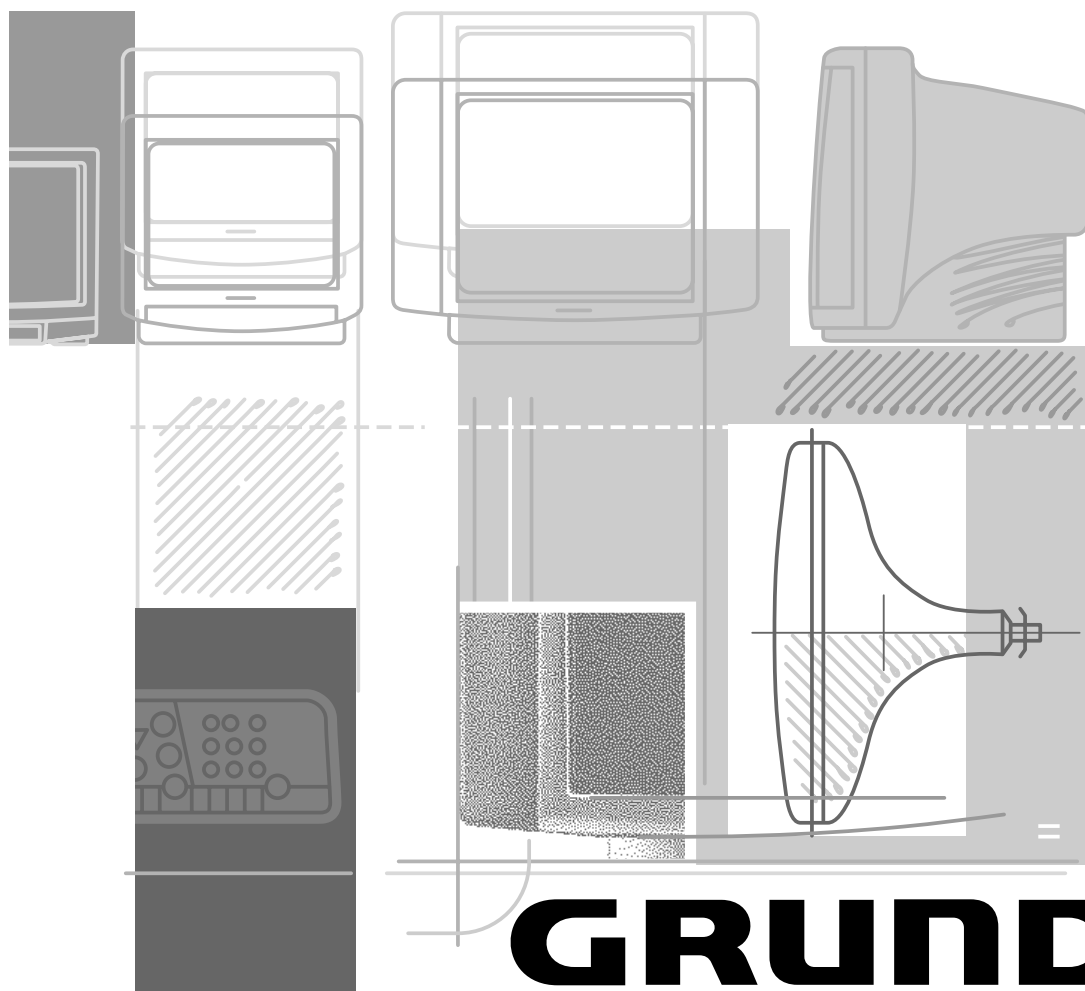
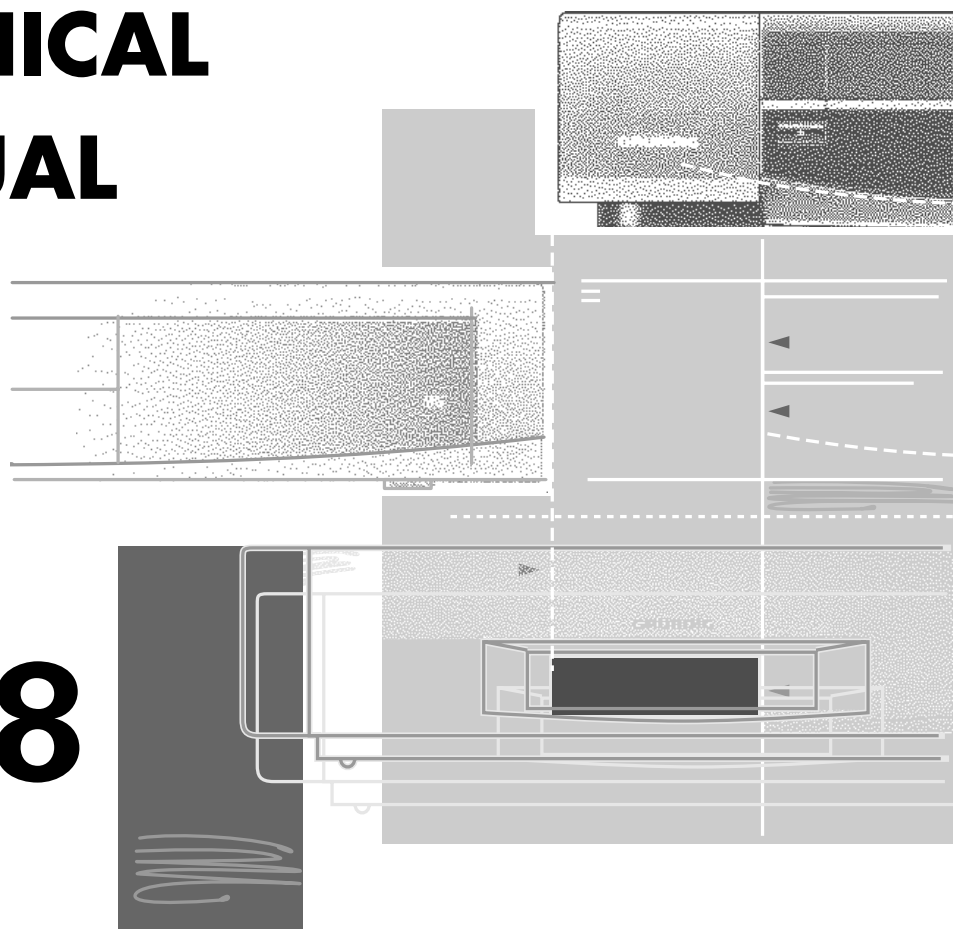


TECHNICAL ANNUAL

1998



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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: ++49 911 / 7 03 19 05

Technical Annual 1998

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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Satellite Reception	6.1	SAT
Audio Technology	7.1	Audio
Electronic Appliances	8.1	Electronic Appliances

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.

<p>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</p>	<p>Fehleranhänger für Module / Label tag for modules Cartellino dei difetti per i moduli / Fiche suiveuse pour module Etiqueta de avería para módulos</p> <p><input type="checkbox"/> Fehler tritt sofort auf / Fault occurs immediately / Il difetto compare subito Le défaut apparaît immédiatement / La avería aparece inmediatamente</p> <p><input type="checkbox"/> Fehler tritt nur zeitweise auf / Fault occurs intermittently / Il difetto compare solo a periodi / Le défaut est intermittent / La avería aparece intermitentemente</p> <p><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 avería aparece tras minutos</p> <p><input type="checkbox"/> Wackelkontakt / intermittent contact / Contatto difettoso Mauvais contact intermittent / contacto intermitente</p> <p>Sonstige Fehlererscheinungen: / Other faults: / Altri difetti: Autres défauts: / Otras averías: _____</p> <p>_____</p> <p>_____</p>
---	--

<p>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!</p>	<p>Sach-Nr.: 09624-645.03</p>
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Thank you very much for your kind assistance.

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Morocco	Umareq 43, Bld. Ibn. Tachfine Casablanca Morocco	Phone: 0 02 12-2-30 15 42 Fax: 0 02 12-2-30 30 03
New Zealand	Sound group Holding Ltd. Unit B/3 Rothwell Ave. Albany P.O. Box 33-791 Takapuna, Auckland New Zealand	Phone: 00 64-9-4 15-66 80 Fax: 00 64-9-4 15-66 83
Romania	SSH Marketing GmbH Buchenstraße 15 D-63526 Erlensee Germany	Phone: 00 49-61 83-9 11 32-0 Fax: 00 49-61 83-9 11 32-18
South Africa	<u>for car audio products:</u> SSM Unit 4 Stand 6, Fedlife Park Tonetti Street Midrand South Africa	Phone: 00 27-11-3 15 33 15 Fax: 00 27-11-8 05-36 27
	<u>for consumer electronics products:</u> Specialised Communications (Pty) Ltd. P.O. Box 41602 Craighall 2024 33th Avenue, Orchards Johannesburg 2192 South Africa	Phone: 00 27-11-7 28 10 53 Fax: 00 27-11-7 28 15 25
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Gen.
Part

Partners help each other

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

For this purpose, this adhesive label is enclosed with all car radios delivered by the GRUNDIG service organisation.

GRUNDIG SERVICE		SERVICE-Dokument		Fehlerhinweise für Autogeräte Fault Report for Car Radios	
Kauf-/Tauschdaten Purchase/Replacement Data		Rundfunkteil/Radio Stage		Cassettenteil Cassette Stage	
Gerätenummer/Serial Number		Code		<input type="checkbox"/> UKW gestört FM defective <input type="checkbox"/> LMK gestört L/M/SW defective <input type="checkbox"/> keine Funktion No Functions <input type="checkbox"/> Speicherfehler Memory Fault <input type="checkbox"/> Suchlauffehler Station Search <input type="checkbox"/> Stereofehler Stereo Fault <input type="checkbox"/> Tonfehler Sound Fault <input type="checkbox"/> Verkehrsfunk Traffic Radio <input type="checkbox"/> SCV-Regelung SCV-Control <input type="checkbox"/> VIP-Betrieb VIP-Mode <input type="checkbox"/> RDS Funktionen RDS-Functions <input type="checkbox"/>	
Nur bei Geräten ohne Rahmennummer				<input type="checkbox"/> Cassette läuft nicht No Cassette drive <input type="checkbox"/> Cassettenlauf Cassette Drive <input type="checkbox"/> Cassettenauswurf Cassette Eject <input type="checkbox"/> Reverse Betrieb Reverse Mode <input type="checkbox"/> Wiedergabe-Fehler Playback Fault <input type="checkbox"/> Kanalausfall Loss of Channel <input type="checkbox"/> Laufgeräusche Mechanical Noise <input type="checkbox"/> Sonstige Fehler Other of Faults	
Händlerstempel/Dealer Stamp Firmenstempel/Company Stamp		Wann tritt der Fehler auf When does the fault occur <input type="checkbox"/> Immer Immediatly <input type="checkbox"/> Nur zeitweise Intermittent <input type="checkbox"/> Nur bei Kälte Only when Cold <input type="checkbox"/> Nur bei Wärme Only when Hot			
Unterschrift Signature		Verkaufsdatum Date of Sale			
Austauschtag Date of Replacement		Tausch durch Replaced by			
Datum/Date		(WKZ/NL)			

Gen. Part

09624-843.90

Thank you very much for your kind assistance.

GRUNDIG

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Video Measuring Instruments	FG 9 S/PLL - Colour Generator FG 70 S/PLL/VPS/NICAM - Colour Generator VG 1100 PAL/NTSC - Video Generator VTG 700 sat - Video Transmission Generator
PALplus Equipment	PPE400 - Professional PALplus Studio Encoder PPE600 - Professional PALplus Studio Decoder VTG 700 PALplus - Video Transmission Generator
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Subgroup Automotive Test and Measuring Instruments

Brazil	Nahuel Industrial Comercial Ltda Rua Pedro Alexandrino 205 CEP 09901 Jordim Portinari, Diadema Sao Paulo	Phone Fax	+55-11-7 46 71 33 +55-11-7 46 71 81
Norway	a.s. Fartskriver Persveien 32 P.B. 78, Oekern 0508 Oslo	Phone Fax	+47-22-64 58 60 +47-22-65 83 50
Portugal	Gruber Lda Rua Oliveira Martins, 10-5ºD 2810 Feijó	Phone Fax	+351-1-2 74 76 79 +351-1-2 59 23 47
Spain	EDAGYAM S.L. C/Rosalía de Castro, 40 bajo 15895 Milladoiro (Santiago de Compostela)	Phone Fax	+34-81-52 40 75 +34-81-52 40 75
Switzerland	W. Luginbühl AG Bruneggerstraße 45 CH-5103 Möriken	Phone Fax	+41-62-8 93 24 24 +41-62-8 93 37 05

Gen.
Part

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.

Gen.
Part

<p>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</p>	<p>Fehleranhänger für Module / Label tag for modules Cartellino dei difetti per i moduli / Fiche suiveuse pour module Etiqueta de avería para módulos</p> <p><input type="checkbox"/> Fehler tritt sofort auf / Fault occurs immediately / Il difetto compare subito Le défaut apparaît immédiatement / La avería aparece inmediatamente</p> <p><input type="checkbox"/> Fehler tritt nur zeitweise auf / Fault occurs intermittently / Il difetto compare solo a periodi / Le défaut est intermittent / La avería aparece intermitentemente</p> <p><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 avería aparece tras minutos</p> <p><input type="checkbox"/> Wackelkontakt / intermittent contact / Contatto difettoso Mauvais contact intermittent / contacto intermitente</p> <p>Sonstige Fehlererscheinungen: / Other faults: / Altri difetti: Autres défauts: / Otras averías: _____</p> <p>_____</p> <p>_____</p>
---	--

<p>○</p>	<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>	<p>Sach-Nr.: 09624-645.03</p>
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Thank you very much for your kind assistance.

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.:72007-744.60

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.:72007-744.70

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.:72007-744.80

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.:72007-744.90

(in English) 72007-744.91

(in Italian) 72007-744.92

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.:72007-744.95

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.:72007-744.97

Circuitry and mechanics • length ca. 90 minutes.

Training Film: Video VS 540 HiFi

Part No.:72007-744.98

Circuitry and mechanics • length ca. 80 minutes.

Training Film: STP 300 Satellite System

Part No.:72007-744.61

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

Training Film: Highspeed Video Drive Mechanism HSD

Part No.:72007-744.81

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.

Ⓒ **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.

Gen.
Part

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: $> 1\text{s}$

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

Gen. Part 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: $> 1\text{s}$

* **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, Metrastester 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.

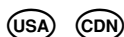
• If the safety of the product is not proven because:

- 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 LASERSTRAHLUNG TRITTS 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 – UNSYNLIG LASERSTRÅLING NAR DEKSEL APENS UNNGA EKSPONERING FOR STRALEN.
ADVARSEL – UNSYNLIG LASER STRÅLING VED ÅBNING. UNDGÅ UDSETTELSE FOR STRÅLING.
VARNING – OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÅR ÖPPAND OCH SPÅRREN ÅR URKOPPLAD. BETRAKTA 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 OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESA MAINITULLA TAVALLA SAATTAÄ ALTISTAAÄ KÄYTTÄJÄÄ TURVALLISUUSLUOKAN I YLITÄVÄLLE 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.



Adversel!

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).

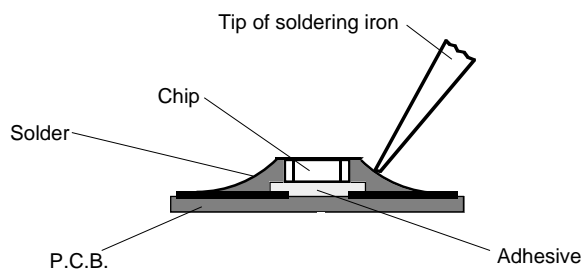


Fig. 1

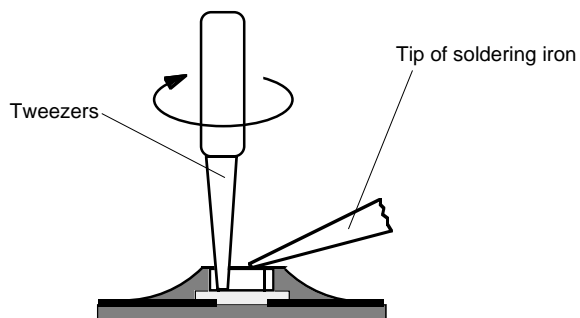


Fig. 2

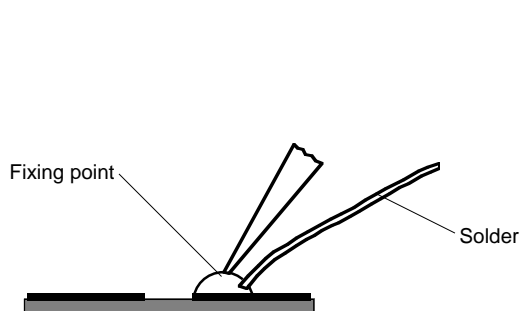


Fig. 3

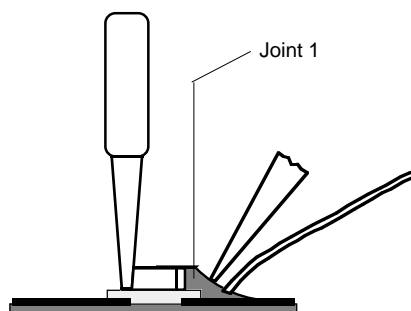


Fig. 4

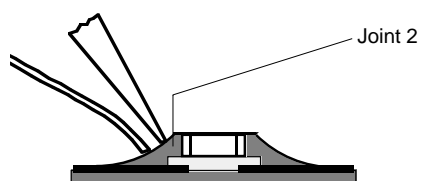


Fig. 5

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

GRUNDIG

ISDN - InfoTip

The common

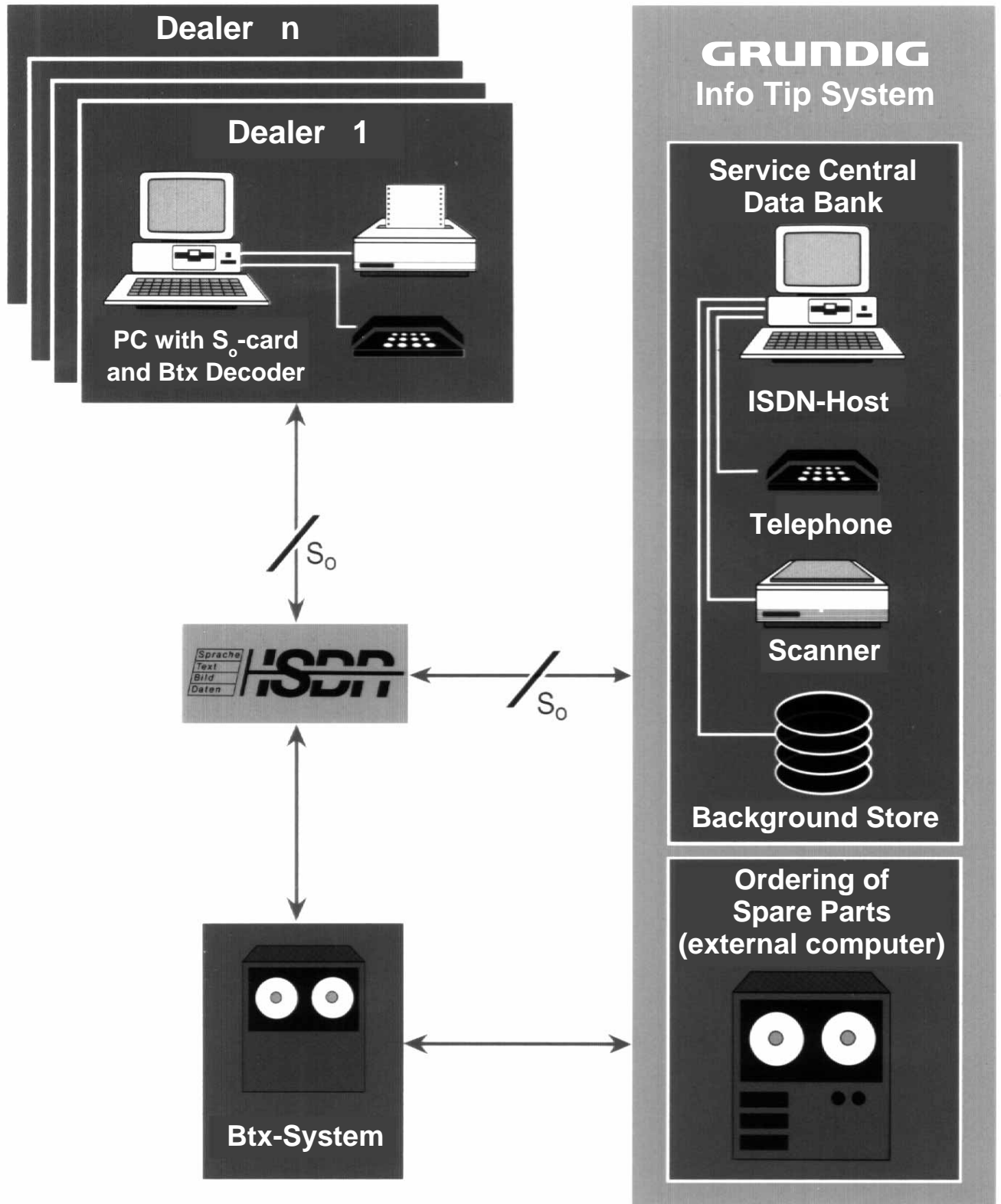
Service Communication System in the

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

Gen.
Part

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: 72011-601.00

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

Gen.
Part



TV Control 2 Part No: 72011-602.00

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

Gen.
Part



Video Control 1 Part No: 72011-610.00

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

Gen.
Part



SAT Control 1

Part No: 72011-620.00

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

Gen.
Part



Video Control LCD

Part No: 72011-615.00

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.

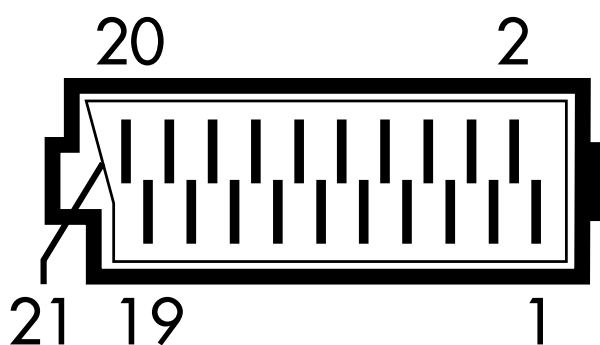
Pinning of Sockets and Plugs

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):

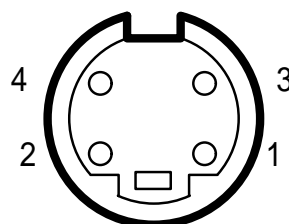
Pin	=	Signal
1	=	Audio output right
2	=	Audio input right
3	=	Audio output left
4	=	Audio ground
5	=	Blue ground
6	=	Audio input left
7	=	RGB blue input
8	=	Switching voltage
9	=	Green ground
10	=	Data lead MEGALOGIC
11	=	RGB green input
12	=	–
13	=	Red ground
14	=	Ground
15	=	RGB red input
16	=	RGB switching voltage
17	=	Video ground
18	=	RGB switching voltage ground
19	=	Video output
20	=	Video input
21	=	Shielding/ground

Gen.
Part



Pinning of Hosiden Socket (S-Video)

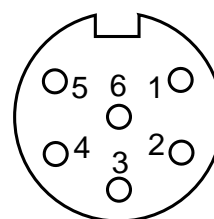
Pin	=	Signal
1	=	Ground
2	=	Ground
3	=	Y-signal
4	=	Chroma signal



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

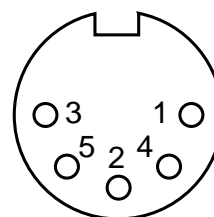


Draufsicht

Gen.
Part

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

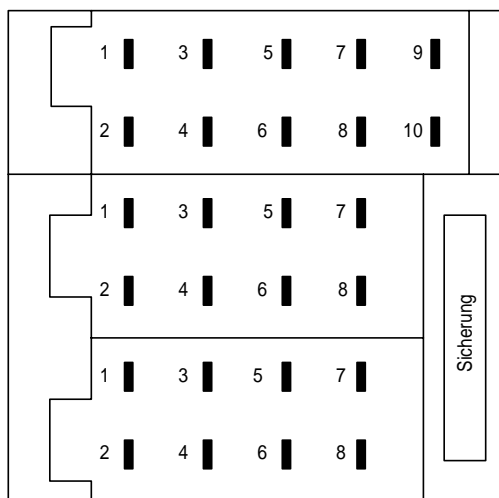
II: Loudspeaker connector block

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)

Gen.
Part



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

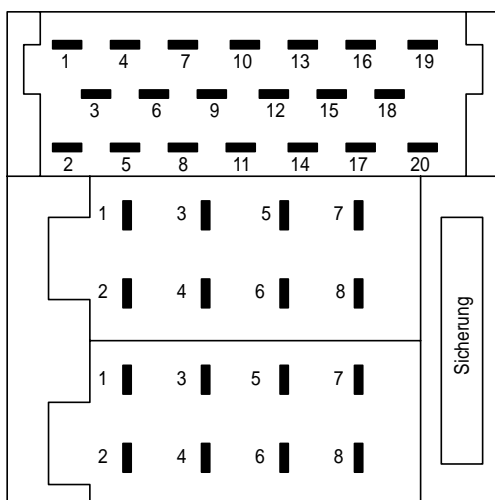
II: Loudspeaker connector block

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)

Gen.
Part



I: Additional block

II: Loudspeaker connector block

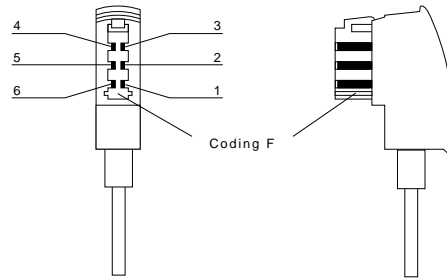
III: Power supply connector block

Top View

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

Standardized contact configuration
(TAE-plug)

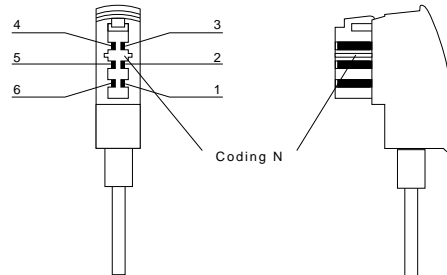
- 1 --> A 4 --> E
 - 2 --> B 5 --> NC
 - 3 --> W2 6 --> NC
- (NC = not connected)



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

Standardized contact configuration
(TAE-plug)

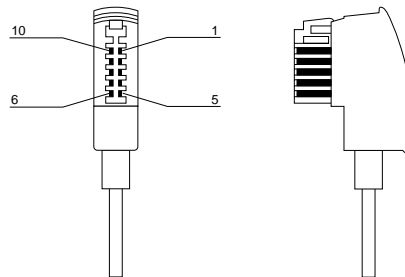
- 1 --> A 4 --> E
- 2 --> B 5 --> B1
- 3 --> W2 6 --> A1



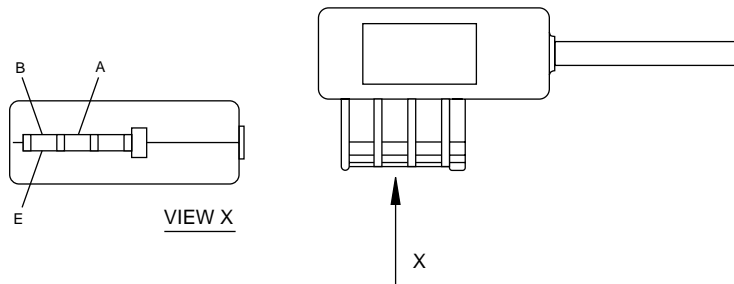
Connecting plug for Austrian variant

Contact configuration

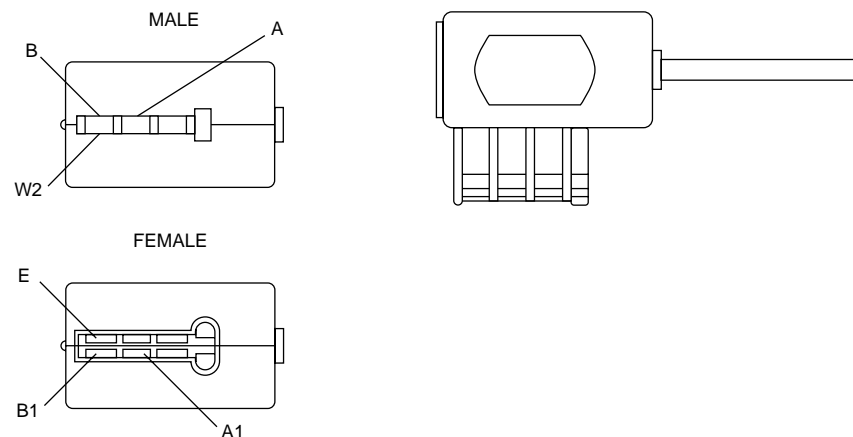
- 1 --> A 6 --> B1
 - 2 --> E 7 --> NC
 - 3 --> W2 8 --> NC
 - 4 --> NC 9 --> NC
 - 5 --> B 10 --> A1
- (NC = not connected)



Connecting plug for French variant 1

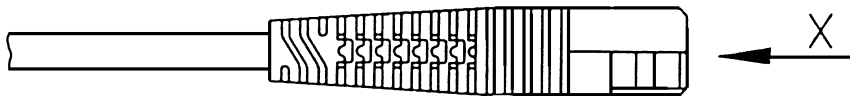


Connecting plug for French variant 2

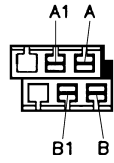


Gen.
Part

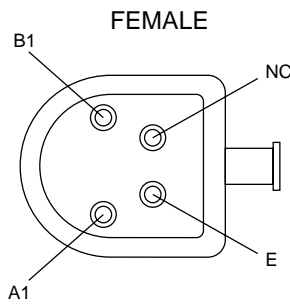
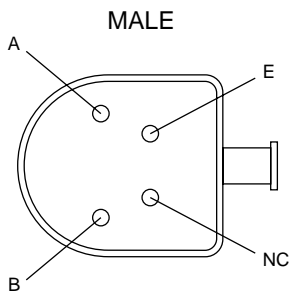
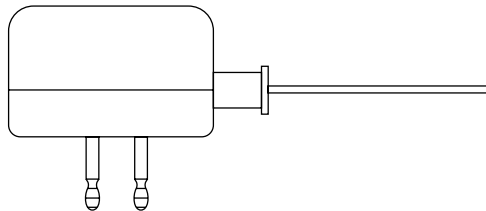
Connecting plug for Swiss variant



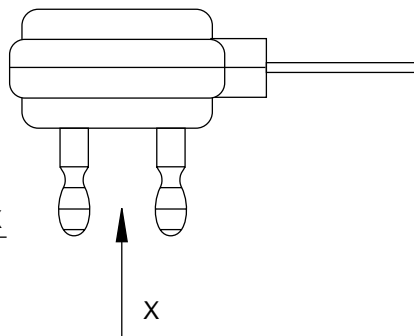
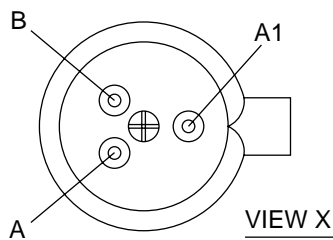
VIEW X



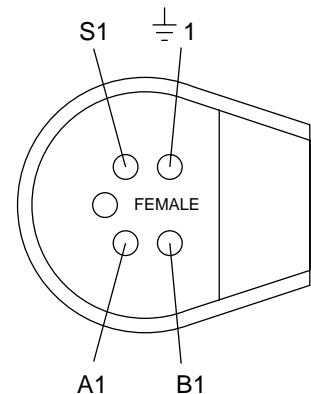
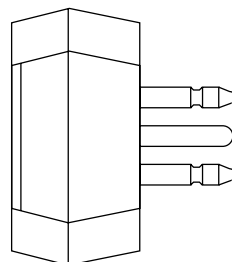
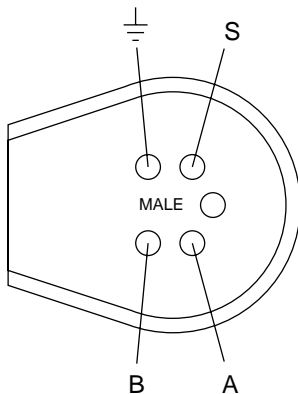
Connecting plug for Dutch variant



Connecting plug for Italian variant



Connecting plug for Belgian Variant



Gen.
Part

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Frequencies and Standards

Frequency Allocation

151 - 285 kHz	2001 - 1050 m	Long Wave
536 - 1605 kHz	560 - 189 m	Medium Wave
5,95 - 26,1 MHz	50 - 11,5 m	Short Wave
41 - 68 MHz	Channel Width 7 MHz	VHF-TV Band I
87,5 - 108 MHz	Channel Width 100 kHz	VHF-UKW Band II
174 - 223 MHz	Channel Width 7 MHz	VHF-TV Band III
470 - 606 MHz	Channel Width 8 MHz	UHF-TV Band IV
606 - 854 MHz	Channel Width 8 MHz	UHF-TV Band V

General Television Standards

Standard	Lines	Channel Width in MHz	Video Band-width 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

Picture frequency 50 Hz, only Standard M 60 Hz *) NTSC = 3,579 MHz

TV

Band IV/V - Standards for Europe and Africa (only 625 lines, 8 MHz channel bandwidth)

Standard	Video Band-width 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 carrier, please see Standard B, sound carrier relative to vision carrier + 6.5 MHz in each case.

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	Ch 8A	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			
D	175,25	181,25	Ch 21	471,25	477,25
E	183,25	189,25	Ch 22	479,25	485,25
F	191,25	197,25			
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 carrier, please see Standard B.
Sound carrier relative to vision carrier +6 MHz in each case.

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

TV

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
			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

TV

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
Egypt	B/H	SECAM	110-220	50
Ethiopia	B/G	PAL	220	50
Afghanistan	B	PAL	220	50
Albania	D	SECAM	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	240-250	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
Brazil	M	PAL	110-220	50-60
Brunei	B	PAL	230	50
Bulgaria	D/K	SECAM (B/Z)	220	50
Burkina Fasso (Upper Volta)	K'	SECAM	220	50
Burma	M	NTSC	220	50
Burundi	K	SECAM	220	50
Chile	M	NTSC	220	50
China (People's Republic)	D/K	PAL	220	50
Costa Rica	M	NTSC	120	60
Denmark	B/G	PAL	220	50
Germany	B/G	PAL	230	50
Diego Garcia	M	NTSC		
Djibouti	K'	SECAM	220	50
Dominican Republic	M	NTSC	110	60
Ecuador	M	NTSC	110-220	60
Ivory Coast	K'	SECAM (B)	220	50
El Salvador	M	NTSC	115	60
Fiji Islands	B	PAL	240	50
Finland	B/G	PAL	220	50
France	E/L	SECAM (Z)	110-220	50
Gabon	K'	SECAM	220	50
Ghana	B	PAL	220	50
Gibraltar	B/H	PAL	240	50
Greece	B/H	SECAM (Z)	220	50
Greenland	M	NTSC	220	50
Great Britain	A/I	PAL	210-240	50
Guadeloupe	K'	SECAM	220	50

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

Country	b/w	Colour	Mains Voltage Volt	Mains Frequency Hz
Guam	M	NTSC		
Guatemala	M	NTSC	110-220	60
Guinea Republic	K'	SECAM	220	50
Guayana (French)	K'	SECAM	220	50
GUS	D/K	SECAM (B/Z)	127-220	50
Haiti	M	NTSC	110-220	50-60
Hawaii	M	NTSC	115	60
Honduras	M	NTSC	110-220	60
Hong Kong	I	PAL	200	50
India	B	PAL	220-250	50
Indonesia	B	PAL	110-220	50
Iraq	B	SECAM (Z)	220	50
Iran	B/G	SECAM (Z)	220	50
Ireland (Republic)	I	PAL	220	50
Iceland	B/G	PAL	220	50
Israel	B/G	PAL	230	50
Italy	B/G	PAL	127-220	50
Jamaica	M	NTSC	220	50
Japan	M 1)	NTSC	100-200	50
Jordan	B/G	PAL	220	50
Virgin Islands	M	NTSC	120	60
Yugoslavia (former)	B/G	PAL	220	50
Cambodia	M		120-220	50
Cameroon	B/G	PAL	127-220	50
Canada	M	NTSC	120	60
Canary Islands	B/G	PAL	127-220	50
Kenya	B	PAL	240	50
Colombia	M	NTSC	110-220	60
Congo (Republic)	K'	SECAM	220	50
Korea (People's Republic)	D	SECAM	100-200	50
Korea (Republic)	M	NTSC	100	60
Cuba	M	NTSC	115-120	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	C/L	PAL/SECAM (Z)	120-220	50
Madagascar	K'	SECAM	127-220	50
Madeira	B	PAL	220	50
Malaysia	B/G	PAL	230-240	50
Maldiv Islands	B	PAL	230	50
Malta	B/H	PAL	240	50
Morocco	B/H	SECAM (B)	115-230	50
Martinique	K'	SECAM (B)	220	50
Mauritania	K'	SECAM	220	50
Mauritius	B	SECAM	230	50
Mexico	M	NTSC	110-220	60
Monaco	E/L/G	PAL/SECAM (B/Z)	127-220	50
Mongolia	D	SECAM (B/Z)	220	50
Mozambique	B	PAL	220	50

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

Country	b/w	Colour	Mains Voltage Volt	Mains Frequency Hz
New Caledonia	K'	SECAM	220	50
New Zealand	B1)	PAL	230	50
Nicaragua	M	NTSC	120	60
Netherlands	B/G	PAL	220	50
Netherlands Antilles	M	NTSC	115-223	50-60
Niger	K'	SECAM	220	50
Nigeria	B/I	PAL	230	50
Norway	B/G	PAL	230	50
Burkina Fasso	K'	SECAM	220	50
Oman	B/G	PAL	220	50
Austria	B/G	PAL	220	50
Pakistan	B	PAL	220-230	50
Panama	M	NTSC	115-230	60
Paraguay	N	NTSC	220	50
Peru	M	NTSC	110-220	60
Philippines	M	NTSC	110-220	60
Poland	D/K	SECAM (B/Z)	220	50
Portugal	B/G	PAL	110-220	50
Puerto Rico	M	NTSC	120	60
Quatar	B	PAL	240	50
Rwanda	K'	SECAM	220	50
Rumania	D/K	PAL	220	50
Zambia	B	PAL	220	50
Samoa	M	NTSC	230	50
Zanzibar	I	PAL	230	50
Saudi Arabia	B/G	PAL/SECAM (Z)	127-230	50-60
Sweden	B/G	PAL	127-220	50
Switzerland	B/G	PAL	220	50
Senegal	K'	SECAM	127-220	50
Sierra Leone	B	PAL	220	50
Singapore	B/G	PAL	230	50
Somalia	K'		110-230	50
Spain	B/G	PAL	127-220	50
Sri Lanka	B/H	PAL	230	50
St. Pierre and Miquel	K'	SECAM		
Republic of South Africa	I1)	PAL	220-230	50
Sudan	B	PAL	240	50
Surinam	M	NTSC	110-127	60
Swaziland	B/G	PAL	230	50
Syria	B/H	SECAM	115-220	50
Tahiti	K'	SECAM	120-240	60
Taiwan	M	NTSC	110-220	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
Chad	K'	SECAM	220	50
Czech / Slovakian Republic	D/K	PAL (F-1:SECAM)	220	50
Turkey	B/G	PAL	110-220	50
Tunisia	B/G	SECAM	127-220	50

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

Country	b/w	Colour	Mains Voltage Volt	Mains Frequency Hz
Uganda	B	PAL	240	50
Hungary	D/K	PAL	220	50
Uruguay	N	PAL	220	50
USA	M	NTSC	110	60
Venezuela	M	NTSC	120-240	60
United Arab Emirates	B/G	NTSC	220-240	50
Vietnam	D/M	NTSC	120-230	50
Yemen (Republic)	B	PAL	220	50
Zaire	K'	SECAM	220	50
Central African Republic	K	SECAM	220	50
Zimbabwe	B/G	PAL	220-230	50
Cyprus	B/G	SECAM (Z) + PAL	240	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-direct indicating Colour TVs and VCRs with Frequency Synthesizer and Cable Tuner

All German-speaking 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 the 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 "USB"
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 "OSB"
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	

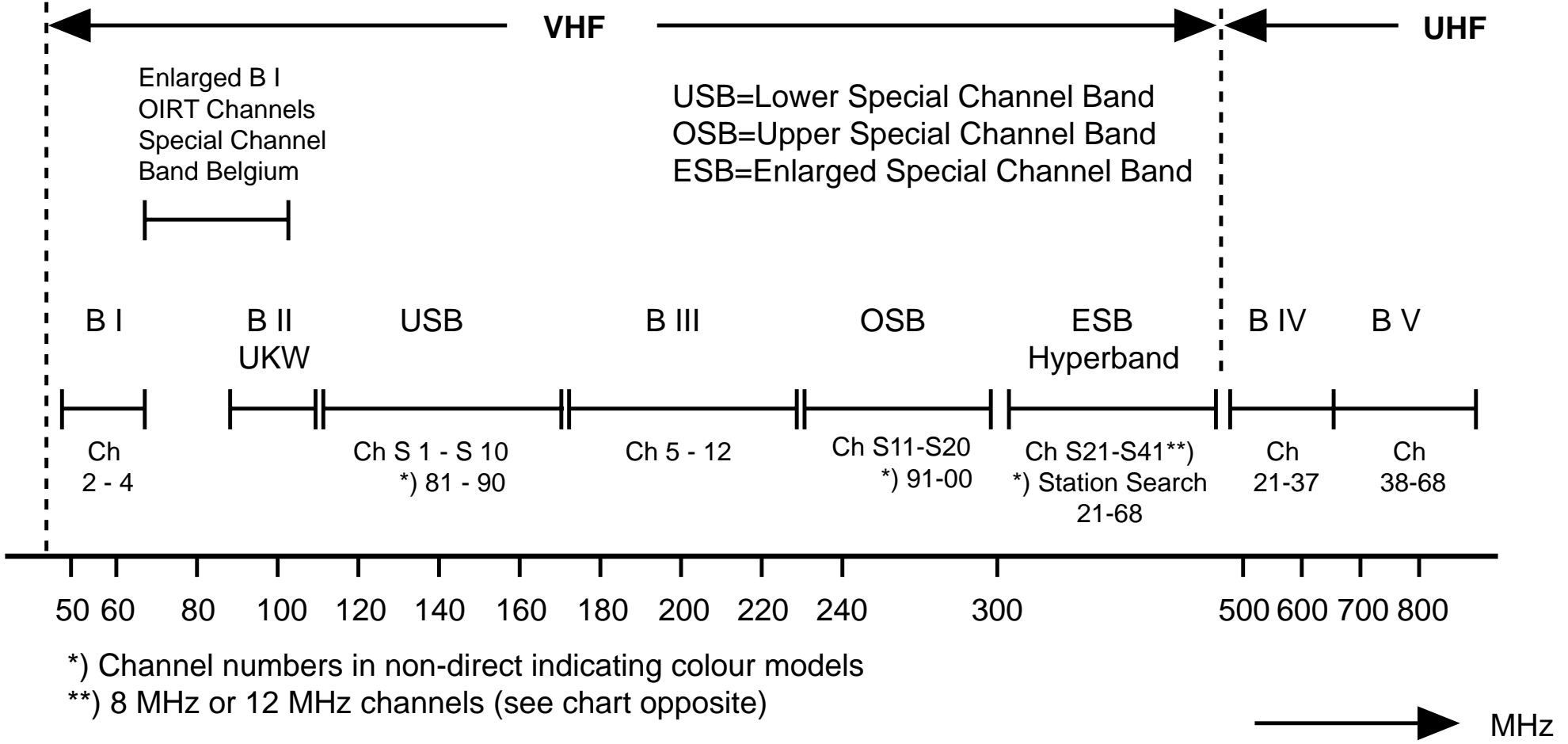
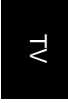
TV

