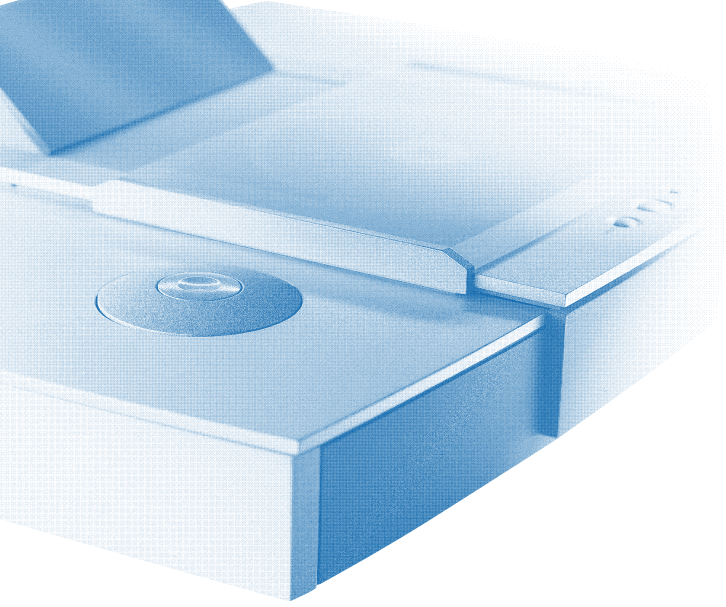
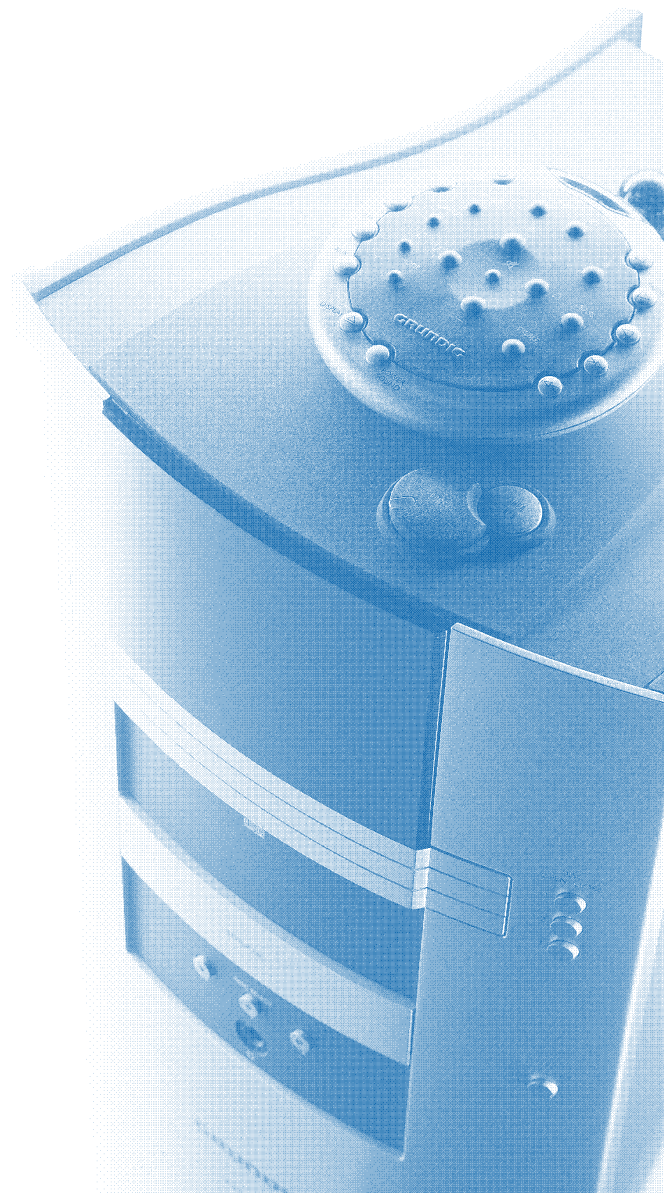
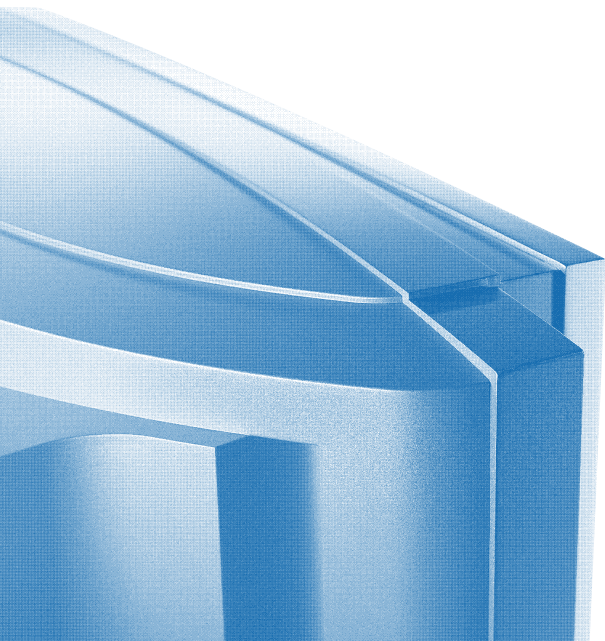


**GRUNDIG**



# **TECHNICAL ANNUAL 2001**



# Grundig Service

Hotline Germany...  
...Mo.-Fr. 8.00-18.00 hr

## Technical Support:

TV	0180/52318-41
TV	0180/52318-49
SAT	0180/52318-48
VCR/LiveCam	0180/52318-42
HiFi/Audio	0180/52318-43
Car Audio	0180/52318-44
Telecommunication	0180/52318-45
Fax:	0180/52318-51
Planatron (8.00-22.00 hr)	0180/52318-99

Spare Parts Order Desk: Mo.-Fr. 8.00-19.00 hr

Phone: 0180/52318-40  
Fax: 0180/52318-50

## Region Süd

Beuthener Str. 65  
90471 Nürnberg

## Region Süd-West

Dudenstr. 45-53  
68167 Mannheim

## Region West

Horbeller Str. 19  
50858 Köln

Phone

**0180 - 523 1852**

Fax

**0180 - 523 1846**

## Region Ost

Wittestr. 30e  
13509 Berlin

## Region Nord

Kolumbusstr. 14  
22113 Hamburg

---

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

Grundig AG, D-90329 Nürnberg

Printed in Germany • Copyright by Grundig

Technical data E. & O.E. • Alterations reserved

# Technical Annual 2001

Dear Readers,

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

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

## Contents:

General Part.....	1.1
TV Technology.....	2.1
Video Technology .....	3.1
Camcorder Technology .....	4.1
Satellite Reception .....	5.1
Audio Technology .....	6.1

Subject to alteration

# Partners help each other

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

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

<p><b>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</b></p>	<p><b>Fehleranhänger für Module / Label tag for modules Cartellino dei difetti per i moduli / Fiche suiveuse pour module Etiqueta de avería para módulos</b></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 aut Fault occurs after approx ..... minutes Il difetto compare dopo ca. .... minuti Le défaut apparaît 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><b>Bitte unterstützen Sie uns beim Auffinden versteckter Fehler: Versehen Sie alle Modul-Rückläufer mit vollständig ausgefüllten Fehleranhängern!</b></p> <p><b>Please help us to trace obscure faults: Ensure all modules are returned with label tag completed!</b></p> <p><b>Collaborate con noi nella ricerca deidifetti: corredate ogni modulo che rimandate indietro dei cartellino dei difetti compilato in tutti i suoi punti!</b></p> <p><b>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.</b></p> <p><b>Ayúdenos a encontrar las averías ocultas: procuren que cada módulo devuelto vaya con su etiqueta de avería para módulos debidamente relienda!</b></p>
----------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Contents: General Part**

Addresses:

Grundig AG .....	1.2
Return of Spare Parts, Exchange Parts, Exchange Products and Picture Tubes under Guarantee .....	1.2
Grundig Sales Companies (Europa).....	1.3
Grundig AG - Overseas Sales Division.....	1.5

GRUNDIG AG, Business Line Instruments - Test and Measuring Systems  
(Geschäftsbereich Instruments Test und Mess-Systeme)

Product Range and Customer Services, Automotive Test and Measuring Systems.....	1.11
Addresses.....	1.12

Service Training Courses for our Customers .....	1.16
--------------------------------------------------	------

Private Study with Service Training Manuals .....	1.17
---------------------------------------------------	------

ISDN-InfoTip®.....	1.18
--------------------	------

Grundig Universal Remote Controls.....	1.19
----------------------------------------	------

Pinning of Sockets and Plugs.....	1.25
-----------------------------------	------

**GRUNDIG AG****Head Office**

Beuthener Str. 41-43, 90471 Nürnberg  
 Tel.: (09 11) 7 03-0, Fax: (09 11) 703-74 44 e-mail: info@grundig.com  
 Internet: http://www.grundig.com

**Central Customer Service**, Beuthener Str. 55, 90471 Nürnberg

Tel.: (0911) 703-19 01 Fax: -19 03 e-mail: grundigzentralkundendienst@grundig.com

**Sales Department Germany**, Beuthener Str. 41, 90329 Nürnberg

Tel.: (0911) 703-0 Fax: -74 44 e-mail: info@grundig.com

**Central Warranty Remuneration**, Kolumbusstraße 14, 22113 Hamburg

Telefon (0180) 500 02 95 Fax (0180) 500 02 96

Tel.: (0911) 703-77 08 Fax: -86 26

**GRUNDIG Customer Service Centres / Workshops:**

... for the delivery of repair goods

**- Region Süd**

Beuthener Str. 65 Tel.: (0180) 523 18 52  
 90471 Nürnberg Fax: (0180) 523 18 46

**- Region Süd-West**

Dudenstr. 45-53 Tel.: (0180) 523 18 52  
 68167 Mannheim Fax: (0180) 523 18 46

**- Region West**

Horbeller Str. 19 Tel.: (0180) 523 18 52  
 50858 Köln Fax: (0180) 523 18 46

**- Region Ost**

Wittestr. 30e Tel.: (0180) 523 18 52  
 13509 Berlin Fax: (0180) 523 18 46

**- Region Nord**

Kolumbusstr. 14 Tel.: (0180) 523 18 52  
 22113 Hamburg Fax: (0180) 523 18 46

**GRUNDIG Spare Parts Service**

... for handling of exchange parts

Please send all components and products which are subject to exchange directly to the address below indicating your customer number.

GRUNDIG Zentralkundendienst

- Tor 7 / 8 -

Beuthener Straße 55

90471 Nürnberg

We ask you to send all picture tubes under guarantee with the exception of Philips tubes to above mentioned address. **Pass all warranty claims arising from Philips picture tubes directly on to Philips.** For advance replacement please call...

Tel.: (040) 28 52 22 01

Fax: (040) 28 52 22 03

## Grundig Sales Companies (Europe)

### S.A. Grundig Belux N. V.

Deltapark Unit 3, Weihoek 3 G, B-1930 Zaventem  
Tel.: (+32-2) 7 16 04 00, Fax: (+32-2) 7 16 03 82

### Grundig Danmark A/S

Lejrvej 19, DK-3500 Vaerloese  
Tel.: (+45) 44 48 68 22, Fax: (+45) 44 48 66 67  
e-mail: post@grundig.dk

### Grundig Oy

Luoteisrinne 5, FIN-02270 Espoo, Finland  
Tel.: (+358) 98 04 39 10, Fax: (+358) 98 04 39 01

### Grundig France S. A. S.

5, Boulevard Marcel Pourtout, F-92563 Rueil Malmaison Cedex  
Tel.: (+33-1) 41 39 26 26, Telex: 0 42-63 45 04, Fax: (+33-1) 47 08 69 48  
e-mail: christine.baraut@grundig.com

### Grundig UK Limited.

Elstree Business Centre, Elstree Way, Borehamwood, Hertfordshire, WD6 1RX, Großbritannien/Great Britain  
Tel.: (+44-20) 83 24 94 00, Fax: (+44-20) 83 24 94 01  
Internet: www.grundig.co.uk, e-mail: infouk@grundig.com

### Grundig Italiana S. P. A.

Via G. B. Trener 8, I-38100 Trento  
Tel.: (+39-04 61) 89 31 11, Fax: (+39-04 61) 89 32 07 / 89 34 08 (KD)  
e-mail: sasstec@grundig.it

### Grundig Nederland B. V.

Joan Muyskenweg 22, NL-1096 CJ Amsterdam  
Tel.: (+31-20) 5 68 15 68, Fax: (+31-20) 5 68 14 06

### Grundig Norge A/S

Glynitveien 25, Postboks 234, N-1402 Ski  
Tel.: (+47) 64 87 82 00, Fax: (+47) 64 87 66 10  
e-mail: grundig.norge@grundig.no

### Grundig Austria Ges. m. b. H.

Breitenfurter Str. 43-45, A-1121 Wien  
Tel.: (+43-1) 81 117-0, Fax: (+43-1) 81 11 73 40  
e-mail: kundendienst.vie@Grundig.com

### Grundig Portuguesa, Lda.

Rua Bento de Jesus Caraça, 17, P-1495-686 Cruz Quebrada  
Tel.: (+351-1) 4 15 67 00, Fax: (+351-1) 4 19 90 83, (+351-1) 4 15 67 70  
e-mail: gpl@mail.telepac.pt, informacoes@grundig.pt

### Grundig Svenska AB

Box 4050, Solna Strandväg 74, S-171 04 Solna  
Tel.: (+46-8) 6 29 85 30, Fax: (+46-8) 6 29 85 70, (+46-8) 6 29 85 71  
e-mail: info@grundig.se

**Grundig (Schweiz) AG**

Steinackerstr. 28, CH-8302 Kloten  
Tel.: (+41-1) 8 15 81 11, Fax: (+41-1) 8 13 52 31  
e-mail: kundendienst.ch@grundig.de

**Grundig España S. A.**

Solsonés, 2, Edif. Muntadas (Mas Blau I), E-08820 El Prat de Llobregat (Barcelona)  
Tel.: (+34-93) 4 79 92 00, Fax: (+34-93) 4 79 92 01, e-mail: info@grundig.es

**Grundig Ireland Ltd.**

Unit 1, Block 3, Waverley Office Park, Old Naas Road, Dublin 12/Eire  
Tel.: (+3 53-1) 4 50 97 17, Fax: (+3 53-1) 4 50 99 36  
Internet: www.grundig.co.uk, e-mail: infouk@grundig.com

**Grundig Polska SP. Z.O.O. (Serwis)**

Ul. Czéstochowska 140, PL - 62-800 Kalisz, Poland  
Tel.: (+48-62) 7 66 77 70, Fax: (+48-62) 7 66 77 72  
e-mail: grundig-serwis@ikp.atm.com.pl

**Grundig Polska SP. Z.O.O.**

Ul. Raclawicka 146, PL - 02-117 Warszawa, Poland  
Tel.: (+48-22) 6 68 62 66, Fax: (+48-22) 6 68 62 54,  
e-mail: biuro.warszawa@grundig.pl

**Grundig spol. s r.o.**

Koperniková 2, CZ - 12 000 Praha 2, Tschechien  
Tel.: (+4 20) 2 - 24 23 90 99, (+4 20) 2 - 24 23 90 81, Fax: (+4 20) 2 - 24 23 51 01,  
e-mail: grundig@login.cz

**Grundig Magyarország Kft.**

Bécsi út 85, H - 1036 Budapest, Ungarn  
Tel.: (+36) 1 - 25 08 142, (+36) 1 - 25 08 143, Fax: (+36) 1 - 25 08 144  
e-mail: judit.doroszlai@grundig.hu

**Grundig Slovenija d.o.o.**

Dunajska 22, SL - 1511 Ljubljana, Slowenien  
Tel.: (+3 86) 1 - 232 88 79, (+3 86) 1 - 232 88 83, Fax: (+3 86) 1 - 232 86 86  
e-mail: mitja.marn@grundig.com

**Grundig Hrvatska d.o.o.**

Metalceva 5, HR - 10000 Zagreb, Kroatien  
Tel.: (+3 85) 1 - 3 09 34 06, Fax: (+3 85) 1 - 3 09 17 78  
e-mail: grundig-hrvatska@zg.tel.hr



**Grundig AG – Overseas Sales Division****HEADQUARTERS**

Grundig AG  
Overseas Sales Division  
Beuthener Strasse 41  
90471 Nuremberg  
Germany

Tel.: (+49-911) 703-0  
Fax: (+49-911) 703-7134  
e-mail: [info@grundig.com](mailto:info@grundig.com)  
<http://www.grundig.com>

**EUROPE****RUSSIA**

Grundig - Representative Office Moscow  
Denissovskij Pereulok 26-28  
107055 Moscow

Tel.: (+7-095) 933 5131  
Fax: (+7-095) 933 5132  
e-mail: [grundig@dol.ru](mailto:grundig@dol.ru)  
<http://www.grundig.ru>

**Distributors in Europe****CYPRUS**

Ideal Grafico Ltd.  
14 C Stassinou Ave.  
P.O. Box 4809  
Nicosia 1304

Tel.: (+35-72) 752 109  
Fax: (+35-72) 750 943  
e-mail: [graphicocy@logos.cy.net](mailto:graphicocy@logos.cy.net)

**GEORGIA**

KST Ltd.

Tel.: (+995-32) 987 830  
e-mail: [Mdzhobadze@aol.com](mailto:Mdzhobadze@aol.com)

**GREECE**

ELEX A.S.  
13th km National Road  
14564 Kifissia  
Athens

Tel.: (+30-1) 807 5403  
Fax: (+30-1) 807 6704  
e-mail: [info@grundig.gr](mailto:info@grundig.gr)  
e-mail: [ellex@acci.gr](mailto:ellex@acci.gr)  
<http://www.grundig.gr>

**ICELAND**

Television Center Ltd.  
Sidumula 2  
128 Reykjavik

Tel.: (+354-5) 689 090  
Fax: (+354-5) 680 390  
e-mail: [verslun@sm.is](mailto:verslun@sm.is)  
<http://www.sm.is>

**MALTA**

Jokate Group of Co. Ltd.  
Jokate Buildings  
P.O. Box 1  
Msida

Tel.: (+356) 221 012  
Fax: (+356) 243 154  
e-mail: [jokate@vol.net.mt](mailto:jokate@vol.net.mt)

**TURKEY**

Mercansoy A.S.  
Yildirim Mah.  
Ali Fuat Basgil Cad. 43, Bayrampasa  
34170 Istanbul

Tel.: (+90-212) 649 3296  
Fax: (+90-212) 537 5698  
e-mail: [infomer@mercansoy.com.tr](mailto:infomer@mercansoy.com.tr)

**AFRICA****ALGERIA**

E.I.P.EL  
14, Rue Lulli  
Alger 16000

Tel.: (+213-2) 725 259 , 725 261  
Fax: (+213-2) 726 397

**Egypt**

IEP International Electrical Products  
3<sup>rd</sup> Industrial Zone  
Lot No. 268  
6<sup>th</sup> October City

Tel.: (+20-11) 342 790, -92, -93  
Fax: (+20-11) 342 791, -95

**ETHIOPIA**

Cabey Private Limited  
Box 18192  
Addis Ababa

Tel.: (+251-1) 711 941, 713 726  
Fax: (+251-1) 711 587

**KENYA**

Jacky's (Kenya) Ltd.  
Laxcon House  
Limuru Road, P.O. Box 45977  
Nairobi

Tel.: (+254-2) 750 974, 746 452  
Fax: (+254-2) 749 690  
e-mail: jackys@nbnet.co.ke

**MOROCCO**

Umareq  
43, Bld. Ibn. Tachfine  
Casablanca

Tel.: (+212-2) 301 542  
Fax: (+212-2) 303 003  
e-mail: Umareq@casanet.net.ma

**NAMIBIA**

AMG Industries CC  
4 Karin Muir Str.  
P.O. Box 80262  
Olympia - Windhoek

Tel.: (+264-61) 244 474  
Fax: (+264-61) 244 474  
e-mail: anneka@iafrica.com.na

**SOUTH AFRICA**

Deutsche Electronics (SA)  
25 Park Lane, Cnr Avenue Road  
Fordsburg  
P.O. Box 551, Johannesburg

Tel.: (+27-11) 833 1346  
Fax: (+27-11) 833 6154  
e-mail: info@grundig.co.za

**UGANDA**

Baba Trading Est. Ltd.  
P.O. Box 26226  
Kampala

Tel.: (+256-41) 223 426  
Fax: (+256-41) 223 426  
e-mail: jackys@swiftuganda.com

**AMERIKA****ARGENTINA**

Crown Mustang S.A.  
Av. Eva Perón 7455 / 85  
1439 Buenos Aires

e-mail: **information  
technique  
sales**

Tel.: (+54-11) 686 1071  
Fax: (+54-11) 686 4551  
info@crown-mustang.com.ar  
service@crown-mustang.com.ar  
ventas@crown-mustang.com.ar

**MEXICO**

Grupo Gomo  
Av. Tlahuac No. 171  
Col. Sta. Isabel Industrial  
C.P. 09820, Mexico D.F.

Tel.: (+52-5) 697 0180  
Fax: (+52-5) 697 9932  
e-mail: rcabrera@gomo.com.mx

**USA / CANADA** (Distributor for World Receivers )

Lextronix Inc.  
3520 Haven Avenue, Unit L  
Redwood City, CA 94063

Tel.: (+1-650) 361 1611  
Fax: (+1-650) 361 1724  
e-mail: grundig@ix.netcom.com  
<http://www.grundigradio.net>

Toll free numbers  
USA (+1-800) 872 2228  
Canada (+1-800) 637 1648

**USA** (Distributor for Car Audio)

ElectroHiFi, LLC  
550 Kirkland Way, STE 200  
Kirkland, WA 98033

Tel.: (+1-206) 953 8227  
Fax: (+1-425) 988 0248  
e-mail: psalzman@electrohifi.com

**ASIA****MIDDLE EAST** (Regional Office)

Grundig Gulf FZE  
P.O. Box 61012  
Jebel Ali  
Dubai / U.A.E.

Tel.: (+971-4) 8838 989  
Fax: (+971-4) 8838 798  
e-mail: gmeja@emirates.net.ae  
<http://www.grundiggulf.com>

Dispatch address:  
Grundig Gulf FZE  
Junction 8, SB-01  
(Behind JVC)  
Dubai / U.A.E.

**Distributors in Asia****ARMENIA**

Zig-Zag Electronics  
Sayat - Nova 20  
Yerevan 375 001

Tel.: (+374-1) 542 757  
Fax: (+374-2) 151 975  
e-mail: zigzag@arminco.com

**AZERBAIJAN**

Universal Technics Co. Ltd.  
Ave. Aziz Aliyev 5  
Baku

Tel.: (+994-12) 929 732  
Fax: (+994-12) 971 134

**BAHRAIN**

United Commercial Agencies  
P.O. Box 166  
Bahrain

Tel.: (+973) 731 691  
Fax: (+973) 730 279

**BAHRAIN**

Yousuf Awadi Group  
P.O. Box 20004  
Manama

Tel.: (+973) 214 666  
Fax: (+973) 210 900

**BANGLADESH**

Sears Electronics  
House 65, Block -D  
Road 15, Banani  
Dhaka - 1213

Tel.: (+880-2) 881 3589 , 881 3590  
Fax: (+880-2) 881 3879, 801 8519  
e-mail: atigroup@bdmail.net

**CHINA / HONGKONG**

Jebsen Group  
Y.S. Tso Ltd.  
28/F., Caroline Centre  
28 Yun Pin Road  
Causeway Bay / Hongkong

Tel.: (+852) 2926 6140  
Fax: (+852) 2375 7656  
e-mail: t.m.lee@mail.jebsen.com.hk

**CHINA P.R.** (Distributor for HiFi products)

MCH Global Ltd.  
Suite 8071, Jingan Center  
No. 8 East Beisanhuan Road  
Chaoyang District  
Beijing 100028

Tel.: (+86-10) 6468 9001  
Fax: (+86-10) 6468 9493  
e-mail: mchchina@public.bta.net.cn

**IRAN**

PARS Grundig – Kish Co.  
Pardis 2 Shopping Centre  
Ground Floor, No. 48  
Kish Island

Tel.: (+98-21) 490 3651  
Fax: (+98-21) 490 3652  
e-mail: m.tavakolian@parsaray.com  
e-mail: plan-p@parselectric.com

**ISRAEL**

PIRA Ltd.  
19, Hatsfira Street  
P.O. Box 28085  
67779 Tel Aviv

Tel.: (+972-3) 687 6230  
Fax: (+972-3) 537 4707  
e-mail: izchak@pilot.co.il  
<http://www.pilot.co.il>

**JORDAN** (Distributor for Projects)

Gi.Rho.Ma Co.  
Kalbouneh Center  
Prince Moh´d Street  
P.O. Box 639  
Amman 11118

Tel.: (+962-6) 566 3964, 566 3848  
Fax: (+962-6) 566 3945  
e-mail: girhoma@go.com.jo

**JORDAN** (Distributor for Consumer Electronics)

Hanna Zananiri & Sons Co.  
P.O. Box 842  
Amman 11118

Tel.: (+962-6) 566 5505, 566 1813  
Fax: (+962-6) 568 2386

**KUWAIT**

Morad Yousuf Behbehani  
P.O. Box 146  
13002 Safat

Tel.: (+965) 481 9734  
Fax: (+965) 484 4053  
e-mail: moradyb@q8isp.com

**LEBANON**

Boulos Freres & Co.  
P.O. Box 1656  
Hazmieh Boulevard  
Beirut

Tel.: (+961-5) 452 332, 459 932  
Fax: (+961-5) 454 155  
e-mail: boulos@dm.net.lb

**MALAYSIA** (Service Partner)  
Luxor Electric Corp. Sdn. Bhd.  
Penthouse, Menara Luxor  
6B, Persiaran Tropicana  
Tropicana Golf & Country Resort  
47410 Petaling Jaya  
Selangor / **Malaysia**

Tel.: (+60-3) 711 9888  
Fax: (+60-3) 711 9889

**OMAN**  
GENETCO  
P.O. Box 3139  
Ruwi 112  
Sultanate of Oman

Tel.: (+968) 704 457  
Fax: (+968) 700 032  
e-mail: genetco@omantel.net.om

**QATAR**  
Blue Salon  
P.O. Box 6255  
Doha

Tel.: (+974) 444 1424  
Fax: (+974) 444 6456  
e-mail: bluesalon@qatar.net.qa

**SAUDI ARABIA**  
Ahmed Ali Badoghaish & Co.  
P.O. Box 65  
Al Khobar 31952

Tel.: (+966-3) 864 6786  
Fax: (+966-3) 898 2585

**SINGAPORE** (Service Partner)  
G8 Progress Asia Pte. Ltd.  
621 Aljunied Road # 04 - 03  
Singapore 389834

Tel.: (+65) 749 4998  
Fax: (+65) 742 6878, 742 7989

**SOUTH KOREA** (Distributor for HiFi / Audio products)  
SAEM Energy Co. Ltd.  
#1304 Samdo Officetel  
Youngdeungpo-Ku  
Seoul

Tel.: (+82-2) 7800 907  
Fax: (+82-2) 7800 905  
e-mail: saem@interpia.net

**SOUTH KOREA** (Service Partner CTV)  
Twentyone International Trading  
Koryo Academitel RM 1421  
437-3, Ahyun-Dong, Mapu-Gu  
Seoul

Tel.: (+82-2) 761 8830  
Fax: (+82-2) 783 0363

**SYRIA**  
Trading & Engineering Center  
P.O. Box 2053  
Damascus

Tel.: (+963-11) 541 6482  
Fax: (+963-11) 541 7031

**TAIWAN R.O.C.**  
GRE Trading Co. Ltd.  
5 F, No. 4 Long 8, Lane 45  
Pao-Hsing Road, Hsintien  
Taipai

Tel.: (+886-2) 2917 7853  
Fax: (+886-2) 2911 7212  
e-mail: gretpe@ms32.hinet.net

**U.A.E.**  
Al Gurg Electronics  
P.O. Box 325  
Dubai / U.A.E.

Tel.: (+971-4) 337 6804  
Fax: (+971-4) 336 5167  
e-mail: gurgtyre@emirates.net.ae

**YEMEN**

General Electronics  
P.O. Box 18105  
Had Street  
Sana'a

Tel.: (+967-1) 269 098  
Fax: (+967-1) 269 097

**YEMEN**

Ghamdan General Trading  
P.O. Box 10932  
T.R. 10932  
Sana'a

Tel.: (+967-1) 279 143  
Fax: (+967-1) 237 715  
e-mail: ggti@y.net.ye

**AUSTRALIA****AUSTRALIA**

Grundig Australia Pty. Ltd.  
26-30 Kent Street  
Belmore NSW 2192  
Sydney

Tel.: (+61-2) 9750 3166  
Fax: (+61-2) 9759 6621

e-mail: **information:** office@grundig-australia.com  
**technique:** support@grundig-australia.com  
**sales:** sales@grundig-australia.com  
<http://www.grundig-australia.com>

**NEW ZEALAND**

Sound Group Holdings Ltd.  
Unit B / 3 Rothwell Ave.  
Albany P.O. Box 302-106  
North Harbour Post Centre  
Auckland

Tel.: (+64-9) 415 6680  
Fax: (+64-9) 415 6683  
e-mail: bob@soundgroup.co.nz

**GENERAL EXPORT AGENT**

TEC Techno Export + Consulting GmbH  
Großmooring 18  
21079 Hamburg  
**GERMANY**

Tel.: (+49-40) 766 9960  
Fax: (+49-40) 766 99628  
e-mail: TEC-Hamburg@t-online.de

## Product Range and Customer Services: Automotive Test and Measuring Systems

### Diagnostic and Information System

GIDIS (Grundig Diagnostic and Information System) for independent as well as proprietary auto workshops.

