CR 32325 (3.3 kOhm) on the chassis board (beside the Signal Module Pin 7) if not yet done.
- If the rating is 4.7 kOhm, change the resistor CR 32128 on the Signal Module 29504 102 3400 and 29504 162 3400 to a 2.7 kOhm resistor.
- Insert the SAT Module into the Signal Module and lock the module holder into place.
- Attach the socket cover and lock it into place.
Take care that the chassis board fits into the groove at the lower edge of the cover.
- Fasten the SAT Module with the fixing device.
- In Digi Basic and Digi Basic+ models, replace EPROM IC 80060 (on chassis board) by EPROM 19798 300 xx00 included in the delivery.
- **In Digi Basic++ models, the EPROM needs not to be replaced!**
- Refit the rear of the cabinet and connect the TV receiver.
- Switch the TV set on. Via the ATS menu --> „Adjust language on screen“ --> „Adjust country“ --> „Cable/Aerial“, select the desired satellite with „OK“.
On selection of the satellite, the correct oscillator frequency will be set automatically and the automatic tuning system will start. The programmes are allocated in the order preprogrammed in the SAT Module and are then stored automatically.

Assembly Digi 6:

- Disconnect the mains plug and open the TV set.
- Undo 2 screws at the lower edge of the socket cover and hinge away the cover.
- Break off the prepunched dummy plug for SAT aerial connection in the socket cover.
- Insert the SAT Module into the Signal Module.
- Attach the socket cover and fasten it with the screws.
- Fasten the SAT Module with the fixing device.
- Replace EPROM IC 87030 by EPROM 19798 311 xx00.
- Refit the rear of the cabinet and connect the TV set.
- Switch the TV set on. Via the ATS menu --> „Adjust language on screen“ --> „Adjust country“ --> „Cable/Aerial“, select the desired satellite with „OK“.
On selection of the satellite, the correct oscillator frequency will be set automatically and the automatic tuning system will start. The programmes are allocated in the order preprogrammed in the SAT Module and are then stored automatically.

Special Functions (Options) of Colour Television Receivers - Table 1

Each of the functions below is listed with a number code which is used with the TV receiver model or type of chassis to establish the necessary sequence of operations from Table 2 on the following pages for activating or cancelling the respective function.

Special Function (Option)	Code No.
Single-digit programme indication 1-9 (no effect on AV positions). The short-time flashing of the programme indication after having changed the programme is omitted.	1
Station ident (abbreviated station name) display: off/ short-time after changing the programme/ continuous	2
Switching on with „AV“ („1 AV“).	3
French cable channel spacing. For operation of a TV, multi-norm or converted to norm L, in a French cable installation the receiver must be adjusted to the different French cable channel spacing.	4
French Band I channels with + 6.5 MHz sound carrier. Reception of a French Band I channel (- 6.5 MHz sound carrier) which is converted to a CCIR Band I channel (+ 6.5 MHz sound carrier) with a TV operated in a cable installation.	5
Default values (emergency data set). Loading of average values for brightness, volume, contrast, TINT, picture geometry etc. if the stored analogue values are lost.	6
Dealer Automatic Programming with IR-Data-Programmer IDP 2	7
Sleep function Cancelling the Sleep function which is activated approx. 10 minutes after the end of the TV programme, at the end of the tape or after any signal failure. This option cannot be stored but must be programmed whenever the TV is switched on.	8
Limitation of the programme positions when stepping through with „P +“.	9
Hotel Mode for limiting the maximum possible volume level and for disabling the functions: channel mode (P/C), store (M), automatic station search (ATS) and the menu for setting the receiver.	10
Child lock (switch-on lock/programme lock/electronic combination lock)	11
No display of the bars when setting the volume, contrast and brightness („OSD OFF“).	12
Peaking Changing the picture sharpness.	13

continued on next page:

Special Function (Option)	Code No.
Luminance delay correction (changing the Y-delay).	14
Software status (calling up the EPROM version number).	15
PIP settings	16
Forced PAL/Secam/NTSC at 50 or 60 Hz.	17
OSD position (horizontal shifting of the display on the screen)	18
ATS / Auto Tuning System (starting the automatic station search).	19
Switching the HIFI-MODE to linear/ controlled	20
Changing the menu language	21
Setting the AV time constant in Peri mode (e.g. Peri decimal point is set)	22
Setting the Peri bit (decimal point). Example: „P. 1“. Important for Premiere Decoder for example.	23
Forced mono storable on a per-programme basis	24
White level correction	25
Entering default values. This option is particularly important on replacement of a memory-IC.	26
ATS Reset This option starts the automatic station search the next time the TV is switched on via the menus Language -> Country -> Cable/ Aerial or Satellite (only with SAT module) and „OK“.	27
Switching off the blue screen background	28
Deactivating the eco mains switch	29
Activating/deactivating the Demo Mode	30
Changing the colour of the menu background	31
Cancelling the band limits. With TVs with VST tuning module, this option cancels any band limit values stored in the memory EEPROM. This function is to be carried out on every replacement of the memory to ensure that all channels within the complete frequency range are tuned in.	32
Further special functions:	

Table 2 for establishing the sequence of operations (activating/cancelling)

We distinguish between 11 groups of chassis which are designated letters **A** to **K**:

A: Models with CUC 7851/7880/7890/7951

B: Models with CUC 1800/1821/1822/1824/1851/1852/1881/1892 (Digi 4/5)

C: Models with CUC 6300/6301/6310

D: Models with CUC 6360/6365/6380/6450/6460/6469

E: Models with CUC 7300/7302

F: Models with CUC 6330/6331/7350

G: Models with CUC 7301

H: Models with CUC 1805/1825/1826/1827 (Digi Basic/Basic+)

I: Models with CUC 1842/1894/1952/1962/1983/1984 (Digi 6) 1806/1828/1829/1830/1836/1929 (Digi Basic++)

J: Models with CUC 7303/7305

K: Models with CUC 2020/2030/2031/2050/2051

Code No.	Model Group	Sequence of Operations
1	A to B	See operating instructions. The user is guided by the menu.
	C to I	Enter channel "C00" on programme position "10".
	J/K	TV groups J and K with VST tuning: Enter "00" under "band selection" in the manual tuning menu. TV group K with PLL tuning: Enter channel "C00" on programme position "10".
2	A/C	"off" via "OSD OFF" (menu guide), "permanent" with Telepilot button "i".
	B	Menu guide: "i", "Special functions", "Settings", "Station ident short - permanent* - off". * only models without separate display outside the screen
	H/I	Display of station ident on: press button "i", then do not operate any other button within a period of about 6 seconds. Display of station ident off: press button "i" once
	K	Display of station ident on: press button "i", then do not operate any other button within a period of about 6 seconds. Display of station ident off: press button "i", and press it again within a period of 6 seconds.
3	A/B	Menu guide: "i", "Special functions", "Service", "Switch on with..."
	D	Menu guide: "i", "Special functions", "Settings", "Switch on with..."
	H/I/K	Menu guide: "i", "Dialog Center", "Special functions", "Switch on with..."

continued on next page

Code No.	Model Group	Sequence of Operations
4	C	Menu guide: "Programmes" 4th position ("S").
	B/D/E/H/K	Under the ATS menu option "Adjust country, select "F".
	F	Only multi-system TVs: Select "FR ON" under the ATS menu.
5	A to H	In "Norm 1" and Band I, the TV receiver - multi-system or converted to Norm L - switches to the -6.5 MHz sound carrier when entering a channel between 1 and 4. For a French channel converted to +6.5 MHz, the channel numbers C81 to C84 must be entered. In these channels, the sound carrier is not changed to -6.5 MHz. Use the finetuning function if necessary.
6	B	Loading the picture geometry default values: Menu guide: "i", "Special functions", "Service", "code number 8500", "Geometry"...
7	A/B/I	Depress and hold the "P -" button while switching on with the mains button. Hold the button until the indication appears.
	C/D/E	Sub-menu "SPECIAL FUNCTION", "PROGRAMMER HP", "OK" button on the remote control handset.
	A/B	Sub-menu "Special functions" and "IR-Dataprogrammer".
	F	Depress and hold the "i" button while switching on with the mains button. Select "Programmer HP" on the menu and confirm with "OK".
	H/I/K	Menu guide: "i", "Dialog Center", "Service" (only models without SAT Module). TV group K: only models with PLL tuning system!
8	A/B	Operate the TV set in Channel mode (display shows "C06" for ex.).
9	A to F H/I/J	Store channel "C00" in the programme position which shall no longer be selectable (models of group J/K: - band selection "----"/"00").
10	C/D/F/ G/J/K	Depress and hold button "i" ("P/C" for models of group D) on the remote control while switching on with the mains button. In the menu line "HOTEL" select "ON" and leave the menu with button "i". Cancelling the Hotel Mode: Repeat the steps above but change "HOTEL" to "OFF".
	E	Depress and hold button "P/C" while switching on from Standby with button "P+" on the TV. Set the Hotel Mode to "OFF" with "OK".

continued on next page

Code No.	Model Group	Sequence of Operations
11	A/C	Menu guide: "Timer and key symbol", "OK", with the buttons ∇ , Δ select the key symbol which will then become red, "OK", enter a 4-digit number, "OK", "TV". The child lock remains active even if it has been unlocked repeatedly (by entering the code number). To cancel it: enter the code number via the menu (see above) or by pressing the buttons \triangleright , \triangleleft , ∇ , Δ , "OK" in this order.
	B/D	Menu guide: Sub-menu "Timer-Security-System"; "OK", enter a 4-digit code number and switch-off time. Cancel as described under "A/C".
	H/I/K	Menu guide: "i", "Dialog Center", "Child lock", enter a 4-digit code number. Cancel as described under "A/C". Models of group K and Digi Basic++ : General reset with number "7038".
12	C	Sub-menu "SPECIAL FUNCTION", "OSD ON OFF", "OK".
	A	Menu guide: "i", "Special functions", "Settings", "Picture/Sound options on/off", cancel with the respective button. For individual programme positions, see "F".
	B/D/E	Menu guide: "i", "Special functions", "Settings", "Picture/Sound options on/off".
	H/I	Menu guide: "i", "Dialog Center", "Special functions", "Picture/Sound options on/off" (group I: "visible/invisible").
13	A/B	Menu guide: "i", "Picture settings" or "Picture menu", "Peaking".
	H/I	"Eye" button, "Personal", "OK"
14	A/B	Menu guide: "i", "Special functions", "Service" or "Settings", Luma delay".
	H/I	Menu guide: "i", "Dialog Center", "Service", "Colour match.."
15	A/B/D/ E/H/I	Buttons "i" -> "OK" and "AUX". The figure following the decimal point indicates the EPROM version.
16	A	Menu guide: "i", "Special functions", "Settings", "PIP Size/ Frame/ Contrast". PIP Adjustment Mode: Depress and hold down the "PIP" button while switching on with the mains button. The PIP is faded in and "PIP Adjustment" is displayed on the screen. To change the vertical position: press "P+" or "P-". To change the horizontal position: press "+" or "-". To change the colour of the PIP frame: button "IDTV". To change the PIP size: button "16:9". To change the contrast: button brightness "+/-". To store the new data leaving at the same time the PIP Adjustment Mode, press the "OK" button.

continued on next page

Code No.	Model Group	Sequence of Operations
16	B	Menu guide: "i", "Special functions", "Settings", "PIP frame" and "Frame brightness".
	I	PIP Adjustment Mode: Depress and hold the "PIP" while switching on with the mains button. With the buttons "L-", "L+", "P-", "P+" (Basic++ models: button "PIP" change to left/right, "L-", "L+" left/right fine adjustment) the PIP can be positioned. Store with "OK" button.
17	B	Menu guide: "i", "TV Station Table". Under "Channel ident" put a comma in the 4th place and enter the following letters and figures in the 5th and 6th place: PB for PAL, PH for PAL H, PN for PAL N, P4 for PAL 4.43 MHz, BW for Black/White, NM for NTSC M, PG for PAL G, PI for PAL I, PM for PAL M, SE for SECAM, and N4 for NTSC 4.43 MHz.
	D/H	Menu guide: "i", "TV Station Table". Under "Channel ident" put a comma in the 2nd place and enter the following letters and figures in the 3rd and 4th place: PA for PAL, SE for Secam, N3 for NTSC 3.58 MHz, N4 for NTSC 4.43 MHz. Forced settings for the AV programme positions must be entered in the "AV Settings" menu. In this menu, the "AUX" button activates the line for entering the desired data. (Group H: "i", "Dialog Center", "TV-Programme-Chart", move the yellow bar to "AV" and activate with the "blue" button).
	I	Menu guide: "i", "TV-Programme-Chart". Under "Station name" put a comm in the 4th(2nd) place and enter the following letters and figures in the 5th(3rd) and 6th(4th) place: PB for PAL, NM for NTSC 3.58, SE for Secam, N4 for NTSC 4.43, PM for PAL M, PN for PAL N, P6 for PAL 60 Hz (expressions in parentheses for models with Digi Basic++ chassis)
18	C/J/K	Depress and hold the "i" button on the remote control while switching on with the mains button. Set the OSD position in the menu and store with "OK".
19	B/D/E/ F/G/J	Press and hold the "P/C" button for about 4 seconds.
	I	Menu guide: "i", "OK", menu option "Search for new TV programmes".
	K	Menu guide: "i", "OK", menu option "Automatic Tuning System".
20	B	Press \boxtimes on the remote control, "OK", "HIFI output variable - linear - off".

continued on next page

Code No.	Model Group	Sequence of Operations
21	B/C	Menu guide (see also operating instructions)
	D/E/H/I	Calling up the ATS tuning system -> Language is possible.
	K	Menu guide: "i", "OK" "Adjust language"
22	B	Select the Station Table in the menu and enter the station name (6 places). For this, begin with the letters "AV" in the first two places (e.g. AV K36). Attention! The time constant changes only if AV is entered in the first two places. Additionally, the inserted display must not be switched off completely but must be set to short-time or permanent.
	D/E/H/I	Menu guide: "i", "TV Station Table". Under "Channel ident" enter a comma in the 2nd (4th) place and the letters "AV" in the 3rd (5th) and 4th (6th) place. Expressions in parentheses apply to model group I.
23	C	Select the corresponding programme position. Menu guide: "i", "OK", "SPECIAL FUNCTIONS", "DESCRAMBLER", "ON". To cancel: "i", "OK", "SPECIAL FUNCTIONS", "DESCRAMBLER", "OFF".
	A/B	Press the buttons "AUX" and "0" in the current programme position. By repeatedly pressing the button "0" the following descrambler operating modes can be selected: "Descrambler off", "Descrambler on Stereo", "Descrambler on Mono-L" and "Descrambler on Mono-R". The selected mode is stored automatically.
	D/E	Menu guide: "i", "OK", "Special functions", "AV Settings", "AV 1" and select "Decoder".
	F	Button "P/C" -> "DEC". Set to "ON".
	H/I	Menu guide: "i", "Dialog Center", "TV-Programme-Chart", "AUX" button.
	J	In the Tune menu (called up by "i"+"OK") set "Dec" to "ON".
	K	Select the desired programme position with -> "i", "OK", "Special functions" menu. Set "Decoder" to "ON".
24	A	Menu guide: "i", "TV Station Table". In the first four places of the station ident enter the word "MONO" or ".ONO" (the decimal point means "OSD off" for the respective programme position). To cancel: Overwrite "MONO" with any other name or enter four blanks.

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Code No.	Model Group	Sequence of Operations
24	B/I	Menu guide: "i", "TV Station Table", put a comma in the forth place (Digi Basic++: second place) of the station ident and enter the letters "MO" in the last two places.
	D/H	Menu guide: "i", "TV Station Table", put a comma in the second place of the station ident and enter the letters "MO" in the last two places.
	K	"Ear" button (blue) -> "Sound Mono" and confirm with "OK".
25	A	Menu guide: "i", "Special functions", "Service", "White balance". The mixture of Green/Red and Blue/Red can be adjusted.
	B	Menu guide: "i", "Special functions", "Service", "Code 8500", "White balance" "OK". The mixture of Green/Red and Blue/Red can be adjusted (the white area in the middle of the picture should not be coloured).
	D	Depress and hold the "P/C" button on the remote control while switching on with the mains button. Select "White balance" in the menu. The mixture of Green/Red and Blue/Red can be adjusted.
	H/I/K	Menu guide: "i", "Dialog Center", "Service", "Only for the retailer", "Code 8500". The mixture of Green/Red and Blue/Red can be adjusted.
26	C	Depress and hold the "i" button on the remote control while switching on with the mains button. Menu guide: "Horizontal Position", "OK", "OK", press "i" to leave the menu.
	D/H	Depress and hold the button "P-" on the remote control while switching on with the mains button. (This is only possible once on replacement of the NVM or μ P). To cancel the volume offset: Press and hold the "AUX" button on the remote control while switching the TV on with the mains button.
	E	Depress and hold down button "P-" on the remote control and switch the TV on from Standby with the local "P+" button. (This is only possible once on replacement of the NVM or μ P). To cancel the volume offset: Depress and hold the "AUX" button on the remote control while switching the TV on from Standby with the local "P+" button.
	I	Resetting the factory default values: Buttons "AUX", "OK"
	K	Depress and hold the button "P-" on the remote control while switching on with the mains button. (Additionally on replacement of the memory, the Hotel Mode and the band limits are to be deactivated and the AGC and AFC are to be readjusted).

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Code No.	Model Group	Sequence of Operations
27	D/B/A H/I/K	Depress and hold the "L+" button on the remote control while switching on with the mains button.
	E	Depress and hold the "L+" button on the remote control while switching the TV on from Standby with the local "P+" button.
28	H/I	Menu guide: "i", "Dialog Center", "Service", "for authorised dealer", "Code 8500". Press the yellow button. When changing the programme, the blue background is switched off. This function is cancelled when switching the TV off.
	K	Menu guide: "i", "Dialog Center", "Service", "Blue Screen", set to "off".
29	F	Depress and hold button "L+" on the TV and switch the TV on with the mains button. Repeat to re-activate the economy switch.
30	I	Only Digi 6 TVs: Demo on: Depress and hold button "L+" on the TV and switch the TV on with the mains button. Press the "P+" button within a time of 10 seconds. Demo off: ATS Reset (by depressing the "L+" button on the TV while switching on with the mains button).
31	K	Depress and hold button "i" on the remote control while switching on with the mains button. Move the bar to "OSD-horizontal" in the Service menu and operate the buttons "AUX", "OK" in this order.
32	J/K	Depress and hold button "i" on the remote control while switching on with the mains button. Move the bar to "AGC" in the Service menu and operate the buttons "AUX", "OK" in this order.

Service Manuals from 1994 onwards sorted by sets

TV Model	Part No.	Type	Chassis	Year	
Athen T 1655 TEXT	72010 013 6000	Service Manual		94	
Atlan. 72/9IDTV ST172/9 IDTV	72010 014 2000	Service Manual		94	
	72010 014 2100	1st Supplement	CUC 1822		
Atlanta 72 IDTV ST172 IDTV	72010 014 2000	Service Manual	CUC 1822	94	
Atlanta SE 7220 IDTV/LOG	72010 019 3000	Service Manual		96	
	72010 019 3100	1st Supplement	CUC 1826		
Atlanta SE 7020 I DTV/LOG	72010 019 3000	Service Manual		97	
	72010 019 3100	1st Supplement	CUC 1826		
	72010 019 3200	2nd Supplement			
ATLANTA SE 7220 IDTV/PIP	72010 021 1000	Service Manual		98	
	72010 021 1200	2nd Supplement	CUC 1830		
ATLANTA SE 7220 IDTV/PIP	72010 021 1000	Service Manual		98	
	72010 021 1200	2nd Supplement	CUC 1830		
	72010 021 1400	4th Supplement			
	72010 021 1600	6th Supplement			
Atlanta SE 7289 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	96	
	72010 021 1000	Service Manual	CUC 1828	97	
BERLIN SE 7027/8 PIP	72010 021 1000	Service Manual		98	
	72010 021 1200	2nd Supplement	CUC 1828		
	72010 021 1400	4th Supplement			
	72010 021 1600	6th Supplement			
Berlin SE 7290 IDTV LOG	72010 014 2000	Service Manual		96	
	72010 014 2100	1st Supplement			
	72010 014 2200	2nd Supplement	CUC 1822		
	72010 014 2300	3rd Supplement			
	72010 014 2400	4th Supplement			
	72010 014 2500	5th Supplement			
	72010 014 2600	6th Supplement			
BOSTEN SE 7010 IDTV	72010 021 1000	Service Manual		98	
	72010 021 1200	2nd Supplement	CUC 1836		
	72010 021 1300	3rd Supplement			
	72010 021 1400	4th Supplement			
BOSTON SE 7010 IDTV	72010 021 1700	7th Supplement		98	
	72010 021 1000	Service Manual			
	72010 021 1200	2nd Supplement	CUC 1836		
	72010 021 1300	3rd Supplement			
Boston SE 7090 IDTV/LOG	72010 021 1400	4th Supplement		96	
	72010 021 1700	7th Supplement			
	72010 019 3000	Service Manual	CUC 1826		
	72010 019 3100	1st Supplement			
Boston SE 7090 I DTV/LOG	72010 019 3000	Service Manual	CUC 1826	96	
	72010 019 3100	1st Supplement			
Boston SE 7090/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	96	
	72010 019 3100	1st Supplement			
Boston ST 170 IDTV	72010 019 3000	Service Manual	CUC 1826	96	
	72010 019 3100	1st Supplement			
	72010 014 2000	Service Manual		95	
	72010 014 2100	1st Supplement	CUC 1824		
Boston ST 270 IDTV/LOG	72010 014 2200	2nd Supplement		96	
	72010 014 2300	3rd Supplement			
	72010 019 3000	Service Manual	CUC 1825		
Boston ST 270/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825	96	
Copenhagen ST 763 TOP/LOG	72010 015 0000	Service Manual		96	
	72010 015 0100	1st Supplement			
	72010 015 0200	2nd Supplement	CUC 6360		
	72010 015 0300	3rd Supplement			
	72010 015 0400	4th Supplement			
	72010 015 0500	5th Supplement			
	72010 015 0600	6th Supplement			
Copenhagen ST 763 TOP	72010 015 0000	Service Manual	CUC 6360	94	
Copenhagen ST 763/9 TOP	72010 015 0000	Service Manual		96	
	72010 015 0100	1st Supplement			
	72010 015 0200	2nd Supplement	CUC 6360		
	72010 015 0300	3rd Supplement			
	72010 015 0400	4th Supplement			
	72010 015 0500	5th Supplement			
Denver 82-100 PALplus D/GB	72010 019 9000	Service Manual		97	
	72010 019 9100	1st Supplement	CUC 1984		
	72010 019 9200	2nd Supplement			
Denver 82-100/9 PALplus	72010 019 9000	Service Manual		97	
	72010 019 9100	1st Supplement	CUC 1984		
Denver SE 82-100 PALplus	72010 019 9000	Service Manual		98	
	72010 019 9100	1st Supplement	CUC 1984		
	72010 019 9200	2nd Supplement			
	72010 019 9400	4th Supplement			
DENVER SE 8227/8 PIP	72010 021 1000	Service Manual		98	
	72010 021 1200	2nd Supplement	CUC 1929		
	72010 021 1300	3rd Supplement			
	72010 021 1400	4th Supplement			
	72010 021 1700	7th Supplement			
	72010 021 1000	Service Manual			98
	72010 021 1200	2nd Supplement	CUC 1929		
72010 021 1300	3rd Supplement				
DENVER SE 8227/8 PIP	72010 021 1400	4th Supplement		98	
	72010 021 1700	7th Supplement			
	72010 017 5000	Service Manual	CUC 6450		95
	72010 017 5000	Service Manual	CUC 6450		95
E 55-700 TOP	72010 017 5000	Service Manual	CUC 6450	95	
E 55-700/9 TOP	72010 017 5000	Service Manual	CUC 6450	95	
E 63-911 IDTV	72010 014 2000	Service Manual	CUC 1822	94	

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

TV Model	Part No.	Type	Chassis	Year
E 72-170 IDTV Elegance	72010 014 2000	Service Manual	CUC 1822	94
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
E 72-911 DPL	72010 014 7000	Service Manual	CUC 7861	94
E 72-911 IDTV	72010 014 2000	Service Manual	CUC 1822	94
E 72-911 IDTV PIP	72010 014 2000	Service Manual	CUC 7861	94
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
Greenv. 7003 NIC/TOP D/GB	72010 020 7000	Service Manual	CUC 2030 N	97
Greenville 37 SP 737 text	72010 016 8000	Service Manual	CUC 7350	94
	72010 016 8100	1st Supplement		
GREENVILLE 370 SE 3781 TOP	72010 024 0000	Service Manual	CUC 2003	98
Greenville 55 T 5574 TOP	72010 015 4000	Service Manual	CUC 7300	95
	72010 015 4100	1st Supplement		
GREENVILLE 550 SE 5586 TOP	72010 021 4000	Service Manual	CUC 2020	98
Greenville 70 ST 1770 TOP	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
Greenville 7002 TEXT	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
Greenville 7002/8 TEXT	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
Greenville 7003 text	72010 020 7000	Service Manual	CUC 2030	97
	72010 020 7000	Service Manual		
GREENVILLE 7004 NIC/TOP	72010 020 7100	Service Manual	CUC 2050 N	98
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
	72010 017 6000	Service Manual		
GT 1401	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 1401 I	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 1402	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 1402 I	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 2001	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 2001 I	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 2003	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 2003 I	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 2005	72010 019 1000	Service Manual	G 1000 St.	96
	72010 017 6000	Service Manual		
GT 2101	72010 017 6100	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 2103	72010 017 6000	Service Manual	G 1000	96
	72010 017 6100	1st Supplement		
GT 2105	72010 019 1000	Service Manual	G 1000 St.	96
	72010 015 0000	Service Manual		
Hamburg SE 770/9 TOP	72010 015 0100	Service Manual	CUC 6360	95
	72010 016 8000	Service Manual		
Lissabon SE 5576 text	72010 016 8100	Service Manual	CUC 7350	94
	72010 020 5000	Service Manual		
M 1403	72010 020 5000	Service Manual	CUC 7303	97
M 1403 TXT	72010 020 5000	Service Manual	CUC 7303	97
M 2003 TXT	72010 020 5000	Service Manual	CUC 7303	97
M 2103 TXT	72010 020 5000	Service Manual	CUC 7303	97
M 2150 TXT	72010 020 6000	Service Manual	CUC 7350	97
M 55-105 IDTV	72010 014 2000	Service Manual	CUC 1800	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
M 55-105/9 IDTV	72010 014 2000	Service Manual	CUC 1800	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
M 55-280/8 A IDTV LOG	72010 021 1000	Service Manual	CUC 1806	98
	72010 021 1200	2nd Supplement		
M 55-280/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1805	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
M 55-290/8 IDTV	72010 021 1000	Service Manual	CUC 1806	98
	72010 021 1200	2nd Supplement		
	72010 021 1400	4th Supplement		
	72010 021 1600	6th Supplement		
M 61-1690 DPL	72010 018 7000	Service Manual	CUC 6469	96
	72010 015 0000	Service Manual		
M 61-1690 TOP/LOG	72010 015 0100	Service Manual	CUC 6369	96
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
M 63-105 IDTV	72010 014 2000	Service Manual	CUC 1822	94
M 63-105/9 IDTV	72010 014 2000	Service Manual	CUC 1822	94
	72010 014 2100	1st Supplement		

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

TV Model	Part No.	Type	Chassis	Year
M 63-115/9 IDTV	72010 014 2000	Service Manual	CUC 1822	94
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
M 63-281 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
M 63-281 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
M 63-281 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
M 63-281/8 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
M 63-281/8 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
M 63-281/8 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
M 63-776/9 TOP	72010 015 0000 72010 015 0100	Service Manual 1st Supplement	CUC 6365	95
M 70-169/9 IDTV	72010 016 1000	Service Manual	CUC 1951	95
M 70-1690 DPL	72010 018 7000	Service Manual	CUC 6469	96
M 70-1690 DPL/IDTV	72010 018 9000	Service Manual	CUC 1961	96
M 70-1690 DPL/IDTV/LOG	72010 018 9000	Service Manual	CUC 1961	96
M 70-1690 TOP/LOG	72010 015 0000	Service Manual	CUC 6369	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
M 70-269/9 Referenc	72010 019 9000	Service Manual	CUC 1952	97
M 70-280 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825	96
M 70-280 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	96
M 70-280/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825	96
M 70-280/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	96
M 70-281 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
M 70-281 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
	72010 021 1000 72010 021 1200	Service Manual 2nd Supplement	CUC 1836	98
M 70-281 IDTV/LOG	72010 021 1300	3rd Supplement	CUC 1836	98
	72010 021 1400	4th Supplement		
	72010 019 3000	Service Manual		
M 70-281/8 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
M 70-281/8 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual 1st Supplement	CUC 1826	96
M 70-281/8 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
M 70-290 IDTV	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
M 70-290/8 IDTV	72010 021 1000	Service Manual	CUC 1830	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
M 72-100 A	72010 021 1000 72010 021 1200	Service Manual 2nd Supplement	CUC 1830	98
M 72-100 IDTV	72010 019 3000 72010 019 3200	Service Manual 2nd Supplement	CUC 1826	97
M 72-100/8 A	72010 021 1000 72010 021 1200	Service Manual 2nd Supplement	CUC 1830	98
M 72-100/8 IDTV	72010 019 3000	Service Manual	CUC 1826	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
M 72-105/9 IDTV	72010 014 2000	Service Manual	CUC 1852	94
M 72-105/9 IDTV/PIP	72010 014 2000	Service Manual	CUC 1852	94
M 72-115 IDTV	72010 014 2000	Service Manual	CUC 1852	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
M 72-115/9 IDTV PIP	72010 014 2000	Service Manual	CUC 1852	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
M 72-215/9 IDTV/PIP Reference	72010 014 2000	Service Manual	CUC 1852	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
	72010 014 2500	5th Supplement		

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

TV Model	Part No.	Type	Chassis	Year
M 72-270 IDTV/LOG Elegance	72010 019 3000	Service Manual	CUC 1826	96
	72010 019 3100	1st Supplement		
M 72-270 IDTV/LOG Elegance	72010 019 3000	Service Manual	CUC 1826	96
	72010 019 3100	1st Supplement		
M 72-270/8 IDTV/LOG ELEGANCE	72010 019 3000	Service Manual	CUC 1826	98
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
	72010 019 3300	3rd Supplement		
	72010 019 3600	6th Supplement		
M 72-315 IDTV Reference	72010 014 2000	Service Manual	CUC 1852	96
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
	72010 014 2500	5th Supplement		
M 72-315/9 IDTV/PIP/Reference	72010 014 2000	Service Manual	CUC 1852	96
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
	72010 014 2500	5th Supplement		
M 72-410 Reference	72010 019 9000	Service Manual	CUC 1842	97
M 72-410/9 Reference	72010 019 9000	Service Manual	CUC 1842	97
M 72-410/9 Reference/PIP	72010 019 9000	Service Manual	CUC 1842	97
M 82-105/9 IDTV	72010 012 9000	Service Manual	CUC 1881	94
M 82-105/9 IDTV	72010 012 9100	1st Supplement	CUC 1881	94
	72010 012 9100	1st Supplement		
M 82-105/9 IDTV/PIP	72010 014 2000	Service Manual	CUC 1882	94
	72010 014 2100	1st Supplement		
M 82-115/9 IDTV PIP	72010 014 2000	Service Manual	CUC 1882	94
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
M 82-169 PAL PLUS	72010 014 2300	3rd Supplement	CUC 1882	94
	72010 014 2400	4th Supplement		
M 82-169 PAL PLUS	72010 016 0000	Service Manual	CUC 1981	95
M 82-169/9 IDTV	72010 016 1000	Service Manual	CUC 1982	95
M 82-1690 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
	72010 015 0700	7th Supplement		
M 82-169a PAL PLUS	72010 016 0000	Service Manual	CUC 1981	96
M 82-269/9 Ref	72010 016 0100	1st Supplement	CUC 1984	97
M 82-269PALplus/LOG	72010 019 9000	Service Manual	CUC 1983	97
M 82-795 TOP	72010 013 1000		CUC 7880	94
M 82-795/9 PIP/TOP	72010 013 1100		CUC 7880	94
	72010 013 1100	Service Manual		
M 84-210/8 A IDTV LOG	72010 021 1000	Service Manual	CUC 1829	98
	72010 021 1200	2nd Supplement		
M 84-210/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1827	96
	72010 019 3100	1st Supplement		
M 84-210/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1827	96
	72010 019 3100	1st Supplement		
M 95-105/9 IDTV	72010 012 9000	Service Manual	CUC 1892	94
	72010 012 9100	1st Supplement		
M 95-105/9 IDTV/PIP	72010 014 2000	Service Manual	CUC 1893	94
	72010 014 2100	1st Supplement		
M 95-115/9 IDTV PIP	72010 014 2000	Service Manual	CUC 1893	94
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
M 95-410/9 Reference/PIP	72010 014 2400	4th Supplement	CUC 1842	97
	72010 019 9000	Service Manual		
M 95-411/9 Reference/PIP	72010 019 9000	Service Manual	CUC 1894	97
	72010 019 9100	1st Supplement		
	72010 019 9200	2nd Supplement		
M 95-795/9 PIP/TOP	72010 007 3000	Service Manual	CUC 7880	94
	72010 007 3100	1st Supplement		
MELBOURNE SE 7210 A NIC/TOP	72010 020 7000	Service Manual	CUC 2051 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
Melbourne SE 7210 TOP	72010 020 7000	Service Manual	CUC 2031	97
	72010 020 7100	1st Supplement		
Melbourne SE 7210/NIC/TOP	72010 020 7000	Service Manual	CUC 2031 N	97
	72010 020 7100	1st Supplement		
Miami SE 3780 text	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4300	3rd Supplement		
	72010 019 4600	6th Supplement		
MINERVA M 1403	72010 020 5000	Service Manual	CUC 7303	97
MINERVA M 1403 TXT	72010 020 5000	Service Manual	CUC 7303	97
MINERVA M 2003 TXT	72010 020 5000	Service Manual	CUC 7303	97
MINERVA M 2103 TXT	72010 020 5000	Service Manual	CUC 7303	97