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 Dentlein
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 1993/94 to 1997/98

in alphabetical order

TV Model	Chassis	Tele-Pilot®	Module Chart page
E 55-700 TOP/LOG TV-Max	CUC 6450 (Stereo)	TP 720	2.27
E 55-700/9 TOP/LOG TV-Max	CUC 6450 (Stereo)	TP 720	2.27
E 63-911 IDTV	CUC 1852 (digi 5)	TP 760	2.23
E 72-170 IDTV Elegance	CUC 1822 (digi 5)	TP 770	2.29
E 72-911 DPL	CUC 7861 (Stereo)	TP 760	2.25
E 72-911 DPL/IDTV	CUC 1861 (digi 5)	TP 770	2.29
E 72-911 IDTV	CUC 1852 (digi 5)	TP 760	2.25
E 72-911 TOP	CUC 7851 (Stereo)	TP 760	2.20/21
M 169-92 IDTV	CUC 1891 (16:9)	TP 661 TOP	2.20/21
M 45-775 TOP	CUC 5350 (Stereo)	TP 720	2.19
M 50-775 TOP	CUC 5350 (Stereo)	TP 720	2.19
M 55-105 IDTV	CUC 1800 (digi 5)	TP 760	2.23
M 55-105/9 IDTV	CUC 1800 (digi 5)	TP 760	2.23
M 55-280/8 IDTV/LOG	CUC 1805 (Basic)	TP 800	2.34
M 55-775 TOP	CUC 5360 (Stereo)	TP 720	2.19
M 55-775/8 TOP	CUC 5360 (Stereo)	TP 720	2.19
M 61-1690 DPL	CUC 6469 (Stereo)	TP 720	2.27
M 61-1690 TOP/LOG	CUC 6369 (Stereo)	TP 760	2.30
M 63-105 IDTV	CUC 1822 (digi 5)	TP 760	2.23
M 63-105/9 IDTV	CUC 1822 (digi 5)	TP 760	2.23
M 63-115/9 IDTV	CUC 1822 (digi 5)	TP 770	2.28
M 63-280 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.30
M 63-280/8 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.30
M 63-281 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.34
M 63-281/8 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.34
M 63-775 TOP	CUC 5365 (Stereo)	TP 760	2.19
M 63-775/8 TOP	CUC 5365 (Stereo)	TP 760	2.19
M 63-776/9 TOP	CUC 6365 (Stereo)	TP 720	2.28
M 63-795/9 TOP	CUC 7820 (Stereo)	TP 760	2.23
M 70-169/9 IDTV	CUC 1951 (digi 5)	TP 760	2.28
M 70-1690 DPL/IDTV	CUC 1961 (digi 5)	TP 770	2.28
M 70-1690 DPL/IDTV/LOG	CUC 1961 (digi 5)	TP 770	2.31
M 70-1690 TOP/LOG	CUC 6369 (Stereo)	TP 760	2.31
M 70-269 PALplus/LOG	CUC 1962 (digi 6)	TP 800	2.31
M 70-269/9 Referenz	CUC 1952 (digi 6)	TP 800	2.32/33
M 70-280 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.31
M 70-280/8 IDTV/LOG	CUC 1825 (Basic)	TP 800	2.31
M 70-281 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.35
M 70-281/8 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.35
M 72-100	CUC 1826 (Basic+)	TP 800	2.35
M 72-100/8	CUC 1826 (Basic+)	TP 800	2.35
M 72-105 IDTV	CUC 1852 (digi 5)	TP 760	2.20/21
M 72-105/9 IDTV	CUC 1852 (digi 5)	TP 760	2.20/21
M 72-105/9 IDTV/PIP	CUC 1852 (digi 5)	TP 760	2.25
M 72-115 IDTV	CUC 1852 (digi 5)	TP 770	2.29
M 72-215 IDTV/Referenz	CUC 1852 (digi 5+)	TP 770	2.29
M 72-215/9 IDTV/PIP/Referenz	CUC 1852 (digi 5+)	TP 770	2.29
M 72-270 IDTV/LOG Elegance	CUC 1826 (Basic+)	TP 800	2.35
M 72-315 IDTV/Referenz	CUC 1852 (digi 5+)	TP 771	2.31
M 72-315/9 IDTV/PIP/Referenz	CUC 1852 (digi 5+)	TP 771	2.31
M 72-410 Reference	CUC 1842 (digi 6)	TP 800	2.35
M 72-410 Reference/PIP	CUC 1842 (digi 6)	TP 800	2.35
M 72-410/9 Reference	CUC 1842 (digi 6)	TP 800	2.35
M 72-795 TOP	CUC 7851 (Stereo)	TP 760	2.20/21
M 72-795/9 TOP	CUC 7851 (Stereo)	TP 760	2.20/21
M 82-105/9 IDTV	CUC 1881 (digi 4)	TP 760	2.20/21
M 82-105/9 IDTV/PIP	CUC 1882 (digi 5)	TP 760	2.25
M 82-115/9 IDTV/PIP	CUC 1882 (digi 5)	TP 770	2.29
M 82-169 a PALplus	CUC 1981 (digi 4)	TP 760	2.32/33
M 82-169 PAL PLUS	CUC 1981 (digi 4)	TP 760	2.25
M 82-169/9 IDTV	CUC 1982 (digi 5)	TP 760	2.29

TV

TV Model	Chassis	Tele-Pilot®	Module Chart page
M 82-1690/9 TOP/LOG	CUC 6368 (Stereo)	TP 760	2.32/33
M 82-269 PALplus/LOG	CUC 1983 (digi 6)	TP 800	2.32/33
M 82-269/9 Reference	CUC 1984 (digi 6)	TP 800	2.32/33
M 82-795 TOP	CUC 7880 (Stereo)	TP 760	2.20/21
M 82-795/9 PIP/TOP	CUC 7880 (Stereo)	TP 760	2.20/21
M 84-410/8 IDTV/LOG	CUC 1827 (Basic+)	TP 800	2.32/33
M 95-105/9 IDTV	CUC 1892 (digi 4)	TP 760	2.22
M 95-105/9 IDTV/PIP	CUC 1893 (digi 5)	TP 760	2.25
M 95-115/9 IDTV/PIP	CUC 1893 (digi 5)	TP 770	2.29
M 95-410/9 a Reference/PIP	CUC 1894 (digi 6)	TP 800	2.35
M 95-410/90 Referenz	CUC 1894 (digi 6)	TP 800	2.32/33
M 95-795/9 PIP/TOP	CUC 7890 (Stereo)	TP 760	2.22
MW 70-100/8	CUC 1828 (Basic++)	TP 800	2.35
MW 70-269 PAL PLUS	CUC 1952 (digi 6)	TP 800	2.35
MW 82-100/9	CUC 1984 (digi 6)	TP 800	2.35
MW 82-100/9 PAL PLUS	CUC 1983 (digi 6)	TP 800	2.35
MW 82-2690 NIC/TOP	CUC 2058N (Stereo)	TP 800	2.35
P 37-060	CUC 6300 (Mono)	TP 610	2.19
P 37-065	G 1000	TRC 1	2.27
P 37-065/5	CUC 7301 (Mono)	TP 711	2.30
P 37-070	CUC 7301 (Mono)	TP 711	2.27
P 37-071	CUC 7303 (Mono)	TP 711	2.30
P 37-640 text	CUC 6300 (Mono)	TP 720	2.19
P 37-730 text	CUC 7301 (Mono)	TP 711	2.27
P 37-731 text	CUC 7303 (Mono)	TP 711	2.30
P 37-731/12 text	CUC 7305 (Mono)	TP 711	2.30
P 37-732/5 text	CUC 7303 (Mono)	TP 711	2.34
P 37-740 SAT	CUC 7300 (Mono)	TP 720	2.23
P 37-740 TOP	CUC 7300 (Mono)	TP 720	2.23
P 37-843 FR	CUC 7301 F (Mono)	TP 711	2.27
P 37-845	CUC 7300 F (Mono)	TP 720	2.27
P 37-845 FR/SAT	CUC 7300 F (Mono)	TP 720	2.27
P 3770 text	G 1000	TRC 1	2.27
P 40-060	CUC 6300 (Mono)	TP 710	2.19
P 40-64 FR/FM/CL	CUC 6301 F (Mono)	TP FM/CL	2.27
P 40-64/4 FM/CL	CUC 6301 (Mono)	TP FM/CL	2.27
P 40-640 text	CUC 6300 (Mono)	TP 720	2.19
P 40-740 TOP	CUC 7300 (Mono)	TP 720	2.23
P 42-060	CUC 6300 (Mono)	TP 710	2.19
P 45-640 text	CUC 6300 (Mono)	TP 720	2.19
P 45-731 text	CUC 7303 (Mono)	TP 711	2.30
P 45-740 TOP	CUC 7300 (Mono)	TP 720	2.23
P 45-845 FR	CUC 7300 F (Mono)	TP 720	2.27
P 50-640 text	CUC 6300 (Mono)	TP 720	2.19
ST 55-750 text	CUC 7350 (Stereo)	TP 720	2.27
ST 55-750/9 text	CUC 7350 (Stereo)	TP 720	2.27
ST 55-800 a text	CUC 2020 (Stereo)	TP 715	2.34
ST 55-800 NIC/TOP	CUC 2020N (Stereo)	TP 715	2.34
ST 55-800 text	CUC 7350 (Stereo)	TP 712	2.34
ST 55-800/9 text	CUC 7350 (Stereo)	TP 712	2.34
ST 55-876/9 text	CUC 7350 (Stereo)	TP 720	2.30
ST 55-95 ECO	CUC 7350 (Stereo)	TP 712	2.30
ST 63-160 a IDTV	CUC 1822 (digi 5)	TP 760	2.30
ST 63-160 IDTV	CUC 1822 (digi 5)	TP 760	2.23
ST 63-255 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.30
ST 63-255/8 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.30
ST 63-651/9 TOP	CUC 6360 (Stereo)	TP 720	2.23
ST 63-671 text	CUC 5361 (Stereo)	TP 720	2.19
ST 63-700 FR/TOP	CUC 2030F (Stereo)	TP 713/715	2.34
ST 63-700 NIC/TOP	CUC 2030N (Stereo)	TP 713/715	2.34
ST 63-700 text	CUC 2030 (Stereo)	TP 713/715	2.34
ST 63-720/8 text	CUC 6330 (Stereo)	TP 711	2.30
ST 63-725/8 text	CUC 6330 (Stereo)	TP 712	2.30
ST 63-750 text	CUC 6330 (Stereo)	TP 720	2.28

TV Model	Chassis	Tele-Pilot®	Module Chart page
ST 63-750/9 TOP	CUC 6360 (Stereo)	TP 720	2.28
ST 63-755 TOP	CUC 6360 (Stereo)	TP 720	2.23
ST 63-755/9 TOP	CUC 6360 (Stereo)	TP 720	2.23
ST 63-760 TOP	CUC 5365 (Stereo)	TP 720	2.23
ST 63-760/8 TOP	CUC 5365 (Stereo)	TP 720	2.23
ST 63-760/9 DPL	CUC 7861 (Stereo)	TP 760	2.23
ST 63-761 TOP	CUC 6365 (Stereo)	TP 720	2.23
ST 63-761/9 TOP	CUC 6365 (Stereo)	TP 720	2.23
ST 63-780 NIC/TOP	CUC 2030N (Stereo)	TP 715	2.34
ST 63-780 text	CUC 2030 (Stereo)	TP 713/715	2.34
ST 63-781 IDTV	CUC1823 (digi 5)	TP 760	2.23
ST 63-800 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.30
ST 63-800/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.30
ST 70-100 IDTV	CUC 1824 (digi 5)	TP 760	2.28
ST 70-150 IDTV	CUC 1824 (digi 5)	TP 760	2.28
ST 70-155 IDTV	CUC 1824 (digi 5)	TP 760	2.24
ST 70-155/9 IDTV	CUC 1824 (digi 5)	TP 760	2.24
ST 70-160 IDTV	CUC 1824 (digi 5)	TP 760	2.28
ST 70-160/9 IDTV	CUC 1824 (digi 5)	TP 760	2.28
ST 70-169 TOP	CUC 7951 (Stereo)	TP 760	2.19
ST 70-169/9 TOP	CUC 7951 (Stereo)	TP 760	2.19
ST 70-255 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.30
ST 70-255/8 IDTV/LOG	CUC 1825 (Basic)	TP 771	2.30
ST 70-270 IDTV	CUC 1825 (Basic)	TP 800	2.34
ST 70-270/8 IDTV	CUC 1825 (Basic)	TP 800	2.34
ST 70-650/8 text	CUC 5360 (Stereo)	TP 720	2.20/.21
ST 70-651/9 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 70-655/8 text	CUC 5360 (Stereo)	TP 720	2.20/.21
ST 70-665 text	CUC 5360 (Stereo)	TP 720	2.20/.21
ST 70-675 TOP	CUC 5361 (Stereo)	TP 663	2.24
ST 70-700 DPL/NIC/FT	CUC 2040N (Stereo)	TP 715	2.34
ST 70-700 FR/TOP	CUC 2030F (Stereo)	TP 713/715	2.34
ST 70-700 NIC/TOP	CUC 2030N (Stereo)	TP 713/715	2.34
ST 70-700 text	CUC 2030 (Stereo)	TP 713/715	2.34
ST 70-705 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 70-705/8 text	CUC 6330 (Stereo)	TP 712	2.30
ST 70-705/9 TOP	CUC 6360 (Stereo)	TP 720	2.28
ST 70-705/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.30
ST 70-720/8 text	CUC 6330 (Stereo)	TP 712	2.30
ST 70-725/8 text	CUC 6330 (Stereo)	TP 712	2.31
ST 70-728 text	CUC 6330 (Stereo)	TP 712	2.31
ST 70-745 text	CUC 6330 (Stereo)	TP 720	2.28
ST 70-750 text	CUC 6330 (Stereo)	TP 720	2.28
ST 70-750/9 TOP	CUC 6360 (Stereo)	TP 720	2.28
ST 70-755 SAT	CUC 6360 (Stereo)	TP 720	2.24
ST 70-755 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 70-755 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.28
ST 70-755/9 DPL	CUC 6460 (Stereo)	TP 720	2.28
ST 70-755/9 DPL/LOG	CUC 6460 (Stereo)	TP 720	2.31
ST 70-755/9 TOP	CUC 6360 (Stereo)	TP 720	2.24
ST 70-755/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.28
ST 70-760 TOP/LOG	CUC 6361 (Stereo)	TP 720	2.31
ST 70-770 text	CUC 6330 (Stereo)	TP 712	2.34
ST 70-778 text	CUC 6330 (Stereo)	TP 712	2.34
ST 70-780 FR/TOP	CUC 2030F (Stereo)	TP 713/715	2.34
ST 70-780 NIC/TOP	CUC 2030N (Stereo)	TP 715	2.34
ST 70-780 text	CUC 2030 (Stereo)	TP 715	2.34
ST 70-800 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.31
ST 70-800/9 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.31
ST 70-869 IDTV	CUC 1825 (Basic)	TP 800	2.31
ST 70-907 text	CUC 5360 (Stereo)	TP 720	2.24
ST 70-93 text	CUC 5360 (Stereo)	TP 720	2.20/.21
ST 70-94 text	CUC 5360 (Stereo)	TP 720	2.24
ST 70-95 TOP	CUC 6360 (Stereo)	TP 720	2.28

TV Model	Chassis	Tele-Pilot®	Module Chart page
ST 70-97 IDTV	CUC 1825 (Basic)	TP 771	2.34
ST 7003	CUC 5360 (Stereo)	TP 720	2.20/.21
ST 7004	CUC 6360 (Stereo)	TP 720	2.24
ST 7004/9	CUC 6360 (Stereo)	TP 720	2.24
ST 72-160 IDTV	CUC 1822 (digi 5)	TP 760	2.20/.21
ST 72-160/9 IDTV	CUC 1822 (digi 5)	TP 760	2.24
ST 72-161 IDTV	CUC 1822 (digi 5)	TP 760	2.28
ST 72-161/9 IDTV	CUC 1822 (digi 5)	TP 760	2.28
ST 72-261 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.31
ST 72-261/8 IDTV/LOG	CUC 1826 (Basic+)	TP 800	2.31
ST 72-760 MD/TOP	CUC 5365 (Stereo)	TP 720	2.24
ST 72-760 text	CUC 6331 (Stereo)	TP 720	2.32/.33
ST 72-760 TOP	CUC 5365 (Stereo)	TP 720	2.20/.21
ST 72-760/8 text	CUC 6331 (Stereo)	TP 720	2.32/.33
ST 72-760/8 TOP	CUC 5365 (Stereo)	TP 720	2.20/.21
ST 72-760/9 DPL	CUC 7861 (Stereo)	TP 760	2.24
ST 72-761 SAT	CUC 6365 (Stereo)	TP 720	2.28
ST 72-761 TOP	CUC 6365 (Stereo)	TP 720	2.24
ST 72-761/9 TOP	CUC 6365 (Stereo)	TP 720	2.24
ST 72-762 TOP	CUC 6365 (Stereo)	TP 720	2.28
ST 72-762/9 TOP	CUC 6365 (Stereo)	TP 720	2.28
ST 72-764 MD/SAT	CUC 7820 (Stereo)	TP 720	2.25
ST 72-764 SAT	CUC 7820 (Stereo)	TP 720	2.20/.21
ST 72-860 FR/TOP	CUC 2031F (Stereo)	TP 800/715	2.35
ST 72-860 NIC/TOP	CUC 2031N (Stereo)	TP 800	2.35
ST 72-860 TOP	CUC 2031 (Stereo)	TP 800	2.35
ST 72-865 NIC/TOP	CUC 2031N (Stereo)	TP 800	2.35
ST 8277 TOP	CUC 7880 (Stereo)	RC 760	2.20/.21
ST 84-796/9 TOP/LOG	CUC 6380 (Stereo)	TP 720	2.29
STEELER	CUC 6300 (Mono)	TP 720/ TP 760 HiFi	2.22
T 51-060	CUC 6300 (Mono)	TP 710	2.19
T 51-070	CUC 7301 (Mono)	TP 711	2.30
T 51-071	CUC 7303 (Mono)	TP 711	2.34
T 51-640 text	CUC 6300 (Mono)	TP 720	2.19
T 51-711 text	CUC 7301 (Mono)	TP 711	2.27
T 51-730 text	CUC 7301 (Mono)	TP 711	2.27
T 51-730/5 text	CUC 7301 (Mono)	TP 711	2.27
T 51-731 text	CUC 7303 (Mono)	TP 711	2.30
T 51-732/5 text	CUC 7303 (Mono)	TP 711	2.30
T 55-060	CUC 6300 (Mono)	TP 710	2.19
T 55-64 FR/FM/CL	CUC 6301 F (Mono)	TP FM/CL	2.27
T 55-64/4 FM/CL	CUC 6301 (Mono)	TP FM/CL	2.27
T 55-640 text	CUC 6300 (Mono)	TP 720	2.19
T 55-645 text	G 1000	TRC 1	2.27
T 55-730 text	CUC 7301 (Mono)	TP 711	2.27
T 55-730/5 text	CUC 7301 (Mono)	TP 711	2.27
T 55-731 text	CUC 7303 (Mono)	TP 711	2.30
T 55-732/5 text	CUC 7303 (Mono)	TP 711	2.30
T 55-740 SAT	CUC 7300 (Mono)	TP 720	2.23
T 55-740 TOP	CUC 7300 (Mono)	TP 720	2.23
T 55-843 FR	CUC 7301 F (Mono)	TP 711	2.30
T 55-845 FR	CUC 7300 F (Mono)	TP 720	2.27
T 5570 text	G 1000	TRC 1	2.27
T 63-640 a text	CUC 6310 (Mono)	TP 720	2.19
T 70-640 a text	CUC 6310 (Mono)	TP 720	2.19
T 70-740 text	CUC 6310 (Mono)	TP 720	2.28
T 70-740/4 TOP	CUC 6310 (Mono)	TP 720	2.28
T 70-843 FR	CUC 6310 F (Mono)	TP 720	2.31
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 5100	1 Tuner (Mono)	TVP 762/763	
TVR 5500	2 Tuner (Mono)	TVP 762/860	

TV

TV Model	Chassis	Tele-Pilot®	Module Chart page
XC 701	CUC 5360 (Stereo)	TP 720	2.22
XS 55	CUC 5350 (Stereo)	TP 720	2.22
XS 55/1	CUC 7350 (Stereo)	TP 720	2.29
XS 55/8	CUC 5350 (Stereo)	TP 720	2.22
XS 55/9	CUC 7350 (Stereo)	TP 720	2.29
XS 63	CUC 5360 (Stereo)	TP 720	2.22
XS 63/1	CUC 6360 (Stereo)	TP 720	2.26
XS 63/2	CUC 6330 (Stereo)	TP 720	2.29
XS 63/8	CUC 5360 (Stereo)	TP 720	2.22
XS 63/81	CUC 6330 (Stereo)	TP 712	2.32/.33
XS 63/9	CUC 6360 (Stereo)	TP 720	2.26
XS 70/1	CUC 6360 (Stereo)	TP 720	2.26
XS 70/8	CUC 5360 (Stereo)	TP 720	2.22
XS 70/81	CUC 6330 (Stereo)	TP 712	2.32/.33
XS 70/9	CUC 6360 (Stereo)	TP 720	2.26

Chassis Chart of City-Line/Super Elite TV Receivers

Models produced from 1993/94 to 1997/98

in alphabetical order

TV Model	Chassis	Tele-Pilot®	Module Chart page
Athen T 1655 text	CUC 6300 (Mono)	TP 720	2.22
Athen T 755 TOP	CUC 7300 (Stereo)	TP 720	2.26
Atlanta 72 IDTV ST 172 IDTV	CUC 1822 (digi 5)	TP 760	2.22
Atlanta 72/9 IDTV ST 172/9	CUC 1822 (digi 5)	TP 760	2.26
Atlanta SE 7220 a IDTV/LOG	CUC 1830 (Basic++)	TP 900	2.36
Atlanta SE 7220 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.36
Atlanta SE 7289 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.32/.33
Berlin SE 70-100/8	CUC 1828 (Basic++)	TP 900	2.36
Berlin SE 7290 IDTV/LOG	CUC 1822 (digi 5)	TP 771	2.32/.33
Boston SE 7090 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.36
Boston SE 7090/8 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.36
Boston ST 170 IDTV	CUC 1824 (digi 5)	TP 760	2.29
Boston ST 270 IDTV/LOG	CUC 1825 (Basic)	TP 900	2.32/.33
Boston ST 270/8 IDTV/LOG	CUC 1825 (Basic)	TP 900	2.32/.33
Copenhagen ST 1663 text	CUC 5360 (Stereo)	TP 720	2.22
Copenhagen ST 1663/8 text	CUC 5360 (Stereo)	TP 720	2.22
Copenhagen ST 763 TOP	CUC 6360 (Stereo)	TP 720	2.26
Copenhagen ST 763 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.32/.33
Copenhagen ST 763/9 TOP	CUC 6360 (Stereo)	TP 720	2.26
Denver SE 82-100 PAL PLUS	CUC 1984 (digi 6)	TP 900	2.36
Denver SE 8216/9 PAL PLUS	CUC 1984 (digi 6)	TP 900	2.36
Denver SE 8216/9 PIP Referenz	CUC 1984 (digi 6)	TP 900	2.32/.33
Greenville 37 SP 737 text	CUC 7350 (Stereo)	TP 720	2.29
Greenville 55 T 5574 TOP	CUC 7300 (Mono)	TP 720	2.29
Greenville 70 ST 1770 TOP	CUC 6360 (Stereo)	TP 720	2.29
Greenville 7002 text	CUC 6330 (Stereo)	TP 900	2.32/.33
Greenville 7002/8 text	CUC 6330 (Stereo)	TP 900	2.32/.33
Greenville 7003 NIC/TOP	CUC 2030N (Stereo)	TP 900	2.36
Greenville 7003 text	CUC 2030 (Stereo)	TP 900	2.36
Hamburg ST 770/9 TOP	CUC 6360 (Stereo)	TP 720	2.29
Helsinki P 642 text	CUC 6300 (Mono)	TP 720	2.26
Lissabon SE 5576 text	CUC 7350 (Stereo)	TP 720	2.32/.33
Melbourne SE 7210 NIC/TOP	CUC 2031N (Stereo)	TP 900	2.36
Melbourne SE 7210 TOP	CUC 2031 (Stereo)	TP 900	2.36
Salzburg ST 770 TOP	CUC 6360 (Stereo)	TP 720	2.26
SE 4264 text	CUC 6300 (Mono)	TP 720	2.22
SE 5564 text	CUC 6300 (Mono)	TP 720	2.22
SE 5574 TOP	CUC 7300 (Mono)	TP 720	2.26
SE 6367 text	CUC 5360 (Stereo)	TP 720	2.22
SE 6376 TOP	CUC 6360 (Stereo)	TP 720	2.26
SE 6376 TOP/LOG	CUC 6360 (Stereo)	TP 720	2.32/.33
SE 7075 text	CUC 5361 (Stereo)	TP 720	2.22
SE 7085 text	CUC 5360 (Stereo)	TP 720	2.22
SE 7087 TOP	CUC 6360 (Stereo)	TP 720	2.26
SE 7088 IDTV	CUC 1824 (digi 5)	TP 760	2.29
SE 7089 IDTV/LOG	CUC 1825 (Basic)	TP 900	2.32/.33
SE 7286 TOP	CUC 5365 (Stereo)	TP 720	2.22
SE 7287 TOP	CUC 6365 (Stereo)	TP 720	2.26
SE 7288 IDTV	CUC 1852 (digi 5)	TP 760	2.22
SE 7288/9 IDTV	CUC 1852 (digi 5)	TP 760	2.26
Stockholm ST 2670 text	CUC 5361 (Stereo)	TP 720	2.22
Stockholm ST 3670 text	CUC 5360 (Stereo)	TP 720	2.22
Sydney 100 SE 7020 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.36
Sydney 100/8 SE 7020/8 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.36
Sydney 72 ST 1772 TOP	CUC 6365 (Stereo)	TP 720	2.26
Sydney 72 ST 1772/9 TOP	CUC 6365 (Stereo)	TP 720	2.26
Sydney 72 ST 772 TOP	CUC 5365 (Stereo)	TP 720	2.22
Sydney 72 ST 772/8 TOP	CUC 5365 (Stereo)	TP 720	2.26
Sydney ST 872/8 text	CUC 6331 (Stereo)	TP 900	2.32/.33
Tivoli T 655 TOP	CUC 5301 (Mono)	TP 623	2.26
Trento SE 7016/9 PIP Referenz	CUC 1952 (digi 6)	TP 900	2.32/.33
Trento SE 7026 PAL PLUS	CUC 1952 (digi 6)	TP 900	2.36
Wien 100 SE 6320 IDTV/LOG	CUC 1826 (Basic+)	TP 900	2.36

TV

Module Chart of 1993/1994 Television Receivers

Bezeichnung Designation	Sachnummer Part No.																									
		P 37-060	P 37-640 text	P 40-060	P 40-640 text	P 42-060	P 45-640 text	M 45-775 TOP	P 50-640 text	M 50-775 TOP	T 51-060	T 51-640 text	T 55-060	T 55-640 text	M 55-775 TOP	M 55-775/8 TOP	T 63-640 a text	ST 63-671 text	M 63-775 TOP	M 63-775/8 TOP	T 70-640 a text	ST 70-169 TOP	ST 70-169/9 TOP			
Display	29501-080.05																									
Keyboard Control	29501-080.01																									
Keyboard Control	29501-080.27				●		●			●								●					●			
Keyboard Control	29501-080.35								●		●															
Keyboard Control	29501-080.41												●	●												
Keyboard Control	29501-080.44					●																				
Keyboard Control	29501-080.49														●	●										
Keyboard Control	29501-080.51																		●	●						
Keyboard Control	29501-074.88																		●							
CRT Panel	29305-022.01								●		●														●	●
CRT Panel	29305-022.06	●	●																							
CRT Panel	29305-022.07		●	●	●	●			●		●	●	●	●												
CRT Panel	29305-022.21																	●					●			
CRT Panel	29305-022.25																		●	●						
CRT Panel	29305-022.27																							●	●	
CRT Panel	29305-022.42														●	●										
CRT Panel	29305-022.74																		●							
EURO-AV Socket pcb	29304-060.32																							●	●	
Colour/RGB (PAL/CTI)	29504-105.49																		●							
Colour/RGB (PAL/SECAM)	29504-105.54								●		●				●					●						
Colour/RGB Multi	29504-165.54															●					●					
Colour-Sync	29504-165.55																							●	●	
Formatting Module	29504-106.10																							●	●	
Cable Tuner	29504-101.22								●		●				●	●			●	●	●	●	●	●	●	●
Cable Tuner	29504-201.01	●	●	●	●	●			●		●	●	●	●			●					●				
AF-Stereo 100 W	29504-104.62																							●	●	
TP 710	29622-059.09	●		●	●						●		●													
TP 720	29622-059.06		●		●		●	●	●	●		●	●	●	●	●	●	●	●	●			●			
TP 760	29622-059.01																			●	●			●	●	
Teletext VT 5336	29504-108.76															●										
Teletext VT 5336 VPS	29504-108.86								●		●				●					●						
IF-Sync Stereo	29504-102.18																		●							
IF-Stereo	29504-102.20/.30								●		●				●						●					
IF-Stereo	29504-102.33																							●		
IF-Multi Stereo (CUC 7...)	29504-162.43																									●
IF-Stereo (EURO-Multi 8)	29504-162.41															●						●				

TV

Module Chart of 1993/1994 Television Receivers

Bezeichnung Designation	Sachnummer Part No.	ST 70-665 text	ST 70-655/8 text	ST 70-93 text	ST 7003	ST 72-760 TOP	ST 72-760/8 TOP	ST 72-764 SAT	ST 72-160 IDTV	M 72-105 IDTV	M 72-105/9 IDTV	M 72-795 TOP	M 72-795/9 TOP	E 72-911 TOP	ST 8277 TOP	M 82-795 TOP	M 82-795/9 PIP/TOP	M 82-105/9 IDTV
Tuning Module	29504-103.52							●										
Tuning Module with Teletext	29504-103.63								●									
Display	29501-080.07															●	●	
Display	29501-080.25														●			
Display	29501-080.48													●				
Display	29501-074.90																	●
Keyboard Control	29501-080.17				●													
Keyboard Control	29501-080.29											●	●					
Keyboard Control	29501-080.30									●	●							
Keyboard Control	29501-080.39					●	●											
Keyboard Control	29501-080.45							●										
Keyboard Control	29501-080.50								●									
Keyboard Control	29501-074.68		●															
Keyboard Control	29501-074.88	●																
CRT Panel	29304-070.76																	●
CRT Panel	29305-022.25					●	●											
CRT Panel	29305-022.26							●				●	●	●				
CRT Panel	29305-022.29														●	●	●	
CRT Panel	29305-022.31								●	●	●							
CRT Panel	29305-022.42	●	1)	●	●													
CRT Panel	29305-022.62		1)															
Socket pcb	29304-060.32													●	●	●	●	
Socket pcb	29304-060.33											●	●					
Socket pcb	29304-060.93																	●
Socket pcb	29305-160.01							●										
Socket pcb	29305-160.05								●	●								
Socket pcb	29305-160.06								●									
Colour/RGB (PAL/CTI)	29504-105.49	●		●	●													
Colour/RGB (PAL/SECAM)	29504-105.54					●												
Colour-Sync	29504-165.53														●	●		
Colour/RGB	29504-165.54		●				●											
Colour-Sync	29504-165.60																●	
Colour-Sync	29504-165.61							●			●	●	●					
Feature Box	29504-103.08																	●
Feature Box	29504-103.32								●	●	●							
Cable Tuner	29504-101.22	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cable Tuner	29504-201.01								●	●	●							
TV-SAT Tuner	29504-201.61							●										
LNC-Power Supply	29305-106.11							●										
AF-Stereo 100 W	29504-104.54																	●
AF-Stereo 2 x 25 W	29504-104.56							●	●									
AF-Stereo 100 W	29504-104.62								●	●	●	●	●	●	●	●	●	
East/West	29504-107.88								●	●	●							

1) optionally fitted



Module Chart of 1993/1994 Television Receivers / cont'd

Bezeichnung Designation	Sachnummer Part No.	ST 70-665 text	ST 70-655/8 text	ST 70-93 text	ST 7003	ST 72-760 TOP	ST 72-760/8 TOP	ST 72-764 SAT	ST 72-160 IDTV	M 72-105 IDTV	M 72-105/9 IDTV	M 72-795 TOP	M 72-795/9 TOP	E 72-911 TOP	ST 8277 TOP	M 82-795 TOP	M 82-795/9 PIP/TOP	M 82-105/9 IDTV
PIP-Colour Multi	29504-165.93																●	
PIP-Tuner/IF	29504-101.51																●	
SAT Unit	29504-106.21							●										
TP 720	29622-059.06	●	●	●	●	●	●	●										
TP 760	29622-059.01								●	●	●	●	●	●	1)	●	●	●
Video	29504-165.63								●	●	●							
Video	29504-105.71																	●
Teletext VT 5336	29504-108.76						●											
Teletext VT 5336 VPS	29504-108.86					●								●				
Teletext digi 4 TOP	29504-108.80																	●
IF-Sync-Stereo	29504-102.18	●	●	●														
IF-Sync-Stereo	29504-102.20/.30					●												
IF-Stereo	29504-102.33							●	●	●		●			●	●		
IF-Stereo (EURO-Multi 8)	29504-162.41		●				●											
IF-Stereo (CUC 7...)	29504-162.43									●		●	●				●	
IF-Stereo (digi 4)	29504-162.44																	●

1) RC 760 29622-059.02



Module Chart of 1993/1994 Television Receivers

Bezeichnung Designation	Sachnummer Part No.	M 95-795/9 PIP/TOP	M 95-105/9 IDTV	T 1655 text ATHEN	ST 1663 text COPENHAGEN	ST 1663/8 text COPENHAGEN	ST 2670 text STOCKHOLM	ST 3670 text STOCKHOLM	ST 772 TOP Sydney 72	ST 172 IDTV Atlanta 72 IDTV	SE 4264 text	SE 5564 text	SE 6367 text	SE 7075 text	SE 7085 text	SE 7286 TOP	SE 7288 IDTV	STEELER	XS 55	XS 55/8	XS 63	XS 63/8	XS 70/8	XC 701		
Display	29501-080.03																								●	
Display	29501-080.07	●																								
Display	29501-074.90		●																							
Keyboard Control	29501-080.17																				●	●	●	●	●	
Keyboard Control	29501-080.24																									
Keyboard Control	29501-080.44										●															
Keyboard Control	29501-080.46									●																
Keyboard Control	29501-080.47								●																	
Keyboard Control	29501-074.66												●													
Keyboard Control	29501-074.86				●	●																				
CRT Panel	29304-070.77		●																							
CRT Panel	29305-022.01																				●	●				
CRT Panel	29305-022.06																				●					
CRT Panel	29305-022.07			●								●	●													
CRT Panel	29305-022.24								●																	
CRT Panel	29305-022.30	●																								
CRT Panel	29305-022.37									●																
CRT Panel	29305-022.42				●	●		●					●		●								●	●	●	●
CRT Panel	29305-022.43						●							●												
EURO-AV Socket pcb	29304-060.32	●																								
EURO-AV Socket pcb	29304-060.93		●																							
EURO-AV Socket pcb	29305-160.05									●																
Colour/RGB (PAL/CTI)	29504-105.49				●		●	●					●	●	●					●		●			●	
Colour/RGB (PAL/SECAM)	29504-105.54								●								●									
Colour/RGB Multi	29504-165.54					●																●		●	●	
Colour-Sync.	29504-165.60	●																								
Feature Box	29504-103.08		●																							
Feature Box	29504-103.32									●											●					
Velocity Modulation board	29305-108.03									●																
Cable Tuner	29504-101.22	●	●		●	●	●	●	●				●	●	●	●	●				●	●	●	●	●	●
Cable Tuner	29504-201.01			●						●	●	●									●	●				
AF-Stereo 2 x 25 W	29504-104.26									●																
AF-Stereo 100 W	29504-104.54		●																							
East/West	29504-107.89									●																
PIP Colour Multi	29504-165.93	●																								
PIP Tuner/IF Multi	29504-101.51	●																								
TP 720	29622-059.06			●	●	●	●	●	●		●	●	●	●	●	●	●		●	●	●	●	●	●	●	●
TP 760	29622-059.01	●	●							●																
Video	29504-165.63									●																
Video	29504-105.71		●																							
Teletext VT 5336 VPS	29504-108.86																●									
Teletext digi 4 TOP	29504-108.80		●																							
IF-Sync Stereo	29504-102.18				●		●	●					●	●	●						●		●		●	
IF-Sync Stereo	29504-102.20/.30								●								●									
IF-Stereo	29504-102.33									●								●								
IF-Stereo (EURO-Multi 8)	29504-162.41					●																●		●	●	
IF-Multi Stereo (CUC 7...)	29504-162.43	●																								
IF-Stereo Multi (digi 4)	29504-162.44		●																							

Module Chart of 1994/1995 Television Receivers

Bezeichnung Designation	Sachnummer 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	29504-103.57																					
Tuning Module	29504-103.63							•	•	•										•			•	•
Tuning Module	29504-103.71/.77 1)										•	•	•											
Tuning Module	29504-103.74																		•					
Display	29501-080.59																				•			
Keyboard Control	29501-080.39													•	•									
Keyboard Control	29501-080.50									•						•							•	•
Keyboard Control	29501-080.52																				•		•	•
Keyboard Control	29501-080.63																				•			
Keyboard Control	29501-080.65																			•				
Keyboard Control	29501-080.67											•	•											
Keyboard Control	29501-080.71										•													
Keyboard Control	29501-080.78																	•	•					
Keyboard Control	29501-080.85							•	•															
CRT Panel	29305-022.11	•	•	•																				
CRT Panel	29305-022.12			•	•	•																		
CRT Panel	29305-022.22													•	•									
CRT Panel	29305-022.26															•					•			
CRT Panel	29305-022.89							•	•															
CRT Panel	29305-022.38									•												•	•	•
CRT Panel	29305-022.39																			•				
CRT Panel	29305-022.44										•	•	•											
CRT Panel	29305-022.75																•	•						
EURO-AV Socket pcb	29305-160.05							•	•														•	•
EURO-AV Socket pcb	29305-160.06									•											•			
EURO-AV Socket pcb	29304-060.32																							
EURO-AV Socket pcb	29304-060.33																				•			
Colour/RGB (PAL/SECAM)	29504-105.54													•	•									
Colour-Sync	29504-105.56											•						•						
Colour-Sync	29504-165.61															•					•			
Colour-Sync	29504-165.67/.68 2)										•		•						•					
Feature Box	29504-103.32							•	•	•										•		•	•	•
Velocity Modulation	29305-108.03																					•	•	•
Cable Tuner	29504-101.22																							
Cable Tuner	29504-201.01																							
Cable Tuner	29504-201.21	•	•	•	•	•	•	•	•	•	•	•	•				•	•		•	•	•	•	•
AF-Amplifier	29504-104.26							•	•	•										•	•			
AF-Amplifier	29504-104.28																						•	•
AF-Amplifier	29504-104.63																					•		
AF-Amplifier	29504-104.66															•								
East/West	29504-107.88										•											•	•	•
East/West	29504-107.90							•	•															
SAT Unit	29504-106.23	•					•													•				
TV-SAT Tuner	29504-201.73	•					•																	
Video	29504-165.63/.66							•	•	•											•	•	•	•
Teletext VT 5336	29504-108.76															•								
Teletext VT 5336 VPS	29504-108.86														•									
IF-Stereo	29504-102.30														•									
IF-Stereo	29504-102.33							•		•													•	
IF-Stereo	29504-102.56											•								•				
IF-Stereo (EURO-Multi 8)	29504-162.41														•									
IF-Stereo (CUC 7...)	29504-162.43															•						•		
IF-Stereo (CUC 7...)	29504-162.46								•												•			
IF-Stereo Multi	29504-162.56										•		•						•					•

1) Tuning module 103.77 can only be used with Colour-Sync 29504-165.68.
 2) Colour-Sync module -165.68 can only be used with Tuning module 29504-103.77.