PC based system with

- SCAN Box to diagnose the electronic systems of vehicles including EOBD (European On Board Diagnostic)
- Oscilloscope and multimeter MSC 200 for vehicle repair
- Info Systems on CD-ROM with vehicle specific data and informations for service and repair
- asanetwork for integration in existing commercial EDP systems e.g. the order acceptance, invoicing, spare parts management, etc.
- Expandable with exhaust gas test equipment to get a complete test station for vehicles (diagnostic and test of a car's emissions).

### Exhaust Gas Test Equipment

- Modular conception for the legally required compulsory annual test of a car's emissions
- Suitable for petrol and diesel vehicles
- Alternatively with and without PC
- Automatic measurement, zero compensation and altitude correction
- Equipped for the new EOBD (European On Board Diagnostic) guidelines
- Integration according to ASA network
- Expandable with diagnostic system to get a complete exhaust gas test and diagnostic station

### RPM Measurement

- DAB 5000 C/ DAB 5100 C for RPM measuring via the on-board power supply
- RPM measuring especially for engines with soundproofing, Common Rail Systems, pump-jet-injection (Pumpe-Düse) systems
- Connection to cigarette lighter
- Adapter cable to connect to all common exhaust gas tester, for all trademarks

### OEM- Supplier

- Supplier of diagnostic and exhaust gas test measurement to the VW, Audi, Seat and Skoda organisations

### Service

- 24-h fixed price exchange service
- Maintenance contracts with permanent guarantee
- Spare parts delivery
- Training
- Calibrating service also for third-party products and communication test equipment
- Hotline

Grundig AG, Geschäftsbereich Instruments, Test- und Mess-Systeme  
 Würzburger Str. 150, D-90766 Fürth, Tel.: (++49-911) 703-4540, Fax: (++49-911) 703-4130  
 eMail: instruments@grundig.com, Internet: <http://www.grundig-instruments.de>



## **Automotive Measuring Instruments**

### **Manager Automotive Measuring Instruments**

Grundig AG  
Geschäftsbereich Instruments  
Test- und Mess-Systeme  
Harald Hahn  
Würzburger Str. 150  
D-90766 Fürth  
Tel.: (+49-911) 703 4 414  
Fax: (+49-911) 703 4 130  
e-mail: harald.hahn@grundig.com

### **Produkt Manager Automotive Measuring Instruments**

Grundig AG  
Geschäftsbereich Instruments  
Test- und Mess-Systeme  
Peter Weinzierl  
Würzburger Str. 150  
D-90766 Fürth  
Tel.: (+49-911) 703 4445  
Fax: (+49-911) 703 4 130  
e-mail: peter.weinzierl@grundig.com

### **Sales Manager Germany - Automotive Measuring Instruments**

Grundig AG  
Geschäftsbereich Instruments  
Test- und Mess-Systeme  
Reinhold Schuster  
Würzburger Str. 150  
D-90766 Fürth  
Tel.: (+49-911) 703 4538  
Fax: (+49-911) 703 4 112  
e-mail: reinhold.schuster@grundig.com

### **Sales Manager Export - Automotive Measuring Instruments**

Grundig AG  
Geschäftsbereich Instruments  
Test- und Mess-Systeme  
Rüdiger Diehn  
Würzburger Str. 150  
D-90766 Fürth  
Tel.: (+49-911) 703 4334  
Fax: (+49-911) 703 4 130  
e-mail: ruediger.diehn@grundig.com



**Business Line (domestic) - Automotive Measuring Instruments**

Stuttgart	LONGUS Paul Lange & CO Nordbahnhofstraße 31 70191 Stuttgart	Tel.: (+49-711) 2588 01 Fax: (+49-711) 2588 104
Hamburg	Johannes J. Matthies GmbH & Co Hammerbrookstr. 97 20097 Hamburg	Tel.: (+49-40) 2 37 21-0 Fax: (+49-40) 2 37 21-363 e-mail: <a href="mailto:info@matthies.de">info@matthies.de</a> internet: <a href="http://www.matthies.de">http://www.matthies.de</a>
München	Stahlgruber Otto Gruber GmbH & Co. Einsteinstr. 130 81675 München	Tel.: (+49-89) 41 51-1 e-mail: <a href="mailto:werkzeuge.werkstatteinrichtungen@stahlgruber.de">werkzeuge.werkstatteinrichtungen@stahlgruber.de</a> internet: <a href="http://www.stahlgruber.de">http://www.stahlgruber.de</a>
Osnabrück	Wessels AG Pagenstecherstr. 121 49090 Osnabrück or: Postbox 43 69 49033 Osnabrück	Tel.: (+49-541) 12 15-0 Fax: (+49-541) 12 15-4 00 e-mail: <a href="mailto:info@wessels-ag.com">info@wessels-ag.com</a> internet: <a href="http://www.wessels-ag.com">http://www.wessels-ag.com</a>
Karlsruhe	Centro GmbH & Co.KG Greschbachstraße 3 76229 Karlsruhe	Tel.: (+49-721) 62502-24

**Business Line (abroad) - Automotive Measuring Instruments**

Belguim	SP BENELUX Mr. Ronny Soeckaert Industriezone Durmakker 13 9940 Evergem (Gent) Belgium	Tel.: (++32-9) 2580008 Fax: (++32-9) 2580011
China	SHENZHEN WANTONG MOTOR CAR TECHNOLOGY DEVELOPMENT CO., LTD Mr. Zhang Donglin 5/F 19 # Yan Shan RD. SheKou /ShenZhen PEOPLE REPUBLIC OF CHINA (PRC)	Tel.: (++86-755) 66 88 966 Fax: (++86-755) 66 79 295 e-mail: wantong@szonline.net
France	LONGUS Paul Lange & CIE 12 , rue Ampere Z . A . F- 67506 Haguenau Cedex	Tel.: (++33) 38893 2101 Fax: (++33) 38893 3432
Greece	Griechisch – Deutsche GmbH KFZ – Werkstattausrüstung Chiropoulos & Sohn Katsantoni 16 GR- 56334 Eleftheria - Thessaloniki	Tel.: (++30-31) 707652 Fax: (++30-31) 707652
Indonesia	GAE PT Guna Electro Jl. Terusan Arjuna 50 RI-Jakarta Barat 11510	Tel.: (++62-21) 5655010 Fax: (++62-21) 5674630
Netherlands	RCA Technisch Adviesbureau Manager: Mr. Ruud Lei jen Startingerweg 21 NL – 1921 AG Akersloot	Tel.: (++31-251) 31 60 28 Fax: (++31-251) 31 60 38
Norway	a.s. Fartskriver Persveien 32 P.B. 78, Oekern 0508 Oslo	Tel.: (++47-22) 64 58 60 Fax: (++47-22) 65 83 50
Austria	Teuber Automotive Componenten GmbH Mr. Deggelsegger Nebingerstr. 3 A 4020 Linz	Tel.: (++43-732) 66 38 52 Fax: (++43-732) 66 38 52-15 e-mail: office.linz@teuber-tac.at
Poland	LONGUS Paul Lange & CO Spolka z o . o . ul . Skarbowa 7 PL 59220 Legnica	Tel.: (++48-76) 86291 97 Fax: +48-76) 86291 07

Portuguesa	GRUBER LDA Rua Oliveira Martins, 10-5° D 2810 Feijo	Tel.: (+351-212) 747679 Fax: (+351-212) 592347
Rumania	Maxim Serv Mr. Constantin Ursi Str. Rodiei Nr. 64 Sect. 3 743244 Bukarest	Tel.: (+40-1) 32 17 464 Fax: (+40-1) 32 17 464 e-mail: ursi@fx.ro
Switzerland	W. Luginbühl AG H. Luginbühl Bruneggerstr. 45 5103 Möriken	Tel.: (+41-62) 893 24 24 Fax: (+41-62) 893 37 05
Spain	Auto Expert Mr. Asis Eghvay Edward C/: Londres, 4-6 Nave 61 Pol. Ind. Albresa 28340 Valdemore (Madrid)	Tel.: (+34-91) 808 14 80 Tel.: (+34-91) 895 69 34 mobil phone: (+34-65) 68 00 138 Fax: (+34-91) 895 04 37
Czechia	UNIVER, spol.s.r.o. Preperska 1809 511 01 Turnov	Tel.: (+42-436) 233 81 Fax: (+42-436) 242 72 e-mail: miroslav.brandejsky@univer.cz
Ukraine	Radial auto Mrs. Natalia Uljanova Pereulok Radistscheva 3 Kiev - 252680 GSP	Tel.: (+380-44) 488 91 95 Tel.: (+380-44) 488 55 90 Fax: (+380-44) 488 51 77 e-mail: radial@auto.relc.com
Hungary	Motorco 2000 Kft. Mr. Jozsef Bartos Cziraki utca 26-32 H- 1163 Budapest	Tel.: (+36-1) 407-7151 Fax: (+36-1) 407-7151 mobil phone: (+36-3095) 49399

## Service Training Courses for our Customers

We train you in intensive courses in the GRUNDIG Central Customer Service division in Nuremberg 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 and digital audio.

Our rooms are furnished for theoretical and hands-on training of 24 participants. Monitors are used to display measured values true to the detail and special measuring and adjustment procedures of the products the participants are to be trained on.

The suitable and modern equipment of measuring instruments makes it possible for the trainees to turn the theoretical knowledge gained directly into practical experience.



For detailed information on these courses please see the service training booklet which is available on request from your competent GRUNDIG contact partner. A registration form is included in this booklet.

For inquiries do not hesitate to contact Mrs. Schmitt Tel. 0911/703-8584

Fax-No.: 0911/703-8626

We ask for your understanding that we can consider only applications in writing.

## Private Study with Service Training Manuals

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

<b>TV Engineering Service Training</b>	<b>Part No. D</b>	<b>Part No. GB</b>
CUC 6360/6365/7300	72010 350 0000	-
Digi IV/ 100Hz Technique	72010 350 0500	-
Pal+ System Principles	72010 350 1000	-
Digi Basic	72010 350 1500	72010 350 1600
Digi Basic ++	72010 350 1700	72010 350 1800
Digi 6 / CUC 1842	72010 350 3000	72010 350 3100
CUC 2000/2010/2030/2050	72010 350 3500	72010 350 3600
Digi Basic 3	72010 350 3700	72010 350 3750
Planatron 2	72010 350 3800	72010 350 3900

<b>Video Engineering Service Training</b>	<b>Part No. D</b>	<b>Part No. GB</b>
GV 400 and variants	72010 525 1000	-
GV 500 and variants	72010 525 1500	-
GV 540/560 HiFi and variants	72010 525 2000	-
HSD Drive Mechanism	72010 525 2500	-
GV 640 and variants	72010 528 9000	72010 528 9100
GV 670-690	72010 528 9300	-
GV 900/940	72010 536 1500	-
GV 7000	72010 531 4000	72010 531 4100
GV 29..., GV 9000..., GV 9300..., GV 94...	72010 537 8000	-
Principles of Digital-Video DV	72010 532 3500	-
MPEG Principles Digital-Video	72010 537 9000	-

<b>Audio/HiFi Engineering: Service Training</b>	<b>Part No. D</b>	<b>Part No. GB</b>
Principles of Audio Engineering	72010 749 5000	-
FM Tuner T11 / T1000	72010 749 5500	-
CD Player CD11 / CD12	72010 749 6000	-
DAB Principles	72010 749 6500	-

## Video Training Film

**Training film: High-speed Video Drive Mechanism HSD** .....Part No.:72007 744 8100  
 Dismantling and re-assembling the drive mechanism • replacement of wearing parts • replacement of the headwheel and the CTL head • adjustment of the tape transport path, tracking position and head gap position indicator • length approx. 30 minutes.

# 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-InfoTip®"**

as a future-orientated communication system.

Further information and quotation of prices are obtainable from:

**InfoTip® Service GmbH • Marketing und Vertrieb**  
**Postfach 510 213 • 44874 Bochum**  
**Tel.: (0180) 567 30 42/43 (24Pf/min.) • Fax (0234) 941 10 02**  
**e-mail: [infotip@t-online.de](mailto:infotip@t-online.de) or [info@infotip.de](mailto:info@infotip.de)**  
**[www.infotip.de](http://www.infotip.de)**

## Grundig Universal Remote Controls



### TV Control 1 Part No.: 72011 601 0000

replaces the following types:

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

and variants

**Programming:**  
Press the Standby and OK buttons simultaneously. Release the buttons and enter the 3-digit code.



## TV Control 2

Part No.: 72011 602 0000

replaces the following types:

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

and variants

### Programming:

Press the Standby and OK buttons simultaneously. Release the buttons and enter the 3-digit code.





**Video Control 1**  
**Part No.: 72011 610 0000**

replaces the following types:

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

and variants

**Programming:**

Press the Standby and OK buttons simultaneously. Release the buttons and enter the 3-digit code.



### SAT Control 1 Part No.: 72011 620 0000

replaces the following types

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

and variants

**Programming:**  
Press the Standby and OK buttons simultaneously. Release the buttons and enter the 3-digit code.



**Telepilot 807 C**  
**Part No.: 29642 061 1700**

replaces the following types:

**Type**

- TP 720
- TP 760
- TP 770

and variants

No programming needed!



**Video Control LCD**  
**Part No.: 72011 615 0000**

replaces the following types:

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

and variants

**Programming:**

Insert battery -> SEL in display -> enter the code and confirm with OK.

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

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

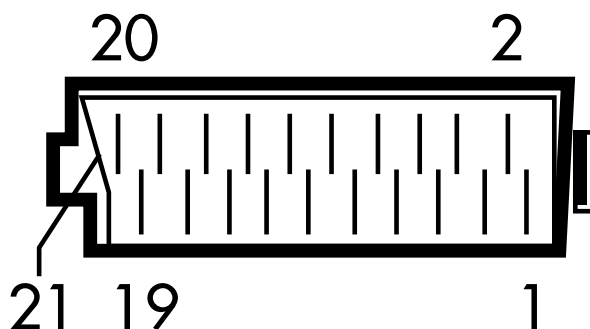
The remote controls are offered in a pleasing sales packing with all operating and coding information printed on it.

## Pinning of Sockets and Plugs

### Pinning of the EURO-AV Socket

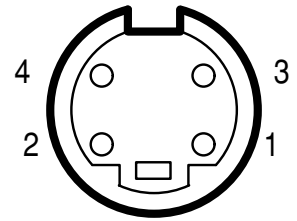
The following table helps you to establish a standard connection of your television receiver to additional equipment on request (e.g. computer, amplifier).

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



**Pinning of Hosiden Socket (S-Video)**

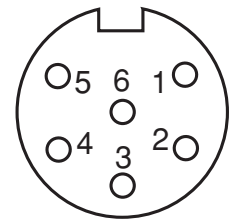
Pin		Signal
1	=	Ground
2	=	Ground
3	=	Y-signal
4	=	Chroma signal



Top View

**Pinning of DIN-AV Socket**

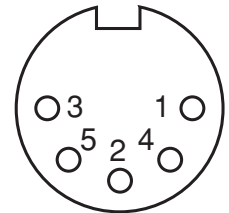
Pin		Signal
1	=	Switching voltage on playback
2	=	CCVS signal
3	=	Ground
4	=	Audio left
5	=	Operating voltage for video adapter
6	=	Audio right



Top View

**Pinning of DIN-Audio Socket**

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



Top View

**Pinning of Jack Plug**

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



### Pinning of ISO Standard Connector Blocks for Car Radios

#### I: Additional block (for Grundig products only)

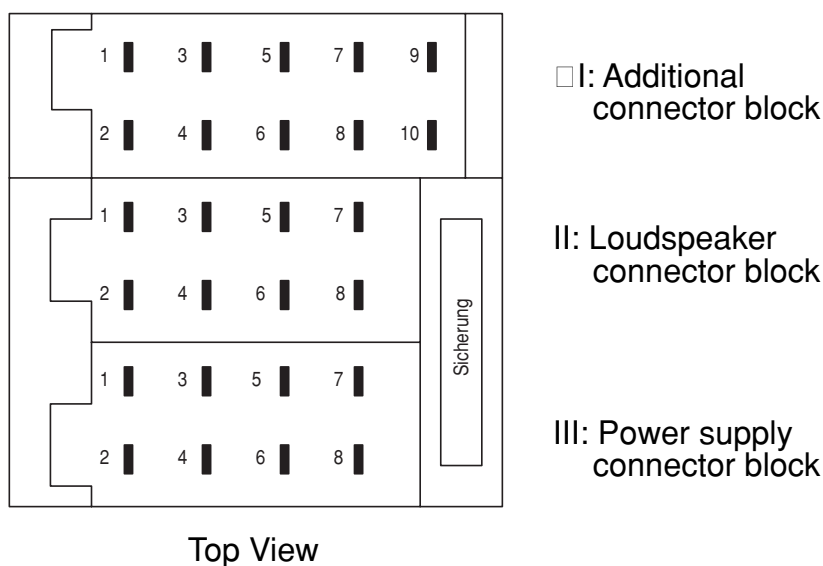
Pin	=	Signal
1	=	TXD
2	=	RXD
3	=	+A CD changer
4	=	+U CDchanger
5	=	GND
6	=	GND
7	=	Line out FR
8	=	Line out RR
9	=	Line out FL
10	=	Line out RL

#### II: Loudspeaker connector block

Pin	=	Signal
1	=	RR+
2	=	RR-
3	=	FR+
4	=	FR-
5	=	FL+
6	=	FL-
7	=	RL+
8	=	RL-

#### 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



## Pinning of ISO Standard Connector Blocks for Car Radios

I: Additional connector (for Grundig products only)

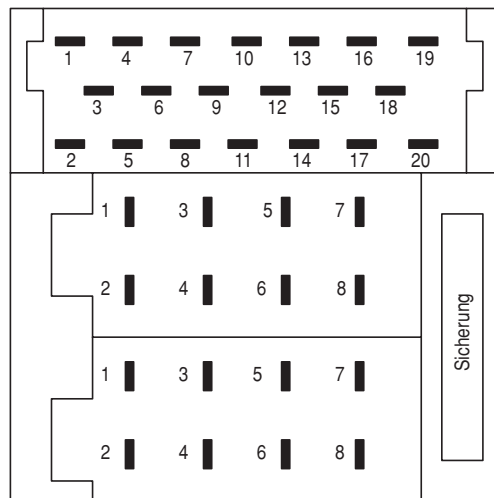
Pin	Signal
1	= Line out RL
2	= Line out RR
3	= Line out GND
4	= Line out FL
5	= Line out FR
6	= +Booster
7	= RXD
8	= TXD
9	= GND
10	= Subwoofer NF
11	= Aux IN
12	= Aux GND
13	= CD-bus
14	= not used
15	= CD-bus GND
16	= +A CD changer
17	= +U CD changer
18	= CD-NF GND
19	= CD-NF left
20	= CD-NF right

II: Loudspeaker connector block

Pin	Signal
1	= RR+
2	= RR-
3	= FR+
4	= FR-
5	= FL+
6	= FL-
7	= RL+
8	= RL-

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



□ I: Additional connector block

□ II: Loudspeaker connector block

□ III: Power supply connector block

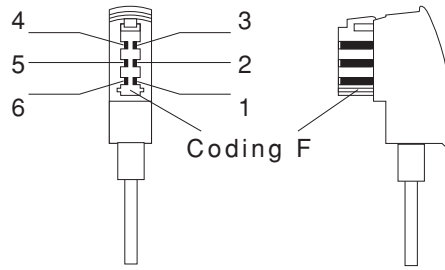
Top View



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

Standardized contact configuration  
(TAE-plug)

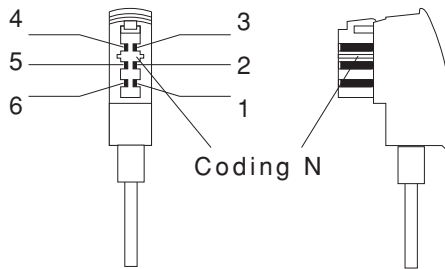
- 1 --> A      4 --> E
  - 2 --> B      5 --> NC
  - 3 --> W2     6 --> NC
- (NC = not connected)



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

Standardized contact configuration  
(TAE-plug)

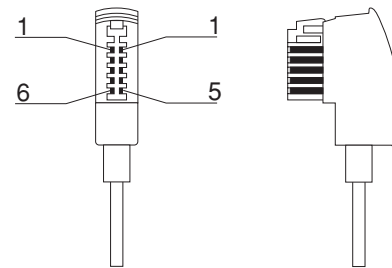
- 1 --> A      4 --> E
- 2 --> B      5 --> B1
- 3 --> W2     6 --> A1



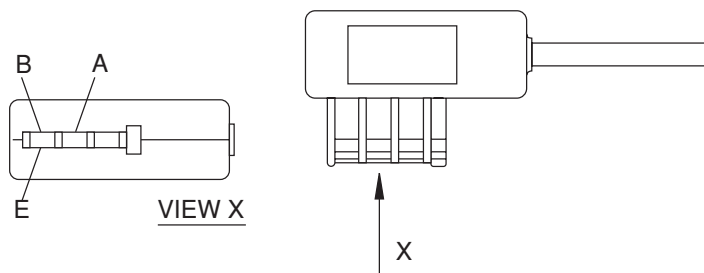
**Connecting plug for Austrian variant**

Contact configuration

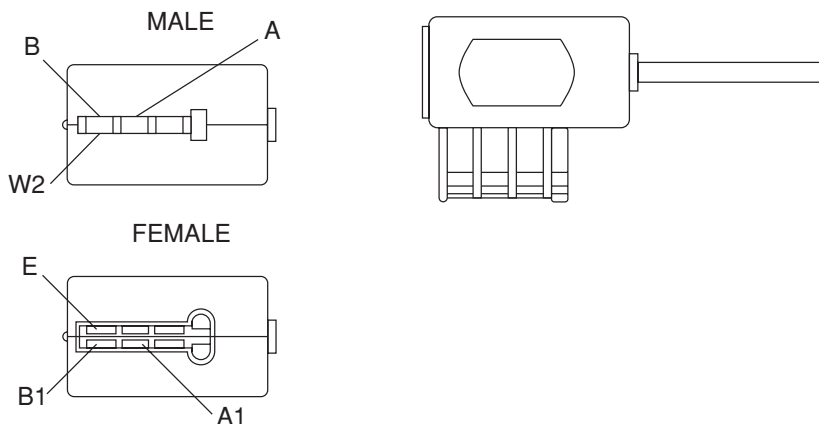
- 1 --> A      6 --> B1
  - 2 --> E      7 --> NC
  - 3 --> W2     8 --> NC
  - 4 --> NC     9 --> NC
  - 5 --> B      10 --> A1
- (NC = not connected)



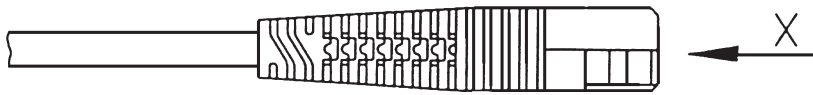
**Connecting plug for French variant 1**



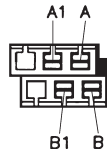
**Connecting plug for French variant 2**



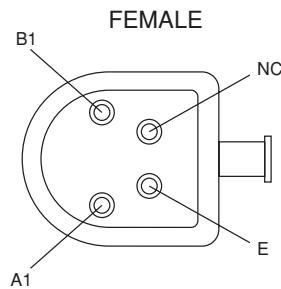
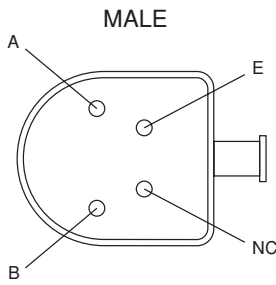
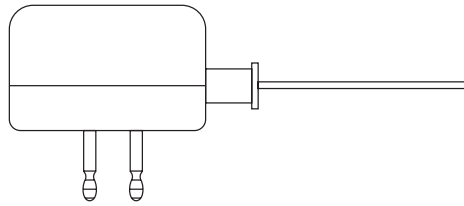
Connecting plug for Swiss variant



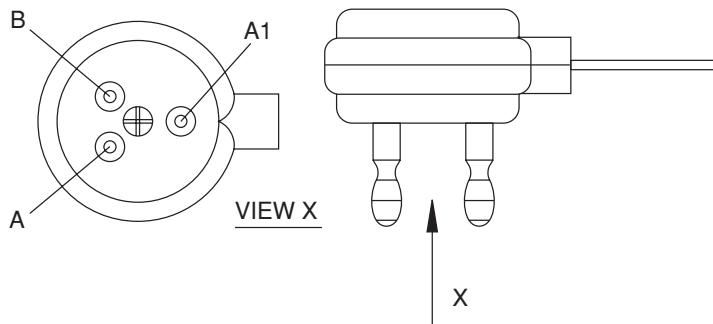
VIEW X



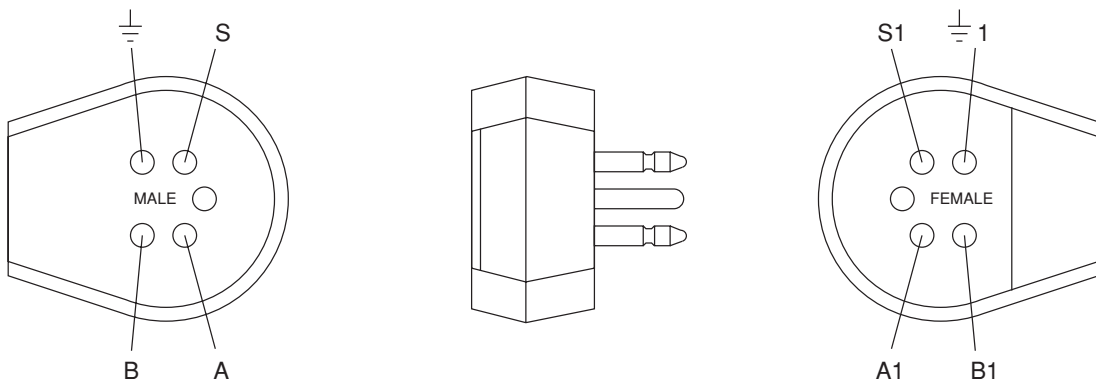
Connecting plug for Dutch variant



Connecting plug for Italian variant



Connecting plug for Belgian Variant



## Contents: TV

Frequencies and Standards.....	2.2
Standards and Channels .....	2.3
Television Standards of the World .....	2.6
Special Channel Numbers/Frequencies .....	2.9
Hyperband in Germany.....	2.10
Channel Overview.....	2.11
Handling of the Sets Chart.....	2.12
Module Coding for the Sets Chart .....	2.13
Sets Chart.....	2.15
Tele-Pilot® Remote Control Handsets / Overview.....	2.39
Retrofitting Options for Super-Color Television Receivers (till 1998/1999).....	2.41
SAT Retrofitting Options .....	2.49
VGA Retrofitting Options.....	2.61
PIP Retrofitting Options .....	2.64
DPL Retrofitting Options .....	2.69
Special Functions of Colour Television Receivers .....	2.70
Service Manuals from 1996 onwards:	
- sorted by TV sets.....	2.79
- sorted by chassis.....	2.103

## Frequencies and Standards

### Allocation of Frequencies

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-TV 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

50 Hz field frequency, 60 Hz only Standard M \*) NTSC = 3.579 MHz

### Band IV/V - European and African Standards

(only 625 lines, channel bandwidth 8 MHz)

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

### Satellite Bands

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

## Standards and Channels

### Standard A

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

### Standard B/C/F/G

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

### Standard D \*)

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

\*) UHF channels and vision carriers like Standard B, vision to sound carrier spacing + 6,5 MHz each

**Standard E**

	Picture MHz	Sound MHz		Picture MHz	Sound MHz
Ch 2	52,4	41,25	Ch 8	185,25	174,1
Ch 4	65,55	54,4	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	Ch 21	Band IV/V 471,25	477,25
D	175,25	181,25	Ch 22		479,25
E	183,25	189,25			
F	191,25	197,25		up to *	
G	199,25	205,25			
H	207,25	213,25	Ch 67	839,25	845,25
I	215,25	221,25	Ch 68	847,25	853,25

\*Channel allocation and vision carriers like Standard B. Vision to sound carrier spacing + 6 MHz each.