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TV Model	Part No.	Type	Chassis	Year
MINERVA P 3770 text	72010 017 6000	Service Manual	G 1000	94
	72010 011 4000	Service Manual		
	72010 011 4100	1st Supplement	CUC 5360	94
MINERVA ST 6303	72010 011 4100	1st Supplement	CUC 5360	94
	72010 011 4200	2nd Supplement		
MINERVA T 5570 text	72010 017 6000	Service Manual	G 1000	95
MW 70-100/8	72010 021 1000	Service Manual	CUC 1828	97
MW 70-269 PALplus	72010 019 9000	Service Manual	CUC 1952	97
	72010 019 9100	1st Supplement		
MW 70-269 PALplus	72010 019 9000	Service Manual	CUC 1952	98
	72010 019 9100	1st Supplement		
	72010 019 9200	2nd Supplement		
	72010 019 9400	4th Supplement		
MW 70-2690 FR/TOP	72010 020 8000	Service Manual	CUC 2059 F	98
	72010 020 8200	2nd Supplement		
	72010 020 8300	3rd Supplement		
MW 70-2690 NIC/TOP	72010 020 7000	Service Manual	CUC 2059 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
	72010 019 9000	Service Manual		
MW 82-100/9	72010 019 9100	1st Supplement	CUC 1984	98
	72010 019 9200	2nd Supplement		
	72010 019 9400	4th Supplement		
	72010 019 9000	Service Manual	CUC 1984	97
MW 82-100/9	72010 019 9100	1st Supplement		
	72010 019 9100	Service Manual	CUC 1984	97
MW 82-100/9 PALplus	72010 019 9000	Service Manual	CUC 1983	97
	72010 019 9100	1st Supplement		
	72010 019 9200	2nd Supplement		
MW 82-100/9 PALplus	72010 019 9000	Service Manual	CUC 1983	98
	72010 019 9100	1st Supplement		
	72010 019 9200	2nd Supplement		
	72010 019 9400	4th Supplement		
MW 82-269/9 Reference	72010 019 9000	Service Manual	CUC 1984	97
	72010 019 9100	1st Supplement		
MW 82-2690 NIC/TOP	72010 020 7000	Service Manual	CUC 2058 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
MW 82-50/8	72010 021 1000	Service Manual	CUC 1929	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
P 14-6210/4	72010 019 8000	Service Manual	CUC 400	96
P 14-6210/4 text	72010 019 8000	Service Manual	CUC 400	96
P 14-6210/6	72010 019 8000	Service Manual	CUC 400	96
P 14-6210/6 text	72010 019 8000	Service Manual	CUC 400	96
P 14-6210/8	72010 019 8000	Service Manual	CUC 400	96
P 14-6210/8 text	72010 019 8000	Service Manual	CUC 400	96
P 20-6210/4 text	72010 019 8000	Service Manual	CUC 400	96
P 20-6210/8 text	72010 019 8000	Service Manual	CUC 400	96
P 37 - 830 / 12 text	72010 019 5000	Service Manual	CUC 7305	98
Globetrotter	72010 019 5100	1st Supplement		
P 37 - 842 FR	72010 019 6000	Service Manual	CUC 7303 FR	98
	72010 019 6300	3rd Supplement		
P 37 - 847 FR / TEXT	72010 019 6000	Service Manual	CUC 7303 FR	98
	72010 019 6300	3rd Supplement		
	72010 019 6400	4th Supplement		
P 37-065	72010 017 6000	Service Manual	G 1000	94
P 37-065/5	72010 017 8000	Service Manual	CUC 7301	94
P 37-066/5	72010 019 4000	Service Manual	CUC 7303	96
P 37-070	72010 017 8000	Service Manual	CUC 7301	94
P 37-070 GB	72010 017 8000	Service Manual	CUC 7301	94
P 37-071	72010 019 4000	Service Manual	CUC 7303	96
P 37-071 GB	72010 019 4000	Service Manual	CUC 7303	96
P 37-071-071 IR	72010 019 4000	Service Manual	CUC 7303	96
	72010 019 4100	1st Supplement		
	72010 019 4200	2nd Supplement		
	72010 019 4300	3rd Supplement		
P 37-3035 text	72010 019 4000	Service Manual	CUC 7303	97
	72010 019 4100	1st Supplement		
	72010 019 4200	2nd Supplement		
P 37-730 MegASIS	72010 017 8000	Service Manual	CUC 7301	97
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
	72010 017 8400	4th Supplement		
P 37-730 text	72010 017 8500	5th Supplement		
P 37-730 text ASIS	72010 017 8000	Service Manual	CUC 7301	96
P 37-730 text GB	72010 017 8100	1st Supplement	CUC 7301	96
P 37-730 text GB	72010 017 8000	Service Manual	CUC 7301	94
P 37-730/5 text ICN	72010 017 8000	Service Manual	CUC 7301	97
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
P 37-731 text IR	72010 017 8400	4th Supplement		
	72010 019 4000	Service Manual	CUC 7303	97
	72010 019 4100	1st Supplement		
P 37-731 text/GB	72010 019 4200	2nd Supplement		
	72010 019 4000	Service Manual	CUC 7303	96

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TV Model	Part No.	Type	Chassis	Year
P 37-731/12 text	72010 019 5000	Service Manual	CUC 7305	96
P 37-732/5 text	72010 019 4000	Service Manual	CUC 7303	96
	72010 019 4100	1st Supplement		
	72010 019 4200	2nd Supplement		
	72010 019 4300	3rd Supplement		
P 37-740 SAT	72010 015 4000	Service Manual	CUC 7300	94
P 37-740 TOP	72010 015 4000	Service Manual	CUC 7300	94
P 37-830 MULTI/ICN	72010 024 0000	Service Manual	CUC 2003 H	98
P 37-841 FR	72010 019 6000	Service Manual	CUC 7303 F	96
P 37-843 FR	72010 018 5000	Service Manual	CUC 7301 F	94
P 37-845 FR+SAT	72010 016 6000	Service Manual	CUC 7300 F	95
	72010 019 6000	Service Manual	CUC 7303 F	97
P 37-846 FR	72010 019 6100	1st Supplement		
		72010 019 6200	2nd Supplement	
P 3770	72010 017 6000	Service Manual	G 1000	94
P 40-64 FR/ FM/CL	72010 016 4000	Service Manual	CUC 6301 F	95
P 40-64/4 ASIS	72010 014 8000	Service Manual	CUC 6301	95
	72010 014 8100	1st Supplement		
P 40-64/4 FM/CL	72010 014 8000	Service Manual	CUC 6301	94
P 40-740 TOP	72010 015 4000	Service Manual	CUC 6300	94
P 45-64/4 ASIS	72010 014 8000	Service Manual	CUC 6301	95
	72010 014 8100	1st Supplement		
P 45-731 text	72010 019 4000	Service Manual	CUC 7303	96
P 45-740 TOP	72010 015 4000	Service Manual	CUC 7300	94
P 45-830 MULTI MEGASIS	72010 024 0000	Service Manual	CUC 2003 H	98
P 45-841 FR	72010 019 6000	Service Manual	CUC 7303 F	96
P 45-843 FR	72010 019 4600	Service Manual	CUC 7303	96
P 45-845 FR	72010 016 6000	Service Manual	CUC 7300 F	95
P37-080	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4300	3rd Supplement		
	72010 019 4600	6th Supplement		
P37-080 GB	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
	72010 019 4700	7th Supplement		
P37-080 IR	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
	72010 019 4700	7th Supplement		
P37-830 text	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4300	3rd Supplement		
	72010 019 4600	6th Supplement		
P37-830 text/GB	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
	72010 019 4700	7th Supplement		
P37-830 text/IR	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
	72010 019 4700	7th Supplement		
P37-830/4 text	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4300	3rd Supplement		
	72010 019 4600	6th Supplement		
P45-830 text	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4300	3rd Supplement		
	72010 019 4600	6th Supplement		
P45-830/4 text	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
	72010 019 4700	7th Supplement		
Salzburg ST 770 TOP	72010 015 0000	Service Manual	CUC 6360	94
Salzburg ST 770 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	94
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
SE 5574 TOP	72010 015 4000	Service Manual	CUC 7300	94
SE 6376 TOP	72010 015 0000	Service Manual	CUC 6360	94
SE 6376 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
SE 7016/9 Ref./PIP Trento	72010 019 9000	Service Manual	CUC 1952	97
SE 7087 TOP/LOG	72010 015 0000	Service Manual	CUC 1824	95
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
SE 7088 IDTV	72010 014 2000	Service Manual	CUC 1824	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
SE 7089 IDTV/LOG	72010 014 2300	3rd Supplement	CUC 1825	96
SE 7277 text	72010 016 9000	Service Manual	CUC 6331	96
SE 7287 TOP	72010 016 9100	1st Supplement	CUC 6365	94
	72010 015 0000	Service Manual		
SE 7287 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		

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TV Model	Part No.	Type	Chassis	Year
SE 7288/9 IDTV	72010 014 2000 72010 014 2100	Service Manual 1st Supplement	CUC 1822	94
SE 8216/9 Ref./PIP Denver	72010 019 9000	Service Manual	CUC 1984	97
ST 25-8210/6 NT	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual 1st Supplement 3rd Supplement	CUC 2040 India	98
ST 28-8210/6 NT	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual 1st Supplement 3rd Supplement	CUC 2040 India	98
ST 55 - 798 text	72010 016 8000 72010 016 8500 72010 016 8700	Service Manual 5th Supplement 7th Supplement	CUC 7350	98
ST 55-710 NIC/TOP	72010 021 4000	Service Manual	CUC 2020 N	98
ST 55-725 A FT/GB	72010 021 4000	Service Manual	CUC 2020 N	98
ST 55-725 FT/GB	72010 016 8000 72010 016 8100	Service Manual 1st Supplement	CUC 7350	96
ST 55-750 FR/TOP	72010 021 8000 72010 021 8100	Service Manual 1st Supplement	CUC 2020 FR	98
ST 55-750 text	72010 016 8000 72010 016 8100	Service Manual 1st Supplement	CUC 7350	94
ST 55-750/9 text	72010 016 8000 72010 016 8100	Service Manual 1st Supplement	CUC 7350	94
ST 55-753 FR/NIC	72010 016 2000	Service Manual	CUC 5350 F	95
ST 55-800 A TOP	72010 021 4000	Service Manual	CUC 2020	98
ST 55-800 NIC/TOP	72010 021 4000	Service Manual	CUC 2020 N	98
ST 55-800 text	72010 016 8000 72010 016 8100 72010 016 8300	Service Manual 1st Supplement 3rd Supplement	CUC 7350	94
ST 55-800/9 text	72010 016 8000 72010 016 8100 72010 016 8300	Service Manual 1st Supplement 3rd Supplement	CUC 7350	94
ST 55-801/9 text	72010 016 8000 72010 016 8100 72010 016 8300 72010 016 8400 72010 016 8500	Service Manual 1st Supplement 3rd Supplement 4th Supplement 5th Supplement	CUC 7350	94
ST 55-850 FR / TOP	72010 021 8000	Service Manual	CUC 2020 FR	98
ST 55-850 NIC/TOP	72010 021 4000	Service Manual	CUC 2020 N	98
ST 55-850 TOP	72010 021 4000	Service Manual	CUC 2020	98
ST 55-875 FR/NIC	72010 016 2000 72010 016 2100	Service Manual 1st Supplement	CUC 5350 F	95
ST 55-876/9 TEXT	72010 016 8000 72010 016 8100	Service Manual 1st Supplement	CUC 7350	95
ST 55-900 FR / TOP	72010 021 8000	Service Manual	CUC 2020 FR	98
ST 55-95 ECO	72010 016 8000 72010 016 8100 72010 016 8300	Service Manual 1st Supplement 3rd Supplement	CUC 7350	94
ST 63-160 IDTV	72010 014 2000	Service Manual	CUC 1822	94
ST 63-160a IDTV	72010 014 2000 72010 014 2100 72010 014 2200 72010 014 2300 72010 014 2400 72010 014 2500 72010 014 2600	Service Manual 1st Supplement 2nd Supplement 3rd Supplement 4th Supplement 5th Supplement 6th Supplement	CUC 1822	96
ST 63-255 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825	96
ST 63-255/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825	96
ST 63-270/8 IDTV	72010 019 3000 72010 019 3100 72010 019 3200 72010 019 3300 72010 019 3600	Service Manual 1st Supplement 2nd Supplement 3rd Supplement 6th Supplement	CUC 1825	98
ST 63-270/8 IDTV	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400	Service Manual 2nd Supplement 3rd Supplement 4th Supplement	CUC 1836	98
ST 63-650/8 TOP	72010 011 4000 72010 011 4100 72010 011 4200	Service Manual 1st Supplement 2nd Supplement	CUC 5360	94
ST 63-651/9 TOP	72010 015 0000	Service Manual	CUC 6360	94
ST 63-700 DPL/NIC/FT	72010 020 7000 72010 020 7100	Service Manual 1st Supplement	CUC 2040 N	97
ST 63-700 FR	72010 020 8000	Service Manual	CUC 2030	97
ST 63-700 NIC/FT	72010 020 7000 72010 020 7100	Service Manual 1st Supplement	CUC 2030 N	97
ST 63-700 NIC/text	72010 020 7000	Service Manual	CUC 2030 N	97
ST 63-700 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N	97
ST 63-700 text	72010 020 7000	Service Manual	CUC 2030	97
ST 63-705 NIC/TEXT	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual 1st Supplement 3rd Supplement 4th Supplement	CUC 2030 N	98
ST 63-710 NIC/text	72010 020 7000 72010 020 7100	Service Manual 1st Supplement	CUC 2030 N	97
ST 63-720/8 text	72010 016 9000 72010 016 9100	Service Manual 1st Supplement	CUC 6330	96
ST 63-720/8 text	72010 016 9000 72010 016 9100	Service Manual 1st Supplement	CUC 6330	96

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TV Model	Part No.	Type	Chassis	Year
ST 63-725/8 FT/GB	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
ST 63-725/8 text	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
ST 63-750 text	72010 016 9000	Service Manual	CUC 6330	94
ST 63-750/9 TOP	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
ST 63-755 DPL	72010 020 7000	Service Manual	CUC 2040 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
ST 63-755 TOP	72010 015 0000	Service Manual	CUC 6360	94
	72010 015 0000	Service Manual		
ST 63-755 TOP/LOG	72010 015 0100	1st Supplement	CUC 6360	95
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
ST 63-755/9 TOP	72010 015 0000	Service Manual	CUC 6360	94
	72010 015 0000	Service Manual		
ST 63-755/9 TOP/LOG	72010 015 0100	1st Supplement	CUC 6360	96
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
	72010 015 0600	7th Supplement		
ST 63-760/9 DPL	72010 014 7000	Service Manual	CUC 7861	94
ST 63-761 TOP	72010 015 0000	Service Manual	CUC 6365	94
ST 63-761/9 TOP	72010 015 0000	Service Manual	CUC 6365	94
ST 63-780 NIC/TOP	72010 020 7000	Service Manual	CUC 2031 N	97
ST 63-780 text	72010 020 7000	Service Manual	CUC 2031	97
ST 63-800 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
ST 63-800/9 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
ST 63-875 DPL/FT	72010 020 7000	Service Manual	CUC 2050 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
ST 70-100 IDTV	72010 014 2000	Service Manual	CUC 1824	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
ST 70-150 IDTV	72010 014 2400	4th Supplement	CUC 1824	95
	72010 014 2000	Service Manual		
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
ST 70-155 IDTV	72010 014 2300	3rd Supplement	CUC 1824	94
	72010 014 2400	4th Supplement		
	72010 014 2000	Service Manual		
ST 70-155/9 IDTV	72010 014 2100	1st Supplement	CUC 1822	94
	72010 014 2000	Service Manual		
	72010 014 2100	1st Supplement		
ST 70-160 IDTV	72010 014 2100	1st Supplement	CUC 1824	95
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
	72010 014 2500	5th Supplement		
ST 70-160/9 IDTV	72010 014 2000	Service Manual	CUC 1824	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
	72010 014 2300	3rd Supplement		
	72010 014 2400	4th Supplement		
ST 70-200 IDTV	72010 014 2500	5th Supplement	CUC 1824	95
	72010 014 2000	Service Manual		
	72010 021 1000	Service Manual		
	72010 021 1200	2nd Supplement		
ST 70-255 IDTV/LOG	72010 021 1300	3rd Supplement	CUC 1836	98
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
ST 70-255/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825	96
	72010 019 3000	Service Manual		
ST 70-270 IDTV	72010 019 3000	Service Manual	CUC 1825	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
	72010 019 3300	3rd Supplement		
ST 70-270 IDTV	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		

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TV Model	Part No.	Type	Chassis	Year
ST 70-270/8 IDTV	72010 019 3000	Service Manual	CUC 1825	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
	72010 019 3300	3rd Supplement		
ST 70-270/8 IDTV	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
ST 70-278 IDTV	72010 019 3000	Service Manual	CUC 1825	98
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
	72010 019 3300	3rd Supplement		
ST 70-278 IDTV	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
ST 70-280 IDTV	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
ST 70-280 IDTV	72010 021 1700	7th Supplement	CUC 1836	98
	72010 021 1000	Service Manual		
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
ST 70-600 text	72010 020 7000	Service Manual	CUC 2030	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7000	Service Manual		
ST 70-651/9 TOP	72010 015 0000	Service Manual	CUC 6360	94
ST 70-675 TOP	72010 011 4000	Service Manual	CUC 5361	94
	72010 011 4200	2nd Supplement		
ST 70-700 FR	72010 020 8000	Service Manual	CUC 2030	97
ST 70-700 NIC/FT	72010 020 7000	Service Manual	CUC 2030 N	97
	72010 020 7100	1st Supplement		
ST 70-700 NIC/text	72010 020 7000	Service Manual	CUC 2030 N	97
ST 70-700 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N	97
ST 70-700 text	72010 020 7000	Service Manual	CUC 2030	97
ST 70-705 NIC/TEXT	72010 020 7000	Service Manual	CUC 2030 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
ST 70-705 TOP	72010 015 0000	Service Manual	CUC 6360	94
ST 70-705/8 text	72010 016 9000	Service Manual	CUC 6330	95
ST 70-705/9 TOP	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
ST 70-705/9 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
ST 70-710 DPL/NIC/FT	72010 020 7000	Service Manual	CUC 2040 N	97
	72010 020 7100	1st Supplement		
ST 70-710 NIC/text	72010 020 7000	Service Manual	CUC 2030 N	97
	72010 020 7100	1st Supplement		
ST 70-715 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
ST 70-720/8 text	72010 016 9000	Service Manual	CUC 6330	96
ST 70-721/8 text	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
ST 70-725/8 FT/GB	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
ST 70-725/8 text	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
ST 70-728 text	72010 016 9000	Service Manual	CUC 6330	96
ST 70-745 text	72010 016 9100	1st Supplement	CUC 6330	96
ST 70-745 text	72010 016 9000	Service Manual	CUC 6330	94
ST 70-750 text	72010 016 9000	Service Manual	CUC 6330	95
ST 70-750/9 TOP	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
ST 70-755 DPL	72010 020 7000	Service Manual	CUC 2040 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
ST 70-755 TOP LOG	72010 015 0000	Service Manual	CUC 6360	94
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
ST 70-755 TOP+SAT	72010 015 0000	Service Manual	CUC 6360	94
ST 70-755/9 TOP	72010 015 0000	Service Manual	CUC 6360	94
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
ST 70-755/9 TOP LOG	72010 015 0300	3rd Supplement	CUC 6360	94
	72010 015 0400	4th Supplement		
	72010 015 0000	Service Manual		
	72010 015 0100	1st Supplement		

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

TV Model	Part No.	Type	Chassis	Year
ST 70-755/9/DPL/LOG	72010 018 7000	Service Manual	CUC 6469	96
ST 70-760 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
ST 70-770 text	72010 016 9000	Service Manual	CUC 6330	94
	72010 016 9100	1st Supplement		
	72010 016 9200	2nd Supplement		
	72010 016 9300	3rd Supplement		
ST 70-778 text	72010 016 9000	Service Manual	CUC 6330	94
	72010 016 9100	1st Supplement		
	72010 016 9200	2nd Supplement		
	72010 016 9300	3rd Supplement		
ST 70-780 FR/TOP	72010 020 8000	Service Manual	CUC 2030	97
ST 70-780 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N	97
ST 70-780 text	72010 020 7000	Service Manual	CUC 2030 N	97
ST 70-788	72010 020 7000	Service Manual	CUC 2030	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
ST 70-798 text	72010 020 7000	Service Manual	CUC 2030	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
ST 70-800 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
ST 70-800/9 TOP/LO	72010 015 0000	Service Manual	CUC 6360	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
ST 70-809	72010 015 0000	Service Manual	CUC 6360	96
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
	72010 015 0400	4th Supplement		
	72010 015 0500	5th Supplement		
	72010 015 0600	6th Supplement		
ST 70-810 DPL	72010 020 7000	Service Manual	CUC 2050 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
	72010 020 7000	Service Manual		
ST 70-819 NIC/TOP	72010 020 7100	1st Supplement	CUC 2050 N	98
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
	72010 021 1000	Service Manual		
ST 70-869 IDTV	72010 021 1200	2nd Supplement	CUC 1836	98
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
	72010 021 1700	7th Supplement		
ST 70-869 IDTV	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
ST 70-869 IDTV	72010 021 1700	7th Supplement	CUC 1826	96
	72010 019 3000	Service Manual		
	72010 019 3100	1st Supplement		
ST 70-875 DPL/FT	72010 020 7000	Service Manual	CUC 2050 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
ST 70-907 text	72010 011 4000	Service Manual	CUC 5360	94
	72010 011 4100	1st Supplement		
	72010 011 4200	2nd Supplement		
ST 70-94 text	72010 011 4000	Service Manual	CUC 5360	94
	72010 011 4100	1st Supplement		
ST 70-95 TOP	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
ST 70-97 IDTV	72010 019 3000	Service Manual	CUC 1825	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
ST 7004	72010 015 0000	Service Manual	CUC 6360	94
ST 72-01 IDTV	72010 019 3000	Service Manual	CUC 1826	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
	72010 019 3300	3rd Supplement		
ST 72-160/9 IDTV	72010 014 2000	Service Manual	CUC 1822	94
	72010 014 2100	1st Supplement		

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

TV Model	Part No.	Type	Chassis	Year
ST 72-161 IDTV	72010 014 2000	Service Manual	CUC 1822	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
ST 72-161/9 IDTV	72010 014 2000	Service Manual	CUC 1822	95
	72010 014 2100	1st Supplement		
	72010 014 2200	2nd Supplement		
ST 72-1772 TOP	72010 015 0000	Service Manual	CUC 6365	94
ST 72-1772/9 TOP	72010 015 0000	Service Manual	CUC 6365	94
ST 72-261 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825	96
ST 72-261/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	96
ST 72-700 TOP	72010 020 7000	Service Manual	CUC 2051 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
ST 72-760 MD/TOP	72010 014 0000	Service Manual	CUC 5365	94
ST 72-760 text	72010 016 9000	Service Manual	CUC 6331	96
	72010 016 9100	1st Supplement		
ST 72-760/8 text	72010 016 9000	Service Manual	CUC 6331	96
	72010 016 9100	1st Supplement		
ST 72-761 SAT	72010 014 0000	Service Manual	CUC 6365	94
ST 72-761/9 TOP	72010 015 0000	Service Manual	CUC 6365	94
ST 72-762 TOP	72010 015 0000	Service Manual	CUC 6365	95
	72010 015 0100	1st Supplement		
ST 72-762/9 TOP	72010 015 0000	Service Manual	CUC 6365	95
	72010 015 0100	1st Supplement		
ST 72-860 FR /TOP	72010 020 8000	Service Manual	CUC 2031 F	97
ST 72-860 NIC/TOP	72010 020 7000	Service Manual	CUC 2031 N	97
ST 72-860 TOP	72010 020 7000	Service Manual	CUC 2031	97
ST 72-865 NIC/TOP	72010 020 7000	Service Manual	CUC 2031 N	97
	72010 020 7100	1st Supplement		
ST 84 - 896 FR / TOP	72010 020 8000	Service Manual	CUC2080 F	98
	72010 020 8200	2nd Supplement		
ST 84-796/9 TOP/LOG	72010 017 7000	Service Manual	CUC 6380	94
ST 84-896 NIC/TOP	72010 020 7000	Service Manual	CUC 2080 N	98
	72010 020 7100	1st Supplement		
	72010 020 7300	3rd Supplement		
	72010 020 7400	4th Supplement		
ST70-860 FR/TOP	72010 020 8000	Service Manual	CUC 2030 F	98
	72010 020 8200	2nd Supplement		
	72010 020 8300	3rd Supplement		
SYDNEY 100 SE 7020 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
SYDNEY 100 SE 7021 IDTV/PIP	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
SYDNEY 100/8 SE 7020 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
Sydney 72 ST 1772 TOP/LOG	72010 015 0000	Service Manual	CUC 6360	95
	72010 015 0100	1st Supplement		
	72010 015 0200	2nd Supplement		
	72010 015 0300	3rd Supplement		
Sydney ST 872 text	72010 016 9000	Service Manual	CUC 6331	96
	72010 016 9100	1st Supplement		
Sydney ST 872/8 text	72010 016 9000	Service Manual	CUC 6331	96
	72010 016 9100	1st Supplement		
Sydney100 SE 7020 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
Sydney100/8 SE 7020/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
T 20-6210/4 text	72010 019 8000	Service Manual	CUC 400	96
T 20-6210/6	72010 019 8000	Service Manual	CUC 400	96
T 20-6210/6 text	72010 019 8000	Service Manual	CUC 400	96
T 20-6210/8	72010 019 8000	Service Manual	CUC 400	96
T 20-6210/8 text	72010 019 8000	Service Manual	CUC 400	96
T 21-6210/4	72010 019 8000	Service Manual	CUC 400	96
T 21-6210/4 text	72010 019 8000	Service Manual	CUC 400	96
T 21-6210/6	72010 019 8000	Service Manual	CUC 400	96
T 21-6210/6 text	72010 019 8000	Service Manual	CUC 400	96
T 21-6210/8	72010 019 8000	Service Manual	CUC 400	96
T 21-6210/8 text	72010 019 8000	Service Manual	CUC 400	96
T 44-64/ASIS	72010 014 8000	Service Manual	CUC 6301	95
	72010 014 8100	1st Supplement		
T 45-845 FR	72010 016 6000	Service Manual	CUC 7300 F	95
	72010 017 8000	Service Manual		
T 51-070	72010 017 8100	1st Supplement	CUC 7301	95

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

TV Model	Part No.	Type	Chassis	Year
T 51-071	72010 019 4000	Service Manual	CUC 7303	96
T 51-3035 text	72010 019 4000	Service Manual	CUC 7303	97
	72010 019 4100	1st Supplement		
	72010 019 4200	2nd Supplement		
T 51-640 FT/GB	72010 013 6000	Service Manual	CUC 6300	94
T 51-711 text	72010 017 8000	Service Manual	CUC 7301	94
	72010 017 8100	1st Supplement		
T 51-720 text	72010 019 4000	Service Manual	CUC 7303	96
T 51-720 text/GB	72010 019 4000	Service Manual	CUC 7303	96
T 51-721/5	72010 019 8000	Service Manual	CUC 400	96
T 51-721/5 text	72010 019 8000	Service Manual	CUC 400	96
	72010 017 8000	Service Manual		
T 51-730 MegASIS	72010 017 8100	1st Supplement	CUC 7301	97
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
	72010 017 8400	4th Supplement		
	72010 017 8500	5th Supplement		
T 51-730 MegASIS	72010 017 8000	Service Manual	CUC 7301	97
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
	72010 017 8400	4th Supplement		
T 51-730 text	72010 017 8000	Service Manual	CUC 7301	94
	72010 017 8100	1st Supplement		
T 51-730 text ASIS	72010 017 8000	Service Manual	CUC 7301	96
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
T 51-730/5 MegASIS	72010 017 8000	Service Manual	CUC 7301	97
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
	72010 017 8400	4th Supplement		
T 51-730/5 text	72010 017 8000	Service Manual	CUC 7301	95
	72010 017 8100	1st Supplement		
T 51-731 text	72010 019 4000	Service Manual	CUC 7303	96
T 51-731/5 text	72010 017 8000	Service Manual	CUC 7301	95
T 51-732/5 text	72010 019 4000	Service Manual	CUC 7303	96
T 51-830 MULTICCN	72010 024 0000	Service Manual	CUC 2003 H	98
T 51-843 FR	72010 017 7000	Service Manual	CUC 7301 F	94
T 51-846 FR	72010 019 6000	Service Manual	CUC 7303 F	96
T 55 - 842 FR	72010 019 6000	Service Manual	CUC 7303 FR	98
	72010 019 6300	3rd Supplement		
	72010 019 6400	4th Supplement		
T 55 - 843 FR MegASIS	72010 018 5000	Service Manual	CUC 7301 F ASIS	98
	72010 018 5100	1st Supplement		
T 55 - 847 FR / TEXT	72010 019 6000	Service Manual	CUC 7303 FR	98
	72010 019 6300	3rd Supplement		
	72010 019 6400	4th Supplement		
T 55-3035	72010 019 4000	Service Manual	CUC 7303	97
	72010 019 4100	1st Supplement		
	72010 019 4200	2nd Supplement		
	72010 019 4300	3rd Supplement		
T 55-3035 text	72010 019 4000	Service Manual	CUC 7303	97
	72010 019 4100	1st Supplement		
	72010 019 4200	2nd Supplement		
T 55-64 FR/FM/CL	72010 016 4000	Service Manual	CUC 6301 F	95
T 55-64/4 ASIS	72010 014 8000	Service Manual	CUC 6301	96
	72010 014 8100	1st Supplement		
T 55-64/4 FM/CL	72010 014 8000	Service Manual	CUC 6301	94
T 55-645 text	72010 017 6000	Service Manual	G 1000	94
T 55-645 text	72010 017 6000	Service Manual	G 1000	95
T 55-730	72010 017 8000	Service Manual	CUC 7301	94
	72010 017 8100	1st Supplement		
T 55-730 MegASIS	72010 017 8000	Service Manual	CUC 7301	97
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
	72010 017 8400	4th Supplement		
T 55-730 text	72010 017 8000	Service Manual	CUC 7301	96
	72010 017 8100	1st Supplement		
T 55-730 text /GB	72010 017 8000	Service Manual	CUC 7301	96
	72010 017 8100	1st Supplement		
T 55-730 text ASIS	72010 017 8000	Service Manual	CUC 7301	96
	72010 017 8100	1st Supplement		
T 55-730/5 MegASIS	72010 017 8000	Service Manual	CUC 7301	97
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
	72010 017 8400	4th Supplement		
T 55-730/5 text	72010 017 8000	Service Manual	CUC 7301	94
	72010 017 8100	1st Supplement		

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

TV Model	Part No.	Type	Chassis	Year
T 55-730/5 text ASIS	72010 017 8000	Service Manual	CUC 7301	96
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
T 55-730/5 text ICN	72010 017 8000	Service Manual	CUC 7301	97
	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
	72010 017 8300	3rd Supplement		
T 55-731 FT/GB	72010 019 4000	Service Manual	CUC 7303	96
	72010 019 4000	Service Manual	CUC 7303	96
T 55-731 FT/IR	72010 019 4100	1st Supplement	CUC 7303	96
T 55-731 text	72010 019 4000	Service Manual	CUC 7303	96
	72010 017 8000	Service Manual	CUC 7301	96
T 55-731/5 text	72010 017 8100	1st Supplement		
	72010 017 8200	2nd Supplement		
T 55-732/5 text	72010 019 4000	Service Manual	CUC 7303	96
T 55-733/5 text	72010 019 4000	Service Manual	CUC 7303	96
T 55-740 SAT	72010 015 4000	Service Manual	CUC 7300	94
T 55-740 TOP	72010 015 4000	Service Manual	CUC 7300	94
T 55-740/6 TOP	72010 017 4000	Service Manual	CUC 7302	94
T 55-830 MULT1 MEGASIS	72010 024 0000	Service Manual	CUC 2003 H	98
T 55-830 MULTICIN	72010 024 0000	Service Manual	CUC 2003 H	98
T 55-840 TOP/SAT	72010 024 0000	Service Manual	CUC 2003	98
T 55-841 FR	72010 019 6000	Service Manual	CUC 7303 F	96
T 55-843 FR	72010 017 7000	Service Manual	CUC 7301 F	94
T 55-845 FR	72010 016 6000	Service Manual	CUC 7300 F	95
T 55-846 FR	72010 019 6000	Service Manual	CUC 7303 F	97
	72010 019 6100			
	72010 019 6200			
T 5570	72010 017 6000	Service Manual	G 1000	94
T 5570 text	72010 017 6000	Service Manual	G 1000	94
T 70-740 FT/GB	72010 013 8000	Service Manual	CUC 6310	96
	72010 013 8100	1st Supplement		
T 70-740 text	72010 013 8000	Service Manual	CUC 6310	96
	72010 013 8100	1st Supplement		
	72010 013 8200	2nd Supplement		
T 70-740/4 TOP	72010 013 8000	Service Manual	CUC 6310	96
	72010 013 8100	1st Supplement		
	72010 013 8200	2nd Supplement		
T55-830 FT/GB	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
	72010 019 4700	7th Supplement		
T55-830 FT/IR	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
	72010 019 4700	7th Supplement		
T55-830/ text	72010 019 4000	Service Manual	CUC 7303	98
	72010 019 4600	6th Supplement		
T55-830/4 text	72010 019 4700	7th Supplement	CUC 7303	98
	72010 019 4000	6th Supplement		
Trento SE 7026 PALplus	72010 019 9100	Service Manual	CUC 1952	97
TV-MAX E 55-700 TOP/LOG	72010 017 5000	Service Manual	CUC 6450	94
TV-MAX E 55-700/9 TOP/LOG	72010 017 5000	Service Manual	CUC 6450	94
TVR 3700	72010 517 3000	Service Manual		94
TVR 3700 FR	72010 017 0500	Service Manual		95
WIEN 100 SE 6320 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836	98
	72010 021 1200	2nd Supplement		
	72010 021 1300	3rd Supplement		
	72010 021 1400	4th Supplement		
	72010 011 4000	Service Manual		
WIEN S ST 1663 TOP	72010 011 4100	1st Supplement	CUC 5361	94
	72010 011 4200	2nd Supplement		
Wien100 SE 6320 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826	97
	72010 019 3100	1st Supplement		
	72010 019 3200	2nd Supplement		
XS 55-1	72010 016 8000	Service Manual	CUC 7350	94
XS 55-9	72010 016 8000	Service Manual	CUC 7350	94
	72010 016 8000	1st Supplement		
XS 63/1	72010 011 4000	Service Manual	CUC 6360	94
XS 63/2	72010 011 4100	1st Supplement	CUC 6330	94
XS 63/81	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
XS 63/9	72010 015 0000	Service Manual	CUC 6360	94
XS 70/1	72010 015 0000	Service Manual	CUC 6360	94
XS 70/81	72010 016 9000	Service Manual	CUC 6330	96
	72010 016 9100	1st Supplement		
XS 70/9	72010 015 0000	Service Manual	CUC 6360	94

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals from 1994 onwards sorted by CUC

Chassis		Part No.	Type	Year
CUC 1800	DIGI 5	72010 014 2000	Service Manual	95
		72010 014 2100	1st Supplement	
		72010 014 2200	2nd Supplement	
CUC 1805	DIGI BASIC	72010 019 3000	Service Manual	97
		72010 019 3100	1st Supplement	
		72010 019 3200	2nd Supplement	
CUC 1806	DIGI BASIC ++	72010 021 1000	Service Manual	98
		72010 021 1200	2nd Supplement	
		72010 021 1400	4th Supplement	
		72010 021 1600	6th Supplement	
CUC 1822	DIGI 5	72010 014 2000	Service Manual	96
		72010 014 2100	1st Supplement	
		72010 014 2200	2nd Supplement	
		72010 014 2300	3rd Supplement	
		72010 014 2400	4th Supplement	
		72010 014 2500	5th Supplement	
CUC 1824	DIGI 5	72010 014 2600	6th Supplement	95
		72010 014 2000	Service Manual	
		72010 014 2100	1st Supplement	
		72010 014 2200	2nd Supplement	
		72010 014 2300	3rd Supplement	
CUC 1825	DIGI BASIC	72010 019 3000	Service Manual	98
		72010 019 3100	1st Supplement	
		72010 019 3200	2nd Supplement	
		72010 019 3300	3rd Supplement	
		72010 019 3600	6th Supplement	
		72010 019 3000	Service Manual	
CUC 1826	DIGI BASIC	72010 019 3100	1st Supplement	98
		72010 019 3200	2nd Supplement	
		72010 019 3300	3rd Supplement	
		72010 019 3600	6th Supplement	
CUC 1827	DIGI BASIC	72010 019 3000	Service Manual	96
		72010 019 3100	1st Supplement	
CUC 1828	DIGI BASIC ++	72010 021 1000	Service Manual	98
		72010 021 1200	2nd Supplement	
		72010 021 1400	4th Supplement	
CUC 1829	DIGI BASIC ++	72010 021 1600	6th Supplement	98
		72010 021 1000	Service Manual	
CUC 1830	DIGI BASIC ++	72010 021 1200	2nd Supplement	98
		72010 021 1400	4th Supplement	
		72010 021 1600	6th Supplement	
		72010 021 1000	Service Manual	
CUC 1836	DIGI BASIC ++	72010 021 1200	2nd Supplement	98
		72010 021 1300	3rd Supplement	
		72010 021 1400	4th Supplement	
		72010 021 1700	7th Supplement	
CUC 1842	DIGI 6	72010 019 9000	Service Manual	97
		72010 014 2000	Service Manual	
		72010 014 2100	1st Supplement	
		72010 014 2200	2nd Supplement	
		72010 014 2300	3rd Supplement	
		72010 014 2400	4th Supplement	
CUC 1852	DIGI 5	72010 014 2500	5th Supplement	96
		72010 014 2600	6th Supplement	
		72010 014 2000	Service Manual	
		72010 014 2100	1st Supplement	
		72010 014 2200	2nd Supplement	
		72010 014 2300	3rd Supplement	
CUC 1882	DIGI 5	72010 014 2400	4th Supplement	94
		72010 014 2000	Service Manual	
		72010 014 2100	1st Supplement	
		72010 014 2200	2nd Supplement	
CUC 1893	DIGI 5	72010 014 2300	3rd Supplement	94
		72010 014 2400	4th Supplement	
		72010 014 2100	1st Supplement	
		72010 014 2200	2nd Supplement	
CUC 1894	DIGI 6	72010 019 9000	Service Manual	97
		72010 019 9100	1st Supplement	
		72010 019 9200	2nd Supplement	
CUC 1929	DIGI BASIC ++	72010 021 1000	Service Manual	98
		72010 021 1200	2nd Supplement	
		72010 021 1300	3rd Supplement	
		72010 021 1400	4th Supplement	
CUC 1951	DIGI 5 / 16:9	72010 021 1700	7th Supplement	95
		72010 016 1000	Service Manual	
CUC 1952	DIGI 6	72010 019 9000	Service Manual	98
		72010 019 9100	1st Supplement	
		72010 019 9200	2nd Supplement	
		72010 019 9400	4th Supplement	
CUC 1961	DIGI 5 / 16:9	72010 018 9000	Service Manual	96
CUC 1981	DIGI 4 PAL PLUS	72010 016 0000	Service Manual	96
CUC 1982	DIGI 5 / 16:9	72010 016 0100	1st Supplement	95
		72010 016 1000	Service Manual	
CUC 1983	DIGI 6	72010 019 9000	Service Manual	98
		72010 019 9100	1st Supplement	
		72010 019 9200	2nd Supplement	
		72010 019 9400	4th Supplement	