TV

Module Chart of 1994/1995 Television Receivers

Bezeichnung Designation	Sachnummer 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 70-651/9 TOP	ST 70-675 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	29504-103.57																	
Tuning Module	29504-103.63/.65				•	•								•				
Tuning Module	29504-103.71/.77 1)	•	•					•		•	•	•	•					
Tuning Module	29504-103.74																•	•
Keyboard Control	29501-080.02			•			•											
Keyboard Control	29501-080.50													•		•		
Keyboard Control	29501-080.67									•	•	•	•					
Keyboard Control	29501-080.71							•										
Keyboard Control	29501-080.72	•	•															
Keyboard Control	29501-080.75				•	•												
Keyboard Control	29501-080.78																•	•
CRT Panel	29305-022.24														•			
CRT Panel	29305-022.26															•		
CRT Panel	29305-022.31													•				
CRT Panel	29305-022.37				•	•												
CRT Panel	29305-022.42			•			•											
CRT Panel	29305-022.44	•	•					•		•	•	•	•					
CRT Panel	29305-022.74								•									
CRT Panel	29305-022.75																•	•
EURO-AV Socket pcb	29304-060.32																•	
EURO-AV Socket pcb	29305-160.05				•	•												
EURO-AV Socket pcb	29305-160.06													•				
Colour/RGB (PAL/CTI)	29504-105.49			•			•											
Colour/RGB (PAL/SECAM)	29504-105.54								•						•			
Colour-Sync	29504-105.56	•								•	•	•	•				•	
Colour-Sync	29504-165.61															•		
Colour-Sync	29504-165.67/68 2)		•					•				•						•
Feature Box	29504-103.32				•	•								•				
Cable Tuner	29504-101.22			•			•		•						•	•		
Cable Tuner	29504-201.01				•	•												
Cable Tuner	29504-201.21	•	•					•		•	•	•	•				•	•
Seagull Raster Corr. PCB	29304-019.95															•		
AF-Amplifier	29504-104.26				•	•												
AF-Amplifier	29504-104.56													•				
AF-Amplifier	29504-104.65															•		
East/West	29504-107.88													•				
East/West	29504-107.93				•	•												
SAT Unit	29504-106.22												•					
SAT-Tuner	29504-201.73											•	•					
Video	29504-165.63/.66				•	•								•				
Teletext VT 5336	29504-108.76								•									
Teletext VT 5336 VPS	29504-108.86														•			
IF-Stereo	29504-102.18			•			•											
IF-Stereo	29504-102.30								•						•			
IF-Stereo	29504-102.33				•													
IF-Stereo	29504-102.56	•								•	•	•	•				•	
IF-Stereo (EURO-Multi 8)	29504-162.41																	
IF-Stereo (CUC 7...)	29504-162.43					•										•		
IF-Stereo (CUC 7...)	29504-162.46													•				
IF-Stereo (Multi)	29504-162.56		•					•				•						•

1) Tuning module 103.77 can only be used with Colour-Sync module 29504-165.68.

2) Colour Sync module -165.68 can be used only with Tuning module 29504-103.77.

Module Chart of 1994/1995 Television Receivers

Bezeichnung Designation	Sachnummer 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 82-169 PAL PLUS	M 95-105/9 IDTV/PIP
Tuning Module	29504-103.52	●						
Display	29501-080.59				●			
Display	29501-080.60			●				
Display	29501-080.69					●		●
Keyboard Control	29501-080.70						●	
Keyboard Control	29501-080.45	●						
Keyboard Control	29501-080.30		●					
CRT Panel	29305-022.26			●				
CRT Panel	29305-022.28	●						
CRT Panel	29305-022.31		●		●			
CRT Panel	29305-022.34					●		
CRT Panel	29305-022.35							●
CRT Panel	29305-022.84						●	
EURO-AV Socket pcb	29304-060.32			●				
EURO-AV Socket pcb	29304-060.93						●	
EURO-AV Socket pcb	29305-160.01	●						
EURO-AV Socket pcb	29305-160.05							
EURO-AV Socket pcb	29305-160.06				●	●		●
Colour-Sync	29504-165.61	●		●				
Feature Box	29504-103.32		●		●	●		●
Feature Box	29504-103.33						●	
Velocity Modulation Module	29305-108.01			●				
Velocity Modulation Module	29305-108.03		●		●	●		●
Velocity Modulation Module	29305-108.04						●	
Tuner	29504-101.22	●		●				
Tuner	29504-101.25						●	
Tuner	29504-201.01		●		●	●		●
Seagull Raster Corr. pcb	29304-019.95	●						
AF-Amplifier	29504-104.56	●						
AF-Amplifier	29504-104.62		●			●		●
AF-Amplifier	29504-104.63				●			
AF-Amplifier	29504-104.65			●				
AF-Amplifier	29504-104.70						●	
East/West	29504-107.88		●		●			
East/West	29504-107.91					●		
East/West	29504-107.92							●
PIP Colour (Multi)	29504-165.94		●			●		
SAT Unit	29504-106.21	●						
SAT-Tuner	29504-201.61	●						
Video	29504-105.72						●	
Video	29504-165.63/.66		●		●	●		●
IF-Stereo	29504-102.33	●						
IF-Stereo (CUC 7...)	29504-162.43		●					
IF-Stereo (CUC 7...)	29504-162.46			●	●	●		●
IF-Stereo	29504-162.47						●	

Module Chart of 1994/1995 Television Receivers

Bezeichnung Designation	Sachnummer 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 T2 ST 772/8 TOP	Sydney T2 ST 1772 TOP	Sydney T2 ST 1772/9 TOP	Atlanta T2/9 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	29504-103.71/.77 1)																●	●	●	●
Tuning Module	29504-103.74				●	●			●	●			●	●	●					
Keyboard Control	29501-080.44	●																		
Keyboard Control	29501-080.46										●									
Keyboard Control	29501-080.61															●				
Keyboard Control	29501-080.72																●	●	●	●
Keyboard Control	29501-080.73				●	●	●						●	●						
Keyboard Control	29501-080.74							●												
Keyboard Control	29501-080.79								●	●										
Keyboard Control	29501-080.80															●				
CRT Panel	29305-022.01		●																	
CRT Panel	29305-022.12			●									●							
CRT Panel	29305-022.07	●																		
CRT Panel	29305-022.24							●												
CRT Panel	29305-022.37										●					●				
CRT Panel	29305-022.44				●	●	●						●	●			●	●	●	●
CRT Panel	29305-022.75								●	●					●					
EURO-AV Socket pcb	29305-160.05										●					●				
Colour/RGB (PAL)	29504-105.15		●																	
Colour/RGB (Multi)	29504-165.54							●												
Colour-Sync	29504-105.56				●	●	●	●				●	●	●		●			●	
Colour-Sync	29504-165.67/.68 2)					●				●									●	●
Feature Box	29504-103.32										●					●				
TV Velocity Modulation Module	29305-108.03										●					●				
Cable Tuner	29504-101.22		●					●								●				
Cable Tuner	29504-201.01	●									●					●				
Cable Tuner	29504-201.21			●	●	●	●		●	●		●	●	●	●		●	●	●	●
Seagull Raster Corr. PCB	29304-019.95							●	●	●					●					
Seagull Raster Corr. PCB	29304-019.97										●					●				
AF-Amplifier	29504-104.26										●					●				
East/West	29504-107.89										●					●				
Video	29504-165.63/.66										●					●				
IF-Stereo	29504-102.25		●													●				
IF-Stereo	29504-102.56				●	●		●				●	●	●		●			●	
IF-Stereo (EURO-Multi 8)	29504-162.41						●													
IF-Stereo (CUC 7...)	29504-162.46										●					●				
IF-Stereo (Multi)	29504-162.56				●				●										●	●

1) Tuning module 103.77 can only be used with Colour Sync 29504-165.68.

2) Colour Sync module -165.68 can only be used with Tuning module 29504-103.77.

Module Chart of 1995/1996 Television Receivers

Bezeichnung Designation	Sachnummer 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 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 55-645 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	E 55-700 TOP/LOG TV-MAX	E 55-700/9 TOP/LOG TV-MAX	M 61-1690 DPL	
Tuning Module	29504-103.80																							•	•		
Tuning Module	29504-103.95																										•
CRT Panel	29305-022.07									•	•				•	•											
CRT Panel	29305-022.11							•	•																		
CRT Panel	29305-022.12										•											•					
CRT Panel	29305-022.14		•	•	•		•																				
CRT Panel	29305-022.15											•	•	•						•	•						
CRT Panel	29305-022.78																										•
CRT Panel	29305-122.02																						•	•			
CRT Panel	29305-122.03																						•	•	•	•	
Colour-Sync	29504-105.67																								•		
Colour-Sync	29504-165.67																								•		
Colour-Sync	29504-165.72																										•
Velocity Modulation Module	29305-108.06																										•
AF-Amplifier	29504-104.67																								•	•	
AF-Amplifier-DPL	29504-104.69																										•
SATUnit	29504-106.23								•																		
Tuner	29504-201.01									•	•					•	•										
Tuner	29504-201.21						1)	1)	1)		1)	1)	1)	1)						1)	1)	1)	1)	1)	•	•	•
Tuner	29504-201.31		•	•	•		1)	1)	1)		1)	1)	1)	1)					1)	1)	1)	1)	1)	•	•	•	
Tuner	75990-200.54	•				•											•	•									
Tuner-SAT	29504-201.73							•																			
Teletext	29504-108.39									•						•											
IF-Amplifier	29504-102.40																						•				
IF-Amplifier	29504-102.56																								•		
IF-Amplifier	29504-162.39																							•			
IF-Amplifier	29504-162.56/.57																							•		•	
IF/FM-Stereo	29504-002.32									•						•								•			
IF/FM-Stereo	29504-042.31									•						•											

1) optionally fitted

TV

Module Chart of 1995/1996 Television Receivers

Bezeichnung Designation	Sachnummer 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 TOP/LOG	ST 70-745 text	ST 70-750 text	ST 70-750/9 TOP	ST 70-755 TOP/LOG	ST 70-755/9 DPL	ST 70-755/9 TOP/LOG	ST 70-95 TOP	M 70-169/9 IDTV	M 70-1690 DPL/IDTV	ST 72-161 IDTV	ST 72-761 SAT	ST 72-762 TOP	ST 72-762/9 TOP
Tuning Module	29504-003.65	●																								
Tuning Module	29504-103.93							●	●	●	●												●			
Tuning Module	29504-103.68																						●			
Tuning Module	29504-103.71/.81				●							●					●									
Tuning Module	29504-103.74/.84		●																		●			●	●	●
Tuning Module	29504-103.95																									
Tuning Module	29504-103.87												1)				1)		1)							
Tuning Module	29504-003.81											1)					1)		1)							
Display	29501-080.94																					●				
CRT Panel	29305-022.36																					●	●			
CRT Panel	29305-022.37							●	●	●	●												●			
CRT Panel	29305-022.39	●																								
CRT Panel	29305-022.44				●							●	●				●	●	●	●						
CRT Panel	29305-022.75		●																					●	●	●
CRT Panel	29305-122.05			●		●	●							●	●											
EURO-AV Socket pcb	29305-160.05	●						●	●	●	●												●			
EURO-AV Socket pcb	29305-160.06																					●		●		
Colour-Sync	29504-105.56											●									●			●	●	
Colour-Sync	29504-105.67																	●			●					
Colour-Sync	29504-165.67		●		●								●			●		●	●							●
Feature Box	29504-103.32	●						●	●	●	●												●			
Feature Box	29504-103.35																					●	●			
Velocity Modulation Module	29305-108.05	●																				●	●	●		
Seagull Raster Corr. pcb	29304-019.97																						●			
AF-Amplifier	29504-104.26							●	●	●	●															
AF-Amplifier	29504-104.28	●																								
AF-Amplifier	29504-104.56																							●		
AF-Amplifier	29504-104.63																					●				
AF-Amplifier	29504-104.68																					●				
AF-Amplifier-DPL	29504-104.69																	●								
East/West	29504-107.62																					●	●			
East/West	29504-107.65	●																								
East/West	29504-107.89																							●		
East/West	29504-107.93							●	●	●	●															
SAT Unit	29504-106.22																								●	
Tuner	29504-201.01	●				●	●	●	●	●	●											●	●	●	●	●
Tuner	29504-201.21		●	1)	●							●	●	1)	1)	●	●	●	●	●	●			●	●	●
Tuner	29504-201.31			1)										1)	1)											
Tuner-SAT	29504-201.73																							●		
Video	29504-165.64	●																								
Video	29504-165.73							●	●	●	●											●	●	●		
IF-Amplifier	29504-102.33							●	●	●													●			
IF-Amplifier	29504-102.56											●					●				●			●	●	
IF-Amplifier	29504-102.57				●									●	●											
IF-Amplifier	29504-162.46	●									●											●				
IF-Amplifier	29504-162.48																						●			
IF-Amplifier	29504-162.56/.57	●		●								●				●		●	●							●

1) optionally fitted

Module Chart of 1995/1996 Television Receivers

Bezeichnung Designation	Sachnummer 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 text 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	29504-003.81/.87								●				●							
Tuning Module	29504-003.65					●														
Tuning Module	29504-103.74/.84													●	●					
Tuning Module	29504-103.93	●														●	●			
Keyboard Control	29501-080.21									●										
Keyboard Control	29501-080.97		●	●	●															
Keyboard Control	29501-080.82							●												
Keyboard Control	29501-082.19						●													
CRT Panel	29305-022.12											●								
CRT Panel	29305-022.31		●	●	●		●													
CRT Panel	29305-022.35									●										
CRT Panel	29305-022.36							●												
CRT Panel	29305-022.37	●				●										●	●			
CRT Panel	29305-022.44												●	●	●					
CRT Panel	29305-022.77								●											
CRT Panel	29305-122.02																	●	●	
CRT Panel	29305-122.05																			●
CRT Panel	29305-122.06										●									
EURO-AV Socket pcb	29305-160.05		●	●	●	●										●	●			
EURO-AV Socket pcb	29305-160.06	●					●	●	●											
Colour-Sync	29504-105.56														●					
Colour-Sync	29504-105.67												●							
Colour-Sync	29504-165.67													●						
Colour-Sync	29504-165.70								●											
Feature Box	29504-103.32	●	●			●	●			●						●	●			
Feature Box	29504-103.35							●												
Feature Box	29504-103.36			●	●															
Velocity Modulation Module	29305-108.05	●	●	●	●			●	●	●										
Seagull Raster Corr. pcb	29304-019.97	●				●														
AF-Amplifier	29504-104.26					●										●	●			
AF-Amplifier	29504-104.56	●																		
AF-Amplifier	29504-104.63		●	●	●			●	●											
AF-Amplifier-DPL	29504-104.68						●													
East/West	29504-107.62							●												
East/West	29504-107.64		●	●	●															
East/West	29504-107.67									●										
East/West	29504-107.88						●													
East/West	29504-107.89	●				●														
East/West	29504-107.93															●	●			
PIP Colour-Multi	29504-165.94				●					●										
Tuner	29504-201.01	●		●	●	●	●	●	●	●						●	●			
Tuner	29504-201.21		●						●		1) 1)	●	●	●	●			1) 1) 1)		
Tuner	29504-201.31										1) 1)	●						1) 1) 1)		
Video	29504-165.64		●	●	●	●			●											
Video	29504-165.71															●	●			
Video	29504-165.73	●					●	●												
IF-Amplifier	29504-102.33		●	●		●							●			●	●			
IF-Amplifier	29504-102.56												●		●					
IF-Amplifier	29504-102.57																			●
IF-Amplifier	29504-162.46	●			●			●	●											
IF-Amplifier	29504-162.48					●														
IF-Amplifier	29504-162.56/.57							●					●						●	
IF-Amplifier	29504-102.40									●								●		
IF-Amplifier	29504-162.39																		●	

1) optionally fitted



Module Chart of 1996/1997 Television Receivers

Bezeichnung Designation	Sachnummer 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	29504-003.81																							1)	1)			
Tuning Module	29504-003.95															•												
Tuning Module	29504-103.87																							1)	1)			
Tuning Module	29504-103.93																•											
CRT Panel	29305-022.14	•	•	•	•																							
CRT Panel	29305-022.15						•	•																				
CRT Panel	29305-022.16								•	•	•	•	•															
CRT Panel	29305-022.17													•	•													
CRT Panel	29305-022.39																•											
CRT Panel	29305-022.44																								•	•		•
CRT Panel	29305-022.78															•												
CRT Panel	29305-122.04																	•	•	•	•					•	•	
CRT Panel	29305-122.05																					•	•					
EURO-AV Socket pcb	29304-160.06																•											
Colour-Sync	29504-105.67																							•				
Colour-Sync	29504-165.67																								•			
Colour-Sync	29504-165.74															•												
Feature Box	29504-103.32																•											
Feature Box	29504-103.37																	•	•	•	•					•	•	
Velocity Modulation Module	29305-108.06															•												
AF-Amplifier	29504-104.28																•											
East/West	29504-107.64																•											
Signal Module	29504-102.34																	•		•						•		
Signal Module	29504-162.34																		•	•	•						•	
Tuner	29504-201.21	1)						1)					1)	1)	1)	•		•	•	•	•		1)	1)	•	•	•	1)
Tuner	29504-201.31	1)						1)					1)	1)	1)				•	•	•		1)	1)			•	1)
Tuner	8140-601-610		•	•	•		•		•	•	•	•																
Video	29504-165.71																•											
IF-Amplifier	29504-102.33																•											
Audio-IF-Amplifier	29504-102.40														•													
IF-Amplifier	29504-102.56																								•			
Audio-IF-Amplifier (Nicam)	29504-162.39													•														
IF-Amplifier	29504-162.57													•		•									•			
IF-Amplifier	29504-162.58																					•	•					•

1) optionally fitted

TV

Module Chart of 1996/1997 Television Receivers

Bezeichnung Designation	Sachnummer Part No.	ST 70-705/9 TOP/LOG	ST 70-720/8 text	ST 70-725/8 text	ST 70-728 text	ST 70-755/9 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	29504-003.81	1)					1)	1)	1)													
Tuning Module	29504-003.88					•																
Tuning Module	29504-003.95												•									
Tuning Module	29504-103.68											•										
Tuning Module	29504-103.87	1)					1)	1)	1)													
CRT Panel	29305-022.36											•										
CRT Panel	29305-022.44	•				•		•	•													
CRT Panel	29305-022.75												•									
CRT Panel	29305-122.01						•															
CRT Panel	29305-122.04									•							•	•				
CRT Panel	29305-122.05		•	•	•						•											
CRT Panel	29305-122.07													•	•							
CRT Panel	29305-122.10																		2)	2)		
CRT Panel	29305-122.11																				•	•
CRT Panel	29305-122.12																		2)	2)		
EURO-AV Socket pcb	29305-160.15											•										
EURO-AV Socket pcb	29305-160.34													•								
Colour-Sync	29504-105.67						•	•														
Colour-Sync	29504-165.67	•				•			•													
Colour-Sync	29504-165.74												•									
Feature Box	29504-103.35											•										
Feature Box	29504-103.37									•						•	•	•	•			
Feature Box	29504-103.38													•								
Feature Box	29504-103.41														•							
Velocity Modulation Module	29305-108.05											•	•									
AF-Amplifier	29504-104.68											•										
AF-Amplifier	29504-104.69					•																
AF-Amplifier	29504-104.71						•	•						•								
AF-Amplifier	29504-104.72														•							
East/West	29504-107.62											•										
Signal Module	29504-102.34																•		•			
Signal Module	29504-162.34									•							•		•			
Signal Module	29504-162.35													•	•							
Tuner	29504-201.21	•	1)	1)	1)	•	•	•	•	•		•	•	•	•	•	•	•	•	•	1)	1)
Tuner	29504-201.31		1)	1)	1)						•										1)	1)
VGA Module	29305-160.35													•								
Video	29504-165.73											•										
IF-Amplifier	29504-102.56						•	•														
IF-Amplifier	29504-102.57				•																•	
IF-Amplifier	29504-142.30										•											
IF-Amplifier	29504-162.48										•											
IF-Amplifier	29504-162.57	•				•			•				•									
IF-Amplifier	29504-162.58		•	•																		•

1) optionally fitted
 2) Philips picture tube -122.10, Toshiba picture tube -122.12

TV

Module Chart of 1996/1997 Television Receivers

Bezeichnung Designation	Sachnummer Part No.	M 72-315/9 IDTV/PIP/Referenz	M 72-315 IDTV/Referenz	M 82-169 a PALplus	M 82-1690/9 TOP/LOG	M 82-269 PALplus/LOG	M 82-269/9 Reference	M 84-410/8 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	29504-003.84																					
Tuning Module	29504-003.95				●																	●		
Tuning Module	29504-103.74															1)								
Tuning Module	29504-103.84															1)								
Keyboard Control	29501-082.33	●	●																					
Keyboard Control	29501-082.34			●																				
Keyboard Control	29501-082.42											●												
CRT Panel	29305-022.17																			●				
CRT Panel	29305-022.37	●	●									●												
CRT Panel	29305-022.44																●				●			
CRT Panel	29305-022.77				●																			
CRT Panel	29305-022.84			●																				
CRT Panel	29305-122.04												●	●								●		
CRT Panel	29305-122.05																●	●					●	●
CRT Panel	29305-122.07					●	●		●	●						●								
CRT Panel	29305-122.10							●			●													
CRT Panel	29305-122.11																			●				
EURO-AV Socket pcb	29304-060.93			●																				
EURO-AV Socket pcb	29305-160.05	●	●									●												
EURO-AV Socket pcb	29305-160.34					●	●																	
Colour-Sync	29504-105.56															●								
Colour-Sync	29504-105.57																				●			
Colour-Sync	29504-165.74				●																			
Feature Box	29504-103.36	●	●									●												
Feature Box	29504-103.37							●			●		●	●								●		
Feature Box	29504-103.38					●																		
Feature Box	29504-103.39			●																				
Feature Box	29504-103.41					●		●	●						●									
Velocity Modulation Module	29305-108.04			●																				
Velocity Modulation Module	29305-108.05	●	●									●												
Velocity Modulation Module	29305-108.06				●																			
AF-Amplifier	29504-104.26											●												
AF-Amplifier	29504-104.29	●	●																					
AF-Amplifier	29504-104.70			●																				
AF-Amplifier	29504-104.71				●				●	●														
AF-Amplifier	29504-104.72					●		●	●						●									

1) optionally fitted



Module Chart of 1996/1997 Television Receivers

Bezeichnung Designation	Sachnummer Part No.																								
		M 72-315/9 IDTV/PIP/Referenz	M 72-315 IDTV/Referenz	M 82-169 a PALplus	M 82-1690/9 TOP/LOG	M 82-269 PALplus/LOG	M 82-269/9 Reference	M 84-410/8 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	
East/West	29504-107.65	●	●								●														
PIP Colour-Multi	29504-165.94	●									●														
PIP	29504-165.96								●	●					●										
Signal Module	29504-102.34										●		●									●			
Signal Module	29504-162.34							●																	
Signal Module	29504-162.35				●	●		●	●																
Tuner	29504-201.01	●	●								●														
Tuner	29504-201.21			●	●	●	●	●	●	●	●	●	●	●	●	●	1)	1)	1)	1)	●	●	1)	1)	
Tuner	29504-201.31																1)	1)	1)	1)			1)	1)	
Tuner	29504-101.25			●																					
VGA Module	29305-160.35				●	●		●	●																
Video	29504-105.72			●																					
Video	29504-165.64	●	●								●														
Audio IF	29504-102.40																	●							
IF-Amplifier Stereo	29504-102.33		●								●														
IF-Amplifier Stereo	29504-102.56														●						●				
IF-Amplifier Stereo	29504-102.57															●									
IF-Amplifier (Multi)	29504-162.47			●																					
IF-Amplifier (Multi)	29504-162.48	●																							
IF-Amplifier (Multi)	29504-162.57			●																					
IF-Amplifier (Multi)	29504-162.58															●			●				●	●	

1) optionally fitted



Module Chart of 1997/1998 Television Receivers

Bezeichnung Designation	Sachnummer 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 55-800 NIC/TOP	ST 63-700 FR/TOP	ST 63-700 NIC/TOP	ST 63-700 text	ST 63-780 NIC/TOP	ST 63-780 text	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 70-700 FR/TOP	ST 70-700 NIC/TOP	ST 70-700 text	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	29305-022.14	●																										
CRT Panel	29305-022.16		●																									
CRT Panel	29305-022.17				●	●																						
CRT Panel	29305-022.19							●	●																			
CRT Panel	29305-122.04			●										●	●	●	●											●
CRT Panel	29305-122.05																					●	●					
CRT Panel	29305-122.16								●	●	●	●	●					●	●	●	●				●	●	●	
Feature Box	29504-103.37			●										●	●	●	●											●
AF-Amplifier	29504-104.41						●																					
AF-Amplifier	29504-104.43							●																				
AF-Amplifier	29504-104.75																	●										
Signal Module	29504-102.34													●		●	●											●
Signal Module	29504-162.34			●											●		●											●
Tuner	29504-201.21			●										●	●	●	●					1)	1)					●
Tuner	29504-201.31				●	●																1)	1)					
Tuner	8140-601-610	●	●				1)	1)																				
Tuner	8140-601-612																	1)										
Tuner	8140-601-613								●									1)	●						●			
Tuner	8140-601-614						1)	1)	●	●	●	●							●		●				●	●		
IF-Amplifier (Multi)	29504-162.57				●																							
Audio-IF Stereo	29504-102.40			●																								
Audio-IF (Nicam)	29504-162.39				●																							
IF-Amplifier	29504-102.57																					●	●					

1) optionally fitted

TV

Module Chart of 1997/1998 Television Receivers / cont'd

Bezeichnung Designation	Sachnummer 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	29305-122.04	●	●															
CRT Panel	29305-122.07											●	●	●				●
CRT Panel	29305-122.10									●	●				●			
CRT Panel	29305-122.14				●													
CRT Panel	29305-122.15															●	●	
CRT Panel	29305-122.17			●														
CRT Panel	29305-122.18					●	●	●	●									
EURO-AV Socket pcb	29305-160.34				●							●	●	●		●	●	●
Feature Box	29504-103.37	●	●							●	●							
Feature Box	29504-103.38				●												●	●
Feature Box	29504-103.41											●	●	●		●	●	●
Feature Box	29504-103.42			●														
AF-Amplifier	29504-104.81																●	●
AF-Amplifier	29504-104.82				●											●	●	●
AF-Amplifier	29504-104.83											●	●	●				
PIP	29504-165.96																	●
PIP	29504-165.97												●				●	●
Signal Module	29504-102.34	●								●					●			
Signal Module	29504-102.35				●								●	●				
Signal Module	29504-162.34		●	●							●							
Signal Module	29504-162.35											●				●	●	●
Tuner	29504-201.21	●	●	●	●					●	●	●	●	●	●	●	●	●
Tuner	8140-601-612							1)										
Tuner	8140-601-613					●	●	1)	●									
VGA	29305-160.35											●	●			●	●	●

1) optionally fitted

TV

Module Chart of 1997/1998 Television Receivers

Bezeichnung Designation	Sachnummer Part No.	Atlanta SE 7220 IDTV/LOG	Atlanta SE 7220 a 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	29305-122.04				●	●							●	●		●
CRT Panel	29305-122.10	●														
CRT Panel	29305-122.14														●	
CRT Panel	29305-122.15						●	●								
CRT Panel	29305-122.16								●	●						
CRT Panel	29305-122.17		●	●												
CRT Panel	29305-122.18										●	●				
EURO-AV Socket pcb	29305-160.34						●	●							●	●
Feature Box	29504-103.37	●			●	●							●	●		●
Feature Box	29504-103.38						●	●							●	
Feature Box	29504-103.42		●	●												
AF-Amplifier	29504-104.82						●	●							●	●
Signal Module	29504-102.34	●	●		●								●			●
Signal Module	29504-102.35														●	
Signal Module	29504-162.34			●	●									●		
Signal Module	29504-162.35						●	●								
Tuner	29504-201.21	●	●	●	●	●	●	●					●	●	●	●
Tuner	8140-601-612															
Tuner	8140-601-613										●		1)			
Tuner	8140-601-614							●	●							
VGA	29305-160.35						●	●								

1) optionally fitted

GRUNDIG Tele-Pilot® Remote Control Handsets / Types Television Product Range

TP 710



29642-059.12

TP711



29642-062.01

TP 712



29642-063.01

TP 713



29642-063.04

TP 715



29642-062.11

TP 720(SAT)



29642-059.06(.18)

TRC 1



75990-200.14

TRC 2



75990-300.00

TP 760(HIFI)



29642-059.01(.11)

TP 770



29642-059.03

TP 771



29642-059.51

TP 800



29642-061.01

TV

TP 900



29642-061.11

TVP 762



75988-017.06

TV Control 1



72011-601.00

TV Control 2



72011-602.00

Retro-fitting Options for Colour Television Receivers

General Overview

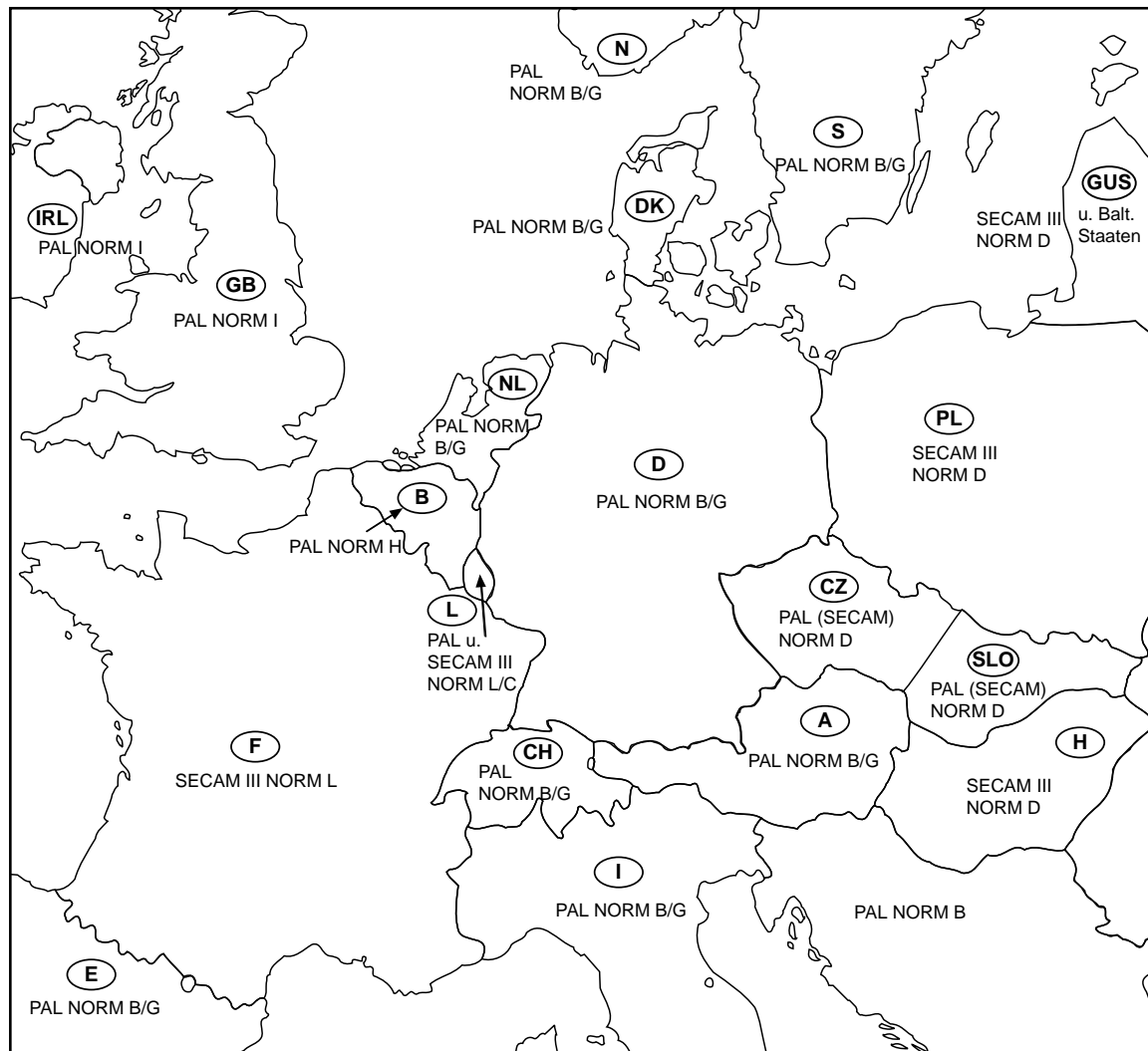
1. To receive additional or different standards
2. Teletext
3. Connecting sockets
4. Satellite reception

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 1997) 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.



Continuation of Table 1 to establish the number code	Secam	Secam	NTSC	GB	OIRT	Tele-	SAT	S-VHS	Video+	L/Loud-
	East	West 2)	Sound 4.5 MHz	Sound 6.0 MHz	Sound 6.5 MHz	text	Reception		Audio Cinch	speaker
Colour TV	Norm	Norm	Norm	Norm	Norm					k/Head-
Series 1993/94	B/G	L	M	I	D/K/K'					phone 3.5 mm
P 37-060	—	—	3 3)	1	2 3)	—	—	—	—	k
P 37-640 text	—	—	3 3)	1	2 3)	●	—	—	—	k
P 40-060	—	—	3 3)	1	2 3)	—	—	—	—	k
P 40-640 text	—	—	3 3)	1	2 3)	●	—	—	●	k
P 42-060	—	—	3 3)	1	2 3)	—	—	—	—	k
P 45-640 text	—	—	3 3)	1	2 3)	●	—	—	●	k
M 45-775 TOP	●	—	3 3)	1	2	●	—	●	●	k
P 50-640 text	—	—	3 3)	1	2 3)	●	—	—	●	k
M 50-775 TOP	●	—	3 3)	1	2	●	—	●	●	k
T 51-060	—	—	3 3)	1	2 3)	—	—	—	—	k
T 51-640 text	—	—	3 3)	1	2 3)	●	—	—	—	k
T 55-060	—	—	3 3)	1	2 3)	—	—	—	—	k
T 55-640 text	—	—	3 3)	1	2 3)	●	—	—	—	k
M 55-775 TOP	●	—	3 3)	1	2 3)	●	—	●	●	k
M 55-775/8 TOP 1)	●	●	●	●	●	●	—	●	●	k
T 63-640 a text	—	—	3 3)	1	2 3)	●	—	—	—	k
ST 63-671 text	5	—	3 3)	1	2	●	—	—	—	k
M 63-775 TOP	●	—	3 3)	1	2	●	—	●	●	k
M 63-775/8 TOP 1)	●	●	●	●	●	●	—	●	●	k
T 70-640 a text	—	—	3 3)	1	2 3)	●	—	—	—	k
ST 70-169 TOP	●	10	10	10	10	●	—	●	●	k
ST 70-169/9 TOP 1)	●	●	●	●	●	●	—	●	●	k
ST 70-665 text	5	—	3 3)	1	2	●	—	—	—	k
ST 70-655/8 text 1)	●	●	●	●	●	●	—	—	—	k
ST 70-93 text	5	—	3 3)	1	2	●	—	—	—	k
ST 7003	5	—	3 3)	1	2	●	—	—	—	k
ST 72-760 TOP	●	—	3 3)	1	2	●	—	●	●	k
ST 72-760/8 TOP 1)	●	●	●	●	●	●	—	●	●	k
ST 72-764 SAT	●	—	—	—	—	●	●	●	●	k
ST 72-160 IDTV	●	10	10	10	10	●	—	●	●	k
M 72-105 IDTV	●	10	10	10	10	●	—	●	●	k
M 72-105/9 IDTV 1)	●	●	●	●	●	●	—	●	●	k
M 72-795 TOP	●	10	10	10	10	●	—	●	●	k
M 72-795/9 TOP 1)	●	●	●	●	●	●	—	●	●	k
E 72-911 TOP	●	●	●	●	●	●	—	●	●	k
ST 8277 TOP	●	10	10	10	10	●	—	●	●	k
M 82-795 TOP	●	10	10	10	10	●	—	●	●	k
M 82-795/9 PIP/TOP 1)	●	●	●	●	●	●	—	●	●	k
M 82-105/9 IDTV 1)	●	●	●	●	●	●	—	●	●	Lk
M 95-795/9 PIP/TOP 1)	●	●	●	●	●	●	—	●	●	k
M 95-105/9 IDTV 1)	●	●	●	●	●	●	—	●	●	Lk
T 1655 text ATHEN	—	—	3 3)	1	2 3)	●	—	—	—	k
ST 1663 text COPENHAGEN	5	—	3 3)	1	2	●	—	—	—	k
ST 1663/8 text COPENHAGEN 1)	●	●	●	●	●	●	—	—	—	k
ST 2670 text STOCKHOLM	5	—	3 3)	1	2	●	—	—	—	k
ST 3670 text STOCKHOLM	5	—	3 3)	1	2	●	—	—	—	k
ST 772 TOP Sydney 72	●	—	3 3)	1	2	●	—	●	●	k
ST 172 IDTV Atlanta 72 IDTV	●	10	10	10	10	●	—	●	●	k
SE 4264 text	—	—	3 3)	1	2 3)	●	—	—	—	k
SE 5564 text	—	—	3 3)	1	2 3)	●	—	—	—	k
SE 6367 text	5	—	3 3)	1	2	●	—	—	—	k
SE 7075 text	5	—	3 3)	1	2	●	—	—	—	k
SE 7085 text	5	—	3 3)	1	2	●	—	—	—	k
SE 7286 TOP	●	—	3 3)	1	2	●	—	●	●	k
SE 7288 IDTV	●	10	10	10	10	●	—	●	●	k
STEELER	—	—	3 3)	1	2 3)	●	—	—	●	k
XS 55	5	—	3 3)	1	2	●	—	—	—	k
XS 55/8 1)	●	●	●	●	●	●	—	—	—	k
XS 63	5	—	3 3)	1	2	●	—	—	—	k
XS 63/8 1)	●	●	●	●	●	●	—	—	—	k
XS 70/8 1)	●	●	●	●	●	●	—	—	—	k
XC 701	5	—	3 3)	1	2	●	—	—	—	k

1) additionally with NICAM-Stereo-System 2) with models /8 no reception of French Band I
3) without colour

TV

Continuation of Table 1 to establish the number code	Secam	Secam	NTSC	GB	OIRT	Tele-	SAT	S-VHS	Video+	k/Head-
	East	West 2)	Sound 4.5 MHz	Sound 6.0 MHz	Sound 6.5 MHz	text	Reception		Audio Cinch	phone 3.5 mm
Colour TV Series 1994/95	Norm B/G	Norm L	Norm M	Norm I	Norm 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 6.5-MHz sound. If 5.5 MHz is to be received optionally (5.5/6.0 or 5.5 6.5 MHz), 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 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 TV Series 1994/95	Norm B/G	Norm L	Norm M	Norm I	Norm 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

TV

Continuation of Table 1 to establish the number code	Secam	Secam	NTSC	GB	OIRT	Tele-	SAT	S-VHS	Video+	Head-
	East	West 2)	Sound 4.5 MHz	Sound 6.0 MHz	Sound 6.5 MHz	text	Reception	Hisoden or Euro-AV	Audio Cinch	phone Socket k = 3.5 K = 6.3
Colour TV Series 1995/96	Norm B/G	Norm L	Norm M	Norm I	Norm 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

Continuation of 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 Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
Colour TV Series 1995/96	Norm B/G	Norm L	Norm M	Norm I	Norm 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

TV

Continuation of Table 1 to establish the number code	Secam	Secam	NTSC	GB	OIRT	Tele-	SAT	S-VHS	Video+	Head-
	East	West 2)	Sound 4.5 MHz	Sound 6.0 MHz	Sound 6.5 MHz	text	Reception	Hosiden or Euro-AV	Audio Cinch	phone Socket k = 3.5 K = 6.3
Colour TV Series 1996/97	Norm B/G	Norm L	Norm M	Norm I	Norm 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	●	●	●	●	●	●	20	●	●	k
M 70-269/9 Referenz	●	●	●	●	●	●	20	●	●	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

Continuation of Table 1 to establish the number code	Secam	Secam	NTSC	GB	OIRT	Tele-	SAT	S-VHS	Video+	Head-
	East	West 2)	Sound 4.5 MHz	Sound 6.0 MHz	Sound 6.5 MHz	text	Reception	Hosiden or Euro-AV	Audio Cinch	phone Socket k = 3.5 K = 6.3
Colour TV	Norm	Norm	Norm	Norm	Norm					
Series 1996/97	B/G	L	M	I	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	●	●	●	●	●	●	20	●	●	k
M 82-269/9 Reference	●	●	●	●	●	●	20	●	●	k
M 84-410/8 IDTV/LOG	●	●	1)2)3)	●	●	●	20	●	●	k
M 95-410/90 Referenz/PIP	●	●	●	●	●	●	20	●	●	k
DENVER SE 8216/9 PIP/Referenz	●	●	●	●	●	●	20	●	●	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	●	●	●	●	●	●	20	●	●	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



Continuation of Table 1 to establish the number code	Secam	Secam	NTSC	GB	OIRT	Tele-	SAT	S-VHS	Video+	Head-
	East	West 5)	Sound 4.5 MHz	Sound 6.0 MHz	Sound 6.5 MHz	text	Reception	Hosiden or Euro-AV	Audio Cinch	phone Socket k = 3.5 K = 6.3
Colour TV Series 1997/98	Norm B/G	Norm L	Norm M	Norm I	Norm D/K/K'					
P 37-732/5 text	●	-	1)3)4)	-	●	●	-	-	-	-
T 51-071	-	-	-	-	-	-	-	-	-	-
M 55-280/8 IDTV/LOG	●	●	1)2)3)	●	●	●	20	●	●	k
ST 55-800 a text	-	-	1)3)4)	-	-	●	21	●	●	k
ST 55-800 NIC/TOP	-	-	1)3)4)	●	●	●	21	●	●	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 63-780 text	-	-	-	-	-	●	-	●	●	k
ST 63-700 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	k
M 63-281 IDTV/LOG	●	-	1)3)4)	-	-	●	20	●	●	k
M 63-281/8 IDTV/LOG	●	●	1)2)3)	●	●	●	20	●	●	k
M 70-281 IDTV/LOG	●	-	1)3)4)	-	-	●	20	●	●	k
M 70-281/8 IDTV/LOG	●	●	1)2)3)	●	●	●	20	●	●	k
ST 70-270 IDTV	●	-	1)3)4)	-	-	●	20	●	●	k
ST 70-270/8 IDTV	●	●	1)2)3)	●	●	●	20	●	●	k
ST 70-700 DPL/NIC/FT	-	-	-	●	●	●	-	●	●	k
ST 70-700 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	k
ST 70-700 NIC/TOP	-	-	-	●	●	●	-	●	●	k
ST 70-700 text	-	-	-	-	-	●	-	●	●	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)	-	-	●	20	●	●	k
MW 70-100/8	●	●	1)2)3)	●	●	●	20	●	●	k
MW 70-269 PAL PLUS	●	22	22	22	22	●	20	●	●	k
M 72-100	●	-	1)3)4)	-	-	●	20	●	●	k
M 72-100/8	●	●	1)2)3)	●	●	●	21	●	●	k
M 72-270 IDTV/LOG Elegance	●	-	1)3)4)	-	-	●	20	●	●	k
M 72-410 Reference	●	22	22	22	22	●	20	●	●	k
M 72-410 Reference/PIP	●	22	22	22	22	●	20	●	●	k
M 72-410/9 Reference	●	●	●	●	●	●	20	●	●	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	●	●	●	●	●	●	20	●	●	k
MW 82-100/9 PAL PLUS	●	●	●	●	●	●	20	●	●	k
MW 82-2690 NIC/TOP	-	-	1)3)4)	●	●	●	21	●	●	k
M 95-410/9 a Reference/PIP	●	●	●	●	●	●	20	●	●	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 TV Series 1997/98	Norm B/G	Norm L	Norm M	Norm I	Norm D/K/K'					
Atlanta SE 7220 a IDTV/LOG	●	-	1)3)4)	-	-	●	20	●	●	k
Atlanta SE 7220 IDTV/LOG	●	-	1)3)4)	-	-	●	20	●	●	k
Berlin SE 70-100/8	●	●	1)2)3)	●	●	●	20	●	●	k
Boston SE 7090 IDTV/LOG	●	-	1)3)4)	-	-	●	20	●	●	k
Boston SE 7090/8 IDTV/LOG	●	●	1)2)3)	●	●	●	20	●	●	k
Denver SE 82-100 PAL PLUS	●	●	●	●	●	●	20	●	●	k
Denver SE 8216/9 PAL PLUS	●	●	●	●	●	●	20	●	●	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	●	-	1)3)4)	-	-	●	20	●	●	k
Sydney 100/8 SE 7020/8 IDTV/LOG	●	●	1)2)3)	●	●	●	20	●	●	k
Trento SE 7026 PAL PLUS	●	22	22	22	22	●	20	●	●	k
Wien 100 SE 6320 IDTV/LOG	●	-	1)3)4)	-	-	●	20	●	●	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

**Table 2 / Number Code Allocation (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-Norm 1)	
2	Audio module 6.5 MHz, OIRT-Norm 1)	
3	Audio module 4.5 MHz, AFN-Norm 1)	
4	Colour/RGB 29504-105.28	Colour/RGB 29504-105.14
5	Colour/RGB 29504-105.51/.52/.54	Colour/RGB 29504-105.49/.50
6	Audio module 6.5 MHz (see number code 2) + Colour/RGB 29504-105.51/.52	Colour/RGB 29504-105.50
7	VT 5336 (West) G.AV 7800 (29504-108.76) or VT 5337 (East) G.AV 7900 (29504-108.77)	
8	IF 29504-162.17 + Colour/RGB 29504-165.51/.52/.54 + Control Processor (IC 811) SDA 20561 A009 or equivalent, part no. 8305-157-561	IF 29504-102.17 Colour/RGB 29504-105.50/.51/.52 SDA 20561 A008 or lower
9	VT 5436 G.AX 03-00 (29504-108.83)	
10	IF 29504-162.43/46 Connecting cable IF/Display unit "IM" part no. 29200-233.41	IF 29504-102.33
11	IF 29504-162.44 Connecting cable IF/Display unit (main chassis) "NI" part no. 29210-234.22	IF 29504-102.14
12 2)	IF 29504-182.25	29504-102.25
13	Colour-Sync module 29504-165.67	29504-105.56
14	VT 6301 G.AY 1400 (29504-108.39)	
15	IF 29504-112.25	IF 29504-102.25
16 2)	IF 29504-182.25 + Colour/RGB 29504-105.28	IF 29504-102.25 Colour/RGB 29504-105.15
17	SER 7300 G.AX 7300 (29504-106.23)	
18	SER 6350 G.AX 8200 (29504-106.22)	
19	SER 150 G.AY 4900 (for models with EPROM version number higher than .09) SAT module 29504-106.24 SER 151 G.AC 2600 (for models with EPROM version number lower than .10) SAT module 29504-106.24	
20	SER 150 G.AY 4900 (29504-106.24)	
21	Micro Sat Receiver can be integrated externally	
22	Signal module 29504-162.35	29504-102.35

1) The 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 ++49 6154/9437.