**Standard K' (French overseas territories)**

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

**Standard M/N**

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

**Television Standards of the World** (as far as known to us)

with indication of the mains voltage and mains frequency

Country	b/w	Colour	Mains Voltage Volt	Mains Frequency Hz
Afghanistan	B	PAL	220	50
Albania	B/G	PAL	220	50
Algeria	B/H	PAL	127-220	50
Angola	I	PAL	220	50
Antigua	M	NTSC	230	50
Argentina	N 1)	PAL	220	50
Australia	B/H 1)	PAL	240	50
Austria	B/G	PAL	220	50
Azores	B	PAL	220	50
Bahamas	M	NTSC	120	60
Bahrain	B	PAL	230	50-60
Bangladesh	B	PAL	220-230	50
Barbados	N	NTSC	110-220	50
Belgium	B/H	PAL	220	50
Benin	K´	SECAM	220	50
Bermuda	M	NTSC	115-120	60
Bolivia	N	NTSC	115-230	50-60
Botswana	I 1)	PAL	220	50
Brasil	M	PAL	220	60
Brunei	B	PAL	230	50
Bulgaria	D/K	SECAM (B/Z)	220	50
Burkina Fasso	K´	SECAM	220	50
Burkina Fasso (Upper Volta)	K´	SECAM	220	50
Burma	M	NTSC	220	50
Burundi	K1	SECAM	220	50
Cambodia	B/G	PAL	120-220	50
Cameron	B/G	PAL	127-220	50
Canada	M	NTSC	120	60
Canary Islands	B/G	PAL	127-220	50
Central African Republic	K	SECAM	220	50
Chad	K´	SECAM	220	50
Chile	M	NTSC	220	50
China (People's Republic)	D/K	PAL	220	50
Colombia	M	NTSC	120	60
Congo (Republic)	K´	SECAM	220	50
Costa Rica	M	NTSC	120	60
Croatia	B/G	PAL	220	50
Cuba	M	NTSC	115-120	60
Cyprus	B/G	SECAM (Z) + PAL	240	50
Czechia	D/K	PAL	220	50
Denmark	B/G	PAL	220	50
Djibouti	K´	SECAM	220	50
Dominican Republic	M	NTSC	110	60
Ecuador	M	NTSC	110-220	60
Egypt	B/H	SECAM	110-220	50
El Salvador	M	NTSC	115	60
Ethiopia	B/G	PAL	220	50
Fiji Islands	B	PAL	240	50
Finland	B/G	PAL	230	50
France	E/L	SECAM (Z)	220	50
Gabon	K´	SECAM	220	50
Germany	B/G	PAL	230	50
Ghana	B	PAL	220	50
Gibraltar	B/H	PAL	240	50
Great Britain	A/I	PAL	210-240	50

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



Country	b/w	Colour	Mains Voltage Volt	Mains Frequency Hz
Greece	B/H	PAL	220	50
Greenland	M	NTSC	220	50
Guadelope	K'	SECAM	220	50
Guatemala	M	NTSC	110-220	60
Guayana (French)	K'	SECAM	220	50
Guinea Republic	K'	SECAM	220	50
GUS states (former)	D/K	SECAM (B/Z)	127-220	50
Haiti	M	NTSC	110-220	50-60
Hawaii	M	NTSC	120	60
Honduras	M	NTSC	110-220	60
Hong Kong	I	PAL	220	50
Hungary	D/K	PAL	220	50
Iceland	B/G	PAL	220	50
India	B	PAL	220	50
Indonesia	B	PAL	220	50
Iran	B/G	SECAM (Z)	220	50
Iraq	B	SECAM (Z)	220	50
Ireland (Republic)	I	PAL	220	50
Israel	B/G	PAL	230	50
Italy	B/G	PAL	127-220	50
Ivory Coast	K'	SECAM (B)	220	50
Jamaica	M	NTSC	220	50
Japan	M 1)	NTSC	100-200	50/60
Jordan	B/G	PAL	220	50
Kenya	B	PAL	240	50
Korea (People's Republic)	D	SECAM	100-200	50
Korea (Republic)	M	NTSC	220	60
Kuwait	B/G	PAL	240	50
Laos	M	PAL	127-220	50
Lebanon	B	SECAM (Z)	110-220	50
Liberia	B	PAL	120	60
Libya	B/H	SECAM (Z)	127-230	50
Luxembourg	B/G/L	PAL/SECAM (Z)	120-220	50
Madagascar	K'	SECAM	127-220	50
Madeira	B	PAL	220	50
Malaysia	B/G	PAL	240	50
Maldive Islands	B	PAL	230	50
Malta	B/H	PAL	240	50
Martinique	K'	SECAM (B)	220	50
Mauritania	K'	SECAM	220	50
Mauritius	B	SECAM	230	50
Mexico	M	NTSC	120	60
Monaco	E/L/G	PAL/SECAM (B/Z)	127-220	50
Mongolia	D	SECAM (B/Z)	220	50
Morocco	B/H	SECAM (B)	115-230	50
Mozambique	B	PAL	220	50
Netherlands	B/G	PAL	220	50
Netherlands Antilles	M	NTSC	115-223	50-60
New Caledonia	K'	SECAM	220	50
New Zealand	B1)	PAL	240	50
Nicaragua	M	NTSC	120	60
Niger	K'	PAL	220	50
Nigeria	B/I	PAL	230	50
Norway	B/G	PAL	230	50
Oman	B/G	PAL	220	50

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



Country	b/w	Colour	Mains Voltage Volt	Mains Frequency Hz
Pakistan	B	PAL	220-230	50
Panama	M	NTSC	120	60
Paraguay	N	PAL	220	50
Peru	M	NTSC	220	60
Philippines	M	NTSC	220	60
Poland	D/K	PAL	220	50
Portugal	B/G	PAL	220	50
Puerto Rico	M	NTSC	120	60
Quatar	B	PAL	240	50
Republic of South Africa	I1)	PAL	230	50
Rumania	D/K	PAL	220	50
Rwanda	K'	PAL/SECAM	220	50
Samoa	M	NTSC	230	50
Saudi Arabia	B/G	PAL/SECAM (Z)	220	50-60
Senegal	K'	SECAM	127-220	50
Sierra Leone	B	PAL	220	50
Singapore	B/G	PAL	230	50
Slovakia	D/K	PAL	220	50
Slovenia	B/G	PAL	220	50
Somalia	B/G	PAL	110-230	50
Spain	B/G	PAL	127-220	50
Sri Lanka	B/H	PAL	220	50
St. Pierre and Miquel	K'	SECAM		
Sudan	B	PAL	240	50
Surinam	M	NTSC	110-127	60
Swaziland	B/G	PAL	230	50
Sweden	B/G	PAL	220	50
Switzerland	B/G	PAL	220	50
Syria	B	PAL	115-220	50
Tahiti	K'	SECAM	120-240	60
Taiwan	M	NTSC	120	60
Tanzania	B	PAL	230	50
Thailand	B/G	PAL	220	50
Togo	K'	SECAM	127-220	50
Trinidad and Tobago	M	NTSC	115-230	60
Tunisia	B/G	SECAM	127-220	50
Turkey	B/G	PAL	220	50
Uganda	B/G	PAL	240	50
United Arab Emirates	B/G	NTSC	220-240	50
Uruguay	N	PAL	220	50
USA	M	NTSC	110	60
Venezuela	M	NTSC	120	60
Vietnam	D/M	NTSC/SECAM	120-230	50
Virgin Islands	M	NTSC	120	60
Yemen (Republic)	B	PAL	220	50
Yugoslavia (former)	B/G	PAL	220	50
Zaire	K'	SECAM	220	50
Zambia	B	PAL	220	50
Zanzibar	I	PAL	230	50
Zimbabwe	B/G	PAL	220	50

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

#### Notes:

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

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

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

Channel No. Indication	Special Channel	Vision Carrier Frequency (MHz)	Band
81	S 1	105,25	Lower Special Channel Band "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	
78		97,25	
79		59,25	OIRT Channels
80		93,25	

TV

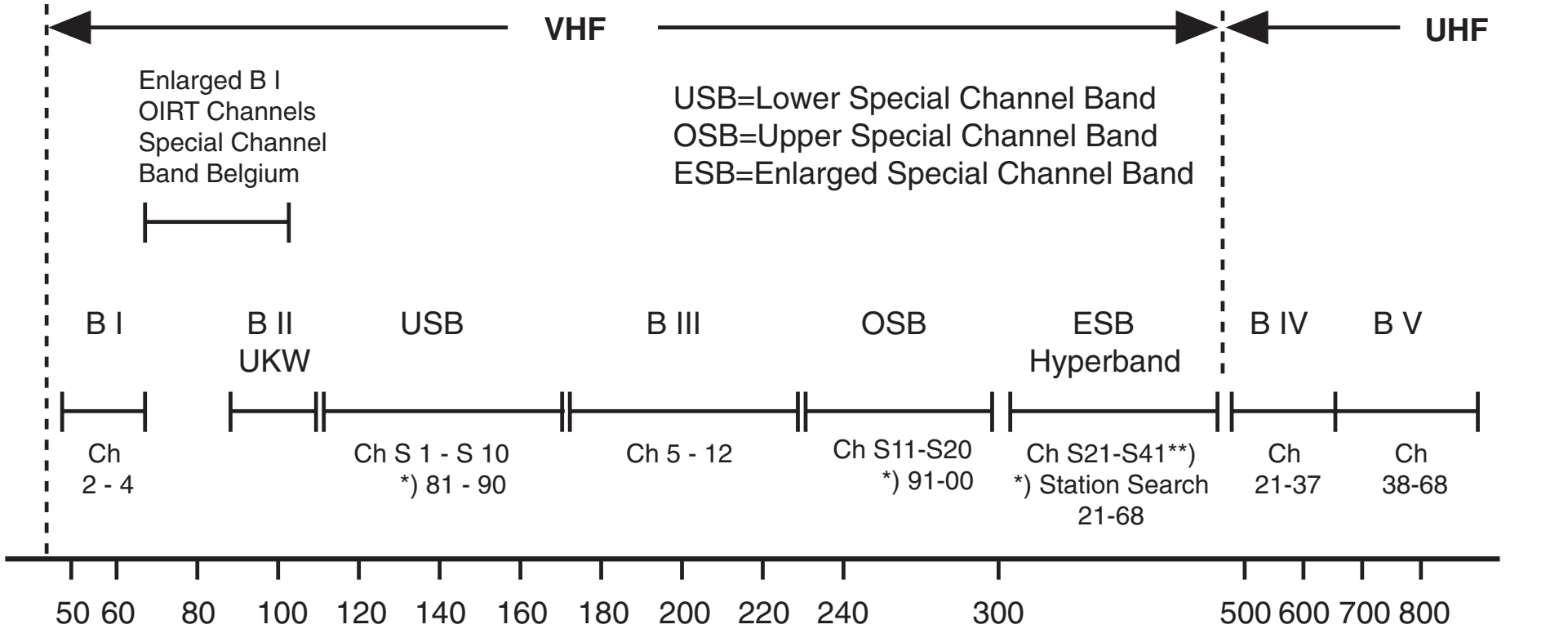
## Hyperband in Germany

GRUNDIG television receivers fitted with the Tuner 29504 101 0100/0600 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,  
Tel. ++49 9855/9777-0 FAX 09855/977720

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 alterations!



\*) Channel numbers in non-direct indicating colour models

\*\*) 8 MHz or 12 MHz channels (see chart opposite)

→ MHz





## Module Coding for the Sets Chart (from Page 15 on)

### Tuning Modules

<b>01</b>	29504 003 6500
<b>02</b>	29504 003 8100
<b>03</b>	29504 003 8100
<b>04</b>	29504 003 8100
<b>05</b>	29504 003 8400
<b>06</b>	29504 003 8800
<b>07</b>	29504 003 9500
<b>08</b>	29504 103 6800
<b>09</b>	29504 103 7100
<b>10</b>	29504 103 7400
<b>11</b>	29504 103 8000
<b>12</b>	29504 103 8100
<b>13</b>	29504 103 8400
<b>14</b>	29504 103 8700
<b>15</b>	29504 103 9300
<b>16</b>	29504 103 9500

### Control Units

<b>01</b>	29501 080 2100
<b>02</b>	29501 080 8200
<b>03</b>	29501 080 9700
<b>04</b>	29501 082 1300
<b>05</b>	29501 082 1900
<b>06</b>	29501 082 3300
<b>07</b>	29501 082 3400
<b>08</b>	29501 082 4200
<b>09</b>	29501 082 5900
<b>10</b>	29501 082 6100
<b>11</b>	29501 082 6200
<b>12</b>	29501 082 7000
<b>13</b>	29501 082 7600
<b>14</b>	29501 082 7900
<b>15</b>	29501 082 8100
<b>16</b>	29501 082 8200
<b>17</b>	29501 082 8800
<b>18</b>	29501 085 0100
<b>19</b>	29501 085 0200
<b>20</b>	29501 085 0400
<b>21</b>	29501 085 0800
<b>22</b>	29501 085 1200
<b>23</b>	29501 085 0700
<b>24</b>	29501 082 7500
<b>25</b>	29501 082 8300
<b>26</b>	29501 085 1800
<b>27</b>	29501 085 1600

### CRT Panels

<b>01</b>	29305 022 0700
<b>02</b>	29305 022 1100
<b>03</b>	29305 022 1200
<b>04</b>	29305 022 1400
<b>05</b>	29305 022 1500
<b>06</b>	29305 022 1600
<b>07</b>	29305 022 1700
<b>08</b>	29305 022 1900
<b>09</b>	29305 022 2000
<b>10</b>	29305 022 3100
<b>11</b>	29305 022 3500
<b>12</b>	29305 022 3600
<b>13</b>	29305 022 3700
<b>14</b>	29305 022 3900
<b>15</b>	29305 022 4400
<b>16</b>	29305 022 7500
<b>17</b>	29305 022 7700
<b>18</b>	29305 022 7800
<b>19</b>	29305 022 8400
<b>20</b>	29305 022 8700

<b>21</b>	29305 022 8800
<b>22</b>	29305 022 9000
<b>23</b>	29305 122 0100
<b>24</b>	29305 122 0200
<b>25</b>	29305 122 0300
<b>26</b>	29305 122 0400
<b>27</b>	29305 122 0500
<b>28</b>	29305 122 0600
<b>29</b>	29305 122 0700
<b>30</b>	29305 122 1000
<b>31</b>	29305 122 1100
<b>32</b>	29305 122 1200
<b>33</b>	29305 122 1400
<b>34</b>	29305 122 1500
<b>35</b>	29305 122 1600
<b>36</b>	29305 122 1700
<b>37</b>	29305 122 1800
<b>38</b>	29305 122 1900
<b>39</b>	29305 122 2000
<b>40</b>	29305 122 2100
<b>41</b>	29305 122 2300
<b>42</b>	29305 122 2400
<b>43</b>	29305 122 2500
<b>44</b>	29305 122 2600
<b>45</b>	29305 122 2800
<b>46</b>	29305 122 3000
<b>47</b>	29305 022 1800
<b>48</b>	29305 122 2900

### Socket Boards

<b>01</b>	29304 060 9300
<b>02</b>	29304 160 0600
<b>03</b>	29305 008 3600
<b>04</b>	29305 008 3700
<b>05</b>	29305 008 3800
<b>06</b>	29305 008 4000
<b>07</b>	29305 008 4100
<b>08</b>	29305 008 8300
<b>09</b>	29305 160 0500
<b>10</b>	29305 160 0600
<b>11</b>	29305 160 1500
<b>12</b>	29305 160 3400
<b>13</b>	29305 160 6000
<b>14</b>	29305 160 6300
<b>15</b>	29305 160 5400
<b>16</b>	29305 160 5300
<b>17</b>	29305 008 4300
<b>18</b>	29305 008 4400

### EPG Boards

<b>01</b>	29305 129 0300
<b>02</b>	29305 129 1100
<b>03</b>	29305 129 0900

### Colour-Synchro Boards

<b>01</b>	29504 105 5600
<b>02</b>	29504 105 5700
<b>03</b>	29504 105 6700
<b>04</b>	29504 165 6700
<b>05</b>	29504 165 7000
<b>06</b>	29504 165 7200
<b>07</b>	29504 165 7400

### Feature Boxes

<b>01</b>	29504 103 3200
<b>02</b>	29504 103 3500
<b>03</b>	29504 103 3600
<b>04</b>	29504 103 3700

<b>05</b>	29504 103 3800
<b>06</b>	29504 103 3900
<b>07</b>	29504 103 4100
<b>08</b>	29504 103 4200
<b>09</b>	29504 103 4400
<b>10</b>	29504 209 0100
<b>11</b>	29504 209 0200
<b>12</b>	29504 209 0300
<b>13</b>	29504 209 0500
<b>14</b>	29504 209 0400
<b>15</b>	29504 209 1300
<b>16</b>	29504 209 1500

### Keyboards

<b>01</b>	29501 081 8500
<b>02</b>	29501 081 9500
<b>03</b>	29501 083 0200
<b>04</b>	29501 083 0400
<b>05</b>	29501 083 2400
<b>06</b>	29501 083 2500
<b>07</b>	29501 083 2500
<b>08</b>	29501 083 4400
<b>09</b>	29501 083 7000
<b>10</b>	29501 083 8000
<b>11</b>	29501 083 8200
<b>12</b>	29501 083 8300

### Mains Switch Boards

<b>01</b>	29305 165 1900
<b>02</b>	29305 165 6400
<b>03</b>	29305 165 6800
<b>04</b>	29305 165 7100
<b>05</b>	29305 165 7300
<b>06</b>	29305 165 7600
<b>07</b>	29305 165 8100
<b>08</b>	29305 165 8200
<b>09</b>	29305 165 8300
<b>10</b>	29305 165 8400
<b>11</b>	29305 165 7500
<b>12</b>	29305 165 8700
<b>13</b>	29305 165 9000
<b>14</b>	29305 165 9100
<b>15</b>	29305 165 9200

### AF Modules

<b>01</b>	29504 102 8100
<b>02</b>	29504 102 8200
<b>03</b>	29504 104 2600
<b>04</b>	29504 104 2800
<b>05</b>	29504 104 2900
<b>06</b>	29504 104 4100
<b>07</b>	29504 104 4200
<b>08</b>	29504 104 4300
<b>09</b>	29504 104 5600
<b>10</b>	29504 104 6300
<b>11</b>	29504 104 6700
<b>12</b>	29504 104 6800
<b>13</b>	29504 104 6900
<b>14</b>	29504 104 7000
<b>15</b>	29504 104 7100
<b>16</b>	29504 104 7200
<b>17</b>	29504 104 7500
<b>18</b>	29504 104 7700
<b>19</b>	29504 104 8100
<b>20</b>	29504 104 8200
<b>21</b>	29504 104 8300
<b>22</b>	29504 104 8400
<b>23</b>	29504 104 8500

<b>24</b>	29504 204 0100
<b>25</b>	29504 204 0300
<b>26</b>	29504 204 0400
<b>27</b>	29504 204 0500
<b>28</b>	29504 204 0600
<b>29</b>	29504 102 8300
<b>30</b>	29504 102 8400
<b>31</b>	29504 204 1300

### East/West Boards

<b>01</b>	29504 107 6200
<b>02</b>	29504 107 6400
<b>03</b>	29504 107 6500
<b>04</b>	29504 107 6700
<b>05</b>	29504 107 8800
<b>06</b>	29504 107 8900
<b>07</b>	29504 107 9300

### PIP Modules

<b>01</b>	29504 106 5100
<b>02</b>	29504 106 5200
<b>03</b>	29504 106 5300
<b>04</b>	29504 106 5400
<b>05</b>	29504 165 9400
<b>06</b>	29504 165 9600
<b>07</b>	29504 165 9700
<b>08</b>	29504 165 9800
<b>09</b>	29504 206 0100
<b>10</b>	29524 106 5100

### Processor Panels

<b>01</b>	29305 119 7100
<b>02</b>	29305 219 0200
<b>03</b>	29305 219 0300
<b>04</b>	29305 219 0600
<b>05</b>	29305 219 0700
<b>06</b>	29305 219 1300
<b>07</b>	29305 319 0300
<b>08</b>	29504 203 0100
<b>09</b>	29504 203 0200
<b>10</b>	29504 203 0400
<b>11</b>	29504 203 0600
<b>12</b>	29504 203 0800
<b>13</b>	29504 203 0900
<b>14</b>	29305 319 0100
<b>15</b>	29305 319 0200
<b>16</b>	29504 203 0500
<b>17</b>	29504 203 0700
<b>18</b>	29504 203 1600
<b>19</b>	29305 219 1400
<b>20</b>	29504 203 1400

### SAT Modules

<b>01</b>	29504 106 2200
<b>02</b>	29504 106 2300
<b>03</b>	29504 106 2800
<b>04</b>	29504 222 0100

**Signal Modules**

01	29504 102 3400
02	29504 102 3500
03	29504 102 3600
04	29504 162 3400
05	29504 162 3500
06	29504 162 3600
07	29504 162 3700
08	29504 202 0100
09	29504 212 0200
10	29504 262 0100
11	29504 212 0300
12	29504 262 0200
13	29504 262 0300
14	29504 202 0100

**Tuners**

01	29504 101 2500
02	29504 201 0100
03	29504 201 2100
04	29504 201 3100
05	29504 201 7300
06	29504 301 0100
07	61406 016 1000
08	61406 016 1200
09	61406 016 1300
10	61406 016 1400
11	75990 200 5400
12	81406 016 1000
13	81406 016 1200
14	81406 016 1300
15	81406 016 1400
16	81406 016 1900

17	29504 301 0200
18	29504 301 0300
19	29504 301 0400
20	81406 016 1100
21	81406 016 1500

**IF Modules**

01	29504 002 3200
02	29504 042 3100
03	29504 102 3300
04	29504 102 5600
05	29504 102 5700
06	29504 142 3000
07	29504 162 4600
08	29504 162 4700
09	29504 162 4800
10	29504 162 5600
11	29504 162 5700
12	29504 162 5800

**VGA Modules**

01	29305 160 3500
02	29305 160 3600
03	on Processor PCB

**Video Modules**

01	29504 105 7200
02	29504 165 6400
03	29504 165 7100
04	29504 165 7300

**Different Modules**

01	Display Unit	29501 080 9400
02	Double Window Module	29504 109 2100
03	BSO Board	29305 119 4400
04	Dolby Module	29305 119 1700
05	Dyn. Focus.	29305 025 2900
06	Dyn. Focus.	29305 025 3600
07	Dyn. Focus.	29305 025 3700
08	Dyn. Focus.	29305 025 4200
09	EURO AV3 Board	29305 160 3700
10	Feature Board	29305 129 0700
11	Feature Board CTI/LTI	29305 119 3500
12	Felocity Modulation Board	29305 108 0700
13	Felocity Modulation Board	29305 108 0400
14	Felocity Modulation Board	29305 108 0500
15	Felocity Modulation Board	29305 108 0600
16	IRDT Module	29504 207 0100
17	LFR Board	29305 014 4100
18	Seagull Correction Board	29304 019 9700
19	Mains Interference Elimination Board	29308 150 0700
20	Mains Unit 12V	29305 007 3200
21	Mains Unit Standby	29304 050 2900
22	Mains Unit Standby	29304 050 8200
23	PALplus (Feature Box)	29305 014 4000
24	Panorama View	29305 129 0400
25	Rotation Board	29305 129 0200
26	UG2-Shift/Panorama View	29305 119 4300
27	Teletext	29504 108 3900
28	YUV Interface Board	29305 129 0600
29	IF Sound (Nicom)	29504 162 3900
30	IF Sound (Stereo)	29504 102 4000
31	Sound/Filter Board	29305 129 0100
32	ASIS Unit	29504 108 2300
33	ASIS Mains Unit	29304 050 8000
34	Dyn. Focus.	29305 025 3800
35	Mains Unit 12V	29305 007 3100
36	Mains Unit 12V	29305 007 3300
37	PALplus Board	29305 014 4700
38	LED Board	29305 017 6000
39	Dyn. Focus.	29305 025 4000
40	Motor Control Board	29305 150 2100
41	AC3-Out Board	29305 160 6400
42	Aux Board 12V	29305 160 6100
43	RS 232 Adapter Board	29305 160 6200
44	Adapter Board	29305 129 1200
45	Rotation Board	29305 129 1800
46	Mains Unit Standby	29304 050 8500