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Chassis		Part No.	Type	Year
CUC 1984	DIGI 6	72010 019 9000	Service Manual	98
		72010 019 9100	1st Supplement	
		72010 019 9200	2nd Supplement	
		72010 019 9400	4th Supplement	
CUC 2003/H		72010 024 0000	Service Manual	98
CUC 2020		72010 021 4000	Service Manual	98
CUC 2020 FR		72010 021 8000	Service Manual	98
		72010 021 8100	1st Supplement	
CUC 2020 N		72010 021 4000	Service Manual	98
CUC 2030		72010 020 7000	Service Manual	98
		72010 020 7100	1st Supplement	
		72010 020 7300	3rd Supplement	
CUC 2030 F		72010 020 8000	Service Manual	98
		72010 020 8200	2nd Supplement	
		72010 020 8300	3rd Supplement	
CUC 2030 N		72010 020 7000	Service Manual	98
		72010 020 7100	1st Supplement	
		72010 020 7300	3rd Supplement	
		72010 020 7400	4th Supplement	
CUC 2031		72010 020 7000	Service Manual	97
CUC 2031 F		72010 020 7100	1st Supplement	97
		72010 020 8000	Service Manual	
CUC 2031 N		72010 020 7000	Service Manual	97
		72010 020 7100	1st Supplement	
CUC 2040 India		72010 020 7000	Service Manual	98
		72010 020 7100	1st Supplement	
		72010 020 7300	3rd Supplement	
CUC 2040 N		72010 020 7000	Service Manual	98
		72010 020 7100	1st Supplement	
CUC 2050 N		72010 020 7300	3rd Supplement	98
		72010 020 7400	4th Supplement	
		72010 020 7000	Service Manual	
		72010 020 7100	1st Supplement	
		72010 020 7300	3rd Supplement	
CUC 2051 N		72010 020 7400	4th Supplement	98
		72010 020 7000	Service Manual	
		72010 020 7100	1st Supplement	
		72010 020 7300	3rd Supplement	
CUC 2058 N		72010 020 7000	Service Manual	98
		72010 020 7100	1st Supplement	
		72010 020 7300	3rd Supplement	
		72010 020 7400	4th Supplement	
CUC 2059 F		72010 020 8000	Service Manual	98
		72010 020 8200	2nd Supplement	
		72010 020 8300	3rd Supplement	
		72010 020 7000	Service Manual	
CUC 2059 N		72010 020 7100	1st Supplement	98
		72010 020 7300	3rd Supplement	
		72010 020 7400	4th Supplement	
		72010 020 7000	Service Manual	
CUC 2080 N		72010 020 7100	1st Supplement	98
		72010 020 7300	3rd Supplement	
		72010 020 7400	4th Supplement	
		72010 019 8000	Service Manual	
CUC 400		72010 016 2000	Service Manual	96
CUC 5350 F		72010 016 2100	1st Supplement	95
		72010 011 4000	Service Manual	
CUC 5360		72010 011 4100	1st Supplement	94
		72010 011 4200	2nd Supplement	
CUC 6301		72010 014 8000	Service Manual	95
		72010 014 8100	1st Supplement	
CUC 6301 F		72010 016 4000	Service Manual	95
CUC 6310		72010 013 8000	Service Manual	96
		72010 013 8100	1st Supplement	
		72010 013 8200	2nd Supplement	
CUC 6310 F		73720 814 5600	Service Manual	96
		72010 016 9000	1st Supplement	
CUC 6330		72010 016 9100	Service Manual	94
		72010 016 9200	1st Supplement	
		72010 016 9300	2nd Supplement	
		72010 016 9400	3rd Supplement	
CUC 6331		72010 016 9000	Service Manual	96
		72010 016 9100	1st Supplement	
CUC 6360		72010 015 0000	Service Manual	96
		72010 015 0100	1st Supplement	
		72010 015 0200	2nd Supplement	
		72010 015 0300	3rd Supplement	
		72010 015 0400	4th Supplement	
		72010 015 0500	5th Supplement	
		72010 015 0600	6th Supplement	
		72010 015 0700	7th Supplement	
	72010 015 0800	8th Supplement		

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Chassis	Part No.	Type	Year
CUC 6361	72010 015 0000	Service Manual	95
	72010 015 0100	1st Supplement	
	72010 015 0200	2nd Supplement	
	72010 015 0300	3rd Supplement	
	72010 015 0400	4th Supplement	
	72010 015 0500	5th Supplement	
	72010 015 0600	6th Supplement	
	72010 015 0700	7th Supplement	
CUC 6365	72010 015 0000	Service Manual	95
	72010 015 0100	1st Supplement	
	72010 015 0200	2nd Supplement	
	72010 015 0300	3rd Supplement	
	72010 015 0400	4th Supplement	
	72010 015 0500	5th Supplement	
	72010 015 0600	6th Supplement	
	72010 015 0700	7th Supplement	
CUC 6369	72010 015 0000	Service Manual	96
	72010 015 0100	1st Supplement	
	72010 015 0200	2nd Supplement	
	72010 015 0300	3rd Supplement	
	72010 015 0400	4th Supplement	
	72010 015 0500	5th Supplement	
CUC 6380	72010 017 7000	Service Manual	94
CUC 6450	72010 017 5000	Service Manual	94
CUC 6460	72010 018 7000	Service Manual	96
CUC 6469	72010 018 7000	Service Manual	96
CUC 7300	72010 015 4000	Service Manual	95
	72010 015 4100	1st Supplement	
	72010 015 4200	2nd Supplement	
CUC 7300 F	72010 016 6000	Service Manual	95
CUC 7301	72010 017 8000	Service Manual	97
	72010 017 8100	1st Supplement	
	72010 017 8200	2nd Supplement	
	72010 017 8400	4th Supplement	
	72010 017 8500	5th Supplement	
CUC 7301 F	72010 018 5000	Service Manual	94
CUC 7301 F ASIS	72010 018 5000	Service Manual	98
CUC 7302	72010 018 5100	1st Supplement	98
CUC 7303	72010 017 4000	Service Manual	94
	72010 019 4000	Service Manual	
	72010 019 4100	1st Supplement	
	72010 019 4200	2nd Supplement	
	72010 019 4300	3rd Supplement	
	72010 019 4600	6th Supplement	
	72010 019 4700	7th Supplement	
	72010 019 4800	8th Supplement	
CUC 7303 F	72010 019 6000	Service Manual	97
	72010 019 6200	2nd Supplement	
	72010 019 6300	3rd Supplement	
	72010 019 6400	4th Supplement	
CUC 7303 MINERVA	72010 020 5000	Service Manual	97
CUC 7305	72010 019 5000	Service Manual	98
CUC 7350	72010 019 5100	1st Supplement	94
	72010 016 8000	Service Manual	
	72010 016 8100	1st Supplement	
	72010 016 8300	3rd Supplement	
	72010 016 8500	5th Supplement	
	72010 016 8700	7th Supplement	
CUC 7861	72010 014 7000	Service Manual	94
CUC 7880	72010 013 1000	Service Manual	94
CUC 7890	72010 013 1100	1st Supplement	94
	72010 013 1100	1st Supplement	
CUC2080 F	72010 020 8000	Service Manual	98
G 1000	72010 020 8200	2nd Supplement	98
	72010 017 6000	Service Manual	
G 1000 St.	72010 017 6100	1st Supplement	96
	72010 019 1000	Service Manual	
SNR 105 microSAT	72010 020 9000	Service Manual	98
	72010 020 9100	1st Supplement	
STC 1200	72010 023 3000	Service Manual.	98
STR 600 AP	72010 021 2000	Service Manual	98
STR 600 AP	72010 021 2000	Service Manual	98
STR 600 AP / F / E / P	72010 021 2100	1st Supplement	98
STR 611	72010 021 3000	Service Manual	98
	72010 021 3100	1st Supplement	
STR 6122 TWIN	72010 023 4000	Service Manual	98

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

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Module Chart GV 400 to GV 437 (Part 2)

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		RP 10	75988 000 1000	●												●																					
RP 13	75988 000 1100		●																		●																
RP 100	75988 000 1400							●																													
RP 30	27520 160 0100				●				●	●						●	●					●	●														
RP 33	27520 171 0100																																				
RP 35	27520 161 0100					●																															
RT 130	75988 000 1400			●																																	
RT 151	75988 033 2200																				●																
RT 230	75988 000 1500																	●																			
RP 409	75981 397 2800												●																								
RT 750/131	75988 035 0700																																				

Module Chart GV 4000 to GV 4200

Designation	Part No.	GV 4000 VPS	GV 4001	GV 4002 VPS	GV 4003 VPS	GV 4010 SV-VPT	GV 4032 SV	GV 4032 VPS	GV 4192 SV	GV 4200 SV-VPT	MV 4005	MV 4105	SE 4100 VPS	SE 4104 SV	SE 4120 SV	
Keyboard Control	27599 002 0000	•														
Keyboard Control	27599 002 0600		•													
Keyboard Control	27599 002 0700						•									
Keyboard Control	27599 002 0800					•										
Keyboard Control	27599 002 1100									•				•		
Keyboard Control	27599 002 1400			•												
Keyboard Control	27599 002 1600														•	
Keyboard Control	27599 002 1700									•						
Keyboard Control	27599 002 1800													•		
Keyboard Control	27599 002 2900				•											
Chassis Board	27599 001 0000															
Chassis Board	27599 001 0200						•	•						•	•	
Chassis Board	27599 001 0700						•			•						
Chassis Board	27599 001 1200									•					•	
Chassis Board	27599 001 1300				•						1) 1)					
Chassis Board	27599 001 2700	•		•	•						2) 2)					
Chassis Board	27599 001 3400															
Head Amplifier	27599 004 0000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Head Amplifier	27599 004 0100		•	•	•		•	•	•	•	•	•	•	•	•	•
Tape Deck Sensor	75988 001 1800	•	•	•							•	•				
Tape Deck Sensor	75988 001 2200				•											
Modulator	75988 000 2700										•	•				
Modulator	75988 006 0000						•	•	•	•			•	•	•	•
MSIO/VPS Board	75988 006 0300						•	•	•	•			•	•	•	•
Power Supply	27599 003 0000	•			•		•	•	•	•	•	•				
Power Supply	27599 003 0200			•	•									•	•	•
Power Supply	27599 003 0500		•	•	•											
Power Supply	27599 003 0700					•				•						
Tuner	27512 201 0100						•	•	•	•				•	•	•
Tuner	75988 000 3000										•	•				
RP 30	27520 160 0100						•	•	•	•				•	•	•
RP 35	27520 161 0100						•			•						
RP 10	75988 000 1000	•		•												
RP 10 Minerva	75988 000 1200															
RP 13 Minerva	75988 000 1300										•					
RP 100	75988 000 1400		•	•												

1) Chassis boards up to production code "WD 29"

2) Chassis boards from production code "WD 30"

Module Chart GV 440 to GV 470

Designation	Part No.	GV 440 VPS	GV 440 NIC	GV 450	GV 450 VPT	GV 450 GB	GV 450 NIC	GV 450 OIRT	GV 460 VPT	GV 460 NIC	GV 464 HIFI	GV 464 NIC	GV 464 OIRT	GV 465 EURO	GV 469 M	GV 470 PC	GV 470 S NIC	GV 470 S VPT	GV 4592 VPT	GV 4592 SV-VPT	
		AV-socket Board PC06	no spare part																		
Archive	27599 008 5000																				
Keyboard Control PC01	no spare part																				
Keyboard Control PC02	no spare part																				
Keyboard Control 1	27507 007 3000																				
Keyboard Control 1	27507 007 3100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Keyboard Control 1	27507 007 3200																				
Keyboard Control 1	27599 002 2400																				
Keyboard Control 1	27599 002 2700																				
Keyboard Control 2	27507 009 3000																				
Keyboard Control 2	27507 009 3100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Keyboard Control 2	27599 002 2500																				
Keyboard Control 2	27599 002 2800																				
Keyboard Control 3	no spare part *																				
Chassis Board	27507 001 3000																				
Chassis Board	27507 001 3200																				
Chassis Board	27507 001 3300																				
Chassis Board	27507 001 3400																				
Chassis Board	27507 001 3500																				
Chassis Board	27507 001 3600																				
Chassis Board	27507 001 3700																				
Chassis Board	27507 001 3800																				
Chassis Board	27507 001 3900																				
Chassis Board	27507 001 4000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chassis Board	27507 001 4100																				
Chassis Board	27599 001 2500																				
Chassis Board	27599 001 3000																				
Chassis Board	27599 001 3200																				
Chassis Board	27599 001 3300																				
Chassis Board PM01	no spare part																				
HIFI-Audio PF01	no spare part																				
HIFI-Sound PF02	no spare part																				
HIFI-Audio, SIF PM03	no spare part																				
Head Amplifier	27599 004 0300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Head Amplifier	27599 004 0400																				
Head Amplifier	27599 004 0500																				
Head Amplifier PH02	75981 318 3200																				
Tape Deck Sensor	74988 001 1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Deck Sensor	74988 011 6100																				
Multituner cpl.	75981 313 1600																				
Modulator	27512 101 0100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Modulator	27512 103 0100																				
Modulator	75981 318 3100																				
Modulator	75988 008 1000																				
Power Supply	27507 003 3000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Power Supply	27599 003 0400																				
Power Supply PS02	no spare part																				
Nicam PN01	75981 318 2500																				
Nicam-Decoder	27507 017 0100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
NTSC-IF PF3	no spare part																				
OIRT	72011 035 0000																				
Secam	27507 004 0100																				
Control Board PD01	no spare part																				
S-VHS	27599 008 0000																				
S-VHS	27599 008 0100																				
Tuner	29504 201 0200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tuner Board cpl.	75981 316 4400																				
RP 30	27520 160 0100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RP 33	27520 171 0100																				
RP 35	27520 161 0100																				
RP 469	75981 317 9100																				

* The keyboard control unit 3 is part of the keyboard control flap

Module Chart GV 500 to GV 565

Designation	Part No.	Module Chart																						
		GV 500 GB	GV 500 SV	GV 500 SV/1	GV 501 VPT	GV 505 EURO	GV 506 EURO	GV 509 M	GV 510 SV	GV 511	GV 515 EURO	GV 530 SV	GV 530 SV/1	GV 535 EURO	GV 540 GB	GV 540 HFI	GV 540 NIC	GV 545 EURO	GV 560 HFI	GV 560 HFI/5	GV 560 HFI LE	GV 560 NIC	GV 565 EURO	
Keyboard Control	27599 002 4200	•	•	•	•	•																		
Keyboard Control	27599 002 4400	•	•	•	•	•																		
Keyboard Control	27599 002 4500						•																	
Keyboard Control	27599 002 4600										•	•												
Keyboard Control	27599 002 4700						•																	
Keyboard Control	27599 002 5000											•	•		•	•	•							
Keyboard Control	27599 002 4800																	•	•	•	•	•	•	•
Keyboard Control 2	75988 031 8400														•	•	•							
Keyboard Control 2	*																		•			•	•	•
Chassis Board	27599 001 5800		•																					
Chassis Board	27599 001 5900					•					•													
Chassis Board	27599 001 6000		•																					
Chassis Board	27599 001 6100			•																				
Chassis Board	27599 001 6200											•												
Chassis Board	27599 001 6600						•																	
Chassis Board	27599 001 6800												•											
Chassis Board	27599 001 6900								•	•														
Chassis Board	27599 001 7200											•												
Chassis Board	27599 001 7400																							•
Chassis Board	27599 001 7500																	•						
Chassis Board	27599 001 7700															•	•							
Chassis Board	27599 001 7800														•									
Chassis Board	27599 001 8100																		•			•	•	•
Chassis Board	27599 001 8400					•																		
Chassis Board	27599 001 8800																					•		
Chassis Board 2	27588 028 1200	•	•	•					•			•												
Chassis Board 2	27588 028 1300					•	•																	
Chassis Board 2	27599 004 1000																							
Chassis Board 2	27599 004 1200																		•					
Chassis Board 2	27599 004 1300														•		•							
Chassis Board 2	27599 004 1400														•				•	•	•	•	•	•
Edit-Control	27599 032 1600																		•	•	•	•	•	•
Front Board	no spare part							•																
Head Amplifier	27599 004 0600												•	•										
Head Amplifier	27599 004 0700	•	•	•	•	•	•																	
Head Amplifier	27599 004 0900								•		•													
Head Amplifier	27599 004 1100																	•						
Head Amplifier	27599 004 1200																			•				
Head Amplifier	27599 004 1500																							•
Tape Deck Sensor	75988 001 1800	•	•	•	•	•		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•
Main Board	no spare part							•																
Modulator	27512 101 0100																							
Modulator	27512 103 0100																							
Modulator	75988 024 0400					•					•													
Modulator	75988 027 9700	•																						
Modulator	75988 032 7400		•	•	•	•					•	•	•											
Power Supply	27599 003 1100	•				•					•	•	•											
Power Supply	27599 003 1200		•	•	•	•						•	•											
Power Supply	27599 003 1400																							
Nicam-Decoder	27599 006 0100																							
Nicam-Decoder	27599 006 0200																							
O-Secam	27599 006 5100																							
O-VPT	27599 009 0000																							
O-VPT	27599 009 0100																							
Pre/Rec Amplifier	no spare part								•															
Synchro-Edit	75988 028 4500												•	•										
Teletext	27599 009 0000																							
Terminal Board	no spare part																							
Tuner	27512-201 0100	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Video Board	no spare part							•																
RP 500	75988 010 7100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RP 540	75988 010 7300						•																	

* integrated in the keyboard control flap, part no.

Module Chart GV 201-1, GV 25, GV 45, KV 5..., SE 51...

Designation	Part No.															
		GV 201-1	GV 25 SV /5	GV 45 SV /5	KV5001 VPS /5	KV5301 VPS /5	SE 5102 SV	SE 5104 SV	SE 5106 HIFI							
Keyboard Control	27599 002 4000		●	●												
Keyboard Control	27599 002 4300													●		
Keyboard Control	27599 002 4500													●		
Keyboard Control	27599 002 4700													●		
Keyboard Control	27599 002 5200	●														
Keyboard Control	27599 002 6100						●	●								
Keyboard Control 1	27599 002 5100														●	
Chassis Board	27599 001 5100							●								
Chassis Board	27599 001 5200		●													
Chassis Board	27599 001 6300													●		
Chassis Board	27599 001 6700													●		
Chassis Board	27599 001 7900														●	
Chassis Board	27599 001 8500	●														
Chassis Board 2	27588 028 1200													●	●	
Chassis Board 2	27599 004 1200														●	
Head Amplifier	27599 004 0600			●				●						●		
Head Amplifier	27599 004 0700	●	●	●										●		
Tape Deck Sensor	75988 018 2200	●	●	●										●	●	●
Tape Deck Sensor	75988 001 1800													●	●	●
Modulator	27512 101 0100														●	
Modulator	75988 024 0900		●	●												
Modulator	75988 032 7400													●	●	
Modulator	75988 324 0600	●														
Power Supply	27599 003 1000	●	●	●												
Power Supply	27599 003 1200													●	●	
Power Supply	27599 003 1400														●	●
Teletext	27599 009 0000														●	●
Tuner	27512 201 0100	●	●	●										●	●	●
RP 150	75988 324 0300	●	●	●												
RP 500	75988 010 7100													●	●	
RP 540	75988 010 7300														●	

Module Chart GV 600 to GV 690

Designation	Part No.																		
		GV 600 SV	GV 600 SV/1	GV 605 EURO	GV 609 M	GV 630 SV	GV 630 SV/1	GV 635 EURO	GV 640 HFI	GV 640 NIC	GV 645 EURO	GV 650 HFI	GV 660 HFI	GV 660 NIC	GV 665 EURO	GV 670 S NIC	GV 670S HFI	GV 690 S HFI	GV 690 S NIC
Tuner/Modulator	75988 035 5400																		
Tuner/Modulator	75988 038 3800																		
Tuner/Modulator	75988 039 4100	●	●			●	●												
Tuner/Amplifier	75988 038 7600			●			●												
RP 500	75988 010 7100	●	●			●	●		●	●									
RP 500 F	75988 010 7200				●						●								
RP 540	75988 010 7300								●										
RP 540 F	75988 010 7400													●					
RP 609M	75988 034 0000			●															

Module Chart GV 6000 to GV 6596

Designation	Part No.																		
		GV 6000 EURO	GV 6000 SV	GV 6000 SV/1	GV 6001 V+	GV 6066	GV 6096 SV	GV 6096 SV/1	GV 6300 EURO	GV 6300 SV	GV 6300 SV/1	GV 6386 VPT	GV 6400 EURO	GV 6400 HFI	GV 6400 HFI/5	GV 6400 NIC	GV 6401 NIC	GV 6596 HFI	GV 6596 NIC
Tuner/Modulator	75988-035 5400																		
Tuner/Modulator	75988-037 2100				●														
Tuner/Modulator	75988 037 2700	●							●										
Tuner/Modulator	75988 037 8700		●	●			●			●									
Tuner/Modulator	75988 038 8300												●						
Tuner/Modulator	75988 039 4100						●	●				●						●	●
RP 160	75988 010 9100		●	●	●	●				●	●			●	●	●	●	●	●
RP 160 F	75988 010 9200		●						●				●						
RP 500	75988 010 7100						●	●											
RP 540	75988 010 7300											●						●	●

Module Chart GVP 600, GV 26, GV 46, SE 61..

Designation	Part No.									
		GVP 600 TCN EURO	GV 26	GV 26 EURO	GV 26 VPS	GV 46	GV 46 VPS	SE 6102 SV	SE 6104 VPT	SE 6106 HFI
Tuner/Modulator	75988 035 5400									
Tuner/Modulator	75988 037 2700			●						
Tuner/Modulator	75988 037 8700		●		●	●	●			
Tuner/Modulator	75988 039 4100							●	●	
RP 150	75988 324 0300	●								
RP 160	75988 010 9100		●		●	●	●			
RP 160 F	75988 010 9200			●						
RP 500	75988 010 7100							●		
RP 540	75988 010 7300							●	●	

Video

Module Chart GV 709 to GV 7497

Designation	Part No.																	
		GV 709 M	GV 729 M	GV 740 HIFI	GV 740 NIC	GV 7000 EURO	GV 7000 SV	GV 7000 SV-C	GV 7003	GV 7300 EURO	GV 7300 SV	GV 7300 SV/5	GV 7400 EURO	GV 7400 HIFI	GV 7400 HIFI/5	GV 7400 NIC	GV 7400 NIC2 *	GV 7497 NIC
Tuner	75988 323 6000	●	●															
Tuner/Booster	75988 037 2700					1)			1)		1)							
Tuner/Booster	75988 041 4000					2)			2)		2)							
Tuner/Modulator	75988 035 5400			●													●	
Tuner/Modulator	75988 037 8700						1)	1)	1)				1)		1)			
Tuner/Modulator	75988 038 8300									1)				1)				
Tuner/Modulator	75988 041 4300					2)	2)	2)		2)			2)		2)			
Tuner/Modulator	75988 041 4800										2)		2)					
IF	75988 323 6100		●															
IF	75988 323 6300	●																
RP 7	72011 650 0000			●	●													●
RP 170	72011 660 0000						●	●	●		●	●	●	●	●	●	●	●
RP 170 FR	72011 660 0100						●			●		●						
RP 500	75988 010 7500		●	●														●
RC Transmitter	75988 323 3100	●	●															

Module Chart GV 819 to GV 8450

Designation	Part No.																	
		GV 819 M *	GV 8000 EURO	GV 8000 GB	GV 8000 SV/1	GV 8000 SV/2	GV 8000 SV/5	GV 8050 SV	GV 8300 EURO	GV 8300 SV	GV 8300 SV/5	GV 8400 EURO	GV 8400 GB	GV 8400 HIFI	GV 8400 HIFI/5	GV 8400 NIC 1	GV 8400 NIC 2	GV 8450 HIFI
Tuner/Booster	75988 041 4400	●																
Tuner/Modulator	75988 041 4300		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tuner/Modulator	75988 041 4500			●								●						
Tuner/Modulator	75988 041 4800						●				●			●				
RP 700	72011 713 0000		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RP 700 FR	72011 713 0100		●					●			●							

Module Chart GV 27, GV 47, KV 7..., KV 8..., SE 71..., SE 81...

Designation	Part No.																
		GV 27	GV 27 EURO	GV 27 VPS/5	GV 47	GV 47 VPS/5	KV 7001 VPS/5	KV 7301 VPS/5	KV 8001 VPS/5	KV 8301 VPS/5	KV 8401 HIFI/5	SE 7100 SV	SE 7104 SV	SE 7105 HIFI	SE 7106 HIFI	SE 8100 SV	SE 8105 HIFI
Tuner	75988 039 4100													●			
Tuner/Booster	75988 037 2700		1)														
Tuner/Booster	75988 041 4000		2)														
Tuner/Modulator	75988 035 5400																
Tuner/Modulator	75988 037 8700	1)		1)								1)		1)			
Tuner/Modulator	75988 038 8300			1)	1)			1)	1)								
Tuner/Modulator	75988 041 4300	2)		2)	2)							2)		2)		●	●
Tuner/Modulator	75988 041 4800		2)	2)	2)			2)	2)								
RP 7	72011 650 0000													●		●	
RP 170	72011 660 0000	●		●	●	●		●	●								
RP 170 FR	72011 660 0100		●														
RP 500	75988 010 7500													●		●	
RP 700	72011 713 0000								●	●	●			●		●	●

1) Evolution code AA

2) from evolution code AB

* Data not yet available on editorial close

Headwheels and Head Cylinders (Part 1)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
VS 500, 505, 510, 5180	2	47226 020 0100	47226 043 5000
VS 520, 525, 530	3	47226 021 0100	47226 044 0000
VS 540, 545, 5480	4	47226 022 0100	47226 042 0000
VS 550	4	47226 023 0100	47226 045 5000
VS 600, 610, 6190	2	47226 020 0100	47226 043 5000
VS 620, 630, 640, 645	4	47226 023 0100	47226 045 5000
VS 650	7	75986 210 2200	75986 210 2100
VS 660, 665, 6690	6	75986 210 0800	75986 210 0700
VS 680	7	75986 208 2800	75986 208 2700
VS 700, 705, 7000	2	47226 020 0100	47226 043 5000
VS 710, 715, 720, 7200	3	75986 209 1900	75986 209 1800
VS 740, 7400	4	47226 022 0100	47226 042 0000
VS 790	4	47226 023 0100	47226 045 5000
VS 800, 805, 810, 815	3	75986 209 1900	75986 209 1800
VS 900, 901, 902, 905, 9091	2	47226 020 0100	47226 043 5000
VS 910, 915, 920, 922, 925, 9291	3	75986 209 1900	75986 209 1800
VS 930	4	47226 023 0100	47226 045 5000
VS 940, 9491	6	75986 210 0800	75986 210 0700
VS 960	7	75987 265 2100	75987 265 2000
GV 200, 201, 206, 2092	2	47226 020 0100	47226 043 5000
GV 201-1	2	27599 005 0700	75988 001 2300
GV 204 (2-head variant)	2	47226 020 0100 od. 47226 021 0100	47226 043 5000
GV 204 (3-head variant)	3	47226 021 0200	47226 041 5300
GV 210, 211, 220, 2292	3	47226 021 0200	47226 041 5300
GV 216	3	75986 209 1900	75986 209 1800
GV 230, 2392	4	75986 210 4400	75986 210 4300
GV 240, 250, 255, 2492	6	75986 210 3100	75986 210 3000
GV 280S VPT, GV 280S PC	7	75986 208 2800	75986 208 2700
GV 400, 400 Ost, 400 VPS, 401 VPT, 402, 404 SV, 405 EURO, 406 EURO, 4000 VPS, 4092 VPS, 4092 SV	2	27599 005 0000	75988 001 3300
GV 400 GB	2	27599 005 0700	75988 001 3300
GV 409 M	2	75981 307 1300	
GV 410, 410 VPS, 411, 411 Ost, 412, 414 SV, GV 415 EURO, 416 EURO, 4192 SV, 420 VPT	3	27599 005 0100	75988 002 2900
GV 411-1, 411-2	6	27599 005 1000	75988 002 3100
GV 430..., 434 SV	4	27599 005 0200	75988 002 3000
GV 440..., 450..., 4592 VPT, 460..., 464..., 465 EURO	6	27599 005 0300	75988 002 3100
GV 466	6	27599 005 1800	75988 002 3100
GV 469 M	6	75981 317 0400	75981 317 0300
GV 470S, 470 PC	7	27599 005 0900	75988 002 3200
GV 500 GB, 5000 SAA	2	27599 005 0700	75988 001 3300
GV 5000 GB	2	27599 005 1600	75988 001 3300
GV 500 SV(/1), 501 VPT, 505 EURO, 506 EURO, 5000 (VPS (/5)), 5002 VPS, 5003, 5008, 5050 SV(/1), 5055 EURO, 5095 SV(/1),	2	27599 005 0800	75988 001 3300
GV 510 SV, 511, 515 EURO	3	27599 005 1100	75988 002 2900
GV 530..., 535 EURO	4	27599 005 1400	75988 023 0200
5300 (VPS (/5)), 5395 SV(/1)	4	27599 005 1500	75988 023 0200
GV 5305 EURO	4	27599 005 1500	75988 023 0200
GV 540, 5400 HiFi, GV 5400 NIC 560 (HiFi/5), 5695	6	27599 005 1000	75988 002 3100
GV 5400 EURO, 545 EURO, 565 EURO	6	27599 005 1800	75988 002 3100

Headwheels and Head Cylinders (Part 2)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
GV 600..., 605, 6000..., 6001, 6066	2	27599 005 0800	75988 023 0300
GV 609 M	2	75988 034 0600	75988 034 5100 **
GV 6096..	2	27599 005 0800	75988 023 0300
GV 630..., 6300 SV(/1), 6396 VPT	4	27599 005 1400	75988 023 0500
GV 635 EURO, 6300 EURO	4	27599 005 1500	75988 023 0500
GV 640..., 6400 HiFi(/5), 6400 NIC, 6401	6	27599 005 1900	75988 023 0600
GV 645 EURO, 6400 EURO	6	27599 005 2000	75988 023 0600
GV 650, 6596..	6	27599 005 1900	75988 023 0600
GV 660..	7	27599 005 1900	75988 023 0700
GV 665 EURO	7	27599 005 2000	75988 023 0700
GV 670..	6	27599 005 1900	75988 023 0600
GV 690..	7	27599 005 1900	75988 023 0700
GV 709 M, 729 M	2	75988 323 3700	75988 323 3600 **
GV 740..	6	27599 005 2400	75988 023 1000
GV 7000..., GV 7003	2	27599 005 2200	75988 023 0800
GV 7300 EURO, GV 7300 SV/5	4	27599 005 1500	75988 023 0900
GV 7300 SV	4	27599 005 1400	75988 023 0900
GV 7400 EURO	6	27599 005 1500	75988 023 0900
GV 7400 HiFi, GV 7400 NIC	6	27599 005 2400	75988 023 1000
GV 7400 HiFi/5	6	27599 005 2500	75988 023 1000
GV 7497 NIC	6	27599 005 2400	75988 023 1000
GV 819 M	*	*	*
GV 8000 EURO, GV 8000 SV/1	2	27599 005 2200	75988 023 0800
GV 8000 GB	2	27599 005 2300	75988 023 0800
GV 8000 SV/2, GV 8000 SV/5, 8050 SV	GV 2	27599 005 2200	75988 023 0800
GV 8300..	4	27599 005 1500	75988 023 0900
GV 8400..., GV 8450 HiFi	6	27599 005 2000	75988 023 1000

* Data not yet available on editorial close

** = Scanner cpl.

Headwheels and Head Cylinders (Part 3)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
GV 25 SV/5	2	27599 005 0800	75988 001 3300
GV 26..	2	27599 005 0800	75988 023 0300
GV 27..	2	27599 005 2200	75988 023 0800
GV 45 SV/5	4	27599 005 1200	75988 023 0200
GV 46..	4	27599 005 1400	75988 023 0500
GV 47..	4	27599 005 1400	75988 023 0900
GVP 600 ICN EURO			
	2	27599 005 0800	75988 001 3300
KV 5001 VPS/5	2	27599 005 0800	75988 001 3300
KV 5301 VPS/5	4	27599 005 1400	75988 023 0200
KV 7001 VPS/5	2	27599 005 2200	75988 023 0800
KV 7301 VPS/5	4	27599 005 1500	75988 023 0900
KV 8001 VPS/5	2	27599 005 2200	75988 023 0800
KV 8301 VPS/5	4	27599 005 1500	75988 023 0900
KV 8401 HiFi/5	6	27599 005 2000	75988 023 1000
MV 4005	2	27599 005 0000	75988 001 3300
MV 4105	3	27599 005 0100	75988 002 2900
MV 6001 SV	*	*	*
SE 2100 VPS	2	47226 020 0100	47226 043 5000
SE 2120 VPT	3	47226 021 0200	47226 041 5300
SE 4100 VPS, 4104 SV	2	27599 005 0000	75988 001 3300
SE 4120 SV	3	27599 005 0100	75988 002 2900
SE 5102 SV	2	27599 005 0800	75988 001 3300
SE 5104 SV	4	27599 005 1400	75988 023 0200
SE 5106 HiFi	6	27599 005 1000	75988 002 3100
SE 5110 VPS	2	47226 020 0100	47226 043 5000
SE 5140 VPS	4	47226 022 0100	47226 042 0000
SE 6102 SV	2	27599 005 0800	75988 023 0300
SE 6104 VPT	4	27599 005 1400	75988 023 0500
SE 6106 HiFi	6	27599 005 1900	75988 023 0600
SE 6110 VT	2	47226 020 0100	47226 043 5000
SE 6160 VPT	6	75986 210 0800	75986 210 0700
SE 7100 SV	2	27599 005 2200	75988 023 0800
SE 7104	4	27599 005 1400	75988 023 0900
SE 7105 HiFi, SE 7106 HiFi	6	27599 005 2400	75988 023 1000
SE 7120 VPT	3	75986 209 1900	75986 209 1800
SE 8100 SV	2	27599 005 2200	75988 023 0800
SE 8105 HiFi	6	27599 005 2000	75988 023 1000
SE 9100 VPS	2	47226 020 0100	47226 043 5000
SE 9120 VPT	3	75986 209 1900	75986 209 1800

* Data not yet available on editorial close

Service Manuals Video (Part 1)