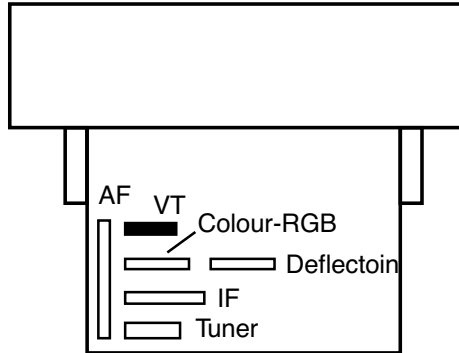
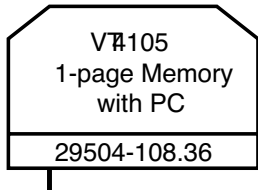
2) Apply an operating voltage of +8 - 12V (e.g. +B') to IF-contact 15 on the main chassis.

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

Teletext Decoder

Chassis Layout

TV Generation



CUC 4000
CUC 5820
CUC 5835
CUC 5836
CUC 5880
CUC 5891

This decoder replaces the versions -108.31 and .33

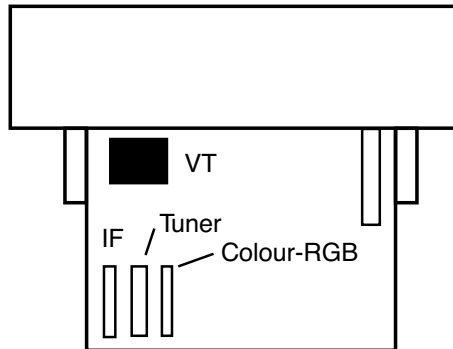
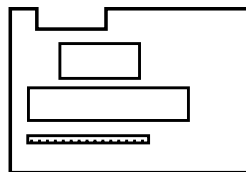


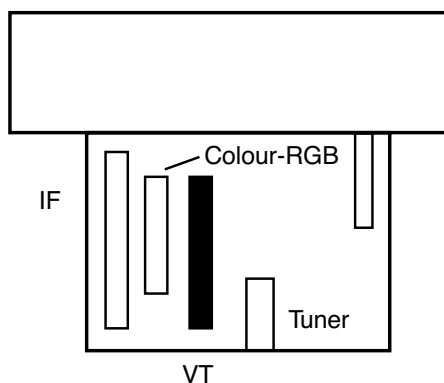
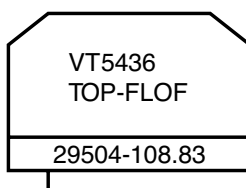
Table models
e.g.
T 55-549
T 63-539
T 70-549

in export models
e.g.
T 51-540 DS/TF
T 55-540 FT/GB
already fitted

VT 5336 TF (West)
29504-108.76
VT 5337 TF (East)
29504-108.77

West: Germany, Great Britain, France, Italy,
Sweden, Spain, Iceland

East: Germany, former Yugoslavia, Poland, Rumania,
Sweden, Czech Republic, Slovakia



CUC 5200

Portable
P 27-649/12

TV

Built-in Satellite Receiver SER 7300

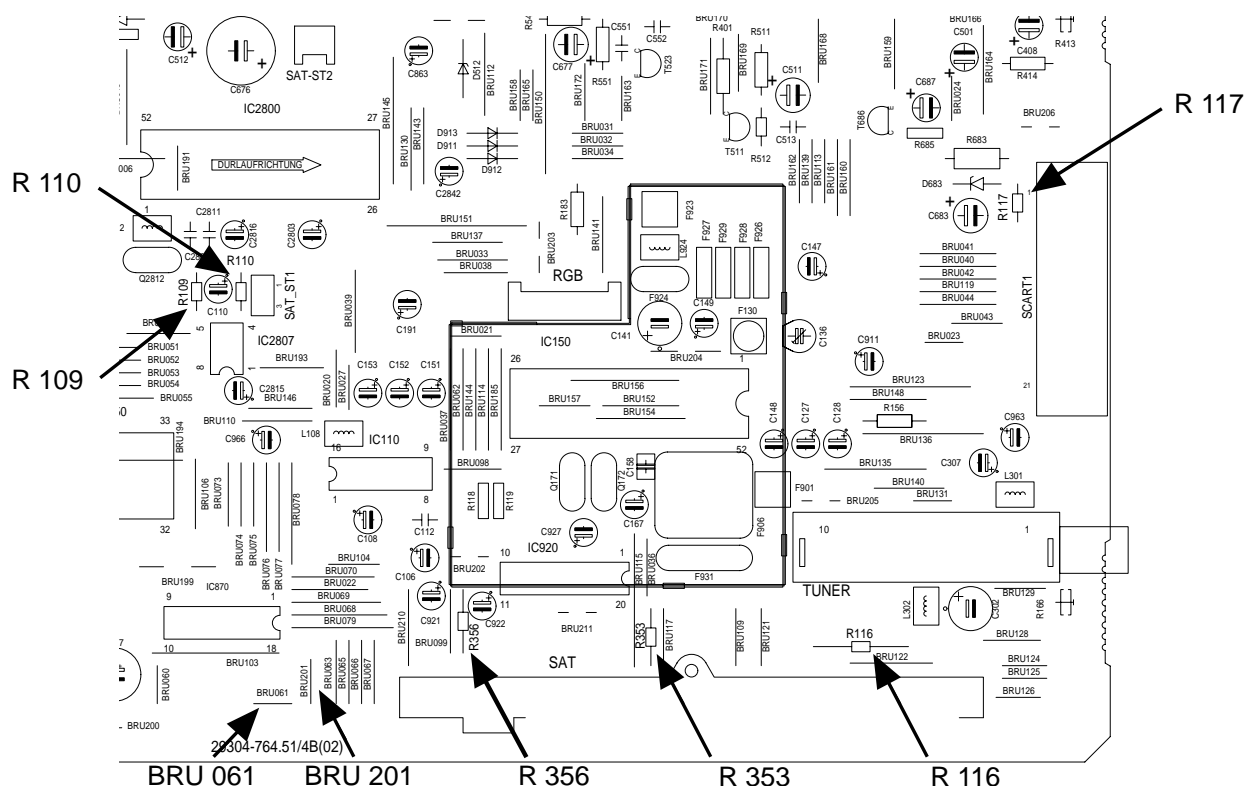
Order No. **GAX 8300**, for colour television receivers fitted with the Chassis CUC 73xx
 Consisting of: 1 SAT Module 29504-106.23, 1 Plug-in Connecting Cable, 2-core,
 29210-212.72
 1 Plug-in Connecting Cable, 3-core 29210-603.41,
 1 Module Holder 29700-616.01

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 29504-106.22
 1 Plug-in Connecting Cable 29210-214.32

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 Receivers SER 150 / SER 151 E

SER 150, order no. **G.AY 4900**, for TV chassis CUC 1825/1826 (Digi Basic), EPROM version number index $\geq .10$ and for TV chassis CUC 1827 (Digi Basic+), 1952/1983/1984 (Digi 6)

SER 151 E, order no. **G.AC 2600**, for TV chassis CUC 1825/1826, EPROM version number index $<.10$

Calling up the version number with the remote control buttons:

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

The SER 150 receiver consists of: SAT Module 29504-106.24, positioning device 29700-216.01

The SER 151 E receiver consists of: SAT Module 29504-106.24, positioning device 29700-216.01, EPROM part no. 19798-300.10

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.
- Break off the prepunched dummy plug for SAT aerial connection on the socket cover.
- Detach the module holder and pinch off the 3 holding lugs.
- 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 module positioning device.
- **Only SER 151 E:** Replace EPROM IC 80060 (27C020-15NS) on the chassis board.
- Refit the rear of the cabinet and connect the TV set.

Switch on the TV set (ATS menu), select „Adjust language on screen“ --> „Adjust country --> Cable/Aerial“ --> and confirm the desired satellite with "OK".

After the 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 on 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 module positioning device.
- Refit the rear of the cabinet and connect the TV set.

Switch on the TV set (ATS menu), select „Adjust language on screen“ --> „Adjust country --> Cable/Aerial“ --> and confirm the desired satellite with "OK".

After the 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
Changing over from the forced 60 Hz field deflection frequency on a per-programme basis to 50 Hz with CUC 5301 and 5310 fitted with the earlier processor ZC (XC) 88604. If 60 Hz has been entered inadvertently on a programme position, the picture will not synchronise with 50 Hz signals (fast slipping picture).	24
Forced mono storable on a per-programme basis	25
White level correction	26
Entering default values on TV's fitted with CUC 5350/5360: setting the default OSD position, cancelling the child lock and Hotel mode. On TV's fitted with the SDA 20563 processor, the volume offsets entered in individual programme positions are additionally cancelled in all rogramme positions 1-49, the volume is set to mid-position. This option is particularly important on replacement of a memory-IC.	27
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“.	28
Switching off the blue screen background	29
Deactivating the eco mains switch	30
Activating/deactivating the Demo Mode	31

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 5301/5303/5305/5310/5350/5360/5361/5370/5371/5500/5511
 B: Models with CUC 7851/7880/7890/7951
 C: Models with CUC 1800/1821/1822/1824/1851/1852/1881/1892 (Digi 4/5)
 D: Models with CUC 6300/6301/6310
 E: Models with CUC 6360/6365/6380/6450/6460/6469
 F: Models with CUC 7300/7302
 G: Models with CUC 6330/6331/7350
 H: Models with CUC 7301
 I: Models with CUC 1805/1825/1826/1827 (Digi Basic)
 J: Models with CUC 1842/1894/1952/1962/1983/1984 (Digi 6)
 K: Models with CUC 7303/7305

Code No.	Models Group	Sequence of Operations
1	A to C	See operating instructions. The user is guided by the menu.
	D to J	Enter channel "C00" on programme position "10".
2	A/B/D	"OFF" via "OSD OFF" (menu guide), "continuous" via Telepilot button "i".
	C	Menu guide: "i", "Special Functions", "Settings", "Station Ident short - continuous* - off". * only models without separate display outside the screen
3	B/C	Menu guide: "i", "Special Functions", "Service", "Switch on with...".
	E	Menu guide: "i", "Special Functions", "Settings", "Switch on with..."
	I/J	Menu guide: "i", "Dialog Center", "Special Functions", "Switch on with.."
4	A/D	Menu guide: "Programmes" 4th position ("S").
	C/E/F/I/J	Under the ATS menu item "Adjust country", select "F".
	G	Only multi-norm TV's: Select "FR ON" under the ATS menu.
5	A to I	In "Norm1" and Band I, the TV receiver - multi-norm 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	C	Loading the picture geometry default values: Menu guide: "i", "Special Functions", "Service", "code number 8500", "Geometry"...


continued on next page

Code No.	Models Group	Sequence of Operations
6	B/C/J	Depress and hold the "P -" button down while switching on with the mains button. Hold the button until the indication appears.
7	A/D/E/ F	Sub-menu "SPECIAL FUNCTION", "PROGRAMMER HP", "OK" button on the remote control handset.
	B/C	Sub-menu "Special Functions" and "IR-Data Programmer".
	G	Depress and hold the "i" button down while switching on with the mains button. Select "Programmer HP" on the menu and confirm with "OK".
	I/J	Menu guide: "i", "Dialog Center", "Service" (only models with SAT module)
8	A to C	Operating the TV in channel mode (display shows "C06" for example).
9	A to G I/J/K	Store channel "C00" in the programme position which shall no longer be selectable (models of group K - band selection "----").
10	A	Depress and hold down the "P/C" button on the remote control while switching the TV on with the mains button. In menu "VOLUME M.." set the desired maximum volume level, confirm with "OK" and press button "i". Cancelling the Hotel mode: Repeat the steps above but enter the maximum volume level possible.
	D/E/G/ H/K	Depress and hold button "i" ("P/C" for models of group F) 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".
	F	Depress and hold the "P/C" button while switching on from Standby with button "P+" on the TV. With button "OK" set the Hotel mode to "OFF".
11	A/D	Menu guide: "Timer and key symbol", "OK", with the buttons ∇ , \triangle select the key symbol then indicated on red background, "OK", enter a 4-digit number, "OK", "TV". The child lock remains active even if it has been unlocked several times (by entering the code number). To cancel: enter the code number via the menu (see above) or by pressing the buttons \triangleright , \triangleleft , ∇ , \triangle , "OK" in this order.
	C/E	Menu guide: Sub-menu "Timer-Security-System"; "OK", enter 4-digit code number and switch-off time. Cancel as described under "B/E".

continued on next page

Code No.	Models Group	Sequence of Operations
11	I/J	Menu guide: "i", "Dialog Center", "Child lock", enter a 4-digit code number. Cancel as described under "A/D".
12	A/D	Sub-menu "SPECIAL FUNCTION", "OSD ON OFF", "OK".
	B	Menu guide: "i", "Special Functions", "Settings", "Picture/Sound Options" on/off, cancel with respective button. See "F" for individual programme positions.
	C/E/F	Menu guide: "i", "Special Functions", "Settings", "Picture/Sound Options on/off".
	I/J	Menu guide: "i", "Dialog Center", "Special Functions", "Picture/Sound Options on/off" (group J: "visible/invisible").
13	B/C	Menu guide: "i", "Picture settings" or "Picture menu", "Peaking".
	I/J	"Eye" button, "Personal", "OK"
14	B/C	Menu guide: "i", "Special Functions", "Service" or "Settings", "Luma delay".
	I/J	Menu guide: "i", "Dialog Center", "Service", "Colour match.."
15	B/C/E/ F/I/J	Buttons "i" and "AUX". The figure following the decimal point indicates the EPROM version.
16	B	Menu guide: "i", "Special Functions", "Settings", "PIP Size/Frame/Contrast". PIP Adjustment Mode: Depress and hold down the "PIP" button while switching the TV 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 and, at the same time, to leave the PIP Adjustment mode, press the "OK" button.
	C	Menu guide: "i", "Special Functions", "Settings", "PIP frame" and "Frame brightness".
	J	PIP Adjustment Mode: Depress and hold the "PIP" button while switching on with the mains button. With the buttons "-", "+", "P-", "P+" the PIP position can be adjusted. Store with "OK".
17	C	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.

continued on next page

Code No.1	Models Group	Sequence of Operations
17	E/I	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. (Models of group I: "i", "Dialog Center", "TV-Programme-Chart", move the yellow bar to "AV" and activate with the "blue button").
	J	Menu guide: "i", "TV-Programme-Chart". Under "Station name" put a comma in the 4th place and enter the following letters and figures in the 5th and 6th 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.
18	A	Depress and hold the "P/C" button on the remote control while switching on with the mains button. Select "OSD Position" in the menu and set the desired horizontal position. Confirm with "OK" and press "i" to return to the normal viewing mode.
	K	Depress and hold the "i" button on the remote control while switching on with the mains button. Set the desired OSD position in the menu and store with "OK".
19	A/C/E/ F/G/H/K	Press and hold the "P/C" button on the remote control for ca. 4 seconds.
	J	Menu guide: "i", "OK" menu item "Search for new TV programmes".
20	C	Press  on the remote control, "OK", "HIFI output variable - linear - off".
21	A/C/D	Menu guide (see also operating instructions)
	E/F/I/J	Calling up the ATS tuning system -> Language is possible
22	C	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 continuous.

continued on next page

Code No.	Models Groupe	Sequence of Operations
22	E/F/I/J	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. Figures in parentheses apply to models of group J.
23	A	Select the corresponding programme position. 1. Early models with CUC 5301/5310 and processors ZC(XC) 88604 and 88606: "i", "OK", sub-menu "STATION TABLE", "OK". Under "NAME" enter the letters "EXT" (for external) in the first 3 places, then press "OK". To cancel: Enter any station name. 2. CUC 5301/5310 with processor ZC(XC) 88621 (Germany and France), ZC(XC) 411861 (only PAL) as well as ZC(XC) 411854 or 411862 (D/S models OIRT) and all other models: "i", "OK", sub-menu "STATION TABLE", "OK", "AV" (between the letters "P R" a decimal point appears: "P.R"), "OK". To cancel: In the station table menu, press the buttons "AV" (point disappears) and "OK" sequentially.
	D	Select the corresponding programme position. Menu guide: "i", "OK", "SPECIAL FUNCTIONS", "DESCRAMBLER", "ON". To cancel: "i", "OK", "SPECIAL FUNCTIONS", "DESCRAMBLER", "OFF".
	B/C	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.
	E/F	Menu guide: "i", "OK", "Special functions", "AV Settings", "AV 1" and select "Decoder".
	G	Button "P/C" -> "DEC". Set to "ON".
	I/J	Menu guide: "i", "Dialog Center", "TV-Programme-Chart", "AUX" button.
24	K	In the Tune menu (call up "i"+"OK"), set "Dec" to "ON".
	A ³⁾	Menu guide: "i", "Station Table" 3rd position "Name". Overwrite "AV60" with another name or enter four blanks. Store with "OK".

continued on next page

³⁾ only certain models (see Table 1)

Code No.	Models Group	Sequence of Operations
25	B	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" on a per-programme basis). To cancel: Overwrite "MONO" with any other name or enter four blanks.
	C/J	Menu guide: "i", "TV Station Table. Put a comma in the 4th place of the station ident and enter the letters "MO" in the last two places.
	E/I	Menu guide: "i", "TV Station Table". Put a comma in the 2nd place of the station ident and enter the letters "MO" in the last two places.
26	B	Menu guide: "i", "Special functions", "Service", "White balance". The mixture of Green/Red and Blue/Red can be adjusted.
	C	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).
	E	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.
	I/J	Menu guide: "i", "Dialog Center", "Service", "Only for the retailer", "Code 8500". The mixture of Green/Red and Blue/Red can be adjusted.
27	A ³)	Models with TP 663: Depress and hold down the "TV" button on the remote control while switching on with the mains button. Models with TP 760: Depress and hold down the "IDTV" button on the remote control while switching on with the mains button.
	D	Depress and hold the "i" button on the remote control while switching on with the mains. Menu guide: "Horizontal Position", "OK", "OK", press "i" to leave the menu.
	E/I	Press and hold down 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 while switching the TV on with the mains button.

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Code No.	Models Group	Sequence of Operations
27	F	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: Press and hold the "AUX" button on the remote control and switch the TV on from Standby with the local "P+" button.
	J	Restoration of the settings at the time of delivery: buttons "AUX", "OK"
28	E/C/B I/J	Depress and hold button "L+" on the remote control while switching on with the mains button.
	F	Depress and hold button "L+" on the remote control and switch the TV on from Standby with the local "P+" button.
29	I/J	Menu guide: "i", "Dialog Center", "Service", "for authorised dealer", "Code 8500". Press the yellow button. After having changed the programme, the blue background is switched off. This function is cancelled when switching off.
30	G	Depress and hold button "L+" on the TV and switch the TV on with the mains button. Repeat to re-activate the economy switch.
31	J	Demo on: Depress and hold button "L+" on the TV and switch the TV on with the mains button. Press the "P+" button within 10 seconds. Demo off: Press the "P-" button on the TV within 10 seconds after having switched on.

Service Manuals from 1992 onwards sorted by sets

Set	Part.No.	Typ	CUC	
Athen T 1655 TEXT D/GB	72010-013.60	SM		94
Atlan. 72/9IDTV ST172/9 IDTV	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1822	94
Atlanta 72 IDTV ST172 IDTV	72010-014.20	SM	CUC 1822	94
Atlanta SE 7220 IDTV/LOG	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
Atlanta SE 7020 I DTV/LOG D/GB	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1826	97
Atlanta SE 7289 IDTV/LOG	72010-019.30	SM	CUC 1826	96
Berlin SE 70-100/8 D/GB	72010-021.10	SM	CUC 1828	97
Berlin SE 7290 IDTV LOG D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25 72010-014.26	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 1822	96
Boston SE 7090 IDTV/LOG D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
Boston SE 7090 IDTV/LOG D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
Boston SE 7090/8 I DTV/LOG D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
Boston SE 7090/8 IDTV/LOG D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
Boston ST 170 IDTV D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23	SM 1. Supp. 2. Supp. 3. Supp.	CUC 1824	95
Boston ST 270 IDTV/LOG	72010-019.30	SM	CUC 1825	96
Boston ST 270/8 IDTV/LOG	72010-019.30	SM	CUC 1825	96
Copenhagen ST 1663 TXT	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
Copenhagen ST 1663/8TXT	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
Copenhagen ST 763 TOP/LOG D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 6360	96
Copenhagen ST 763 TOP	72010-015.00	SM	CUC 6360	94
Copenhagen ST 763/9 TOP D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 6360	96
CT 800 D/GB	72010-001.90 72010-001.91	1. Supp.		92
Denver 82-100 PALplus D/GB	72010-019.90 72010-019.91 72010-019.92	SM 1. Supp. 2. Supp.	CUC 1984	97
Denver 82-100/9 PALplus	72010.019.90 72010.019.91	SM 1. Supp.	CUC 1984	97

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
E 55-700 TOP	72010-017.50	SM	CUC 6450	95
E 55-700/9 TOP	72010-017.50	SM	CUC 6450	95
E 63-911 IDTV	72010-014.20	SM	CUC 1822	94
E 72-170 IDTV Elegance	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 1822	94
E 72-911 DPL	72010-014.70	SM	D/GB/F/I/DK CUC 7861	94
E 72-911 IDTV	72010-014.20	SM	CUC 1822	94
E 72-911 IDTV PIP	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	D/GB/F/I/DK CUC 7861	94
E 72-911 TOP	72010-013.70	SM	CUC 7851	93
G 1000	72010-017.60 72010-017.61 72010-017.62	SM 1. Supp. 2. Supp.		93
Greenv. 7003 NIC/TOP D/GB	72010-020.70	SM	CUC 2030 N	97
Greenville 37 SP 737 text	72010-016.80 72010-016.81	SM 1. Supp.	CUC 7350	94
Greenville 55 T 5574 TOP	72010-015.40 72010-015.41	SM 1. Supp.	CUC 7300	95
Greenville 70 ST 1770 TOP	72010-015.00 72010-015.01	SM 1. Supp.	CUC 6360	95
Greenville 7002 TEXT	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
Greenville 7002/8 TEXT	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
Greenville 7003 text D/GB	72010-020.70	SM	CUC 2030	97
GT 1401	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 1401 I	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 1402	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 1402 I	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 2001	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 2001 I	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 2003	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 2003 I	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 2005	72010-019.10	SM	G 1000 St.	96
GT 2101	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96
GT 2103	72010-017.60 72010-017.61	SM 1. Supp.	G 1000	96

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
GT 2105	72010-019.10	SM	G 1000 St.	96
Hamburg ST 770/9 TOP	72010-015.00 72010-015.01	SM 1. Supp.	CUC 6360	95
HRM 400 SAT / BD 3	72010-011.90	SM		92
HRM 401 SAT / BD 1	72010-011.90	SM		92
HRM 405 SAT / BD OIRT	72010-011.90	SM		92
HRM 420 DSR 118 MHZ	72010-011.90	SM		92
HRM 806 SAT-PAL/BD 3 NTSC	72010-011.90 72010-011.91	SM 1. Supp.		92
HRM 807 SAT / UHF-OIRT	72010-011.90 72010-011.91	SM 1. Supp.		92
HRM 815 TERR OIRT/BD3 OIRT	72010-011.90 72010-011.91	SM 1. Supp.		92
HRM 825 FM	72010-011.90 72010-011.91	SM 1. Supp.		92
HRM 851 SAT/BD 1	72010-015.50	SM		95
HRM 852 SAT/UHF	72010-015.50	SM		95
HRM 853 FR SAT/UHF	72010-015.50	SM		95
HRM 854 SAT/HYPERB.STEREO	72010-015.50	SM		95
HRM 855 SAT/OIRT	72010-015.50	SM		95
HRM 857 SAT/UHF-OIRT	72010-015.50	SM		95
HRM 858 A SAT/BD 3-STER.	72010-015.50	SM		95
HRM 859 SAT/BD 1-OIRT	72010-015.50	SM		95
Lissabon SE 5576 text D/GB	72010.016.80 72010.016.81	SM 1. Supp.	CUC 7350	94
M 1403 D/GB	72010-020.50	SM	CUC 7303	97
M 1403 TXT D/GB	72010-020.50	SM	CUC 7303	97
M 2003 TXT D/GB	72010-020.50	SM	CUC 7303	97
M 2103 TXT D/GB	72010-020.50	SM	CUC 7303	97
M 2150 TXT D/GB	72010-020.60	SM	CUC 7350	97
M 45-775 TOP D/GB	72010-012.00 72010-012.01	SM 1. Supp.	D/GB/F/I/NL CUC 5350	93
M 50-775 TOP D/GB	72010-012.00 72010-012.01	SM 1. Supp.	CUC 5350	93
M 55-105 IDTV D/GB	72010-014.20 72010-014.21 72010-014.22	SM 1. Supp. 2. Supp.	CUC 1800	95
M 55-105/9 IDTV D/GB	72010-014.20 72010-014.21 72010-014.22	SM 1. Supp. 2. Supp.	CUC 1800	95
M 55-280/8 IDTV/LOG D/GB	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1805	97
M 55-775 TOP	72010-011.40	SM	D/GB/F/I/NL CUC 5360	93
M 55-775/8 TOP D/GB	72010-011.40	SM	CUC 5360	93
M 61-1690 DPL D/GB	72010-018.70	SM	CUC 6469	96

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set		Part.No.	Typ	CUC	
M 61-1690 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 6369	96
M 63-105 IDTV	D/GB	72010-014.20	SM	CUC 1822	94
M 63-105/9 IDTV	D/GB	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1822	94
M 63-115/9 IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1822	94
M 63-281 IDTV/LOG	D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 63-281 IDTV/LOG	D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 63-281/8 IDTV/LOG	D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 63-281/8 IDTV/LOG	D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 63-470 CTI/TEXT	D/GB	72010-000.70	SM	CUC 3600/3800	92
M 63-475 CTI/TEXT	D/GB	72010-000.70	SM	CUC 3600/3800	92
M 63-670 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
M 63-775 TOP	D/GB	72010-014.00	SM	CUC 5365	93
M 63-775/8 TOP	D/GB	72010-014.00	SM	CUC 5365	93
M 63-776/9 TOP	D/GB	72010-015.00 72010-015.01	SM 1. Supp.	CUC 6365	95
M 70-169/9 IDTV	D/GB	72010-016.10	SM	CUC 1951	95
M 70-1690 DPL	D/GB	72010-018.70	SM	CUC 6469	96
M 70-1690 DPL/IDTV	D/GB	72010-018.90	SM	CUC 1961	96
M 70-1690 DPL/IDTV/LOG		72010-018.90	SM	CUC 1961	96
M 70-1690 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 6369	96
M 70-269/9 Referenc	D/GB	72010-019.90	SM	CUC 1952	97
M 70-280 IDTV/LOG		72010-019.30	SM	CUC 1825	96
M 70-280 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1826	96
M 70-280/8 IDTV/LOG		72010-019.30	SM	CUC 1825	96
M 70-280/8 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1826	96
M 70-281 IDTV/LOG		72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 70-281 IDTV/LOG	D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 70-281/8 IDTV/LOG		72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 70-281/8 IDTV/LOG	D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
M 70-490/9	72010-002.80	SM	CUC 3800	92
M 70-490/90 S	72010-002.80	SM	CUC 3800	92
M 70-695 TOP	72010-011.20 72010-011.21	SM 1. Supp.	CUC 6851	92
M 70-695/9 TOP	72010-011.20 72010-011.21	SM 1. Supp.	D/GB/F//NL CUC 6851	92
M 70-781 IDTV	72010-012.90	SM	D/GB/F//NL/ P CUC 1821	92
M 70-791 IDTV	72010-012.90	SM	CUC 1851	92
M 72-100 IDTV	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1826	97
M 72-100/8 IDTV	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1826	97
M 72-105 IDTV	72010-014.20	SM	CUC 1852	93
M 72-105/9 IDTV	72010-014.20	SM	CUC 1852	94
M 72-105/9 IDTV/PIP	72010-014.20	SM	CUC 1852	94
M 72-115 IDTV	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1852	95
M 72-115/9 IDTV PIP	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1852	95
M 72-215 IDTV Reference	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	D/GB/F//NL CUC 1852	93
M 72-215/9 IDTV/PIP Reference	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	D/GB/F//NL CUC 1852	95
M 72-270 IDTV/LOG Elegance D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 72-270 IDTV/LOG Elegance	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
M 72-315 IDTV Reference	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25 72010-014.26	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 1852	96

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
M 72-315/9 IDTV/PIP/Reference	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25 72010-014.26	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 1852	96
M 72-410 Reference D/GB	72010-019.90	SM	CUC 1842	97
M 72-410/9 Reference D/GB	72010-019.90	SM	CUC 1842	97
M 72-410/9 Reference/PIP	72010-019.90	SM	CUC 1842	97
M 72-795 TOP D/GB	72010-013.70	SM	CUC 7851	93
M 72-795/9 TOP D/GB	72010-013.70	SM	CUC 7851	93
M 82-102 IDTV	72010-012.90	SM	CUC 1881	92
M 82-105/9 IDTV D/GB	72010-012.90 72010-012.91	SM 1. Supp.	CUC 1881/1892	93
M 82-105/9 IDTV/PIP D/GB	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1882	94
M 82-115/9 IDTV PIP D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1882	94
M 82-169 PAL PLUS D/GB	72010-016.00	SM	CUC 1981	95
M 82-169/9 IDTV D/GB/F	72010-016.10	SM	CUC 1982	95
M 82-1690 TOP/LOG D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06 72010-015.07 72010-015.08	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp. 7. Supp. 8. Supp.	CUC 6360	96
M 82-169a PAL PLUS D/GB	72010-016.00 72010-016.01	SM 1. Supp.	CUC 1981	96
M 82-269/9 Ref D/GB	72010-019.90	SM	CUC 1984	97
M 82-269PALplus/LOG D/GB	72010-019.90	SM	CUC 1983	97
M 82-795 TOP D/GB	72010-013.10 72010-013.11	SM 1. Supp.	CUC 7890	94
M 82-795/9 PIP/TOP D/GB	72010-013.10 72010-013.11	SM 1. Supp.	CUC 7880	94
M 84-210/8 IDTV/LOG D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1827	96
M 84-210/8 IDTV/LOG D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1827	96
M 95-102 IDTV D/GB	72010-012.90	SM	CUC 1892	92
M 95-105/9 IDTV D/GB	72010-012.90 72010-012.91	SM 1. Supp.	CUC 1881/1892	94
M 95-105/9 IDTV/PIP D/GB	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1893	94
M 95-115/9 IDTV PIP D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1893	94
M 95-410/9 Reference/PIP	72010-019.90	SM	CUC 1842	97

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
M 95-411/9 Reference/PIP D/GB	72010-019.90 72010-019.91 72010-019.92	SM 1. Supp. 2. Supp.	CUC 1894	97
M 95-795/9 PIP/TOP D/GB	72010-007.30 72010-007.31	SM 1. Supp.	CUC 7880	94
Melbourne SE 7210 TOP D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2031	97
Melbourne SE 7210/NIC/TOP D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2031 N	97
MINERVA M 1403 D/GB	72010-020.50	SM	CUC 7303	97
MINERVA M 1403 TXT D/GB	72010-020.50	SM	CUC 7303	97
MINERVA M 2003 TXT D/GB	72010-020.50	SM	CUC 7303	97
MINERVA M 2103 TXT D/GB	72010-020.50	SM	CUC 7303	97
MINERVA P 3746 text D/GB	72010-010.50 72010-010.51	SM 1. Supp.	CUC 5301	92
MINERVA P 3747 D/GB	72010-012.60	SM	CUC 5303	92
MINERVA P 3748 D/GB	72010-013.60	SM	CUC 6300	93
MINERVA P 3770 text D/GB	72010-017.60	SM	G 1000	94
MINERVA P 4047 D/GB	72010-012.60	SM	CUC 5303	92
MINERVA P 4548 text D/GB	72010-013.60	SM	CUC 6300	93
MINERVA ST 6303 D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	CUC 5360	94
MINERVA ST 6367 text D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
MINERVA ST 6368 text D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
MINERVA ST 7068 text D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
MINERVA ST 8277 TOP D/GB	72010-013.10	SM	CUC 7880/7890	93
MINERVA T 6348 text D/GB	72010-013.80	SM	CUC 6310	93
MINERVA T 5148 D/GB	72010-013.60	SM	CUC 6300	93
MINERVA T 5570 text D/GB	72010-017.60	SM	G 1000	95
MINERVA T 6346 text D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	92
MST 400 D/GB	Einzelrep.	E		93
MW 70-100/8 D/GB	72010-021.10	SM	CUC 1828	97
MW 70-269 PALplus D/GB	72010.019.90 72010.019.91	SM 1. Supp.	CUC 1952	97
MW 82-100/9 D/GB	72010.019.90 72010.019.91	SM 1. Supp.	CUC 1984	97
MW 82-100/9 PALplus D/GB	72010-019.90 72010-019.91 72010-019.92	SM 1. Supp. 2. Supp.	CUC 1983	97
MW 82-269/9 Reference	72010.019.90 72010.019.91	SM 1. Supp.	CUC 1984	97
P 14-6210/4	72010-019.80	SM	CUC 400	96
P 14-6210/4 text	72010-019.80	SM	CUC 400	96
P 14-6210/6	72010-019.80	SM	CUC 400	96
P 14-6210/6 text	72010-019.80	SM	CUC 400	96
P 14-6210/8	72010-019.80	SM	CUC 400	96
P 14-6210/8 text	72010-019.80	SM	CUC 400	96

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Set		Part.No.	Typ	CUC	
P 20-6210/4 text		72010-019.80	SM	CUC 400	96
P 20-6210/8 text		72010-019.80	SM	CUC 400	96
P 25-449/12	D/GB	72010-009.00	SM	CUC 4200	92
P 27-649/12	D/GB	72010-013.00	SM	CUC 5200	92
P 37-040	D/GB	72010-010.00	SM	CUC 5300	92
P 37-040 A	D/GB	72010-012.60	SM	CUC 5303	92
P 37-040 A INT.	D/GB	72010-012.60	SM	CUC 5303	92
P 37-040 P/S	D/GB	72010-012.60	SM	CUC 5303	92
P 37-050	D/GB	72010-012.60	SM	CUC 5303	92
P 37-050 GB	D/GB	72010-012.60	SM	CUC 5303	92
P 37-050 INT+OIRT	D/GB	72010-012.60	SM	CUC 5303	92
P 37-060	D/GB	72010-013.60	SM	CUC 6300	93
P 37-060 OIRT	D/GB	72010-013.60	SM	CUC 6300	93
P 37-065	D/GB	72010-017.60	SM	G 1000	94
P 37-065/5	D/GB	72010-017.80	SM	CUC 7301	94
P 37-066/5	D/GB	72010-019.40	SM	CUC 7303	96
P 37-070	D/GB	72010-017.80	SM	CUC 7301	94
P 37-070 GB	D/GB	72010-017.80	SM	CUC 7301	94
P 37-071	D/GB	72010-019.40	SM	CUC 7303	96
P 37-071 GB	D/GB	72010-019.40	SM	CUC 7303	96
P 37-071-071 IR	D/GB	72010-019.40 72010-019.41 72010-019.42 72010-019.43	SM 1. Supp. 2. Supp. 3. Supp.	CUC 7303	96
P 37-3035 text	D/GB	72010-019.40 72010-019.41 72010-019.42	SM 1. Supp. 2. Supp.	CUC 7303	97
P 37-549/12	D/GB	72010-012.10	SM	CUC 5305	92
P 37-640 TEXT	D/GB	72010-013.60	SM	CUC 6300	93
P 37-640 TT/GB	D/GB	72010-013.60	SM	CUC 6300	93
P 37-730 MegASIS	D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84 72010-017.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 7301	97
P 37-730 text	D/GB	72010-017.80	SM	CUC 7301	96
P 37-730 text ASIS	D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	96
P 37-730 text GB	D/GB	72010-017.80	SM	CUC 7301	94
P 37-730/5 text ICN	D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 7301	97
P 37-731 text IR	D/GB	72010-019.40 72010-019.41 72010-019.42	SM 1. Supp. 2. Supp.	CUC 7303	97
P 37-731 text/GB	D/GB	72010-019.40	SM	CUC 7303	96
P 37-731/12 text	D/GB	72010-019.50	SM	CUC 7305	96

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Set		Part.No.	Typ	CUC	
P 37-732/5 text	D/GB	72010-019.40 72010-019.41 72010-019.42 72010-019.43	SM 1. Supp. 2. Supp. 3. Supp.	CUC 7303	96
P 37-740 SAT	D/GB	72010-015.40	SM	CUC 7300	94
P 37-740 TOP	D/GB	72010-015.40	SM	CUC 7300	94
P 37-841 FR	F/GB	72010-019.60	SM	CUC 7303 F	96
P 37-843 FR	F/GB	72010-018.50	SM	CUC 7301 F	94
P 37-845 FR+SAT	F/GB	72010-016.60	SM	CUC 7300 F	95
P 37-846 FR	F/GB	72010-019.60 72010-019.61 72010-019.62	SM 1. Supp. 2. Supp.	CUC 7303 F	97
P 3770	D/GB	72010-017.60	SM	G 1000	94
P 40-050	D/GB	72010-012.60	SM	CUC 5303	92
P 40-060	D/GB	72010-013.60	SM	CUC 6300	93
P 40-060 OIRT	D/GB	72010-013.60	SM	CUC 6300	93
P 40-64 FR/FM/CL	F/GB	72010-016.40	SM	CUC 6301 F	95
P 40-64/4 ASIS	D/GB	72010-014.80 72010-014.81	SM 1. Supp.	CUC 6301	95
P 40-64/4 FM/CL	D/GB	72010-014.80	SM	CUC 6301	94
P 40-640 TEXT D/I/F		72010-013.60	SM	CUC 6300	93
P 40-740 TOP	D/GB	72010-015.40	SM	CUC 6300	94
P 42-060	D/GB	72010-013.60	SM	CUC 6300	93
P 45-540 ASIS	D/GB	72010-012.70	SM	CUC 5301	92
P 45-540 DS / ASIS	D/GB	72010-012.70	SM	CUC 5301	92
P 45-64/4 ASIS	D/GB	72010-014.80 72010-014.81	SM 1. Supp.	CUC 6301	95
P 45-640 FT/GB	D/GB	72010-013.60	SM	CUC 6300	93
P 45-640 OIRT	D/GB	72010-013.60	SM	CUC 6300	93
P 45-640 TEXT	D/GB	72010-013.60	SM	CUC 6300	93
P 45-731 text	D/GB	72010-019.40	SM	CUC 7303	96
P 45-740 TOP	D/GB	72010-015.40	SM	CUC 7300	94
P 45-841 FR	F/GB	72010-019.60	SM	CUC 7303 F	96
P 45-843 FR	F/GB	72010-019.46	SM	CUC 7303	96
P 45-845 FR	F/GB	72010-016.60	SM	CUC 7300 F	95
P 50-540 FT/GB	D/GB	72010-010.50 72010-010.51	SM 1. Supp.	CUC 5301	92
P 50-640 FT/GB	D/GB	72010-013.60	SM	CUC 6300	93
P 50-640 TEXT	D/GB	72010-013.60	SM	CUC 6300	93
Salzburg ST 770 TOP	D/GB	72010-015.00	SM	CUC 6360	94
Salzburg ST 770 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03	SM 1. Supp. 2. Supp. 3. Supp.	CUC 6360	94
SE 4264	D/GB	72010-012.60	SM	CUC 5303	92
SE 4264 TEXT	D/GB	72010-013.60	SM	CUC 6300	93
SE 5564 TEXT	D/GB	72010-013.60	SM	CUC 6300	93
SE 5574 TOP	D/GB	72010.015.40	SM	CUC 7300	94
SE 6367 TEXT	D/GB	72010-011.40	SM	CUC 5361	92