**Retrofitable Modules**

01	AF Module DPL 2	G.AD 8900
02	PIP Module PIP 1	G.AC 4300
03	PIP Module PIP 2	G.AD 2300
04	PIP Module PIP 3	G.AD 5400
05	PIP Module PIP 4	G.AD 9000
06	PIP Module PIP 5	G.AE 2000
07	PIP Module PIP 6	G.AE 7300
08	SAT Module SER 150 ET	G.AD 2500
09	SAT Module SER 2000	G.AE 0600
10	SAT Module SER 250	G.AE 0700
11	SAT Module SER 300	G.AE 3700
12	SAT Module SNR 105	G.AD 9551
13	VGA Module VGA 1	G.AC 4200
14	VGA Module VGA 2	G.AD 4200
15	VGA Module VGA 3	G.AF 4900
16	ASIS Unit	29504 108 2300
17	ASIS Mains Unit	29304 050 8000
18	SAT Module SER 2001	G.AF 8300
19	PIP Module PIP 3a	G.AF 6500
20	GDV Module 1	G.AF 1400
21	SNR DTR 2000 S	G.AF 1251
22	SAT Module SER 251	G.AF 9100

**Remote Controls**

01	TP 712	29642 063 0100
02	TP 715	29642 062 1102
03	TP 715	29642 062 4600
04	TP 715	29642 062 4700
05	TP 715	29642 062 4800
06	TP 750 C	29642 062 1800
07	TP 750 C	29642 062 1900
08	TP 750 C	29642 062 5100
09	TP 750 C	29642 062 5200
10	TP 750 C	29642 062 5300
11	TP 800	29642 061 0104
12	TP 810 C	29642 061 1001
13	TP 815 C	29642 061 1400
14	TP 850 C	29642 061 0901
15	TP 900	29642 061 1103
16	TP 910 C	29642 061 1201
17	TP 711	29642 062 0100
18	TP 713	29642 063 0400
19	TP 720	29622 059 0600
20	TP 760	29622 059 0100
21	TP 770	29642 059 0300
22	TP 771	29642 059 5100
23	TP 800 Hotel	29642 061 0800
24	TP 715 Hotel	29642 062 1600
25	Personal Remote 10	29642 061 1501



Sets Chart (Coding of the the Modules on pages 13/14)

Set	CUC																				
	1930	2059D	2059D	1930	1930	2059D	2059D	1931	2058D	2058D	1931	1931	1983	2058D	2058D	1826	1830	1832	1832	1832	
Tuning Module																					
Tuning Module																					
Control Unit																			17	17	17
CRT Panel	42	43	43	44	44	43	43	48	43	43	48	42	34	43	43	30	36	44	44	44	
Socket Board	13		14	13	13		14	13		14	13	13	12		14		07				
EPG Board	01			01	01			01			01	01						01	01	01*	
Colour Synchro																					
Feature Box	12			13	11			15			16	10	05/09*			04	08	13	13	13	
Keyboard	10	12	12	10	10	12	12	10	12	12	10	10	11	12	12						
Mains Switch Board	14	09	09	14	07	09	09	14	09	09	14	07	08	09	09			10	10	15	
AF Module	31	22	23	31	25	22	23	31	22	23	31	25	19	22	23			24	24	32	
East/West																					
PIP Module													07/08				04	09	09	09	
Processor Board	11	06	06	11	09	06	06	11	06	06	11	08		06	06			10	10	10	
Processor Board	18*			18*				18*			18*									20*	
SAT Module																					
Signal Module	10			10	10			13			13	10	05*			01	01	08	08	14	
Signal Module													07*					11	09	11	
Tuner	06	06	06	06	06	06	06	06	06	06	06	06	03	06	06	03	03	06	06	06	
Tuner													06					17	16	17	
VGA Module					03							03	01								
Video Module																					
IF Module																					
Different Modules	07	16	16		09	24	24	07	16	16	07	07	04	24	24			22	22	46	
Different Modules	25	24	24		22	28	28	45	24	24	09	09	02	28	28						
Different Modules	22	28	28	22		16	16	22	28	28	22	17	05	16	16						
Different Modules								44			44	22	23								
Different Modules	09			09				09			09	25									
Different Modules																					
Different Modules																					
Different Modules																					
Remote Control	14	13	13	14	14	13	13	14	13	13	14	14	14	13	13	15	15	16	16	16	
Remote Control																					
retrofitable	06			06	06			06			06	06	08					07	07	07	
retrofitable	07			07	07			07			07	07						15	15		
retrofitable	11			11	11			11			11	11						11	11	15	
retrofitable																				11	
MI	00	99	99	00	99	00	00	00	99	99	00	99	99	00	00	97	98	00	00	00	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



Set	CUC																	
	1832	1832	1832	1832	1826	1828	1828	1930	1822	1826	1826	1825	1825	6360	1806	2021	2021N	2021F
	Basic 3	Basic 3	Basic 3	Basic 3	Basic+	Basic++	Basic++	Basic 3	Digi 5	Basic+	Basic+	Basic	Basic		Basic++			
	ATLANTA SE7250 PIP DOLBY (VNM)	ATLANTA SE7250/8 DOLBY (VNG)	ATLANTA SE7250/8 DOLBY (VNM)	ATLANTA SE7250/8 DOLBY (VNX)	ATLANTA SE7289 IDTV/LOG	BERLIN SE70-100/8	BERLIN SE7027/8 PIP	BERLIN SE7050/8 PIP/DOLBY	BERLIN SE7290 IDTV/LOG	BOSTON SE7090 IDTV/LOG	BOSTON SE7090/8 IDTV/LOG	BOSTON ST270 IDTV/LOG	BOSTON ST270/8 IDTV/LOG	COPENHAGEN ST763 TOP/LOG	DAVIO 55 M55-290/8 IDTV	DAVIO 55 ST55-852 Dolby (VNM)	DAVIO 55 ST55-855 NIC/TOP (VNM)	DAVIO 55 ST55-870 FR/TOP (VNM)
Tuning Module														10*				
Tuning Module														13*				
Control Unit	17	17	17	17					08						14			
CRT Panel	46	44	46	44	30	36	36	44	13	26	26	26	26	15	36	08	38	38
Socket Board							06		09									15
EPG Board		01*		01				01/02*										
Colour Synchro														01				
Feature Box	11	13	11	13	04	08	08	13	03	04	04	04	04		08			
Keyboard								10										
Mains Switch Board	10	15	10	10				07										
AF Module	24/27*	26	26/27*	26				28	03							29	02	02
East/West									03									
PIP Module	09						04	09	05									
Processor Board	10	10	10	10				11*										
Processor Board		20*						13*										
SAT Module																		
Signal Module	08	10	10	10	01	04	04	10		01	04	01	05		04			
Signal Module	09														06°			
Tuner	06	06	06	06	03	03	03	06	02	03	03	03	03	03	03•	06	06	06
Tuner	16														06•			
VGA Module								03							02			
Video Module									02									
IF Module									03					04				
Different Modules	08	46	08	22				09	14						21			
Different Modules	22		22					22										
Different Modules																		
Different Modules																		
Different Modules																		
Different Modules																		
Different Modules																		
Remote Control	16	16	16	16	15	15	15	16	22	15	15	15	15	19	,	02*	02*	02*
Remote Control															07*	07*	07*	
retrofittable		06	06	06				07							04	18	09	09
retrofittable	07	07	07	07				11						08				
retrofittable	11	15	11	15														
retrofittable		11		11														
MI	99	00	99	00	96	97	98	99	96	97	97	96	96	96	99	00	99	00

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



Set	CUC																
	2021F	2021N	1936	1936	2030N	2050N	2035F	2035F	2050N	1984	1984	1984	1984	1931	1931	1931	2032
	DAVIO 55 ST55-880 FR/DOLBY (VNM)																
	DAVIO 55 ST55.852 Dolby (VNM)																
	DAVIO 70 M70-290 IDTV (VNM)																
	DAVIO 70 M70-290/8 IDTV (VNM)																
	DAVIO 70 ST70-8510 NIC/DOLBY (VNM)																
	DAVIO 70 ST70-853 NIC/PIP (VNM)																
	DAVIO 70 ST70-870 FR/TOP (VNM)																
	DAVIO 70 ST70-880 FR/Dolby (VNM)																
	DAVIO 70 ST79-854 PIP/Dolby (VNM)																
	DENVER SE82-100 PAL PLUS																
	DENVER SE82-100 PAL PLUS (mit dw)																
	DENVER SE8216/9 PAL PLUS																
	DENVER SE8216/9 PIP/Referenz																
	DENVER SE8250/8 PIP/DOLBY (VNG)																
	DENVER SE8250/8 PIP/DOLBY (VNM)																
	DENVER SE8250/8 PIP/DOLBY (VNX)																
	ELEGANCE 70 ST70-900 DOLBY (VNM)																
Tuning Module																	
Tuning Module																	
Control Unit			15	15	16	16	16	16	16								26
CRT Panel	38	08	36	36	41	41	41	41	41	34	29/34**	34	29	42	42	42	41
Socket Board	15									12		12					
EPG Board														01*	01/02*	01/02	
Colour Synchro																	
Feature Box			08	08						05	05	05	07	13	13	13	
Keyboard														10	10	10	
Mains Switch Board														14	07		
AF Module	30	30								20	20	20	16	28	28	28	
East/West																	
PIP Module								01					07	09	09	09	
Processor Board					18		03							11	11*	11*	
Processor Board														18*	12*	12	
SAT Module																	
Signal Module			04	04						05	05	05	05	11	09	10	
Signal Module			06°	06°										10	10	11	
Tuner	06	06	03•	03•	06	06*	06*	06	06*	03	03	03	03	06	06	06	06
Tuner			06•	06•		13*	13*		13*					17	16	17	
VGA Module										01	01	01	01		03		
Video Module																	
IF Module																	
Different Modules			21	21		11			11		02			07	07	07	
Different Modules			22											25	09	25	
Different Modules														46	22	22	
Different Modules														09	25	09	
Different Modules																	
Different Modules																	
Different Modules																	
Remote Control	02*	02*	11*	11	07	11	02	02*	12	15	15	15	15	16	16	16	06
Remote Control	07*	07*	12*					07*									
retrofitable	18	18	04	04	12		12							07	07	07	22
retrofitable			08	08		01			01						11	11	
retrofitable			14	14		10			10								
retrofitable														11			
MI	00	00	99	99	00	00	99	00	00	97	98	97	96	00	99	00	00

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																			
	1931	1931	1836	7303	2003	2020	2021	2021	6330	6330	2030N	2030	2050	2032	2032	2030N	7350	1806	1805	
	FINE ARTS VISION MFW82-710/9 DPL/PIP (VNM)																			
	FINE ARTS VISION MFW82-720/9 DVD (VNM)																			
	GREENVILLE 100 SE7030 (VNM)																			
	GREENVILLE 370 SE3781 text																			
	GREENVILLE 370 SE3781 TOP																			
	GREENVILLE 550 SE5586 TOP																			
	GREENVILLE 560 SE5587 TOP																			
	GREENVILLE 561 SE5590 Dolby (VNM)																			
	GREENVILLE 7002 text																			
	GREENVILLE 7002/8 text																			
	GREENVILLE 7003 NIC/TOP																			
	GREENVILLE 7003 text																			
	GREENVILLE 7004 NIC/TOP																			
	GREENVILLE 7005 TOP (VNM)																			
	GREENVILLE 7006 DOLBY (VNM)																			
	GREENVILLE 7006 NIC/DOLBY (VNM)																			
	LISSABON SE5576 text																			
	M55-280/8 a IDTV/LOG																			
	M55-280/8 IDTV/LOG																			
Tuning Module																				
Tuning Module																				
Control Unit	25	25																		
CRT Panel	46	46	36	09	09	08	38	08	27	27	35	35	35	41	41	41	07	36	26	
Socket Board	17/13	17/13	07											05	05	05				
EPG Board	03	03																		
Colour Synchro																				
Feature Box	14	14	08															08	04	
Keyboard			03											08	08	08				
Mains Switch Board			02											05	05	05				
AF Module	25	25				06	01	29												
East/West																				
PIP Module	09	09	03																	
Processor Board	16*	16*			14			02						02*		18				
Processor Board	17*	17*																		
SAT Module																				
Signal Module	09	09	04															04	04	
Signal Module	12	12	06°																	
Tuner	18	18	03*	06*	06*	06*	06*	06	03*	03*	15	15	06*	06*	06	06	03*	03	03	
Tuner	16	16	06*	08*	13*	08*	13*		04*	04*			08*	13*			04*			
VGA Module	03	03																		
Video Module																				
IF Module									05	12										
Different Modules	37	37	21														30			
Different Modules	22	22	22																	
Different Modules	38	38																		
Different Modules	39	39																		
Different Modules	25	25																		
Different Modules	40	40																		
Different Modules	09	09																		
Different Modules	41/42	41/43																		
Remote Control	25	25	15	02	02	02	02	02*	15	15	15	15	15	15	16	16	19	11	11	
Remote Control								06*												
retrofittable	07	07	04		09		09	18						10	10	12				
retrofittable	11	11	08																	
retrofittable	20	21	14																	
MI	00	00	99	98	99	98	99	00	96	96	97	97	98	99	00	00	96	98	97	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

	Set		CUC																				
	M61-1690 TOP/LOG	M63-280 IDTV/LOG	M63-280/8 IDTV/LOG	M63-281 IDTV/LOG	M63-281 IDTV/LOG /ab 7/98	M63-281/8 IDTV/LOG	M63-281/8 IDTV/LOG /ab 7/98	M70-1690 DPL/IDTV/LOG	M70-1690 TOP/LOG	M70-269 PALplus/LOG	M70-269/9 Referenz	M70-280 IDTV/LOG	M70-280/8 IDTV/LOG	M70-281 IDTV/LOG	M70-281 IDTV/LOG /ab 7/98	M70-281/8 IDTV/LOG	M70-281/8 IDTV/LOG /ab 7/98	M70-282 (VNM)	M70-290 IDTV	M70-290/8 IDTV	M72-100	M72-100 a	
	6369	1825	1825	1826	1836	1826	1836	1961	6369	1962	1952	1825	1825	1826	1836	1826	1836	1836	1836	1836	1826	1830	
Tuning Module	07							08	16														
Tuning Module																							
Control Unit																		23					
CRT Panel	18	26	26	26	36	26	36	12	16	29	29	26	26	26	36	26	36	36	36	36	30	36	
Socket Board								11		12													
EPG Board																							
Colour Synchro	07								07														
Feature Box		04	04	04	08	04	08	02		05	07	04	04	04	08	04	08	08	08	08	04	08	
Keyboard																							
Mains Switch Board																							
AF Module								12		15	16												
East/West								01															
PIP Module		01	04																				
Processor Board																							
Processor Board																							
SAT Module																							
Signal Module				01	01	04	04			05	05	01	04	01	01	04	04	01*	01	04	01	01	
Signal Module																		03*					
Tuner	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03•/04•	03	03	03	03	
Tuner																		06•					
VGA Module										01													
Video Module								04															
IF Module	13							09	11														
Different Modules	15							14	14									21*					
Different Modules																		22*					
Different Modules																							
Different Modules																							
Different Modules																							
Different Modules																							
Different Modules																							
Remote Control	20	11	11	11	11	11	11	21	20	11	11	11	11	11	11	11	11	12	11	11	11	11	
Remote Control																							
retrofitable																			14				
retrofitable																			19				
retrofitable																			08				
MI	96	96	96	97	98	97	98	96	96	96	96	96	96	97	98	97	98	00	98	98	97	98	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



Set	CUC																				
	1826	1830	1830	1826	1852	1852	1842	1842	1842	1830	1981	6368	1983	1984	1829	1827	1929	1894	1894	1894	2051N
	Basic+	Basic++	Basic++	Basic+	Digi 5	Digi 5	Digi 6	Digi 6	Digi 6	Basic++	Digi 4		Digi 6	Digi 6	Basic++	Basic+	Basic++	Digi 6	Digi 6	Digi 6	
M72-100/8																					
M72-100/8 a																					
M72-109 (VNM)																					
M72-270 IDTV/LOG Elegance																					
M72-315 IDTV/Referenz																					
M72-315/9 IDTV/PIP/Referenz																					
M72-410 Reference																					
M72-410 Reference/PIP																					
M72-410/9 Reference																					
M72-798 IDTV																					
M82-169 a PALplus																					
M82-1690/9 TOP/LOG																					
M82-269 PALplus/LOG																					
M82-269/9 Reference																					
M84-210/8 a IDTV/LOG																					
M84-210/8 IDTV/LOG																					
M84-211/8 IDTV (VNM)																					
M95-410/9 Reference/PIP																					
M95-410/90 Reference/PIP																					
M95-411/9 Reference/PIP																					
MELBOURNE SE7210 a NIC/TOP																					
Tuning Module												07									
Tuning Module																					
Control Unit					06	06					07						13				
CRT Panel	30	36	36	30	13	13	29	29	29	36	19	17	29	29	36	30	36	29	29	29	40
Socket Board			06		09	09	12	12	12	06	01		12	12				12			08
EPG Board																					
Colour Synchro												07									
Feature Box	04	08	08	04	03	03	07	07	07	08	06		05	07	08	04	08	07	07	07	
Keyboard			05							05											
Mains Switch Board			03							03											
AF Module					05	05	21	21	21		14		15	16				20	16	20	
East/West					03	03															
PIP Module						05		07										06		07	
Processor Board																					
Processor Board																					
SAT Module																					
Signal Module	04	04	01*	01			02	02	05	01			05	05	04	04	04	05	05	05	
Signal Module			03*							03°							06°				
Tuner	03	03	03•/04•	03	02	02	03	03	03	03•	01	03	03	03	03	03	03•	03	03	03	06*
Tuner			06•							06•							06•				08*
VGA Module								01	01					01	01						
Video Module					02	02					01										
IF Module					03	09					08	11									
Different Modules			21*		14	14				21*	13	15					21				
Different Modules			22*							22*											
Different Modules																					
Different Modules																					
Different Modules																					
Different Modules																					
Different Modules																					
Remote Control	11	11	12	11	22	22	11	11	11	11	20	20	11	11	11	11	11	11	11	11	15
Remote Control																					
retrofittable			14							04							04				
retrofittable			19							08							08				
retrofittable			08							14							14				
MI	97	98	00	97	96	96	97	97	97	99	96	96	96	96	98	96	99	97	96	98	98

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																			
	2031N	2031	2033	7303	1828	1952	1952	2059N	2059N	2059F	2059N	2059N	2059N	2059	2059F	2059N	2059N	2059N	2059N	
MELBOURNE SE7210 NIC/TOP																				
MELBOURNE SE7210 TOP																				
MELBOURNE SE7212 TOP (VNM)																				
MIAMI SE3780 text																				
MW70-100/8																				
MW70-269 PAL PLUS																				
MW70-269 PAL PLUS (mit dw)																				
MW70-2690 NIC/TOP																				
MW70-2699 DPL/FT (VNM)																				
MW70-2699 FR/TOP (VNM)																				
MW70-2699 NIC/FT (VNM)																				
MW70-2699 NIC/TOP (VNA)																				
MW70-2699 NIC/TOP (VNM)																				
MW70-2700 Dolby (VNM)																				
MW70-2700 FR/Dolby (VNM)																				
MW70-2701 DOLBY/FT (VNM)																				
MW70-3699 DOLBY/FT (VNM)																				
MW70-3699 NIC/FT (VNM)																				
MW70-3700 DPL/FT (VNM)																				
Tuning Module																				
Tuning Module																				
Control Unit																				
CRT Panel	37	37	40	20	36	33	33	40	43	43	43	45	43	43	45	43	45	43	43	43
Socket Board			05			12			04	04	04	04	04	04	04	04	04	04	04	16/04
EPG Board																				
Colour Synchro																				
Feature Box					08	05	05											06		06
Keyboard			08						07	07	06	06	07	07	07	06	06			
Mains Switch Board			05						04	04	04	04	04	04	04	04	04	04	04	04
AF Module						20	20													18
East/West																				
PIP Module																				
Processor Board			02*						01*	05			01*							
Processor Board									04*				04*							
SAT Module																				
Signal Module					04	02	02													
Signal Module																				
Tuner	14	14*	06*	07*	03	03	03	06*	06*	06*	06*	06*	06*	06*	06*	06	06	06*	06*	
Tuner		13*	13*	10*				08*	13*	13*	13*	13*	13*	13*	13*		13*	13*	13*	
VGA Module																				
Video Module																				
IF Module																				
Different Modules			03				02		11	11	11	10	11	11	24	11	10	11	11	
Different Modules			26						24	24	24	24	24	24	10			24	24	
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Remote Control	15	15	15	02	11	11	11	11	11	11	12	12	11	12	12	12	12	12	12	12
Remote Control																				
retrofitable			10						01	01	05	05	01	05	10	01	01	01	01	05
retrofitable									05	05	01	01	05	01	15	05	05	05	05	10
retrofitable									12	12	10	10	12	10	01	22	22	10		
MI	97	97	99	98	97	97	98	98	99	99	00	00	99	00	00	00	00	00	00	00

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



AL

Set	CUC																		
	1984	1984	1984	1984	2058N	2059F	2058N	2058N	2058N	2058	2058F	2058N	2058N	2058N	2058N	1836	1929	7301	
MW82-100/9	Digi 6																		
MW82-100/9 (mit dw)	Digi 6																		
MW82-100/9 PAL PLUS	Digi 6																		
MW82-100/9 PAL PLUS (mit dw)	Digi 6																		
MW82-2699 DPL/FT (VNIM)																			
MW82-2699 FR/TOP (VNIM)																			
MW82-2699 NIC/FT (VNIM)																			
MW82-2699 NIC/TOP (VNA)																			
MW82-2699 NIC/TOP (VNIM)																			
MW82-2700 Dolby (VNIM)																			
MW82-2700 FR/Dolby (VNIM)																			
MW82-2701 DOLBY/FT (VNIM)																			
MW82-3699 DOLBY/FT (VNIM)																			
MW82-3699 NIC/FT (VNIM)																			
MW82-3700 DPL/FT (VNIM)																			
MW82-40/8 (VNIM)	Basic++																		
MW82-50/8	Basic++																		
P37-065/5																			
Tuning Module																			
Tuning Module																			
Control Unit																20			
CRT Panel	34	34	34	29/34**	43	43	43	45	43	43	45	43	45	43	43	39	39	04	
Socket Board	12	03	12	03	04	04	04	04	04	04	04	04	04	04	16/04		06		
EPG Board																			
Colour Synchro																			
Feature Box	07	07	05	05										06	06	08	08		
Keyboard					07	07	06	06	07	07	07	07	06			04			
Mains Switch Board					04	04	04	04	04	04	04	04	04	04	04				
AF Module	20	20	19	19											18				
East/West																			
PIP Module			07	07															
Processor Board					01*	05			01*										
Processor Board					04*				04*										
SAT Module																			
Signal Module	05	05	05	05												04	04		
Signal Module																06°			
Tuner	03	03	03	03	06*	06*	06*	06*	06*	06*	06*	06	06	06*	06*	04	03	03*	
Tuner					13*	13*	13*	13*	13*	13*	13*		13*	13*	13*	03/06•		04*	
VGA Module	01	01	01	01															
Video Module																			
IF Module																			
Different Modules		02		02	11	11	11	10	11	11	24	11	10	11	11	12			
Different Modules					24	24	24	24	24	24	10	24		24	24	06			
Different Modules																21*			
Different Modules																22*			
Different Modules																			
Different Modules																			
Different Modules																			
Remote Control	11	11	11	11	11	11	12	12	11	12	12	12	12	12	12	12	11	17	
Remote Control																			
retrofitable					01	01	05	05	01	05	10	01	01	01	05	04			
retrofitable					05	05	01	01	05	01	15	05	05	05	10	08			
retrofitable					12	12	10	10	12	10	01	22	22	10	14				
retrofitable																			
MI	97	98	97	98	99	99	00	00	99	00	00	00	00	00	00	99	98	96	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000





Set	CUC															
	7303	7303	7303	7303	7303	7303	7303	7303GB	7303	7303	7303	7303	7303	7303	7303	7303
Tuning Module																
Tuning Module																
Control Unit																
CRT Panel	04	20	20	20	20	20	20	20	20	20	20	20	20	04	04	04
Socket Board																
EPG Board																
Colour Synchro																
Feature Box																
Keyboard																
Mains Switch Board																
AF Module																
East/West																
PIP Module																
Processor Board																15
Processor Board																
SAT Module																
Signal Module																
Signal Module																
Tuner	12	07*	06	19	06	12*	19	20	06	07*	06	06	06	12	12	12
Tuner		10*				15*		21*		10*						
VGA Module																
Video Module																
IF Module																
Different Modules																31
Different Modules																
Different Modules																
Different Modules																
Different Modules																
Different Modules																
Different Modules																
Remote Control	17	02	07	07	02*	02	07	07	02*	17	02*	07	02*	17	17	17
Remote Control				02*	07		02*	02*	07*		07*	02*	07*			
retrofitable																24
retrofitable																02
retrofitable																16
retrofitable																17
MI	96	98	00	00	00	99	00	00	00	98	00	00	00	96	96	97
																99
																98

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																		
	7303	7303	7303	7303	7303	7305	7305	7303	7303	7303	7303	7303	7303	2005	7303	7303F	7303F	7303F	
Tuning Module																			
Tuning Module																			
Control Unit																			
CRT Panel	20	20	20	20	20	20	20	20	20	20	20	20	20	09	20	20	04	20	
Socket Board																			
EPG Board																			
Colour Synchro																			
Feature Box																			
Keyboard																			
Mains Switch Board																			
AF Module																			
East/West																			
PIP Module																			
Processor Board														07					
Processor Board																			
SAT Module														03					
Signal Module																			
Signal Module																			
Tuner	06	19	06	06	12*	07*	06	07*	06	06	12*	06	12*	06*	07*	06	07*	07*	
Tuner					15*	10*		10*			15*		15*	13*	10*		10*	10*	
VGA Module																			
Video Module																			
IF Module																			
Different Modules							35							20					
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Remote Control	02*/07	07	07	06	02	02	07	02	02*	02*	02	02*	02	02	02	02	17	02	
Remote Control	08/09/10	02*							07*	07		07							
retrofittable																			
retrofittable																			
retrofittable																			
MI	00	00	00	00	99	98	00	98	00	00	99	00	99	99	98	00	98	98	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																				
	7303F	7303	7303	7303F	7303F	7303F	7303	7303	2003H	7303	7303	7303	7300F	7300F	7303F	6360	1825	2033N	2021	2020	
Tuning Module																05					
Tuning Module																					
Control Unit																					
CRT Panel	20	20	20	20	20	20	21	05	47	21	21	21	05	21	21	15	26	40	08	08	
Socket Board																		04			
EPG Board																					
Colour Synchro															02						
Feature Box																	04				
Keyboard																		06			
Mains Switch Board																		04			
AF Module																			01	08	
East/West																					
PIP Module																					
Processor Board									15									19			
Processor Board																					
SAT Module																					
Signal Module																01					
Signal Module																					
Tuner	06	19	06	06	06	06	06	12	06*	07*	06	07*	07*	07*	06			06	06	08*	
Tuner									13*	10*		10*	10*	10*							09*
VGA Module																					
Video Module																					
IF Module																04					
Different Modules									31										03		
Different Modules									32										26		
Different Modules									33												
Different Modules																					
Different Modules																					
Different Modules																					
Different Modules																					
Remote Control	02	07	02*	02*	02*	02*	04*	17	23	02	02	02	17	02	02	19	15	12	02*	02	
Remote Control		02*	07*	10*	08*	09*	09*												07*		
retrofittable																		22	09		
retrofittable						03															
retrofittable																					
MI	99	00	00	00	00	00	99	96	99	98	99	98	98	98	99	96	96	00	00	98	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