Type of VCR	Part No.	Kind of Manual
GV 400	72010 514 8000	Service Manual
GV 400 GB	72010 514 8000	Service Manual
	72010 514 8100	Supplement
GV 400 OST	72010 514 8000	Service Manual
GV 400 VPS	72010 514 8500	Service Manual
GV 401 VPT	72010 514 8500	Service Manual
GV 402	72010 514 8000	Service Manual
	72010 514 8500	Service Manual
GV 403	72010 514 8200	Supplement
	72010 514 8800	Supplement
	72010 514 8500	Service Manual
GV 404 SV	72010 514 8500	Service Manual
GV 405 EURO	72010 514 8500	Service Manual
GV 406 EURO	72010 514 8500	Service Manual
	72010 514 8500	Service Manual
GV 407	72010 514 8500	Service Manual
	72010 514 8200	Supplement
	72010 514 8800	Supplement
GV 409 M	72010 516 1500	Service Manual
GV 410	72010 514 8000	Service Manual
GV 410 VPS	72010 514 8500	Service Manual
GV 411	72010 514 8500	Service Manual
GV 411 OST	72010 514 8000	Service Manual
GV 411-1	72010 524 0000	Service Manual
GV 411-2	72010 524 1500	Service Manual
GV 412	72010 514 8000	Service Manual
GV 414 SV	72010 514 8500	Service Manual
GV 415 EURO	72010 514 8500	Service Manual
GV 416 EURO	72010 514 8500	Service Manual
	72010 514 8500	Service Manual
	72010 514 8200	Supplement
GV 417	72010 514 8200	Supplement
	72010 514 8800	Supplement
	72010 514 8500	Service Manual
GV 420 VPT	72010 514 8500	Service Manual
GV 430	72010 514 8000	Service Manual
GV 430 GB	72010 514 8000	Service Manual
	72010 514 8100	Supplement
GV 430 VPS	72010 514 8500	Service Manual
GV 434 SV	72010 514 8500	Service Manual
	72010 514 8600	Supplement
GV 435 EURO	72010 514 8500	Service Manual
	72010 514 8500	Service Manual
GV 437	72010 514 8200	Supplement
	72010 514 8800	Supplement
	72010 514 9000	Service Manual
GV 440 NIC	72010 514 9000	Service Manual
GV 440 VPS	72010 514 9000	Service Manual
GV 450	72010 514 9000	Service Manual
GV 450 GB	72010 514 9000	Service Manual
GV 450 NIC	72010 514 9000	Service Manual
GV 450 VPT	72010 514 9000	Service Manual
	72010 514 9000	Service Manual
	72010 514 9100	Supplement
GV 450 OIRT	72010 514 9100	Supplement
	72010 514 9200	Supplement
GV 460 NIC	72010 514 9000	Service Manual
GV 460 VPT	72010 514 9000	Service Manual
GV 464 HiFi	72010 514 9000	Service Manual
	72010 514 9100	Supplement
GV 464 NIC	72010 514 9000	Service Manual
	72010 514 9100	Supplement

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals Video (Part 2)

Type of VCR	Part No.	Kind of Manual
GV 464 OIRT	72010 514 9000	Service Manual
	72010 514 9100	Supplement
	72010 514 9200	Supplement
GV 465 EURO	72010 517 0500	Service Manual
GV 469 M	72010 516 2000	Service Manual
GV 470 PC	72010 517 1000	Service Manual
	72010 517 1100	Supplement
GV 470S NIC	72010 517 1000	Service Manual
GV 470S VPT	72010 517 1000	Service Manual
GV 4000 VPS	72010 514 8000	Service Manual
	72010 514 8100	Supplement
GV 4001	72010 514 8000	Service Manual
	72010 514 8200	Supplement
	72010 514 8800	Supplement
GV 4002 VPS	72010 514 8000	Service Manual
	72010 514 8200	Supplement
	72010 514 8800	Supplement
GV 4003 VPS	72010 514 8000	Service Manual
	72010 514 8200	Supplement
	72010 514 8800	Supplement
GV 4010 SV-VPT	72010 514 8500	Service Manual
	72010 514 8700	Supplement
	72010 514 8800	Supplement
GV 4092 SV / Barcelona	72010 514 8500	Service Manual
	72010 514 8600	Supplement
GV 4092 VPS / Barcelona	72010 514 8500	Service Manual
GV 4192 SV / Florenz	72010 514 8500	Service Manual
GV 4200 SV-VPT	72010 514 8500	Service Manual
	72010 514 8700	Supplement
	72010 514 8800	Supplement
GV 4592 VPT / Madrid	72010 514 9000	Service Manual
GV 4592 SV / Madrid	72010 514 9000	Service Manual
	72010 514 9100	Supplement
GV 500 SV	72010 519 4000	Service Manual
	72010 519 4100	Supplement
GV 500 SV/1	72010 519 4000	Service Manual
	72010 519 4100	Supplement
GV 500 GB	72010 519 4000	Service Manual
	72010 519 4100	Supplement
GV 501 VPT	72010 519 4000	Service Manual
	72010 519 4100	Supplement
GV 505 EURO	72010 520 9000	Service Manual
GV 506 EURO	72010 520 9000	Service Manual
GV 509 M	72010 518 8000	Service Manual
GV 510 SV	72010 519 4000	Service Manual
	72010 519 4100	Supplement
GV 511	72010 519 4000	Service Manual
	72010 519 4100	Supplement
GV 515 EURO	72010 520 9000	Service Manual
GV 530 SV	72010 519 4000	Service Manual
	72010 519 4100	Supplement
GV 530 SV/1	72010 519 4000	Service Manual
GV 535 EURO	72010 520 9000	Service Manual
GV 540 GB	72010 519 4500	Service Manual
GV 540 HIFI	72010 519 4500	Service Manual
GV 540 NIC	72010 519 4500	Service Manual
GV 545 EURO	72010 521 0000	Service Manual

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals Video (Part 3)

Type of VCR	Part No.	Kind of Manual
GV 560 HIFI	72010 519 4500	Service Manual
GV 560 HIFI / LE	72010 519 4500	Service Manual
GV 560 HIFI / 5	72010 519 4500 72010 519 4600	Service Manual Supplement
GV 560 NIC	72010 519 4500	Service Manual
GV 565 EURO	72010 521 0000	Service Manual
GV 5000	72010 519 0000	Service Manual
GV 5000 EURO	72010 519 0500	Service Manual
GV 5000 GB	72010 519 0000	Service Manual
GV 5000 SAA	72010 519 0000 72010 519 0100	Service Manual Supplement
GV 5000 SV	72010 519 0000 72010 519 0200	Service Manual Supplement
GV 5000 VPS	72010 519 0000	Service Manual
GV 5000 VPS/5	72010 519 0000	Service Manual
GV 5002 VPS	72010 519 0000 72010 519 0100	Service Manual Supplement
GV 5003	72010 519 0000 72010 519 0100	Service Manual Supplement
GV 5008 SV	72010 519 0000 72010 519 0300	Service Manual Supplement
GV 5050	72010 519 4000 72010 519 4100	Service Manual Supplement
GV 5050 SV	72010 519 4000 72010 519 4100	Service Manual Supplement
GV 5050 SV/1	72010 519 4000 72010 519 4100	Service Manual Supplement
GV 5055 EURO	72010 520 9000	Service Manual
GV 5095 SV	72010 519 4000 72010 519 4100	Service Manual Supplement
GV 5095 SV/1	72010 519 4000 72010 519 4100	Service Manual Supplement
GV 5300	72010 519 0000 72010 519 0100	Service Manual Supplement
GV 5300 VPS	72010 519 0000 72010 519 0100	Service Manual Supplement
GV 5300 VPS/5	72010 519 0000	Service Manual
GV 5305 EURO	72010 519 0500	Service Manual
GV 5395 SV	72010 519 4000 72010 519 4100	Service Manual Supplement
GV 5395 SV/1	72010 519 4000 72010 519 4100	Service Manual Supplement
GV 5400 EURO	72010 521 0000	Service Manual
GV 5400 HIFI	72010 519 4500 72010 519 4600	Service Manual Supplement
GV 5400 NIC	72010 519 4500 72010 519 4600	Service Manual Supplement
GV 5695 HIFI	72010 519 4500	Service Manual
GV 600 SV	72010 528 4500	Service Manual
GV 600 SV/1	72010 528 4500	Service Manual
GVP 600 ICN EURO	72010 519 0000 72010 519 0400	Service Manual Supplement
GV 605 EURO	72010 528 5000	Service Manual
GV 609 M	72010 522 1000	Service Manual
GV 630 SV	72010 528 4500	Service Manual
GV 630 SV/1	72010 528 4500	Service Manual
GV 635 EURO	72010 528 5000	Service Manual

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals Video (Part 4)

Type of VCR	Part No.	Kind of Manual
GV 640 HIFI	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 640 NIC	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 645 EURO	72010 527 5000	Service Manual
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 650 HIFI	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 660 HIFI	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 660 NIC	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
GV 665 EURO	72010 527 5000	Service Manual
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 670 S HIFI	72010 527 3500	Service Manual
	72010 527 3600	Supplement
	72010 527 3700	Supplement
	72010 527 3800	Supplement
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 670 S NIC	72010 528 9300	Training (D)
	72010 528 9400	Training (GB)
	72010 527 3500	Service Manual
	72010 527 3600	Supplement
	72010 527 3700	Supplement
GV 690 S HIFI	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
	72010 528 9300	Training (D)
	72010 528 9400	Training (GB)
	72010 527 3500	Service Manual
	72010 527 3600	Supplement
GV 690 S NIC	72010 527 3700	Supplement
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
	72010 528 9300	Training (D)
	72010 528 9400	Training (GB)
GV 6000 EURO	72010 527 4000	Service Manual
GV 6000 SV	72010 527 2500	Service Manual

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals Video (Part 5)

Type of VCR	Part No.	Kind of Manual
GV 6000 SV/1	72010 527 2500	Service Manual
GV 6001 V+	72010 527 2500	Service Manual
GV 6066	72010 527 2500	Service Manual
GV 6096 SV	72010 527 2500 72010 527 2600	Service Manual Supplement
GV 6096 SV/1	72010 527 2500 72010 527 2600	Service Manual Supplement
GV 6300 EURO	72010 527 4000	Service Manual
GV 6300 SV	72010 527 2500	Service Manual
GV 6300 SV/1	72010 527 2500	Service Manual
GV 6396 SV	72010 527 2500 72010 527 2600	Service Manual Supplement
GV 6400 EURO	72010 527 4500	Service Manual
GV 6400 HIFI	72010 527 3000	Service Manual
GV 6400 HIFI/5	72010 527 3000	Service Manual
GV 6400 NIC 1	72010 527 3000	Service Manual
GV 6400 NIC 2	72010 527 3000	Service Manual
GV 6401 NIC	72010 527 3000	Service Manual
GV 6596 HIFI	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 6596 NIC	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 709 M	72010 527 5500	Service Manual
GV 729 M	72010 527 5500	Service Manual
GV 740 HIFI	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 740 NIC	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 7000 EURO	72010 530 3000	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7000 SV	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7000 SV-C	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7003	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7300 EURO	72010 530 3000	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7300 SV	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals Video (Part 6)

Type of VCR	Part No.	Kind of Manual
GV 7300 SV/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 EURO	72010 530 3000	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 HiFi	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 HiFi/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 NIC	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 NIC2	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7497 NIC	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 819 M	72010 534 0000	Service Manual
GV 8000 EURO	72010 530 3000	Service Manual
	72010 530 3100	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8000 GB	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8000 SV/1	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8000 SV/2	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8000 SV/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8050 SV	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8300 EURO	72010 530 3000	Service Manual
	72010 530 3100	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8300 SV	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals Video (Part 7)

Type of VCR	Part No.	Kind of Manual
GV 8300 SV/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 EURO	72010 530 3000	Service Manual
	72010 530 3100	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 GB	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 HiFi	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 HiFi/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 NIC 1	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 NIC 2	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8450 HiFi	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
KV 5001 VPS/5	72010 519 0000	Service Manual
	72010 519 0100	Supplement
	72010 519 0600	Supplement
KV 5301 VPS/5	72010 519 0000	Service Manual
	72010 519 0100	Supplement
	72010 519 0600	Supplement
KV 7001 VPS/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
KV 7301 VPS/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
KV 8001 VPS/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
KV 8301 VPS/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
KV 8401 HiFi/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
MV 6001 SV	72010 528 9500	Service Manual

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals Video (Part 8)

Type of VCR	Part No.	Kind of Manual
SE 4100 VPS	72010 514 8500	Service Manual
SE 4104 SV	72010 514 8500	Service Manual
	72010 514 8600	Supplement
SE 4120 SV	72010 514 8500	Service Manual
SE 5102 SV	72010 519 4000	Service Manual
	72010 519 4100	Supplement
SE 5104 SV	72010 519 4000	Service Manual
	72010 519 4100	Supplement
SE 5106 SV	72010 519 4500	Service Manual
	72010 527 2500	Service Manual
SE 6102 SV	72010 527 2500	Service Manual
	72010 527 2600	Supplement
SE 6104 SV	72010 527 2500	Service Manual
	72010 527 2600	Supplement
SE 6106 HiFi	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
SE 7100 SV	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
SE 7104	72010 527 2500	Service Manual
	72010 527 2600	Supplement
	72010 527 2700	Supplement
SE 7105 HiFi	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
SE 7106 HiFi	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
SE 8100 SV / Palermo	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
SE 8105 HiFi / Sevilla	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals TVR (Part 1)

Type of TVR	Part No.	Kind of Manual
TVR 3700	72010 517 3000	Service Manual
TVR 3700 FR	72010 517 0500	Service Manual
TVR 3700 GB	72010 517 3000 72010 517 3100	Service Manual Supplement
TVR 3701 SV	72010 524 9500 72010 524 9600 72010 524 9800	Service Manual Supplement Supplement
TVR 3701 SV/FR	72010 525 0000 72010 525 0100 72010 525 0200	Service Manual Supplement Supplement
TVR 3705	72010 524 9500 72010 524 9800	Service Manual Supplement
TVR 3705 FR	72010 525 0000 72010 525 0200	Service Manual Supplement
TVR 3710	72010 524 9500 72010 524 9800	Service Manual Supplement
TVR 3710 FR	72010 525 0000 72010 525 0200	Service Manual Supplement
TVR 3710 GB	72010 524 9500 72010 524 9800	Service Manual Supplement
TVR 3720	72010 524 9500 72010 524 9800	Service Manual Supplement
TVR 3720 GB	72010 524 9500 72010 524 9800	Service Manual Supplement
TVR 3730 Text (Code AA)	72010 524 9500 72010 524 9800 72010 524 9900	Service Manual Supplement Supplement
TVR 3730 text/FR	72010 525 0000 72010 525 0200 72010 525 0300	Service Manual Supplement Supplement
TVR 3730 Text/GB (Code AA)	72010 524 9500 72010 524 9800 72010 524 9900	Service Manual Supplement Supplement
TVR 4500 CTI/Text	72010 003 0000 72010 003 0100	Service Manual Supplement
TVR 4500 GB	72010 003 0000 72010 003 0100	Service Manual Supplement
TVR 4510	72010 003 0000 72010 003 0100 72010 003 0200	Service Manual Supplement Supplement
TVR 5100	72010 524 9500 72010 524 9800	Service Manual Supplement
TVR 5100 Text (Code BA)	72010 524 9500 72010 524 9800 72010 524 9900	Service Manual Supplement Supplement
TVR 5100 FR	72010 525 0000 72010 525 0200	Service Manual Supplement
TVR 5100 GB	72010 524 9500 72010 524 9700 72010 524 9800	Service Manual Supplement Supplement
TVR 5120 FR	72010 525 0000 72010 525 0200	Service Manual Supplement
TVR 5130 Text (Code AA)	72010 524 9500 72010 524 9800 72010 524 9900	Service Manual Supplement Supplement
TVR 5130 FR	72010 525 0000 72010 525 0200 72010 525 0300	Service Manual Supplement Supplement

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals TVR (Part 2) and GVD

Type of TVR	Part No.	Kind of Manual
TVR 5130 Text/GB (Code AA)	72010 524 9500	Service Manual
	72010 524 9800	Supplement
	72010 524 9900	Supplement
TVR 5500	72010 524 9500	Service Manual
TVR 5500 FR	72010 524 9800	Supplement
	72010 525 0000	Service Manual
TVR 5510	72010 525 0200	Supplement
	72010 003 0000	Service Manual
	72010 003 0100	Supplement
TVR 5530 Text (Code AA)	72010 003 0200	Supplement
	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 5530 text/FR	72010 524 9900	Supplement
	72010 525 0000	Service Manual
	72010 525 0200	Supplement
	72010 525 0300	Supplement

Video Disc Player	Part No.	Kind of Manual
GDV 100 D	72010 531 9500	Service Manual

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

GRUNDIG Tele-Pilot® Remote Control Handsets/Survey of Types Video Product Range



RP 10
75988 000 1000
RP 10 Minerva
75988 000 1200
RT 130
75988 000 1400



RP 13
75988 000 1100
RP 13 Minerva
75988 000 1300
RT 230
75988 000 1500



RP 20
27520 159 0100



RP 25
27520 158 0100



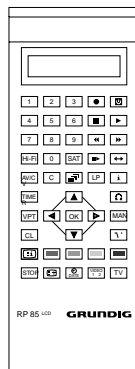
RP 30
27520 160 0100



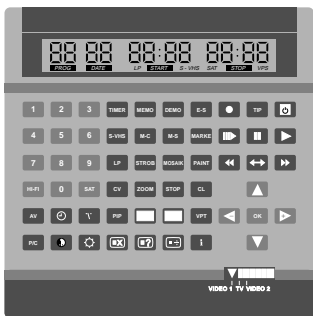
RP 33
27520 171 0100



RP 35
27520 161 0100



RP 85
27520 152 0100

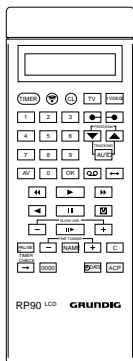


RP 80
27520 097 0100



RP 81
27520 156 0100

Video



RP 90
27520 154 0100



RP 95
27520 155 0100



RP 150
75988 324 0300



RP 160
75988 010 9100



RT 151
75988 033 2200



RT 750/131
75988 035 0700



RP 409
75981 307 2800



RP 509
75988 232 3100
RP 609
75988 034 0000



RP 469
75981 317 9100



RP 500
75988 010 7100



RP 540
75988 010 7300



RP 709/729
75988 323 3100



TVP 762
75988 017 0600



RC GV 819
75988 323 9000



RP 170
72011 660 0000



RP 700
72011 713 0000

Video



RP 7
72011 650 0000



Video Control 1
72011 610 0000

Video Control 1
72011 610 0000

replaces the following types:

Type	Code
RP 4	205
RP 6	201
RC 6	201
RP 50	205
VP 386	202
VP 615	206
RC 615	206

and variant versions

Video Remote Control Codes Video 2000 to VS 960

Type of VCR	VCR Remote Control Code					RC Transmitter	Transmitter RC Code				
	7 Bit	10Bit old 3)	10Bit new	16Bit Level 1	16Bit Level 2		7 Bit	10Bit old 3)	10Bit new	16Bit Level 1	16Bit Level 2
Video 2000	●	-	-	-	-	TPV 355	●	-	-	-	-
Video 2000	●	-	-	-	-	TPV 385	●	-	-	-	-
VS 200 RC	●	1)	-	-	-	VTP 386	●	-	-	-	-
VS 300	●	●	-	-	-	VP 615	●	-	-	-	-
VS 310	●	●	-	-	-	VP 615	●	-	-	-	-
VS 320	●	●	-	-	-	VP 615	●	-	-	-	-
VS 320	●	●	-	-	-	VP 615	●	-	-	-	-
VS 340	●	●	-	-	-	VP 615	●	-	-	-	-
VS 380	●	●	-	-	-	VP 615	●	-	-	-	-
VS 400	-	-	●	-	-	RP 4	-	-	●	-	-
VS 410	-	-	●	-	-	RP 4	-	-	●	-	-
VS 440	-	-	●	-	-	RP 4	-	-	●	-	-
VS 450	-	-	●	-	-	RP 6	-	-	●	-	-
VS 460	-	-	●	-	-	RP 5 LCD	-	-	●	-	-
VS 500	-	-	●	-	-	RP 50	-	-	●	-	-
VS 505	-	-	●	-	-	RP 65 LCD	-	-	●	-	-
VS 510	-	-	●	-	-	RP 65 LCD	-	-	●	-	-
VS 520	-	-	●	-	-	RP 6	-	-	●	-	-
VS 530	-	-	●	-	-	RP 6 LCD	-	-	●	-	-
VS 540	-	-	●	-	-	RP 6 LCD	-	-	●	-	-
VS 550	-	-	●	-	-	RP 70 LCD	-	-	●	-	-
VS 600	-	-	●	●	●	RP 60 LCD	-	-	●	●	●
VS 610	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 620	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 626	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 630	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 640	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 650	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 660	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 680	-	-	●	●	●	RP 80 LCD 2)	-	-	●	●	●
VS 700	-	-	●	●	●	RP 60 LCD	-	-	●	●	●
VS 710	-	-	●	●	●	RP 60 LCD	-	-	●	●	●
VS 720	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 740	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 790	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 800	-	-	●	●	●	RP 60 LCD	-	-	●	●	●
VS 810	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 900	-	-	●	●	●	RP 90 LCD	-	-	●	●	●
VS 901	-	-	●	●	●	RP 95 LCD	-	-	●	●	●
VS 910	-	-	●	●	●	RP 90 LCD	-	-	●	●	●
VS 920	-	-	●	●	●	RP 95 LCD	-	-	●	●	●
VS 930	-	-	●	●	●	RP 75 LCD	-	-	●	●	●
VS 940	-	-	●	●	●	RP 95 LCD	-	-	●	●	●
VS 960	-	-	●	●	●	RP 85 LCD	-	-	●	●	●

1) With VIF-E 30a it is possible to receive the old 10bit code in addition to the 7bit code.

2) Change between RC levels with the slide switch.

3) The old 10bit code is exclusively used by earlier RC transmitters with control possibility for video recorders. It is not compatible with the new 10bit code.

Video Remote Control Codes GV 200 to GV 470

Type of VCR	VCR Remote Control Code				RC Transmitter	Transmitter RC Code			
	RC 5 Code	10Bit new	16Bit Level 1	16Bit Level 2		RC 5 Code	10Bit new	16Bit Level 1	16Bit Level 2
GV 200	-	●	●	●	RP 20	-	-	●	●
GV 201	-	●	●	●	RP 25	-	-	●	●
GV 201-1	●	-	-	-	RP 150	●	-	-	-
GV 210	-	●	●	●	RP 20	-	-	●	●
GV 211	-	●	●	●	RP 20	-	-	●	●
GV 220	-	●	●	●	RP 25	-	-	●	●
GV 230	-	●	●	●	RP 25	-	-	●	●
GV 240	-	●	●	●	RP 25	-	-	●	●
GV 250	-	●	●	●	RP 25	-	-	●	●
GV 280S	-	●	●	●	RP 81	-	●	●	●
GV 400	●	-	-	-	RP 10	●	-	-	-
GV 400 GB	●	-	-	-	RP 13	●	-	-	-
GV 400 OST	●	-	-	-	RT 130	●	-	-	-
GV 400 VPS	-	-	●	●	RP 30	-	-	●	●
GV 401 VPT	-	-	●	●	RP 35	-	-	●	●
GV 402	●	-	-	-	RT 13	●	-	-	-
GV 404 SV	-	-	●	●	RP 30	-	-	●	●
GV 405 EURO	-	-	●	●	RP 30	-	-	●	●
GV 406 EURO	-	-	●	●	RP 33	-	-	●	●
GV 409 M	-	-	-	-	RP 409	-	-	-	-
GV 410	●	-	-	-	RP 10	●	-	-	-
GV 410 VPS	-	-	●	●	RP 30	-	-	●	●
GV 411	-	-	●	●	RP 30	-	-	●	●
GV 411 OST	●	-	-	-	RT 230	●	-	-	-
GV 411-1	●	-	-	-	RT 750/131	●	-	-	-
GV 411-2	●	-	-	-	RT 151	●	-	-	-
GV 412	●	-	-	-	RP 13	●	-	-	-
GV 414 SV	-	-	●	●	RP 30	-	-	●	●
GV 415 EURO	-	-	●	●	RP 30	-	-	●	●
GV 416 EURO	-	-	●	●	RP 33	-	-	●	●
GV 420 VPT	-	-	●	●	RP 35	-	-	●	●
GV 430	●	-	-	-	RP 13	●	-	-	-
GV 430 GB	●	-	-	-	RP 13	●	-	-	-
GV 430 VPS	-	-	●	●	RP 33	-	-	●	●
GV 434 SV	-	-	●	●	RP 33	-	-	●	●
GV 435 EURO	-	-	●	●	RP 33	-	-	●	●
GV 440 NIC	-	●	●	●	RP 30	-	-	●	●
GV 440 VPS	-	●	●	●	RP 30	-	-	●	●
GV 450	-	●	●	●	RP 33	-	-	●	●
GV 450 GB	-	●	●	●	RP 33	-	-	●	●
GV 450 NIC	-	●	●	●	RP 35	-	-	●	●
GV 450 VPT	-	●	●	●	RP 35	-	-	●	●
GV 460 NIC	-	●	●	●	RP 35	-	-	●	●
GV 460 VPT	-	●	●	●	RP 35	-	-	●	●
GV 464 HiFi	-	●	●	●	RP 35	-	-	●	●
GV 464 NIC	-	●	●	●	RP 35	-	-	●	●
GV 465 EURO	-	●	●	●	RP 33	-	-	●	●
GV 469 M	-	-	-	-	RP 469	-	-	-	-
GV 470 PC	-	●	●	●	RP 35	-	-	●	●
GV 470 S VPT	-	●	●	●	RP 35	-	-	●	●
GV 4000 VPS	●	-	-	-	RP 10	●	-	-	-
GV 4010 SV-VPT	-	-	●	●	RP 35	-	-	●	●
GV 4092 SV	-	-	●	●	RP 30	-	-	●	●
GV 4092 VPS	-	-	●	●	RP 30	-	-	●	●
GV 4192 SV	-	-	●	●	RP 30	-	-	●	●
GV 4292 VPT	-	-	●	●	RP 35	-	-	●	●
GV 4592 (SV)VPT	-	●	●	●	RP 35	-	-	●	●
MV 4005	●	-	-	-	RP 10 Minerva	●	-	-	-
MV 4105	●	-	-	-	RP13 Minerva	●	-	-	-
SE 4100 VPS	-	-	●	●	RP 30	-	-	●	●
SE 4104 SV	-	-	●	●	RP 30	-	-	●	●
SE 4120 SV	-	-	●	●	RP 35	-	-	●	●

Video Remote Control Codes GV 500 to GV 560

Type of VCR	RC Transmitter			RC Transmitter	RC Transmitter		
	RC 5 Code	16Bit Level 1	16Bit Level 2		RC 5 Code	16Bit Level 1	16Bit Level 2
GV 25 SV /5	●	-	-	RP 150	-	-	-
GV 45 SV /5	●	-	-	RP 150	●	-	-
GV 500 GB	-	●	●	RP 500	-	●	●
GV 500 SV	-	●	●	RP 500	-	●	●
GV 500 SV /1	-	●	●	RP 500	-	●	●
GV 501 VPT	-	●	●	RP 500	-	●	●
GV 505 EURO	-	●	●	RP 500	-	●	●
GV 506 EURO	-	●	●	RP 500	-	●	●
GV 509 M	-	-	-	RP 509	-	-	-
GV 510 SV	-	●	●	RP 500	-	●	●
GV 511	-	●	●	RP 500	-	●	●
GV 515 EURO	-	●	●	RP 500	-	●	●
GV 530 SV	-	●	●	RP 500	-	●	●
GV 530 SV /1	-	●	●	RP 500	-	●	●
GV 535 EURO	-	●	●	RP 500	-	●	●
GV 540 GB	-	●	●	RP 540	-	●	●
GV 540 HiFi	-	●	●	RP 540	-	●	●
GV 540 NIC	-	●	●	RP 540	-	●	●
GV 545 EURO	-	●	●	RP 540	-	●	●
GV 560 HiFi	-	●	●	RP 540	-	●	●
GV 560 HiFi /5	-	●	●	RP 540	-	●	●
GV 560 HiFi LE	-	●	●	RP 540	-	●	●
GV 560 NIC	-	●	●	RP 540	-	●	●
GV 565 EURO	-	●	●	RP 540	-	●	●
GV 5000	●	-	-	RP 150	●	-	-
GV 5000 EURO	●	-	-	RP 150	●	-	-
GV 5000 GB	●	-	-	RP 150	●	-	-
GV 5000 SAA	●	-	-	RP 150	●	-	-
GV 5000 SV	●	-	-	RP 150	●	-	-
GV 5000 VPS	●	-	-	RP 150	●	-	-
GV 5000 VPS /5	●	-	-	RP 150	●	-	-
GV 5002 VPS	●	-	-	RP 150	●	-	-
GV 5003	●	-	-	RP 150	●	-	-
GV 5008 SV	●	-	-	RP 150	●	-	-
GV 5050	-	●	●	RP 500	-	●	●
GV 5050 SV	-	●	●	RP 500	-	●	●
GV 5050 SV /1	-	●	●	RP 500	-	●	●
GV 5055 EURO	-	●	●	RP 500	-	●	●
GV 5095 SV	-	●	●	RP 500	-	●	●
GV 5095 SV /1	-	●	●	RP 500	-	●	●
GV 5300	●	-	-	RP 150	●	-	-
GV 5300 VPS	●	-	-	RP 150	●	-	-
GV 5300 VPS /5	●	-	-	RP 150	●	-	-
GV 5305 EURO	●	-	-	RP 150	●	-	-
GV 5395 SV	-	●	●	RP 500	-	●	●
GV 5395 SV /1	-	●	●	RP 500	-	●	●
GV 5400 EURO	-	●	●	RP 500	-	●	●
GV 5400 HiFi	-	●	●	RP 540	-	●	●
GV 5400 NIC	-	●	●	RP 540	-	●	●
GV 5695 HiFi	-	●	●	RP 540	-	●	●
KV 5001 VPS /5	●	-	-	RP 150	●	-	-
KV 5301 VPS /5	●	-	-	RP 150	●	-	-
SE 5102 SV	-	●	●	RP 500	-	●	●
SE 5104 SV	-	●	●	RP 500	-	●	●
SE 5106 HiFi	-	●	●	RP 540	-	●	●

Video Remote Control Codes GV 600 to GV 690

Type of VCR	RC 5 Code			RC Transmitter		
	RC 5 Code	16Bit Level 1	16Bit Level 2	RC 5 Code	16Bit Level 1	16Bit Level 2
GV 26	●	-	-	RP 160	●	-
GV 26 EURO	●	-	-	RP 160 F	●	-
GV 26 VPS	●	-	-	RP 160	●	-
GV 46	●	-	-	RP 160	●	-
GV 46 VPS	●	-	-	RP 160	●	-
GV 600 SV	-	●	●	RP 500	-	●
GV 600 SV/1	-	●	●	RP 500	-	●
GVP 600 ICN EURO	●	-	-	RP 150	●	-
GV 605 EURO	-	●	●	RP 500 F	-	●
GV 609 M	-	●	-	RP 609M	-	-
GV 630 SV	-	●	●	RP 500	-	●
GV 630 SV/1	-	●	●	RP 500	-	●
GV 635 EURO	-	●	●	RP 500 F	-	●
GV 640 HiFi	-	●	●	RP 500	-	●
GV 640 NIC	-	●	●	RP 500	-	●
GV 645 EURO	-	●	●	RP 500 F	-	●
GV 650 HiFi	-	●	●	RP 540	-	●
GV 660 HiFi	-	●	●	RP 540	-	●
GV 660 NIC	-	●	●	RP 540	-	●
GV 665 EURO	-	●	●	RP 540 F	-	●
GV 670 S HiFi	-	●	●	RP 540	-	●
GV 670 S NIC	-	●	●	RP 540	-	●
GV 690 S HiFi	-	●	●	RP 540	-	●
GV 690 S NIC	-	●	●	RP 540	-	●
GV 6000 EURO	●	-	-	RP 160 F	●	-
GV 6000 SV	●	-	-	RP 160	●	-
GV 6000 SV/1	●	-	-	RP 160	●	-
GV 6001 V+	●	-	-	RP 160	●	-
GV 6066	●	-	-	RP 160	●	-
GV 6096 SV	-	●	●	RP 500	-	●
GV 6096 SV/1	-	●	●	RP 500	-	●
GV 6300 EURO	-	●	●	RP 500 F	-	●
GV 6300 SV	-	●	●	RP 500	-	●
GV 6300 SV/1	-	●	●	RP 500	-	●
GV 6396 VPT	-	●	●	RP 540	-	●
GV 6400 EURO	●	-	-	RP 160 F	●	-
GV 6400 HiFi	●	-	-	RP 160	●	-
GV 6400 HiFi/5	●	-	-	RP 160	●	-
GV 6400 NIC	●	-	-	RP 160	●	-
GV 6401 NIC	●	-	-	RP 160	●	-
GV 6596 HiFi	-	●	●	RP 540	-	●
GV 6596 NIC	-	●	●	RP 540	-	●
SE 6102 SV	-	●	●	RP 500	-	●
SE 6104 VPT	-	●	●	RP 540	-	●
SE 6106 HiFi	-	●	●	RP 540	-	●

Video Remote Control Codes GV 740 to GV ..

Type of VCR	RC 5 Code			RC Transmitter	RC 5 Code		
	16Bit Level 1	16Bit Level 2	16Bit Level 1		16Bit Level 2		
GV 709 M	-	-	-	RP 709/729	-	-	-
GV 729 M	-	-	-	RP 709/729	-	-	-
GV 740 HiFi	-	●	●	RP 500 / RP 7	-	●	●
GV 740 NIC	-	●	●	RP 500 / RP 7	-	●	●
GV 7000 EURO	●	-	-	RP 170 FR	●	-	-
GV 7000 SV	●	-	-	RP 170	●	-	-
GV 7000 SV-C	●	-	-	RP 170	●	-	-
GV 7003	●	-	-	RP 170	●	-	-
GV 7300 EURO	●	-	-	RP 170 FR	●	-	-
GV 7300 SV	●	-	-	RP 170	●	-	-
GV 7300 SV/5	●	-	-	RP 170	●	-	-
GV 7400 EURO	●	-	-	RP 170 FR	●	-	-
GV 7400 HiFi	●	-	-	RP 170	●	-	-
GV 7400 HiFi/5	●	-	-	RP 170	●	-	-
GV 7400 NIC	●	-	-	RP 170	●	-	-
GV 7400 NIC2	●	-	-	RP 170	●	-	-
GV 7497 NIC	-	●	●	RP 500 / RP 7	-	●	●
GV 27	●	-	-	RP 170	●	-	-
GV 27 EURO	●	-	-	RP 170 FR	●	-	-
GV 27 VPS/5	●	-	-	RP 170	●	-	-
GV 47	●	-	-	RP 170	●	-	-
GV 47 VPS/5	●	-	-	RP 170	●	-	-
KV 7001 VPS/5	●	-	-	RP 170	●	-	-
KV 7301 VPS/5	●	-	-	RP 170	●	-	-
MV 6001 SV	-	*	*	*	-	*	*
SE 7100 SV	●	-	-	RP 170	●	-	-
SE 7104	-	●	●	RP 500 / RP 7	-	●	●
SE 7105 HiFi	●	-	-	RP 170	●	-	-
SE 7106 HiFi	-	●	●	RP 500 / RP 7	-	●	●
GV 819 M	-	*	*	*	-	*	*
GV 8000 EURO	●	-	-	RP 700 FR	●	-	-
GV 8000 GB	●	-	-	RP 700	●	-	-
GV 8000 SV/1	●	-	-	RP 700	●	-	-
GV 8000 SV/2	●	-	-	RP 700	●	-	-
GV 8000 SV/5	●	-	-	RP 700	●	-	-
GV 8050 SV	●	-	-	RP 700	●	-	-
GV 8300 EURO	●	-	-	RP 700 FR	●	-	-
GV 8300 SV	●	-	-	RP 700	●	-	-
GV 8300 SV/5	●	-	-	RP 700	●	-	-
GV 8400 EURO	●	-	-	RP 700 FR	●	-	-
GV 8400 GB	●	-	-	RP 700	●	-	-
GV 8400 HiFi	●	-	-	RP 700	●	-	-
GV 8400 HiFi/5	●	-	-	RP 700	●	-	-
GV 8400 NIC 1	●	-	-	RP 700	●	-	-
GV 8400 NIC 2	●	-	-	RP 700	●	-	-
GV 8450 HiFi	●	-	-	RP 700	●	-	-
KV 8001 VPS/5	●	-	-	RP 700	●	-	-
KV 8301 VPS/5	●	-	-	RP 700	●	-	-
KV 8401 HiFi/5	●	-	-	RP 700	●	-	-
SE 8100 SV / Palermo	●	-	-	RP 700	●	-	-
SE 8105 HiFi / Sevilla	●	-	-	RP 700	●	-	-

* Data not yet available on editorial close

Continuous Operation and Special Functions GV 200 to GV 280

Press the "Code" button, enter code number 85 .. and press the "OK" button

Function	Code	GV 200	201	201-1	210	211	220	230	240	250	280S	280PC
Electronic Lock	8 5 0 0	3)	3)	-	3)	3)	3)	3)	3)	3)	4)	4)

Press the "Code" button, enter code number 8501, press the "OK" and function button(s).