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Set		Part.No.	Typ	CUC	
SE 6367 TEXT	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
SE 6376 TOP	D/GB	72010.015.00	SM	CUC 6360	94
SE 6376 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 6360	96
SE 7016/9 Ref./PIP Trento		72010-019.90	SM	CUC 1952	97
SE 7065 TEXT	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
SE 7066/8 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
SE 7075 TEXT	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
SE 7085 TEXT		72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp..	CUC 5360	93
SE 7086 TOP		72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
SE 7087 TOP/LOG		72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1824	95
SE 7088 IDTV		72010-014.20 72010-014.21 72010-014.22 72010-014.23	SM 1. Supp. 2. Supp. 3. Supp.	CUC 1824	95
SE 7089 IDTV/LOG		72010-019.30	SM	CUC 1825	96
SE 7277 text		72010-016.90 72010-016.91	SM 1. Supp.	CUC 6331	96
SE 7286 TOP		72010-014.00	SM	CUC 5365	93
SE 7287 TOP		72010-015.00	SM	CUC 6365	94
SE 7287 TOP/LOG		72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 6360	95
SE 7288 IDTV		72010-014.20	SM	CUC 1822	93
SE 7288/9 IDTV	D/GB	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1822	94
SE 8216/9 Ref./PIP Denver		72010-019.90	SM	CUC 1984	97
SER 6350	D/GB	72010-015.00	SM	CUC 6360	94
SER 7300	D/GB	72010-015.40	SM	CUC 7300	94
ST 55-725 FT/GB	D/GB	72010-016.80 72010-016.81	SM 1. Supp.	CUC 7350	96
ST 55-750 text	D/GB	72010-016.80 72010-016.81	SM 1. Supp.	CUC 7350	94
ST 55-750/9 text	D/GB	72010-016.80 72010-016.81	SM 1. Supp.	CUC 7350	94
ST 55-753 FR/NIC	D/GB	72010-016.20	SM	CUC 5350 F	95
ST 55-800 text	D/GB	72010-016.80 72010-016.81 72010-016.83	SM 1. Supp. 3. Supp.	CUC 7350	94

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Set		Part.No.	Typ	CUC	
ST 55-800/9 text	D/GB	72010-016.80 72010-016.81 72010-016.83	SM 1. Supp. 3. Supp.	CUC 7350	94
ST 55-801/9 text	D/GB	72010-016.80 72010-016.81 72010-016.83 72010-016.84 72010-016.85	SM 1. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 7350	94
ST 55-875 FR/NIC	D/GB	72010-016.20 72010-016.21	SM 1. Supp.	CUC 5350 F	95
ST 55-876/9 TEXT	D/GB	72010-016.80 72010-016.81	SM 1. Supp.	CUC 7350	95
ST 55-95 ECO	D/GB	72010-016.80 72010-016.81 72010-016.83	SM 1. Supp. 3. Supp.	CUC 7350	94
ST 63-160 IDTV	D/GB	72010-014.20	SM	CUC 1822	94
ST 63-160a IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25 72010-014.26	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 1822	96
ST 63-255 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1825	96
ST 63-255/8 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1825	96
ST 63-650 TEXT	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 63-650/8 TOP	D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	CUC 5360	94
ST 63-651/9 TOP	D/GB	72010-015.00	SM	CUC 6360	94
TV ST 63-655/8 FT/GB	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 63-655/8 TOP		72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 63-660 TOP+A TOP		72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 63-671 TEXT		72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
ST 63-700 DPL/NIC/FT	D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2040 N	97
ST 63-700 FR	F/GB	72010-020.80	SM	CUC 2030	97
ST 63-700 NIC/FT	D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2030 N	97
ST 63-700 NIC/text	D/GB	72010-020.70	SM	CUC 2030 N	97
ST 63-700 NIC/TOP	D/GB	72010-020.70	SM	CUC 2030 N	97
ST 63-700 text	D/GB	72010-020.70	SM	CUC 2030	97
ST 63-710 NIC/text	D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2030 N	97
ST 63-720/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 63-720/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 63-725/8 FT/GB	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96

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Set		Part.No.	Typ	CUC	
ST 63-725/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 63-750 text	D/GB	72010-016.90	SM	CUC 6330	94
ST 63-750/9 TOP	D/GB	72010-015.00 72010-015.01	SM 1. Supp.	CUC 6360	95
ST 63-755 TOP	D/GB	72010-015.00	SM	CUC 6360	94
ST 63-755 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 6360	95
ST 63-755/9 TOP	D/GB	72010-015.00	SM	CUC 6360	94
ST 63-755/9 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 6360	96
ST 63-760 TOP	D/GB	72010-014.00	SM	CUC 5365	93
ST 63-760/8 TOP	D/GB	72010-014.00	SM	CUC 5365	93
ST 63-760/9 DPL	D/GB	72010-014.70	SM	CUC 7861	94
ST 63-761 TOP	D/GB	72010-015.00	SM	CUC 6365	94
ST 63-761/9 TOP	D/GB	72010-015.00	SM	CUC 6365	94
ST 63-780 NIC/TOP	D/GB	72010-020.70	SM	CUC 2031 N	97
ST 63-780 text	D/GB	72010-020.70	SM	CUC 2031	97
ST 63-781 IDTV	D/GB	72010-014.20	SM	CUC 1823	93
ST 63-800 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06 72010-015.07	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp. 7. Supp.	CUC 6360	96
ST 63-800/9 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06 72010-015.07	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp. 7. Supp.	CUC 6360	96
ST 70-100 IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1824	95
ST 70-150 IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 1824	95
ST 70-155 IDTV	D/GB	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1824	94

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Set		Part.No.	Typ	CUC	
ST 70-155/9 IDTV	D/GB	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1822	94
ST 70-160 IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 1824	95
ST 70-160/9 IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 1824	95
ST 70-169 TOP	D/GB	72010-013.50	SM	CUC 7951	93
ST 70-169/9 TOP	D/GB	72010-013.50	SM	CUC 7951	93
ST 70-255 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1825	96
ST 70-255/8 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1825	96
ST 70-270 IDTV		72010-019.30 72010-019.31 72010-019.32 72010-019.33	SM 1. Supp. 2. Supp. 3. Supp.	CUC 1825	97
ST 70-270/8 IDTV		72010-019.30 72010-019.31 72010-019.32 72010-019.33	SM 1. Supp. 2. Supp. 3. Supp.	CUC 1825	97
ST 70-550/8 text	D/GB	72010-011.40	SM		92
ST 70-650 text	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 70-650/8 text	D/GB	72010-011.40	SM	CUC 5360	92
ST 70-651/9 TOP	D/GB	72010-015.00	SM	CUC 6360	94
ST 70-655/8 FT/GB	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 70-655/8 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 70-657 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 70-665 text	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 70-670 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
ST 70-670/8 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
ST 70-675 TOP	D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	CUC 5361	94
ST 70-700 FR	F/GB	72010-020.80	SM	CUC 2030	97
ST 70-700 NIC/FT	D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2030 N	97
ST 70-700 NIC/text	D/GB	72010-020.70	SM	CUC 2030 N	97
ST 70-700 NIC/TOP	D/GB	72010-020.70	SM	CUC 2030 N	97
ST 70-700 text	D/GB	72010-020.70	SM	CUC 2030	97
ST 70-705 TOP	D/GB	72010-015.00	SM	CUC 6360	94
ST 70-705/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	95

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Set		Part.No.	Typ	CUC	
ST 70-705/9 TOP	D/GB	72010-015.00 72010-015.01 72010-015.02	SM 1. Supp. 2. Supp.	CUC 6360	95
ST 70-705/9 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 6360	95
ST 70-710 DPL/NIC/FT	D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2040 N	97
ST 70-710 NIC/text	D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2030 N	97
ST 70-720/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 70-721/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 70-725/8 FT/GB	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 70-725/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 70-728 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
ST 70-745 text	D/GB	72010-016.90	SM	CUC 6330	94
ST 70-750 text	D/GB	72010-016.90	SM	CUC 6330	95
ST 70-750/9 TOP	D/GB	72010-015.00 72010-015.01	SM 1. Supp.	CUC 6360	95
ST 70-755 TOP LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03	SM 1. Supp. 2. Supp. 3. Supp.	CUC 6360	94
ST 70-755 TOP+SAT	D/GB	72010-015.00	SM	D/F/I CUC 6360	94
ST 70-755/9 TOP	D/GB	72010-015.00	SM	CUC 6360	94
ST 70-755/9 TOP LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 6360	94
ST 70-755/9/DPL/LOG	D/GB	72010-018.70	SM	CUC 6469	96
ST 70-760 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 6360	95
ST 70-770 text	D/GB	72010-016.90 72010-016.91 72010-016.92 72010-016.93	SM 1. Supp. 2. Supp. 3. Supp.	CUC 6330	94
ST 70-778 text	D/GB	72010-016.90 72010-016.91 72010-016.92 72010-016.93 72010-016.94	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 6330	94
ST 70-780 FR /TOP	F/GB	72010-020.80	SM	CUC 2030	97
ST 70-780 NIC/TOP	D/GB	72010-020.70	SM	CUC 2030 N	97
ST 70-780 text	D/GB	72010-020.70	SM	CUC 2030 N	97

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set		Part.No.	Typ	CUC	
ST 70-800 TOP/LOG	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 6360	96
ST 70-800/9 TOP/LO	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.	CUC 6360	96
ST 70-809	D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06 72010-015.07	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp. 7. Supp.	CUC 6360	96
ST 70-869 IDTV	D/GB	72010-019.30 72010-019.31	SM 1. Supp.	CUC 1826	96
ST 70-907 text	D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	CUC 5360	94
ST 70-93 text	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	92
ST 70-94 text	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	94
ST 70-95 TOP	D/GB	72010-015.00 72010-015.01 72010-015.02	SM 1. Supp. 2. Supp.	CUC 6360	95
ST 70-97 IDTV		72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1825	97
ST 7003	D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	CUC 5360	93
ST 7003/8	D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	CUC 5360	93
ST 7004	D/GB	72010-015.00	SM	CUC 6360	94
ST 72-01 IDTV	D/GB	72010-019.30 72010-019.31 72010-019.32 72010-019.33	SM 1. Supp. 2. Supp. 3. Supp.	CUC 1826	97
ST 72-160 IDTV	D/GB	72010-014.20	SM	CUC 1822	93
ST 72-160/9 IDTV	D/GB	72010-014.20 72010-014.21	SM 1. Supp.	CUC 1822	94
ST 72-161 IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22	SM 1. Supp. 2. Supp.	CUC 1822	95
ST 72-161/9 IDTV	D/GB	72010-014.20 72010-014.21 72010-014.22	SM 1. Supp. 2. Supp.	CUC 1822	95
ST 72-1772 TOP	D/GB	72010-015.00	SM	CUC 6365	94
ST 72-1772/9 TOP	D/GB	72010-015.00	SM	CUC 6365	94

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set		Part.No.	Typ	CUC	
ST 72-261 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1825	96
ST 72-261/8 IDTV/LOG	D/GB	72010-019.30	SM	CUC 1826	96
ST 72-261/8 IDTV/LOG	D/GB	72010-019.30	SM 1. Supp.	CUC 1826	96
ST 72-760 MD/TOP	D/GB	72010-014.00	SM	CUC 5365	94
ST 72-760 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6331	96
ST 72-760 TOP	D/GB	72010-014.00	SM	CUC 5365	93
ST 72-760/8 text	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6331	96
ST 72-760/8 TOP	D/GB	72010-014.00	SM	CUC 5365	93
ST 72-761 SAT	D/GB	72010-014.00	SM	CUC 6365	94
ST 72-761/9 TOP	D/GB	72010-015.00	SM	CUC 6365	94
ST 72-762 TOP	D/GB	72010-015.00 72010-015.01	SM 1. Supp.	CUC 6365	95
ST 72-762/9 TOP	D/GB	72010-015.00 72010-015.01	SM 1. Supp.	CUC 6365	95
ST 72-764 SAT	D/GB	72010-014.10	SM	CUC 7820	93
ST 72-860 FR /TOP	F/GB	72010-020.80	SM	CUC 2031 F	97
ST 72-860 NIC/TOP	D/GB	72010-020.70	SM	CUC 2031 N	97
ST 72-860 TOP	D/GB	72010-020.70	SM	CUC 2031	97
ST 72-865 NIC/TOP	D/GB	72010.020.70 72010.020.71	SM 1. Supp.	CUC 2031 N	97
ST 82-775 TOP	D/GB	72010-013.10	SM		92
ST 82-775/9 PIP/TOP	D/GB	72010-013.10	SM	CUC 7880/7890	92
ST 82-775/9 TOP	D/GB	72010-013.10	SM	CUC 7880/7890	92
ST 84-796/9 TOP/LOG	D/GB	72010-017.70	SM	CUC 6380	94
ST 95-775/9 PIP/TOP	D/GB	72010-013.10	SM	CUC 7880/7890	92
STC 400 EV	D/GB	72010-011.90	SM		92
STC 43	D/GB	72010-019.70	SM		92
STC 45	D/GB	72010-019.70	SM		92
STC 80	D/GB	72010-018.60 72010-018.61	SM 1. Supp.		97
STC 850 STC 800/0	D/GB	72010-015.50	SM		95
STC 1600	D/GB	72010-015.90	SM		95
STC 1600/0	D/GB	72010-015.90	SM		95
STC 1650	D/GB	72010-018.00	SM		96
STE 1000	D/GB	72010-019.00	SM		96
STEELER	D/GB	72010-013.60	SM	CUC 6300	93
STEELER GB	D/GB	72010-013.60	SM	CUC 6300	93
Stockholm ST 1670 text	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
Stockholm ST 2670 TEXT	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
Stockholm ST 3670 TEXT	D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	CUC 5360	93
STR 100 DX	D/GB	72010-021.00	SM		97

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
STR 100 FR MicroSAT D/GB	72010-019.20	SM		96
STR 100 MicroSAT D/GB	72010-018.20	SM		96
STR 110 DX D/GB	72010-020.90	SM		97
STR 211 D/GB	72010-012.30	SM		92
STR 310 D/GB	72010-015.80	SM		95
STR 310/1 D/GB	72010-015.80	SM		95
STR 311 D+FR D/GB/F	72010-013.90	SM		93
STR 312 D+FR D/GB/F	72010-013.90	SM		93
STR 320 D/GB	72010-015.80	SM		95
STR 320/1 D/GB	72010-015.80	SM		95
STR 322 TWIN D/GB	72010-016.30	SM		95
STR 322 TWIN FR F/GB	72010-017.90	SM		95
STR 325 D/GB	72010-015.80	SM		95
STR 400 AP D/GB	72010-014.40	SM		93
STR 410 D/GB	72010-015.80 72010-015.81	SM 1. Supp.		95
STR 420 D/GB	72010-015.80 72010-015.81	SM 1. Supp.		95
STR 501 D/GB	72010-018.30	SM		95
STR 501 FR F/GB	72010-018.40	SM		95
STR 502 D/GB	72010-018.30	SM		95
STR 502 FR F/GB	72010-018.40	SM		95
STR 511 D/GB	72010-016.70	SM		95
STR 511 FR F/GB	72010-018.10	SM		95
STR 512 D/GB	72010-016.70	SM		95
STR 512 FR F/GB	72010-018.10	SM		95
STR 535 N MAC D/GB	72010-018.00	SM		96
STR 600 AP D/GB	72010-021.20	SM		97
STR 622 TWIN D/GB	72010-021.30	SM		97
STR 631 D/GB	72010-020.30	SM		96
STR 631 D/GB	72010-020.30	SM		97
STR 631 FR F/GB	72010-020.40	SM		97
STR 632 D/GB	72010-020.30	SM		96
STR 632 D/GB	72010-020.30	SM		97
STR 632 FR F/GB	72010-020.40	SM		97
STR 641 + FR D/GB/F	72010.020.30 72010.020.31	SM 1. Supp.		97
STR 642 + FR D/GB/F	72010.020.30 72010.020.31	SM 1. Supp.		97
Sydney 72 ST 1772 TOP/LOG D/GB	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 6360	95
Sydney 72 ST 772 TOP	72010-014.00	SM	CUC 5365	93
Sydney 72 ST 772/8 TOP	72010-014.00	SM	CUC 5365	93
Sydney S ST 2670 TOP D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
Sydney S ST 2670/8 TOP	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
Sydney ST 72-772 TOP D/GB	72010-014.00	SM	CUC 5365	93
Sydney ST 72-772/8 TOP	72010-014.00	SM	CUC 5365	93
Sydney ST 872 text D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6331	96
Sydney ST 872/8 text D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6331	96
Sydney100 SE 7020 IDTV/LOG D/GB	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1826	97
Sydney100/8 SE 7020/8 IDTV/LOG D/GB	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1826	97
T 20-6210/4 text D/GB	72010-019.80	SM	CUC 400	96
T 20-6210/6 D/GB	72010-019.80	SM	CUC 400	96
T 20-6210/6 text D/GB	72010-019.80	SM	CUC 400	96
T 20-6210/8 D/GB	72010-019.80	SM	CUC 400	96
T 20-6210/8 text D/GB	72010-019.80	SM	CUC 400	96
T 21-6210/4 D/GB	72010-019.80	SM	CUC 400	96
T 21-6210/4 text D/GB	72010-019.80	SM	CUC 400	96
T 21-6210/6 D/GB	72010-019.80	SM	CUC 400	96
T 21-6210/6 text D/GB	72010-019.80	SM	CUC 400	96
T 21-6210/8 D/GB	72010-019.80	SM	CUC 400	96
T 21-6210/8 text D/GB	72010-019.80	SM	CUC 400	96
T 44-64/ASIS D/GB	72010-014.80 72010-014.81	SM 1. Supp.	CUC 6301	95
T 45-845 FR F/GB	72010-016.60	SM	CUC 7300 F	95
T 51-040 P/S D/GB	72010-012.60	SM	CUC 5303	92
T 51-050 D/GB	72010-012.60	SM	CUC 5303	92
T 51-050 OIRT D/GB	72010-012.60	SM	CUC 5303	92
T 51-060 D/GB	72010-013.60	SM	CUC 6300	93
T 51-070 D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	95
T 51-071 D/GB	72010-019.40	SM	CUC 7303	96
T 51-3035 text D/GB	72010-019.40 72010-019.41 72010-019.42	SM 1. Supp. 2. Supp.	CUC 7303	97
T 51-640 FT/GB D/GB	72010-013.60	SM	CUC 6300	94
T 51-640 text D/GB	72010-013.60	SM	CUC 6300	93
T 51-640a text D/GB	72010-013.60 72010-013.61 72010-013.62	SM 1. Supp. 2. Supp.	CUC 6300	93
T 51-711 text D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	94
T 51-720 text D/GB	72010-019.40	SM	CUC 7303	96
T 51-720 text/GB D/GB	72010-019.40	SM	CUC 7303	96
T 51-721/5 D/GB	72010-019.80	SM	CUC 400	96
T 51-721/5 text D/GB	72010-019.80	SM	CUC 400	96

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Part.No.	Typ	CUC	
T 51-730 MegASIS D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84 72010-017.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 7301	97
T 51-730 MegASIS D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84 72010-017.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 7301	97
T 51-730 text D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	94
T 51-730 text ASIS D/GB	72010-017.80 72010-017.81 72010-017.82	SM 1. Supp. 2. Supp.	CUC 7301	96
T 51-730/5 MegASIS D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84 72010-017.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 7301	97
T 51-730/5 text D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	95
T 51-730/5 text ASIS D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	93
T 51-731 text	72010-019.40	SM	CUC 7303	96
T 51-731/5 text	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	95
T 51-732/5 text	72010-019.40	SM	CUC 7303	96
T 51-843 FR	72010-017.70	SM	CUC 7301 F	94
T 51-846 FR	72010-019.60	SM	CUC 7303 F	96
T 55-050	72010-012.60	SM	CUC 5303	92
T 55-060	72010-013.60	SM	CUC 6300	93
T 55-3035 D/GB	72010-019.40 72010-019.41 72010-019.42 72010-019.43	SM 1. Supp. 2. Supp. 3. Supp.	CUC 7303	97
T 55-3035 text D/GB	72010-019.40 72010-019.41 72010-019.42	SM 1. Supp. 2. Supp.	CUC 7303	97
T 55-540 ASIS	72010-012.70	SM	CUC 5301	92
T 55-540 DS / ASIS	72010-012.70	SM	CUC 5301	92
T 55-546 text	72010-010.50 72010-010.51	SM 1. Supp.	CUC 5301	92
T 55-64 FR/FM/CL	72010-016.40	SM	CUC 6301 F	95
T 55-64/4 ASIS	72010-014.80 72010-014.81	SM 1. Supp.	CUC 6301	96
T 55-64/4 FM/CL D/GB/I	72010-014.80	SM	CUC 6301	94
T 55-640 FT/GB	72010-013.60	SM	CUC 6300	93
T 55-640 I/text	72010-013.60	SM	CUC 6300	93
T 55-640 OIRT	72010-013.60	SM	CUC 6300	93
T 55-640 text	72010-013.60 72010-013.61	SM 1. Supp.	CUC 6300	93

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set		Part.No.	Typ	CUC	
T 55-645 text	D/GB	72010-017.60	SM	G 1000	94
T 55-645 text	D/GB	72010-017.60	SM	G 1000	95
T 55-730	D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	94
T 55-730 MegASIS	D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84 72010-017.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 7301	97
T 55-730 text	D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	96
T 55-730 text /GB	D/GB	72010-017.80 72010-017.81 72010-017.82	SM 1. Supp. 2. Supp.	CUC 7301	96
T 55-730 text ASIS	D/GB	72010-017.80 72010-017.81 72010-017.82	SM 1. Supp. 2. Supp.	CUC 7301	96
T 55-730/5 MegASIS	D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84 72010-017.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.	CUC 7301	97
T 55-730/5 text	D/GB	72010-017.80 72010-017.81	SM 1. Supp.	CUC 7301	94
T 55-730/5 text ASIS	D/GB	72010-017.80 72010-017.81 72010-017.82	SM 1. Supp. 2. Supp.	CUC 7301	96
T 55-730/5 text ICN	D/GB	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.	CUC 7301	97
T 55-731 FT/GB	D/GB	72010-019.40	SM	CUC 7303	96
T 55-731 FT/IR	D/GB	72010-019.40 72010-019.41 72010-019.42	SM 1. Supp. 2. Supp.	CUC 7303	96
T 55-731 text	D/GB	72010-019.40	SM	CUC 7303	96
T 55-731/5 text	D/GB	72010-017.80 72010-017.81 72010-017.82	SM 1. Supp. 2. Supp.	CUC 7301	96
T 55-732/5 text		72010-019.40	SM	CUC 7303	96
T 55-733/5 text		72010-019.40	SM	CUC 7303	96
T 55-740 SAT		72010-015.40	SM	CUC 7300	94
T 55-740 TOP		72010-015.40	SM	CUC 7300	94
T 55-740/6 TOP	D/GB	72010-017.40	SM	CUC 7302	94
T 55-841 FR	F/GB	72010-019.60	SM	CUC 7303 F	96
T 55-843 FR	F/GB	72010-017.70	SM	CUC 7301 F	94
T 55-845 FR	F/GB	72010-016.60	SM	CUC 7300 F	95
T 55-846 FR	F/GB	72010-019.60 72010-019.61 72010-019.62	SM	CUC 7303 F	97
T 5570	D/GB	72010-017.60	SM	G 1000	94
T 5570 text	D/GB	72010-017.60	SM	G 1000	94

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set		Part.No.	Typ	CUC	
T 63-640 A FT/GB	D/GB	72010-013.80	SM	CUC 6310	93
T 63-640 A text	D/GB	72010-013.80	SM	CUC 6310	93
T 63-640 DS	D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	92
T 63-640 FT/GB	D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	92
T 63-640 l/text	D/GB	72010-013.80	SM	CUC 6310	93
T 63-640 OIRT	D/GB	72010-013.80	SM	CUC 6310	93
T 63-640 text	D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	92
T 63-640 TF/E	D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	93
T 70-549	D/GB	72010-012.50	SM	CUC 5312	92
T 70-640 A FT/GB	D/GB	72010-013.80	SM	CUC 6310	93
T 70-640 A text	D/GB	72010-013.80	SM	CUC 6310	93
T 70-640 DS	D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	92
T 70-640 DS/TF/E	D/GB	72010-011.00	SM	CUC 5310	92
T 70-640 FT/GB	D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	92
T 70-640 OIRT	D/GB	72010-013.80	SM	CUC 6310	93
T 70-640 text	D/GB	72010-011.00 72010-011.01	SM 1. Supp.	CUC 5310	92
T 70-740 FT/GB	D/GB	72010-013.80 72010-013.81	SM 1. Supp.	CUC 6310	96
T 70-740 text	D/GB	72010-013.80 72010-013.81 72010-013.82	SM 1. Supp. 2. Supp.	CUC 6310	96
T 70-740/4 TOP	D/GB	72010-013.80 72010-013.81 72010-013.82	SM 1. Supp. 2. Supp.	CUC 6310	96
T 70-843 FR	F/GB	72010-018.30 72010-018.31	SM 1. Supp.	CUC 5310	92
Trento SE 7026 PALplus	D/GB	72010.019.90 72010.019.91	SM 1. Supp.	CUC 1952	97
TV-MAX E 55-700 TOP/LOG		72010-017.50	SM	CUC 6450	94
TV-MAX E 55-700/9 TOP/LOG		72010-017.50	SM	CUC 6450	94
TVR 3700	D/GB	72010-517.30	SM		94
TVR 3700 FR	F/GB	72010-017.05	SM		95
WIEN S ST 1663 TOP	D/GB	72010-011.40 72010-011.41 72010-011.42	SM 1. Supp. 2. Supp.	D/GB//F/NL CUC 5361	94
WIEN S ST 2663 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	D/GB//F/NL/ P	92
WIEN S ST 2663/8 TOP	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	92
Wien100 SE 6320 IDTV/LOG	D/GB	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.	CUC 1826	97
XC 701	D/GB	72010-015.00 72010-015.01 72010-015.02	SM 1. Supp. 2. Supp.	CUC 5360	93
XS 55	D/GB	72010-012.00 72010-012.01	SM 1. Supp.	CUC 5350	93
XS 55-1	D/GB	72010-016.80	SM 1. Supp.	CUC 7350	94

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set		Part.No.	Typ	CUC	
XS 55-9	D/GB	72010-016.80	SM 1. Supp.	CUC 7350	94
XS 55/8+FT/GB	D/GB	72010-012.00 72010-012.01	SM 1. Supp.	CUC 5350	93
XS 63	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 6360	93
XS 63/1	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 6360	94
XS 63/2	D/GB	72010-016.90	SM	CUC 6330	94
XS 63/8+FT/GB	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	93
XS 63/81	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
XS 63/9	D/GB	72010-015.00	SM	CUC 6360	94
XS 70	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5361	93
XS 70/1	D/GB	72010-015.00	SM	CUC 6360	94
XS 70/8+FT/GB	D/GB	72010-011.40 72010-011.41	SM 1. Supp.	CUC 5360	93
XS 70/81	D/GB	72010-016.90 72010-016.91	SM 1. Supp.	CUC 6330	96
XS 70/9	D/GB	72010-015.00	SM	CUC 6360	94

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manuals from 1992 onwards sorted by CUC

CUC	Part.No.	Typ		
CUC 1805 DIGI BASIC	72010-019.30 72010-019.31 72010-019.32	SM 1. Supp. 2. Supp.		96
CUC 1821 DIGI 4	72010-012.90	SM		92
CUC 1822/23/52 DIGI 5 CUC 1822/24/82/93 DIGI 5 CUC 1800/22 DIGI 5 CUC 1824 DIGI 5 CUC 1822/24/52/82/93 DIGI 5 CUC 1822/24/52 DIGI 5 CUC 1822/52 DIGI 5	72010-014.20 72010-014.21 72010-014.22 72010-014.23 72010-014.24 72010-014.25 72010-014.26	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp.		94
CUC 1825 DIGI BASIC	72010-019.30 72010-019.31 72010-019.32 72010-019.33	SM 1. Supp. 2. Supp. 3. Supp.		96
CUC 1826 DIGI BASIC	72010-019.30 72010-019.31 72010-019.32 72010-019.33	SM 1. Supp. 2. Supp. 3. Supp.		96
CUC 1827 DIGI BASIC +	72010-019.30 72010-019.31	SM 1. Supp.		96
CUC 1828 DIGI BASIC ++	72010-021.10	SM		96
CUC 1842 DIGI 6	72010-019.90	SM		96
CUC 1851 DIGI 4	72010-012.90	SM		92
CUC 1881 DIGI 4	72010-012.90	SM		92
CUC 1881 DIGI 4	72010-012.90 72010-012.91	SM 1. Supp.		92
CUC 1882 DIGI 5	72010-014.20 72010-014.21	SM 1. Supp.		94
CUC 1892 DIGI 4	72010-012.90 72010-012.91	SM 1. Supp.		92
CUC 1892 DIGI 4	72010-012.90	SM		92
CUC 1893 DIGI 5	72010-014.20 72010-014.21	SM 1. Supp.		94
CUC 1894 DIGI 6	72010-019.90 72010-019.91 72010-019.92	SM 1. Supp. 2. Supp.		96
CUC 1951 DDIGI 5 / 16:9	72010-016.10	SM		95
CUC 1952 DIGI 6	72010-019.90 72010-019.91	SM 1. Supp.		96
CUC 1961 DIGI 5 / DPL	72010-018.90	SM		96
CUC 1981 DIGI 4 PAL PLUS	72010-016.00 72010-016.01	SM 1. Supp.		95
CUC 1982 DIGI 5 / 16:9	72010-016.10	SM		95
CUC 1983 DIGI 6	72010-019.90 72010-019.91 72010-019.92	SM 1. Supp. 2. Supp.		96
CUC 1984 DIGI 6	72010-019.90 72010-019.91 72010-019.92	SM 1. Supp. 2. Supp.		96
CUC 2030 / N 2031 / N	72010-020.70 72010-020.71	SM 1. Supp.		96
CUC 2030 FR	72010-020.80	SM 1. Supp.		96
CUC 2040 / N	72010-020.70 72010-020.71	SM 1. Supp.		96
CUC 5200	72010-013.00	SM		92

TV

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

CUC	Part.No.	Typ		
CUC 5302 ASIS	72010-013.40	SM		92
CUC 5303	72010-012.60	SM		92
CUC 5312	72010-012.50	SM		92
CUC 5350 F	72010-016.20 72010-016.21	SM 1. Supp.		95
CUC 5365	72010-014.00	SM		94
CUC 5371	72010-013.20	SM		92
CUC 6300	72010-013.60 72010-013.61 72010-013.62	SM 1. Supp. 2. Supp.		93
CUC 6301 F	72010-016.40	SM		95
CUC 6301+ ASIS	72010-014.80 72010-014.81	SM 1. Supp.		94
CUC 6310	72010-013.80 72010-013.81 72010-013.82	SM 1. Supp. 2. Supp.		93
CUC 6310 F	72010-018.30 72010-018.31	SM 1. Supp.		93
CUC 6330/6331	72010-016.90 72010-016.91 72010-016.92 72010-016.93 72010-016.94	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp.		94
CUC 6360/6361/6365	72010-015.00 72010-015.01 72010-015.02 72010-015.03 72010-015.04 72010-015.05 72010-015.06 72010-015.07	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp. 6. Supp. 7. Supp.		94
CUC 6380	72010-017.70	SM		94
CUC 6450	72010-017.50	SM		94
CUC 6469	72010-018.70	SM		94
CUC 7300	72010-015.40 72010-015.41 72010-015.42	SM 1. Supp. 2. Supp.		94
CUC 7300 F	72010-016.60A	SM		95
CUC 7301	72010-017.80 72010-017.81 72010-017.82 72010-017.83 72010-017.84 72010-017.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.		93
CUC 7301 F	72010-018.50	SM		93
CUC 7302	72010-017.40	SM		93
CUC 7303	72010-019.40 72010-019.41 72010-019.42 72010-019.43	SM 1. Supp. 2. Supp. 3. Supp.		96
CUC 7303 F	72010-019.60 72010-019.61 72010-019.62	SM 1. Supp. 2. Supp.		96
CUC 7305	72010-019.50	SM		96

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

CUC	Part.No.	Typ		
CUC 7350	72010-016.80 72010-016.81 72010-016.82 72010-016.83 72010-016.84 72010-016.85	SM 1. Supp. 2. Supp. 3. Supp. 4. Supp. 5. Supp.		93
CUC 7820	72010-014.10	SM		93
CUC 7851	72010-013.70	SM		93
CUC 7861	72010-014.70	SM		94
CUC 7880/7890	72010-013.10 72010-013.11	SM 1. Supp.		93
CUC 7951	72010-013.50	SM		93

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Module Chart GV 200 to GV 280 S (Germany)

Bezeichnung Designation (PCB)	Sachnummer Part No.	GV 200	GV 200 VPS	GV 2092 VPS	GV 201 VPT	GV 204 VPS	GV 210	SE 2100 VPS	GV 211	GV 220 VPT	SE 2120 VPT	GV 2292 VPT	GV 230 VPT	GV 2392 VPT	GV 240 VPT	GV 2492 VPT	GV 250	GV 250 VPT	GV 280S VPT	GV 280S PC
		Archive	27505-108.01																	
Archive	27506-051.01												●	●					●	
Keyboard Control	27506-052.01																	●		
Keyboard Control	27506-053.01														●					
Keyboard Control	27506-064.01												●							
Keyboard Control	27506-073.01	●	●		●		●													
Keyboard Control	27506-074.01								●	●										
Keyboard Control	27506-077.01										●									
Keyboard Control	27506-077.02							●												
Keyboard Control 1	27506-028.01																		●	●
Keyboard Control 1	27506-055.01															●				
Keyboard Control 1	27506-055.02					●						●								
Keyboard Control 1	27506-055.03													●						
Keyboard Control 1	27506-055.04			●																
Keyboard Control 2	27506-029.01																		●	●
Keyboard Control 2	27506-056.01															●				
Keyboard Control 2	27506-056.02											●		●						
Video Head Amplifier	27506-048.02												●		●	●	●	●		
Video Head Amplifier	27506-065.01												●	●						
Video Head Amplifier	27506-072.01	●	●	●		●		●												
Video Head Amplifier	27506-072.02						●		●	●	●	●								
Video/Sound Head Amplifier	27505-079.01																		●	●
Field Store	27506-031.01																		●	●
Chassis Board	27506-041.02																		●	
Chassis Board	27506-041.03														●					
Chassis Board	27506-041.05															●				
Chassis Board	27506-041.07																●			
Chassis Board	27506-061.02												●							
Chassis Board	27506-061.03													●						
Chassis Board	27506-071.01	●	●	●		●		●												
Chassis Board	27506-071.04						●													
Chassis Board	27506-071.05								●											
Chassis Board	27506-071.08				●															
Chassis Board 1	27506-021.01																		●	●
Chassis Board 1	27506-071.06									●	●									
Chassis Board 1	27506-071.07											●								
Chassis Board 2	27506-022.01																		●	●
Chroma	27506-024.01																		●	●
DOS	27506-017.01				●					●	●	●								
Power Supply	27506-049.02														●	●				
Power Supply	27506-049.03												●	●						
Power Supply	27506-049.04																●	●		
Power Supply	27506-076.01	●	●	●	●	●	●	●	●	●	●	●								
Sound Module	27506-023.01																		●	●
Tuner-Modulator	29502-027.02	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Video 1	27506-025.01																		●	●
Video 2	27506-026.01																		●	●
Video 3	27506-027.01																		●	●
IF Amplifier	27505-080.01																		●	●

Video

Module Chart: GV 200 to GV 280 S (Export, Part 1)

Bezeichnung Designation	Sachnummer Part No.	GV 200 GB	MV 2005	GV 201 GB	GV 201-1 *	MV 2105	MV 2115	GV 206 EURO	GV 216 EURO	GV 220 PDC	GV 240 GB	GV 240 NIC	GV 250 E	GV 250 GB	GV 250 NIC	MV 2505	GV 255 EURO	GV 280S FT/NIC/E	GV 280S FT/NIC	GV 280S T/NIC/GB
		Archive	27505-108.01																	•
Archive	27506-051.01													•	•					
Keyboard Control	27506-018.03							•	•											
Keyboard Control	27506-052.01												•	•	•	•				
Keyboard Control	27506-052.09																•			
Keyboard Control	27506-053.01										•	•								
Keyboard Control	27506-073.01	•	•	•		•														
Keyboard Control	27506-074.01						•			•										
Keyboard Control 1	27506-028.01																	•	•	•
Keyboard Control 2	27506-029.01																	•	•	•
Video Head Amplifier	27506-003.01							•												
Video Head Amplifier	27506-003.02								•											
Video Head Amplifier	27506-048.02										•	•	•	•	•	•	•			
Video Head Amplifier	27506-072.01	•		•																
Video Head Amplifier	27506-072.02					•	•			•										
Video/Sound Head Amp.	27505-079.01																	•	•	•
Field Store	27506-031.01																	•	•	•
Chassis Board	27506-015.33							•	•											
Chassis Board	27506-041.06											•								
Chassis Board	27506-041.07															•				
Chassis Board	27506-041.08														•					
Chassis Board	27506-041.10												•							
Chassis Board	27506-041.63										•									
Chassis Board	27506-041.64													•						
Chassis Board	27506-071.02		•																	
Chassis Board	27506-071.04					•														
Chassis Board	27506-071.05						•													
Chassis Board	27506-071.63	•																		
Chassis Board	27506-071.64			•																
Chassis Board 1	27506-021.01																	•	•	•
Chassis Board 1	27506-041.34																•			
Chassis Board 1	27506-071.06									•										
Chassis Board 2	27506-022.01																	•		
Chassis Board 2	27506-022.02																		•	•
Chassis Board 2	27506-043.01																•			
Chroma	27506-006.06							•												
Chroma	27506-006.07								•											
Chroma	27506-024.01																	•	•	•
CP-PI. (Canal Plus)	27506-044.03												•				•			
DOS	27506-017.01			•						•										
Erase Oscillator	27506-011.01							•	•											
Power Supply	27506-008.01							•	•											
Power Supply	27506-049.02										•	•								
Power Supply	27506-049.04												•	•	•	•	•			
Power Supply	27506-076.01	•	•	•	•	•				•				•	•	•	•			
Nicam-Decoder	27505-040.02																	•	•	•
Nicam-Decoder	27506-050.01										•	•	•	•	•					
Nicam-IF-Amplifier	27505-080.02																	•	•	
Nicam-IF-Amplifier	27505-080.64																			•
Sound	27506-023.01																	•	•	•

* see page 3-11

Video

Module Chart GV 200 to GV 280 S (Export, Part 2)

Bezeichnung Designation	Sachnummer Part No.	GV 200 GB	MV 2005	GV 201 GB	GV 201-1 *	MV 2105	MV 2115	GV 206 EURO	GV 216 EURO	GV 220 PDC	GV 240 GB	GV 240 NIC	GV 250 E	GV 250 GB	GV 250 NIC	MV 2505	GV 255 EURO	GV 280S FT/NIC/E	GV 280S FT/NIC	GV 280S T/NIC/GB
		Tuner-Modulator	29502-027.02					●	●			●								
Tuner-Modulator	29502-027.06	●		●							●			●						●
Tuner-Modulator	29502-027.09							●	●											
Video 1	27506-025.01																			
Video 2	27506-026.01																			●
Video 3	27506-027.01																			●
IF	27506-007.02							●	●											

* see page 3-11

Module Chart GV 400 to GV 437 (Part 2)

Bezeichnung Designation	Sachnummer Part No.	GV 400	GV 400 GB	GV 400 OST	GV 400 VPS	GV 401 VPT	GV 402	GV 403	GV 404 SV	GV 405 EURO	GV 406 EURO	GV 407	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	GV 417	GV 420 VPT	GV 430	GV 430 GB	GV 430 VPS	GV 434 SV	GV 435 EURO	GV 437		
		RP 10	75988-000.10	●												●																	
RP 13	75988-000.11		●				●													●						●	●	●	●				
RP 100	75988-000.14							●		●	●	●										●		●							●		
RP 30	27520-160.01				●										●	●						●	●										
RP 33	27520-171.01										●												●					●	●	●			
RP 35	27520-161.01					●																			●								
RT 130	75988-000.14		●																						●								
RT 151	75988-033.22																			●													
RT 230	75988-000.15																																
RP 409	75981-397.28												●																				
RT 750/131	75988-035.07																	●															

Module Chart GV 4000 to GV 4200

Bezeichnung Designation	Sachnummer Part No.	GV 4000 VPS	GV 4001	GV 4002 VPS	GV 4003 VPS	GV 4010 SV-VPT	GV 4092 SV	GV 4092 VPS	GV 4192 SV	GV 4200 SV-VPT	MV 4005	MV 4105	SE 4100 VPS	SE 4104 SV	SE 4120 SV
Keyboard Control	27599-002.00	●	●	●	●						●	●			
Keyboard Control	27599-002.06							●							
Keyboard Control	27599-002.07						●								
Keyboard Control	27599-002.08					●				●					
Keyboard Control	27599-002.11												●		
Keyboard Control	27599-002.14			●											
Keyboard Control	27599-002.16													●	
Keyboard Control	27599-002.17								●						
Keyboard Control	27599-002.18												●		
Keyboard Control	27599-002.29				●										
Chassis Board	27599-001.00						●	●			1)	1)	●	●	
Chassis Board	27599-001.02						●	●					●	●	
Chassis Board	27599-001.07					●				●					●
Chassis Board	27599-001.12									●					●
Chassis Board	27599-001.13		●								2)	2)			
Chassis Board	27599-001.27	●		●	●										
Chassis Board	27599-001.34				●										
Head Amplifier	27599-004.00	●	●	●	●	●	●	●			●	●	●	●	●
Head Amplifier	27599-004.01								●	●					
Tape Deck Sensor	75988-001.18	●	●	●			●	●	●	●	●	●	●	●	●
Tape Deck Sensor	75988-001.22				●										
Modulator	75988-000.27										●	●			
Modulator	75988-006.00						●	●	●				●	●	●
MSIO/VPS	75988-006.03						●	●	●				●	●	●
Power Supply	27599-003.00	●			●		●	●	●		●	●	●	●	●
Power Supply	27599-003.02												●	●	●
Power Supply	27599-003.05		●	●	●										
Power Supply	27599-003.07					●				●					
Tuner	27512-201.01						●	●	●	●			●	●	●
Tuner	75988-000.30										●	●			
RP 30	27520-160.01						●	●	●				●	●	●
RP 35	27520-161.01					●				●					
RP 10	75988-000.10	●		●											
RP 10 Minerva	75988-000.12										●				
RP 13 Minerva	75988-000.13											●			
RP 100	75988-000.14		●	●											