Set	CUC																			
	2021N	2021N	2021N	7350	7350	2020	2020	2020N	7350	7350	7350	2021N	2021	2021	2021N	2021N	2020F	2020N	2020	
Tuning Module																				
Tuning Module																				
Control Unit																				
CRT Panel	38	38	08	07	07	08	08	08	07	07	07	08	08	08	08	08	08	08	08	
Socket Board																				
EPG Board																				
Colour Synchro																				
Feature Box																				
Keyboard																				
Mains Switch Board																				
AF Module	02	02	30			06	06	08				02	01	01	02	30	07	08	06	
East/West																				
PIP Module																				
Processor Board													02	02						
Processor Board																				
SAT Module																				
Signal Module																				
Signal Module																				
Tuner	06	06	06	03*	04	12*	08*	08*	04	04	03*	06	06*	06*	06	06	08*	08*	08*	
Tuner				04*		15*	09*	09*			04*		13*	13*			09*	09*	09*	
VGA Module																				
Video Module																				
IF Module																				
Different Modules				29	30				30	11	11									
Different Modules										29	29									
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Remote Control	02*	02*	02*	01	01	02	02	02	01	01	01	02*	02	02	02*	02*	02	02	02	
Remote Control	06*	06*	06*									06*			06*	06*				
retrofitable	09	09	18									09	09	09	09	18				
retrofitable																				
retrofitable																				
MI	99	99	00	98	99	97	98	98	97	97	98	99	99	99	99	00	98	98	98	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																					
	2021	7350	2021	2021	2020F	2021F	7350	1822	1825	1825	1836	2030N	2030F	2030N	2030	2030N	2030N	2032	2035F	2030N		
Tuning Module								15														
Tuning Module																						
Control Unit												09				09	09	09	09	09	09	35
CRT Panel	08	07	08	08	08	38	07	14	26	26	36	41	35	35	35	41	41	41	41	41	41	35
Socket Board						15		10														
EPG Board																						
Colour Synchro																						
Feature Box								01	04	04	08											
Keyboard																						
Mains Switch Board																						
AF Module	01		29	01	07	02		04														
East/West								02														
PIP Module									01	04												
Processor Board	02											02*				03*	03*	02*	03			
Processor Board																						
SAT Module																						
Signal Module												04										
Signal Module																						
Tuner	06*	03*	06	06*	08*	06	03*		03	03	03	06*	14	12*	12*	06*	06*	06*	06*	06*	07*	
Tuner	13*	04*		13*	09*		04*					13*		15*	15*	13*	13*	13*	13*	13*	10*	
VGA Module																						
Video Module								03														
IF Module		13						03														
Different Modules		29					30															
Different Modules																						
Different Modules																						
Different Modules																						
Different Modules																						
Different Modules																						
Different Modules																						
Remote Control	02	19	07	02	02	02*	01	20	22	22	11	02	02*	02*	02*	02	02	02	02	02	02	02
Remote Control						07*							18*	18*	18*							
retrofittable	09		18	09		09						12				12	12	10	12			
retrofittable																						
retrofittable																						
MI	99	96	00	99	98	00	96	96	96	96	98	99	97	97	97	99	99	99	99	99	99	98

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																		
	2030N	2030N	2030N	6330	6330	2030N	2030	2030N	2032	6360	6360	1836	1836	1836	1825	1825	1836	1825	
Tuning Module										02*	02*								
Tuning Module										14*	14*								
Control Unit			11					10	10				04	04					
CRT Panel	41	35	41	27	27	35	35	41	41	15	15	36	36	36	26	26	36	26	26
Socket Board																			
EPG Board																			
Colour Synchro										03	04								
Feature Box												08	08	08	04	04	08	04	04
Keyboard	01																01		
Mains Switch Board	06																01		
AF Module																			
East/West																			
PIP Module															01	04			
Processor Board	03*		03*						02*	02*									
Processor Board																			
SAT Module																			
Signal Module												01	04	04			04	01	01
Signal Module												06°	06°				06°		
Tuner	06*	07*	06*	03*	03*	12*	07*	06*	06*	03	03	03	03•	04	03	03	04	03	03
Tuner	13*	10*	13*	04*	04*	15*	10*	13*	13*				06•	03/06•			03/06•		
VGA Module																			
Video Module																			
IF Module				14	14					05	13								
Different Modules													21	21					21*
Different Modules																			22*
Different Modules																			19
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Remote Control	02	02	02	17	01	02	02*	02	02	19	19	11	11	12	22	22	12	11	11
Remote Control							18*												
retrofitable	12		12					12	10				04	04			04		
retrofitable													08	08			08		
retrofitable													14	14			14		
retrofitable																			
MI	99	98	99	96	96	97	98	99	99	96	96	98	99	99	96	96	99	97	97

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC															
	1836	1825	1836	1836	1836	1836	2030	2030N	2030N	2040N	2030F	2030N	2030	2030N	2030N	2030N
	Basic++	Basic	Basic++	Basic++	Basic++	Basic++										
	ST70-270 IDTV /ab 8/98	ST70-270/8 IDTV	ST70-270/8 IDTV /ab 9/98	ST70-278 IDTV /ab 8/98	ST70-282/8 (VNM)	ST70-298 IDTV (VNM)	ST70-600 text	ST70-602 NIC/TOP (VNM)	ST70-700 A NIC/FT (VNM)	ST70-700 DPL/NIC/FT	ST70-700 FR/TOP	ST70-700 NIC/TOP	ST70-700 text	ST70-701 NIC/TOP (VNM)	ST70-7010 NIC/DOLBY (VNM)	ST70-702 NIC/TOP (VNM)
Tuning Module																
Tuning Module																
Control Unit					23	24			09					09	09	09
CRT Panel	36	26	36	36	06	36	35	41	41	35	35	35	35	41	41	41
Socket Board																
EPG Board																
Colour Synchro																
Feature Box	08	04	08	08	08	08										
Keyboard								01								
Mains Switch Board								06								
AF Module										17						
East/West																
PIP Module																
Processor Board									02*					03*	18	02*
Processor Board																02*
SAT Module																
Signal Module	01	04	04	01	04*	01*										
Signal Module					06*	03*										
Tuner	03	03	03	03	03*/04*	03*/04*	07*	06*	06*	13*	08*	07*	07*	06*	06	06*
Tuner					06*	06*	10*	13*	13*	14*	09*	10*	10*	13*	13*	13*
VGA Module																
Video Module																
IF Module																
Different Modules					21*	21*										
Different Modules					22*	22*										
Different Modules					19											
Different Modules																
Different Modules																
Different Modules																
Different Modules																
Remote Control	11	11	11	11	12	12	02	02	02	02	02*	02*	02*	02	06	02
Remote Control											18*	18*	18*			
retrofitable					14	14			12					12	12	12
retrofitable					19	19										10
retrofitable					08	08										
MI	98	97	98	98	00	00	98	99	99	97	98	98	98	99	00	99

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



Set	CUC																			
	2030N	2035F	2035F	2030N	6330	6360	2030N	2030N	2030N	2030N	2030N	2030N	2030N	6330	6330	6330	2030N	6460	6361	6330
						02*												06	02*	
						14*													14*	
Tuning Module	09	09	09					09		11	11						11			
Tuning Module	41	41	41	35	15	15	41	41	35	41	41	35	27	27	27	41	15	23	27	
Control Unit																				
CRT Panel																				
Socket Board																				
EPG Board																				
Colour Synchro						04											04	03		
Feature Box																				
Keyboard							01													
Mains Switch Board							06													
AF Module																	13			
East/West																				
PIP Module																				
Processor Board			03				03*			03*	03*						02*			
Processor Board																				
SAT Module																				
Signal Module																				
Signal Module																				
Tuner	06*	06*	06*	07*	03*	03	06*	06*	07*	06*	06*	07*	03*	03*	03*	06*	03	03	03*	
Tuner	13*	13*	13*	10*	04*		13*	13*	10*	13*	13*	10*	04*	04*	04*	13*			04*	
VGA Module																				
Video Module																				
IF Module					14	11							12	12	05		11	04	05	
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Remote Control	02	02	02	02	01	19	02	02*	02	02	02	02	01	01	01	02	19	19	01	
Remote Control								06*												
retrofitable		12	12				12	12		12	12					12				
retrofitable																				
retrofitable																				
MI	00	99	99	98	96	96	99	00	98	99	99	98	96	96	96	99	96	96	96	97

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000





Set	CUC																		
	6330	2030F	2030N	2030	2030N	2032	2030	2032	2030N	2032	2030	6360	6360	2035F	2050N	2050N	2032	2032	
Tuning Module												02*	02*						
Tuning Module												14*	14*						
Control Unit					10	10		10	10	09				21			11	21	
CRT Panel	27	35	35	35	41	41	35	41	41	41	35	15	15	41	35	35	41	41	
Socket Board																			
EPG Board																			
Colour Synchro												03	04						
Feature Box																			
Keyboard																			
Mains Switch Board																			
AF Module															18				
East/West																			
PIP Module																			
Processor Board					02*	02*											02*		
Processor Board																			
SAT Module																			
Signal Module																			
Signal Module																			
Tuner	03*	14	15	15	06*	06*	07*	06*	06	06*	07*	03	03	06	06*	06*	06*	06	
Tuner	04*				13*	13*	10*	13*		13*	10*				08*	08*	13*		
VGA Module																			
Video Module																			
IF Module	05											04	11						
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Remote Control	01	02*	02	02	02	02	02	02	06	02	02	19	19	02*	11	11	02	02*	
Remote Control		18*												06/07*				06*	
retrofittable					12	10		10	12	10							10	10	
retrofittable																			
retrofittable																			
MI	97	97	97	97	99	99	98	99	00	99	98	96	96	00	98	98	99	00	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC															
	2030N	2050N	2050N	2030F	1836	1825	2030N	1825	1826	1826	1826	2033	2051N	6331	6331	2031F
Tuning Module																
Tuning Module																
Control Unit	21	11			13		21									
CRT Panel	41	41	35	35	36	26	41	26	30	30/32**	30/32**	40	40	31	31	37
Socket Board												04				
EPG Board																
Colour Synchro																
Feature Box					08	04		04	04	04	04					
Keyboard												06				
Mains Switch Board												04				
AF Module																
East/West																
PIP Module			01										02			
Processor Board												02*				
Processor Board																
SAT Module																
Signal Module					04	04		01	01	01	04					
Signal Module					06°											
Tuner	06	06	06*	06*	04	03	06	03	03	03	03	06*	06*	03*	03*	14
Tuner			08*	08*	03/06•							13*	08*	04*	04*	
VGA Module																
Video Module																
IF Module														05	12	
Different Modules		11			21*							03				
Different Modules					22*							26				
Different Modules																
Different Modules																
Different Modules																
Different Modules																
Different Modules																
Remote Control	06	12	11	02	11	11	06	22	11	11	11	11	11	19	19	02*
Remote Control																11*
retrofitable		05			04			12				10				
retrofitable		01			08											
retrofitable		10			14											
retrofitable																
MI	00	00	98	98	99	96	00	97	98	96	96	99	98	96	96	97

\* optional \*\* dependent on CRT panel • dependent on signal module ° optional if software version  $\geq 19798\ 318\ 1000$

Set	CUC																				
	2031N	2031	2033	2033	2033F	2031N	2031F	2080N	2080F	2080N	2080N	2080	2080F	1826	1836	1836	1826	1836	1832	1832	
Tuning Module																					
Tuning Module																					
Control Unit								12				12	12	12						17	17
CRT Panel	37	37	40	40	40	37	40	45	43	43	45	43	45	26	36	36	26	36	44	44	
Socket Board			04	04			04									07		07			
EPG Board																			01	01*	
Colour Synchro																					
Feature Box														04	08	08	04	08	13	13	
Keyboard			06	06	07		06				09	09	09								
Mains Switch Board			04	04	04		04												13	15	
AF Module																			24	32	
East/West																					
PIP Module																04					
Processor Board			02*					18											10	10	
Processor Board																				20*	
SAT Module																					
Signal Module														01	01	01	04	04	08	14	
Signal Module		13*																			
Tuner	14	14*	06*	06	06	14	06*	06	06*	06*	06*	06	06	03	03	03	03	03	06	06	
Tuner			13*				13*		08*	08*	13*										
VGA Module																					
Video Module																					
IF Module																					
Different Modules			03	03	03		03	10			10	11							22	46	
Different Modules			26	26	26		26						10								
Different Modules																					
Different Modules																					
Different Modules																					
Different Modules																					
Different Modules																					
Remote Control	11	11	11	12	12	11	11	12	11	11	12	12	12	15	15	15	15	15	16	16	
Remote Control																					
retrofitable			10	10	10		12	01			05	05	10						15	06	
retrofitable								05			01	01	15						06	07	
retrofitable								22			10	10	01						07	15	
retrofitable																			11	11	
MI	97	97	99	00	00	97	99	00	98	98	00	00	00	97	98	98	97	98	00	00	

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



Set	CUC																			
	Basic 3	Basic 3	Basic 3	Basic 3	Basic 3															
	1832	1832	1832	1832	1832	6331	7301	7303	7303	7303	7303	7303	7303	7303	7303	7303	7303	7303	7303	
Tuning Module																				
Tuning Module																				
Control Unit	17	17	17	17	17															
CRT Panel	46	44	44	46	44	31	05	06	22	22	22	22	22	22	22	22	22	06	22	
Socket Board																				
EPG Board		01	01	01	01*															
Colour Synchro																				
Feature Box	11		13	11/13	13															
Keyboard		13																		
Mains Switch Board	10	10	10	10	15															
AF Module	24/27*	24	26	24/27	26															
East/West																				
PIP Module																				
Processor Board	10	10	10	10	10															
Processor Board					20*															
SAT Module																				
Signal Module	08	08	10	10	10															
Signal Module																				
Tuner	06	06	06	06	06	03*	03*	12	06	06	12*	07*	06	06	07*	06	12	06		
Tuner						04*	04*				15*	10*			10*					
VGA Module																				
Video Module																				
IF Module						12														
Different Modules	08	22	22	34	46															
Different Modules	22			22																
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Different Modules																				
Remote Control	16	16	16	16	16	15	17	17	02	02	02	17	02	02*	02*	02	17	02		
Remote Control														07*	17*					
retrofitable	06	06	06	06	06															
retrofitable	07	07	07	07	07															
retrofitable	11	15	15	15	15															
retrofitable		11	11	11	11															
MI	99	00	00	00	00	96	96	97	99	99	99	98	99	00	98	99	96	99		

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																		
	7303	7303	7303	7303	2003H	7303	7303	7305	7303	7303F	7303	7303	7303	7303	7303	7303	7303	7303	
Tuning Module																			
Tuning Module																			
Control Unit																			
CRT Panel	22	22	22	06	08	22	22	22	22	06	35	35	22	22	22	35	06	06	22
Socket Board																			
EPG Board																			
Colour Synchro																			
Feature Box																			
Keyboard																			
Mains Switch Board																			
AF Module																			
East/West																			
PIP Module																			
Processor Board					15														
Processor Board																			
SAT Module																			
Signal Module																			
Signal Module																			
Tuner	06	12*	06	12	06*	06	06	06	06	07*	07*	07*	06	06	06	07*	12	12	06
Tuner		15*			13*					10*	10*	10*				10*			
VGA Module																			
Video Module																			
IF Module																			
Different Modules					31			36											
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Different Modules																			
Remote Control	02	02	02	17	24	02*	02*	02*	02*	17	17	17	02	02*	02*	02*	17	17	06
Remote Control						07*	06*	07*	06*					07*	07*	17*			
retrofittable					16														
retrofittable					17														
retrofittable																			
MI	99	99	99	96	99	00	00	00	00	98	98	98	99	00	00	98	96	96	00

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000



Set	CUC																	
	7303	7303	2003H	2003H	7303	7303	7303	7303	7303	7303	7303	7303	7303	7303	2003	2003	7303F	
T55-830 FT/GB (VNA)																		
T55-830 FT/IR (VNA)																		
T55-830 Multi MegASIS (VNM)																		
T55-830 Multi/ICN (VNM)																		
T55-830 text																		
T55-830 text (VNA)																		
T55-830 text/TR (VNA)																		
T55-830 text/TR (VNM)																		
T55-830/4 text																		
T55-830/4 text (VNA)																		
T55-837 TEXT (VNA)																		
T55-837 text (VNA)																		
T55-837 text (VNM)																		
T55-838 text (VNA)																		
T55-838 text (VNM)																		
T55-840 TOP/SAT																		
T55-840 TOP/SAT (VNM)																		
T55-842 FR																		
Tuning Module																		
Tuning Module																		
Control Unit																		
CRT Panel	22	22	08	08	22	22	22	22	22	22	22	22	22	22	22	08	22	
Socket Board																		
EPG Board																		
Colour Synchro																		
Feature Box																		
Keyboard																		
Mains Switch Board																		
AF Module																		
East/West																		
PIP Module																		
Processor Board			15	15													07	
Processor Board																		
SAT Module																	03	
Signal Module																		
Signal Module																		
Tuner	19	06	06*	06*	07*	06	06	12*	07*	06	06	06	12*	06	12*	06*	06*	07*
Tuner			13*	13*	10*			15*	10*				15*		15*	08*	13*	10*
VGA Module																		
Video Module																		
IF Module																		
Different Modules			31	31														
Different Modules			32															
Different Modules			33															
Different Modules																		
Different Modules																		
Different Modules																		
Different Modules																		
Remote Control	7/06	02*	23	24	02	02	02	02	02	02	02	07	02*	02	02*	02	02	02
Remote Control	02*	06*										02*	07		07			
retrofitable				16														
retrofitable				17														
retrofitable																		
retrofitable																		
MI	00	00	99	99	98	99	99	99	99	98	99	00	00	99	00	99	98	99

\* optional \*\* dependent on CRT panel • dependent on signal module °optional if software version ≥19798 318 1000

Set	CUC																	
	7301F	7303F	7303F	7303F	7303F	7303	7303	6310F	1830	1830	1952	1952	1826	1836	2021	2021F	2021N	
Tuning Module																		
Tuning Module																		
Control Unit																		
CRT Panel	06	22	35	22	22	22	22	27	36	36	29	33	26	36	08	38	08	
Socket Board									07	07		12				15		
EPG Board																		
Colour Synchro																		
Feature Box									08	08	07	05	04	08				
Keyboard									03	03								
Mains Switch Board									11	11								
AF Module											16	20			29	30	30	
East/West																		
PIP Module											06							
Processor Board																		
Processor Board																		
SAT Module																		
Signal Module									01*	04*	05	02	01	01				
Signal Module									03*	06*								
Tuner	03*	06	07*	07*	06	19	06	04	03•/04•	03•/04•	03	03	03	03	06	06	06	
Tuner	04*		10*	10*					06•	06•								
VGA Module																		
Video Module																		
IF Module								06										
Different Modules									21*	21*								
Different Modules									22*	22*								
Different Modules																		
Different Modules																		
Different Modules																		
Different Modules																		
Different Modules																		
Remote Control	17	02	17	02	02	7/06	02*	19	16	16	15	15	15	15	07	02*	07	
Remote Control						02*	06*									07*		
retrofittable									14	14					18	18	18	
retrofittable									19	19								
retrofittable									08	08								
retrofittable																		
MI	96	00	98	98	99	00	00	96	00	00	96	97	97	98	00	00	00	

\* optional \*\* dependent on CRT panel • dependent on signal module ° optional if software version ≥ 19798 318 1000



Set	CUC		Components														
	1836	2030N	1930	1832	1832	1832	1832	1832	1832	1832	1832	1832	1832	1931	6330	6330	
XENTIA 63 M63-400/8 (VNIM)	Basic++																
XENTIA 63 ST63-400/4 Dolby (VNMI)																	
XENTIA 70 FLAT MFW82-490/9 DOLBY (VNMI)	Basic 3																
XENTIA 72 FLAT MF72-490 DOLBY (VNA)	Basic 3																
XENTIA 72 FLAT MF72-490 DOLBY (VNMI)	Basic 3																
XENTIA 72 FLAT MF72-490/8 DOLBY (VNA)	Basic 3																
XENTIA 72 FLAT MF72-490/8 DOLBY (VNMI)	Basic 3																
XENTIA 72 M72-400 DOLBY (VNMI)	Basic 3																
XENTIA 72 M72-400 DOLBY (VNX)	Basic 3																
XENTIA 72 M72-400/8 DOLBY (VNMI)	Basic 3																
XENTIA 72 M72-400/8 DOLBY (VNX)	Basic 3																
XENTIA 82 FLAT MFW82-490/9 DOLBY (VNMI)	Basic 3																
XS63/81																	
XS70/81																	
Tuning Module																	
Tuning Module																	
Control Unit	19	22		27	18	27	18	18	27	18	27						
CRT Panel	36	41	48	46	46	46	46	44	44	44	44	48	27	27			
Socket Board			18									18					
EPG Board			01	01*	01	01*	01	01	01*	01	01*	01					
Colour Synchro																	
Feature Box	08		16	15	12	15	12	13	13	13	13	15					
Keyboard																	
Mains Switch Board			12									12					
AF Module			26	32	24/27*	26	26/27*	24/27*	32	26/27*	26	28					
East/West																	
PIP Module																	
Processor Board			11	11	08*	11	08*	10	10	10	10	11					
Processor Board				18*	11*	18*	11*		20*		20*						
SAT Module																	
Signal Module	04		10	14		10	10	08	14	10	10	13					
Signal Module	06°																
Tuner	04	06	06	06	06	06	06	06	06	06	06	06	03*	03*			
Tuner	03/06•												04*	04*			
VGA Module					03		03										
Video Module																	
IF Module													12	12			
Different Modules	21		07	08	08	08	08	22	46	09	46	07					
Different Modules			25	46	22	46	09			22	09	25					
Different Modules			22			09	22					22					
Different Modules			44									44					
Different Modules			09									09					
Different Modules																	
Different Modules																	
Different Modules																	
Remote Control	12	07	14	14	14	14	14	12	12	12	12	14	01	01			
Remote Control																	
retrofitable	04		06	06	06	06	06	06	06	06	06	06					
retrofitable	08		07	07	07	07	07	07	07	07	07	07					
retrofitable	14		11	11	11	11	11	11	11	11	11	11					
retrofitable								15		15							
MI	99	00	00	00	99	00	99	99	00	99	00	00	96	96			

\* optional \*\* dependent on CRT panel • dependent on signal module ° optional if software version ≥ 19798 318 1000



# GRUNDIG Tele-Pilot® Remote Control Handsets/Overview - TV Product Range



TP711  
29642 062 0100



TP712  
29642 063 0100



TP713  
29642 063 0400



TP715 (Hotel\*)  
29642 062 1102  
29642 062 4600  
29642 062 4700  
29642 062 4800  
\*29642 061 1501



TP 720 (SAT)  
29642 059 0600  
(29642 059 1800)



TP750C  
29642 062 1800  
29642 062 1900  
29642 062 5100  
29642 062 5200  
29642 062 5300



TP760 (HiFi)  
29642 059 0100  
(29642 059 1100)



TP770  
29642 062 1100



TP 771  
29642 059 5100



TP800 (Hotel\*)  
29642 061 0100  
\*29642 061 0800



TP 800 PT  
29642 061 0400



TP 810 C  
29642 061 1001

TV



**TP 815 C**  
29642 061 1400



**TP 850 C**  
29642 061 0901



**TP 950 C**  
29642 061 0701



**TP900**  
29642 061 1100



**TP 910 C**  
29642 061 1201



**TVP860**  
72011 650 0400



**TVP762**  
75988 017 0600



**TVP763**  
75988 019 9700



**TP WEB**  
29642 064 0100



**Personal Remote 10**  
29642 061 1501



**TV Control 1**  
72011 601 0000



**TV Control 2**  
72011 602 0000

## Retrofitting Options for Colour Television Receivers (up to 1998/1999)

1. To receive additional or different Standards
2. Teletext
3. Connecting sockets
4. Sat reception

The following tables show which retrofit kit or module is required in each case.

In **Table 1** all CCIR-PAL Colour Television Receivers up to '98/99 are listed along with a number code.

In connection with **Table 2** these number codes are used to establish the module required to achieve retrofit or conversion requirements. The resulting 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 or Sales Companies.