Function	Code	GV 200	201	201-1	210	211	220	230	240	250	280S	280PC
Continuous Recording Prog 1...	8 5 0 1	1)	-	-	-	2)	-	●	●	●	4)	4)
Continuous Recording AV	8 5 0 1	1)	-	-	-	2)	-	●	●	●	4)	4)
Continuous Playback	8 5 0 1	1)	-	-	-	2)	-	●	●	●	4)	4)
Continuous Recording SAT	8 5 0 1	-	-	-	-	-	-	●	●	●	4)	4)

Press the "Code" button, enter code number 85 .. and press the "OK" button

Function	Code	GV 200	201	201-1	210	211	220	230	240	250	280S	280PC
V-insertion On	8 5 1 0	●	-	-	-	●	●	●	●	●	4)	4)
V-insertion Off	8 5 1 1	●	-	-	-	●	●	●	●	●	4)	4)
Video 1 16 Bit	8 5 1 6	●	●	-	●	●	●	●	●	●	4)	4)
Video 2 16 Bit	8 5 1 7	●	●	-	●	●	●	●	●	●	4)	4)
HF-Modulator Off	8 5 1 8	●	●	-	●	●	●	●	●	●	4)	4)
HF-Modulator On	8 5 1 9	●	●	-	●	●	●	●	●	●	4)	4)
Reception of 10 Bit Code free	8 5 2 6	●	●	-	●	●	●	●	●	●	4)	4)
Reception of 10 Bit Code blocked	8 5 2 7	●	●	-	●	●	●	●	●	●	4)	4)
Pause V-pulse Adjustment	8 5 2 8	●	●	-	●	●	●	●	●	●	-	-
DOS 312/312 Lines On	8 5 4 6	-	●	-	-	-	●	●	●	●	4)	4)
DOS 312/313 Lines On	8 5 4 7	-	●	-	-	-	●	●	●	●	4)	4)
Piezoelectric Beeper Off	8 5 6 2	1)	-	-	-	1)	1)	1)	1)	-	-	-
Piezoelectric Beeper On	8 5 6 3	1)	-	-	-	1)	1)	1)	1)	-	-	-
Cassette No. Archive	8 5 9 6	-	-	-	-	-	-	-	-	●	4)	4)

Press the "Code" button, enter code number 85 .. and press the "CASS" button

Function	Code	GV 200	201	201-1	210	211	220	230	240	250	280S	280PC
Data Programmer IDP 1	8 5 2 7	●	●	-	●	●	●	●	●	●	4)	4)
Data Programmer IDP 2	8 5 2 8	●	●	-	●	●	●	●	●	●	4)	4)

Press the "Code" button, enter code number 4934, press the Archive button and enter code 2264.

Function	Code	GV 200	201	201-1	210	211	220	230	240	250	280S	280S
Initialisation of the expanded Archive Memory *	2 2 6 4	-	-	-	-	-	-	●	-	●	4)	4)

* Please strictly observe the instructions given on page 1-21 of the Service Manual before expanding the memory!!!

- 1) Only Cityline recorders
- 2) Only Super Elite recorders
- 3) The Electronic Lock is entered with the Key function (see user instructions)
- 4) The "Code" button is not pressed for GV 280S and GV 280PC

Continuous Operation and Special Functions GV 400 to GV 4192

Function	Code	GV 400	GV 400 GB	GV 400 OST	GV 400 VPS	GV 401 VPT	GV 402	GV 404 SV	GV 405 EURO	GV 406 EURO	GV 409	GV 410	GV 410 VPS	GV 411	GV 411 OST	GV 411-1	GV 411-2	GV 412	GV 414 SV	GV 415 EURO	GV 416 EURO	GV 4092 SV	GV 4192 SV	MV 4005	MV 4105	SE 4100 VPS	SE 4104 SV	SE 4120 SV		
Electronic Lock	-	1)	2)	2)	2)	2)	1)	2)	2)	2)	1)	2)	2)	2)	1)	1)	1)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)

- 1) No code. Only press the Standby button until "LOCK" (locked) or "ULOC" (unlocked) is displayed on the recorder.
 2) No code. Only press the button marked with the key symbol, enter the personal ident number and press "OK"..

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GV 400	GV 400 GB	GV 400 OST	GV 400 VPS	GV 401 VPT	GV 402	GV 404 SV	GV 405 EURO	GV 406 EURO	GV 409	GV 410	GV 410 VPS	GV 411	GV 411 OST	GV 411-1	GV 411-2	GV 412	GV 414 SV	GV 415 EURO	GV 416 EURO	GV 4092 SV	GV 4192 SV	MV 4005	MV 4105	SE 4100 VPS	SE 4104 SV	SE 4120 SV	
Continuous Recording Prog 1...	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Continuous Recording AV	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Continuous Playback	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GV 400	GV 400 GB	GV 400 OST	GV 400 VPS	GV 401 VPT	GV 402	GV 404 SV	GV 405 EURO	GV 406 EURO	GV 409	GV 410	GV 410 VPS	GV 411	GV 411 OST	GV 411-1	GV 411-2	GV 412	GV 414 SV	GV 415 EURO	GV 416 EURO	GV 4092 SV	GV 4192 SV	MV 4005	MV 4105	SE 4100 VPS	SE 4104 SV	SE 4120 SV	
V-insertion Off	8 5 1 0	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
V-insertion On	8 5 1 1	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Video 1 Control Level	8 5 1 6	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Video 2 Control Level	8 5 1 7	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HF-Modulator Off	8 5 1 8	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HF-Modulator On	8 5 1 9	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pause V-pulse Adjustment	8 5 2 8	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Piezoelectric Beeper Off	8 5 6 2	.	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Piezoelectric Beeper On	8 5 6 3	.	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Manual Station Tuning	8 5 7 0	.	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Station Search	8 5 7 1	.	●	.	.	.	.	.	.	.	.	.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Continuous Operation and Special Functions GV 420 to GV 470 (Part 1)

Function	Code	GV 420 VPT	GV 430	GV 430 GB	GV 430 VPS	GV 434 SV	GV 435 EURO	GV 440 NIC	GV 440 VPS	GV 450	GV 450 GB	GV 450 NIC	GV 450 VPT	GV 460 NIC	GV 460 VPT	GV 464 HIFI	GV 464 NIC	GV 465 EURO	GV 469 M	GV 470 PC	GV 470 S	GV 4592 VPT	GV 4592 VPT SV	
Electronic Lock	-	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)

1) No code. Only press the Standby button until "LOCK" (locked) or "ULOC" (unlocked) is displayed on the recorder.

2) No code. Only press the button marked with the key symbol, enter the personal ident number and press "OK".

Press the "Code" button, enter code number 8501, press "OK" and the function button(s).

Function	Code	GV 420 VPT	GV 430	GV 430 GB	GV 430 VPS	GV 434 SV	GV 435 EURO	GV 440 NIC	GV 440 VPS	GV 450	GV 450 GB	GV 450 NIC	GV 450 VPT	GV 460 NIC	GV 460 VPT	GV 464 HIFI	GV 464 NIC	GV 465 EURO	GV 469 M	GV 470 PC	GV 470 S	GV 4592 VPT	GV 4592 VPT SV
Continuous Recording Prog 1...	8 5 0 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Continuous Recording AV	8 5 0 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Continuous Playback	8 5 0 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Function	Code	GV 420 VPT	GV 430	GV 430 GB	GV 430 VPS	GV 434 SV	GV 435 EURO	GV 440 NIC	GV 440 VPS	GV 450	GV 450 GB	GV 450 NIC	GV 450 VPT	GV 460 NIC	GV 460 VPT	GV 464 HIFI	GV 464 NIC	GV 465 EURO	GV 469 M	GV 470 PC	GV 470 S	GV 4592 VPT	GV 4592 VPT SV
Data Programmer IDP 2	8 5 2 8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Continuous Operation and Special Functions GV 420 to GV 470 (Part 2)

Press the "Code" button, enter code number 85 .. and press the "OK" button

Function	Code	GV 420 VPT	GV 430	GV 430 GB	GV 430 VPS	GV 434 SV	GV 436 EURO	GV 440 NIC	GV 440 VPS	GV 450	GV 450 GB	GV 450 NIC	GV 450 VPT	GV 460 NIC	GV 460 VPT	GV 464 HFI	GV 464 NIC	GV 465 EURO	GV 469 M	GV 470 PC	GV 470 S	GV 4592 VPT	GV 4592 VPT SV
V-insertion On	85 1 0	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V-insertion Off	85 1 1	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E-to-E Mode (AV2 -> AV1) On	85 1 3	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E-to-E Mode (AV2 -> AV1) Off	85 1 4	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AV-switching voltage On	85 1 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AV-switching voltage Off	85 1 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Video 1 Control Level	85 1 6	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Video 2 Control Level	85 1 7	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HF Modulator Off	85 1 8	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HF Modulator On	85 1 9	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reception of the 10 Bit Code free	85 2 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reception of the 10 Bit Code blocked	85 2 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pause V-pulse Adjustment	85 2 8	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Automatic 16:9 Identification Off	85 3 2	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Automatic 16:9 Identification On	85 3 3	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Info Message for PAY-TV Stations Off	85 4 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Info Message for PAY-TV Stations On	85 4 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOS 312/312 Lines On	85 4 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOS 312/313 Lines On	85 4 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NICAM Test No	85 6 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NICAM Test Yes	85 6 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Piezoelectric Beeper Off	85 6 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Piezoelectric Beeper On	85 6 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manual Station Tuning	85 7 0	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Station Search	85 7 1	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All Playback Speeds with the Shuttle on the Remote Control Transmitter	85 8 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Only Picture Search Forward and Reverse with Shuttle on Remote Control Transmitter	85 8 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Changing the Cassette No. for the Archive	85 9 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Continuous Operation and Special Functions GV 500 to GV 565

Press the "Code" button, enter code number 8501, press "OK" and function button(s).

Function	Code	GV 500 GB	GV 500 SV	GV 500 SV/1	GV 501 VPT	GV 505 EURO	GV 506 EURO	GV 509 M	GV 510 SV	GV 511	GV 515 EURO	GV 530 SV	GV 530 SV/1	GV 535 EURO	GV 540 GB	GV 540 HIFI	GV 540 NIC	GV 545 EURO	GV 560 HIFI	GV 560 HIFI/5	GV 560 HIFI LE	GV 560 NIC	GV 565 EURO
Continuous Recording Prog 1...	8 5 0 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Continuous Recording AV	8 5 0 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Continuous Playback	8 5 0 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Press the "Code" button, enter code number 85 .. and press "OK".

Function	Code	GV 500 GB	GV 500 SV	GV 500 SV/1	GV 501 VPT	GV 505 EURO	GV 506 EURO	GV 509 M	GV 510 SV	GV 511	GV 515 EURO	GV 530 SV	GV 530 SV/1	GV 535 EURO	GV 540 GB	GV 540 HIFI	GV 540 NIC	GV 545 EURO	GV 560 HIFI	GV 560 HIFI/5	GV 560 HIFI LE	GV 560 NIC	GV 565 EURO
V-insertion On	8 5 1 0	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
V-insertion Off	8 5 1 1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Video 1 Control Level	8 5 1 6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Video 2 Control Level	8 5 1 7	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HF Modulator Off	8 5 1 8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
HF Modulator On	8 5 1 9	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●
NICAM Test No	8 5 6 0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	●	-
NICAM Test Yes	8 5 6 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	●	-
Piezoelectric Beeper Off	8 5 6 2	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-
Piezoelectric Beeper On	8 5 6 3	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-

Continuous Operation and Special Functions GV 5000 to GV 5695

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GV 5000	GV 5000 EURO	GV 5000 GB	GV 5000 SAA	GV 5000 VPS	GV 5000 VPS /5	GV 5002 VPS	GV 5003	GV 5008 SV	GV 5050	GV 5050 SV	GV 5050 SV /1	GV 5055 EURO	GV 5095 SV	GV 5095 SV /1	GV 5300	GV 5300 VPS	GV 5300 VPS /5	GV 5305 EURO	GV 5395 SV	GV 5395 SV /1	GV 5400 EURO	GV 5400 HIFI	GV 5400 NIC	GV 5695 HIFI
Continuous Recording Prog 1...	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Recording AV	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Playback	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GV 5000	GV 5000 EURO	GV 5000 GB	GV 5000 SAA	GV 5000 VPS	GV 5000 VPS /5	GV 5002 VPS	GV 5003	GV 5008 SV	GV 5050	GV 5050 SV	GV 5050 SV /1	GV 5055 EURO	GV 5095 SV	GV 5095 SV /1	GV 5300	GV 5300 VPS	GV 5300 VPS /5	GV 5305 EURO	GV 5395 SV	GV 5395 SV /1	GV 5400 EURO	GV 5400 HIFI	GV 5400 NIC	GV 5695 HIFI
V-insertion On	8 5 1 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
V-insertion Off	8 5 1 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Video 1 Control Level	8 5 1 6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Video 2 Control Level	8 5 1 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HF Modulator Off	8 5 1 8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HF Modulator On	8 5 1 9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Reception of 10 Bit Code free	8 5 2 6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Reception of 10 Bit Code blocked	8 5 2 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pause V-pulse Adjustment	8 5 2 8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Piezoelectric Beeper Off	8 5 6 2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Piezoelectric Beeper On	8 5 6 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Continuous Operation and Special Functions GV 25, GV 45, KV 5..., SE 51..

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GV 25 SV /5	GV 45 SV /5	KV 5001 VPS /5	KV 5301 VPS /5	SE 5102 SV	SE 5104 SV	SE 5106 HIFI
Continuous Recording Prog 1...	8 5 0 1	.	.	.	.	●	●	●
Continuous Recording AV	8 5 0 1	.	.	.	.	●	●	●
Continuous Playback	8 5 0 1	.	.	.	.	●	●	●

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GV 25 SV /5	GV 45 SV /5	KV 5001 VPS /5	KV 5301 VPS /5	SE 5102 SV	SE 5104 SV	SE 5106 HIFI
V-insertion On	8 5 1 0	.	.	.	.	●	●	●
V-insertion Off	8 5 1 1	.	.	.	.	●	●	●
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	.	.	.	.	●	●	●
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	.	.	.	.	●	●	●
Video 1 Control Level	8 5 1 6	.	.	.	.	●	●	●
Video 2 Control Level	8 5 1 7	.	.	.	.	●	●	●
HF Modulator Off	8 5 1 8	.	.	.	.	●	●	●
HF Modulator On	8 5 1 9	.	.	.	.	●	●	●
Pause V-pulse Adjustment	8 5 2 8	.	.	.	.	●	●	.
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	.	.	.	.	.	.	●
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	.	.	.	.	.	.	●
Piezoelectric Beeper Off	8 5 6 2	.	.	.	.	●	●	●
Piezoelectric Beeper On	8 5 6 3	.	.	.	.	●	●	●

Continuous Operation and Special Functions GV 600 to GV 690

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GV 600 SV	GV 600 SV/1	GV 605 EURO	GV 609 M*	GV 630 SV	GV 630 SV/1	GV 635 EURO	GV 640 HIFI	GV 640 NIC	GV 645 EURO	GV 650 HIFI	GV 660 HIFI	GV 660 NIC	GV 665 EURO	GV 670 S NIC	GV 670S HIFI	GV 690 S HIFI	GV 690 S NIC
Continuous Recording Prog 1...	8 5 0 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Continuous Recording AV	8 5 0 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Continuous Playback	8 5 0 1	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GV 600 SV	GV 600 SV/1	GV 605 EURO	GV 609 M	GV 630 SV	GV 630 SV/1	GV 635 EURO	GV 640 HIFI	GV 640 NIC	GV 645 EURO	GV 650 HIFI	GV 660 HIFI	GV 660 NIC	GV 665 EURO	GV 670 S NIC	GV 670S HIFI	GV 690 S HIFI	GV 690 S NIC
V-insertion On	8 5 1 0	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
V-insertion Off	8 5 1 1	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Video 1 Control Level	8 5 1 6	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Video 2 Control Level	8 5 1 7	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HF Modulator Off	8 5 1 8	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HF Modulator On	8 5 1 9	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Reception of 10 Bit Code free	8 5 2 6	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Reception of 10 Bit Code blocked	8 5 2 7	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
NICAM Test No	8 5 6 0	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•
NICAM Test Yes	8 5 6 1	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•

Continuous Operation and Special Functions GV 6000 to GV 6596

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GV 6000 EURO	GV 6000 SV	GV 6000 SV/1	GV 6001 V+	GV 6066	GV 6096 SV	GV 6096 SV/1	GV 6300 EURO	GV 6300 SV	GV 6300 SV/1	GV 6396 VPT	GV 6400 EURO	GV 6400 HIFI	GV 6400 HIFI/5	GV 6400 NIC	GV 6401 NIC	GV 6596 HIFI	GV 6596 NIC	
Continuous Recording Prog 1...	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Recording AV	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Playback	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GV 6000 EURO	GV 6000 SV	GV 6000 SV/1	GV 6001 V+	GV 6066	GV 6096 SV	GV 6096 SV/1	GV 6300 EURO	GV 6300 SV	GV 6300 SV/1	GV 6396 VPT	GV 6400 EURO	GV 6400 HIFI	GV 6400 HIFI/5	GV 6400 NIC	GV 6401 NIC	GV 6596 HIFI	GV 6596 NIC	
V-insertion On	8 5 1 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
V-insertion Off	8 5 1 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Video 1 Control Level	8 5 1 6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Video 2 Control Level	8 5 1 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HF Modulator Off	8 5 1 8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
HF Modulator On	8 5 1 9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Reception of 10 Bit Code free	8 5 2 6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Reception of 10 Bit Code blocked	8 5 2 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Piezoelectric Beeper Off	8 5 6 2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Piezoelectric Beeper On	8 5 6 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Continuous Operation and Special Functions GVP 600, GV 26, GV 46, SE 61..

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GVP 600	ICN	EURO	GV 26	GV 26 EURO	GV 26 VPS	GV 46	GV 46 VPS	SE 6102 SV	SE 6104 VPT	SE 6106 HIFI
Continuous Recording Prog 1...	8 5 0 1	-	-	-	-	-	-	-	-	●	●	●
Continuous Recording AV	8 5 0 1	-	-	-	-	-	-	-	-	●	●	●
Continuous Playback	8 5 0 1	-	-	-	-	-	-	-	-	●	●	●

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GVP 600	ICN	EURO	GV 26	GV 26 EURO	GV 26 VPS	GV 46	GV 46 VPS	SE 6102 SV	SE 6104 VPT	SE 6106 HIFI
V-insertion On	8 5 1 0	-	-	-	-	-	-	-	-	●	●	●
V-insertion Off	8 5 1 1	-	-	-	-	-	-	-	-	●	●	●
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	-	-	-	-	-	-	-	-	●	●	●
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	-	-	-	-	-	-	-	-	●	●	●
Video 1 Control Level	8 5 1 6	-	-	-	-	-	-	-	-	●	●	●
Video 2 Control Level	8 5 1 7	-	-	-	-	-	-	-	-	●	●	●
HF Modulator Off	8 5 1 8	-	-	-	-	-	-	-	-	●	●	●
HF Modulator On	8 5 1 9	-	-	-	-	-	-	-	-	●	●	●
Reception of 10 Bit Code free	8 5 2 6	-	-	-	-	-	-	-	-	●	●	●
Reception of 10 Bit Code blocked	8 5 2 7	-	-	-	-	-	-	-	-	●	●	●
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	-	-	-	-	-	-	-	-	●	●	●
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	-	-	-	-	-	-	-	-	●	●	●
Piezoelectric Beeper Off	8 5 6 2	-	-	-	-	-	-	-	-	●	●	●
Piezoelectric Beeper On	8 5 6 3	-	-	-	-	-	-	-	-	●	●	●

Continuous Operation and Special Functions GV 709 to GV 7497

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GV 709 M	GV 729 M	GV 740 HiFi	GV 740 NiC	GV 7000 EURO	GV 7000 SV	GV 7000 SV-C	GV 7003	GV 7300 EURO	GV 7300 SV	GV 7300 SV/5	GV 7400 EURO	GV 7400 HiFi	GV 7400 HiFi/5	GV 7400 NiC	GV 7400 NiC2	GV 7497 NiC	
Continuous Recording Prog 1...	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Recording AV	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Playback	8 5 0 1	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GV 709 M	GV 729 M	GV 740 HiFi	GV 740 NiC	GV 7000 EURO	GV 7000 SV	GV 7000 SV-C	GV 7003	GV 7300 EURO	GV 7300 SV	GV 7300 SV/5	GV 7400 EURO	GV 7400 HiFi	GV 7400 HiFi/5	GV 7400 NiC	GV 7400 NiC2	GV 7497 NiC	
V-insertion On	8 5 1 0	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
V-insertion Off	8 5 1 1	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
Switching Voltage at A1 On	8 5 1 3	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
Switching Voltage at A1 Off	8 5 1 4	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
Video 1 Control Level	8 5 1 6	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
Video 2 Control Level	8 5 1 7	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
HF Modulator Off	8 5 1 8	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
HF Modulator On	8 5 1 9	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
Reception of 10 Bit Code free	8 5 2 6	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
Reception of 10 Bit Code blocked	8 5 2 7	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	.	.	●	●	.	.	.	.	.	.	.	.	.	.	.	.	.	●

Continuous Operation and Special Functions GV 819 to GV 8450

GV 819 M
GV 8000 EURO
GV 8000 GB
GV 8000 SV/1
GV 8000 SV/2
GV 8000 SV/5
GV 8050 SV
GV 8300 EURO
GV 8300 SV
GV 8300 SV/5
GV 8400 EURO
GV 8400 GB
GV 8400 HIFI
GV 8400 HIFI/5
GV 8400 NIC 1
GV 8400 NIC 2
GV 8450 HIFI

None of the usual continuous operation and special functions.

Continuous Operation and Special Functions GV 27, GV 47, KV 7.., KV 8.., SE 7.., SE 8..

Press the "Code" button, enter code number 8501, press the "OK" and function button(s)

Function	Code	GV 27	GV 27 EURO	GV 27 VPS/5	GV 47	GV 47 VPS/5	KV 7001 VPS/5	KV 7301 VPS/5	KV 8001 VPS/5	KV 8301 VPS/5	KV 8401 HIFI/5	SE 7100 SV	SE 7104 SV	SE 7105 HIFI	SE 7106 HIFI	SE 8100 SV	SE 8105 HIFI	
Continuous Recording Prog 1...	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Recording AV	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Continuous Playback	8 5 0 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Press the "Code" button, enter code number 85 .. and press "OK"

Function	Code	GV 27	GV 27 EURO	GV 27 VPS/5	GV 47	GV 47 VPS/5	KV 7001 VPS/5	KV 7301 VPS/5	KV 8001 VPS/5	KV 8301 VPS/5	KV 8401 HIFI/5	SE 7100 SV	SE 7104 SV	SE 7105 HIFI	SE 7106 HIFI	SE 8100 SV	SE 8105 HIFI	
V-insertion On	8 5 1 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
V-insertion Off	8 5 1 1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Switching Voltage at A1 On	8 5 1 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Switching Voltage at A1 Off	8 5 1 4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOS 312/312 Lines On (for 50Hz)	8 5 4 6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOS 312/313 Lines On (for 100Hz)	8 5 4 7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Cancelling the Electronic Lock (Part 1)

VS 200 to VS 267

- Switch the video recorder off
- Remove the top of the cabinet
- Unplug the B1 connector on the sequence control
- Switch the recorder on
- After approx. 2 seconds, re-insert the B1 connector
- Switch the video recorder off
- Re-fit the top of the cabinet

VS 300 to VS 460

- Switch the video recorder off
- Remove the top of the cabinet
- Switch the recorder on
- Interconnect the service test points on the keyboard control unit for a short period
- Press the STOP button
- Switch the video recorder off
- Re-fit the top of the cabinet

VS 500

- Enter the numbers 4 9 3 4 on the remote control handset in this order and confirm with the button "0000"
- Press the STOP button

VS 505 to VS 510

- Enter the numbers 4 9 3 4 on the remote control handset in this order and confirm with the "OK" button
- Press the STOP button

VS 520 to VS 550

- Switch the video recorder off
- Remove the top of the cabinet
- Switch the recorder on
- Interconnect the service test points on the keyboard control unit for a short period
- Press the STOP button
- Switch the video recorder off
- Re-fit the top of the cabinet

VS 600 to VS 960

- Enter the numbers 4 9 3 4 on the remote control handset in this order and confirm with the "OK" button
- Press the STOP button

GV 200 to GV 250

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 on the remote control handset in this order and confirm with the "OK" button
- Press the STOP button

GV 201-1

- Press the "STANDBY" button on the remote control handset until "FREE" is indicated on the display of the video recorder.

Cancelling the Electronic Lock (Part 2)

GV 280PC, GV 280S

- Enter the numbers 4 9 3 4 in this order on the remote control handset and confirm with the "OK" button
- Press the STOP button

GV 400, GV 400 GB and GV 400 OST

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "UNLO" appears on the display of the recorder.

GV 400 VPS and GV 401 VPT

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the recorder from the mains

GV 402

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "UNLO" appears on the display of the recorder.

GV 404 SV, GV 405 EURO and GV 406 EURO

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the recorder from the mains

GV 410

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "UNLO" appears on the display of the recorder.

GV 410 VPS and GV 411

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the recorder from the mains

GV 411-1

- Press and hold the "STAND-BY" button on the remote control handset (ca.5 seconds), until "UNLOCKED" appears on the display of the recorder.

GV 411-2

Without parental lock / electronic lock

GV 411 OST and GV 412

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "UNLO" appears on the display of the recorder.

GV 414 SV, GV 415 EURO, GV 416 EURO and GV 420 VPT

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the recorder from the mains

Canceling the Electronic Lock (Part 3)

GV 430 and GV 430 GB

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "UNLO" appears on the display of the recorder.

GV 430 VPS, GV 434 SV and GV 435 EURO

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 440 .. , GV 450 .. , GV 460 .. , GV 464 .. , GV 465 EURO and GV 470 ..

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 4000 VPS and GV 4001

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "UNLO" appears on the display of the recorder.

GV 4003 VPS

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "FREE" appears on the display of the recorder.

GV 4010 SV-VPT, GV 4092 .. , GV 4192 VPS, GV 4200 SV-VPT, GV 4400 HiFi and GV 4592 ...

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

SE 4100 VPS, SE 4104 SV and SE 4120 SV

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

MV 4005 and MV 4105

- With the video recorder switched off (Stand-by) press the Stop button on the remote control handset until "UNLO" appears on the display of the recorder.

GV 500 .., GV 501 VPT, GV 505 EURO and GV 506 EURO

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 509 M

Without parental lock / electronic lock

GV 510 SV, GV 511, GV 515 EURO, GV 530.., GV 535 EURO, GV 540.., GV 545 EURO, GV 560.. and GV 565 EURO

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

Canceling the Electronic Lock (Part 4)

GV 5000, GV 5000 GB, GV 5000 VPS and GV 5000 VPS/5

- Press the "STAND-BY" button on the remote control handset until "FREE" appears on the display of the recorder.

GV 5000 SAA

- Press the "STAND-BY" button on the remote control handset until "UNLOCKED" appears on the display of the recorder.

GV 5002 VPS, GV 5003, GV 5008 and GV 5050

- Press the "STAND-BY" button on the remote control handset until "FREE" appears on the display of the recorder.

GV 5050 SV, GV 5050 SV/1, GV 5055 EURO and GV 5095 ..

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 5300 ..

- Press the "STAND-BY" button on the remote control handset until "FREE" appears on the display of the recorder.

GV 5395 .. , GV 5400 .. and GV 5695 HiFi

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 25 SV/5 and GV 45 SV/5

- Press the "STAND-BY" button on the remote control handset until "FREE" appears on the display of the recorder.

KV 5001 VPS/5 and KV 5301 VPS/5

- Press the "STAND-BY" button on the remote control handset until "FREE" appears on the display of the recorder.

SE 5102 SV, SE 5104 SV and SE 5106 HiFi

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 600, GV 630, GV 640 HiFi, GV 640 NIC, GV 645 EURO, GV 650 HiFi, GV 660 HiFi, GV 660 NIC, GV 665 EURO, GV 670 S HiFi, GV 670 S NIC, GV 690 S HiFi, GV 690 S NIC

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 6096 SV, GV 6096 SV/1, GV6396 SV, GV 6596 HiFi, GV 6596 NIC

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

Canceling the Electronic Lock (Part 5)

SE 6102 SV, SE 6104 SV, SE 6106 HiFi

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GVP 600 ICN EURO

- Press the "STAND-BY" button on the remote control handset until "FREE" appears on the display of the recorder.

GV 740..., GV 745 EURO

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 7400..

- Press and hold down the buttons "STAND-BY" and "SELECT" simultaneously on the remote control handset until the key symbol disappears from the display of the recorder.

GV 7497 NIC

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

SE 7104 SV

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

SE 7105

- Press and hold down the buttons "STAND-BY" and "SELECT" simultaneously on the remote control handset until the key symbol disappears from the display of the recorder.

SE 7106 HiFi

- Press the "CODE" button on the remote control handset
- Enter the numbers 4 9 3 4 in this order and confirm with the "OK" button
- Press the "STAND-BY" button or disconnect the video recorder from the mains

GV 8..., KV 8..., SE 8..





- Press and hold down the buttons "STAND-BY" and "SELECT" simultaneously on the remote control handset until the key symbol disappears from the display of the recorder.

Cancelling the Electronic Lock (Part 6)

TVR 3700

- Press and hold the Stop button on the remote control handset and depress the Play button on the video recorder
- Press the "STAND-BY" button or disconnect the video recorder from the mains





TVR 3701, TVR 3705, TVR 3710, TVR 3720, TVR 3730

- Press the cursor buttons on the remote control handset in this order    

TVR 4500 and TVR 4510

- Switch the unit off and disconnect it from the mains
- Remove the rear of the cabinet
- Disconnect the cable and pull the video recorder out of the cabinet towards the back
- Connect the unit to the mains and switch it on
- Interconnect the service test points on the keyboard control unit for a short period
- Switch the unit off and disconnect it from the mains
- Push the video recorder into the cabinet from the back and connect the cable
- Re-fit the rear of the cabinet





TVR 5100, TVR 5130, TVR 5500

- Press the cursor buttons on the remote control handset in this order    

TVR 5510

- Switch the unit off and disconnect it from the mains
- Remove the rear of the cabinet
- Disconnect the cable and pull the video recorder out of the cabinet towards the back
- Connect the unit to the mains and switch it on
- Interconnect the service test points on the keyboard control unit for a short period
- Switch the unit off and disconnect it from the mains
- Push the video recorder into the cabinet from the back and connect the cable
- Re-fit the rear of the cabinet

TVR 5530

- Press the cursor buttons on the remote control handset in this order    

Jigs and Tools for Video Recorders (Part 1)

Designation	Part No.	VS 500	VS 505	VS 510	VS 520	VS 530	VS 540	VS 550	VS 600	VS 610	VS 620	VS 630	VS 640	VS 650	VS 660	VS 680	VS 700	VS 710	VS 720	VS 740	VS 790	VS 800	VS 820
		Tape Tension Meter	75987 262 7400	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Plate	75987 262 7500	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Gauge	75987 262 8700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Dial Gauge	75987 262 7600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.1N to 1N	72001 401 0000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.5N to 5N	72001 403 0000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75987 262 9600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Reference Plate	75987 262 8600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hex Head Wrench 2mm	72004 082 0000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter 501	27505 033 0100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter 502	27505 034 0100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter 503	27505 036 0100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter Set	72008 453 5000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette FM-Sound	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.	VS 900	VS 901	VS 902	VS 910	VS 920	VS 922	VS 930	VS 940	VS 960	GV 200	GV 201	GV 210	GV 211	GV 220	GV 230	GV 240	GV 250	GV 280S	
		Tape Tension Meter	75987 262 7400	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Plate	75987 262 7600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Gauge	75987 262 8700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Dial Gauge	75987 262 7500	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.1N to 1N	72001 401 0000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.5N to 5N	72001 403 0000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75987 262 9600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Reference Plate	75987 262 8600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hex Head Wrench 2mm	72004 082 0000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter 501	27505 033 0100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter 502	27505 034 0100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter 503	27505 036 0100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter Set	72008 453 5000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette FM-Sound	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.	GV 201-1
		Test Cassette	92754 010 1100	●
Test Cassette	92754 010 1600	●
Adapter	75987 262 7300	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●
Torquemeter 600gf-cm	75987 262 7200	●
Adjustment Screwdriver	75987 262 8000	●
Nylon Gloves	com. available	●
Tentelometer	com. available	●
Headwheel Extractor	75988 002 3700	●

Jigs and Tools for Video Recorders (Part 2)

Designation	Part No.																					
		GV 400	GV 400 GB	GV 400 OST	GV 400 VPS	GV 401 VPT	GV 402	GV 404 SV	GV 405 EURO	GV 406 EURO	GV 409 M *	GV 410	GV 410 VPS	GV 411	GV 411 OST	GV 411-1	GV 411-2	GV 412	GV 414 SV	GV 415 EURO	GV 416 EURO	
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torqueometer 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.																				
		GV 420 VPT	GV 430	GV 430 GB	GV 430 VPS	GV 434 SV	GV 440 NIC	GV 440 VPS	GV 450	GV 450 GB	GV 450 NIC	GV 450 VPT	GV 460 NIC	GV 460 VPT	GV 464 HIFI	GV 464 NIC	GV 465 EURO	GV 468 M	GV 470 PC	GV 470 S	
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torqueometer 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.														
		GV 4000 VPS	GV 4010 SV-VPT	GV 4092 SV	GV 4092 VPS	GV 4192 SV	GV 4200 SV-VPT	GV 4592 VPT	MV 4005	MV 4105	SE 4100 VPS	SE 4104 SV	SE 4120 SV		
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●		
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●		
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●	●	●	●		
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●		
Torqueometer 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●		
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●		
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●		
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●		
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●	●	●	●		

* see Service Manual page 1-2

Jigs and Tools for Video Recorders (Part 3)

Designation	Part No.	GV 500 GB	GV 500 SV	GV 500 SV /1	GV 501 VPT	GV 505 EURO	GV 506 EURO	GV 509 M*	GV 510 SV	GV 511	GV 515 EURO	GV 530 SV	GV 530 SV /1	GV 535 EURO	GV 540 GB	GV 540 HIFI	GV 540 NIC	GV 545 EURO	GV 560 HIFI	GV 560 HIFI /5	GV 560 HIFI LE	GV 560 NIC	GV 565 EURO	
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.	GV 5000	GV 5000 EURO	GV 5000 GB	GV 5000 SAA	GV 5000 VPS	GV 5000 VPS /5	GV 5002 VPS	GV 5003	GV 5008 SV	GV 5050	GV 5050 SV	GV 5050 SV /1	GV 5055 EURO	GV 5095 SV	GV 5095 SV /1	GV 5300	GV 5300 VPS	GV 5300 VPS /5	GV 5305 EURO	GV 5395 SV	GV 5395 SV /1	GV 5400 EURO	GV 5400 HIFI	GV 5400 NIC	GV 5695 HIFI	
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.	GV 25 SV /5	GV 45 SV /5	KV 5001 VPS /5	KV 5301 VPS /5	SE 5102 SV	SE 5104 SV	SE 5106 HIFI
Test Cassette	92754 010 1100	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●

* see Service Manual page 1-2

Jigs and Tools for Video Recorders (Part 4)

Designation	Part No.	GV 600 SV	GV 600 SV/1	GV 605 EURO	GV 609 M *	GV 630 SV	GV 630 SV/1	GV 635 EURO	GV 640 HIFI	GV 640 NIC	GV 645 EURO	GV 650 HIFI	GV 660 HIFI	GV 660 NIC	GV 665 EURO	GV 670 S NIC	GV 670S HIFI	GV 690 S HIFI	GV 690 S NIC	
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S-VHS Adapter Card	75988 039 5500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S-VHS Adapter Cable	75988 039 5400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Designation	Part No.	GV 6000 EURO	GV 6000 SV	GV 6000 SV/1	GV 6001 V+	GV 6066	GV 6096 SV	GV 6096 SV/1	GV 6300 EURO	GV 6300 SV	GV 6300 SV/1	GV 6396 VPT	GV 6400 EURO	GV 6400 HIFI	GV 6400 HIFI/5	GV 6400 NIC	GV 6401 NIC	GV 6596 HIFI	GV 6596 NIC	
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.	GVP 600 ICN EURO	GV 26	GV 26 EURO	GV 26 VPS	GV 46	GV 46 VPS	SE 6102 SV	SE 6104 VPT	SE 6106 HIFI
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988 002 3700	●	●	●	●	●	●	●	●	●

* see also Service Manual page 1-2

Jigs and Tools for Video Recorders (Part 5)

Designation	Part No.	GV709 M*	GV729 M*	GV740 HFI	GV740 NIC	GV7000 EURO	GV7000 SV	GV7000 SV-C	GV7003	GV7300 EURO	GV7300 SV	GV7300 SV/5	GV7400 EURO	GV7400 HFI	GV7400 HFI/5	GV7400 NIC	GV7400 NIC2	GV7497 NIC
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Headwheel Extractor	75988 002 3700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Designation	Part No.	GV819 M*	GV8000 EURO	GV8000 GB	GV8000 SV/1	GV8000 SV/2	GV8000 SV/5	GV8050 SV	GV8300 EURO	GV8300 SV	GV8300 SV/5	GV8400 EURO	GV8400 GB	GV8400 HFI	GV8400 HFI/5	GV8400 NIC 1	GV8400 NIC 2	GV8450 HFI
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Headwheel Extractor	75988 002 3700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Designation	Part No.	GV27	GV27 EURO	GV27 VPS/5	GV47	GV47 VPS/5	KV 7001 VPS/5	KV 7301 VPS/5	KV 8001 VPS/5	KV 8301 VPS/5	KV 8401 HFI/5	SE 7100 SV	SE 7104 SV	SE 7105 HFI	SE 7106 HFI	SE 8100 SV	SE 8105 HFI
Test Cassette	92754 010 1100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	92754 010 1600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987 262 7300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tape Tension Adjustm't Handle+Pin	75988 002 2700	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987 262 7200	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987 262 8000	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Headwheel Extractor	75988 002 3700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* see also Service Manual page 1-2

Partners help each other

Please help us find hidden faults and return all modules with a brief description of the fault.