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

2) Chassis boards from production code "WD 30"

Video

Module Chart GV 440 to GV 470

Bezeichnung Designation	Sachnummer Part No.	GV 440	GV 440	GV 450	GV 450	GV 450	GV 450	GV 450	GV 450	GV 460	GV 460	GV 464	GV 464	GV 465	GV 469	GV 470	GV 470	GV 470			
		VPS	NIC		VPT	GB	NIC	OIRT	VPT	NIC	HiFi	NIC	OIRT	EURO	M	PC	S NIC	S VPT			GV 4592	SV-VPT
AV-socket Board PC06	no spare part																				
Archive	27599-008.50																				
Display Control PC01	no spare part																				
Display Control PC02	no spare part																				
Keyboard Control 1	27507-007.30																				
Keyboard Control 1	27507-007.31	•	•	•	•	•	•	•	•												
Keyboard Control 1	27507-007.32																			•	•
Keyboard Control 1	27599-002.24																				
Keyboard Control 1	27599-002.27										•	•	•								
Keyboard Control 2	27507-009.30																				
Keyboard Control 2	27507-009.31	•	•	•	•	•	•	•													
Keyboard Control 2	27599-002.25																				
Keyboard Control 2	27599-002.28											•	•	•							
Keyboard Control 3	no spare part *																				
Chassis Board	27507-001.30																				
Chassis Board	27507-001.32																				
Chassis Board	27507-001.33																				
Chassis Board	27507-001.34																				
Chassis Board	27507-001.35				•																
Chassis Board	27507-001.36					•															
Chassis Board	27507-001.37						•														
Chassis Board	27507-001.38																				
Chassis Board	27507-001.39																				
Chassis Board	27507-001.40	•																			
Chassis Board	27507-001.41		•																		
Chassis Board	27599-001.25																				
Chassis Board	27599-001.30																				
Chassis Board	27599-001.32																				
Chassis Board	27599-001.33																				
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	27599-004.03	•	•	•	•	•	•	•	•												
Head Amplifier	27599-004.04																				
Head Amplifier	27599-004.05																				
Head Amplifier PH02	75981-318.32																				
Tape Deck Sensor	74988-001.18	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Deck Sensor	74988-011.61																				
Multituner cpl.	75981-313.16																				
Modulator	27512-101.01	•	•	•	•																
Modulator	27512-103.01																				
Modulator	75981-318.31																				
Modulator	75988-008.10																				
Power Supply	27507-003.30	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Power Supply	27599-003.04																				
Power Supply PS02	no spare part																				
Nicam PN01	75981-318.25																				
Nicam-Decoder	27507-017.01		•				•	•		•	•										
NTSC-IF PF3	no spare part																				
OIRT	72011-035.00																				
Secam	27507-004.01																				
Control Board PD01	no spare part																				
S-VHS	27599-008.00																				
S-VHS	27599-008.01																				
Tuner	29504-201.02	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tuner Board cpl.	75981-316.44																				
RP 30	27520-160.01	•	•																		
RP 33	27520-171.01					•															
RP 35	27520-161.01								•	•	•	•	•	•	•	•	•	•	•	•	•
RP 469	75981-317.91																				

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

Module Chart GV 500 to GV 565

Designation	Part No.	Model Selections																						
		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/5	GV 560-HiFi LE	GV 560 NIC	GV 565 EURO		
Keyboard Control	27599-002.42	●	●	●	●	●		●	●	●														
Keyboard Control	27599-002.44	●	●	●	●	●		●	●	●														
Keyboard Control	27599-002.45						●																	
Keyboard Control	27599-002.46										●	●	●											
Keyboard Control	27599-002.47						●																	
Keyboard Control	27599-002.50													●	●	●	●							
Keyboard Control 1	27599-002.48													●	●	●	●		●	●	●	●	●	●
Keyboard Control 2	75988-031.84													●	●	●	●							
Keyboard Control 2	*																	●						
Chassis Board	27599-001.58		●																					
Chassis Board	27599-001.59					●				●														
Chassis Board	27599-001.60	●																						
Chassis Board	27599-001.61			●																				
Chassis Board	27599-001.62												●											
Chassis Board	27599-001.66						●																	
Chassis Board	27599-001.68													●										
Chassis Board	27599-001.69							●	●															
Chassis Board	27599-001.72										●													
Chassis Board	27599-001.74																						●	
Chassis Board	27599-001.75																●							
Chassis Board	27599-001.77													●	●	●								
Chassis Board	27599-001.78													●										
Chassis Board	27599-001.81																	●		●	●			
Chassis Board	27599-001.84					●																		
Chassis Board	27599-001.88																			●				
Chassis Board 2	27588-028.12	●	●	●				●				●	●		●									
Chassis Board 2	27588-028.13					●	●				●													
Chassis Board 2	27599-004.10																					●		
Chassis Board 2	27599-004.12																	●		●	●			
Chassis Board 2	27599-004.13														●		●							
Chassis Board 2	27599-004.14															●		●		●	●	●	●	●
Edit-Control	27599-032.16																	●	●	●	●	●	●	●
Front Board	no spare part							●																
Head Amplifier	27599-004.06												●	●	●									
Head Amplifier	27599-004.07	●	●	●	●	●	●																	
Head Amplifier	27599-004.09							●		●														
Head Amplifier	27599-004.11																	●						
Head Amplifier	27599-004.12																			●				
Head Amplifier	27599-004.15																						●	
Tape Deck Sensor	75988-001.18	●	●	●	●	●	●	●		●		●	●	●	●	●	●	●	●	●	●	●	●	●
Main Board	no spare part							●																
Modulator	27512-101.01															●	●	●	●	●	●	●	●	●
Modulator	27512-103.01																							
Modulator	75988-024.04					●	●				●													
Modulator	75988-027.97	●																						
Modulator	75988-032.74		●	●	●				●	●		●	●											
Power Supply	27599-003.11	●				●			●	●	●		●											
Power Supply	27599-003.12		●	●	●		●					●	●											
Power Supply	27599-003.14														●	●	●	●	●	●	●	●	●	●
Nicam-Decoder	27599-006.01																						●	●
Nicam-Decoder	27599-006.02																						●	●
O-Secam	27599-006.51																		●				●	●
O-VPT	27599-009.00																			●		●	●	●
O-VPT	27599-009.01																				●			●
Pre/Rec Amplifier	no spare part							●																
Synchro-Edit	75988-028.45											●	●	●										
Teletext	27599-009.00																			●		●	●	●
Terminal Board	no spare part							●																
Tuner	27512-201.01	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Video Board	kein E-Teil							●																
RP 500	75988-010.71	●	●	●	●	●	●	●	●	●	●	●	●	●										
RP 540	75988-010.73							●							●	●	●	●	●	●	●	●	●	●

Video

* integrated in the keyboard control flap, part no.

Module Chart GV 5000 to GV 5695

Designation	Part No.	Module Chart																										
		GV 5000	GV 5000 EURO	GV 5000 GB	GV 5000 SAA	GV 5000 SV	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	
Keyboard Control	27599-002.40	•	•	•	•	•	•	•	•	•	•							•	•	•	•							
Keyboard Control	27599-002.41											•	•	•	•													
Keyboard Control	27599-002.43																							•	•			
Keyboard Control	27599-002.45																	•	•									
Keyboard Control	27599-002.47																•	•										
Keyboard Control	27599-002.53																									•	•	•
Keyboard Control 1	27599-002.51																											•
Chassis Board	27599-001.51																					•						
Chassis Board	27599-001.52																											
Chassis Board	27599-001.53	•																										
Chassis Board	27599-001.54																											
Chassis Board	27599-001.55																											
Chassis Board	27599-001.57		•																									
Chassis Board	27599-001.58																											
Chassis Board	27599-001.59																											
Chassis Board	27599-001.61																											
Chassis Board	27599-001.63																											
Chassis Board	27599-001.64																											
Chassis Board	27599-001.67																											
Chassis Board	27599-001.69																											
Chassis Board	27599-001.70																											
Chassis Board	27599-001.73																											
Chassis Board	27599-001.79																											
Chassis Board	27599-001.82																											
Chassis Board	27599-001.83																											
Chassis Board	27599-001.86																											
Chassis Board	27599-001.87																											
Chassis Board 2	27588-028.12																											
Chassis Board 2	27588-028.13																											
Chassis Board 2	27599-004.12																											
Head Amplifier	27599-004.06																											
Head Amplifier	27599-004.07	•	•																									
Head Amplifier	27599-004.08			•	•																							
Head Amplifier	27599-004.16																											
Head Amplifier	27599-004.17																											
Head Amplifier	27599-004.18																											
Tape Deck Sensor	75988-018.22	•	•	•	•	•	•	•	•	•																		
Tape Deck Sensor	75988-001.18																											
Modulator	27512-101.01																											
Modulator	75988-024.04																											
Modulator	75988-024.09																											
Modulator	75988-032.74																											
Modulator	75988-324.06	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Power Supply	75988-003.10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Power Supply	27599-003.11																											
Power Supply	27599-003.12																											
Power Supply	27599-003.13																											
Power Supply	27599-003.14																											
Nicam-Decoder	27599-006.01																											
Nicam-Decoder	27599-006.02																											
O-VPT	27599-009.00																											
Secam	27599-006.51																											
Teletext	27599-009.00																											
Tuner	27512-201.01	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RP 150	75988-324.03	•	•	•	•	•	•	•	•	•	•																	
RP 500	75988-010.71																											
RP 540	75988-010.73																											

Video

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	27599-002.40		●	●					
Keyboard Control	27599-002.43							●	
Keyboard Control	27599-002.45						●		
Keyboard Control	27599-002.47						●		
Keyboard Control	27599-002.52	●							
Keyboard Control	27599-002.61				●	●			
Keyboard Control 1	27599-002.51								●
Chassis Board	27599-001.51			●		●			
Chassis Board	27599-001.52		●		●				
Chassis Board	27599-001.63							●	
Chassis Board	27599-001.67						●		
Chassis Board	27599-001.79								●
Chassis Board	27599-001.85	●							
Chassis Board 2	27588-028.12						●	●	
Chassis Board 2	27599-004.12								●
Head Amplifier	27599-004.06			●		●		●	
Head Amplifier	27599-004.07	●	●		●		●		
Tape Deck Sensor	75988-018.22	●	●	●					
Tape Deck Sensor	75988-001.18						●	●	●
Modulator	27512-101.01								●
Modulator	75988-024.09		●	●	●	●			
Modulator	75988-032.74						●	●	
Modulator	75988-324.06	●							
Power Supply	27599-003.10	●	●	●	●	●			
Power Supply	27599-003.12						●	●	
Power Supply	27599-003.14								●
Teletext	27599-009.00								●
Tuner	27512-201.01	●	●	●	●	●	●	●	●
RP 150	75988-324.03	●	●	●	●	●			
RP 500	75988-010.71						●	●	
RP 540	75988-010.73								●

Video

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 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
Tuner/Modulator	75988-035.54																		
Tuner/Modulator	75988-038.38																		
Tuner/Modulator	75988-039.41	●	●			●	●								●				
Tuner/Amplifier	75988-038.76			●				●											
RP 500	75988-010.71	●	●			●	●		●	●									
RP 500 F	75988-010.72			●				●		●									
RP 540	75988-010.73										●	●	●			●	●	●	●
RP 540 F	75988-010.74													●					
RP 609M	75988-034.00			●															

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 6396 VPT	GV 6400 EURO	GV 6400 HiFi	GV 6400 HiFi/5	GV 6400 NIC	GV 6401 NIC	GV 6596 HiFi	GV 6596 NIC
Tuner/Modulator	75988-035.54																		
Tuner/Modulator	75988-037.21				●														
Tuner/Modulator	75988-037.27	●						●					●						
Tuner/Modulator	75988-037.87		●	●		●			●	●			●		●				
Tuner/Modulator	75988-038.83							●	●						●				
Tuner/Modulator	75988-039.41							●	●			●						●	●
RP 160	75988-010.91		●	●	●	●				●	●			●	●	●	●		
RP 160 F	75988-010.92	●							●				●		●				
RP 500	75988-010.71							●	●										
RP 540	75988-010.73										●							●	●

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

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									
Tuner/Modulator	75988-035.54																		
Tuner/Modulator	75988-037.27			●															
Tuner/Modulator	75988-037.87		●		●	●	●					●							
Tuner/Modulator	75988-039.41											●							
RP 150	75988-324.03	●																	
RP 160	75988-010.91		●		●	●	●												
RP 160 F	75988-010.92			●															
RP 500	75988-010.71									●									
RP 540	75988-010.73										●								

Headwheels and Head Cylinders (Part 1)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
VS 500, 505, 510, 5180	2	47226-020.01	47226-043.50
VS 520, 525, 530	3	47226-021.01	47226-044.00
VS 540, 545, 5480	4	47226-022.01	47226-042.00
VS 550	4	47226-023.01	47226-045.50
VS 600, 610, 6190	2	47226-020.01	47226-043.50
VS 620, 630, 640, 645	4	47226-023.01	47226-045.50
VS 650	7	75986-210.22	75986-210.21
VS 660, 665, 6690	6	75986-210.08	75986-210.07
VS 680	7	75986-208.28	75986-208.27
VS 700, 705, 7000	2	47226-020.01	47226-043.50
VS 710, 715, 720, 7200	3	75986-209.19	75986-209.18
VS 740, 7400	4	47226-022.01	47226-042.00
VS 790	4	47226-023.01	47226-045.50
VS 800, 805, 810, 815	3	75986-209.19	75986-209.18
VS 900, 901, 902, 905, 9091	2	47226-020.01	47226-043.50
VS 910, 915, 920, 922, 925, 9291	3	75986-209.19	75986-209.18
VS 930	4	47226-023.01	47226-045.50
VS 940, 9491	6	75986-210.08	75986-210.07
VS 960	7	75987-265.21	75987-265.20
GV 200, 201, 206, 2092	2	47226-020.01	47226-043.50
GV 201-1	2	27599-005.07	75988-001.23
GV 204 (2-head variant)	2	47226-020.01 / 021.01	47226-043.50
GV 204 (3-head variant)	3	47226-021.02	47226-041.53
GV 210, 211, 220, 2292	3	47226-021.02	47226-041.53
GV 216	3	75986-209.19	75986-209.18
GV 230, 2392	4	75986-210.44	75986-210.43
GV 240, 250, 255, 2492	6	75986-210.31	75986-210.30
GV 280S VPT, GV 280S PC	7	75986-208.28	75986-208.27
GV 400, 400 Ost, 400 VPS, 401 VPT, 402, 404 SV, 405 EURO, 406 EURO, 4000 VPS, 4092 VPS, 4092 SV	2	27599-005.00	75988-001.33
GV 400 GB	2	27599-005.07	75988-001.33
GV 409 M	2	75981-307.13	
GV 410, 410 VPS, 411, 411 Ost, 412, 414 SV, GV 415 EURO, 416 EURO, 4192 SV, 420 VPT	3	27599-005.01	75988-002.29
GV 411-1, 411-2	6	27599-005.10	75988-002.31
GV 430..., 434 SV	4	27599-005.02	75988-002.30
GV 440..., 450..., 4592 VPT, 460..., 464..., 465 EURO	6	27599-005.03	75988-002.31
GV 469 M	6	75981-317.04	75981-317.03
GV 470S, 470 PC	7	27599-005.04	75988-002.32
GV 500 GB, 5000 SAA	2	27599-005.07	75988-001.33
GV 5000 GB	2	27599-005.16	75988-001.33
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	27599-005.08	75988-001.33
GV 510 SV, 511, 515 EURO	3	27599-005.11	75988-002.29
GV 530..., 535 EURO, 5300 (VPS (/5)), 5395 SV(/1)	4	27599-005.14	75988-023.02
GV 5305 EURO	4	27599-005.15	75988-023.02
GV 540, 5400 HiFi, GV 5400 NIC 560 (HiFi/5), 5695	6	27599-005.10	75988-002.31
GV 5400 EURO, 545 EURO, 565 EURO	6	27599-005.18	75988-002.31

Video

Headwheels and Head Cylinders (Part 2)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
GV 600.., 605, 6000.., 6001, 6066	2	27599-005.08	75988-023.03
GV 609 M	2	75988-034.06	75988-034.51 *)
GV 6096..	2	27599-005.08	75988-023.03
GV 630.., 6300 SV(/1), 6396 VPT	4	27599-005.14	75988-023.05
GV 635 EURO, 6300 EURO	4	27599-005.15	75988-023.05
GV 640.., 6400 HiFi(/5), 6400 NIC, 6401	6	27599-005.19	75988-023.06
GV 645 EURO, 6400 EURO	6	27599-005.20	75988-023.06
GV 650, 6596..	6	27599-005.19	75988-023.06
GV 660..	7	27599-005.19	75988-023.07
GV 665 EURO	7	27599-005.20	75988-023.07
GV 670..	6	27599-005.19	75988-023.06
GV 690..	7	27599-005.19	75988-023.07
GV 709 M, 729 M	2	75988-323.37	75988-323.36 *)
GV 25 SV/5	2	27599-005.08	75988-001.33
GV 26..	2	27599-005.08	75988-023.03
GV 45 SV/5	4	27599-005.12	75988-023.02
GV 46..	4	27599-005.14	75988-023.05
GVP 600 ICN EURO	2	27599-005.08	75988-001.33
KV 5001 VPS/5	2	27599-005.08	75988-001.33
KV 5301 VPS/5	4	27599-005.14	75988-023.02
MV 4005	2	27599-005.00	75988-001.33
MV 4105	3	27599-005.01	75988-002.29
SE 2100 VPS	2	47226-020.01	47226-043.50
SE 2120 VPT	3	47226-021.02	47226-041.53
SE 4100 VPS, 4104 SV	2	27599-005.00	75988-001.33
SE 4120 SV	3	27599-005.01	75988-002.29
SE 5102 SV	2	27599-005.08	75988-001.33
SE 5104 SV	4	27599-005.14	75988-023.02
SE 5106 HiFi	6	27599-005.10	75988-002.31
SE 5110 VPS	2	47226-020.01	47226-043.50
SE 5140 VPS	4	47226-022.01	47226-042.00
SE 6102 SV	2	27599-005.08	75988-023.03
SE 6104 VPT	4	27599-005.14	75988-023.05
SE 6106 HiFi	6	27599-005.19	75988-023.06
SE 6110 VT	2	47226-020.01	47226-043.50
SE 6160 VPT	6	75986-210.08	75986-210.07
SE 7120 VPT	3	75986-209.19	75986-209.18
SE 9100 VPS	2	47226-020.01	47226-043.50
SE 9120 VPT	3	75986-209.19	75986-209.18

*) = scanner cpl.

Service Manuals GV 200 to GV 280

	72010-506.75	72010-509.90	72010-510.95	72010-510.96	72010-511.45	72010-511.46	72010-511.85	72010-512.00	72010-512.01	72010-512.02	72010-512.90	72010-519.00	72010-519.01	72010-800.00
	Drive Mechanism	Drive Mechanism	Service Manual	Supplement	Service Manual	Supplement	Service Manual	Service Manual	Supplement	Service Manual	Service Manual	Service Manual	Supplement	Safety
VCR														
GV 200		●						●						●
GV 200 GB		●						●						●
GV 200 VPS		●						●						●
GV 201 GB		●						●						●
GV 201 VPT		●						●						●
GV 211-1		●										●	●	●
GV 204		●						●		●				●
GV 210		●						●						●
GV 210 VPS		●						●	●					●
GV 211		●						●						●
GV 220 PDC		●						●						●
GV 220 VPT		●						●						●
GV 230 VPT	●										●			●
GV 240 GB		●			●									●
GV 240 NIC		●			●									●
GV 240 VPT		●			●									●
GV 250	●						●							●
GV 250 E	●						●							●
GV 250 GB	●						●							●
GV 250 NIC	●						●							●
GV 250 VPT	●						●							●
GV 280 PC	●		●	●										●
GV 280 S FT/NIC	●		●											●
GV 280 S T/NIC/E	●		●											●
GV 280 S T/NIC/GB	●		●											●
GV 280 S VPT	●		●											●
GV 2092 VPS / Barcelona		●						●						●
GV 2292 VPT / Florenz		●						●						●
GV 2392 VPT / Valencia	●									●				●
GV 2492 VPT / Madrid		●			●	●								●
MV 2005		●						●						●
MV 2105		●						●						●
MV 2115		●						●						●
MV 2505	●						●							●
SE 2100 VPS		●						●						●
SE 2120 VPT		●						●						●

Video

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manuals GV 400 to GV 470 (Part 1)

	Service Manual	Supplement	Supplement	Service Manual	Supplement	Supplement	Service Manual	Supplement	Supplement	Service Manual	Supplement	Supplement	Service Manual	Supplement	Supplement	Service Manual	Supplement	Supplement	Service Manual	Supplement	Safety
	72010-514.80	72010-514.81	72010-514.82	72010-514.85	72010-514.86	72010-514.88	72010-514.90	72010-514.91	72010-514.92	72010-516.15	72010-516.20	72010-517.05	72010-517.10	72010-517.11	72010-524.00	72010-524.15	72010-800.00				
VCR																					
GV 400	●																				●
GV 400 GB	●	●																			●
GV 400 EAST	●																				●
GV 400 VPS				●																	●
GV 401 VPT				●																	●
GV 402	●																				●
GV 403			●	●		●															●
GV 404 SV				●																	●
GV 405 EURO				●																	●
GV 406 EURO				●																	●
GV 407			●	●		●															●
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				●																	●
GV 417			●	●		●															●
GV 420 VPT				●																	●
GV 430	●																				●
GV 430 GB	●	●																			●
GV 430 VPS				●																	●
GV 434 SV				●	●																●
GV 435 EURO				●																	●
GV 437			●	●		●															●
GV 440 NIC							●														●
GV 440 VPS							●														●
GV 450							●														●
GV 450 GB							●														●
GV 450 NIC							●														●
GV 450 VPT							●														●
GV 450 OIRT							●	●	●												●
GV 460 NIC							●														●
GV 460 VPT							●														●
GV 464 HiFi							●	●													●
GV 464 NIC							●	●													●
GV 464 OIRT							●	●	●												●
GV 465 EURO												●									●
GV 469 M											●										●
GV 470 PC													●	●							●
GV 470S NIC													●								●
GV 470S VPT													●								●

Video

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manuals GV 400 to GV 470 (Part 2)

	72010-514.80	72010-514.81	72010-514.82	72010-514.85	72010-514.86	72010-514.87	72010-514.88	72010-514.90	72010-514.91	72010-800.00
	Service Manual	Supplement	Supplement	Service Manual	Supplement	Supplement	Supplement	Service Manual	Supplement	Safety
VCR										
GV 4000 VPS	●	●								●
GV 4001	●		●				●			●
GV 4002 VPS	●		●				●			●
GV 4003 VPS	●		●				●			●
GV 4010 SV-VPT				●		●	●			●
GV 4092 SV / Barcelona				●	●					●
GV 4092 VPS / Barcelona				●						●
GV 4192 SV / Florenz				●						●
GV 4200 SV-VPT				●		●	●			●
GV 4592 VPT / Madrid								●		●
GV 4592 SV / Madrid								●	●	●
MV 4005	●									●
MV 4105	●									●
SE 4100 VPS				●						●
SE 4104 SV				●	●					●
SE 4120 SV				●						●

Service Manuals GV 25, GV 26, GV 45 & GV 46

	72010-519.00	72010-519.01	72010-527.25	72010-527.40	72010-800.00
	Service Manual	Supplement	Service Manual	Service Manual	Safety
VCR					
GV 25 SV/5	●	●			●
GV 45 SV/5	●	●			●
GV 26			●		●
GV 26 EURO				●	●
GV 26 VPS			●		●
GV 46					●
GV 46 VPS	●				●

Video

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manuals GV 5.. Series

	72010-518.80	72010-519.00	72010-519.01	72010-519.02	72010-519.03	72010-519.05	72010-519.40	72010-519.41	72010-519.45	72010-519.46	72010-520.90	72010-521.00	72010-800.00
	Service Manual	Service Manual	Supplement	Supplement	Supplement	Service Manual	Service Manual	Supplement	Service Manual	Supplement	Service Manual	Service Manual	Safety
VCR													
GV 500 SV							●	●					●
GV 500 SV/1							●	●					●
GV 500 GB							●	●					●
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 / LE									●				●
GV 560 HIFI / 5									●				●
GV 560 NIC									●				●
GV 565 EURO												●	●
GV 5000	●												●
GV 5000 EURO						●							●
GV 5000 GB		●											●
GV 5000 SAA		●	●										●
GV 5000 SV		●		●									●
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									●	●			●

	72010-519.00	72010-519.01	72010-519.06	72010-519.40	72010-519.41	72010-519.45	72010-800.00
	Service Manual	Supplement	Supplement	Service Manual	Supplement	Service Manual	Safety
VCR							
KV 5001 VPS/5	●	●	●				●
KV 5301 VPS/5	●	●	●				●
SE 5102 SV				●	●		●
SE 5104 SV				●	●		●
SE 5106 SV				●	●	●	●

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manuals GV 6.. Series

	72010-519.00	72010-519.04	72010-522.10	72010-527.25	72010-527.26	72010-527.30	72010-527.35	72010-527.36	72010-527.40	72010-527.45	72010-527.50	72010-528.45	72010-528.50	72010-528.95	72010-800.00
	Service Manual	Supplement	Service Manual	Service Manual	Supplement	Service Manual	Service Manual	Supplement	Service Manual	Service Manual	Service Manual	Service Manual	Service Manual	Service Manual	Safety
VCR															
GV 600 SV												●			●
GV 600 SV/1												●			●
GVP 600 ICN EURO	●	●	●												●
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 HIFI							●	●							●
GV 670 S NIC							●	●							●
GV 690 S HIFI							●	●							●
GV 690 S NIC							●	●							●
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 SV				●	●										●
GV 6400 EURO										●					●
GV 6400 HIFI							●								●
GV 6400 HIFI/5							●								●
GV 6400 NIC 1							●								●
GV 6400 NIC 2							●								●
GV 6401 NIC							●								●
GV 6596 HIFI							●								●
GV 6596 NIC							●								●
MV 6001 SV														●	●
SE 6102 SV				●	●										●
SE 6104 SV				●	●										●
SE 6106 HIFI							●								●

Video

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manuals GV 7.. Series

	72010-527.25	72010-527.26	72010-527.27	72010-527.35	72010-527.37	72010-527.55	72010-530.25	72010-530.30	72010-528.93	72010-528.94	72010-531.40	72010-531.41	72010-800.00
	Service Manual	Supplement	Supplement	Service Manual	Supplement	Service Manual	Service Manual	Service Manual	Service Training (D)	Service Training (GB)	Service Training (D)	Service Training (GB)	Safety
VCR													
GV 27							●				●	●	●
GV 27 EURO								●			●	●	●
GV 27 VPS/5							●				●	●	●
GV 47							●				●	●	●
GV 47 VPS/5							●				●	●	●
GV 7000 EURO							●	●			●	●	●
GV 7000 SV							●				●	●	●
GV 7000 SV-C							●				●	●	●
GV 7003							●				●	●	●
GV 709 M						●							●
GV 729 M						●							●
GV 7300 EURO							●	●			●	●	●
GV 7300 SV							●				●	●	●
GV 7300 SV/5							●				●	●	●
GV 740 HiFi				●	●				●	●			●
GV 740 NIC				●	●				●	●			●
GV 7400 EURO							●	●			●	●	●
GV 7400 HiFi							●				●	●	●
GV 7400 HiFi/5							●				●	●	●
GV 7400 NIC							●				●	●	●
GV 7400 NIC2							●				●	●	●
GV 7497 NIC				●	●				●	●			●
Video													
KV 7001 VPS/5							●				●	●	●
KV 7301 VPS/5							●				●	●	●
SE 7100 SV							●				●	●	●
SE 7104	●	●	●										●
SE 7105 HiFi							●				●	●	●
SE 7106 HiFi				●	●				●	●			●

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manuals TVR Combinations

Type of TVR	72010-003.00	72010-003.01	72010-003.02	72010-017.05	72010-517.30	72010-517.31	72010-524.95	72010-524.96	72010-524.97	72010-524.98	72010-525.00	72010-525.01	72010-525.02	72010-800.00
	Service Manual	Supplement	Supplement	Service Manual	Service Manual	Supplement	Service Manual	Supplement	Supplement	Supplement	Service Manual	Supplement	Supplement	Safety
TVR 3700					●									●
TVR 3700 FR				●										●
TVR 3700 GB					●	●								●
TVR 3701 SV							●	●						●
TVR 3701 SV/FR										●		●	●	●
TVR 3705							●			●				●
TVR 3705 FR											●		●	●
TVR 3710							●			●				●
TVR 3710 FR											●		●	●
TVR 3710 GB							●			●				●
TVR 3720							●			●				●
TVR 3720 GB							●			●				●
TVR 4500 CTI/Text	●	●												●
TVR 4500 GB	●	●												●
TVR 4510	●	●	●											●
TVR 5100							●			●				●
TVR 5100 FR											●		●	●
TVR 5100 GB							●	●		●				●
TVR 5120 FR											●		●	●
TVR 5500							●			●				●
TVR 5500 FR											●		●	●
TVR 5510	●	●	●											●

Video

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

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



RP 10
75988-000.10
RP 10 Minerva
75988-000.12
RT 130
75988-000.14



RP 13
75988-000.11
RP 13 Minerva
75988-000.13
RT 230
75988-000.15



RP 20
27520-159.01



RP 25
27520-158.01

Video



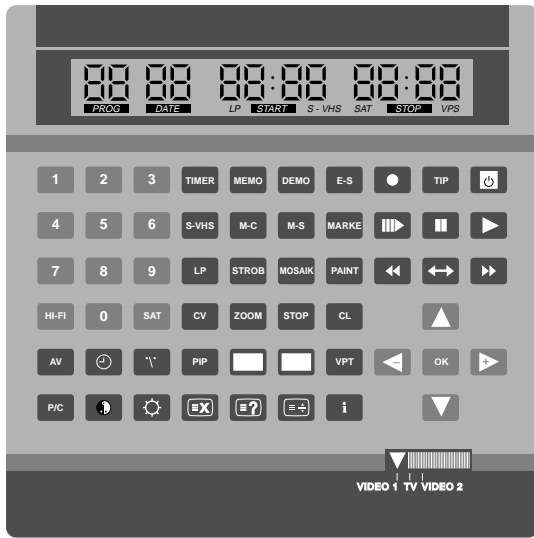
RP 30
27520-160.01



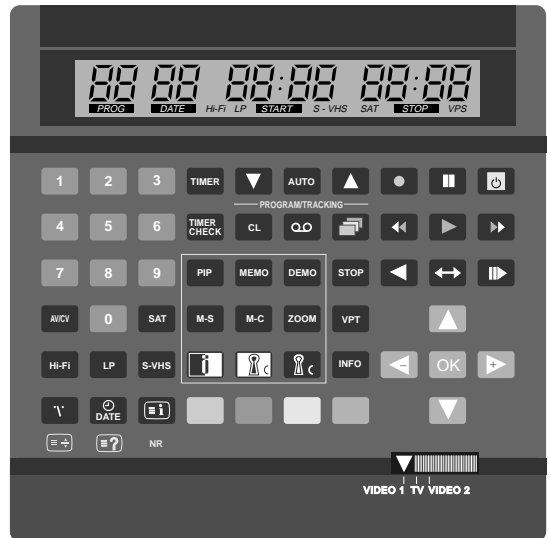
RP 33
27520-171.01



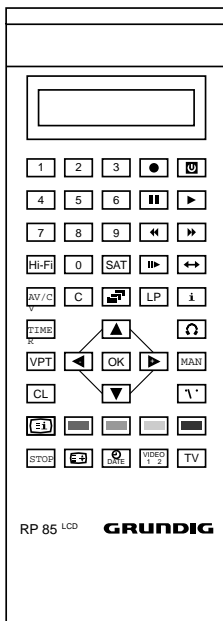
RP 35
27520-161.01



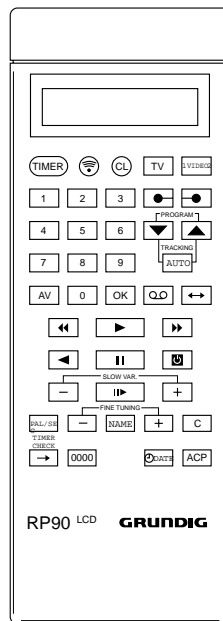
RP 80
27520-097.01



RP 81
27520-156.01



RP 85
27520-152.01



RP 90
27520-154.01



RP 95
27520-155.01

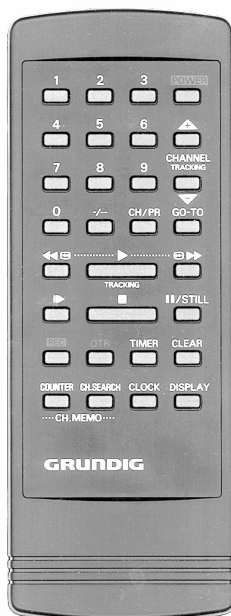
Video



RP 150
75988-324.03



RP 160
75988-010.91



RP 409
75981-307.28



RP 509
75988-232.31
RP 609
75988-034.00



RP 469
75981-317.91



RP 500
75988-010.71



RP 540
75988-010.73



RP 709/729
75988-323.31

Video



RT 750/131
75988-035.07



RT 151
75988-033.22



TVP 762
75988-017.06



RP 7
72011-650.00



Video Control 1
72011-610.00

Video Control 1
72011-610.00

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

Video Remote Control Codes Video 2000 to VS 960

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 RC 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 EAST	●	-	-	-	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 EAST	●	-	-	-	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

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 560HiFi 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

Video Remote Control Codes GV 600 to GV 690

Type of VCR				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

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 "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 locked	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
and

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 EAST	GV 411-1	GV 411-2	GV 412	GV 414 SV	GV 415 EURO	GV 416 EURO	GV 4092 SV	GV 4092 VPS	GV 4192 SV	MV 4005	MV 4105	SE 4100 VPS	SE 4104 SV	SE 4120 SV
Electronic Lock	-	1)	2)	1)	2)	2)	1)	2)	2)	2)	-	1)	2)	2)	1)	1)	-	1)	2)	2)	2)	2)	2)	2)	1)	2)	1)	1)	2)

- 1) No code. Only press the Standby button until "LOCK" (locked) or "ULOC" (unlocked) is displayed.
- 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 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 EAST	GV 411-1	GV 411-2	GV 412	GV 414 SV	GV 415 EURO	GV 416 EURO	GV 4092 SV	GV 4092 VPS	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 EAST	GV 411-1	GV 411-2	GV 412	GV 414 SV	GV 415 EURO	GV 416 EURO	GV 4092 SV	GV 4092 VPS	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	-	●	-	●	●	-	●	●	●	-	-	●	●	-	-	-	-	●	●	●	●	●	●	-	-	-	-	-
EE Mode (AV2 -> AV1) On	8 5 1 3	-	●	-	●	●	-	●	●	●	-	-	●	●	-	-	-	-	●	●	●	●	●	●	-	-	-	-	-
EE 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	-	●	-	●	●	-	●	●	●	-	-	●	●	-	-	-	-	●	●	●	●	●	●	-	-	-	-	-

Video

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)	1)	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.

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

Press the "Code" button, enter code 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	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●	●

Video

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

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

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
V-insertion On	8 5 1 0	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
V-insertion Off	8 5 1 1	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EE Mode (AV2 -> AV1) On	8 5 1 3	●	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EE Mode (AV2 -> AV1) Off	8 5 1 4	●	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AV-Switching Voltage On	8 5 1 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-
AV-Switching Voltage 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 the 10 Bit Code free	8 5 2 6	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
Reception of the 10 Bit Code locked	8 5 2 7	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
Pause V-pulse Adjustment	8 5 2 8	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
Automatic 16:9 Identification Off	8 5 3 2	-	-	-	-	-	-	●	-	-	●	●	●	●	●	●	●	-	-	-	-	●	●
Automatic 16:9 Identification On	8 5 3 3	-	-	-	-	-	-	●	-	-	●	●	●	●	●	●	●	-	-	-	-	●	●
Info Message for PAY-TV Stations Off	8 5 4 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-
Info Message for PAY-TV Stations On	8 5 4 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-
DOS 312/312 Lines On	8 5 4 6	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
DOS 312/313 Lines On	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●
Manual Station Tuning	8 5 7 0	●	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
Station Search	8 5 7 1	●	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
All Playback Speeds with the Shuttle on the Remote Control Transmitter	8 5 8 7	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
Only Picture Search Forward and Reverse with Shuttle on Remote Control Transmitter	8 5 8 8	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●
Changing the Cassette No. for the Archive	8 5 9 6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-

Video

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	●	●	●	●	●	●	·	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EE Mode (AV2 -> AV1) On	8 5 1 3	●	●	●	●	●	●	·	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EE 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	·	·	·	·	·	·	·	·	·	·	·	·	·	●	·	·	·	·	·	·	·	·	·

Video

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	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	.	.	.	.	●	●	.	.	.	●
EE Mode (AV2 -> AV1) On	8 5 1 3	.	.	.	.	.	.	.	.	.	.	●	●	●	●	●	.	.	.	.	●	●	.	.	.	●
EE 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	.	.	.	.	.	.	.	.	.	.	.	.	.	●	●	.	.	.	.	●	●	.	.	.	●

Video

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	-	-	-	-	●	●	●
EE Mode (AV2 -> AV1) On	8 5 1 3	-	-	-	-	●	●	●
EE 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	-	-	-	-	●	●	●

Video

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	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EE Mode (AV2 -> AV1) On	8 5 1 3	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EE 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	-	-	-	-	-	-	-	-	●	-	-	-	●	-	●	-	-	●

Video

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	-	-	-	-	●	●	●	-	-	-	●	-	-	-	-	-	●	●
EE Mode (AV2 -> AV1) On	8 5 1 3	-	-	-	-	●	●	●	-	-	-	●	-	-	-	-	-	●	●
EE 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	-	-	-	-	●	●	●	-	-	-	●	-	-	-	-	-	●	●

Video

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	-	-	-	•	•	•	•	•	•	•	•
EE Mode (AV2 -> AV1) On	8 5 1 3	-	-	-	•	•	•	•	•	•	•	•
EE 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	-	-	-	•	•	•	•	•	•	•	•

Video

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 EAST

- 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 und 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 ..

- 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 501 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 video recorder from the mains

Cancelling the Electronic Lock (Part 4)

GV 505 EURO, 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

- 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 511

- 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 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

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 und 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

Cancelling the Electronic Lock (Part 5)

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, GV 6396 SV, GV 6396 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

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 7xx





Information on cancelling the parental lock has not yet been available on editorial close. Please try the following: Press "CODE - 4934 - OK - STANDBY" in this order or press the "STAND-BY" button and hold it for a short time (more than 5 seconds).

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 3710

- 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 and 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

Measuring and Adjustment Equipment/Aids 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	75987-262.74	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Plate	75987-262.75	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Gauge	75987-262.87	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Dial Gauge	75987-262.76	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.1N to 1N	72001-401.00	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.5N to 5N	72001-403.00	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75987-262.96	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Reference Plate	75987-262.86	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hex Head Wrench 2mm	72004-082.00																●	●	●	●	●	●	●
Service Adapter 501	27505-033.01				●	●	●	●								●							
Service Adapter 502	27505-034.01				●	●	●	●															
Service Adapter 503	27505-036.01				●	●	●	●							●								
Service Adapter Set	72008-453.50															●							
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette FM-Sound	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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	75987-262.74	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Plate	75987-262.76	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Gauge	75987-262.87	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Height Dial Gauge	75987-262.75	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.1N to 1N	72001-401.00	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tension Gauge 0.5N to 5N	72001-403.00								●									●	●
Headwheel Extractor	75987-262.96	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Reference Plate	75987-262.86	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hex Head Wrench 2mm	72004-082.00	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Adapter 501	27505-033.01																		●
Service Adapter 502	27505-034.01																		
Service Adapter 503	27505-036.01	●	●	●	●	●	●	●			●	●	●	●	●				
Service Adapter Set	72008-453.50																		●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette FM-Sound	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Designation	Part No.	GV 201-1
Test Cassette	9.27540-1011	●
Test Cassette	9.27540-1016	●
Adapter	75987-262.73	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●
Torquemeter 600gf-cm	75987-262.72	●
Adjustment Screwdriver	75987-262.80	●
Nylon Gloves	com. available	●
Tentelometer	com. available	●
Headwheel Extractor	75988-002.37	●

Video

Measuring and Adjustment Equipment/Aids 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	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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 469 M	GV 470 PC	GV 470 S	
Test Cassette	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* see Service Manual page 1-2

Video

Measuring and Adjustment Equipment/Aids 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	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* see Service Manual page 1-2

Measuring and Adjustment Equipment/Aids 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	9.27540-1011	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S-VHS Adapter Card	75988-039.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●
S-VHS Adapter Cable	75988-039.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	●

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	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Headwheel Extractor	75988-002.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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	9.27540-1011	●	●	●	●	●	●	●	●	●	●	●	
Test Cassette	9.27540-1016	●	●	●	●	●	●	●	●	●	●	●	
Adapter	75987-262.73	●	●	●	●	●	●	●	●	●	●	●	
Tape Tension Adjustm't Handle+Pin	75988-002.27	●	●	●	●	●	●	●	●	●	●	●	
Torquemeter 600gf-cm	75987-262.72	●	●	●	●	●	●	●	●	●	●	●	
Adjustment Screwdriver	75987-262.80	●	●	●	●	●	●	●	●	●	●	●	
Nylon Gloves	com. available	●	●	●	●	●	●	●	●	●	●	●	
Tentelometer	com. available	●	●	●	●	●	●	●	●	●	●	●	

* see Service Manual page 1-2

Video

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 apparait 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.