Table 1 to establish the number code

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz Norm M	GB Sound 6 MHz Norm I	OIRT Sound 6.5 MHz Norm D/K/K'	Tele- text	SAT	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
ATLANTA SE 7220 a IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
ATLANTA SE 7220 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
ATLANTA SE 7220 IDTV/PIP	●	-	1)3)4)	-	-	●	19	●	●	●
ATLANTA SE 7289 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
BERLIN SE 70-100/8	●	●	1)2)3)	●	●	●	19	●	●	k
BERLIN SE 7027/8 PIP	●	●	1)2)3)	●	●	●	19	●	●	●
BERLIN SE 7290 IDTV/LOG	●	10	10	10	10	●	-	●	●	k
BOSTON SE 7090 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
BOSTON SE 7090/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
BOSTON ST 270 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
BOSTON ST 270/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
COPENHAGEN ST 763 TOP/LOG	13	-	1)2)3)	-	-	●	18	●	●	k
Denver SE 82-100 PALplus	●	●	●	●	●	●	19	●	●	k
Denver SE 82-100 PALplus (with dw)	●	●	●	●	●	●	19	●	●	●
DENVER SE 82-100 PALplus (without dw)	●	●	●	●	●	●	19	●	●	●
DENVER SE 8216/9 PALplus	●	●	●	●	●	●	19	●	●	k
DENVER SE 8216/9 PIP/Referenz	●	●	●	●	●	●	19	●	●	k
E 55-700 TOP/LOG TV-Max	13	-	-	-	-	●	18	●	●	K
E 55-700/9 TOP/LOG TV-Max	●	●	●	●	●	●	18	●	●	K
E 72-170 IDTV Elegance	●	10	10	10	10	●	-	●	●	k
E 72-911 DPL/IDTV	●	●	●	●	●	●	-	●	●	k
GREENVILLE 370 SE 3781 text	-	-	-	-	-	●	23	-	-	●
GREENVILLE 550 SE 5586 TOP	-	-	-	-	-	●	20	●	●	●
GREENVILLE 7002 text	-	-	-	-	-	●	-	-	●	k
GREENVILLE 7002/8 text	●	●	-	●	●	●	-	-	●	k
GREENVILLE 7003 NIC/TOP	-	-	-	●	●	●	-	●	●	k
GREENVILLE 7003 text	-	-	-	-	-	●	-	●	●	k
GREENVILLE 7004 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
LISSABON SE 5576 text	-	-	1)3)4)	-	-	●	-	●	●	k
M 55-280/8 a IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	●
M 55-280/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
M 61-1690 DPL	●	●	●	●	●	●	18	●	●	k
M 61-1690 TOP/LOG	●	●	●	●	●	●	18	●	●	k
M 63-115/9 IDTV	●	●	●	●	●	●	-	●	●	k
M 63-280 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
M 63-280/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
M 63-281 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
M 63-281 IDTV/LOG /from 7/98	●	-	1)3)4)	-	-	●	19	●	●	●
M 63-281/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
M 63-281/8 IDTV/LOG /from 7/98	●	●	1)2)3)	●	●	●	19	●	●	●
M 63-776/9 TOP	●	●	●	●	●	●	18	●	●	k
M 70-169/9 IDTV	●	●	●	●	●	●	-	●	●	k
M 70-1690 DPL/IDTV	●	●	●	●	●	●	-	●	●	k
M 70-1690 DPL/IDTV/LOG	●	●	●	●	●	●	-	●	●	k
M 70-1690 TOP/LOG	●	●	●	●	●	●	18	●	●	k
M 70-269 PALplus/LOG	●	●	●	●	●	●	19	●	●	k
M 70-269/9 Referenz	●	●	●	●	●	●	19	●	●	k
M 70-280 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
M 70-280/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
M 70-281 IDTV/LOG /from 7/98	●	-	1)3)4)	-	-	●	19	●	●	●
M 70-281 IDTV/LOG /to 7/98	●	-	1)3)4)	-	-	●	19	●	●	k

1) NTSC 4.43 MHz  
4) no NTSC 3.58 MHz

2) NTSC 3.58 MHz only via AV  
5) TV sets designated /8 no French Band I

3) no 4.5 MHz sound

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 Norm M	Sound 6 MHz Norm I	Sound 6.5 MHz Norm D/K/K'	text		Hosiden or Euro-AV	Audio Cinch	phone Socket k = 3.5 K = 6.3
	Norm B/G	Norm L								
M 70-281/8 IDTV/LOG /from 7/98	●	●	1)2)3)	●	●	●	19	●	●	●
M 70-281/8 IDTV/LOG /to 7/98	●	●	1)2)3)	●	●	●	19	●	●	k
M 70-290 IDTV	●	-	1)3)4)	-	-	●	19	●	●	●
M 70-290/8 IDTV	●	●	1)2)3)	●	●	●	19	●	●	●
M 72-100	●	-	1)3)4)	-	-	●	19	●	●	k
M 72-100 a	●	-	1)3)4)	-	-	●	19	●	●	●
M 72-100/8	●	●	1)2)3)	●	●	●	19	●	●	k
M 72-100/8 a	●	●	1)2)3)	●	●	●	19	●	●	●
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
M 72-270 IDTV/LOG Elegance	●	-	1)3)4)	-	-	●	19	●	●	k
M 72-315 IDTV/Referenz	●	10	10	10	10	●	-	●	●	k
M 72-315/9 IDTV/PIP/Referenz	●	●	●	●	●	●	-	●	●	k
M 72-410 Reference	●	21	21	21	21	●	19	●	●	k
M 72-410 Reference/PIP	●	21	21	21	21	●	19	●	●	k
M 72-410/9 Reference	●	●	●	●	●	●	19	●	●	k
M 82-115/9 IDTV/PIP	●	●	●	●	●	●	-	●	●	k
M 82-169 a PALplus	●	●	●	●	●	●	-	●	●	k
M 82-169/9 IDTV	●	●	●	●	●	●	-	●	●	k
M 82-1690/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
M 82-269 PALplus/LOG	●	●	●	●	●	●	19	●	●	k
M 82-269/9 Reference	●	●	●	●	●	●	19	●	●	k
M 84-210/8 a IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	●
M 84-410/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
M 95-115/9 IDTV/PIP	●	●	●	●	●	●	-	●	●	k
M 95-410/9 a Reference/PIP	●	●	●	●	●	●	19	●	●	k
M 95-410/90 Referenz/PIP	●	●	●	●	●	●	19	●	●	k
M 95-411/9 Reference/PIP	●	●	●	●	●	●	19	●	●	●
Melbourne SE 7210 a NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
Melbourne SE 7210 NIC/TOP	-	-	1)3)4)	●	●	●	-	●	●	k
Melbourne SE 7210 TOP	-	-	1)3)4)	-	-	●	-	●	●	k
Miami SE 3780 text	-	-	-	-	-	●	-	-	-	●
MW 70-100/8	●	●	1)2)3)	●	●	●	19	●	●	k
MW 70-269 PALplus	●	21	21	21	21	●	19	●	●	k
MW 70-269 PALplus (with dw)	●	-	1)2)3)	-	-	●	19	●	●	●
MW 70-2690 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
MW 82-100/9	●	●	●	●	●	●	19	●	●	k
MW 82-100/9 (with dw)	●	●	●	●	●	●	19	●	●	●
MW 82-100/9 (without dw)	●	●	●	●	●	●	19	●	●	●
MW 82-100/9 PALplus	●	●	●	●	●	●	19	●	●	k
MW 82-100/9 PALplus (with dw)	●	●	●	●	●	●	19	●	●	●
MW 82-100/9 PALplus (without dw)	●	●	●	●	●	●	19	●	●	●
MW 82-2690 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	k
MW 82-50/8	●	●	1)2)3)	●	●	●	19	●	●	●
MW 82-520/9 PALplus	●	●	●	●	●	●	19	●	●	●
P 37-065	-	-	-	-	-	-	-	-	-	-
P 37-065/5	●	-	1)3)4)	-	●	-	-	-	-	-
P 37-070	-	-	-	-	-	-	-	-	-	-
P 37-071	-	-	-	-	-	-	-	-	-	-
P 37-080	-	-	-	-	-	-	-	-	-	●

1) NTSC 4.43 MHz  
4) no NTSC 3.58 MHz

2) NTSC 3,58 MHz only via AV  
5) TV sets designated /8 no French Band I

3) no 4.5 MHz sound

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

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz Norm M	GB Sound 6 MHz Norm I	OIRT Sound 6.5 MHz Norm D/K/K'	Tele- text	SAT	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
P 37-3035	●	-	1)3)4)	-	●	-	-	-	-	●
P 37-730 text	-	-	-	-	-	●	-	-	-	-
P 37-731 text	-	-	-	-	-	●	-	-	-	k
P 37-731/12 text	●	●	-	-	-	●	-	-	-	-
P 37-732/5 text	●	-	1)3)4)	-	●	●	-	-	-	-
P 37-830 text	-	-	-	-	-	●	-	-	-	●
P 37-830/12 text Globetrotter	●	●	-	●	-	●	-	-	-	●
P 37-830/4 text	●	-	1)3)4)	-	●	●	-	-	-	●
P 37-842 FR	●	●	-	●	-	●	-	-	-	●
P 37-843 a FR	●	●	-	●	-	-	-	-	-	-
P 37-846 FR/text	●	●	-	●	-	●	-	-	-	●
P 37-847 FR/text	●	●	-	●	-	●	-	-	-	●
P 3770 text	-	-	-	-	-	●	-	-	-	-
P 40-64/4 FM/CL	●	-	-	●	●	14	-	-	●	k
P 45-731 text	-	-	-	-	-	●	-	-	-	k
P 45-830 text	-	-	-	-	-	●	-	-	-	●
P 45-830/4 text	●	-	1)3)4)	-	●	●	-	-	-	●
P 45-846 FR/text	●	●	-	●	-	●	-	-	-	●
P 45-847 FR/text	●	●	-	●	-	●	-	-	-	●
Planatron 110/1E	●	●	5) 6)	-	-	●	-	●	●	●
Planatron PW 110-520/9 PALplus	●	●	●	●	●	●	22	●	●	●
SE 6376 TOP/LOG	13	-	1)2)3)	-	-	●	18	●	●	k
SE 7088 IDTV	●	10	10	10	10	●	-	●	●	k
SE 7089 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
SP 737 text GREENVILLE 37	-	-	-	-	-	●	-	●	●	k
ST 170 IDTV Boston	●	10	10	10	10	●	-	●	●	k
ST 1770 TOP GREENVILLE 70	13	-	-	-	-	●	18	●	●	k
ST 55-710 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 55-750 text	-	-	-	-	-	●	-	●	●	k
ST 55-750/9 text	●	●	●	●	●	●	-	●	●	k
ST 55-798 text	-	-	1)3)4)	-	-	●	-	●	●	●
ST 55-800 a text	-	-	1)3)4)	-	-	●	20	●	●	k
ST 55-800 a TOP	-	-	-	-	-	●	20	●	●	●
ST 55-800 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 55-800 text	-	-	1)3)4)	-	-	●	-	●	●	k
ST 55-800/9 text	●	●	●	●	●	●	-	●	●	k
ST 55-801/9 text	●	●	●	●	●	●	-	●	●	●
ST 55-850 FR/TOP	●	●	1)3)4)	●	-	●	20	●	●	●
ST 55-850 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 55-850 TOP	-	-	-	-	-	●	20	●	●	●
ST 55-876/9 text	●	●	●	●	●	●	-	●	●	k
ST 55-900 FR/TOP	●	●	1)3)4)	●	-	●	20	●	●	●
ST 55-95 ECO	-	-	-	-	-	●	-	●	-	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	●	●	1)3)4)	●	●	●	19	●	●	k
ST 63-255/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
ST 63-270/8 IDTV /from 6/98	●	●	1)2)3)	●	●	●	19	●	●	●
ST 63-700 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	k
ST 63-700 NIC/TOP	-	-	-	●	●	●	-	●	●	k
ST 63-700 text	-	-	-	-	-	●	-	●	●	k

1) NTSC 4.43 MHz  
4) no NTSC 3.58 MHz

2) NTSC 3.58 MHz only via AV  
5) TV sets designated /8, no French Band I

3) no 4.5 MHz sound

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 Norm M	Sound 6 MHz Norm I	Sound 6.5 MHz Norm D/K/K'	text		Hosiden or Euro-AV	Audio Cinch	phone Socket k = 3.5 K = 6.3
	Norm B/G	Norm L								
ST 63-705 NIC/text	-	-	1)2)3)	●	●	●	20	●	●	●
ST 63-710 NIC/text	-	-	1)2)3)	●	●	●	20	●	●	●
ST 63-720/8 text	●	●	-	●	●	●	-	-	●	k
ST 63-725/8 text	●	●	-	●	●	●	-	-	●	k
ST 63-750 text	-	-	-	-	-	●	-	-	●	k
ST 63-750/9 TOP	●	●	●	●	●	●	18	●	●	k
ST 63-780 NIC/TOP	-	-	-	●	●	●	-	●	●	k
ST 63-780 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 63-800 TOP/LOG	13	-	1)3)4)	-	-	●	18	●	●	k
ST 63-800/9 TOP/LOG	●	●	●	●	●	●	18	●	●	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 70-200 IDTV	●	-	1)3)4)	-	-	●	19	●	●	●
ST 70-255 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
ST 70-255/8 IDTV	●	●	1)3)4)	●	●	●	19	●	●	k
ST 70-255/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
ST 70-270 IDTV /from 8/98	●	-	1)3)4)	-	-	●	20	●	●	●
ST 70-270 IDTV /to 8/98	●	-	1)3)4)	-	-	●	19	●	●	k
ST 70-270/8 IDTV /from 9/98	●	●	1)2)3)	●	●	●	19	●	●	●
ST 70-270/8 IDTV /to 9/98	●	●	1)2)3)	●	●	●	19	●	●	k
ST 70-278 IDTV /from 8/98	●	-	1)3)4)	-	-	●	19	●	●	●
ST 70-600 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-700 DPL/NIC/FT	-	-	-	●	●	●	-	●	●	k
ST 70-700 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	●
ST 70-700 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-700 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-705 NIC/text	-	-	1)2)3)	●	●	●	20	●	●	●
ST 70-705/8 text	●	●	-	●	●	●	-	-	●	k
ST 70-705/9 TOP	●	●	●	●	●	●	18	●	●	k
ST 70-705/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
ST 70-710 NIC/text	-	-	1)2)3)	●	●	●	20	●	●	●
ST 70-715 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-720/8 text	●	●	-	●	●	●	-	-	●	k
ST 70-725/8 text	●	●	-	●	●	●	-	-	●	k
ST 70-728 text	-	-	-	-	-	●	-	-	-	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 DPL/LOG	●	●	●	●	●	●	18	●	●	k
ST 70-755/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
ST 70-760 TOP/LOG	13	-	1)3)4)	●	●	●	18	●	●	k
ST 70-770 text	-	-	-	-	-	●	-	-	●	k
ST 70-778 text	-	-	-	-	-	●	-	-	●	k
ST 70-780 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	k
ST 70-780 FR/TOP	●	●	1)3)4)	●	-	●	20	●	●	●
ST 70-780 NIC/TOP	-	-	-	●	●	●	-	●	●	k
ST 70-780 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●

1) NTSC 4.43 MHz  
4) no NTSC 3.58 MHz

2) NTSC 3.58 MHz only via AV  
5) TV sets designated /8 no French Band I

3) no 4.5 MHz sound

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

	Secam East	Secam West 5)	NTSC Sound 4.5 MHz Norm M	GB Sound 6 MHz Norm I	OIRT Sound 6.5 MHz Norm D/K/K'	Tele- text	SAT	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
ST 70-780 text	-	-	-	-	-	●	-	●	●	k
ST 70-780 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-788	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-798 text	-	-	1)3)4)	-	-	●	20	●	●	●
ST 70-800 TOP/LOG	13	-	1)3)4)	●	●	●	18	●	●	k
ST 70-800/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
ST 70-810 DPL	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-819 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-850 NIC/PIP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 70-860 FR/TOP	●	●	1)3)4)	●	-	●	-	●	●	●
ST 70-869 IDTV	●	●	1)2)3)	●	●	●	19	●	●	k
ST 70-95 TOP	13	-	-	-	-	●	18	●	-	k
ST 70-97 IDTV	●	-	1)3)4)	-	-	●	19	●	●	k
ST 72-01 IDTV	●	-	1)3)4)	-	-	●	19	●	●	●
ST 72-161 IDTV	●	10	10	10	10	●	-	●	●	k
ST 72-161/9 IDTV	●	●	●	●	●	●	-	●	●	k
ST 72-261 IDTV/LOG	●	-	1)3)4)	-	-	●	19	●	●	k
ST 72-261/8 IDTV/LOG	●	●	1)2)3)	●	●	●	19	●	●	k
ST 72-700 TOP	-	-	1)3)4)	●	●	●	20	●	●	●
ST 72-760 text	-	-	-	-	-	●	-	-	●	k
ST 72-760/8 text	●	●	-	●	●	●	-	-	●	k
ST 72-761 SAT	13	-	-	-	-	●	●	●	●	k
ST 72-762 TOP	13	-	-	-	-	●	18	●	●	k
ST 72-762/9 TOP	●	●	●	●	●	●	18	●	●	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
ST 763 TOP COPENHAGEN	13	-	-	-	-	●	18	●	●	k
ST 770/9 TOP HAMBURG	●	●	●	●	●	●	18	●	●	k
ST 84-796/9 TOP/LOG	●	●	●	●	●	●	18	●	●	k
ST 84-896 FR/TOP	●	●	1)3)4)	●	-	●	20	●	●	●
ST 84-896 NIC/TOP	-	-	1)3)4)	●	●	●	20	●	●	●
Sydney 100SE7020 IDTV/LOG /from 6/98	●	-	1)3)4)	-	-	●	19	●	●	●
Sydney 100SE7020 IDTV/LOG /to 6/98	●	-	1)3)4)	-	-	●	19	●	●	k
Sydney 100SE7021 IDTV/PIP	●	-	1)3)4)	-	-	●	19	●	●	●
Sydney 100/8SE7020/8IDTV/LOG/fr. 6/98	●	●	1)2)3)	●	●	●	19	●	●	●
Sydney 100/8SE7020/8IDTV/LOG/to 6/98	●	●	1)2)3)	●	●	●	19	●	●	k
SYDNEY ST 872/8 text	●	●	-	●	●	●	-	-	●	k
T 51-070	-	-	-	-	-	-	-	-	-	-
T 51-071	-	-	-	-	-	-	-	-	-	-
T 51-3035 text	●	-	1)3)4)	-	●	●	-	-	-	●
T 51-711 text	-	-	-	-	-	●	-	-	-	-
T 51-720 text	-	-	-	-	-	●	-	-	-	●
T 51-730 text	-	-	-	-	-	●	-	-	-	-
T 51-730/5 text	●	-	1)3)4)	-	●	●	-	-	-	-
T 51-731 text	-	-	-	-	-	●	-	-	-	-
T 51-732/5 text	●	-	1)3)4)	-	●	●	-	-	-	-
T 51-846 FR/text	●	●	-	●	-	●	-	-	-	●
T 55-3035	●	-	1)3)4)	-	●	-	-	-	-	●
T 55-3035 text	●	-	1)3)4)	-	●	●	-	-	-	●

1) NTSC 4.43 MHz  
4) no NTSC 3.58 MHz

2) NTSC 3.58 MHz only via AV  
5) TV sets designated /8 no French Band I

3) no 4.5 MHz sound



Continuation of Table 1 to establish the number code	Secam East	Secam West 5)	NTSC Sound 4.5 MHz Norm M	GB Sound 6 MHz Norm I	OIRT Sound 6.5 MHz Norm D/K/K'	Tele- text	SAT	S-VHS Hosiden or Euro-AV	Video+ Audio Cinch	Head- phone Socket k = 3.5 K = 6.3
	Norm B/G	Norm L								
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
T 55-731 a text	-	-	-	-	-	●	-	-	-	●
T 55-731 text	-	-	-	-	-	●	-	-	-	k
T 55-732/5 text	●	-	1)3)4)	-	●	●	-	-	-	k
T 55-830 text	-	-	-	-	-	●	-	-	-	●
T 55-830/4 text	-	-	1)3)4)	-	●	●	-	-	-	●
T 55-840 TOP/SAT	-	-	-	-	-	●	●	-	-	●
T 55-842 FR	●	●	-	●	-	-	-	-	-	●
T 55-843 FR	●	●	-	●	-	-	-	-	-	-
T 55-846 FR/text	●	●	-	●	-	●	-	-	-	●
T 55-847 FR/text	●	●	-	●	-	●	-	-	-	●
T 5574 TOP GREENVILLE 55	-	-	-	-	-	●	17	●	●	k
T 70-740 text	-	-	-	-	-	●	-	-	-	k
T 70-740 TOP	-	-	-	-	-	●	-	-	●	k
T 70-740/4 TOP	●	-	-	-	●	●	-	-	●	k
T 70-843 FR	●	●	-	●	-	-	-	-	-	k
TRENTO SE 7016/9 PIP/Referenz	●	●	●	●	●	●	19	●	●	k
Trento SE 7026 PALplus	●	21	21	21	21	●	19	●	●	k
TVR 3730 text (version 1)	-	-	5)	-	-	●	-	-	●	●
TVR 3730 text (version 2)	-	-	5)	-	-	●	-	-	●	●
TVR 5100 (version 3)	-	-	5)	-	-	●	-	-	6)	●
TVR 5130 text (version 1)	-	-	5)	-	-	●	-	-	●	●
TVR 5130 text (version 2)	-	-	5)	-	-	●	-	-	●	●
TVR 5530 text (version 1)	-	-	5)	-	-	●	-	-	●	●
TVR 5530 text (V version 2)	-	-	5)	-	-	●	-	-	●	●
Wien 100 SE 6320 IDTV/LOG /from 6/98	●	-	1)3)4)	-	-	●	19	●	●	●
Wien 100 SE 6320 IDTV/LOG /to 6/98	●	-	1)3)4)	-	-	●	19	●	●	k
XS 55/1	-	-	-	-	-	●	-	●	-	k
XS 55/9	●	●	●	●	●	●	-	●	-	k
XS 63/2	-	-	-	-	-	●	-	-	-	k
XS 63/81	●	●	-	●	●	●	-	-	-	k
XS 70/81	●	●	-	●	●	●	-	-	-	k

1) NTSC 4.43 MHz  
4) no NTSC 3.58 MHz

2) NTSC 3.58 MHz only via AV  
5) TV sets designated /8 no French Band I

3) no 4.5 MHz sound

**Table 2/ Allocation of Number Code (from Table 1) - required material - redundant modules**

Number Code	For conversion necessary adapters, kits and modules	Redundant modules (basic version)
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 2800	Colour/RGB 29504 105 1400
5	Colour/RGB 29504 105 5100/ 5200/ 5400	Colour/RGB 29504 105 4900/ 5000
6	Audio module 6.5 MHz (see number code 2) + Colour/RGB 29504 105 5100/ 5200	Colour/RGB 29504 105 5000
7	VT 5336 (West) G.AV 7800 (29504 108 7600) or VT 5337 (East) G.AV 7900 (29504 108 7700)	
8	IF 29504 162 1700 + Colour/RGB 29504 165 5100/ 5200/ 5400 + Control Processor (IC 811) SDA 20561 A009 or equivalent, part no. 8305 157 56100	IF 29504 102 1700 Colour/RGB 29504 105 5000/ 5100/ 5200 SDA 20561 A008 or lower
9	VT 5436 G.AX 03 00 (29504 108 8300)	
10	IF 29504 162 4300/ 4600 Connecting cable IF/Display unit "IM" part no. 29200 233 4100	IF 29504 102 3300
11	IF 29504 162 4400 Connecting cable IF/Display unit (main chassis) "NI" part no. 29210 234 2200	IF 29504 102 1400
12 2)	IF 29504 182 2500	29504 102 2500
13	Colour Sync Module 29504 165 6700	29504 105 5600
14	VT 6301 G.AY 1400 (29504 108 3900)	
15	IF 29504 112 2500	IF 29504 102 2500
16 2)	IF 29504 182 2500 + Colour/RGB 29504 105 2800	IF 29504 102 2500 Colour/RGB 29504 105 1500
17	SER 7300 G.AX 7300 (29504 106 2300)	
18	SER 6350 G.AX 8200 (29504 106 2200)	
19	SER 150ET G.AD 2500 (29504 106 2400)	
20	Micro Sat Receiver for external integration	for modules produced from 9/98
21	Signal Module 29504 162 3500	29504 102 3500
22	SER 520 retrofittable into Planatron PW 110-520/9 PALplus (29305 302 0200)	
23	SER 2000 (29504 106 2800) G.AE 0600	

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

2) Apply an operating voltage of +8 - 12 V (e.g. +B') to IF-contact 15 on the main chassis. An additional single-pole switch (ON/OFF) can be used to switch over between 5.5 and 6.5 MHz sound IF.

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
ARGANTO 70 Flat MFW 70-530/9 DPL	GCK7075	CUC 1930	Basic 3					x	x				
ARGANTO 70 MW 70-510/8 a DPL	GCL8475	CUC 1930	Basic 3					x	x				
ARGANTO 70 MW 70-510/8 DPL	GCH5975	CUC 1930	Basic 3					x	x				
ARGANTO 82 Flat MFW 82-530/9 DPL	GCK6975	CUC 1931	Basic 3					x	x				
ARGANTO 82 Flat MFW 82-530/9 DVD	GCL8775	CUC 1931	Basic 3					x	x				
ARGANTO 82 MW 82-510/8 a DPL	GCL83...	CUC 1931	Basic 3					x	x				
ARGANTO 82 MW 82-510/8 DPL	GCH58...	CUC 1931	Basic 3					x	x				
ARGANTO 82 MW 82-520/9 PAL PLUS	GCH4875	CUC 1983	Digi 6		x								19798 311 5000
Atlanta Flat SE 7260 DOLBY	GCK6475	CUC 1832	Basic 3					x	x				
Atlanta SE 7220 IDTV/LOG	GCE95...	CUC 1826	Basic +		x								19798 300 3200
Atlanta SE 7220 IDTV/PIP	GCG52...	CUC 1830	Basic ++		x								
Atlanta SE 7250 a PIP/DOLBY	GCL11...	CUC 1832	Basic 3					x	x				
Atlanta SE 7250 PIP/DOLBY	GCI2575	CUC 1832	Basic 3					x	x				
Atlanta SE 7250/8 DOLBY	GCI73...	CUC 1832	Basic 3					x	x				
Berlin SE 70-100/8	GCF68...	CUC 1828	Basic ++		x								
Berlin SE 7027/8 PIP	GCH5175	CUC 1828	Basic ++		x								
Berlin SE 7050/8 PIP/DOLBY	GCI7075	CUC 1930	Basic 3					x	x				
Boston SE 7010 IDTV	GCI0475	CUC 1836	Basic ++		x								
Boston SE 7012 DOLBY	GCI2375	CUC 1837	Digi 100						x				
Boston SE 7090/8 IDTV/LOG	GCF3275	CUC 1826	Basic +		x								19798 300 3200
DAVIO 55 M 55-290/8 IDTV	GCH47...	CUC 1806	Basic ++		x								
DAVIO 55 ST 55-850 FR/TOP	GCH0972FB	CUC 2020 F	CUC 2000	x									
DAVIO 55 ST 55-850 NIC/TOP	GCG88...	CUC 2020 N	CUC 2000	x									
DAVIO 55 ST 55-850 TOP	GCG87:	CUC 2020	CUC 2000	x									
DAVIO 55 ST 55-852 DOLBY	GCK4672	CUC 2021	CUC 2000									x	
DAVIO 55 ST 55-852 NIC/DOLBY	GCK45...	CUC 2021 N	CUC 2000									x	
DAVIO 55 ST 55-855 NIC/TOP	GCK12...	CUC 2021 N	CUC 2000								x	x	
DAVIO 55 ST 55-855 TOP	GCH6372	CUC 2021	CUC 2000								x	x	
DAVIO 55 ST 55-870 FR/TOP	GCK13...	CUC 2021 F	CUC 2000								x	x	