For this purpose, a green fault tag or white adhesive label is enclosed with all modules (insert cards) delivered by the GRUNDIG service organisation.

FÜR IHR RÜCKABETEIL
FOR RETURNING FAULTY
MODULES
ALLEGARE AL PEZZO CHE
VIENE RIMANDATO INDIETRO
POUR RETOURNER AVEC LE
MODULE DEFECTUEUX
PARA DEVOLUCIÓN DE
MÓDULOS AVERIADOS

Fehleranhänger für Module / Label tag for modules Cartellino dei difetti per i moduli / Fiche suiveuse pour module Etiqueta de avería para módulos

- Fehler tritt sofort auf / Fault occurs immediately / Il difetto compare subito
Le défaut apparaît immédiatement / La avería aparece inmediatamente
- Fehler tritt nur zeitweise auf / Fault occurs intermittently / Il difetto compare solo a periodi / Le défaut est intermittent / La avería aparece intermitentemente
- Fehler tritt nach ca. Minuten auf
Fault occurs after approx minutes
Il difetto compare dopo ca. minuti
Le défaut apparaît après environ minutes de fonctionnement
La avería aparece tras minutos
- Wackelkontakt / intermittent contact / Contatto difettoso
Mauvais contact intermittent / contacto intermitente
- Sonstige Fehlererscheinungen: / Other faults: / Altri difetti:
Autres défauts: / Otras averías: _____
- _____
- _____

Bitte unterstützen Sie uns beim Auffinden versteckter Fehler: Versehen Sie alle Modul-Rückläufer mit vollständig ausgefüllten Fehleranhängern!
Please help us to trace obscure faults: Ensure all modules are returned with label tag completed!

Collaborate con noi nella ricerca deidifetti:

corredate ogni modulo che rimandate indietro dei cartellino dei difetti compilato in tutti i suoi punti!

Afin de nous permettre d'améliorer la Qualité de notre service, nous vous prions de nous renvoyer avec votre module, cette étiquette dûment renseignée. Merci pour votre collaboration.

Ayúdenos a encontrar las averías ocultas: procuren que cada módulo devuelto vaya con su etiqueta de avería para módulos debidamente relienda!

Sach-Nr.: 09624-645.03

Thank you very much for your kind assistance.

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Modulator and Power Supply Units of Camcorders (Part 1)

Camcorder	Modulator	Part Number	Power Supply Unit	Part Number
VS-C 20	--	--	NA 50	75987 430 0400
VS-C 30	--	--	NA 50	75987 430 0400
VS-C 35	M 45	75987 482 8200	NA 75 A	75987 579 7000
VS-C 40	M 60	sold out	NA 60	75987 457 0300
VS-C 45	M 45	75987 482 8200	NA 80	75987 513 0900
VS-C 46	M 45	75987 482 8200	NA 75	75987 550 6000
VS-C 50	M 50	75987 430 0500	NA 50	75987 430 0400
VS-C 55	M 45	75987 482 8200	NA 75	75987 550 6000
VS-C 60	M 60	sold out	NA 60	75987 457 0300
VS-C 70	M 60	sold out	NA 80	75987 513 0900
S-VS-C 75	M 45	75987 482 8200	NA 75	75987 550 6000
S-VS-C 80	M 60	sold out	NA 80	75987 513 0900
S-VS-C 85	M 45	75987 482 8200	NA 80	75987 513 0900
VS 120	in Tuner/Timer	--	NA 120	75987 331 9100
VS 150	M 150	sold out	NA 150	75987 356 3800
VS 160	in Power Supply	--	NA 160	75987 249 7200
VS 170	in Power Supply	--	NA 170	75907 710 5100
S-VS 180	in Power Supply	--	NA 170	75907 710 5100
VS 4-8	in VS 4-8	--	NA 8	75987 527 8800
VS 8000	M 8	75987 527 8900	NA 8	75987 527 8800
VS 8100	M 81	75987 553 1100	NA 8-1	75987 553 1000
VS 8150	M 81	75987 553 1100	NA 8-1 A	75987 580 4000
VS 8250	M 81	75987 553 1100	NA 8-2	75987 580 1400
VS 8300	M 8	75987 527 8900	NA 8	75987 527 8800
VS 8320	M 81	75987 553 1100	NA 8	75987 527 8800
VS 8500	M 81	75987 553 1100	NA 8	75987 527 8800
VS 8800	M 81	75987 553 1100	NA 8-1	75987 553 1000
LC 125C	M 45	75987 482 8200	NA 75	75987 550 6000
LC 145E	M 81	75987 553 1100	NA 8	75987 527 8800
LC 175HE	M 81	75987 553 1100	NA 8-1 A	75987 580 4000
LC 180HE	M 81	75987 553 1100	NA 8	75987 527 8800
LC 210C	M 45	75987 482 8200	NA 75 B	75981 277 9800
LC 215C	M 45	75987 482 8200	NA 75 B	75981 277 9800
LC 225C	M 45	75987 482 8200	NA 75 B	75981 277 9800
LC 230E	M 81	75987 553 1100	NA 8-2	75987 580 1400
LC 232E	M 81	75987 553 1100	NA 8-1	75987 553 1000
LC 235E	M 81	75987 553 1100	NA 8-1	75987 553 1000
LC 240E	M 81	75987 553 1100	NA 8-3	75981 281 5100
LC 255SC	M 45	75987 482 8200	NA 75 A	75987 579 7000
LC 280HE	M 81	75987 553 1100	NA 8-4	75981 293 4000
LC 285HE	M 81	75987 553 1100	NA 8	75987 527 8800
LC 290N	M 45	75987 482 8200	NA 190 A	75981 281 3000
LC 295SN	M 45	75987 482 8200	NA 190 A	75981 281 3000
LC 310C	M 45	75987 482 8200	NA 85	75981 295 9600
LC 320C	M 45	75987 482 8200	NA 90	75981 304 2700
LC 330E	M 81	75987 553 1100	NA 8-3	75981 281 5100
LC 335E	M 81	75987 553 1100	NA 8-3	75981 281 5100
LC 345E	M 81	75987 553 1100	NA 8-3	75981 281 5100
LC 355SC	M 45	75987 482 8200	NA 90	75981 304 2700
LC 360SC	M 45	75987 482 8200	NA 85	75981 295 9600
LC 375HE	M 81	75987 553 1100	NA 8-1	75987 553 1000
LC 380HE	M 81	75987 553 1100	NA 8-4	75981 293 4000

Modulator and Power Supply Units of Camcorders (Part 2)

Camcorder	Modulator	Part Number	Power Supply Unit	Part Number
LC 400C	M 45	75987 482 8200	NA 95	75981 320 2700
LC 410C	M 45	75987 482 8200	NA 95	75981 320 2700
LC 435E	M 81	75987 553 1100	NA 8-3 *	75981 281 5100
LC 445E	M 81	75987 553 1100	NA 8-3 *	75981 281 5100
LC 450SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 460SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 475HE	M 81	75987 553 1100	NA 8-3 *	75981 281 5100
LC 485HE	M 81	75987 553 1100	NA 8-1	75987 553 1000
LC 500C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 535E	M 81	75987 553 1100	NA-L 1	75981 335 1200
LC 550SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 560SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 575E	M 81	75987 553 1100	NA-L 1	75981 335 1200
LC 600C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 610C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 635E	M 81	75987 553 1100	NA 8-5	75981 345 0600
LC 645E	M 81	75987 553 1100	NA 8-5	75981 345 0600
LC 650SC	--	--	NA 96	75981 332 6400
LC 675HE	M 81	75987 553 1100	NA 8-6	75981 353 4800
LC 685HE	M 81	75987 553 1100	NA 8-6	75981 353 4800
LC 695SN	M 45	75987 482 8200	NA 190B	75981 348 9000
LC 700C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 735E	M 81	75987 553 1100	NA 8-7	75981 355 0400
LC 750SC	--	--	NA 96	75981 332 6400
LC 760SC	--	--	NA 96	75981 332 6400
LC 775HE	M 81	75987 553 1100	NA 8-72	75981 354 6400
LC 785HE	M 81	75987 553 1100	NA 8-71	75981 354 0200
LC 800C	--	--	NA 97	75981 361 7600
LC 835E	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 875HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 885HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC-D 80E	M 81	75987 553 1100	NA-L 1	75981 335 1200
LC-D 100E	M 81	75987 553 1100	NA-L 2	75981 338 0700
LC-D 200HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
DLC 1	--	--	NA-D 1	75981 358 0000
DLC 10	**	**	**	**

* is optionally replaced by NA-L 1

** data not yet available on editorial close

Accumulators for Camcorders (Part 1)

Camcorder	Stand.Acc.**	Data	Part Number	Optional 2nd Accumulator
VS-C 20	BP 20	9.6V/450mAh	75987 447 0800	BP 21, BP 60, BP 80
VS-C 30	BP 20	9.6V/450mAh	75987 447 0800	BP 21, BP 60, BP 80
VS-C 35	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
VS-C 40	BP 60	9.6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
VS-C 45	BP 60	9.6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
VS-C 46	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
VS-C 50	BP 51	9.6V/1100mAh	75987 430 0700	BP 21, BP 51, BP 52, BP 60, BP 80
VS-C 55	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
VS-C 60	BP 60	9.6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
VS-C 70	BP 60	9.6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
S-VS-C 75	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
S-VS-C 80	BP 80	9.6V/1400mAh	75987 513 0700	BP 21, BP 60, BP 80
S-VS-C 85	BP 80	9.6V/1400mAh	75987 513 0700	BP 21, BP 60, BP 80
VS 120	BP 121	12V/1000mAh	replacement BP 122	BP 121, BP 122, BP 123
VS 150	BP 151	12V/800mAh	75987 356 6000	BP 151, BP 152
VS 160	BP 122	12V/2000mAh	75987 331 9200	BP 121, BP 122, BP 123
VS 170	BP 122	12V/2000mAh	75987 331 9200	BP 121, BP 122, BP 123
S-VS 180	BP 122	12V/2000mAh	75987 331 9200	BP 121, BP 122, BP 123
VS 4-8	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8000	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8100	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8150	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8250	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8300	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8320	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8500	BP 8-2	6V/2000mAh	75987 525 8300	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8800	BP 8-5	6V/1800mAh	replacement BP 8-3	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 125C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 145E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 175HE	BP 8-5	6V/1800mAh	replacement BP 8-3	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 180HE	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 210C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 215C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 225C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 230E	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 232E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 235E	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 240E	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 255SC	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 280HE	BPL 8-7	7.2V/1000mAh	75981 291 7800	BPL 8-4, BPL 8-7
LC 285HE	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 290N	BP 124	12V/2000mAh	75913 210 0000	BP 124
LC 295SN	BP 124	12V/2000mAh	75913 210 0000	BP 124
LC 310C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 320C	BP 75	4.8V/1300mAh	75981 304 2600	BP 74, BP 75, BP 85
LC 330E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 335E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 345E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 355SC	BP 75	4.8V/1300mAh	75981 304 2600	BP 74, BP 75, BP 85
LC 360SC	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70 *
LC 375HE	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 380HE	BPL 8-7	7.2V/1000mAh	75981 291 7800	BPL 8-4, BPL 8-7

Extra accessory: BP 8-3	6V/2400mAh	75909 310 0000
Extra accessory: BP 52	9.6V/1400mAh	75987 430 1200
Extra accessory: BP 70	6V/2400mAh	75909 610 0000
Extra accessory: BP 85	4.8V/2600mAh	75913 510 0000
Extra accessory: BP 123	12V/2300mAh	75909 710 0000
Extra accessory: BPL 8-4	7.2V/1200mAh	75981 291 7800

* When using the BP 70 accumulator the battery compartment of LC 360SC cannot be closed completely.

** Standard Accessory

Accumulators for Camcorders (Part 2)

Camcorder	Stand. Acc.*	Data	Part Number	Optional 2nd Accumulator
LC 400C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 410C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 435E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 445E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 450SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 460SC	BP 75	4,8V/1300mAh	75981 304 2600	BP 74, BP 75, BP 85, BP 971
LC 475HE	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 485HE	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 500C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 535E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 550SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 560SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 575E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 600C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 610C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 635E	BP 8-8	6V/800mAh	75981 352 5000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 645E	BP 8-8	6V/800mAh	75981 352 5000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 650SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 675HE	BPL 8-8	7,2V/1350mAh	75981 353 4900	BPL 8-8
LC 685HE	BPL 8-8	7,2V/1350mAh	75981 353 4900	BPL 8-8
LC 695SN	BP 124	12V/2000mAh	75913 210 0000	BP 124
LC 700C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 735E	BP 8-8	6V/800mAh	75981 352 5000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 750SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 760SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85, BP 971
LC 775HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-10, BPL 8-8
LC 785HE	BPL 8-8	7,2V/1350mAh	75981 353 4900	BPL 8-8, BPL 8-10
LC 800C	BP 971	4,8V/??mAh	75981 358 0300	BP 74, BP 75, BP 85, BP 971
LC 835E	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-10, BPL 8-8
LC 875HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-10, BPL 8-8
LC 885HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-10, BPL 8-8
LC-D 80E	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC-D 100E	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC-D 200HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-10, BPL 8-8
DLC 1	BPL 97	7,2V/1255mAh	75981 358 0100	BPL 97
DLC 10	**	**	**	**

Extra accessory: BP 8-3	6V/2400mAh	75909 310 0000
Extra accessory: BP 52	9,6V/1400mAh	75987 430 1200
Extra accessory: BP 70	6V/2400mAh	75909 610 0000
Extra accessory: BP 85	4,8V/2600mAh	75913 510 0000
Extra accessory: BP 123	12V/2300mAh	75909 710 0000
Extra accessory: BPL 8-4	7,2V/1200mAh	75981 291 7800

* Standard Accessory

** Data not yet available on editorial close

Back-up Batteries and Remote Control Transmitters for Camcorders (Part 1)

Camcorder	Back-up Battery	RC Transmitter	Part No.	Transmitter Battery
VS-C 20	-	-	-	-
VS-C 30	-	-	-	-
VS-C 35	CR 2032	-	-	-
VS-C 40	LR 1130	-	-	-
VS-C 45	LR 1130	-	-	-
VS-C 46	CR 2032	-	-	-
VS-C 50	-	-	-	-
VS-C 55	CR2032	-	-	-
VS-C 60	LR 1130	-	-	-
VS-C 70	LR 1130	-	-	-
S-VS-C 75	CR 2032	-	-	-
S-VS-C 80	LR 1130	-	-	-
S-VS-C 85	CR 2032	-	-	-
VS 150	-	-	-	-
VS 160	3 x Micro (AAA)	-	-	-
VS 170	LR 1130	-	-	-
S-VS 180	LR 1130	-	-	-
VS 8000	CR 2025	-	-	-
VS 8100	CR 2025	-	-	-
VS 8150	CR 2025	RC 8-2	75987 580 0200	2 x Mignon
VS 8250	CR 2025	RC 8-2	75987 580 0200	2 x Mignon
VS 8300	CR 2025	-	-	-
VS 8320	CR 2025	-	-	-
VS 8500	CR 2025	-	-	-
VS 8800	CR 2025	RC 8-1	75987 559 0200	2 x Mignon
LC 125C	CR 2032	-	-	-
LC 145E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 175HE	CR 2025	RC 8-3	75987 585 0700	2 x Mignon
LC 180HE	CR 2025	RC 8-5	75981 271 1900	2 x Mignon
LC 210C	CR 2032	-	-	-
LC 215C	CR 2032	-	-	-
LC 225C	CR 2032	-	-	-
LC 230E	CR 2025	RC 8-6	75987 585 0700	CR 2025
LC 232E	CR 2025	-	-	-
LC 235E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 240E	CR 2025	RC 8-7	75981 282 1500	2 x Mignon
LC 255SC	CR 2032	-	-	-
LC 280HE	CR 2025	RC 8-9	75981 291 6600	CR 2025
LC 285HE	CR 2025	RC 8-8	75981 284 1000	CR 2025
LC 290N	Lithium Battery *	-	-	-
LC 295SN	Lithium Battery *	-	-	-
LC 310C	CR 2032	-	-	-
LC 320C	CR 2032	-	-	-
LC 330E	CR 2025	-	-	-
LC 335E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 345E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 355SC	CR 2032	-	-	-
LC 360SC	Lithium Battery *	-	-	-
LC 375HE	CR 2025	RC 8-7	75981 282 1500	2 x Mignon
LC 380HE	CR 2025	RC 8-9	75981 291 6600	CR 2025

* Soldered into the camcorder (part no. 75981 299 9400)

Back-up Batteries and Remote Control Transmitters for Camcorders (Part 2)

Camcorder	Back-up Battery	RC Transmitter	Part No.	Transmitter Battery
LC 400C	Lithium Battery *	-	-	-
LC 410C	Lithium Battery *	-	-	-
LC 435E	CR 2025	-	-	-
LC 445E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 450SC	Lithium Battery *	-	-	-
LC 460SC	Lithium Battery *	-	-	-
LC 475HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 485HE	CR 2025	RC 8-10	75981 322 0700	2 x Mignon
LC 500C	Lithium Battery *	-	-	-
LC 535E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 550SC	VL 2020 *	RC 500	75981 342 3800	CR 2025
LC 560SC	VL 2330 *	RC 500	75981 342 3800	CR 2025
LC 575E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 600C	VL 2330/1HF *	-	-	-
LC 610C	VL 2020/1HF *	RC 500	75981 342 3800	CR 2025
LC 635E	CR 2025	-	-	-
LC 645E	CR 2025	RC 6E	75981 346 0400	2 x Mignon
LC 650SC	VL 2330/1HF *	RC 500	75981 342 3800	CR 2025
LC 675HE	CR 2025	-	-	-
LC 685HE	CR 2025	RC 6HE	75981 351 0500	2 x Mignon
LC 695SN	VL 2020 *	-	-	-
LC 700C	VL 2330/1HF *	-	-	-
LC 735E	CR 2025	RC 6E	75981 346 0400	2 x Mignon
LC 750SC	VL 2020/1HF *	RC 500	75981 342 3800	CR 2025
LC 760SC	VL 2020/1HF *	RC 500	75981 342 3800	CR 2025
LC 775HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 785HE	CR 2025	RC 6HE	75981 351 0500	2 x Mignon
LC 800C	ML 2020 *	-	-	-
LC 835E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 875HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 885HE	CR 2025	RC 6HE	75981 351 0500	2 x Mignon
LC-D 80E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC-D 100E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC-D 200HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
DLC 1	VL 2020/1HF *	RC 700	-	CR 2025
DLC 10	**	**	**	**

* Soldered into the camcorder

** Data not yet available on editorial close

Sockets and Filter Threads of Camcorders (Part 1)

Camcorder	Socket	Signal	S-Video	Video	Video	Video	Audio (Mono)	Audio (Stereo)	Audio (Mono)	Audio (Stereo)	RC (REC)	RC (REC/PB)	Edit-Bus	New-Edit-Bus	Control-L-Bus	Microphone (Mono)	Microphone (Stereo)	Earphones	VITC	CHG	Filter Thread
VS-C 20																					-
VS-C 30																					49 mm
VS-C 35																					43 mm
VS-C 40																					49 mm
VS-C 45																					49 mm
VS-C 46																					43 mm
VS-C 50																					49 mm
VS-C 55																					27 mm
VS-C 60																					49 mm
VS-C 70																					49 mm
S-VS-C 75																					43 mm
S-VS-C 80																					49 mm
S-VS-C 85																					49 mm
VS 120																					-
VS 150																					46 mm
VS 160																					49 mm
VS 170																					49 mm
S-VS 180																					55 mm
VS 4-8																					-
VS 8000																					46 mm
VS 8100																					46 mm
VS 8150																					46 mm
VS 8250																					46 mm
VS 8300																					46 mm
VS 8320																					46 mm
VS 8500																					37/46 mm
VS 8800																					52 mm
LC 125C																					46 mm
LC 125C																					46 mm
LC 145E																					37 mm
LC 175HE																					37 mm
LC 180HE																					46 mm
LC 210C																					37 mm
LC 215C																					49 mm
LC 225C																					49 mm
LC 230E																					37 mm
LC 232E																					46 mm
LC 235E																					37 mm
LC 240E																					37 mm
LC 255SC																					37 mm
LC 280HE																					37 mm
LC 285HE																					37 mm
LC 290N																					52 mm
LC 295SN																					49 mm
LC 310C																					49 mm
LC 320C																					49 mm
LC 330E																					37 mm
LC 335E																					37 mm
LC 345E																					-
LC 355SC																					37 mm
LC 360SC																					37 mm
LC 375HE																					2) 37 mm
LC 380HE																					49 mm
LC 380HE																					37 mm

1) Built-in loudspeaker

2) Built-in VITC Generator

Sockets and Filter Threads of Camcorders (Part 2)

Camcorder	Socket											Filter Thread										
	IEEE 1394	Hosiden	BNC	1 x Cinch	8-pin Movie	4-pin Jack	8-pin Movie	8-pin Movie	4-pin Jack	1 x Cinch	2 x Cinch		2.5mm Jack	2.5mm Jack	5-pin Edit	11-pin New-Edit	2.5mm Jack	3.5mm Jack	3.5mm Jack	3.5mm Jack	10-pin Socket	10-pin Socket
	Signal	Digital-Video	S-Video	Video	Video	Video	Audio (Mono)	Audio (Stereo)	Audio (Stereo)	Audio (Mono)	Audio (Stereo)	RC (REC)	RC (REC/PB)	Edit-Bus	New-Edit-Bus	Control-L-Bus	Microphone (Mono)	Microphone (Stereo)	Earphones	VITC	CHG	
LC 400C																						37 mm
LC 410C																						37 mm
LC 435E																						37 mm
LC 445E																						37 mm
LC 450SC																						37 mm
LC 460SC																						37 mm
LC 475HE																						37 mm
LC 485HE																						37 mm
LC 500C																						37 mm
LC 535E																						37 mm
LC 550SC																						43 mm
LC 560SC																						43 mm
LC 575E																						37 mm
LC 600C																						43 mm
LC 610C																						43 mm
LC 635E																						37 mm
LC 645E																						37 mm
LC 650SC																						43 mm
LC 675HE																						37 mm
LC 685HE																						52 mm
LC 695SN																						49 mm
LC 700C																						43 mm
LC 735E																						37 mm
LC 750SC																						43 mm
LC 760SC																						43 mm
LC 775HE																						37 mm
LC 785HE																						52 mm
LC 800C																						43 mm
LC 835E																						37 mm
LC 875HE																						37 mm
LC 885HE																						52 mm
LC-D 80E																						52 mm
LC-D 100E																						37 mm
LC-D 200HE																						37 mm
DLC 1																						30,5 mm
DLC 10																						*

1) Built-in loudspeaker

2) Built-in VITC Generator

3) At connecting box JB1 (included in the delivery)

* Data not yet available on editorial close

Camcorder Service Manuals (Part 1)

Camcorder	Part Number	Kind of Manual
LC 125C	72010 510 8000	Service Manual
LC 145E	72010 510 8500	Service Manual
	72010 508 6500	FL Mechanics
LC 175HE	72010 510 5500	Service Manual
	72010 507 9500	U Mechanics
LC 180HE	72010 511 1000	Service Manual
	72010 508 6500	FL Mechanics
LC 210C	72010 511 5000	Service Manual
LC 215C	72010 511 5500	Service Manual
LC 225C	72010 512 2500	Service Manual
	72010 510 4500	Service Manual
	72010 511 1500	Supplement
LC 230E	72010 507 9500	U Mechanics
	72010 511 9000	Service Manual
LC 232E	72010 512 1600	A Mechanics
	72010 513 2500	Service Manual
LC 235E	72010 513 2600	Supplement 1
	72010 512 1600	A Mechanics
LC 240E	72010 512 1500	Service Manual
	72010 512 1600	A Mechanics
LC 255SC	72010 511 6000	Service Manual
LC 280HE	72010 512 2000	Service Manual
	72010 508 6500	FL Mechanics
LC 285HE	72010 512 6000	Service Manual
	72010 508 6500	FL Mechanics
LC 290N	72010 512 3500	Service Manual
LC 295SN	72010 512 7000	Service Manual
LC 310C	72010 513 2000	Service Manual
LC 320C	72010 514 5500	Service Manual
LC 330E	72010 511 9000	Service Manual
	72010 514 3000	Supplement
	72010 512 1600	A Mechanics
LC 335E	72010 513 2500	Service Manual
	72010 514 7000	Supplement
	72010 512 1600	A Mechanics
LC 345E	72010 513 1000	Service Manual
	72010 512 1600	A Mechanics
LC 355SC	72010 514 7500	Service Manual
LC 360SC	72010 513 1500	Service Manual
LC 375HE	72010 513 0500	Service Manual
	72010 512 1600	A Mechanics
LC 380HE	72010 512 2000	Service Manual
	72010 513 0000	Supplement
	72010 512 1600	A Mechanics
LC 400C	72010 515 9000	Service Manual
LC 410C	72010 515 9000	Service Manual
LC 435E	72010 516 4500	Service Manual
	72010 512 1600	A Mechanics
LC 445E	72010 516 5500	Service Manual
	72010 512 1600	A Mechanics
LC 450SC	72010 516 9500	Service Manual
LC 460SC	72010 517 0000	Service Manual
LC 475HE	72010 516 5500	Service Manual
	72010 512 1600	A Mechanics
LC 485HE	72010 515 9500	Service Manual
	72010 512 1600	A Mechanics
LC 500C	72010 518 7500	Service Manual
	72010 519 6000	DL Mechanics

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Camcorder Service Manuals (Part 2)

Camcorder	Part Number	Kind of Manual
LC 535E	72010 518 7000 72010 512 1600	Service Manual A Mechanics
LC 550SC	72010 519 7000	Service Manual DL Mechanics
LC 560SC	72010 519 6500 72010 519 6000	Service Manual DL Mechanics
LC 575HE	72010 518 6500 72010 512 1600	Service Manual A Mechanics
LC 600C	72010 524 2500 72010 519 6000	Service Manual DL Mechanics
LC 610C	72010 524 4500 72010 519 6000	Service Manual DL Mechanics
LC 635E	72010 524 3000 72010 525 0500	Service Manual B Mechanics
LC 645E	72010 524 3500 72010 525 0500	Service Manual B Mechanics
LC 650SC	72010 525 4500 72010 519 6000	Service Manual DL Mechanics
LC 675HE	72010 525 5000 72010 525 0500	Service Manual B Mechanics
LC 685HE	72010 525 5500 72010 525 0500	Service Manual B Mechanics
LC 695SN	72010 524 4000	Service Manual
LC 700 C	72010 529 5000 72010 519 6000	Service Manual DL Mechanics
LC 735 E	72010 529 4500 72010 525 0500	Service Manual B Mechanics
LC 750 SC	72010 530 9000	Service Manual
LC 760 SC	72010 530 9500	Service Manual
LC 775 HE	72010 529 4000 72010 525 0500	Service Manual B Mechanics
LC 785 HE	72010 525 0500 72010 529 3500 72010 525 0500	Service Manual Supplement B Mechanics
LC 800C	72010 532 1500	Service Manual
LC 835E	72010 532 1000 72010 525 0500	Service Manual B Mechanics
LC 875HE	72010 532 1000 72010 525 0500	Service Manual B Mechanics
LC 885HE	72010 532 0000 72010 525 0500	Service Manual B Mechanics
LC-D 100E	72010 518 6000 72010 512 1600	Service Manual A Mechanics
LC-D 200HE	72010 531 9000 72010 525 0500	Service Manual B Mechanics
LC-D 80E	72010 517 1500 72010 512 1600	Service Manual A Mechanics
DLC 1	72010 531 4500	Service Manual
DLC 10	*	Service Manual

* Data not yet available on editorial close

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manuals for Camcorder Accessories

Camcorder	Part Number	Kind of Manual
LCS 8-4	72010 514 4500	Service Manual
NA 8	72010 507 6500	Service Manual
NA 8-1	72010 507 6600	Service Manual
NA 8-2	72010 510 2500	Service Manual
NA 8-3	72010 512 6500	Service Manual
NA 8-4	72010 512 9500	Service Manual
NA 75	72010 509 3000	Service Manual
NA 75A	72010 510 1000	Service Manual
NA 75B	72010 511 5500	Service Manual
NA 85	72010 514 0000	Service Manual
NA 90	72010 514 6000	Service Manual
NA 95	72010 516 2500	Service Manual
NA 96	72010 517 5000	Service Manual
NA 96C	72010 519 5500	Service Manual
NA 96D	72010 517 5100	Service Manual
NA 97	72010 531 6500	Service Manual
NA 190A	72010 512 5500	Service Manual
NA 190A	72010 524 9000	Service Manual
NA-L1	72010 517 5500	Service Manual

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Contents: Satellite Reception

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Modul Chart

GRUNDIG Satellite Receivers

Designation	Part No.	STR 100	STR 100 DX	STR 110	STR 511	STR 512	STR 631	STR 632	STR 641	STR 642	STR 400 AP	STR 600	STR 611	STR 622	STR 6122	STC 1650	HRM 810	HRM 811	HRM 851	HRM 852	HRM 858 (a)	HRM 854	HRM 861	HRM 864	HRM 883	HCM 814	HCM 893
		Tuner (terrestrial)	29504 101 2300																		•						
Tuner	29504 101 6300																										
Tuner	29504 201 2400																										2)
Tuner	29504 201 6100										•									•	•	•	•	•	•		
Tuner	29504 201 6200										•																
Tuner	29504 201 7300				•											•											
Tuner	29504 201 7400					•																					
Tuner	29504 201 7700	•																									2)
Tuner	29504 201 8700		•	•																							
Tuner	29504 201 8800											•	•	•													
Tuner	75990 900 3000																										
Tuner	75990 900 3100																										4)
Tuner	75990 900 4200																										4)
Tuner	75954 705 3000																										4)
Tuner	75954 705 3100																										4)
Tuner	75954 705 9900																										
Modulator	29502 017 0500																										
Modulator	29502 017 0600																										
Modulator	29502 017 1200																										
Modulator	29502 017 1300																										
Modulator	29502 017 5100																										1)
Modulator	29502 017 5200																										1)
Modulator	29502 017 5300																										
Modulator	29502 017 5500																										
Modulator	29502 017 5800																										
Modulator	29502 017 6000																										
Modulator	29502 017 6200																										2)
Modulator	29502 017 6500																										
Modulator	29502 025 4500												•	•													2)
Modulator	75954 705 9800																										
Modulator	75990 900 3100																										
Modulator	75990 900 4300																										
PLL-Modulator	29502 025 3100				•	•																					
PLL-Modulator UHF	29502 025 3600																										3)
PLL-Modulator VHF	29502 025 3700																										3)

- 1) HRM 858: 017 5100, HRM 858a: 017 5200
 2) 2 for each cassette
 3) VHF or UHF dependent on the modulator fitted
 4) mechanically different versions

Retro-fitting Options for Grundig SAT Receivers

Descrambler Retro-fit Kit DNS 850 C: 15-pin Sub-Min-D socket incl. the necessary electronics retrofittable to the cassettes HRM 851, 852, 853, 854, 855, 857, 858, 858a, 859, 861, 864, 883.

Order No.: GAY 4300 (including an adapter cable)

Adapter cable from 15-pin Sub-Min-D to Euro-AV.

Order No.: GAW 3000

Cassettes for Extension of the STC 8xx Head Station

SAT - TV cassettes

HRM 800

Order No.: GAV 70

(input range 950-1750 MHz)

output: Band III (C5...C12) and (S8*...S20) Mono

* S5/S6/S7 can be used (however the use of S18/S19/S20 is excluded in this case)

output: Band I (C2, 3, 4) Mono

HRM 801

Order No.: GAV 9200

HRM 802

Order No.: GAV 9300

output: UHF (C21 - C40) Mono

HRM 805

Order No.: GAV 9800

output: VHF- OIRT (R6 - R12) Mono

SAT - TV cassettes

HRM 851

Order No.: GAX 9600

(input range 950-2050 MHz)

output: Band I (C2, 3, 4) Mono

HRM 852

Order No.: GAX 9700

output: UHF (C21 - C40) Mono

HRM 858

Order No.: GAX 7300

output: Band III (C5 - C12) and (S8*...S20) Stereo

* S5/S6/S7 can be used (however the use of S18/S19/S20 is excluded in this case)

HRM 858a

Order No.: GAY 4200

output: Band III (C5 - C12) and (S4 - S20) Stereo

(replaces cassette HRM 858)

HRM 854

Order No.: GAY 4100

output: Hyperband (S21 - S41) Stereo

HRM 861

Order No.: GAZ 2300

output: Band I (C2, 3, 4) Stereo

HRM 864

Order No.: GAZ 2200

output: Band IV (C21- C40) Stereo

HRM 866

Order No.: GAD 9700

output: Band IV (C41 - C57) Stereo

SAT-TV-TWIN cassettes - not for STC 800/850

HRM 883

Order No.: GAY 8000

(input range 950-2150 MHz)

output: Band III (C5 - C12) and (S3 - S30) Stereo

HRM 883-2

Order No.: GAC 3000

output: Band III (C5-C12) and (S3-S30) Stereo

(with the possibility of connecting 2 descramblers)

Terrestrial Cassettes

HRM 810	input: C2...C4/C5...C12/C21...C69
Order No.: GAV 9500	output: Band III (C5...C12) and (S8*...S20)
HRM 811	input: C2...C4/C5...C12/C21...C69
Order No.: GAW 1700	output: Band I (C2, 3, 4)
HRM 815	input: R1...R12/R21...R69
Order No.: GAX 1800	output: R6...R12/S8...S20
HCM 814	input: C2...C4/C5...C12/C21...C69
Order No.: GAC 1200	output: Band IV (C21...C40)

Terrestrial Twin Cassettes

HCM 893	input: C2...C4/C5...C12/C21...C69
Order No.: GAD 0800	output: Band III (C5...C12) and (S3...S30)

FM Cassette

HRM 825FM	input: 87...108 MHz
Order No.: GAW 8800	output: 87...108 MHz
HCM 826/4	input: 87.5...108 MHz
Order No.: GAC 9000	output: 87.5...108 MHz (stations are selectively converted)

ADR - FM Cassette

HRM 824/2 ADR	input: 950...2150 MHz
Order No.: GAE 1600	output: 87.5...108 MHz

Digital Converter Cassettes:

HDM 100C	input: 950...2150 MHz
Order No.: GAD 3700	output: S21...S41 (converts a digital package from QPSK to QAM)
HDM 100P	input: 950...2150 MHz
Order No.: GAD 3600	output: C5...C12 and S3...S30 (converts a station from a digital package into an analogue Pal signal)

Accessories for the STC 1600 Head Station

ZAN 1600	Retro-fit kit for connection of a second dish aerial
Order No.: GAY 7700	
FMN 1600	FM amplifier retro-fit kit
Order No.: GAY 7600	

Accessories for the STC 1650 Head Station

HM 1650 VHF	output: C5 - C12 and S4 - S24
Order No.: GAZ 3400	
HM 1652 UHF	output: C21 - C65
Order No.: GAZ 3500	
HR 1650	Pivoted extension unit for additional 8 channel lines
Order No.: GAZ 3300	

GRUNDIG Tele-Pilot® Remote Control Handset / Overview

Satellite Product Range

rc sat



29622 046 1700

TP 720 SAT



29642 059 1800

TP 820 SAT



29642 061 0300

TP 805 SAT



75990 900 0600

TP 716 SAT



23800 001 0100

SAT

Special Functions of Satellite Receivers (Options)

Model	Option	Sequence of Operations
STR 311/312 STR 511/512	Changing the remote control level	Depress and hold the "P/F" button down while switching on with the mains button. The currently active level is indicated. When keeping the "P/F" button pressed the SAT receiver switches over to the second level. The necessary conversion of the "rc sat" remote control is described in the Service Information TV 21/93 and 22/95. With the remote control TP 720 SAT the second level can be activated by pressing the desired function key and the "AUX" button simultaneously.
STR 311 STR 312	Changing the oscillator frequency (9.75/10.0 GHz) Only with certain µP: STR 311 - ZC 88657 STR 312 - ZC 88659	Depress and hold the "V/H" button down while switching on with the mains button. The currently set frequency is indicated. Change the setting with the "<" ">" buttons and store it by pressing the "M" button.
STR 312 STR 322 STR 512	Changing the OSD position	Depress and hold down the "i" button on the remote control while switching on with the mains button. With the < > buttons on the remote control it is possible to set the horizontal position. Confirm the setting with the "OK" button and leave the Service Menu with "i".
STC 800 STC 850 STC 880 STC 2400 CT 800	Display test and indication of the software version	Depress the buttons "+" and "Mode" simultaneously and hold them down. First the display becomes dark (all pixels are driven). After approx. 5 s - as long as these buttons are pressed - a number is displayed. The last two figures of this number indicate the software version.
STR 310 STR 320 STR 325 STR 410 STR 420 STR 501 STR 502	Loading the emergency data set (the oscillator frequency is set to 9.75 GHz and the programme positions with predetermined ASTRA reception frequencies are loaded)	Menu guide: "i", "i", "4 Installation", "5" (not indicated as a menu option), enter the number "2208" for "Code". The emergency data set is loaded.
STR 631 STR 632 STR 641 STR 642	Loading the emergency data set (the oscillator frequency is set to 9.75 GHz and the programme positions with predetermined ASTRA reception frequencies are loaded)	Menu guide: "i", "i", "2 Installation", "5" (not indicated as a menu option), enter the number "2846" for "Code". The emergency data set is loaded.