Contents: Camcorders

Modulators and Power Supply Units for Camcorders	4.2
Accumulators for Camcorders	4.4
Back-up Batteries and Remote Control Transmitters for Camcorders	4.6
Sockets and Filter Threads of Camcorders	4.8
Camcorder Service Manuals	4.10

Cam-
corder

Modulators and Power Supply Units of Camcorders (Part 1)

Camcorder	Modulator	Part No.	Power Supply	Part No.
VS-C 20	--	--	NA 50	75987-430.04
VS-C 30	--	--	NA 50	75987-430.04
VS-C 35	M 45	75987-482.82	NA 75 A	75987-579.70
VS-C 40	M 60	75987-457.06	NA 60	75987-457.03
VS-C 45	M 45	75987-482.82	NA 80	75987-513.09
VS-C 46	M 45	75987-482.82	NA 75	75987-550.60
VS-C 50	M 50	75987-430.05	NA 50	75987-430.04
VS-C 55	M 45	75987-482.82	NA 75	75987-550.60
VS-C 60	M 60	75987-457.06	NA 60	75987-457.03
VS-C 70	M 60	75987-457.06	NA 80	75987-513.09
S-VS-C 75	M 45	75987-482.82	NA 75	75987-550.60
S-VS-C 80	M 60	75987-457.06	NA 80	75987-513.09
S-VS-C 85	M 45	75987-482.82	NA 80	75987-513.09
VS 120	in Tuner/Timer	--	NA 120	75987-331.91
VS 150	M 150	75987-357.07	NA 150	75987-356.38
VS 160	in Power Supply	--	NA 160	75987-249.72
VS 170	in Power Supply	--	NA 170	75907-710.51
S-VS 180	in Power Supply	--	NA 170	75907-710.51
VS 4-8	in VS 4-8	--	NA 8	75987-527.88
VS 8000	M 8	75987-527.89	NA 8	75987-527.88
VS 8100	M 81	75987-553.11	NA 8-1	75987-553.10
VS 8150	M 81	75987-553.11	NA 8-1 A	75987-580.40
VS 8250	M 81	75987-553.11	NA 8-2	75987-580.14
VS 8300	M 8	75987-527.89	NA 8	75987-527.88
VS 8320	M 81	75987-553.11	NA 8	75987-527.88
VS 8500	M 81	75987-553.11	NA 8	75987-527.88
VS 8800	M 81	75987-553.11	NA 8-1	75987-553.10
LC 125C	M 45	75987-482.82	NA 75	75987-550.60
LC 145E	M 81	75987-553.11	NA 8	75987-527.88
LC 175HE	M 81	75987-553.11	NA 8-1 A	75987-580.40
LC 180HE	M 81	75987-553.11	NA 8	75987-527.88
LC 210C	M 45	75987-482.82	NA 75 B	75981-277.98
LC 215C	M 45	75987-482.82	NA 75 B	75981-277.98
LC 225C	M 45	75987-482.82	NA 75 B	75981-277.98
LC 230E	M 81	75987-553.11	NA 8-2	75987-580.14
LC 232E	M 81	75987-553.11	NA 8-1	75987-553.10
LC 235E	M 81	75987-553.11	NA 8-1	75987-553.10
LC 240E	M 81	75987-553.11	NA 8-3	75981-281.51
LC 255SC	M 45	75987-482.82	NA 75 A	75987-579.70
LC 280HE	M 81	75987-553.11	NA 8-4	75981-293.40
LC 285HE	M 81	75987-553.11	NA 8	75987-527.88
LC 290N	M 45	75987-482.82	NA 190 A	75981-281.30
LC 295SN	M 45	75987-482.82	NA 190 A	75981-281.30
LC 310C	M 45	75987-482.82	NA 85	75981-295.96
LC 320C	M 45	75987-482.82	NA 90	75981-304.27
LC 330E	M 81	75987-553.11	NA 8-3	75981-281.51
LC 335E	M 81	75987-553.11	NA 8-3	75981-281.51
LC 345E	M 81	75987-553.11	NA 8-3	75981-281.51
LC 355SC	M 45	75987-482.82	NA 90	75981-304.27
LC 360SC	M 45	75987-482.82	NA 85	75981-295.96
LC 375HE	M 81	75987-553.11	NA 8-1	75987-553.10
LC 380HE	M 81	75987-553.11	NA 8-4	75981-293.40

Cam-corder

Modulators and Power Supply Units of Camcorders (Part 2)

Camcorder	Modulator	Part No.	Power Supply	Part No.
LC 400C	M 45	75987-482.82	NA 95	75981-320.27
LC 410C	M 45	75987-482.82	NA 95	75981-320.27
LC 435E	M 81	75987-553.11	NA 8-3 *	75981-281.51
LC 445E	M 81	75987-553.11	NA 8-3 *	75981-281.51
LC 450SC	M 45	75987-482.82	NA 96	75981-332.64
LC 460SC	M 45	75987-482.82	NA 96	75981-332.64
LC 475HE	M 81	75987-553.11	NA 8-3 *	75981-281.51
LC 485HE	M 81	75987-553.11	NA 8-1	75987-553.10
LC 500C	M 45	75987-482.82	NA 96	75981-332.64
LC 535E	M 81	75987-553.11	NA-L 1	75981-335.12
LC 550SC	M 45	75987-482.82	NA 96	75981-332.64
LC 560SC	M 45	75987-482.82	NA 96	75981-332.64
LC 575E	M 81	75987-553.11	NA-L 1	75981-335.12
LC 600C	M 45	75987-482.82	NA 96	75981-332.64
LC 610C	M 45	75987-482.82	NA 96	75981-332.64
LC 635E	M 81	75987-553.11	NA 8-5	75981-345.06
LC 645E	M 81	75987-553.11	NA 8-5	75981-345.06
LC 650SC	--	--	NA 96	75981-332.64
LC 675HE	M 81	75987-553.11	NA 8-6	75981-353.48
LC 685HE	M 81	75987-553.11	NA 8-6	75981-353.48
LC 695SN	M 45	75987-482.82	NA 190B	75981-348.90
LC 700C	M 45	75987-482.82	NA 96	75981-332.64
LC 735E	M 81	75987-553.11	NA 8-7	75981-355.04
LC 750SC	--	--	NA 96	75981-332.64
LC 760SC	--	--	NA 96	75981-332.64
LC 775HE	M 81	75987-553.11	NA 8-72	75981-354.64
LC 785HE	M 81	75987-553.11	NA 8-71	75981-354.02
LC-D 80E	M 81	75987-553.11	NA-L 1	75981-335.12
LC-D 100E	M 81	75987-553.11	NA-L 2	75981-338.07
DLC 1	**	**	**	**

* is optionally replaced by NA-L 1

** data not yet available on editorial close

Accumulators for Camcorders (Part 1)

Camcorder	Stand. Acc.**	Data	Part No.	Optional 2nd Accumulator
VS-C 20	BP 20	9.6V/450mAh	75987-447.08	BP 21, BP 60, BP 80
VS-C 30	BP 20	9.6V/450mAh	75987-447.08	BP 21, BP 60, BP 80
VS-C 35	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
VS-C 40	BP 60	9.6V/1100mAh	75987-457.02	BP 21, BP 60, BP 80
VS-C 45	BP 60	9.6V/1100mAh	75987-457.02	BP 21, BP 60, BP 80
VS-C 46	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
VS-C 50	BP 51	9.6V/1100mAh	75987-430.07	BP 21, BP 51, BP 52, BP 60, BP 80
VS-C 55	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
VS-C 60	BP 60	9.6V/1100mAh	75987-457.02	BP 21, BP 60, BP 80
VS-C 70	BP 60	9.6V/1100mAh	75987-457.02	BP 21, BP 60, BP 80
S-VS-C 75	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
S-VS-C 80	BP 80	9.6V/1400mAh	75987-513.07	BP 21, BP 60, BP 80
S-VS-C 85	BP 80	9.6V/1400mAh	75987-513.07	BP 21, BP 60, BP 80
VS 120	BP 121	12V/1000mAh	Ersatz BP 122	BP 121, BP 122, BP 123
VS 150	BP 151	12V/800mAh	75987-356.60	BP 151, BP 152
VS 160	BP 122	12V/2000mAh	75987-331.92	BP 121, BP 122, BP 123
VS 170	BP 122	12V/2000mAh	75987-331.92	BP 121, BP 122, BP 123
S-VS 180	BP 122	12V/2000mAh	75987-331.92	BP 121, BP 122, BP 123
VS 4-8	BP 8-1	6V/1000mAh	75987-527.90	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	75987-527.90	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	75987-553.22	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	75987-553.22	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	75987-553.22	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	75987-527.90	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	75987-527.90	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	75987-525.83	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	Ersatz 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	75987-568.87	BP 65, BP 70
LC 145E	BP 8-1	6V/1000mAh	75987-527.90	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	Ersatz 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	75987-527.90	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 210C	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
LC 215C	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
LC 225C	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
LC 230E	BP 8-4	6V/1400mAh	75987-553.22	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	75987-527.90	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	75981-283.95	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	75981-283.95	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 255SC	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
LC 280HE	BPL 8-7	7.2V/1000mAh	75981-291.78	BPL 8-4, BPL 8-7
LC 285HE	BP 8-6	6V/1200mAh	75981-283.95	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 290N	BP 124	12V/2000mAh	75913-210.00	BP 124
LC 295SN	BP 124	12V/2000mAh	75913-210.00	BP 124
LC 310C	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70
LC 320C	BP 75	4.8V/1300mAh	75981-304.26	BP 74, BP 75, BP 85
LC 330E	BP 8-1	6V/1000mAh	75987-527.90	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	75987-527.90	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	75987-527.90	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	75981-304.26	BP 74, BP 75, BP 85
LC 360SC	BP 65	6V/1200mAh	75987-568.87	BP 65, BP 70 *
LC 375HE	BP 8-6	6V/1200mAh	75981-283.95	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	75981-291.78	BPL 8-4, BPL 8-7

Extra accessory: BP 8-3	6V/2400mAh	75909-310.00
Extra accessory: BP 52	9.6V/1400mAh	75987-430.12
Extra accessory: BP 70	6V/2400mAh	75909-610.00
Extra accessory: BP 85	4.8V/2600mAh	75913-510.00
Extra accessory: BP 123	12V/2300mAh	75909-710.00
Extra accessory: BPL 8-4	7.2V/1200mAh	75981-291.78

* 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 No.	Optional 2nd Accumulator
LC 400C	BP 74	4,8V/1200mAh	75981-320.26	BP 74, BP 75, BP 85
LC 410C	BP 74	4,8V/1200mAh	75981-320.26	BP 74, BP 75, BP 85
LC 435E	BP 8-1	6V/1000mAh	75987-527.90	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	75987-527.90	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	75981-320.26	BP 74, BP 75, BP 85
LC 460SC	BP 75	4,8V/1300mAh	75981-304.26	BP 74, BP 75, BP 85
LC 475HE	BP 8-1	6V/1000mAh	75987-527.90	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	75981-283.95	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	75981-320.26	BP 74, BP 75, BP 85
LC 535E	BP 8-1	6V/1000mAh	75987-527.90	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	75981-320.26	BP 74, BP 75, BP 85
LC 560SC	BP 74	4,8V/1200mAh	75981-320.26	BP 74, BP 75, BP 85
LC 575E	BP 8-1	6V/1000mAh	75987-527.90	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	75981-320.26	BP 74, BP 75, BP 85
LC 610C	BP 74	4,8V/1200mAh	75981-320.26	BP 74, BP 75, BP 85
LC 635E	BP 8-8	6V/800mAh	75981-352.50	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	75981-352.50	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	75981-320.26	BP 74, BP 75, BP 85
LC 675HE	BPL 8-8	7,2V/1350mAh	75981-353.49	BPL 8-8
LC 685HE	BPL 8-8	7,2V/1350mAh	75981-353.49	BPL 8-8
LC 695SN	BP 124	12V/2000mAh	75913-210.00	BP 124
LC 700C	BP 74	4,8V/1200mAh	75981-320.26	BP 74, BP 75, BP 85
LC 735E	BP 8-8	6V/800mAh	75981-352.50	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	75981-320.26	BP 74, BP 75, BP 85
LC 760SC	BP 74	4,8V/1200mAh	75981-320.26	BP 74, BP 75, BP 85
LC 775HE	BPL 8-10	7,2V/ ** mAh	75981-354.65	BPL 8-10
LC 785HE	BPL 8-8	7,2V/1350mAh	75981-353.49	BPL 8-8
LC-D 80E	BP 8-4	6V/1400mAh	75987-553.22	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	75987-553.22	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
DLC 1	**	**	**	**

Extra accessory: BP 8-3	6V/2400mAh	75909-310.00
Extra accessory: BP 52	9,6V/1400mAh	75987-430.12
Extra accessory: BP 70	6V/2400mAh	75909-610.00
Extra accessory: BP 85	4,8V/2600mAh	75913-510.00
Extra accessory: BP 123	12V/2300mAh	75909-710.00
Extra accessory: BPL 8-4	7,2V/1200mAh	75981-291.78

* 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	75987-580.02	2 x Mignon
VS 8250	CR 2025	RC 8-2	75987-580.02	2 x Mignon
VS 8300	CR 2025	-	-	-
VS 8320	CR 2025	-	-	-
VS 8500	CR 2025	-	-	-
VS 8800	CR 2025	RC 8-1	75987-559.02	2 x Mignon
LC 125C	CR 2032	-	-	-
LC 145E	CR 2025	RC 8-4	75981-273.01	2 x Mignon
LC 175HE	CR 2025	RC 8-3	75987-585.07	2 x Mignon
LC 180HE	CR 2025	RC 8-5	75981-271.19	2 x Mignon
LC 210C	CR 2032	-	-	-
LC 215C	CR 2032	-	-	-
LC 225C	CR 2032	-	-	-
LC 230E	CR 2025	RC 8-6	75987-585.07	CR 2025
LC 232E	CR 2025	-	-	-
LC 235E	CR 2025	RC 8-4	75981-273.01	2 x Mignon
LC 240E	CR 2025	RC 8-7	75981-282.15	2 x Mignon
LC 255SC	CR 2032	-	-	-
LC 280HE	CR 2025	RC 8-9	75981-291.66	CR 2025
LC 285HE	CR 2025	RC 8-8	75981-284.10	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	75981-273.01	2 x Mignon
LC 345E	CR 2025	RC 8-4	75981-273.01	2 x Mignon
LC 355SC	CR 2032	-	-	-
LC 360SC	Lithium Battery *	-	-	-
LC 375HE	CR 2025	RC 8-7	75981-282.15	2 x Mignon
LC 380HE	CR 2025	RC 8-9	75981-291.66	CR 2025

* Soldered into the camcorder (part no. 75981-286.62)

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	75981-328.05	2 x Mignon
LC 450SC	Lithium Battery *	-	-	-
LC 460SC	Lithium Battery *	-	-	-
LC 475HE	CR 2025	RC 8-11	75981-328.05	2 x Mignon
LC 485HE	CR 2025	RC 8-10	75981-322.07	2 x Mignon
LC 500C	Lithium Battery *	-	-	-
LC 535E	CR 2025	RC 8-11	75981-328.05	2 x Mignon
LC 550SC	VL 2020 *	RC 500	75981-342.38	CR 2025
LC 560SC	VL 2330 *	RC 500	75981-342.38	CR 2025
LC 575E	CR 2025	RC 8-11	75981-328.05	2 x Mignon
LC 600C	VL 2330/1HF *	-	-	-
LC 610C	VL 2020/1HF *	RC 500	75981-342.38	CR 2025
LC 635E	CR 2025	-	-	-
LC 645E	CR 2025	RC 6E	75981-346.04	2 x Mignon
LC 650SC	VL 2330/1HF *	RC 500	75981-342.38	CR 2025
LC 675HE	CR 2025	-	-	-
LC 685HE	CR 2025	RC 6HE	75981-351.05	2 x Mignon
LC 695SN	VL 2020 *	-	-	-
LC 700C	VL 2330/1HF *	-	-	-
LC 735E	CR 2025	RC 6E	75981-346.04	2 x Mignon
LC 750SC	**	RC 500	75981-342.38	CR 2025
LC 760SC	**	RC 500	75981-342.38	CR 2025
LC 775HE	CR 2025	RC 8-11	75981-328.05	2 x Mignon
LC 785HE	CR 2025	RC 6HE	75981-351.05	2 x Mignon
LC-D 80E	CR 2025	RC 8-11	75981-328.05	2 x Mignon
LC-D 100E	CR 2025	RC 8-11	75981-328.05	2 x Mignon
DLC 1	**	**	**	**

* Soldered into the camcorder

** Data not yet available on editorial close

Sockets and Filter Threads of Camcorders (Part 1)

Camcorder	Socket	Signal	Filter Thread
	Hosiden	S-Video	
	BNC	Video	
	1 x Cinch	Video	
	8-pin Movie	Video	
	8-pin Movie	Audio (Mono)	
	8-pin Movie	Audio (Stereo)	
	1 x Cinch	Audio (Mono)	
	2 x Cinch	Audio (Stereo)	
	2.5mm Jack	RC (REC)	
	2.5mm Jack	RC (REC/PB)	
	5-pin. Edit	Edit-Bus	
	11-pin New-Edit	New-Edit-Bus	
	2.5mm Jack	Control-L-Bus	
	3.5mm Jack	Microphone (Mono)	
	3.5mm Jack	Microphone (Stereo)	
	3.5mm Jack	Earphones	
	10-pin Socket	VITC	
	10-pin Socket	CHG	
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	-	●	37/46 mm
VS 8500	●	●	52 mm
VS 8800	●	●	46 mm
LC 125C	-	●	37 mm
LC 145E	●	●	37 mm
LC 175HE	●	●	46 mm
LC 180HE	●	●	37 mm
LC 210C	-	●	49 mm
LC 215C	-	●	49 mm
LC 225C	-	●	37 mm
LC 230E	-	●	46 mm
LC 232E	-	●	37 mm
LC 235E	-	●	37 mm
LC 240E	-	●	37 mm
LC 255SC	●	●	37 mm
LC 280HE	●	●	37 mm
LC 285HE	●	●	52 mm
LC 290N	-	●	49 mm
LC 295SN	●	●	49 mm
LC 310C	-	●	49 mm
LC 320C	-	●	37 mm
LC 330E	-	●	37 mm
LC 335E	-	●	-
LC 345E	-	●	37 mm
LC 355SC	●	●	37 mm
LC 360SC	●	●	43 mm
LC 375HE	●	●	37 mm
LC 380HE	●	●	37 mm

1) Integrated loudspeaker

2) Integrated VITC Generator

Sockets and Filter Threads of Camcorders (Part 2)

Camcorder	Socket	Signal	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	Filter Thread
LC 400C		Digital Video				●										●								37 mm
LC 410C		S-Video				●										●								37 mm
LC 435E		Video				●										●								37 mm
LC 445E		Video				●										●								37 mm
LC 450SC		Video		●		●										●								37 mm
LC 460SC		Video		●		●										●								37 mm
LC 475HE		Video		●		●										●								37 mm
LC 485HE		Video		●		●										●								37 mm
LC 500C		Audio (Mono)				●										●								37 mm
LC 535E		Audio (Stereo)				●										●								37 mm
LC 550SC		Audio (Stereo)		●		●										●								43 mm
LC 560SC		Audio (Stereo)		●		●										●								43 mm
LC 575E		Audio (Mono)		●		●										●								37 mm
LC 600C		Audio (Stereo)				●										●								43 mm
LC 610C		RC (REC)				●										●								43 mm
LC 635E		RC (REC/PB)				●										●								37 mm
LC 645E		Edit Bus				●										●								37 mm
LC 650SC		New Edit Bus		●		●										●								43 mm
LC 675HE		Control-L Bus		●		●										●								37 mm
LC 685HE		Microphone (Mono)		●		●										●								52 mm
LC 695SN		Mikrofon (Stereo)		●		●										●						1)	2)	49 mm
LC 700C		Earphone				●										●								43 mm
LC 735E		VITC				●										●								37 mm
LC 750SC		CHG		●		●										●								43 mm
LC 760SC				●		●										●							2)	43 mm
LC 775HE				●		●										●								37 mm
LC 785HE				●		●										●								52 mm
LC-D 80E				●		●										●								52 mm
LC-D 100E				●		●										●								37 mm
DLC 1			●	●		*	*									*	*							30.5 mm

1) Built-in loudspeaker

2) Built-in VITC Generator

* Data not yet available on editorial close

Cam-corder

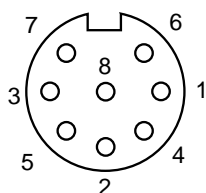
Contents: Video Editing Systems

Socket Contact Configuration of the VS 10 and VS 20 5.2

Socket Contact Configuration of the Editing Systems VS 10 and VS 20.

1. Sockets "REC. IN", "REC OUT", "PLAYER" and "MONITOR":

8-contact acc.
to DIN 45326

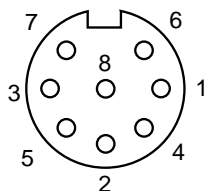


Contact

- 1 C-signal
- 2 Ground
- 3 Ground
- 4 Video
- 5 Audio left
- 6 Y-signal
- 7 Audio right
- 8 not used

2. "MONITOR" socket on RGB mode (only VS 20):

8-contact acc.
to DIN 45326

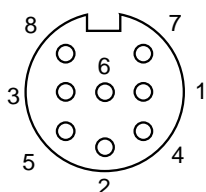


Contact

- 1 Blue signal
- 2 Ground
- 3 RGB switching voltage
- 4 Green signal
- 5 Audio left
- 6 Red signal
- 7 Audio right
- 8 Video

3. REMOTE socket "PL./REC.":

8-contact acc.
to DIN 41524

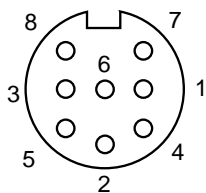


Contact

- 1 Data Recorder
- 2 Ground
- 3 Data Player
- 4 not used
- 5 not used
- 6 Clock Recorder
- 7 Clock Player
- 8 not used

4. REMOTE socket "AUX"(keyboard):

8-contact acc.
to DIN 41524



Contact

- 1 PC Clock
- 2 PC Data
- 3 Reset (1 TXD)
- 4 Ground
- 5 VCC (+5 V)
- 6 1 RXD
- 7 SCL
- 8 SDA

Keyboard Pinning

- 1 Clock
- 2 Data
- 3 Reset
- 4 Ground
- 5 VCC (+5 V)

Advice:

The keyboard (PC/XT-compatible) uses only contacts 1 to 5 of the "Remote-AUX" socket. Consequently the keyboard plug is only 5-pin. The contact pins to contacts 6, 7 and 8 of the "Remote-AUX" socket are missing in the keyboard plug. AT-keyboards are not suitable for VS 10 and VS 20.

Contents: Satellite Reception

Module Chart of Satellite Receivers	6.2
Retro-fitting Options for Grundig SAT Receivers	6.3
Cassettes for Extension of the STC 8xx Head Station	6.3
Tele-Pilot® Remote Control Handsets / Survey of Types	6.5
Special Functions of Satellite Receivers (Options)	6.6
Service Manuals from 1992 on	2.63

SAT

GRUNDIG Satellite Receivers

Designation	Part No.	STR 100	STR 100 DX	STR 110	STR 501	STR 502	STR 511	STR 512	STR 631	STR 632	STR 400 AP	STC 1600	STC 1650	HRM 800	HRM 801	HRM 802	HRM 805	HRM 810	HRM 811	HRM 820	HRM 851	HRM 852	HRM 858 (a)	HRM 854	HRM 861	HRM 864	HRM 883	HCM 814	HCM 893
		Tuner (Terr.)	29504-101.23																										
Tuner	29504-101.62													•	•	•	•												
Tuner	29504-101.63																				•								
Tuner	29504-201.24																												2)
Tuner	29504-201.61																					•	•	•	•	•	•		
Tuner	29504-201.62										•																		
Tuner	29504-201.73						•					•	•																
Tuner	29504-201.74							•																					
Tuner	29504-201.77	•																											2)
Tuner	29504-201.81				•																								
Tuner	29504-201.87		•	•																									
Tuner	75990-400.16					•																							
Tuner	75990-900.30								•																				
Tuner	75990-900.42									•																			
Modulator	29502-017.03													•															
Modulator	29502-017.04														•														
Modulator	29502-017.05															•													
Modulator	29502-017.06																•					•							
Modulator	29502-017.08																	•											
Modulator	29502-017.12																												
Modulator	29502-017.13																												
Modulator	29502-017.51																												
Modulator	29502-017.52																												
Modulator	29502-017.53																												
Modulator	29502-017.55																												
Modulator	29502-017.58																												
Modulator	29502-017.60																												
Modulator	29502-017.62																												
Modulator	29502-017.65																												
Modulator	29502-017.65																												
Modulator	75990-100.27				•	•																							
Modulator	75990-900.31																												
Modulator	75990-900.43																												
PLL-Modulator	29502-025.31						•	•																					
PLL-Modulator UHF	29502-025.33																												
PLL-Modulator VHF	29502-025.34																												
PLL-Modulator UHF	29502-025.36																												
PLL-Modulator VHF	29502-025.37																												
DSR Mixer	29502-017.07																												

1) HRM 858 -017.51, HRM 858a -017.52

2) 2 for each cassette

3) VHF or UHF dependent on the type of modulator fitted

Retro-fitting Options for Grundig SAT Receivers

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

Order no.: GAY 4300 (adapter cable is included)

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 (input range 950-1750 MHz)

HRM 800 output: Band III (C5...C12) and (S8*...S20) Mono

Order no.: GAV 70

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

HRM 801 output: Band I (C2, 3, 4) Mono

Order no.: GAV 9200

HRM 802 output: UHF (C21 - C40) Mono

Order no.: GAV 9300

HRM 805 output: VHF- OIRT (R6 - R12) Mono

Order no.: GAV 9800

SAT - TV Cassettes (input range 910-2050 MHz)

HRM 851 output: Band I (C2, 3, 4) Mono

Order no.: GAX 9600

HRM 852 output: UHF (C21 - C40) Mono

Order no.: GAX 9700

HRM 858 output: Band III (C5 - C12) and (S8*...S20) Stereo

Order no.: GAX 7300

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

HRM 858a output: Band III (C5 - C12) und (S4 - S20) Stereo

Order no.: GAY 4200(replaces cassette HRM 858)

HRM 854 output: Hyperband (S21 - S41) Stereo

Order no.: GAY 4100

HRM 861 output: Band I (C2, 3, 4) Stereo

Order no.: GAZ 2300

HRM 864 output: Band IV (C21- C40) Stereo

Order no.: GAZ 2200

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

(input range 950-2150 MHz)

HRM 883 output: Band III (C5 - C12) and (S3 - S30) Stereo

Order no.: GAY 8000

HRM 883-2 Order no: Band III (C5-C12) and (S3-S30) Stereo

Order no.: GAC 3000 (with the possibility of connecting 2 descramblers)

Terrestrial TV Cassettes

HRM 810 input: C2...C4/C5...C12/C21...C69
output: Band III (C5...C12) and (S8*...S20)

Order no.: GAV 9500

HRM 811 input: C2...C4/C5...C12/C21...C69
output: Band I (C2, 3, 4)

Order no.: GAW 1700

HRM 815 input: R1...R12/R21...R69
output: R6...R12/S8...S20

Order no.: GAX 1800

HCM 814 input: C2...C4/C5...C12/C21...C69
output: Band IV (C21...C40)

Order no.: GAC 1200

Terrestrial Twin Cassettes

HCM 893 input: C2...C4/C5...C12/C21...C69
output: Band III (C5...C12) and (S3...S30)

Order no.: GAD 0800

UKW Cassette

HRM 825FM input: 87...108 MHz
output: 87...108 MHz

Order no.: GAW 8800

Accessories for the STC 1600 Head Station

HM 1600 VHF output: C5 - C12 and S5 - S20

Order no.: GAY 4500 (2 pieces in each package)

HM 1602 UHF output: C21 - C69

Order no.: GAY 4600 (2 pieces in each package)

HR 1600 Pivoted extension unit for additional 8 channel lines

Bestellnr.: GAY 4700

HR 1600 MD Pivoted extension unit for additional 8 channel lines with decoder connection

Order no.: GAZ 2800

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 Handsets / Overview

Satellite Product Range

rc sat



29622-046.17

TP 720 SAT



29642-059.18

TP 820 SAT



29642-061.03



TP 805 SAT



75990-900.06

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 μ P: 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.

SAT

Contents Audio

Tape Run, Tape Speed and Torque Test and Adjustment Cassettes	7.2
Tele-Pilot® Remote Control Handsets / Survey of Types	7.5
Service Manuals from 1992 on:	
Audio/HiFi	7.10
Car Audio	7.14
Anti-theft Systems for Car Radios	7.16
Anti-theft Coding of Car Radios	7.17

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. 35079-015.00)

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

Tape Run Cassette 459, without guide lug (part no. 35079-008.00).

For checking and adjusting the tape run of cassette recorders.

Tape Run Cassette 3 / MC-112C, with mirror, without guide lug (part no. 72008-247.00)

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

Torque Test Cassette 456, (part no. 35079-014.00).

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. 35079-016.00)

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. 35079-019.00)

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	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"

Direction of tape run, $V= 4.76$ cm/s

Cr - Test Tape Cassette 448 A, (part no. 35079-023.00) 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 μ s and 70 μ s.

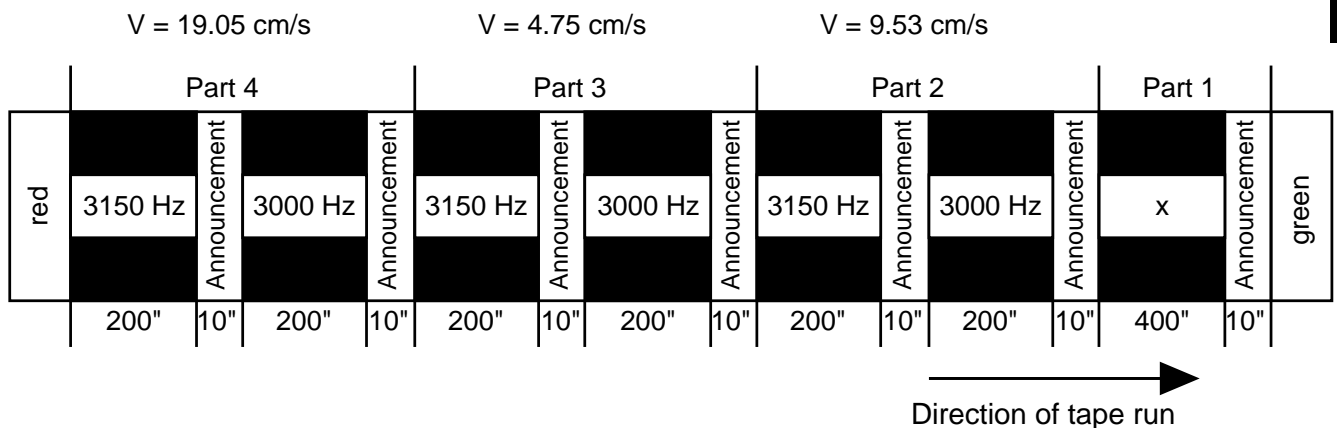
Test Tape Cassette 448 A

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	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"

Direction of tape run, $V= 4.76$ cm/s

GRUNDIG - Tape Speed Adjustment Cassette 467, (part-no. 05679-045.00)

For adjusting all tape speeds of tape recorders.



Audio

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. 34000-034.00)

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. 34074-180.00)

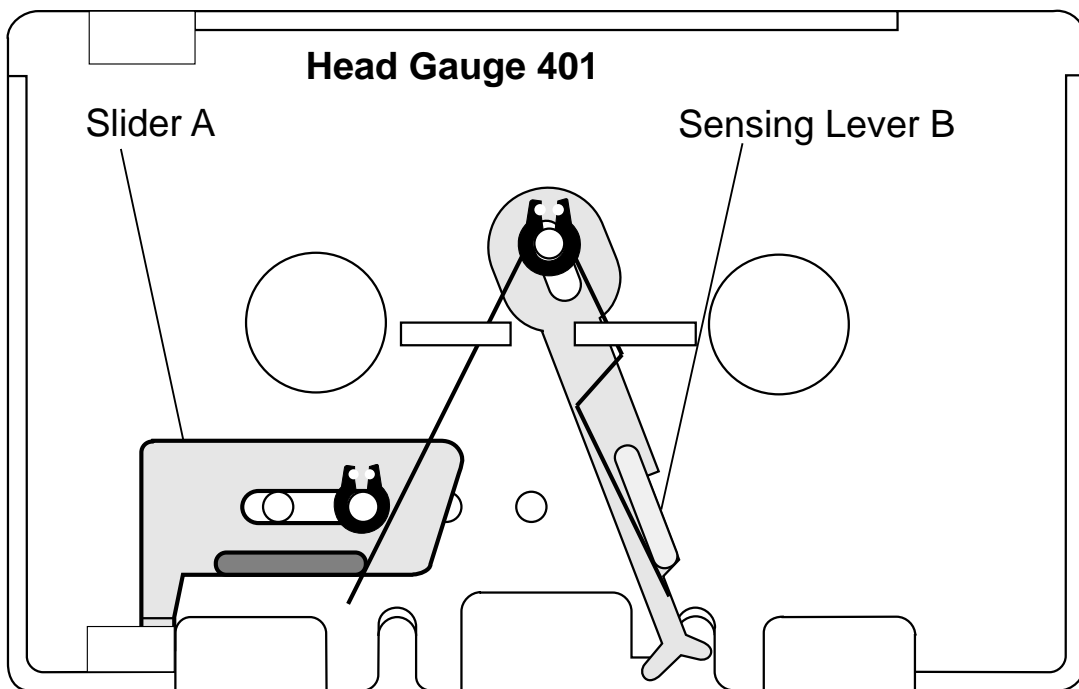
For setting the height and insertion depth of the AW-head of the HiFi models CF 5500/5500-2, MCF 500 and MCF 600.

Head Gauge 220, (part no. 34065-220.00)

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. 72008-401.00)

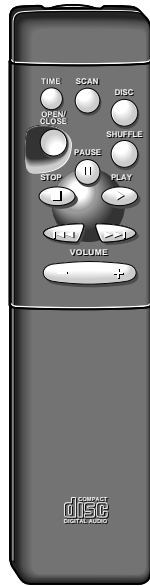
For setting and checking the height and insertion depth of the AW or AW-L head (rotating head), the dummy head and the external tape guides of HiFi recorders.



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



M30/M40-RC
59802-613.01



CDC 477 RC
75954-027.17



M2/M6 RC
75954-028.68



RC M5
75952-022.10



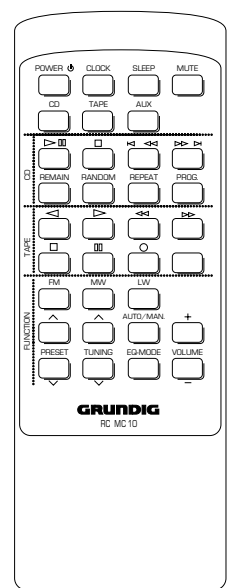
RC CDM 700
75954-062.93



RC 10
75950-504.87



RC 20
75951-045.77



RC MC 10
75952-049.30

Audio



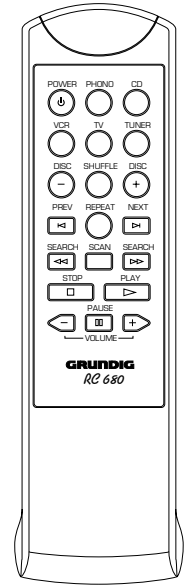
RCM-System
75954-003.10



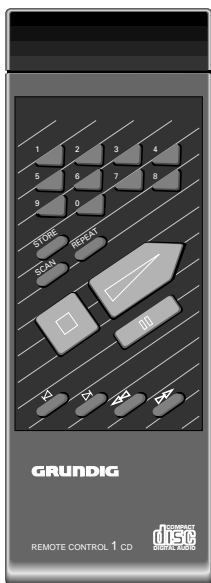
CDM 3000/5000 RC
75954-029.95



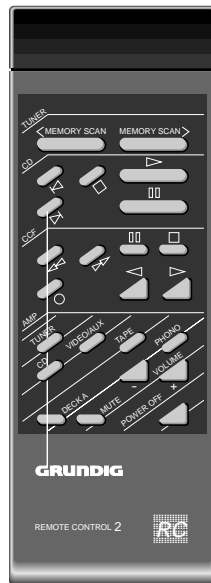
RC 670
75951-030.50



RC 680
75953-800.15



RC 1 CD
59800-749.01



RC 2
59800-767.00



RC 3
75987-588.15



R 220 RC
75954-010.50

Audio



RC M 7/17/27 C
RC M18/28/38 C
RH 8809/00
75954-049.36



RC M 37 DC
RC M48 DC
RC 8623
75954-050.41



UMS1/2
75954-029.64



UMS11/12
75954-505.01



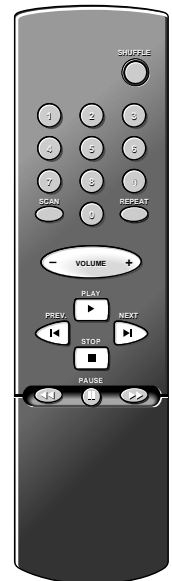
RC KM 11
75954-042.80



RC KM12/13
75954-062.57



RC CD22
75954-069.11



RC CD 23
75954-069.18

Audio



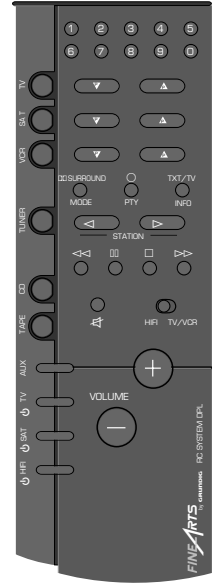
Fine Arts System
59802-602.01



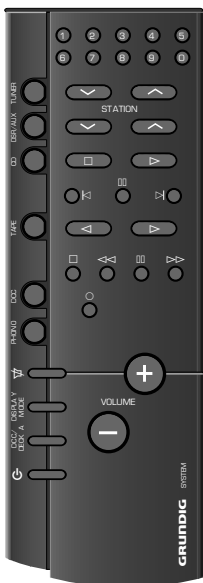
Fine Arts Tuner
59802-601.01



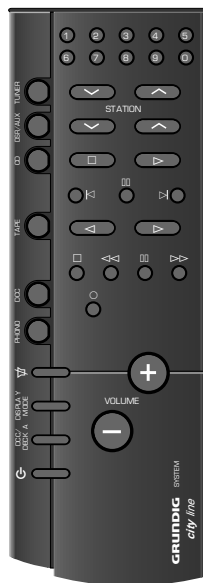
Fine Arts CD-Player
59802-603.00



Fine Arts System DPL
59802-616.01



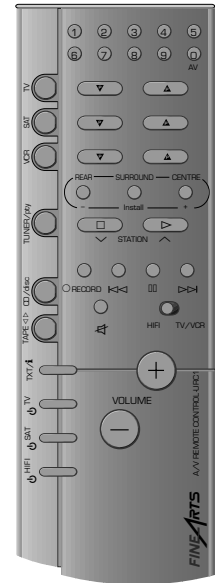
Grundig System
59802-608.01



City Line System
59802-607.01



URC 20
75954-068.56



M 100
59802-624.01

Audio



PA 1
75954-034.87



RC PA2/3
59802-619.01



K-RC D 500
75954-036.11



RC 400
75954-032.17



RR 750 CD
75954-047.28



RR 3500 CD
RR 650 CD
75954-046.34



RC 437
75954-015.61

Audio

Service Manuals from 1992 on: Audio/HiFi

Set	Service Manual
AS - IR	72010-741.15
CCD 670	72010-735.05
CCD 680	72010-739.65
CCF 2	72010-735.10
CCF 3	72010-734.00
CCF 21 CITY LINE	72010-737.10
CCF 23	72010-755.65
CCF 101 A	72010-733.10
CCF 101 A NEW ORLEANS	72010-733.10
CCF 101 NEW ORLEANS CASS.	72010-730.05
CCF 102	72010-741.80
CCF 120	72010-741.40
CCF 210	72010-737.10
CCF 310	72010-737.50
CD 1	72010-736.00 72010-736.01
CD 2	72010-737.35 72010-737.36
CD 3	72010-737.35 72010-737.36
CD 11	72010-745.35
CD 12	72010-745.50
CD 21 CITY LINE SAN REMO	72010-738.05
CD 21	72010-755.55
CD 22	72010-755.55
CD 23	72010-756.35
CD 102	72010-741.80
CD 120	72010-741.40
CD 210	72010-738.05
CD 360	72010-733.00
CD 435	72010-733.00
CD 436	72010-745.75
CD 437	72010-745.75
CD 904	72010-732.20
CD - IR	72010-741.15
CD 1000	72010-745.70
CDC 14	72010-745.40
CDC 477	72010-745.90
CDM 700	72010-755.70
CDM 3000	72010-747.15
CDM 5000	72010-747.15
CDP 70	72010-737.30
CDP 75	72010-745.15
CDP 76	72010-755.10
CDP 80	72010-737.30
CDP 100	72010-738.45
CDP 110	72010-745.15
CDP 200	72010-743.85
CDP 210	72010-755.15
CDP-S 150	72010-752.70
CDP-S 250	72010-757.10

Audio

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Service Manual
CF 1	72010-733.55
CF 1 MK II	72010-740.05
CF 4	72010-736.35
CF 11	72010-744.70
CF 21	72010-755.60
CL-CCF 6 CITY LINE	72010-735.10
CL-CD 6 CITY LINE	72010-737.35 72010-737.36
CL-V 6 CITY LINE	72010-735.90 72010-735.91
DCC 305	72010-735.60
DSR 200	72010-012.20
EQT 210	72010-737.15
HEINZELMANN	72010-745.10
K- RCD 100	72010-743.95
K-CDP 65	72010-743.90 72010-743.91
K-CDP 66	72010-755.05 72010-755.06
K-RCD 110	72010-749.90
K-RCD 120	72010-756.50
K-RCD 500	72010-748.45
KM 11	72010-750.05
KM 12	72010-754.30
KM 13	72010-757.15
M 1	72010-738.60
M 2	72010-746.05
M 5	72010-738.65
M 6	72010-746.05
M 7-C	72010-752.25
M 10	72010-733.30
M 15	72010-740.60
M 16	72010-745.20 72010-740.60
M 17-C	72010-752.25
M 18-C	72010-755.85
M 20	72010-735.70 72010-735.71
M 25 D/GB	72010-741.35
M 26	72010-745.25 72010-741.35
M 27-C	72010-752.25
M 28-C	72010-755.85
M 30 CCF	72010-740.75
M 30 CD	72010-740.75
M 30-A	72010-740.75
M 30-R	72010-740.75
M 30-T	72010-740.75
M 37-DC	72010-753.25
M 38-C	72010-755.85
M 40-CDC	72010-744.65
M 48-DC	72010-755.85
M 100 A	72010-749.15