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
DAVIO 55 ST 55-880 FR/DOLBY	GCK4752	CUC 2021 F	CUC 2000									x	
DAVIO 70 M 70-290 IDTV	GCH3072	CUC 1836	Basic ++		x								
DAVIO 70 M 70-290/8 IDTV	GCH37...	CUC 1836	Basic ++		x								
DAVIO 70 M 70-292 DOLBY	GCI8572	CUC 1837	Digi 100						x				
DAVIO 70 M 70-292/8 DOLBY	GCI84...	CUC 1837	Digi 100						x				
DAVIO 70 ST 70-850 NIC/PIP	GCH1072	CUC 2050 N	CUC 2000	x	x <sup>2)</sup>	x <sup>2)</sup>							SER250/251 from appr. 4/99
DAVIO 70 ST 70-8510 NIC/DOLBY	GCK5272	CUC 2030 N	CUC 2000	x									
DAVIO 70 ST 70-853 NIC/PIP	GCK0272	CUC 2050 N	CUC 2000	x	x <sup>2)</sup>	x <sup>2)</sup>							SER250/251 from appr. 4/99
DAVIO 70 ST 70-854 PIP/DOLBY	GCK5572	CUC 2050 N	CUC 2000				x						
DAVIO 70 ST 70-860 FR/TOP	GCH1172FB	CUC 2030 F	CUC 2000	x <sup>1)</sup>									from appr 11/98
DAVIO 70 ST 70-870 FR/TOP	GCI21...	CUC 2035 F	CUC 2000	x									
DAVIO 70 ST 70-880 FR/DOLBY	GCK5352FB	CUC 2035 F	CUC 2000	x									
Denver SE 82-100 PAL PLUS	GCG30...	CUC 1984	Digi 6		x								19798 311 5000
Denver SE 8216/9 PAL PLUS	GCF1590	CUC 1984	Digi 6		x								19798 311 5000
Denver SE 8216/9 Ref./PIP	GCF0890	CUC 1984	Digi 6		x								19798 311 5000
Denver SE 8227/8 PIP	GCH7875	CUC 1929	Basic ++		x								
Denver SE 8250/8 PIP/DOLBY	GCI6975	CUC 1931	Basic 3					x	x				
ELEGANCE 70 MW 70-150/8 DOLBY	GCI9142	CUC 1934	Digi 100						x				
ELEGANCE 70 MW 70-2101 NIC/DOLBY	GCL8869	CUC 2059 N	CUC 2000				x						
ELEGANCE 70 ST 70-300 DOLBY	GCK9742	CUC 1837	Digi 100						x				
ELEGANCE 70 ST 70-300/8 DOLBY	GCL0642	CUC 1837	Digi 100						x				
ELEGANCE 70 ST 70-900 DOLBY	GCK9975	CUC 2032	CUC 2000				x						
ELEGANCE 70 ST 70-900 FR/DOLBY	GCL1075FB	CUC 2035 F	CUC 2000	x									
ELEGANCE 70 ST 70-900 NIC/DOLBY	GCL0775	CUC 2030 N	CUC 2000	x									
ELEGANCE 70 ST 70-900/4 DOLBY	GCL2775	CUC 2030 N	CUC 2000	x									
ELEGANCE 82 MW 82-150/8 DOLBY	GCI92...	CUC 1935	Digi 100						x				
ELEGANCE 82 MW 82-2101 NIC/DOLBY	GCL8969	CUC 2058 N	CUC 2000				x						

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
FINE ARTS VISION MFW 82-710/9DPL/PIP	GCH7242	CUC 1931	Basic 3					x	x				
FINE ARTS VISION MFW 82-720/9 DVD	GCI0542	CUC 1931	Basic 3					x	x				or SNR-DTR 2000
Greenville 100 SE 7030	GCI5182	CUC 1836	Basic ++		x								
Greenville 370 SE 3781 TOP	GCH7102	CUC 2003	CUC 2000								x	x	
Greenville 550 SE 5586 TOP	GCG3175	CUC 2020	CUC 2000	x									
Greenville 560 SE 5587 TOP	GCH4375	CUC 2021	CUC 2000								x	x	
Greenville 561 SE 5590 DOLBY	GCL0275	CUC 2021	CUC 2000									x	
Greenville 7003 FR/TOP	GCF9581FB	CUC 2030 F	CUC 2000	x <sup>1)</sup>									from appr 11/98
Greenville 7003 NIC/TOP	GCG0281	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
Greenville 7003 text	GCF2481	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
Greenville 7004 NIC/TOP	GCH5075	CUC 2050 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
Greenville 7005 TOP	GCH8475	CUC 2032	CUC 2000			x	x						
Greenville 7006 DOLBY	GCK5475	CUC 2032	CUC 2000				x						
Greenville 7006 NIC/DOLBY	GCL5475	CUC 2030 N	CUC 2000	x									
M 55-280/8 a IDTV/LOG	GCG5175	CUC 1806	Basic ++		x								
M 55-280/8 IDTV/LOG	GCF1481	CUC 1805	Basic		x								19798 300 3200
M 63-281 IDTV/LOG	GCE5481	CUC 1826	Basic +		x								19798 300 3200
M 63-281 IDTV/LOG	GCE54...	CUC 1836	Basic ++		x								
M 63-281/8 IDTV/LOG	GCE6081	CUC 1826	Basic +		x								19798 300 3200
M 63-281/8 IDTV/LOG	GCE60...	CUC 1836	Basic ++		x								
M 70-281 IDTV/LOG	GCF2881	CUC 1826	Basic +		x								19798 300 3200
M 70-281 IDTV/LOG	GCF2885	CUC 1836	Basic ++		x								
M 70-281/8 IDTV/LOG	GCF2981	CUC 1826	Basic +		x								19798 300 3200
M 70-281/8 IDTV/LOG	GCF2985	CUC 1836	Basic ++		x								
M 70-282	GCI89...	CUC 1836	Basic ++		x								
M 70-284 DOLBY	GCK6592	CUC 1837	Digi 100						x				
M 72-01	GCL7875	CUC 1830	Basic ++		x								
M 72-100	GCF1781	CUC 1826	Basic +		x								19798 300 3200

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
M 72-100 a	GCG5475	CUC 1830	Basic ++		x								
M 72-100/8	GCF1881	CUC 1826	Basic +		x								19798 300 3200
M 72-100/8 a	GCG5375	CUC 1830	Basic ++		x								
M 72-109	GCL2375	CUC 1830	Basic ++		x								
M 72-270/8 IDTV/LOG Elegance	GCH3626	CUC 1826	Basic +		x								19798 300 3200
M 72-410 Reference	GCE6175	CUC 1842	Digi 6		x								19798 311 5000
M 72-410 Reference/PIP	GCF60...	CUC 1842	Digi 6		x								19798 311 5000
M 72-410/9 Reference	GCE6275	CUC 1842	Digi 6		x								19798 311 5000
M 72-510/8 PIP	GCH6175	CUC 1832	Basic 3					x	x				
M 72-520/8 DPL/PIP	GCH6075	CUC 1832	Basic 3					x	x				
M 72-798 IDTV	GCI7172	CUC 1830	Basic ++		x								
M 82-269 PAL PLUS/LOG	GCC7290	CUC 1983	Digi 6		x								19798 311 5000
M 82-269/9 Reference (Ph.-CRT)	GCF4090	CUC 1984	Digi 6		x								19798 311 5000
M 84-210/8 a IDTV/LOG	GCG5590	CUC 1829	Basic ++		x								
M 84-211/8 IDTV	GCI1290	CUC 1829	Basic ++		x								
M 84-212/8 DOLBY	GCI9090	CUC 1839	Digi 100						x				
M 95-410/9 Reference/PIP	GCE6390	CUC 1894	Digi 6		x								19798 311 5000
M 95-411/9 Reference/PIP	GCG4890	CUC 1894	Digi 6		x								19798 311 5000
Melbourne SE 7210 a NIC/TOP	GCG05...	CUC 2051 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
Melbourne SE 7212 TOP	GCI08...	CUC 2033	CUC 2000			x	x						
MW 70-100/8	GCF26...	CUC 1828	Basic ++		x								
MW 70-269 PAL PLUS	GCF67...	CUC 1952	Digi 6		x								19798 311 5000
MW 70-2690 FR/TOP	GCH1275FB	CUC 2059 F	CUC 2000	x									
MW 70-2690 NIC/TOP	GCF9875	CUC 2059 N	CUC 2000	x									
MW 70-2699 FR/TOP	GCI13...FB	CUC 2059 F	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
MW 70-2699 NIC/FT	GCK2475GB	CUC 2059 N	CUC 2000			x	x						

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
MW 70-2699 NIC/TOP	GCI1175	CUC 2059 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
MW 70-2699 NIC/TOP	GCI1178	CUC 2059 N	CUC 2000			x	x						
MW 70-2699 TOP	GCI4875	CUC 2059	CUC 2000			x	x						
MW 70-2700 DOLBY	GCK4075	CUC 2059	CUC 2000				x						
MW 70-2700 DPL/FT	GCI2075GB	CUC 2059 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
MW 70-2700 DPL/FT	GCI2078GB	CUC 2059 N	CUC 2000			x	x						
MW 70-2700 FR/DOLBY	GCK41...	CUC 2059 F	CUC 2000				x						
MW 70-2701 DOLBY/FT	GCL4292GB	CUC 2059 N	CUC 2000				x						
MW 70-2705 DPL/FT	GCL4192GB	CUC 2059 N	CUC 2000			x	x						
MW 70-2710 NIC/DOLBY	GCK3975	CUC 2059 N	CUC 2000				x						
MW 70-3699 DOLBY/FT	GCL3992GB	CUC 2059 N	CUC 2000				x						
MW 70-3699 NIC/FT	GCK7675GB	CUC 2059 N	CUC 2000			x	x						
MW 70-3700 DPL/FT	GCK7775GB	CUC 2059 N	CUC 2000			x	x						
MW 82-100/9	GCF43...	CUC 1984	Digi 6		x								19798 311 5000
MW 82-100/9 PAL PLUS	GCF42...	CUC 1983	Digi 6		x								19798 311 5000
MW 82-2690 NIC/TOP	GCF9775	CUC 2058 N	CUC 2000	x									
MW 82-2699 FR/TOP	GCI14...FB	CUC 2058 F	CUC 2000			x	x						
MW 82-2699 FR/TOP	GCI1475FB	CUC 2058 F	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
MW 82-2699 NIC/FT	GCK2575GB	CUC 2058 N	CUC 2000			x	x						
MW 82-2699 NIC/TOP	GCI1075	CUC 2058 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
MW 82-2699 NIC/TOP	GCI1078	CUC 2058 N	CUC 2000			x	x						
MW 82-2699 TOP	GCI4775	CUC 2058	CUC 2000			x	x						
MW 82-2700 DOLBY	GCK3775	CUC 2058	CUC 2000				x						
MW 82-2700 DPL/FT	GCI1975GB	CUC 2058 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
MW 82-2700 DPL/FT	GCI1978GB	CUC 2058 N	CUC 2000			x	x						
MW 82-2700 FR/DOLBY	GCK3875FB	CUC 2058 F	CUC 2000				x						
MW 82-2701 DOLBY/FT	GCL4092GB	CUC 2058 N	CUC 2000				x						
MW 82-2705 DPL/FT	GCL4392GB	CUC 2058 N	CUC 2000			x	x						
MW 82-2710 NIC/DOLBY	GCK36...	CUC 2058 N	CUC 2000				x						
MW 82-3699 DOLBY/FT	GCL3892GB	CUC 2058 N	CUC 2000				x						
MW 82-3699 NIC/FT	GCK7875GB	CUC 2058 N	CUC 2000			x	x						
MW 82-3700 DPL/FT	GCK7975GB	CUC 2058 N	CUC 2000			x	x						
MW 82-40/8	GCK2075	CUC 1929	Basic ++		x								
MW 82-50/8	GCH04...	CUC 1929	Basic ++		x								
P 37-840 FR	GCG9802FB	CUC 2003 F	CUC 2000								x	x	
Planatron PW 110-520/9 PAL PLUS	GCG7052	FLAT1								x			
ST 55-605 TOP	GCL1472	CUC 2021	CUC 2000								x	x	
ST 55-710 NIC/TOP	GCH0275	CUC 2020 N	CUC 2000	x									
ST 55-715 NIC/TOP	GCK1175	CUC 2021 N	CUC 2000								x	x	
ST 55-725 a FT/GB	GCG5075GB	CUC 2020 N	CUC 2000	x									
ST 55-725 b FT/GB	GCK1475GB	CUC 2021 N	CUC 2000								x	x	
ST 55-730 GB/DOLBY	GCK5675	CUC 2021 N	CUC 2000									x	
ST 55-730 S GB/DOLBY	GCL9700	CUC 2021 N	CUC 2000									x	
ST 55-750 FR/TOP	GCH7575FB	CUC 2020 F	CUC 2000	x									
ST 55-800 a TOP	GCG2775	CUC 2020	CUC 2000	x									
ST 55-800 NIC/TOP	GCG2875	CUC 2020 N	CUC 2000	x									
ST 55-805 NIC/TOP	GCK0975	CUC 2021 N	CUC 2000								x	x	
ST 55-805 TOP	GCH8275	CUC 2021	CUC 2000								x	x	
ST 55-805 TOP/TR	GCI6475	CUC 2021	CUC 2000								x	x	
ST 55-825 FT/GB	GCK7475GB	CUC 2021 N	CUC 2000								x	x	
ST 55-829 NIC/DOLBY	GCL3775	CUC 2021 N	CUC 2000									x	
ST 55-834 GB/DOLBY	GCL7675	CUC 2021 N	CUC 2000									x	
ST 55-898 DOLBY	GCL1872	CUC 2021	CUC 2000									x	



Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
ST 55-898 TOP	GCI7272	CUC 2021	CUC 2000								x	x	
ST 55-900 FR/TOP	GCG3275FB	CUC 2020 F	CUC 2000	x									
ST 55-905 FR/TOP	GCK10...	CUC 2021 F	CUC 2000								x	x	
ST 55-906 FR/DOLBY	GCL77...	CUC 2021 F	CUC 2000									x	
ST 63-270/8 IDTV	GCG1681	CUC 1825	Basic		x								19798 300 3200
ST 63-270/8 IDTV	GCG1685	CUC 1836	Basic ++		x								
ST 63-700 a NIC/FT	GCH9375GB	CUC 2030 N	CUC 2000	x									
ST 63-700 FR/TOP	GCF3581FB	CUC 2030 F	CUC 2000	x <sup>1)</sup>									from appr 11/98
ST 63-700 NIC/FT	GCG3581GB	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
ST 63-700 NIC/text	GCG2581	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 63-700 NIC/TOP	GCF4881	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
ST 63-700 text	GCF2581	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 63-701 NIC/TOP	GCH9075	CUC 2030 N	CUC 2000	x									
ST 63-702 NIC/TOP	GCH9275	CUC 2030 N	CUC 2000	x									
ST 63-702 TOP	GCH8675	CUC 2032	CUC 2000			x	x						
ST 63-705 FR/TOP	GCI1675FB	CUC 2035 F	CUC 2000	x									
ST 63-705 NIC/text	GCH4175	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 63-706 NIC/TOP	GCH9975	CUC 2030 N	CUC 2000	x									
ST 63-710 NIC/text	GCG4975	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 63-712 NIC/TOP	GCH9175	CUC 2030 N	CUC 2000	x									
ST 63-780 NIC/TOP	GCF6475	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
ST 63-780 text	GCF6375	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 63-782 NIC/TOP	GCI0175	CUC 2030 N	CUC 2000	x									
ST 63-782 TOP	GCH8775	CUC 2032	CUC 2000			x	x						
ST 63-875 DPL/FT	GCF7375GB	CUC 2050 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
ST 70-200 IDTV	GCH7075	CUC 1836	Basic ++		x								
ST 70-209	GCI6675	CUC 1836	Basic ++		x								
ST 70-250 IDTV	GCK0375	CUC 1836	Basic ++		x								

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
ST 70-260/8 IDTV	GCK1875	CUC 1836	Basic ++		x								
ST 70-270 IDTV	GCG1381	CUC 1825	Basic		x								19798 300 3200
ST 70-270 IDTV	GCG1385	CUC 1836	Basic ++		x								
ST 70-270/8 IDTV	GCG1481	CUC 1825	Basic		x								19798 300 3200
ST 70-270/8 IDTV	GCG1485	CUC 1836	Basic ++		x								
ST 70-278 IDTV	GCH0675	CUC 1825	Basic		x								19798 300 3200
ST 70-278 IDTV	GCH0685	CUC 1836	Basic ++		x								
ST 70-280 IDTV	GCI03...	CUC 1836	Basic ++		x								
ST 70-282/8	GCI86...	CUC 1836	Basic ++		x								
ST 70-284/8 DOLBY	GCK6692	CUC 1837	Digi 100						x				
ST 70-298 IDTV	GCL2175	CUC 1836	Basic ++		x								
ST 70-600 text	GCH1869	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-602 NIC/TOP	GCK1975	CUC 2030 N	CUC 2000	x									
ST 70-700 a NIC/FT	GCH9875GB	CUC 2030 N	CUC 2000	x									
ST 70-700 FR/TOP	GCF2281FB	CUC 2030 F	CUC 2000	x <sup>1)</sup>									from appr 11/98
ST 70-700 NIC/FT	GCG3481GB	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
ST 70-700 NIC/text	GCG2481	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-700 NIC/TOP	GCF2381	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
ST 70-700 text	GCF13...	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-701 NIC/TOP	GCH9575	CUC 2030 N	CUC 2000	x									
ST 70-7010 NIC/DOLBY	GCL5375	CUC 2030 N	CUC 2000	x									
ST 70-702 NIC/TOP	GCI02...	CUC 2030 N	CUC 2000	x									
ST 70-702 TOP	GCH8575	CUC 2032	CUC 2000			x	x						
ST 70-702 TOP/TR	GCI6575	CUC 2032	CUC 2000			x	x						
ST 70-703 NIC/TOP	GCK0175	CUC 2030 N	CUC 2000	x									
ST 70-705 FR TITANE	GCI9392FB	CUC 2035 F	CUC 2000	x									
ST 70-705 FR/TOP	GCI1575FB	CUC 2035 F	CUC 2000	x									
ST 70-705 NIC/text	GCH4075	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-706 NIC/TOP	GCH9675	CUC 2030 N	CUC 2000	x									

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
ST 70-707 NIC/FT	GCK7575GB	CUC 2030 N	CUC 2000	x									
ST 70-710 NIC/text	GCG2675	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-712 NIC/TOP	GCH9775	CUC 2030 N	CUC 2000	x									
ST 70-712/5 NIC/TOP	GCI5275	CUC 2030 N	CUC 2000	x									
ST 70-715 NIC/TOP	GCG8675	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
ST 70-730 NIC/TOP	GCH9475	CUC 2030 N	CUC 2000	x									
ST 70-740 NIC/DOLBY	GCL8175	CUC 2030 N	CUC 2000	x									
ST 70-780 FR/TOP	GCF5975FB	CUC 2030 F	CUC 2000	x <sup>1)</sup>									from appr 11/98
ST 70-780 NIC/TOP	GCF5875	CUC 2030 N	CUC 2000	x <sup>1)</sup>									from appr 7/98
ST 70-780 text	GCF57...	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-782 NIC/TOP	GCH8975	CUC 2030 N	CUC 2000	x									
ST 70-782 TOP	GCH8375	CUC 2032	CUC 2000			x	x						
ST 70-788	GCH0575	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-788 a	GCI6775	CUC 2032	CUC 2000			x	x						
ST 70-789 NIC/DOLBY	GCL2275	CUC 2032 N	CUC 2000				x						
ST 70-798 a text	GCI6875	CUC 2032	CUC 2000			x	x						
ST 70-798 text	GCH2975	CUC 2030	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 70-802 FR/DOLBY	GCK58...	CUC 2035 F	CUC 2000	x									
ST 70-810 DPL	GCH0775	CUC 2050 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
ST 70-819 NIC/TOP	GCH4675	CUC 2050 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
ST 70-820 TOP	GCI2275	CUC 2032	CUC 2000			x	x						
ST 70-822 DOLBY	GCK5775	CUC 2032	CUC 2000				x						
ST 70-822/4 DOLBY	GCL2575	CUC 2030 N	CUC 2000	x									
ST 70-829 NIC/DOLBY	GCL2475	CUC 2050 N	CUC 2000				x						
ST 70-869 a IDTV	GCK2686	CUC 1836	Basic ++		x								
ST 70-869 IDTV	GCF0181	CUC 1826	Basic +		x								19798 300 3200
ST 70-869 IDTV	GCF0185	CUC 1836	Basic ++		x								

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes
													EPROM Version
ST 70-870 FR/DPL	GCH0872FB	CUC 2050 F	CUC 2000	x									
ST 70-875 DPL/FT	GCG6775GB	CUC 2050 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
ST 70-898 NIC/DOLBY	GCL1975	CUC 2032 N	CUC 2000				x						
ST 70-97 IDTV	GCG0469	CUC 1825	Basic		x								19798 300 3200
ST 72-01 IDTV	GCG2069	CUC 1826	Basic +		x								19798 300 3200
ST 72-600 TOP	GCI5075	CUC 2033	CUC 2000			x	x						
ST 72-700 TOP	GCH6575	CUC 2051 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
ST 72-860 a NIC/TOP	GCG0675	CUC 2051 N	CUC 2000	x									
ST 72-860 FR/TOP	GCG0881FB	CUC 2031 F	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 72-860 NIC/TOP	GCF8681	CUC 2031 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 72-860 TOP	GCF8781	CUC 2031	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 72-8610 NIC/DOLBY	GCK4475	CUC 2033 N	CUC 2000				x						
ST 72-862 TOP	GCH8875	CUC 2033	CUC 2000			x	x						
ST 72-864 DOLBY	GCK4275	CUC 2033	CUC 2000				x						
ST 72-864 FR/DOLBY	GCK4375FB	CUC 2033 F	CUC 2000				x						
ST 72-865 NIC/TOP	GCG2975	CUC 2031 N	CUC 2000	x <sup>1)</sup>									from appr 6/98
ST 72-870 FR/TOP	GCI1775FB	CUC 2031 F	CUC 2000	x									
ST 84-8910 NIC/DOLBY	GCK4990	CUC 2080 N	CUC 2000				x						
ST 84-896 FR/TOP	GCH0190FB	CUC 2080 F	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
ST 84-896 FR/TOP	GCH0191FB	CUC 2080 F	CUC 2000			x	x						
ST 84-896 NIC/TOP	GCF8490	CUC 2080 N	CUC 2000	x		x <sup>2)</sup>	x <sup>2)</sup>						SER250/251 from appr. 4/99
ST 84-896 NIC/TOP	GCF8491	CUC 2080 N	CUC 2000			x	x						
ST 84-896 TOP	GCI4690	CUC 2080	CUC 2000			x	x						
ST 84-899 DOLBY	GCK5090	CUC 2080	CUC 2000				x						
ST 84-899 FR/DOLBY	GCK51...	CUC 2080 F	CUC 2000				x						

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
STATUS VISION MFW 82-720/9 DVD/GB	GCL9042GB	CUC 1931	Basic 3					x	x				or SNR-DTR 2000
Sydney 100 SE 7020 IDTV/LOG	GCF03...	CUC 1836	Basic ++		x								
Sydney 100 SE 7021 IDTV/PIP	GCH66...	CUC 1836	Basic ++		x								
Sydney 100/8 SE 7020/8 IDTV/LOG	GCF8241	CUC 1826	Basic +		x								19798 300 3200
Sydney 100/8 SE 7020/8 IDTV/LOG	GCF8285	CUC 1836	Basic ++		x								
Sydney 2000 SE 7230 DOLBY	GCL5592	CUC 1832	Basic 3					x	x				
Sydney SE 7230 DOLBY	GCI24...	CUC 1832	Basic 3					x	x				
Sydney SE 7230/8 DOLBY	GCK63...	CUC 1832	Basic 3					x	x				
Toronto SE 7215	GCK62...	CUC 1830	Basic ++		x								
Toronto SE 7215/8	GCK6175	CUC 1830	Basic ++		x								
Toronto SE 7216 DOLBY	GCK6875	CUC 1838	Digi 100						x				
Toronto SE 7216/8 DOLBY	GCK6775	CUC 1838	Digi 100						x				
Trento SE 7016/9 Ref/PIP	GCF0975	CUC 1952	Digi 6		x								19798 311 5000
Trento SE 7026 PAL PLUS	GCF7275	CUC 1952	Digi 6		x								19798 311 5000
Wien 100 SE 6320 IDTV/LOG	GCF0424	CUC 1826	Basic +		x								19798 300 3200
Wien 100 SE 6320 IDTV/LOG	GCF0481	CUC 1826	Basic +		x								19798 300 3200
Wien 100 SE 6320 IDTV/LOG	GCF04...	CUC 1836	Basic ++		x								
Wien SE 6340 DOLBY	GCM5500	CUC 1837	Digi 100						x				
XENTIA 55 ST 55-400 DOLBY	GCI8177	CUC 2021	CUC 2000									x	
XENTIA 55 ST 55-400 FR/DOLBY	GCK2177FB	CUC 2021 F	CUC 2000									x	
XENTIA 55 ST 55-400 NIC/DOLBY	GCI8177	CUC 2021 N	CUC 2000									x	
XENTIA 55 M 55-420/8 DOLBY	GCL8077	CUC 1807	Digi 100						x				
XENTIA 63 M 63-400/8	GCI0977	CUC 1836	Basic ++		x								
XENTIA 63 ST 63-400/4 DOLBY	GCL2677	CUC 2030 N	CUC 2000	x									
XENTIA 63 M 63-402/8 DOLBY	GCI8377	CUC 1837	Digi 100						x				
XENTIA 70 Flat MFW 70-430/8 DOLBY	GCK9677	CUC 1934	Digi 100						x				
XENTIA 70 Flat MFW 70-490/8 DOLBY	GCK0477	CUC 1930	Basic 3					x	x				
XENTIA 72 Flat MF 72-430 DOLBY	GCL6777	CUC 1838	Digi 100						x				
XENTIA 72 Flat MF 72-430/8 DOLBY	GCL6877	CUC 1838	Digi 100						x				

Type of set	Order number	Chassis	Chassis Family	SNR105	SER150ET	SER250	SER251	SER300	SER300a	SER520	SER2000	SER2001	Notes EPROM Version
XENTIA 72 Flat MF 72-490 DOLBY	GCI7577	CUC 1832	Basic 3					x	x				
XENTIA 72 Flat MF 72-490/8 DOLBY	GCI7477	CUC 1832	Basic 3					x	x				
XENTIA 72 M 72-400 DOLBY	GCH7977	CUC 1832	Basic 3					x	x				
XENTIA 72 M 72-400/8 DOLBY	GCH8077	CUC 1832	Basic 3					x	x				
XENTIA 72 M 72-420 DOLBY	GCL6977	CUC 1838	Digi 100						x				
XENTIA 72 M 72-420/8 DOLBY	GCL7077	CUC 1838	Digi 100						x				
XENTIA 82 Flat MFW 82-430/8 DOLBY	GCK9577	CUC 1935	Digi 100						x				
XENTIA 82 Flat MFW 82-490/9 DOLBY	GCI9977	CUC 1931	Basic 3					x	x				

- 1) - TV sets with software version 19798-515.xx are not refittable.
- 2) - From chassis index 29304-764.22 2L (12) the SER 250 / SER251 Retrofit Kit can be used.