Service Manuals from 1992 onwards sorted by sets

SAT Receiver	Part No.	Type	Y
HRM 400 SAT / BD 3	72010 011 9000	Service Manual	92
HRM 401 SAT / BD 1	72010 011 9000	Service Manual	92
HRM 405 SAT / BD OIRT	72010 011 9000	Service Manual	92
HRM 420 DSR 118 MHZ	72010 011 9000	Service Manual	92
HRM 806 SAT-PAL/BD 3 NTSC	72010 011 9000 72010 011 9100	Service Manual 1st Supplement	92
HRM 807 SAT / UHF-OIRT	72010 011 9000 72010 011 9100	Service Manual 1st Supplement	92
HRM 815 TERR OIRT/BD3 OIRT	72010 011 9000 72010 011 9100	Service Manual 1st Supplement	92
HRM 825 FM	72010 011 9000 72010 011 9100	Service Manual 1st Supplement	92
HRM 851 SAT/BD 1	72010 015 5000	Service Manual	95
HRM 852 SAT/UHF	72010 015 5000	Service Manual	95
HRM 853 FR SAT/UHF	72010 015 5000	Service Manual	95
HRM 854 SAT/HYPERB.STEREO	72010 015 5000	Service Manual	95
HRM 855 SAT/OIRT	72010 015 5000	Service Manual	95
HRM 857 SAT/UHF-OIRT	72010 015 5000	Service Manual	95
HRM 858 A SAT/BD 3-STER.	72010 015 5000	Service Manual	95
HRM 859 SAT/BD 1-OIRT	72010 015 5000	Service Manual	95
SER 6350	72010 015 0000	Service Manual	94
SER 7300	72010 015 4000	Service Manual	94
SNR 105 microSAT	72010 020 9000 72010 020 9100	Service Manual 1st Supplement	98
STC 400 EV	72010 011 9000	Service Manual	92
STC 43	72010 019 7000	Service Manual	92
STC 45	72010 019 7000	Service Manual	92
STC 80	72010 018 6000 72010 018 6100	Service Manual 1st Supplement	97
STC 850 STC 800/0	72010 015 5000	Service Manual	95
STC 1200	72010 023 3000	Service Manual	98
STC 1600	72010 015 9000	Service Manual	95
STC 1600/0	72010 015 9000	Service Manual	95
STC 1650	72010 018 0000	Service Manual	96
STE 1000	72010 019 0000	Service Manual	96
STR 100 DX	72010 021 0000	Service Manual	97
STR 100 FR MicroSAT	72010 019 2000	Service Manual	96
STR 100 MicroSAT	72010 018 2000	Service Manual	96
STR 110 DX	72010 020 9000	Service Manual	97
STR 211	72010 012 3000	Service Manual	92
STR 310	72010 015 8000	Service Manual	95
STR 310/1	72010 015 8000	Service Manual	95
STR 311	72010 013 9000	Service Manual	93
STR 312	72010 013 9000	Service Manual	93
STR 320	72010 015 8000	Service Manual	95
STR 320/1	72010 015 8000	Service Manual	95
STR 322 TWIN	72010 016 3000	Service Manual	95
STR 322 TWIN FR	72010 017 9000	Service Manual	95
STR 325	72010 015 8000	Service Manual	95
STR 400 AP	72010 014 4000	Service Manual	93
STR 410	72010 015 8000 72010 015 8100	Service Manual 1st Supplement	95
STR 420	72010 015 8000 72010 015 8100	Service Manual 1st Supplement	95
STR 501	72010 018 3000	Service Manual	95

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

SAT Receiver	Part No.	Type	Y
STR 501 FR	72010 018 4000	Service Manual	95
STR 502	72010 018 3000	Service Manual	95
STR 502 FR	72010 018 4000	Service Manual	95
STR 511	72010 016 7000	Service Manual	95
STR 511 FR	72010 018 1000	Service Manual	95
STR 512	72010 016 7000	Service Manual	95
STR 512 FR	72010 018 1000	Service Manual	95
STR 535 N MAC	72010 018 0000	Service Manual	96
STR 600 AP	72010 021 2000	Service Manual	98
STR 600 AP	72010 021 2000	Service Manual	97
STR 600 AP / F / E / P	72010 021 2000 72010 021 2100	Service Manual 1st Supplement	98
STR 611	72010 021 3000 72010 021 3100	Service Manual 1st Supplement	98
STR 6122 TWIN	72010 023 4000	Service Manual	98
STR 622 TWIN	72010 021 3000	Service Manual	97
STR 631	72010 020 3000	Service Manual	97
STR 631	72010 020 3000	Service Manual	96
STR 631 FR	72010 020 4000	Service Manual	97
STR 632	72010 020 3000	Service Manual	97
STR 632	72010 020 3000	Service Manual	96
STR 632 FR	72010 020 4000	Service Manual	97
STR 641 + FR	72010 020 3000 72010 020 3100	Service Manual 1st Supplement	97
STR 642 + FR	72010 020 3000 72010 020 3100	Service Manual 1st Supplement	97

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

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Audio/HiFi	6.11
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GRUNDIG - Tape Run, Tape Speed and Torque Test and Adjustment Cassettes

Attention! Before loading a tape run test or adjustment cassette, clean the heads, pressure roller(s), tape guides, and capstan(s) with spirit. During the tape run test the tape must not bend at the upper or lower edge of the head forks and tape guides.

The adjustment of the tape run is described in the corresponding Service Manual.

Tape Run Cassette 457, with guide lug (part no. 35079 015 0000)

For checking and adjusting the tape run of cassette recorders, especially for front direct loaders.

Tape Run Cassette 459, without guide lug (part no. 35079-008 0000).

For checking and adjusting the tape run of cassette recorders.

Tape Run Cassette 3 / MC-112C, with mirror, without guide lug (part no. 72008 247 0000)

For checking and adjusting the tape run of cassette front loaders.

Torque Test Cassette 456, (part no. 35079 014 0000).

For measuring the torque of the take-up clutch and of the basic braking torque of the supply clutch.

FeCr - Test Tape Cassette 454, acc. to IEC 3 Standard (part no. 35079 016 0000)

This tape is used for self-produced recordings to adjust the recording channel in terms of equalization and operating point.

Fe - Test Tape Cassette 449, acc. to IEC 1 Standard (part no. 35079 019 0000)

Side A - For checking and adjusting the reference or Dolby -0- level, the tape speed, as well as the head gap position and the playback frequency response.

Side B - For self-produced recordings for measuring by tape. The magnetic tape flux of reference level is 250 pWb/mm. Time constant : 3180 μ s and 120 μ s .

Fe - Test Tape Cassette 449

The level is 20 dB lower than the reference level ($U_a=1/10 U_B$)													Ref. level	Level is 10 dB lower than the ref. level									
16 kHz	Announcement	14 kHz	Announcement	12,5 kHz	Announcement	10 kHz	Announcement	4 kHz	Announcement	250 Hz	Announcement	125 Hz	Announcement	8 kHz	Announcement	315 Hz	Announcement	250 pWb/mm	Announcement	50 Hz	Announcement	3150 Hz	Announcement
10"	5"	10"	5"	10"	5"	10"	5"	10"	5"	10"	5"	10"	5"	60"	5"	30"	5"	50"	5"	50"	5"	5"	

Direction of tape run, $V = 4.76 \text{ cm/s}$

Cr - Test Tape Cassette 448 A, (part no. 35079 023 0000) acc. to IEC II, NEW Norm, Charge U 564W

According to IEC 2 Standard NEW, **Side A** - For checking and adjusting the reference or Dolby -0- level, the magnetization corresponds to DIN 45513 Bl. 7 (250 pWb/mm). The 315Hz-level can be used to adjust the Dolby level, 200 pWb/mm. The cassette is also used for checking and adjusting the tape speed (3150Hz und 50Hz) and the head gap position (10kHz). The frequencies 40/250 Hz and 6.3/10/12.5/14/16 and 18kHz are used for checking and adjusting the playback frequency response.

Side B - For self-produced recordings for measuring by tape. Time constant : 3180 μs and 70 μs .

Test Tape Cassette 448 A

The level is 20 dB lower than the reference level ($U_a=1/10 U_B$)													Ref. level	Level is 10 dB lower than the ref. level									
18 kHz	Announcement	16 kHz	Announcement	14 kHz	Announcement	12,5 kHz	Announcement	6.3 kHz	Announcement	250 Hz	Announcement	40 Hz	Announcement	10 kHz	Announcement	315 Hz	Announcement	250 pWb/mm	Announcement	50 Hz	Announcement	3150 Hz	Announcement
10"	5"	10"	5"	10"	5"	10"	5"	10"	5"	10"	5"	10"	5"	60"	5"	30"	5"	50"	5"	50"	5"	5"	

Direction of tape run, $V = 4.76 \text{ cm/s}$

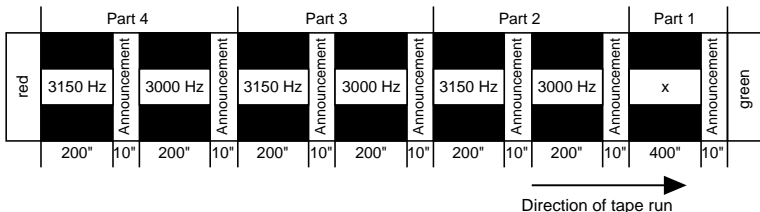
GRUNDIG - Tape Speed Adjustment Cassette 467, (part-no. 05679 045 0000)

For adjusting all tape speeds of tape recorders.

$V = 19.05 \text{ cm/s}$

$V = 4.75 \text{ cm/s}$

$V = 9.53 \text{ cm/s}$



Part 1 is used to check and adjust the tape speed by comparing it with the 50Hz mains frequency (Lissajous figure displayed on the oscilloscope). A circle is shown at a tape speed of 4.75cm/s, a horizontal eight at 9.5cm/s, and a four-pointed crown at 19cm/s.

The other parts on the test tape are used to check and adjust the tape speed with corresponding measuring instruments (wow and flutter meter according to DIN 45507, GRUNDIG GA 1000).

GRUNDIG Head and Tape Run Gauges for Cassette Recorders

Head Gauge 034 (part no. 34000 034 0000)

For setting the height and insertion depth of the AW-head for cassette recorders up to 1979/80 models which correspond to the HiFi-standard with the exception of the models CN 700, CN 710, 720 and CN 730.

Head Gauge 180 (part no. 34074 180 0000)

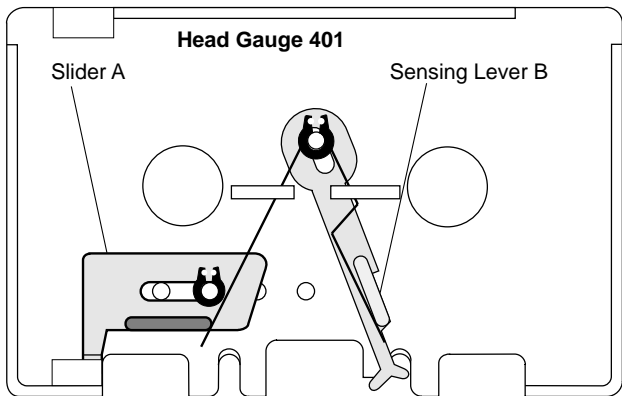
For setting the height and insertion depth of the AW-head of the HiFi models CF 5500/5500-2, MCF 500 and MCF 600.

Head Gauge 220, (part no. 34065 220 0000)

For setting the height and insertion depth of the AW-head of the HiFi models CF 5000/5000-2, CF 5100, SCF 6000/6100 and SCF 6200, CF 4200, CCF 4300/MKII, CF 7100, CF 7200, CF 7300, CF 7000/7400, CF 7150/7250 and CF 7500.

Head Gauge 401, (part no. 72008 401 0000)

For setting and checking the height and insertion depth of the AW or AW-L head (rotating head), the dummy head and the external tape guides of HiFi recorders.



GRUNDIG Tele-Pilot® Remote Control Handsets/Survey of Types

Audio Product Range



M30/M40-RC
59802 613 0100



CDC 477 RC
75954 027 1700



M2/M6 RC
75954 028 6800



RC M5
75952 022 1000



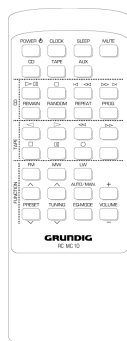
RC CDM 700
75954 062 9300



RC 10
75950 504 8700



RC 20
75951 045 7700



RC MC 10
75952 049 3000

Audio/HIFI



RCM-System
75954 003 1000



CDM 3000/5000 RC
75954 029 9500



RC 670
75951 030 5000



RC 680
75953 800 1500



M19-C/M29-C
75955 002 9100



RR660CD
75955 005 0100



RR760CD
75955 005 5000



R 220 RC
75954 010 5000

Audio/Hi-Fi



RC M 717/27 C
RC M18/28/38 C
RH 8809/00
75954 049 3600



RC M 37 DC
RC M48 DC
RC 8623
75954 050 4100



UMS1/2
75954 029 6400



UMS11/12
75954 505 0100



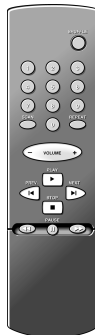
RC KM 11
75954 042 8000



RC KM12/13
75954 062 5700



RC CD22
75954 069 1100



RC CD 23
75954 069 1800

Audio/HiFi



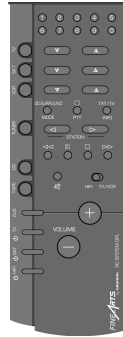
Fine Arts System
59802 602 0100



Fine Arts Tuner
59802 601 0100



Fine Arts CD-Player
59802 603 0000



Fine Arts System DPL
59802 616 0100



Grundig System
59802 608 0100



City Line System
59802 607 0100



URC 20
75954 068 5600



M 100
59802 624 0100

Audio/HiFi



PA 1
75954 034 8700



RC PA2/3
59802 619 0100



RC PA5
59802 630 0100



RC 400
75954 032 1700



RR 750 CD
75954 047 2800



RR 3500 CD
RR 650 CD
75954 046 3400



RC 437
75954 015 6100

Audio/HIFI



K-RCD 500
75954 036 1100



RC M14
75955 004 0100

Audio/Hi-Fi

Service Manuals from 1994 on: Audio/HiFi

Set	Service Manual	Year
AS - IR	72010 741 1500	94
CCF 23	72010 755 6500	97
CCF 102	72010 741 8000	94
CCF 120	72010 741 4000	94
CD 11	72010 745 3500	95
CD 12	72010 745 5000	95
CD 21	72010 755 5500	97
CD 22	72010 755 5500	97
CD 23	72010 756 3500	97
CD 102	72010 741 8000	94
CD 120	72010 741 4000	94
CD 436	72010 745 7500	96
CD 437	72010 745 7500	96
CD - IR	72010 741 1500	94
CD 1000	72010 745 7000	96
CDC 14	72010 745 4000	96
CDC 477	72010 745 9000	96
CDM 700	72010 755 7000	97
CDM 3000	72010 747 1500	96
CDM 5000	72010 747 1500	96
CDP 75	72010 745 1500	95
CDP 76	72010 755 1000	97
CDP 110	72010 745 1500	95
CDP 200	72010 743 8500	95
CDP 210	72010 755 1500	97
CDP 310	72010 757 8500	98
CDP-S 150	72010 752 7000	97
CDP-S 250	72010 757 1000	97
CF 1 MK II	72010 740 0500	94
CF 11	72010 744 7000	95
CF 21	72010 755 6000	97
HEINZELMANN	72010 745 1000	95
K- RCD 100	72010 743 9500	95
K-CDP 65	72010 743 9000 72010 743 9100 72010 743 9200	95
K-CDP 66	72010 755 0500 72010 755 0600	97
K-RCD 110	72010 749 9000	96
K-RCD 120	72010 756 5000	97
K-RCD 500	72010 748 4500	96
KM 11	72010 750 0500	96
KM 12	72010 754 3000	97
KM 13	72010 757 1500	97
M 2	72010 746 0500	95
M 6	72010 746 0500	95

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Set	Service Manual	Year
M 7-C	72010 752 2500	97
M 14	72010 759 4500	98
M 15	72010 740 6000	94
M 16	72010 745 2000 72010 740 6000	95
M 17-C	72010 752 2500	97
M 18-C	72010 755 8500	97
M 19-C	72010 759 1500	98
M 25 D/GB	72010 741 3500	94
M 26	72010 745 2500 72010 741 3500	95
M 27-C	72010 752 2500	97
M 28-C	72010 755 8500	97
M 29-C	72010 759 1500	98
M 30 CCF	72010 740 7500	95
M 30 CD	72010 740 7500	95
M 30-A	72010 740 7500	95
M 30-R	72010 740 7500	95
M 30-T	72010 740 7500	95
M 37-DC	72010 753 2500	97
M 38-C	72010 755 8500	97
M 40-CDC	72010 744 6500	95
M 48-DC	72010 755 8500	97
M 49-DC	72010 759 4000	98
M 100 A	72010 749 1500	96
M 100 ADPL	72010 750 6500	96
M 100 CD	72010 749 8000	96
M 100-CD MKII	72010 754 3500	97
M 100 CDC	72010 750 7000	96
M 100 CF	72010 749 8500	96
M 100 R	72010 749 1500	96
M 100 T	72010 750 6000	96
PA 1	72010 748 4000	96
PA 2	72010 746 5500	96
PA 3	72010 746 5500	96
PA 5 - TurNiT	72010 758 0500	98
R 11	72010 744 0000	95
R 12	72010 744 0000	95
R 14 DPL	72010 746 9500	96
R 21	72010 755 9000	97
R 22 DPL	72010 755 9000	97
R 23 DPL	72010 757 2000	97
R 102	72010 741 8000	94
R 120	72010 741 4000	94
R 220	72010 741 4000	94
R 310	72010 740 6500	94

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Set	Service Manual	Year
R 1000 DPL	72010 745 6500	96
RCD 400	72010 747 0500	96
RCD 405	72010 752 3000	97
RR 420 CD	72010 752 4000	97
RR 620 CD	72010 751 7000 72010 751 7100	96
RR 630 CD	72010 759 3000	98
RR 650 CD	72010 751 7000 72010 751 7100	96
RR 660 CD	72010 759 3000	98
RR 710 CD	72010 751 7500	96
RR 720 CD	72010 759 3500	98
RR 750 CD	72010 751 7500	96
RR 760 CD	72010 759 3500	98
RR 3200 CD	72010 751 8000	96
RR 3500 CD	72010 751 8000	96
SC 900	72010 754 4500	97
SC 910	72010 754 4000	97
ST 16 (ADR)	72010 752 1000	97
T 12	72010 742 6500	95
T 22	72010 755 4000	97
T - IR	72010 741 1500	94
T 1000	72010 745 5500	96
TT 1	72010 740 7000	95
TurNiT - PA5	72010 758 0500	98
UMS 1	72010 748 2000	96
UMS 2	72010 748 2000	96
UMS 11	72010 757 2500	97
UMS 12	72010 757 2500	97
UMS 12-S	72010 757 2500	97
V 4	72010 740 4000	94
V 11	72010 742 4500	95
V 12	72010 742 4500	95
V 14 DPL-RF	72010 752 1500	97
RBX-1	72010 752 2000	97
V 21	72010 755 4500	97
V 23	72010 755 5000	97
V 1000 DPL	72010 745 6500	96
YACHT BOY 360	72010 745 0500	95
YACHT BOY 400	72010 739 2500	94
Yacht Boy-P2000	72010 757 0000	97

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Service Manual from 1992 on: Car Audio

Gerät	Service Manual
BOOSTER PA 120	72010 731 9500
BOOSTER PA 240	72010 732 0000
EC 4000 RDS	72010 748 5000
EC 4200 RDS	72010 759 2000
EC 4290 CD	72010 750 5500 72010 748 5000
EC 4490 CD	72010 759 2500
EC 4600 RDS	72010 752 7500
EC 7400 RDS	72010 739 5000
EC 7500 RDS	72010 739 5000
MCD 20	72010 733 6000
MCD 30	72010 737 2500 72010 737 2600
MCD 36	72010 748 3000
MCD 40	72010 748 3000
SCD 1590 VD	72010 739 1000
SCD 1910 RDS	72010 733 2000
SCD 3390 RDS	72010 757 8000
SCD 3590	72010 739 1000
SCD 5260 RDS	72010 749 3500
WKC 1100 VD	72010 739 7000
WKC 1101 VD	72010 739 4000
WKC 1102 VD	72010 741 9500
WKC 1630	72010 744 9500
WKC 1650 VD	72010 736 1000
WKC 1670 VD	72010 738 7000
WKC 1700 VD	72010 791 8500
WKC 1701 VD	72010 791 8500
WKC 1703 RDS	72010 738 1500
WKC 1703 RDS / RS	72010 738 1500
WKC 1704 RDS	72010 738 1500
WKC 1704 RDS / RS	72010 738 1500
WKC 1705 RDS	72010 740 3500
WKC 1903 RDS	72010 731 0500
WKC 1904 RDS	72010 736 0500
WKC 2201 RDS	72010 758 6000
WKC 3100	72010 739 4000
WKC 3101	72010 739 7000
WKC 3102	72010 741 9500
WKC 3200	72010 752 4500
WKC 3201	72010 752 4500
WKC 3300	72010 752 4500
WKC 3301	72010 752 4500
WKC 3600	72010 749 1500
WKC 3630	72010 744 9500
WKC 3650	72010 736 1000
WKC 3700	72010 730 6000
WKC 3700 R	72010 730 6000

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Gerät	Service Manual
WKC 3701	72010 740 2000
WKC 3701 R	72010 730 6500
WKC 3703 RDS RS	72010 738 1500
WKC 3704 RDS RS	72010 738 1500
WKC 3705 RDS RS	72010 740 3500
WKC 3705 RDS RS	72010 740 3500
WKC 3870 RDS	72010 720 5000
WKC 3880 RDS	72010 730 5500
WKC 3880 RDS (MCD-A1)	72010 730 5500
WKC 3904 RDS	72010 731 8000
WKC 3905 RDS	72010 731 8500
WKC 4871 RDS	72010 731 7000 72010 720 0000 72010 720 0100
WKC 5100	72010 746 3600
WKC 5101	72010 746 3600
WKC 5200	72010 746 3600
WKC 5201	72010 746 3600
WKC 5300	72010 746 3000
WKC 5600	72010 746 3000
WKC 6400 RDS	72010 740 0000
WKC 6500 RDS	72010 740 0000

Observe also the instructions given in the Safety Service Manual Part No. 72010 800 0000 (p.1.18pp)

Grundig Anti-theft Systems for Car Radios

Type of Car Radio WKC/SCD/EC..	Optional Code Number 1)	Specific Code Number 2)	Removable Control Panel	Quick-out Unit 3)	Type of Car Radio WKC/SCD/EC..	Optional Code Number 1)	Specific Code Number 2)	Removable Control Panel	Quick-out Unit 3)
1590 VD		●		●	5600 RDS		●	●	
1630 VD		●	●		5690 RDS		●	●	
1650 VD		●	●		4000 RDS		●	●	
1670 VD		●	●		4290 RDS		●	●	
1703 RDS/RS		●		●	4490 RDS		●	●	
1704 RDS/RS		●		●	4600 RDS		●	●	
1705 RDS		●			2201 RDS		●	●	
1903 RDS		●	●		2301 RDS		●	●	
1904 RDS		●	●		3200 RDS		●	●	
1905 RDS		●	●		3201 RDS		●	●	
1910 RDS		●	●		3300 RDS		●	●	
2632 VD				●	3301 RDS		●	●	
2642 VD				●	3390 RDS		●	●	
2670 VD		●	●						
2680 VD		●	●						
2803 VD/A		●		RS					
2804 VD		●		RS					
2805 VD		●		RS					
2841 VD	●	from 845501	●						
2842 VD		●	●						
2845 VD	●								
3851 RDS		●	●						
3860 VD/aVD	●	●							
3870 RDS		●	●						
3880 RDS		●	●						
3904 RDS		●	●						
3905 RDS		●	●						
4804 VD		●	●	RS					
4805 VD		●	●	RS					
4870 RDS/A/C		●	●						
4871 RDS		●	●						
5500 RDS/A/C		●	●						
6400 RDS		●	●						
6500 RDS		●	●						
7400 RDS		●	●						
7500 RDS		●	●						
5100 RDS		●	●						
5101 RDS		●	●						
5200 RDS		●	●						
5201 RDS		●	●						
5290 RDS		●	●						
5300 RDS		●	●						
5390 RDS		●	●						

1) It is possible to enter any code number as four figures

2) The car radios are given a 4-place code number at the factory which cannot be changed

3) Quick-out plug-in unit. You can withdraw the car radio easily from the compartment by a handle and take it along with you.

RS plug-in unit, order no. G.IB.02-97



Anti-theft Coding of Car Radios The following is a description of the coding and decoding methods for the different types of car radios.	Types of Car Radio WK/CSD/EC...	3860 VD (and Variants 2)	2841 (DS1), 2845 2)	2841 (DS2) 2842	4870, 5500, 5000, 3851, 3870, 3880, 4871, 6400, 6500	1630, 1650, 1670 2803, 2804, 2670 2680, 4804	1903, 3904, 3905	1910, 7400, 7500	1703, 1704, 1705
Activating the coding 1. Radio is playing 2. Press button 1) for more than 3 seconds "CODE" appears in the display After 3 seconds the display shows 1) 3. Enter the code number The code number is entered by repeatedly pressing the station buttons 1-4 (station button 1 for figure 1, station button 2 for figure 2 a.s.o.). A wrong code number can be corrected by overwriting, i.e. by a new entry 4. Confirm the code number Press button 1) for more than 3 seconds "SAFE" appears in the display	BAND 3) 1 ___ BAND	U-M 3) 1 ___ U-M	U-M 1 ___ U-M	FM ___ FM	U≡ 1 ___ U≡	U 1 ___ U	U ___ U	FM ___ FM	
Is the coding activated? 1. Radio is playing 2. Press button 1) for more than 3 seconds a. The coding is activated if "SAFE" appears in the display After 3 seconds the display shows 1) Switch the radio off/on - radio starts playing b. The coding is not activated if "CODE" appears in the display After 3 seconds the display shows 1) Switch the radio off/on - radio starts playing	BAND 81 ___ 1 ___	U-M 81 ___ 1 ___	U-M 11 ___ 1 ___	FM 1 ___ ___	U≡ 5) 1 ___ <input type="checkbox"/> 1 ___	U 1 ___ 1 ___	U 1 ___ ___	FM ___ ___	
Putting into operation again On disconnection from the supply voltage the radio is electronically locked. 1. Reconnect the radio correctly to the supply voltage. 2. Switch the radio on "SAFE" appears in the display After 3 seconds the display shows 1) 3. Enter the code number 4. Confirm the code number Press button 1) for more than 3 seconds "SAFE" appears in the display After approx. 3 seconds - radio starts playing If the code number entered is not correct "SAFE" appears in the display After a waiting time the counter 4) indicates	81 ___ BAND 7	81 ___ U-M 7	1 ___ U-M 2	1 ___ FM 2	1 ___ <input type="checkbox"/> U≡ 2	1 ___ U 1	1 ___ U 2	___ FM 1	
Deactivating the coding 1. Radio is playing 2. Press button 1) for more than 3 seconds "SAFE" appears in the display After approx. 3 seconds the display shows 1) 3. Enter the code number 4. Confirm the code number Press button 1) for more than 3 seconds After approx. 3 seconds - radio starts playing If the code number entered is not correct "SAFE" appears in the display After a waiting time the counter 4) indicates	81 ___ BAND 7	81 ___ U-M 7	11 ___ U-M 2	1 ___ FM 2	1 ___ <input type="checkbox"/> U≡ 2	1 ___ U 1	1 ___ U 2	___ FM 1	

1) see chart opposite 2) Car radios with optional code number (anti-theft system 1) 3) The coding screw has to be loosened before entering the code number 4) The figure on the left of the code number indicates the number of attempts counted.

Between the attempts 1-7 the waiting time increases to 24 hours. After the 7th attempt there is always a waiting period of 24 hours until a new code can be entered. Car radios with anti-theft system 1 allow a maximum of 8 attempts. After the 8th attempt the radio must be returned to the factory for decoding. 5) The coding is activated when "SAFE" flashes in the display with the car radio switched off.

Anti-theft Coding of Car Radios The following is a description of the coding and decoding methods for the different types of car radios	Type of Car Radio WK/SCDIEC ... 5100, 5101, 5200, 5201, 5290, 5300, 5390, 5600, 5690	The following is a description of the coding and decoding methods for the different types of car radios	Type of Car Radio WK/SCDIEC ... 4000, 4200, 4290, 4490, 4600
Activating the Coding 1. Radio is playing 2. Press button 1) for more than 1 second, with the rotary knob select "CODE" in the display Press button 1) shortly - the display shows 1) 3. Enter the code number The code is entered by repeatedly pressing the station buttons 1-4 (station button 1 for figure 1, station button 2 for figure 2 a.s.o.) A wrong code number can be corrected by overwriting, i.e. by a new entry 4. Confirm the code number Press button 1) shortly "SAFE" appears in the display To leave the Expert Mode: Press button 1) for more than 1 second	EXPERT E - - - - - EXPERT EXPERT	Activating the Coding 1. Radio is playing 2. Press button 1) for more than 1 second, with the right rotary knob select "CODE" in the display Press button 1) shortly - the display shows 1) 3. Enter the code number by turning the right shaft encoder 4. Confirm the code number Press button 1) shortly "SAFE" appears in the display To leave the Expert Mode: Press button 1) for more than 1 second	⊕ (EXPERT) CH - - - - - Right shaft encoder ⊕ (EXPERT)
Is the coding activated? 1. Radio is playing 2. Press button 1) for more than 1 second a. The coding is activated if "SAFE" appears in the display b. The coding is not activated if "CODE" appears in the display To leave the Expert Mode: Press button 1) for more than 1 second	EXPERT EXPERT	Is the coding activated? 1. Radio is playing 2. Press button 1) for more than 1 second a. The coding is activated if "SAFE" appears in the display b. The coding is not activated if "CODE" appears in the display To leave the Expert Mode: Press button 1) for more than 1 second	⊕ (EXPERT) ⊕ (EXPERT)
Putting into operation again On disconnection of the supply voltage the radio is electronically locked. 1. Reconnect the radio correctly to the supply voltage 2. Switch the radio on "SAFE" appears in the display After approx. 3 seconds the display shows 1) 3. Enter the code number 4. Confirm the code number Press button 1) shortly "SAFE" appears in the display After about 3 seconds - radio starts playing If the code number entered was not correct "SAFE" appears in the display After a waiting time the counter 4) indicates	1 - - - - - EXPERT 2	Putting into operation again On disconnection of the supply voltage the radio is electronically locked. 1. Reconnect the radio correctly to the supply voltage 2. Switch the radio on "SAFE" appears in the display After approx. 1 second the display shows 1) 3. Enter the code number with the shaft encoder 4. Confirm the code number Press button 1) for about 1 second "SAFE" appears in the display After about 1 second - radio starts playing If the code number entered was not correct "SAFE" appears in the display After a waiting time the counter 4) indicates	1 - - - - - Right shaft encoder 2
Deactivating the coding 1. Radio is playing 2. Press button 1) for more than 1 second, select "SAFE" on the display with the rotary knob 3. Press button 1) shortly The display shows 1) 4. Enter the code number 5. Confirm the code number Press button 1) shortly "CODE" appears in the display If the code number entered was not correct "SAFE" appears in the display After a waiting time the counter 4) indicates 6. Press button 1) for more than 1 second	EXPERT EXPERT E 1 - - - - - EXPERT 2 EXPERT	Deactivating the coding 1. Radio is playing 2. Press button 1) for more than 1 second, select "SAFE" on the display with the rotary knob 3. Press button 1) shortly The display shows 1) 4. Enter the code number with the shaft encoder 5. Confirm the code number Press button 1) shortly "CODE" appears in the display If the code number entered was not correct "SAFE" appears in the display After a waiting time the counter 4) indicates 6. Press button 1) for more than 1 second	⊕ (EXPERT) Right shaft enc. CH 1 - - - - - Right shaft enc. 2 ⊕ (EXPERT)

1) see chart opposite 4) The figure on the left of the code number indicates the number of attempts counted.
 Between the attempts 1-7 the waiting time increases to 24 hours. After the 7th attempt there is always a waiting period of 24 hours until a new code can be entered.

Anti-theft Coding of Car Radios The following is a description of the coding and decoding methods for the different types of car radios	Type of Car Radio WKG/SC/DEC ... 2201, 2301, 3200, 3201, 3300, 3301, 3390
Activating the coding 1. Radio is playing 2. Press button 1) until a signal is sounded. "EXPERT" appears shortly in the display. Press one of the buttons 1) until "CODE" appears in the display. Press button 1) shortly. The indication 1) flashes in the display. 3. Enter the code number The code is entered by repeatedly pressing the station buttons 1-4 (station button 1 for figure 1, station button 2 for figure 2 a.s.o.) A wrong code number can be corrected by overwriting, i.e. by a new entry 4. Confirm the code number Press button 1) shortly "SAFE" appears in the display To leave the Expert Mode: Press button 1) until a signal is sounded.	EXPERT  EXPERT ---- EXPERT EXPERT
Is the coding activated? 1. Radio is playing 2. Press button 1) for more than 1 second a. The coding is activated if "SAFE" appears in the display b. The coding is not activated if "CODE" appears in the display To leave the Expert Mode: Press button 1) for more than 1 second	EXPERT EXPERT
Putting into operation again On disconnection from the supply voltage the radio is electronically locked 1. Reconnect the radio correctly to the supply voltage 2. Switch the radio on "SAFE" appears in the display After approx. 3 seconds the display shows 1) 3. Enter the code number - see above 4. Confirm the code number Press button 1) until display shows "SAFE" After about 2 seconds - radio starts playing If the code number entered was not correct "SAFE" appears in the display After a waiting period the counter 4) indicates	1---- EXPERT 2
Deactivating the coding 1. Radio is playing 2. Press button 1) until a signal is sounded. "EXPERT" appears shortly in the display. Press one of the buttons 1) until "SAFE" appears in the display. Press button 1) shortly. The indication 1) flashes in the display. 3. Enter the code number - see above 4. Confirm the code number Press button 1) shortly The display shows 1) To leave the Expert Mode: Press button 1) until a signal is sounded.	EXPERT  EXPERT 1----- EXPERT "CODE" EXPERT

1) see chart opposite 4) The figure on the left of the code number indicates the number of attempts counted. Between the attempts 1-7 the waiting period increases to 24 hours. After the 7th attempt there is always a waiting period of 24 hours until a new code can be entered.