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Service Manual
M 100 ADPL	72010-750.65
M 100 CD	72010-749.80
M 100-CD MKII	72010-754.35
M 100 CDC	72010-750.70
M 100 CF	72010-749.85
M 100 R	72010-749.15
M 100 T	72010-750.60
MC 10	72010-738.00
MC 10 GB	72010-738.00
MINI 10	72010-733.30
MINI 10 ORLANDO	72010-733.30
PA 1	72010-748.40
PA 2	72010-746.55
PA 3	72010-746.55
PRISMA XI	72010-736.21
R 1	72010-733.50
R 2	72010-733.50
R 2 GB	72010-733.50
R 3 FINE ARTS	72010-735.80
R 6 CITY LINE	72010-735.80
R 11	72010-744.00
R 12	72010-744.00
R 14 DPL	72010-746.95
R 21	72010-755.90
R 22 DPL	72010-755.90
R 23 DPL	72010-757.20
R 102	72010-741.80
R 120	72010-741.40
R 210	72010-736.90
R 210 GB	72010-736.90
R 220	72010-741.40
R 303	72010-720.80
R 310	72010-740.65
R 1000 DPL	72010-745.65
RAVENNA D/GB	72010-733.30
RCD 400	72010-747.05
RCD 405	72010-752.30
RF 630	72010-739.35 72010-739.36
RR 420 CD	72010-752.40
RR 600 CD	72010-732.85
RR 610 CD	72010-738.20
RR 620 CD	72010-751.70
RR 650 CD	72010-751.70
RR 700 CD	72010-739.60
RR 710 CD	72010-751.75
RR 750 CD	72010-751.75
RR 1950 CD	72010-718.35 72010-718.36
RR 2000	72010-738.25
RR 3000 CD	72010-732.90

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Service Manual
RR 3100 CD	72010-738.30
RR 3200 CD	72010-751.80
RR 3500 CD	72010-751.80
RR 4000 CD	72010-739.40
SC 900	72010-754.45
SC 910	72010-754.40
ST 16 (ADR)	72010-752.10
ST 303	72010-732.15
T 1	72010-733.45
T 2	72010-733.45
T 4	72010-735.85
T 6	72010-514.65
T 12	72010-742.65
T 21 CITY LINE SAN REMO	72010-737.55
T 22	72010-755.40
T 210	72010-737.55
T 310	72010-737.55
T - IR	72010-741.15
T 1000	72010-745.55
TT 1	72010-740.70
UMS 1	72010-748.20
UMS 2	72010-748.20
UMS 11	72010-757.25
UMS 12	72010-757.25
UMS 12-S	72010-757.25
V 1	72010-733.15
V 2	72010-735.35
V 3	72010-735.90 72010-735.91
V 4	72010-740.40
V 11	72010-742.45
V 12	72010-742.45
V 14 DPL-RF	72010-752.15
RBX-1	72010-752.20
V 21	72010-755.45
V 23	72010-755.50
V 101 A	72010-732.95
V 101 A NEW ORLEANS AMP:	72010-732.95
V 210	72010-736.75
V 210 GB	72010-736.75
V 310	72010-736.75
V 310 GB	72010-736.75
V 1000 DPL	72010-745.65
YACHT BOY 360	72010-745.05
YACHT BOY 400	72010-739.25
YACHT BOY 500	72010-735.00
Yacht Boy-P2000	72010-757.00

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Service Manual from 1992 on: Car Audio

Set	Service Manual
BOOSTER PA 120	72010-731.95
BOOSTER PA 240	72010-732.00
EC 4000 RDS	72010-748.50
EC 4290 CD	72010-750.55 72010-748.50
EC 4600 RDS	72010-752.75
EC 7400 RDS	72010-739.50
EC 7500 RDS	72010-739.50
MCD 20	72010-733.60
MCD 30	72010-737.25 72010-737.26
MCD 36	72010-748.30
MCD 40	72010-748.30
SCD 1590 VD	72010-739.10
SCD 1910 RDS	72010-733.20
SCD 3590	72010-739.10
SCD 5260 RDS	72010-749.35
WKC 1100 VD	72010-739.70
WKC 1101 VD	72010-739.40
WKC 1102 VD	72010-741.95
WKC 1630	72010-744.95
WKC 1650 VD	72010-736.10
WKC 1670 VD	72010-738.70
WKC 1700 VD	72010-791.85
WKC 1701 VD	72010-791.85
WKC 1703 RDS	72010-738.15
WKC 1703 RDS / RS	72010-738.15
WKC 1704 RDS	72010-738.15
WKC 1704 RDS / RS	72010-738.15
WKC 1705 RDS	72010-740.35
WKC 1903 RDS	72010-731.05
WKC 1904 RDS	72010-736.05
WKC 3100	72010-739.40
WKC 3101	72010-739.70
WKC 3102	72010-741.95
WKC 3200	72010-752.45
WKC 3201	72010-752.45
WKC 3300	72010-752.45
WKC 3301	72010-752.45
WKC 3600	72010-749.15
WKC 3630	72010-744.95
WKC 3650	72010-736.10
WKC 3700	72010-730.60
WKC 3700 R	72010-730.60
WKC 3701	72010-740.20
WKC 3701 R	72010-730.65
WKC 3703 RDS RS	72010-738.15
WKC 3704 RDS RS	72010-738.15
WKC 3705 RDS RS	72010-740.35
WKC 3705 RDS RS	72010-740.35
WKC 3870 RDS	72010-720.50
WKC 3880 RDS	72010-730.55
WKC 3880 RDS (MCD-A1)	72010-730.55

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Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

Set	Service Manual
WKC 3904 RDS	72010-731.80
WKC 3905 RDS	72010-731.85
WKC 4871 RDS	72010-731.70 72010-720.00 72010-720.01
WKC 5100	72010-746.36
WKC 5101	72010-746.36
WKC 5200	72010-746.36
WKC 5201	72010-746.36
WKC 5300	72010-746.30
WKC 5600	72010-746.30
WKC 6400 RDS	72010-740.00
WKC 6500 RDS	72010-740.00

Observe also the instructions given in the Safety Service Manual Part No. 72010-800.00 (p.1.16pp)

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		●		●	4600 RDS		●	●	
1704 RDS/RS		●		●	3200 RDS		●	●	
1705 RDS		●			3201 RDS		●	●	
1903 RDS		●	●		3300 RDS		●	●	
1904 RDS		●	●		3301 RDS		●	●	
1905 RDS		●	●						
1910 RDS		●	●						
2632 VD				●					
2642 VD				●					
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

Audio





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 WKC/SCD/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 ___ 1 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 ___ 1 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	BAND 81 ___ BAND 7	U-M 81 ___ U-M 7	U-M 11 ___ U-M 2	FM 1 ___ FM 2	U 1 ___ 1 U≡ 2	U 1 ___ U 1	U 1 ___ U 2	FM _____ FM 1	

Audio

1) see chart opposite 2) Car radios with optional code number (anti-theft system1) 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.

<p>Anti-theft Coding of Car Radios</p> <p>The following is a description of the coding and decoding methods for the different types of car radios.</p>	<p>Type of Car Radio WKC/SCD/EC . .</p> <p>5100, 5101, 5200, 5201, 5290, 5300, 5390, 5600, 5690</p>	<p>The following is a description of the coding and decoding methods for the different types of car radios.</p>	<p>Type of Car Radio WKC/SCD/EC . .</p> <p>4000, 4290, 4600</p>
<p>Activating the Coding</p> <ol style="list-style-type: none"> Radio is playing Press button 1) for more than 1 second, select "CODE" on the display with the rotary knob Press button 1) shortly - the display shows 1) 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 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 	<p>EXPERT</p> <p>E - - - - -</p> <p>EXPERT</p> <p>EXPERT</p>	<p>Activating the Coding</p> <ol style="list-style-type: none"> Radio is playing Press button 1) for more than 1 second, select "CODE" on the display with the right rotary knob Press button 1) shortly - the display shows 1) Enter the code number by turning the right shaft encoder 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 	<p>⊕ (EXPERT)</p> <p>CH - - - - -</p> <p>Right shaft encoder</p> <p>⊕ (EXPERT)</p>
<p>Is the coding activated?</p> <ol style="list-style-type: none"> Radio is playing Press button 1) for more than 1 second <ol style="list-style-type: none"> The coding is activated if "SAFE" appears in the display The coding is not activated if "CODE" appears in the display To leave the Expert Mode: Press button 1) for more than 1 second 	<p>EXPERT</p> <p>EXPERT</p>	<p>Is the coding activated?</p> <ol style="list-style-type: none"> Radio is playing Press button 1) for more than 1 second <ol style="list-style-type: none"> The coding is activated if "SAFE" appears in the display The coding is not activated if "CODE" appears in the display To leave the Expert Mode: Press button 1) for more than 1 second 	<p>⊕ (EXPERT)</p> <p>⊕ (EXPERT)</p>
<p>Putting into operation again</p> <p>On disconnection of the supply voltage the radio is electronically locked.</p> <ol style="list-style-type: none"> Reconnect the radio correctly to the supply voltage. Switch the radio on "SAFE" appears in the display After approx. 3 seconds the display shows 1) Enter the code number Confirm the code number Press button 1) shortly "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 	<p>1- - - - -</p> <p>EXPERT</p> <p>2</p>	<p>Putting into operation again</p> <p>On disconnection of the supply voltage the radio is electronically locked.</p> <ol style="list-style-type: none"> Reconnect the radio correctly to the supply voltage. Switch the radio on "SAFE" appears in the display After approx. 1 second the display shows 1) Enter the code number with the shaft encoder Confirm the code number Press button 1) for approx. 1 second "SAFE" appears in the display After approx. 1 second - radio starts playing If the code number entered is not correct "SAFE" appears in the display After a waiting time the counter 4) indicates 	<p>1 - - - - -</p> <p>Right shaft encoder</p> <p>2</p>
<p>Deactivating the coding</p> <ol style="list-style-type: none"> Radio is playing Press button 1) for more than 1 second, select "SAFE" on the display with the rotary knob Press button 1) shortly The display shows 1) Enter the code number Confirm the code number Press button 1) shortly "CODE" appears in the display If the code number entered is not correct "SAFE" appears in the display After a waiting time the counter 4) indicates Press button 1) for more than 1 second 	<p>EXPERT</p> <p>EXPERT</p> <p>E 1- - - - -</p> <p>EXPERT</p> <p>2</p> <p>EXPERT</p>	<p>Deactivating the coding</p> <ol style="list-style-type: none"> Radio is playing Press button 1) for more than 1 second, select "SAFE" on the display with the rotary knob Press button 1) shortly The display shows 1) Enter the code number with the shaft encoder Confirm the code number Press button 1) shortly "CODE" appears in the display If the code number entered is not correct "SAFE" appears in the display After a waiting time the counter 4) indicates Press button 1) for more than 1 second 	<p>⊕ (EXPERT)</p> <p>Right shaft enc. CH 1- - - - -</p> <p>Right shaft enc.</p> <p>2</p> <p>⊕ (EXPERT)</p>

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.

<p>Anti-theft Coding of Car Radios The following is a description of the coding and decoding methods for the different types of car radios</p>	<p>Type of Car Radio WKG/SCD/EC . .</p> <p>3200, 3201, 3300 3301</p>
<p>Activating the coding</p> <ol style="list-style-type: none"> 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. 	<p>EXPERT</p> <p>  EXPERT -----</p> <p>EXPERT</p> <p>EXPERT</p>
<p>Is the coding activated?</p> <ol style="list-style-type: none"> 1. Radio is playing 2. Press button 1) for more than 1 second <ol style="list-style-type: none"> a. The coding is activated if "SAFE" appears in the display b. The coding is not activated if "CODE" appears in the display <p>To leave the Expert Mode: Press button 1) for more than 1 second</p>	<p>EXPERT</p> <p>EXPERT</p>
<p>Putting into operation again On disconnection from the supply voltage the radio is electronically locked.</p> <ol style="list-style-type: none"> 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 approx. 2 seconds - Radio starts playing <p>The code number entered is not correct "SAFE" appears in the display After a waiting period the counter 4) indicates</p>	<p>1-----</p> <p>EXPERT</p> <p>2</p>
<p>Deactivating the coding</p> <ol style="list-style-type: none"> 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) appears 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. 	<p>EXPERT</p> <p>  EXPERT 1-----</p> <p>EXPERT "CODE"</p> <p>EXPERT</p>

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.

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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.

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Men's Shaver

Model	Type	Order No.	Product Description
PRO avantgarde Colour: chrome, mat EAN No. 400367242127 8	8875	RPY 8875	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 12-24 Volt charging voltage for car and boat Mains operation (100-240 Volt) is possible 60-MIN. QUICK CHARGE Deluxe case with mirror incl. wall bracket
PRO Schumacher Coll. Colour: anthracite EAN No. 400367242129 2	8675 MS	RPY 8675 MS	Grundig Special Edition 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 and recharge request, LED Platinum-plated shaver blade 2-stage combi-cut trimmer 12-24 Volt charging voltage for car and boat Mains operation (100-240 Volt) is possible 60-MIN. QUICK CHARGE Deluxe case with mirror
PRO Colour: anthracite EAN No. 400367242131 5	8675	RPY 8675	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 and recharge request, LED Platinum-plated shaver blade 2-stage combi-cut trimmer 12-24 Volt charging voltage for car and boat Mains operation (100-240 Volt) is possible 60-MIN. QUICK CHARGE Deluxe case with mirror
PRO avantgarde Colour: chrome mat EAN No. 400367242133 9	8375	RPY 8375	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 (100-240 Volt) Deluxe case with mirror

Model	Type	Order No.	Product Description
roltronic PRO Colour: granite EAN No. 400367234912 1	7645	RPY 7645	Battery and mains operation Glass-fibre reinforced shaving head frame Two-way-cut system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle Charge indicator and recharge request LED Platinum-plated shaver blade Super-wide hair trimmer 12-24 Volt charging voltage for car and boat Mains operation (100-240 Volt) is possible 60-MIN. QUICK CHARGE Handy case with mirror for travels
roltronic PRO Colour: bornite EAN No. 400367234911 4	7345	RPY 7345	Mains operation Glass-fibre reinforced shaving head frame Two-way-cut system Rolling shutter, protection and on/off switch in one Cutter blade with optimum cutting angle Platinum-plated shaver blade Super-wide hair trimmer Automatic voltage adapter (100-240 Volt) Handy case with mirror for travels
double head plus Colour: black EAN No. 400367238242 5	6655	RPY 6655	Battery and mains operation Double head Glass-fibre reinforced shaving head frame Counter-directional cutter blocks "Green" power cell in line with the environment LED battery charge and full-charge indicator Visual and acoustic recharge request signal Platinum-plated shaving foil basket Far extending telescope long-hair trimmer 12-24 Volt charging voltage for car and boat Mains operation (100-240 Volt) is possible 60-MIN. QUICK CHARGE Elegant flat case with flap for cable
double head plus Colour: black EAN No. 400367238243 2	6355	RPY 6355	Mains operation Double head Glass-fibre reinforced shaving head frame Counter-directional cutter blocks Platinum-plated shaving foil basket Far extending telescope long-hair trimmer Automatic voltage adapter 100-240 Volt Elegant flat case with flap for cable

Model	Type	Order No.	Product Description
sportsline 6563 Colour: blue EAN No. 400367240850 7	6563	RPY 6563	Battery and mains operation Double head Glass-fibre reinforced shaving head frame Shaving foil basket Charge indicator (LED) Battery full-charge indicator (on completion of the charging process the signal lamp flashes) 60 min. battery quick charge Mains operation (100 – 240 Volt) is possible Far extending long-hair trimmer Elegant flat case with flap for cable
sportsline 6363 Colour: blue EAN No. 400367240849 5	6363	RPY 6363	Mains operation Double head Glass-fibre reinforced shaving head frame Shaving foil basket Switchable from 110/120 to 220/240 Volt Far extending long-hair trimmer Elegant flat case with flap for cable
roltronic journey EAN 400367238248 7 EAN 400367238247 0 EAN 400367242076 9	6155 6154 6163	RPY 6155 RPY 6154 RPY 6163	Colour: bordeaux, bicolour design Colour: petrol, bicolour design Colour: black Battery operation Rolling shutter, protection and on/off switch in one Shaving foil basket Bicolour design Superflat shape Battery operation with 2 mignon cells or 2 NiCd cells (not included in the delivery) Integrated small cleaning brush
single head Colour: green EAN No. 400367240848 4	5563	RPY 5563	Battery and mains operation Glass-fibre reinforced shaving head frame Shaving foil basket Charge indicator (LED) Battery full-charge indicator (on completion of the charging process the charge signal lamp flashes) 60 min. battery quick charge Mains operation (100 - 240Volt) 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	Mains operation Glass-fibre reinforced shaving head frame Shaving foil basket Switchable from 110/120 to 220/240 Volt Far extending long-hair trimmer Elegant flat case with flap for cable

Hair Trimmers

Model	Type	Order No.	Product Description
hairstyle Colour: black EAN No. 400367240846 0	4565	RPY 4565	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) 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
hairstyle Colour: black EAN No. 400367240845 3	4365	RPY 4365	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.	Product Description
thema universal Colour: black EAN No. 400367234914 5	4543	RPY 4543	Battery and mains operation "Green" power cell in line with the environment Detachables blade set Attachable long-hair trimmer Cutting length 2.5-15 mm Solid blade set Charge signal lamp Travelling case
thema battery Colour: black EAN No. 400367234915 2	4143	RPY 4143	Battery operation Attachable long-hair trimmer Cutting length 2.5-15 mm Solid blade set Battery operation with 3 mignon cells or 3 NiCd cells (not included in the delivery) Travelling case
Beard trimmer, mains Colour: black EAN No. 400367240369 4	4363	RPY 4363	Mains operation Solid and detachable blade set Detachables vario comb/5 settings from 3 to 15 mm Travelling case

Lady Shaver/Epilation

Model	Type	Order No.	Product Description
lady care wet & dry Colour: mint EAN No. 400367240626 8	2465	RPY 2465	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 – bikini line hairs Elegant soft pouch and small cleaning brush
lady care wet & dry Colour: turquoise EAN No. 400367240625 1	2165	RPY 2165	Battery operation For wet and dry shave Operation with 2 mignon cells or with two 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 epilation Colour: emerald-green EAN No. 400367242101 8	2275	RPY 2275	Mains operation Attractive elegant design Two speeds =I. fine hairs =II. coarser hairs Epilation method based on tweezers principle Transformer 220 Volt - to low-voltage safety operation Practical case

Special Offers lady care

Model	Type	Order No.	Product Description
lady care classic line EAN 400367231900 1 EAN 400367231800 4 EAN 400367232405 0	2632 2614 4270	RPY 1900 RPY 1800 RPY 4270	Battery and mains operation Switchable to 110V/220V mains supply Battery operation Cosmetic look Multi-functional shaving system for: - the armpit zone - short, fine hairs - the legs Small cleaning brush Type 2632 and 2614 with travelling case

Hair Dryers

Model	Type	Order No.	Product Description
hairdress pro professional 1500 hairdryer EAN No. 400367241581 9	3765	RPY 3765	1500 W longlife motor 230 V, 50-60 Hz Professional hairdressers results with profi features 3 heat settings (incl. real cold) 2 speed settings Extremely narrow concentrator nozzle Extra long cable (3 metres) Removable air filter Hanging loop
hairdress travel Colour: black EAN No. 400367235117 9	3345	RPY 3345	1000 W hand-held hair dryer with folding handle especially designed for travels Switchable to 110-120/230-240 V, 50-60 Hz 2 heat settings with indicator Air concentrator nozzle 2 adapters Bag/pouch Hanging loop
freestyle 6 in1 Colour: white/ calypso-red EAN No. 400367239410 7	3455	RPY 3455	Hair styling set for many applications Six different attachments for styling - zig-zags - curls - waves - spirals - straightening - crimps

Electrical Tooth Brush

Model	Type	Order No.	Product Description
vario clean EAN No. 400376241359 4	1365	RPY 1365	Toothbrush, battery operation Optimum plaque removal Works on oscillating round brush principle Vario clean: 2 settings; 70° Intensive (for healthy gums) 40° Gentle (for sensitive gums and for massaging the gums) 4 attachable toothbrushes Automatic voltage adjustment 100 - 240V 1 hour operating time when fully charged Metal-free anchored Multiluft brushes with optimum brush rounding
Replacement brushes	GS 13	RPZ 1300	Replacement brush for vario clean 1365 with extra brush head, exchangeable Doubled lifetime Available in 4 different colours: mint, blue, pink, lilac

Accessories Men's Shaver

Shaver blades	Type	Order No.	Product Description
EAN No. 400367232794 5	GS 80	RPS 8000	Shaving foil basket platinum-plated for roltronic PRO 8835, 8635, 8345, 8335, 7658, 7645, 7345 PRO avantgarde 8875, 8675, 8375
EAN No. 400367238601 0	GS 63	RPS 6300	Shaving foil basket platinum-plated for double head plus 6655, 6355, sportsline 6563, 6363
EAN No. 400367240734 0	GS 53	RPS 5300	Shaving foil basket for single head 5563, 5363
EAN No. 400367226732 6	GS 21	RPY 2400	Shaving foil basket platinum-plated for Alpha 3; Beta 3; roltronic, all G 8255; roltronic Universal G 8264 - C/D/E/EK/G; G 8265/8267 G 8242/G 8243 6335/6536 6154/6155
EAN No. 400367225263 6	GS 20	RPY 1700	Shaving foil basket 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	Shaver blade for Delta G 8262, G 8263
EAN No. 400367222929 4	GS 14	RPV 1200	Shaver blade for Gamma G 8240, G 8241
EAN No. 400367222928 7	GS 3	RPV 1100	Shaver blade for Alpha G 8225, G 8229 and Beta G 8234, G 8235

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

Other Accessories	Type	Order No.	Product Description
EAN No. 400367242135 3	GS 84	RPZ 8400	Wall bracket for PRO avantgarde Colour: black
EAN No. 400367234349 5	GS 61	RPZ 6100	Wall bracket for roltronic PRO Colour: black
EAN No. 400367239690 3	GS 67	RPZ 6700	Wall bracket for double head plus 6655, 6355 sportsline 6563, 6363 single head 5563, 5363
EAN No. 400367231330 6	GS 60	RPY 5800	Wall bracket for all types of roltronic Universal battery/mains Colour: black
EAN No. 400367224728 1	GS 58	RPX 1300	Wall bracket for all roltronic mains; mains de Luxe Colour: black
EAN No. 400367224727 4	GS 57	RPX 1200	Wall bracket for Alpha 2/3; Beta 2/3 Colour: grey
EAN No. 400367224726 7	GS 56	RPX 1100	Wall bracket for Alpha 1; Beta 1 Colour: black
EAN No. 400367222934 8	GS 17	RPV 1700	Car/boat battery connecting cable for 8835, 8635, 7645, 8264 E, 8264 E "K", 6536, 7658 6655, 6563, 5563
EAN No. 400367238521 1	GS 62	RPZ 6200	Pre-shave stick for a non-irritating close electric shave 50 g compact powder stick
EAN No. 400367238618 8	GS 65	RPZ 6500	Cleaning spray for cleaning and maintaining all shaving components 100 ml pump bottle biologically degradable
EAN No. 400367241120 0	GS 83	RPZ 8300	Leather etui for all roltronic PRO models

Accessories lady care

Other Accessories	Type	Order No.	Product Description
EAN No. 400367240844 6	GS 26	RPS 2600	Foil basket for lady care wet & dry 2465
EAN No. 400367240843 9	GS 27	RPS 2700	Foil basket for lady care wet & dry 2165
EAN No. 400367240842 2	GS 25	RPS 2500	Cutter block for lady care wet & dry 2465, 2165
EAN No. 400367226731 9	GS 40	RPY 2300	Shaving system for Lady Care G 2632, G 2614, G 4270
EAN No. 400367232112 7	GS 44	RPY 6400	2 rubber rings for long-hair cartridge Lady Care Battery Epilator G 8307
EAN No. 400367232111 0	GS 43	RPY 6300	Short-hair cartridge for Lady Care Battery Epilator G 8307
EAN No. 400367235300 5	GS 42	RPY 5300	Short-hair cartridge for Lady Care Electric Epilator G 8306
EAN No. 400367235400 2	GS 41	RPY 5400	4 rubber rings for long-hair cartridge Lady Care Electric Epilator G 8306

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	72081-019.20	72082-012.90	72081-019.20	72081-018.40	72081-018.90
Shaving head frame	72081-019.30	72082-013.00	72081-019.30	72081-018.50	72081-018.50
Motor	72086-007.80	72086-002.80	72086-008.80	72086-007.80	72086-008.20
Electronics	-	72086-003.10	72086-008.40	-	72086-008.40
Inside casing	72081-019.40	-	72081-019.90	72081-018.60	72081-019.70
Decorative parts	72081-019.50	-	72081-020.00	72081-018.70	72081-019.80
Motion transformer	-	72083-005.40	72083-009.90	-	72083-009.90
Long-hair trimmer	72087-001.00	72084-003.70	72087-001.00	72087-001.00	72087-001.00
Cutter block spring	72084-003.90	72083-005.10	72084-003.90	72084-003.90	72084-003.90
Sealing	72085-003.30	72082-005.40	72085-003.30	72085-003.30	72085-003.30
On - Off slide	72081-018.80	-	72081-018.80	72081-018.80	72081-018.80
NiCd accumulator	-	72086-001.10	72086-000.60	-	72086-000.60

Shaver type	8875	8675 MS	8675	8375	6563 MS
Spare part	Order No.	Order No.	Order No.	Order No.	Order No.
Shaving head frame	72082-014.00	72082-014.00	72082-014.00	72082-014.00	72081-020.10
Motor	72086-009.10	72086-009.10	72086-009.10	72086-009.10	72086-008.20
Electronics	72086-008.70	72086-008.80	72086-008.80	72086-009.00	72086-008.40
Inside casing	72081-020.40	72081-020.50	72081-020.50	72081-020.60	72081-019.70*
Rear part of the casing	72081-020.70	72081-020.80	72081-030.40	72081-020.90	72081-030.00
Decorative parts	72081-030.10	72081-030.20	72081-030.50	72081-030.30	72081-020.20
Motion transformer	72083-010.00	72083-010.00	72083-010.00	72083-010.00	72083-010.00
Long-hair trimmer	72084-004.00	72084-004.10	72084-004.40	72084-004.20	72084-004.30
Cutter block spring	-	-	-	-	72084-003.90
Sealing	72085-002.90	72085-002.90	72085-002.90	72085-002.90	72085-003.30
Accumulator cpl.	72086-012.80	72086-012.80	72086-012.80	-	72086-001.10**

*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	72081-010.10	72083-007.90	72083-009.80	72081-010.10	72083-007.90
Comb no.: 1	-	-	-	-	72086-007.20
Comb no.: 3	-	-	-	-	72083-007.80
Comb 6-9 mm	-	-	-	-	-
Comb 12-15 mm	-	-	-	-	-
Comb	-	72083-007.20	-	-	-
Blade set	72087-000.70	72087-000.60	72087-000.90	72087-000.50	-
Electronics	-	-	72086-007.50	72086-006.00	72086-006.40
Motor	72086-012.20	-	72086-007.40	72086-005.50	72086006.30
Oscillating armature	-	72086-005.80	-	-	-
Magnet coil	-	72086-005.60	-	-	-

Hair Trimmer Type	4365	4565
Spare Part	Order No.	Order No.
Body	72088-000.10	72088-000.20
Blade set	72087-001.10	72087-001.10
Charging station	-	72089-016.30

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	72082-005.60	72082-005.20	72082-012.90	72081-016.90	72081-016.90	-
Shaving head frame	72082-007.70	72082-005.30	72082-013.00	72082-012.60	72082-012.60	72082-011.70
Motor	72086-003.90	72086-003.90	72086-002.80	72086-006.90	72086-007.10	72086-004.40
Electronics	72086-005.10	72086-005.10	72086-003.10	72086-007.00	72086-007.20	72086-004.70
Front part of the casing	72081-013.30	72081-013.20	72081-017.50	72081-017.00*	72081-001.90*	72081-013.70
Rear part of the casing	72081-004.30	72081-007.70	72081-017.60	-	-	72081-014.10
Ejector spring	-	-	-	-	-	-
Rolling shutter	-	-	-	-	-	72082-012.00
Tubular holder	-	-	-	-	-	-
Cutter block spring	72083-005.10	72083-005.10	-	-	-	-
Motion transformer	72083-005.40	72083-005.40	72083-005.40	72082-012.70	72082-012.70	72083-014.60
Long-hair trimmer	72084-002.90	72084-001.90	72084-003.70	72084-003.60	72084-003.60	72084-003.10

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	72082-011.90	72082-011.20	72082-011.20	72082-011.20	72082-011.20	72083-014.50
Motor	72086-004.40	72086-004.40	72086-004.40	72086-004.40	72086-004.40	72086-004.40
Electronics	72086-004.80	72086-004.70	72086-004.70	72086-004.70	72086-004.80	72086-004.30
Front part of the casing	72081-013.90	72081-013.90	72081-012.10	72081-001.90	72081-012.20	72081-011.90
Rear part of the casing	72081-014.10	72081-014.10	72081-012.40	72081-012.40	72081-012.90	72081-011.20
Ejector spring	-	72083-014.80	72083-014.80	72083-014.80	72083-014.80	72083-014.80
Rolling shutter	72082-012.00	72082-012.00	72082-011.00	72082-011.00	72082-011.00	72082-010.90
Tubular holder	-	-	-	-	-	-
Cutter block spring	-	-	-	-	-	-
Motion transformer	72083-014.60	72083-014.60	72083-014.60	72083-014.60	72083-014.60	72083-014.60
Long-hair trimmer	72084-003.00	72084-003.00	72084-002.70	72084-002.70	72084-002.70	72084-002.60

* casing complete

Exchange products:

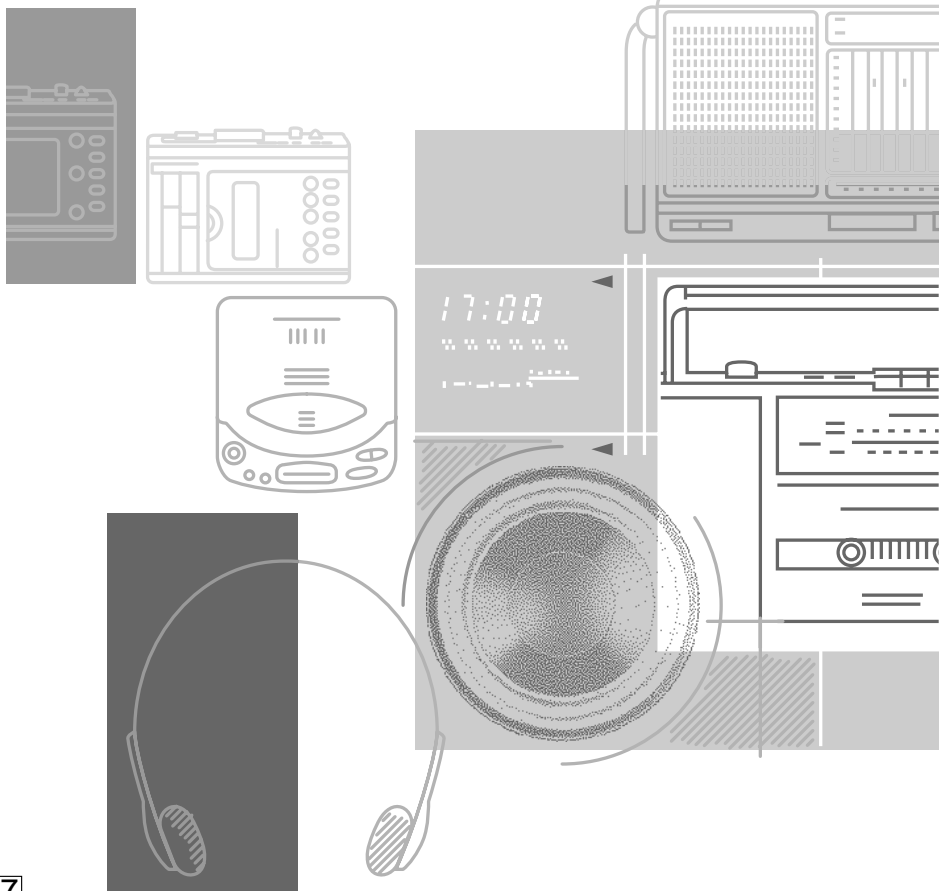
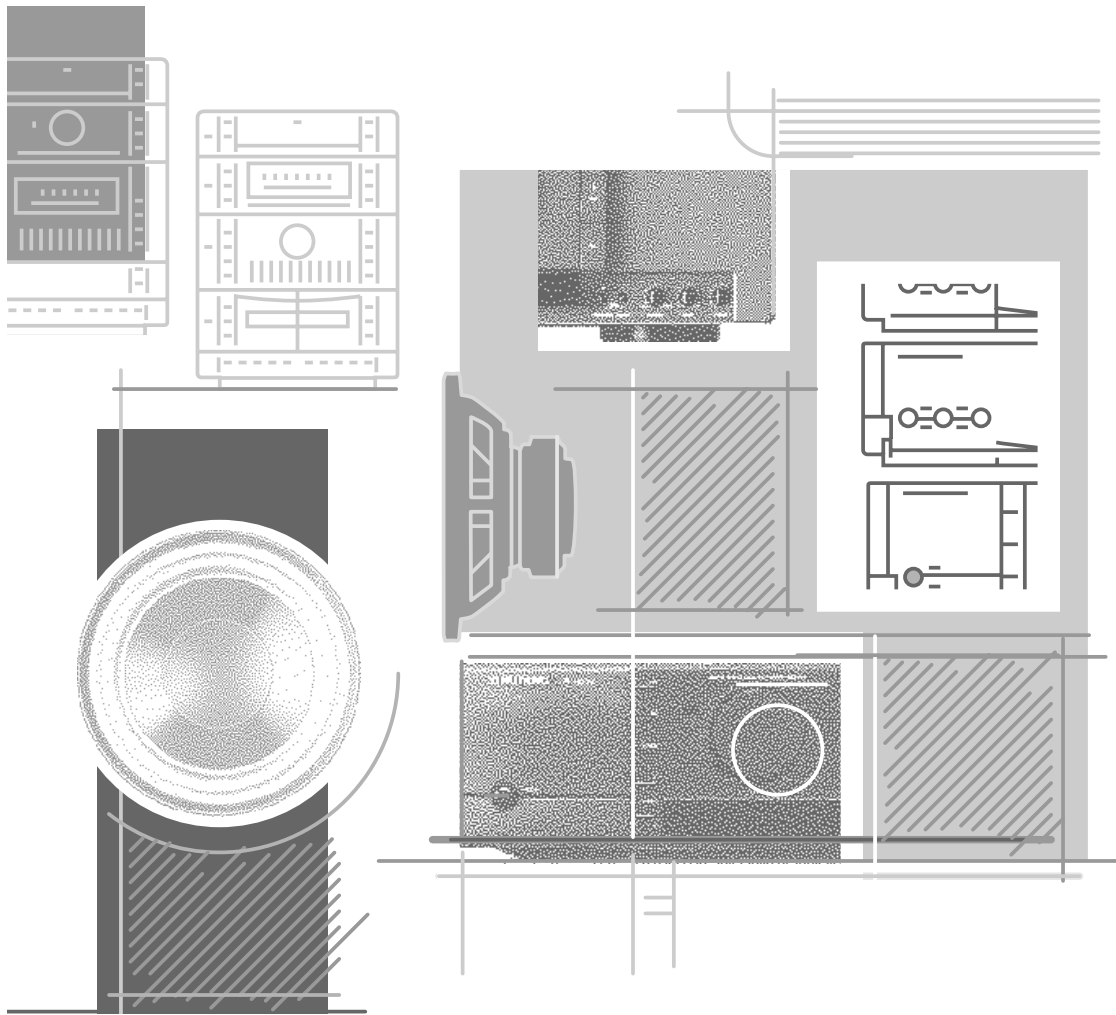
All hairdress products
 freestyle 6 in 1
 roltronic journey 6154/6155
 All lady care products

Exception: lady care 2632

Calendar 1998

January	February	March	April	May	June
1 Th New Year 1	1 So	1 So	1 We 14	1 Fr 1st May	1 Mo Whit Monday
2 Fr	2 Mo	2 Mo Expert	2 Th	2 Sa	2 Tu
3 Sa	3 Tu	3 Tu Expert	3 Fr Telering	3 So	3 We
4 So 6	4 We	4 We 10	4 Sa Telering	4 Mo	4 Th 23
5 Mo	5 Th	5 Th Ruefach	5 So Telering	5 Tu	5 Fr
6 Tu	6 Fr	6 Fr Ruefach	6 Mo	6 We	6 Sa
7 We 2	7 Sa	7 Sa Ruefach	7 Tu	7 Th 19	7 So
8 Th	8 So	8 So	8 We 15	8 Fr	8 Mo
9 Fr	9 Mo	9 Mo	9 Th	9 Sa	9 Tu
10 Sa	10 Tu	10 Tu	10 Fr Good Friday	10 So	10 We
11 So 7	11 We	11 We Int. Messe Kairo 11	11 Sa	11 Mo	11 Th
12 Mo	12 Th	12 Th Int. Messe Kairo	12 So Easter Sunday	12 Tu Interhospital	12 Fr
13 Tu	13 Fr	13 Fr Internorga/Int.Kairo	13 Mo Easter Monday	13 We Interhospital	13 Sa
14 We 3	14 Sa Intergastra	14 Sa Internorga/Int.Kairo	14 Tu	14 Th Interhospital 20	14 So
15 Th	15 So Intergastra	15 So Internorga/Int.Kairo	15 We 16	15 Fr Interhospital	15 Mo
16 Fr	16 Mo Intergastra	16 Mo Internorga/Int.Kairo	16 Th	16 Sa	16 Tu
17 Sa	17 Tu Intergastra	17 Tu Internorga/Int.Kairo	17 Fr	17 So	17 We
18 So	18 We Intergastra 8	18 We Internorga/Int.Kai 12	18 Sa AMI	18 Mo	18 Th 25
19 Mo	19 Th Intergastra	19 Th CeBIT/Int.Kairo	19 So AMI	19 Tu	19 Fr
20 Tu	20 Fr	20 Fr CeBIT/Int.Kairo	20 Mo AMI	20 We	20 Sa
21 We 4	21 Sa	21 Sa CeBIT	21 Tu AMI	21 Th 21	21 So
22 Th	22 So	22 So CeBIT	22 We AMI 17	22 Fr	22 Mo
23 Fr	23 Mo	23 Mo CeBIT	23 Th AMI	23 Sa	23 Tu
24 Sa	24 Tu	24 Tu CeBIT	24 Fr AMI/Der neue Planet	24 So	24 We ELTEC
25 So	25 We 9	25 We CeBIT 13	25 Sa AMI/Der neue Planet	25 Mo	25 Th ELTEC 26
26 Mo	26 Th	26 Th Interfunk	26 So AMI	26 Tu	26 Fr ELTEC
27 Tu	27 Fr	27 Fr Interfunk	27 Mo	27 We	27 Sa
28 We 5	28 Sa	28 Sa Interfunk	28 Tu	28 Th 22	28 So
29 Th		29 So Interfunk	29 We	29 Fr	29 Mo
30 Fr		30 Mo Interfunk	30 Th 18	30 Sa	30 Tu
31 Sa		31 Tu		31 So Whit Sunday	

July	August	September	October	November	December
1 We 27	1 Sa	1 Tu	1 Th efa	1 So Consumenta	1 Tu
2 Th	2 So	2 We Elektrotechnik 36	2 Fr efa	2 Mo	2 We 49
3 Fr	3 Mo	3 Th Elektrotechnik	3 Sa	3 Tu	3 Th
4 Sa	4 Tu	4 Fr Elektrotechnik	4 So	4 We 45	4 Fr
5 So	5 We 32	5 Sa Elektrotechnik/IAA N.	5 Mo	5 Th	5 Sa
6 Mo	6 Th	6 So IAA Nutzfahrzeuge	6 Tu	6 Fr	6 So
7 Tu	7 Fr	7 Mo IAA Nutzfahrzeuge	7 We 41	7 Sa	7 Mo
8 We 28	8 Sa	8 Tu IAA Nutzfahrzeuge	8 Th	8 So DIMA	8 Tu
9 Th	9 So	9 We IAA Nutzfahrzeug 37	9 Fr	9 Mo DIMA	9 We 50
10 Fr	10 Mo	10 Th IAA Nutzfahrzeuge	10 Sa	10 Tu DIMA/Electronica	10 Th
11 Sa	11 Tu	11 Fr IAA Nutzfahrzeuge	11 So	11 We Electronica 46	11 Fr
12 So	12 We 33	12 Sa IAA Nutzfahrzeuge	12 Mo	12 Th Electronica	12 Sa
13 Mo	13 Th	13 So IAA Nutzfahrzeuge	13 Tu	13 Fr Electronica	13 So
14 Tu	14 Fr	14 Mo	14 We 42	14 Sa	14 Mo
15 We 29	15 Sa	15 Tu Automechanika	15 Th	15 So	15 Tu
16 Th	16 So	16 We Autom./Photokini 38	16 Fr	16 Mo	16 We 51
17 Fr	17 Mo	17 Th Autom./Photokina	17 Sa	17 Tu	17 Th
18 Sa	18 Tu	18 Fr Autom./Photokina	18 So	18 We 47	18 Fr
19 So	19 We 34	19 Sa Autom./Photokina	19 Mo Systems	19 Th	19 Sa
20 Mo	20 Th	20 So Autom./Photokina	20 Tu Systems	20 Fr	20 So
21 Tu	21 Fr	21 Mo Photokina	21 We Systems 43	21 Sa	21 Mo
22 We 30	22 Sa	22 Tu	22 Th Orgatec/Systems	22 So	22 Tu
23 Th	23 So	23 We 39	23 Fr Orgatec/Systems	23 Mo	23 We 52
24 Fr	24 Mo	24 Th	24 Sa Orgatec/Consumenta	24 Tu	24 Th Christmas
25 Sa	25 Tu	25 Fr	25 So Orgatec/Consumenta	25 We 48	25 Fr Christmas
26 So	26 We CeBIT Home 35	26 Sa	26 Mo Orgatec/Consumenta	26 Th	26 Sa Christmas
27 Mo	27 Th CeBIT Home	27 So	27 Tu Orgatec/Consumenta	27 Fr	27 So
28 Tu	28 Fr CeBIT Home	28 Mo	28 We Consumenta 44	28 Sa	28 Mo
29 We	29 Sa CeBIT Home	29 Tu	29 Th Consumenta	29 So	29 Tu
30 Th	30 So CeBIT Home	30 We efa 40	30 Fr Consumenta	30 Mo	30 We 53
31 Fr	31 Mo		31 Sa Consumenta		31 Th New Year Eve



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