Anti-theft Coding of Car Radios

The following is a description of the coding and decoding methods for the different types of car radios.

Type of car radio: SCD 1590 VD**Entering the code number (initial operation):**

1. Switch the radio on.
The indication "CODE" appears on the display.
2. Press station button 1 quickly.
The display shows "000".
3. Enter the code number with the station buttons 1-4.
4. Confirm the code number with the right station search button >.

Activating the coding:

1. Switch the radio off.
2. Press and hold the station buttons 1 and 4 simultaneously.
3. Switch the radio on.
The indication "Cod" appears after 2 seconds on the display.

Deactivating the coding:

1. Switch the radio off.
2. Press and hold the station buttons 1 and 4 simultaneously.
3. Switch the radio on.
The indication "Cod" appears on the display
4. Enter the code number with the station buttons 1-4.
5. Confirm the code number with the right station search button >.

Please refer to the table for other coding procedures.

Contents Electronic Appliances:

Summary of Products:





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Men's Shavers

Model	Type	Order No.	VPE	Specifications
PRO avantgarde Colour: chrome, mat  EAN No. 400367242127 8	8875	RPY 8875	6	Battery and mains operation Modern design, ergonomic Metal shaving head frame Vibra-rotation system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle Battery charge indicator, LCD Platinum-plated shaver blade 2-stage combi-cut trimmer 12-24V charging voltage for car and boat Mains operation (100-240V) is possible 60-minute quick charge Deluxe case with mirror incl. wall bracket
PRO avantgarde Colour: anthracite  EAN No. 400367242131 5	8675	RPY 8675	6	Battery and mains operation Modern design, ergonomic Metal shaving head frame Vibra-rotation system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle 2-LED battery charge and full-charge indicator and recharge request Platinum-plated shaver blade 2-stage combi-cut trimmer 12-24V charging voltage for car and boat Mains operation (100-240V) is possible 60-minute quick charge Deluxe case with mirror
PRO avantgarde Colour: chrome, mat  EAN No. 400367242133 9	8375	RPY 8375	6	Mains operation Modern design, ergonomic Metal shaving head frame Vibra-rotation system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle Platinum-plated shaver blade 2-stage combi-cut trimmer Automatic voltage adapter (100-240V) Deluxe case
PRO avantgarde Colour: silver-blue metallic  EAN No. 400367243009 6	7685	RPY 7685	6	Battery and mains operation Modern design, ergonomic Glass-fibre reinforced shaving head frame Vibra-rotation system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle 2-LED battery charge and full-charge indicator and recharge request Platinum-plated shaver blade 2-stage combi-cut trimmer 12-24V charging voltage for car and boat Mains operation (100-240V) is possible 60-minute quick charge Modern travelling etui
PRO avantgarde Colour: dark-blue specks  EAN No. 400367243011 9	7385	RPY 7385	6	Mains operation Modern design, ergonomic Glass-fibre reinforced shaving head frame Vibra-rotation system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle Platinum-plated shaver blade 2-stage combi-cut trimmer Automatic voltage adapter (100-240V) Modern travelling etui







VPE = Packing Unit

Men's Shavers

Model	Type	Order No.	VPE	Specifications
sportslines 6775 Colour: silver  EAN No. 400367243005 8	6775	RPY 6775	6	Battery and mains operation Double head Glass-fibre reinforced shaving head frame Shaving foil basket Speed stabilizer LED string with charge indication in 20% steps, visual and acoustic recharge request and battery full-charge indication 30-minute quick charge 12-24V charging voltage for car and boat Mains operation (100-240V) is possible Far extending long-hair trimmer Elegant flat case with flap for cable
sportslines 6563 Colour: blue  EAN No. 400367240850 7	6563	RPY 6563	6	Battery and mains operation Double head Glass-fibre reinforced shaving head frame Shaving foil basket Battery charge indicator (LED) Battery full-charge indicator (on completion of the charging process the signal lamp flashes) 60-minute quick charge 12-24 V charging voltage for car and boat Mains operation (100-240V) is possible Far extending long-hair trimmer Elegant flat case with flap for cable
sportslines 6363 Colour: blue  EAN No. 400367240849 1	6363	RPY 6363	6	Mains operation Double head Glass-fibre reinforced shaving head frame Shaving foil basket Switchable from 110/120V to 220/240V Far extending long-hair trimmer Elegant flat case with flap for cable
roltronic journey EAN 400367238248 7 EAN 400367238247 0 EAN 400367242076 6 	6155 6154 6163	RPY 6155 RPY 6154 RPY 6163	6 6 6	Colour: bordeaux, bicolour design Colour: petrol, bicolour design Colour: black Battery operation Rolling shutter, protection and on/off switch in one Shaving foil basket Superflat shape Battery operation with 2 mignon cells or 2 NiCd cells (not included in the delivery) Integrated small cleaning brush




VPE = Packing Unit

Men's Shavers Schumacher Collection

Model	Type	Order No.	VPE	Specifications
PRO Schumacher Collection Colour: anthracite  EAN No. 400367242129 2	8675 MS	RPY 8675MS	6	GRUNDIG SPECIAL EDITION Battery and mains operation Modern design, ergonomic Metal shaving head frame Vibration system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle 2-LED charge and full-charge indicator and recharge request Platinum-plated shaver blade 2-stage combi-cut trimmer 12-24 V charging voltage for car and boat Mains operation (100-240V) is possible 60-minute quick charge Deluxe case with mirror
	 Michael SCHUMACHER			
sportsline 6563 MS Schumacher Collection Colour: MS red  EAN No. 400367242501 6	6563 MS	RPY 6563MS	6	GRUNDIG SPECIAL EDITION Battery and mains operation Double head With Michael Schumacher emblems Glass-fibre reinforced shaving head frame Shaving foil basket Battery charge indicator (LED) Battery full-charge indicator (on completion of the charging process the signal lamp flashes) 60-minute quick charge 12-24V charging voltage for car and boat Mains operation (100-240V) is possible Far extending long-hair trimmer Elegant flat case with flap for cable
	 Michael SCHUMACHER			
single head 5563 RS Schumacher Collection Colour: RS yellow  EAN No. 400367243007 2	5563 RS	RPY 5563RS	6	GRUNDIG SPECIAL EDITION Battery and mains operation With Ralf Schumacher emblems Glass-fibre reinforced shaving head frame Shaving foil basket Battery charge indicator (LED) Battery full-charge indicator (on completion of the charging process the signal lamp flashes) 60-minute quick charge 12-24V charging voltage for car and boat Mains operation (100-240V) is possible Far extending long-hair trimmer Travelling etui
	 Ralf Schumacher Collection			



VPE = Packing Unit

Men's Shavers - Special Offers




Model	Type	Order No.	VPE	Specifications
single head Colour: green  EAN No. 400367240848 4	5563	RPY 5563	6	Battery and mains operation Glass-fibre reinforced shaving head frame Shaving foil basket Battery charge indicator Battery full-charge indicator (on completion of the charging process the signal lamp flashes) 60-minute quick charge Mains operation (100-240V) is possible Far extending long-hair trimmer Elegant flat case with flap for cable
single head Colour: green  EAN No. 400367240847 7	5363	RPY 5363	6	Mains operation Glass-fibre reinforced shaving head frame Shaving foil basket Switchable from 110/120V to 220/240V Far extending long-hair trimmer Elegant flat case with flap for cable
single head Colour: black-line  EAN No. 400367243016 4	5582	RPY 5582	6	Battery and mains operation With Ralf Schumacher emblems Glass-fibre reinforced shaving head frame Shaving foil basket Battery charge indicator (LED) Battery full-charge indicator (on completion of the charging process the signal lamp flashes) 60-minute quick charge 12-24V charging voltage for car and boat Mains operation (100-240V) is possible Far extending long-hair trimmer Travelling etui

VPE =Packing Unit


Hair Trimmers

Model	Type	Order No.	VPE	Specifications
hairstyle Colour: black/silver  EAN No. 400367240846 0	4565	RPY 4565	6	Specifications Battery and mains operation - top class Charging station (and appliance holder in one) Solid detachable blade set Precision-ground for an extremely long lifetime "Green" power cell in line with the environment (approx. 50 min. operating time) Mains operation (100-240V) is possible Attachable comb with 8 steps Integrated cutting length adjustment, possible settings 2, 4, 7, 10, 13, 16, 22mm Practical case Small oil bottle, small cleaning brush
hairstyle Colour: black/silver  EAN No. 400367240845 3	4365	RPY 4365	6	Specifications Mains operation - top class Solid detachable blade set Precision-ground for an extremely long lifetime Automatic voltage adapter (100-240V) Attachable comb with 8 steps Integrated cutting length adjustment, possible settings 2, 4, 7, 10, 13, 16, 22mm Practical case Small oil bottle, small cleaning brush

Beard Trimmers





Model	Type	Order No.	VPE	Specifications
thema universal Colour: black  EAN No. 400367234914 5	4543	RPY 4543	6	Specifications Battery and mains operation "Green" power cell in line with the environment Solid detachable blade set Attachable long-hair trimmer Cutting length 2.5 - 15 mm in 6 steps Solid blade set Charge signal lamp Travelling case Small oil bottle, small cleaning brush
beard trimmer, mains Colour: black  EAN No. 400367240369 4	4363	RPY 4363	6	Specifications Mains operation Detachable solid blade set Detachable vario comb / 5 settings from 3 to 15 mm Travelling case Small oil bottle, small cleaning brush
thema battery Colour: black  EAN No. 400367242535 1	4143 IT	RPY 4143 IT	6	Specifications Battery operation Attachable long-hair trimmer Cutting length 2.5 - 15 mm in 6 steps Solid blade set Battery operation with 3 mignon cells or 3 NiCd cells (not included in the delivery) Small oil bottle, small cleaning brush

Hair Trimmer - Special Offer



hairstyle Colour: black  EAN No. 400367242402 6	4355 ME	RPY 4355ME	6	Specifications Mains operation Cutting length 0.1 - 3 mm, adjustable on the trimmer Solid blade set Vario comb 4 - 18 mm Small oil bottle, small cleaning brush
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VPE = Packing Unit

Lady Shavers/Epilation






Model	Type	Order No.	VPE	Specifications
lady care wet & dry Colour: mint  EAN No. 400367240626 8	2465	RPY 2465	6	Battery operation For wet and dry shave Charging station / appliance holder "Green" power cell (NiMH) in line with the environment Multi-functional improved shaving system for: - the arms - the legs - the armpit zone - and bikini line hairs Elegant soft pouch and small cleaning brush
lady care wet & dry Colour: turquoise  EAN No. 400367240625 1	2165	RPY 2165	6	Battery operation For wet and dry shave Operation with two mignon cells or NiCd cells (not included in the delivery) Multi-functional improved shaving system for: - the arms - the legs - the armpit zone - and bikini line hairs Elegant soft pouch and small cleaning brush
lady care epilator Colour: emerald-green  EAN No. 400367242101 8	2275	RPY 2275	6	Mains operation Attractive, elegant design Two speeds - I. fine hairs - II. coarser hairs Epilation method based on tweezers principle Transformer 220V to low-voltage safety operation Practical case
lady care epilator Colour: black-marbled  EAN No. 400367238244 9	2255	RPY 2255	6	Mains operation Two speeds - I. fine hairs - II. coarser hairs Epilation method based on tweezers principle Transformer 220V to low-voltage safety operation Practical case

Lady Shavers - Special Offers

Model	Type	Order No.	VPE	Specifications
lady care classic line EAN 400367231900 1 EAN 400367232405 0 	2632 4270	RPY 1900 RPY 4270	6 12	Battery and mains operation Battery operation with two mignon cells or with two NiCd cells (not included in the delivery) Cosmetic look, black-line design Multi-functional shaving system for: - the armpit zone - short, fine hairs - the legs Small cleaning brush Type 2632 with travelling etui
girl care Colour: calypso-red  EAN No. 400367234981 7	2145	RPY2145	6	Battery operation Youthful modern design Universally applicable for: - the armpit zone - short, fine hairs - the legs




VPE = Packing Unit

Hair Driers


Model	Type	Order No.	VPE	Specifications
hairdress professional 1500 hairdrier Colour: blue  EAN No. 400367241581 9	3765	RPY 3765	6	1500W longlife motor 230V, 50-60Hz Professional hairdresser's results with profi features 3 heat settings (incl. real cold) Two speed settings Extremely narrow concentrator nozzle Extra long cable (3 metres) Removable air inlet grille Hanging loop
hairdress professional 1500 hairdrier Colour: blue  EAN No. 400367243012 6	3765DF	RPY3765 DF	6	1500W longlife motor 230V, 50-60Hz with volume diffuser Professional hairdresser's results with profi features 3 heat settings (incl. real cold) Two speed settings Extremely narrow concentrator nozzle Extra long cable (3 metres) Removable air inlet grille Hanging loop
hairdress professional 1200 hairdrier Colour: black  EAN No. 400367243017 1	3783	RPY 3783	6	1200W longlife motor 220-240V, 50Hz Professional hairdresser 's results 3 heat settings (incl. real cold) 3 heat settings (incl. real cold) Extremely narrow concentrator nozzle Removable air inlet grille Hanging loop
hairdress travel Colour: black  EAN No. 400367235117 9	3345	RPY 3345	6	1000W hand-held hair dryer with folding handle especially designed for travels Switchable to 110-120 / 230-240V, 50-60Hz 2 heat settings with indicator Air concentrator nozzle 2 adapters Pouch Hanging loop
freestyle 6 in 1 Colour: white/ calypso-red  EAN No. 400367239410 7	3455	RPY 3455	6	Hair styling set for many applications Six different attachments for styling - zig-zags - curls - waves - spirals - straightening - crimps

VPE =Packing Unit

Oral Hygiene





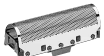




Model	Type	Order No.	VPE	Specifications
vario clean family timer  EAN No. 400367243013	1387	RPY 1387	6	Electric toothbrush, battery operation Optimum plaque removal works on oscillating round brush principle Vario clean: 2 brushing levels - 70° Intensive (for healthy gums) - 40° Care (for sensitive gums and for massaging the gums) - 4 attachable toothbrushes Brush with recessed inner bristles for optimum adaptation to the shape of the tooth Multituft bristles with optimum rounding Timer and battery charge indicator Red diode flashes when reaching the minimum cleaning time, green diode lights during the charging process Cap protecting the attachable brushes from dust Automatic voltage adapter 100 to 240V 1hour operating time when fully charged
vario clean single  EAN No. 400367243014 0	1383	RPY 1383	6	Electric toothbrush, battery operation Optimum plaque removal works on oscillating round brush principle Vario clean: 2 brushing levels - 70° Intensive (for healthy gums) - 40° Care (for sensitive gums and for massaging the gums) - 1 attachable toothbrush Brush with recessed inner bristles for optimum adaptation to the shape of the tooth Multituft bristles with optimum rounding Cap protecting the attachable brushes from dust Automatic voltage adapter 100 to 240V 1hour operating time when fully charged
Spare brush set  EAN No. 400367241358 7	GS13	RPZ 1300	12*	Spare brushes for vario clean 1387, 1383, 1365 (SL) With extra brush head, exchangeable (doubled lifetime) Available in four different colours: mint, blue, red, lilac Brush with recessed inner bristles for optimum adaptation to the shape of the tooth * sale only in VPE

Oral Hygiene - Special Offer

Model	Type	Order No.	VPE	Specifications
vario clean solo  EAN No. 400367243014 0	1365SL	RPY 1365SL	6	Electric toothbrush, battery operation Optimum plaque removal works on oscillating round brush principle Vario clean: 2 brushing levels - 70° Intensive (for healthy gums) - 40° Care (for sensitive gums and for massaging the gums) - 1 attachable toothbrush Multituft bristles with optimum rounding Automatic voltage adapter 100 to 240V 1hour operating time when fully charged

VPE = Packing Unit

Accessories - Men's Shavers

Shaver blades	Type	Order No.	VPE	Specifications
 EAN No. 400367232794 5	GS 80	RPS 8000	10	Shaving foil basket platinum-plated for roltronic PRO 8835, 8635, 8345, 8335, 7658, 7645, 7345 PRO avantgarde 8875, 8675, 8375, 7685, 7585, 7385
 EAN No. 400367243015 7	GS 80 C	RPS 8000C	10	Shaving foil basket platinum-plated with combi cut Foil geometry for "problem hairs" roltronic PRO 8835, 8635, 8345, 8335, 7658, 7645, 7345 PRO avantgarde 8875, 8675, 8375, 7685, 7585, 7385
 EAN No. 400367238601 0	GS 63	RPS 6300	10	Shaving foil basket platinum-plated for double head plus 6655, 6355, sportsline 6563, 6363, 6775
 EAN No. 400367240734 0	GS 53	RPS 5300	10	Shaving foil basket for single head 5563, 5363
 EAN No. 400367226732 6	GS 21	RPY 2400	10	Shaving foil basket platinum-plated for Alpha 3, Beta 3, roltronic, all G 8255 roltronic Universal G 8264 - C/D/E/EK/G, G8265 / 8267 G 8242 / G 8243 6335 / 6536 6154 / 6155 / 6163
 EAN No. 400367225263 6	GS 20	RPY 1700	10	Shaver blade platinum-plated for Alpha 1/2, Beta 1/2, roltronic G 8254 roltronic Universal G 8264 / A and B Accent
 EAN No. 400367222930 0	GS 16	RPV 1300	10	Shaver blade for Delta G 8262, G 8263
 EAN No. 400367222929 4	GS 14	RPV 1200	10	Shaver blade for Gamma G 8240, G 8241
 EAN No. 400367222928 7	GS 3	RPV 1100	10	Shaver blade for Alpha G 8225, G 8229 and Beta G 8234, G 8235




VPE = Packing Unit




Accessories - Men's Shavers

Cutter blocks	Type	Order No.	VPE	Specifications
 EAN No. 400367232795 2	GS 81	RPS 8100	10	Precision-ground cutter for roltronic PRO 8835, 8635, 8345, 8335, 7658, 7645, 7345 PRO avantgarde 8875, 8675, 8375, 7685, 7585, 7385
 EAN No. 400367238602 7	GS 64	RPS 6400	10	Cutter blocks for double head plus 6655, 6355
 EAN No. 400367240736 4	GS 68	RPS 6800	10	Double cutter block for sportsline 6563, 6363, 6775
 EAN No. 400367240735 7	GS 54	RPS 5400	10	Cutter block for single head 5563, 5363
 EAN No. 400367238674 4	GS 66	RPS 6600	10	Cutter block for 6154, 6155 all roltronic Alpha 1/2/3, Beta 1/2/3, 5543
 EAN No. 400367222933 1	GS 9	RPV 1600	10	Cutter block for Delta G 8262, G 8263
 EAN No. 400367222932 4	GS 8	RPV 1500	10	Cutter block for Gamma G 8240, G 8241
 EAN No. 400367222931 7	GS 7	RPV 1400	10	Cutter block for Alpha G 8225, G 8229 and Beta G 8234, G 8235

VPE = Packing Unit





Other Accessories - Men's Shavers

Wall bracket	Type	Order No.	VPE	Specifications
 EAN No. 400367242135 3	GS 84	RPZ 8400	6	Wall bracket for PRO avantgarde Colour: black
 EAN No. 400367234349 5	GS 61	RPZ 6100	6	Wall bracket for PRO Colour: black
 EAN No. 40367239690 3	GS 67	RPZ 6700	6	Wall bracket for double head plus 6655, 6355 sportsline 6563, 6363 single head 5563, 5363 Colour: grey

 EAN No. 400367238521 1	GS 62	RPZ 6200	10	Pre-Shave Stick for a non-irritating close electric shave 50g compact powder stick
 EAN No. 400367238618 8	GS 65	RPZ 6500	10	Cleaning spray for cleaning and maintaining all shaving components 100ml pump bottle Biologically degradable
 EAN No. 400367241120 0	GS 83	RPZ 8300	1	Leather etui for all roltronic PRO models

VPE =Packing Unit

Accessories - Lady Shavers

Cutter blocks	Type	Order No.	VPE	Specifications
 EAN No. 4003672267319	GS 40	RPY 2300	10	Shaving system for lady care G 2632, G 2614, G 4270
 EAN No. 400367240842 2	GS 25	RPS 2500	10	Cutter block for lady care wet & dry 2465, 2165
Foil baskets	Type	Order No.	VPE	Specifications
 EAN No. 400367240844 6	GS 26	RPS 2600	10	Foil basket for lady care wet & dry 2465
 EAN No. 400367240843 9	GS 27	RPS 2700	10	Foil basket for lady care wet & dry 2165

VPE = Packing Unit

The most important Spare Parts for GRUNDIG Shavers

Shaver type	5363	5543	5563	6363	6563
Spare Part	Order No.	Order No.	Order No.	Order No.	Order No.
Protective cap	72081 019 2000	72082 012 9000	72081 019 2000	72081 018 4000	72081 018 9000
Shaving head frame	72081 019 3000	72082 013 0000	72081 019 3000	72081 018 5000	72081 018 5000
Motor	72086 007 8000	72086 002 8000	72086 008 8000	72086 007 8000	72086 008 2000
Electronics	-	72086 003 1000	72086 008 4000	-	72086 008 4000
Inside casing	72081 019 4000	-	72081 019 9000	72081 018 6000	72081 019 7000
Decorative parts	72081 019 5000	-	72081 020 0000	72081 018 7000	72081 019 8000
Motion transformer	-	72083 005 4000	72083 009 9000	-	72083 009 9000
Long-hair trimmer	72087 001 0000	72084 003 7000	72087 001 0000	72087 001 0000	72087 001 0000
Cutter block spring	72084 003 9000	72083 005 1000	72084 003 9000	72084 003 9000	72084 003 9000
Sealing	72085 003 3000	72082 005 4000	72085 003 3000	72085 003 3000	72085 003 3000
On - Off slide	72081 018 8000	-	72081 018 8000	72081 018 8000	72081 018 8000
NiCd accumulator	-	72086 001 1000	72086 000 6000	-	72086 000 6000

Shaver type	8875	8675 MS	8675	8375	6563 MS
Spare part	Order No.	Order No.	Order No.	Order No.	Order No.
Shaving head frame	72082 014 0000	72082 014 0000	72082 014 0000	72082 014 0000	72081 020 1000
Motor	72086 009 1000	72086 009 1000	72086 009 1000	72086 009 1000	72086 008 2000
Electronics	72086 008 7000	72086 008 8000	72086 008 8000	72086 009 0000	72086 008 4000
Inside casing	72081 020 4000	72081 020 5000	72081 020 5000	72081 020 6000	72081 019 7000*
Rear part of the casing	72081 020 7000	72081 020 8000	72081 030 4000	72081 020 9000	72081 030 0000
Decorative parts	72081 030 1000	72081 030 2000	72081 030 5000	72081 030 3000	72081 020 2000
Motion transformer	72083 010 0000	72083 010 0000	72083 010 0000	72083 010 0000	72083 010 0000
Long-hair trimmer	72084 004 0000	72084 004 1000	72084 004 4000	72084 004 2000	72084 004 3000
Cutter block spring	-	-	-	-	72084 003 9000
Sealing	72085 002 9000	72085 002 9000	72085 002 9000	72085 002 9000	72085 003 3000
Accumulator cpl.	72086 012 8000	72086 012 8000	72086 012 8000	-	72086 001 1000**

*casing cpl. **NiCd accu

Hear and Beard Trimmer Shaver Type	4143	4345/55	4363	4543	4547
Spare Part	Order No.	Order No.	Order No.	Order No.	Order No.
Vario comb	72081 010 1000	72083 007 9000	72083 009 8000	72081 010 1000	72083 007 9000
Comb no.: 1	-	-	-	-	72086 007 2000
Comb no.: 3	-	-	-	-	72083 007 8000
Comb 6-9 mm	-	-	-	-	-
Comb 12-15 mm	-	-	-	-	-
Comb	-	72083 007 2000	-	-	-
Blade set	72087 000 7000	72087 000 6000	72087 000 9000	72087 000 5000	-
Electronics	-	-	72086 007 5000	72086 006 0000	72086 006 4000
Motor	72086 012 2000	-	72086 007 4000	72086 005 5000	72086 006 3000
Oscillating armature	-	72086 005 8000	-	-	-
Magnet coil	-	72086 005 6000	-	-	-

Hair Trimmer Type	4365	4565
Spare Part	Order No.	Order No.
Body	72088 000 1000	72088 000 2000
Blade set	72087 001 1000	72087 001 1000
Charging station	-	72089 016 3000

The most important Spare Parts for GRUNDIG Shavers

Shaver Type	5334	5335	5543	6355	6655	7345
Spare Part	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
Ejector plate, left	-	-	-	-	-	-
Ejector plate, right	-	-	-	-	-	-
Protective cap	72082 005 6000	72082 005 2000	72082 012 9000	72081 016 9000	72081 016 9000	-
Shaving head frame	72082 007 7000	72082 005 3000	72082 013 0000	72082 012 6000	72082 012 6000	72082 011 7000
Motor	72086 003 9000	72086 003 9000	72086 002 8000	72086 006 9000	72086 007 1000	72086 004 4000
Electronics	72086 005 1000	72086 005 1000	72086 003 1000	72086 007 0000	72086 007 2000	72086 004 7000
Front part of the casing	72081 013 3000	72081 013 2000	72081 017 5000	72081 017 0000*	72081 001 9000*	72081 013 7000
Rear part of the casing	72081 004 3000	72081 007 7000	72081 017 6000	-	-	72081 014 1000
Ejector spring	-	-	-	-	-	-
Rolling shutter	-	-	-	-	-	72082 012 0000
Tubular holder	-	-	-	-	-	-
Cutter block spring	72083 005 1000	72083 005 1000	-	-	-	-
Motion transformer	72083 005 4000	72083 005 4000	72083 005 4000	72082 012 7000	72082 012 7000	72083 014 6000
Long-hair trimmer	72084 002 9000	72084 001 9000	72084 003 7000	72084 003 6000	72084 003 6000	72084 003 1000

Shaver Type	7645	7658	8335	8345	8635	8835
Spare Part	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
Ejector plate, left	-	-	-	-	-	-
Ejector plate, right	-	-	-	-	-	-
Protective cap	-	-	-	-	-	-
Shaving head frame	72082 011 9000	72082 011 2000	72082 011 2000	72082 011 2000	72082 011 2000	72083 014 5000
Motor	72086 004 4000	72086 004 4000	72086 004 4000	72086 004 4000	72086 004 4000	72086 004 4000
Electronics	72086 004 8000	72086 004 7000	72086 004 7000	72086 004 7000	72086 004 8000	72086 004 3000
Front part of the casing	72081 013 9000	72081 013 9000	72081 012 1000	72081 001 9000	72081 012 2000	72081 011 9000
Rear part of the casing	72081 014 1000	72081 014 1000	72081 012 4000	72081 012 4000	72081 012 9000	72081 011 2000
Ejector spring	-	72083 014 8000	72083 014 8000	72083 014 8000	72083 014 8000	72083 014 8000
Rolling shutter	72082 012 0000	72082 012 0000	72082 011 0000	72082 011 0000	72082 011 0000	72082 010 9000
Tubular holder	-	-	-	-	-	-
Cutter block spring	-	-	-	-	-	-
Motion transformer	72083 014 6000	72083 014 6000	72083 014 6000	72083 014 6000	72083 014 6000	72083 014 6000
Long-hair trimmer	72084 003 0000	72084 003 0000	72084 002 7000	72084 002 7000	72084 002 7000	72084 002 6000

* casing complete

Exchange products:

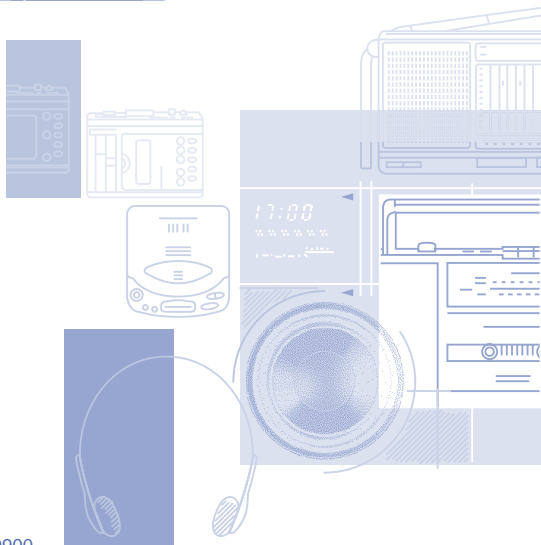
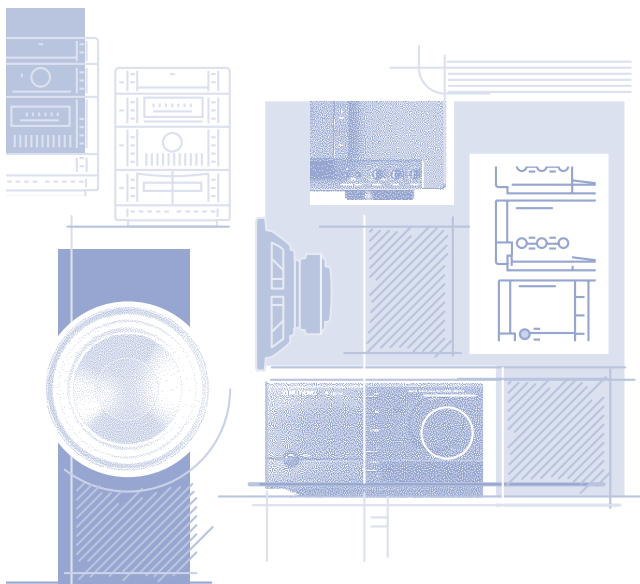
All hairdress products
 freestyle 6 in 1
 roltronic journey 6154/6155
 All lady care products

Exception: lady care 2632

Calendar 1999

January	February	March	April	May	June
1 Fr New Year	1 Mo	1 Mo Freizeit	1 Th	1 Sa 1st May	1 Tu
2 Sa	2 Tu	2 Tu Freizeit	2 Fr Good Friday	2 Su	2 We 22
3 Su	3 We 5	3 We Freizeit 9	3 Sa	3 Mo	3 Th Fronleichnam
4 Mo	4 Th Spielwarenmesse	4 Th Freizeit	4 Su Easter Sunday	4 Tu	4 Fr
5 Tu 1	5 Fr in Nürnberg	5 Fr Freizeit	5 Mo Easter Monday	5 We 18	5 Sa
6 We	6 Sa Spielwarenmesse	6 Sa Freizeit/ITB	6 Tu	6 Th	6 Su
7 Th	7 Su Spielwarenmesse	7 Su Freizeit/ITB	7 We 14	7 Fr	7 Mo
8 Fr	8 Mo Spielwarenmesse	8 Mo ITB in Berlin	8 Th	8 Sa	8 Tu
9 Sa	9 Tu Spielwarenmesse	9 Tu ITB	9 Fr	9 Su	9 We 23
10 Su	10 We Spielwarenmesse	10 We ITB 10	10 Sa	10 Mo	10 Th
11 Mo	11 Th 6	11 Th	11 Su	11 Tu	11 Fr
12 Tu	12 Fr	12 Fr	12 Mo	12 We 19	12 Sa
13 We 2	13 Sa	13 Sa	13 Tu	13 Th	13 Su
14 Th	14 Su	14 Su	14 We 15	14 Fr	14 Mo
15 Fr	15 Mo	15 Mo	15 Th	15 Sa	15 Tu
16 Sa	16 Tu	16 Tu	16 Fr Car & Sound	16 Su	16 We Eltec 24
17 Su	17 We 7	17 We 11	17 Sa in Sinsheim	17 Mo	17 Th in Nürnberg
18 Mo	18 Th	18 Th CeBIT	18 Su Car & Sound	18 Tu	18 Fr Eltec
19 Tu	19 Fr	19 Fr in Hannover	19 Mo Hannover Messe	19 We 20	19 Sa
20 We 3	20 Sa	20 Sa CeBIT	20 Tu Hannover Messe	20 Th	20 Su
21 Th	21 Su	21 Su CeBIT	21 We Hannover Messe 16	21 Fr	21 Mo
22 Fr	22 Mo Domotechnika	22 Mo CeBIT	22 Th Hannover Messe	22 Sa	22 Tu
23 Sa	23 Tu in Köln	23 Tu CeBIT	23 Fr Hannover Messe	23 Su Whit Sunday	23 We 25
24 Su	24 We Domotechnika 8	24 We CeBIT 12	24 Sa Hannover Messe	24 Mo Whit Monday	24 Th
25 Mo	25 Th Domotechnika	25 Th	25 Su	25 Tu	25 Fr
26 Tu	26 Fr	26 Fr	26 Mo	26 We 21	26 Sa
27 We 4	27 Sa Freizeit	27 Sa	27 Tu	27 Th	27 Su
28 Th	28 Su in Nürnberg	28 Su	28 We 17	28 Fr	28 Mo
29 Fr		29 Mo	29 Th	29 Sa	29 Tu
30 Sa		30 Tu	30 Fr	30 Su	30 We 26
31 Su		31 We 13		31 Mo	

July	August	September	October	November	December
1 Th	1 Su	1 We IFA 35	1 Fr Eltefa	1 Mo	1 We 48
2 Fr	2 Mo	2 Th IFA	2 Sa	2 Tu	2 Th
3 Sa	3 Tu	3 Fr IFA	3 Su Tag d. Dt. Einheit	3 We 44	3 Fr
4 Su	4 We 31	4 Sa IFA	4 Mo	4 Th	4 Sa
5 Mo	5 Th	5 Su IFA	5 Tu	5 Fr	5 Su
6 Tu	6 Fr	6 Mo	6 We 40	6 Sa	6 Mo
7 We 27	7 Sa	7 Tu	7 Th	7 Su	7 Tu
8 Th	8 Su	8 We 36	8 Fr	8 Mo	8 We 49
9 Fr	9 Mo	9 Th	9 Sa	9 Tu	9 Th
10 Sa	10 Tu	10 Fr	10 Su	10 We 45	10 Fr
11 Su	11 We 32	11 Sa	11 Mo	11 Th	11 Sa
12 Mo	12 Th	12 Su	12 Tu	12 Fr	12 Su
13 Tu	13 Fr	13 Mo	13 We 41	13 Sa	13 Mo
14 We 28	14 Sa	14 Tu	14 Th	14 Su	14 Tu
15 Th	15 Su	15 We 37	15 Fr	15 Mo	15 We 50
16 Fr	16 Mo	16 Th IAA	16 Sa	16 Tu	16 Th
17 Sa	17 Tu	17 Fr in Frankfurt	17 Su	17 We 46	17 Fr
18 Su	18 We 33	18 Sa IAA	18 Mo Systems	18 Th	18 Sa
19 Mo	19 Th	19 Su IAA	19 Tu in München	19 Fr	19 Su
20 Tu	20 Fr	20 Mo IAA	20 We Systems 42	20 Sa	20 Mo
21 We 29	21 Sa	21 Tu IAA	21 Th Systems	21 Su	21 Tu
22 Th	22 Su	22 We IAA 38	22 Fr Systems	22 Mo	22 We 51
23 Fr	23 Mo	23 Th IAA	23 Sa Consumenta	23 Tu	23 Th
24 Sa	24 Tu	24 Fr IAA	24 Su in Nürnberg	24 We 47	24 Fr Christmas
25 Su	25 We 34	25 Sa IAA	25 Mo Consumenta	25 Th	25 Sa Christmas
26 Mo	26 Th	26 Su IAA	26 Tu Consumenta	26 Fr	26 Su Christmas
27 Tu	27 Fr	27 Mo	27 We Consumenta 43	27 Sa	27 Mo
28 We 30	28 Sa IFA	28 Tu	28 Th Consumenta	28 Su	28 Tu
29 Th	29 Su in Berlin	29 We Eltefa 39	29 Fr Consumenta	29 Mo	29 We 52
30 Fr	30 Mo IFA	30 Th in Stuttgart	30 Sa Consumenta	30 Tu	30 Th
31 Sa	31 Tu IFA		31 Su Consumenta		31 Fr New Year Eve



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