Type of set	Order number	Chassis	Chassis Family	VGA1	VGA2	VGA3	VGA4	Notes
Atlanta SE 7220 IDTV/PIP	GCG52...	CUC 1830	Basic ++		x			
Atlanta SE 7250 a PIP/DOLBY	GCL11...	CUC 1832	Basic 3			x		
Atlanta SE 7250 PIP/DOLBY	GCI2575	CUC 1832	Basic 3			x		
Atlanta SE 7250/8 DOLBY	GCI73...	CUC 1832	Basic 3			x		
Berlin SE 70-100/8	GCF68...	CUC 1828	Basic ++		x			
Berlin SE 7027/8 PIP	GCH5175	CUC 1828	Basic ++		x			
Boston SE 7010 IDTV	GCI0475	CUC 1836	Basic ++		x			
Boston SE 7012 DOLBY	GCI2375	CUC 1837	Digi 100				x	or PIP7
DAVIO 70 M 70-290 IDTV	GCH3072	CUC 1836	Basic ++		x			
DAVIO 70 M 70-290/8 IDTV	GCH37...	CUC 1836	Basic ++		x			
DAVIO 70 M 70-292 DOLBY	GCI8572	CUC 1837	Digi 100				x	or PIP7
DAVIO 70 M 70-292/8 DOLBY	GCI84...	CUC 1837	Digi 100				x	or PIP7
Denver SE 8227/8 PIP	GCH7875	CUC 1929	Basic ++		x			
ELEGANCE 70 MW 70-150/8 DOLBY	GCI9142	CUC 1934	Digi 100				x	or PIP7
ELEGANCE 70 ST 70-300 DOLBY	GCK9742	CUC 1837	Digi 100				x	or PIP7
ELEGANCE 70 ST 70-300/8 DOLBY	GCL0642	CUC 1837	Digi 100				x	or PIP7
ELEGANCE 82 MW 82-150/8 DOLBY	GCI92...	CUC 1935	Digi 100				x	or PIP7
ELEGANCE 82 Flat MFW 82-3110 MV DOLBY	GCL8540	CUC 1935	Digi 100				x	or PIP7
Greenville 100 SE 7030	GCI5182	CUC 1836	Basic ++		x			
M 63-281 IDTV/LOG	GCE54...	CUC 1836	Basic ++		x			
M 63-281/8 IDTV/LOG	GCE60...	CUC 1836	Basic ++		x			
M 70-281 IDTV/LOG	GCF2885	CUC 1836	Basic ++		x			
M 70-281/8 IDTV/LOG	GCF2985	CUC 1836	Basic ++		x			
M 70-282	GCI89...	CUC 1836	Basic ++		x			
M 70-284 DOLBY	GCK6592	CUC 1837	Digi 100				x	or PIP7
M 72-01	GCL7875	CUC 1830	Basic ++		x			
M 72-100 a	GCG5475	CUC 1830	Basic ++		x			
M 72-100/8 a	GCG5375	CUC 1830	Basic ++		x			
M 72-109	GCL2375	CUC 1830	Basic ++		x			
M 72-410 Reference	GCE6175	CUC 1842	Digi 6	x				
M 72-798 IDTV	GCI7172	CUC 1830	Basic ++		x			

Type of set	Order number	Chassis	Chassis Family	VGA1	VGA2	VGA3	VGA4	Notes
M 84-210/8 a IDTV/LOG	GCG5590	CUC 1829	Basic ++		x			
M 84-211/8 IDTV	GCI1290	CUC 1829	Basic ++		x			
M 84-212/8 DOLBY	GCI9090	CUC 1839	Digi 100				x	or PIP7
MW 70-100/8	GCF26...	CUC 1828	Basic ++		x			
MW 70-269 PAL PLUS	GCF67...	CUC 1952	Digi 6	x				
MW 82-40/8	GCK2075	CUC 1929	Basic ++		x			
MW 82-50/8	GCH04...	CUC 1929	Basic ++		x			
ST 63-270/8 IDTV	GCG1685	CUC 1836	Basic ++		x			
ST 70-200 IDTV	GCH7075	CUC 1836	Basic ++		x			
ST 70-209	GCI6675	CUC 1836	Basic ++		x			
ST 70-250 IDTV	GCK0375	CUC 1836	Basic ++		x			
ST 70-260/8 IDTV	GCK1875	CUC 1836	Basic ++		x			
ST 70-270 IDTV	GCG1385	CUC 1836	Basic ++		x			
ST 70-270/8 IDTV	GCG1485	CUC 1836	Basic ++		x			
ST 70-278 IDTV	GCH0685	CUC 1836	Basic ++		x			
ST 70-280 IDTV	GCI03...	CUC 1836	Basic ++		x			
ST 70-282/8	GCI86...	CUC 1836	Basic ++		x			
ST 70-284/8 DOLBY	GCK6692	CUC 1837	Digi 100				x	or PIP7
ST 70-298 IDTV	GCL2175	CUC 1836	Basic ++		x			
ST 70-869 a IDTV	GCK2686	CUC 1836	Basic ++		x			
ST 70-869 IDTV	GCF0185	CUC 1836	Basic ++		x			
Sydney 100 SE 7020 IDTV/LOG	GCF03...	CUC 1836	Basic ++		x			
Sydney 100 SE 7021 IDTV/PIP	GCH66...	CUC 1836	Basic ++		x			
Sydney 100/8 SE 7020/8 IDTV/LOG	GCF8285	CUC 1836	Basic ++		x			
Sydney 2000 SE 7230 DOLBY	GCL5592	CUC 1832	Basic 3			x		
Sydney SE 7230 DOLBY	GCI24...	CUC 1832	Basic 3			x		
Sydney SE 7230/8 DOLBY	GCK63...	CUC 1832	Basic 3			x		
Toronto SE 7215	GCK62...	CUC 1830	Basic ++		x			
Toronto SE 7215/8	GCK6175	CUC 1830	Basic ++		x			



Type of set	Order number	Chassis	Chassis Family	VGA1	VGA2	VGA3	VGA4	Notes
Toronto SE 7216 DOLBY	GCK6875	CUC 1838	Digi 100				x	or PIP7
Toronto SE 7216/8 DOLBY	GCK6775	CUC 1838	Digi 100				x	or PIP7
Trento SE 7016/9 Ref/PIP	GCF0975	CUC 1952	Digi 6	x				
Trento SE 7026 PAL PLUS	GCF7275	CUC 1952	Digi 6	x				
Wien 100 SE 6320 IDTV/LOG	GCF04...	CUC 1836	Basic ++		x			
Wien SE 6340 DOLBY	GCM5500	CUC 1837	Digi 100				x	or PIP7
XENTIA 55 M 55-420/8 DOLBY	GCL8077	CUC 1807	Digi 100				x	or PIP7
XENTIA 63 M 63-400/8	GCI0977	CUC 1836	Basic ++		x			
XENTIA 63 M 63-402/8 DOLBY	GCI8377	CUC 1837	Digi 100				x	or PIP7
XENTIA 70 Flat MFW 70-430/8 DOLBY	GCK9677	CUC 1934	Digi 100				x	or PIP7
XENTIA 72 Flat MF 72-430 DOLBY	GCL6777	CUC 1838	Digi 100				x	or PIP7
XENTIA 72 Flat MF 72-430/8 DOLBY	GCL6877	CUC 1838	Digi 100				x	or PIP7
XENTIA 72 M 72-400 DOLBY	GCH7977	CUC 1832	Basic 3			x		
XENTIA 72 M 72-400/8 DOLBY	GCH8077	CUC 1832	Basic 3			x		
XENTIA 72 M 72-420 DOLBY	GCL6977	CUC 1838	Digi 100				x	or PIP7
XENTIA 72 M 72-420/8 DOLBY	GCL7077	CUC 1838	Digi 100				x	or PIP7
XENTIA 82 Flat MFW 82-430/8 DOLBY	GCK9577	CUC 1935	Digi 100				x	or PIP7

PIP Retrofitting Options

Type of set	Order number	Chassis	Chassis Family	PIP1	PIP2	PIP3	PIP3a	PIP4	PIP5	PIP6	PIP7	Notes
ARGANTO 70 Flat MFW 70-530/9 DPL	GCK7075	CUC 1930	Basic 3						x	x		
ARGANTO 70 MW 70-510/8 a DPL	GCL8475	CUC 1930	Basic 3						x	x		
ARGANTO 70 MW 70-510/8 DPL	GCH5975	CUC 1930	Basic 3						x	x		
ARGANTO 82 Flat MFW 82-530/9 DPL	GCK6975	CUC 1931	Basic 3						x	x		
ARGANTO 82 Flat MFW 82-530/9 DVD	GCL8775	CUC 1931	Basic 3						x	x		
ARGANTO 82 MW 82-510/8 a DPL	GCL83...	CUC 1931	Basic 3						x	x		
ARGANTO 82 MW 82-510/8 DPL	GCH58...	CUC 1931	Basic 3						x	x		
Atlanta Flat SE 7260 DOLBY	GCK6475	CUC 1832	Basic 3						x	x		
Atlanta SE 7250/8 DOLBY	GCI73...	CUC 1832	Basic 3						x	x		
Berlin SE 70-100/8	GCF68...	CUC 1828	Basic ++			x	x					from approx. 11/97
Boston SE 7010 IDTV	GCI0475	CUC 1836	Basic ++				x					
Boston SE 7012 DOLBY	GCI2375	CUC 1837	Digi 100								x	or VGA 4
DAVIO 55 M 55-290/8 IDTV	GCH47...	CUC 1806	Basic ++				x					
DAVIO 70 M 70-290 IDTV	GCH3072	CUC 1836	Basic ++				x					
DAVIO 70 M 70-290/8 IDTV	GCH37...	CUC 1836	Basic ++				x					
DAVIO 70 M 70-292 DOLBY	GCI8572	CUC 1837	Digi 100								x	or VGA 4
DAVIO 70 M 70-292/8 DOLBY	GCI84...	CUC 1837	Digi 100								x	or VGA 4
Denver SE 82-100 PAL PLUS	GCG30...	CUC 1984	Digi 6	x	x							
Denver SE 8216/9 PAL PLUS	GCF1590	CUC 1984	Digi 6	x	x							
ELEGANCE 70 MW 70-150/8 DOLBY	GCI9142	CUC 1934	Digi 100								x	or VGA 4
ELEGANCE 70 MW 70-2101 NIC/DOLBY	GCL8869	CUC 2059 N	CUC 2000					x				
ELEGANCE 70 ST 70-300 DOLBY	GCK9742	CUC 1837	Digi 100								x	or VGA 4
ELEGANCE 70 ST 70-300/8 DOLBY	GCL0642	CUC 1837	Digi 100								x	or VGA 4
ELEGANCE 82 MW 82-150/8 DOLBY	GCI92...	CUC 1935	Digi 100								x	or VGA 4
ELEGANCE 82 MW 82-2101 DOLBY	GCM2600	CUC 2058	CUC 2000					x				
ELEGANCE 82 MW 82-2101 NIC/DOLBY	GCL8969	CUC 2058 N	CUC 2000					x				
ELEGANCE 82 Flat MW 82-3110 MV/DOLBY	GCL8540	CUC 1935	Digi 100								x	or VGA 4
Greenville 7004 NIC/TOP	GCH5075	CUC 2050 N	CUC 2000					x				
M 55-280/8 a IDTV/LOG	GCG5175	CUC 1806	Basic ++			x	x					
M 63-281 IDTV/LOG	GCE54...	CUC 1836	Basic ++			x	x					

Type of set	Order number	Chassis	Chassis Family	PIP1	PIP2	PIP3	PIP3a	PIP4	PIP5	PIP6	PIP7	Notes
M 63-281/8 IDTV/LOG	GCE60...	CUC 1836	Basic ++			x	x					
M 70-281 IDTV/LOG	GCF2885	CUC 1836	Basic ++			x	x					
M 70-281/8 IDTV/LOG	GCF2985	CUC 1836	Basic ++			x	x					
M 70-282	GCI89...	CUC 1836	Basic ++				x					
M 70-284 DOLBY	GCK6592	CUC 1837	Digi 100								x	or VGA 4
M 72-01	GCL7875	CUC 1830	Basic ++				x					
M 72-100 a	GCG5475	CUC 1830	Basic ++			x	x					
M 72-100/8 a	GCG5375	CUC 1830	Basic ++			x	x					
M 72-109	GCL2375	CUC 1830	Basic ++				x					
M 72-410 Reference	GCE6175	CUC 1842	Digi 6	x	x							
M 72-410/9 Reference	GCE6275	CUC 1842	Digi 6	x	x							
M 72-798 IDTV	GCI7172	CUC 1830	Basic ++				x					
M 82-269 PAL PLUS/LOG	GCC7290	CUC 1983	Digi 6	x	x							
M 82-269/9 Reference	GCF4090	CUC 1984	Digi 6	x	x							
M 84-210/8 a IDTV/LOG	GCG5590	CUC 1829	Basic ++			x	x					
M 84-211/8 IDTV	GCI1290	CUC 1829	Basic ++			x	x					
M 84-212/8 DOLBY	GCI9090	CUC 1839	Digi 100								x	or VGA 4
Melbourne SE 7210 a NIC/TOP	GCG05...	CUC 2051 N	CUC 2000					x				
MW 70-100/8	GCF26...	CUC 1828	Basic ++			x	x					from approx. 11/97
MW 70-269 PAL PLUS	GCF67...	CUC 1952	Digi 6	x	x							
MW 70-2690 FR/TOP	GCH1275FB	CUC 2059 F	CUC 2000					x				
MW 70-2690 NIC/TOP	GCF9875	CUC 2059 N	CUC 2000					x				
MW 70-2699 FR/TOP	GCI13...FB	CUC 2059 F	CUC 2000					x				
MW 70-2699 NIC/FT	GCK2475GB	CUC 2059 N	CUC 2000					x				
MW 70-2699 NIC/TOP	GCI11...	CUC 2059 N	CUC 2000					x				
MW 70-2699 TOP	GCI4875	CUC 2059	CUC 2000					x				
MW 70-2700 DOLBY	GCK4075	CUC 2059	CUC 2000					x				
MW 70-2700 DPL/FT	GCI20...	CUC 2059 N	CUC 2000					x				
MW 70-2700 FR/DOLBY	GCK41...	CUC 2059 F	CUC 2000					x				
MW 70-2700 NIC/DOLBY	GCL9800	CUC 2059 N	CUC 2000					x				

Type of set	Order number	Chassis	Chassis Family	PIP1	PIP2	PIP3	PIP3a	PIP4	PIP5	PIP6	PIP7	Notes
MW 70-2701 DOLBY/FT	GCL4292GB	CUC 2059 N	CUC 2000					x				
MW 70-2705 DPL/FT	GCL4192GB	CUC 2059 N	CUC 2000					x				
MW 70-2710 NIC/DOLBY	GCK3975	CUC 2059 N	CUC 2000					x				
MW 70-3699 DOLBY/FT	GCL3992GB	CUC 2059 N	CUC 2000					x				
MW 70-3699 NIC/FT	GCK7675GB	CUC 2059 N	CUC 2000					x				
MW 70-3700 DPL/FT	GCK7775GB	CUC 2059 N	CUC 2000					x				
MW 82-100/9	GCF43...	CUC 1984	Digi 6	x	x							
MW 82-2690 NIC/TOP	GCF9775	CUC 2058 N	CUC 2000					x				
MW 82-2699 FR/TOP	GCI14...FB	CUC 2058 F	CUC 2000					x				
MW 82-2699 NIC/FT	GCK2575GB	CUC 2058 N	CUC 2000					x				
MW 82-2699 NIC/TOP	GCI10...	CUC 2058 N	CUC 2000					x				
MW 82-2699 TOP	GCI4775	CUC 2058	CUC 2000					x				
MW 82-2700 DOLBY	GCK3775	CUC 2058	CUC 2000					x				
MW 82-2700 DPL/FT	GCI19...	CUC 2058 N	CUC 2000					x				
MW 82-2700 FR/DOLBY	GCK3875FB	CUC 2058 F	CUC 2000					x				
MW 82-2701 DOLBY/FT	GCL4092GB	CUC 2058 N	CUC 2000					x				
MW 82-2705 DPL/FT	GCL4392GB	CUC 2058 N	CUC 2000					x				
MW 82-2710 NIC/DOLBY	GCK36...	CUC 2058 N	CUC 2000					x				
MW 82-3699 DOLBY/FT	GCL3892GB	CUC 2058 N	CUC 2000					x				
MW 82-3699 NIC/FT	GCK7875GB	CUC 2058 N	CUC 2000					x				
MW 82-3700 DPL/FT	GCK7975GB	CUC 2058 N	CUC 2000					x				
MW 82-40/8	GCK2075	CUC 1929	Basic ++				x					
MW 82-50/8	GCH04...	CUC 1929	Basic ++			x	x					
ST 63-270/8 IDTV	GCG1685	CUC 1836	Basic ++			x	x					
ST 70-200 IDTV	GCH7075	CUC 1836	Basic ++			x	x					
ST 70-209	GCI6675	CUC 1836	Basic ++				x					
ST 70-250 IDTV	GCK0375	CUC 1836	Basic ++				x					
ST 70-260/8 IDTV	GCK1875	CUC 1836	Basic ++				x					
ST 70-270 IDTV	GCG1385	CUC 1836	Basic ++			x	x					
ST 70-270/8 IDTV	GCG1485	CUC 1836	Basic ++				x					

Type of set	Order number	Chassis	Chassis Family	PIP1	PIP2	PIP3	PIP3a	PIP4	PIP5	PIP6	PIP7	Notes
ST 70-278 IDTV	GCH0685	CUC 1836	Basic ++			x	x					
ST 70-280 IDTV	GCI03...	CUC 1836	Basic ++				x					
ST 70-282/8	GCI86...	CUC 1836	Basic ++				x					
ST 70-284/8 DOLBY	GCK66...	CUC 1837	Digi 100								x	or VGA 4
ST 70-298 IDTV	GCL2175	CUC 1836	Basic ++				x					
ST 70-810 DPL	GCH0775	CUC 2050 N	CUC 2000					x				
ST 70-819 NIC/TOP	GCH4675	CUC 2050 N	CUC 2000					x				
ST 70-829 NIC/DOLBY	GCL2475	CUC 2050 N	CUC 2000					x				
ST 70-869 a IDTV	GCK2686	CUC 1836	Basic ++				x					
ST 70-869 IDTV	GCF0185	CUC 1836	Basic ++				x					
ST 70-870 FR/DPL	GCH0872FB	CUC 2050 F	CUC 2000					x				
ST 72-860 a NIC/TOP	GCG0675	CUC 2051 N	CUC 2000					x				
ST 84-8910 NIC/DOLBY	GCK4990	CUC 2080 N	CUC 2000					x				
ST 84-896 FR/TOP	GCH01...FB	CUC 2080 F	CUC 2000					x				
ST 84-896 NIC/TOP	GCF84...	CUC 2080 N	CUC 2000					x				
ST 84-896 TOP	GCI4690	CUC 2080	CUC 2000					x				
ST 84-899 DOLBY	GCK5090	CUC 2080	CUC 2000					x				
ST 84-899 FR/DOLBY	GCK51...	CUC 2080 F	CUC 2000					x				
Sydney 100 SE 7020 IDTV/LOG	GCF03...	CUC 1836	Basic ++			x	x					
Sydney 100/8 SE 7020/8 IDTV/LOG	GCF8285	CUC 1836	Basic ++			x	x					
Sydney 2000 SE 7230 DOLBY	GCL5592	CUC 1832	Basic 3						x	x		
Sydney SE 7230 DOLBY	GCI24...	CUC 1832	Basic 3						x	x		
Sydney SE 7230/8 DOLBY	GCK63...	CUC 1832	Basic 3						x	x		
Toronto SE 7215	GCK62...	CUC 1830	Basic ++				x					
Toronto SE 7215/8	GCK6175	CUC 1830	Basic ++				x					
Toronto SE 7216 DOLBY	GCK6875	CUC 1838	Digi 100								x	or VGA 4
Toronto SE 7216/8 DOLBY	GCK6775	CUC 1838	Digi 100								x	or VGA 4
Trento SE 7026 PAL PLUS	GCF7275	CUC 1952	Digi 6	x	x							
Wien 100 SE 6320 IDTV/LOG	GCF04...	CUC 1836	Basic ++			x	x					
Wien SE 6340 DOLBY	GCM5500	CUC 1837	Digi 100								x	or VGA 4

Type of set	Order number	Chassis	Chassis Family	PIP1	PIP2	PIP3	PIP3a	PIP4	PIP5	PIP6	PIP7	Notes
XENTIA 55 M 55-420/8 DOLBY	GCL8077	CUC 1807	Digi 100								x	or VGA 4
XENTIA 63 M 63-400/8	GCI0977	CUC 1836	Basic ++				x					
XENTIA 63 M 63-402/8 DOLBY	GCI8377	CUC 1837	Digi 100								x	or VGA 4
XENTIA 70 Flat MFW 70-430/8 DOLBY	GCK9677	CUC 1934	Digi 100								x	or VGA 4
XENTIA 70 Flat MFW 70-490/8 DOLBY	GCK0477	CUC 1930	Basic 3						x	x		
XENTIA 70 Flat MFW 70-490/8 GB/DOLBY	GCL9500	CUC 1930	Basic 3						x	x		
XENTIA 72 Flat MF 72-430 DOLBY	GCL6777	CUC 1838	Digi 100								x	or VGA 4
XENTIA 72 Flat MF 72-430/8 DOLBY	GCL6877	CUC 1838	Digi 100								x	or VGA 4
XENTIA 72 Flat MF 72-490 DOLBY	GCI7577	CUC 1832	Basic 3						x	x		
XENTIA 72 Flat MF 72-490/8 DOLBY	GCI7477	CUC 1832	Basic 3						x	x		
XENTIA 72 M 72-400 DOLBY	GCH7977	CUC 1832	Basic 3						x	x		
XENTIA 72 M 72-400/8 DOLBY	GCH8077	CUC 1832	Basic 3						x	x		
XENTIA 72 M 72-420 DOLBY	GCL6977	CUC 1838	Digi 100								x	or VGA 4
XENTIA 72 M 72-420/8 DOLBY	GCL7077	CUC 1838	Digi 100								x	or VGA 4
XENTIA 82 Flat MFW 82-430/8 DOLBY	GCK9577	CUC 1935	Digi 100								x	or VGA 4
XENTIA 82 Flat MFW 82-490/9 DOLBY	GCI9977	CUC 1931	Basic 3						x	x		
XENTIA 82 Flat MFW 52-490/9 GB/DOLBY	GCL9400	CUC 1931	Basic 3						x	x		

## DPL Retrofitting Options

Type of set	Order number	Chassis	Chassis Family	DPL1	DPL2
ARGANTO 70 MW 70-500 IRDT	GCI3952GB	CUC 2059 D	CUC 2000		x
ARGANTO 70 MW 70-600 IRDT	GCK8052GB	CUC 2059 D	CUC 2000		x
ARGANTO 82 MW 82-500 IRDT	GCI3752GB	CUC 2058 D	CUC 2000		x
ARGANTO 82 MW 82-600 IRDT	GCK8252GB	CUC 2058 D	CUC 2000		x
DAVIO 70 ST 70-850 NIC/PIP	GCH1072	CUC 2050 N	CUC 2000		x
DAVIO 70 ST 70-853 NIC/PIP	GCK0272	CUC 2050 N	CUC 2000		x
Denver SE 82-100 PAL PLUS	GCG30...	CUC 1984	Digi 6	x	
Denver SE 8216/9 PAL PLUS	GCF1590	CUC 1984	Digi 6	x	
Denver SE 8216/9 Ref./PIP	GCF0890	CUC 1984	Digi 6	x	
Greenville 7004 NIC/TOP	GCH5075	CUC 2050 N	CUC 2000		x
M 72-410 Reference	GCE6175	CUC 1842	Digi 6	x	
M 72-410 Reference/PIP	GCF60...	CUC 1842	Digi 6	x	
M 72-410/9 Reference	GCE6275	CUC 1842	Digi 6	x	
M 82-269/9 Reference	GCF4090	CUC 1984	Digi 6	x	
M 95-410/9 Reference/PIP	GCE6390	CUC 1894	Digi 6	x	
M 95-411/9 Reference/PIP	GCG4890	CUC 1894	Digi 6	x	
Melbourne SE 7210 a NIC/TOP	GCG05...	CUC 2051 N	CUC 2000		x
MW 70-269 PAL PLUS	GCF67...	CUC 1952	Digi 6	x	
MW 70-2690 FR/TOP	GCH1275FB	CUC 2059 F	CUC 2000		x
MW 70-2690 NIC/TOP	GCF9875	CUC 2059 N	CUC 2000		x
MW 70-2699 FR/TOP	GCI13...FB	CUC 2059 F	CUC 2000		x
MW 70-2699 NIC/FT	GCK2475GB	CUC 2059 N	CUC 2000		x
MW 70-2699 NIC/TOP	GCI11...	CUC 2059 N	CUC 2000		x
MW 70-2699 TOP	GCI4875	CUC 2059	CUC 2000		x
MW 70-3699 NIC/FT	GCK7675GB	CUC 2059 N	CUC 2000		x
MW 82-100/9	GCF43...	CUC 1984	Digi 6	x	
MW 82-2690 NIC/TOP	GCF9775	CUC 2058 N	CUC 2000		x
MW 82-2699 FR/TOP	GCI14...FB	CUC 2058 F	CUC 2000		x
MW 82-2699 NIC/FT	GCK2575GB	CUC 2058 N	CUC 2000		x
MW 82-2699 NIC/TOP	GCI10...	CUC 2058 N	CUC 2000		x
MW 82-2699 TOP	GCI4775	CUC 2058	CUC 2000		x
MW 82-3699 NIC/FT	GCK7875GB	CUC 2058 N	CUC 2000		x
ST 70-819 NIC/TOP	GCH4675	CUC 2050 N	CUC 2000		x
ST 72-700 TOP	GCH6575	CUC 2051 N	CUC 2000		x
ST 72-860 a NIC/TOP	GCG0675	CUC 2051 N	CUC 2000		x
ST 84-896 FR/TOP	GCH01...FB	CUC 2080 F	CUC 2000		x
ST 84-896 NIC/TOP	GCF84...	CUC 2080 N	CUC 2000		x
ST 84-896 TOP	GCI4690	CUC 2080	CUC 2000		x
Trento SE 7016/9 Ref/PIP	GCF0975	CUC 1952	Digi 6	x	
Trento SE 7026 PAL PLUS	GCF7275	CUC 1952	Digi 6	x	

TV

## Special Functions of Colour Television Receivers (Options) - 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.
<b>Single-digit programme indication</b> from 1-9 (no effect on AV positions). The short-time flashing of the programme indication after having changed the programme is omitted.	1
<b>Station ident</b> (abbreviated station name) display: off/ short-time on changing the programme/ continuous	2
<b>Switching on with "AV"</b> ("1 AV").	3
<b>French cable channel spacing.</b> 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
<b>French Band I channels with +6.5 MHz sound carrier.</b> 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 set operated in a cable installation.	5
<b>Default values (emergency data set).</b> Loading of average values for brightness, volume, contrast, TINT, picture geometry etc. if the stored analogue values are lost.	6
<b>Dealer Automatic Programming</b> with IR-Data-Programmer <b>IDP 2</b>	7
<b>Sleep function.</b> Cancelling the Sleep function which is activated approx. 10 minutes after the end of the TV programme, the end of the tape or after any signal failure. This option cannot be stored but must be programmed whenever the TV set is switched on.	8
<b>Limitation of the programme positions</b> when stepping through with " <b>P +</b> ".	9
<b>Hotel Mode</b> 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 TV set.	10
<b>Child lock</b> (switch-on lock/programme lock/electronic combination lock)	11
<b>No display of the bars</b> when setting the volume, contrast and brightness (" <b>OSD OFF</b> ").	12
<b>Peaking</b> Changing the picture sharpness.	13
<b>Luminance delay</b> correction (changing the Y-delay).	14
<b>Software status</b> (calling up the EPROM version number).	15
<b>PIP</b> settings.	16
<b>Forced PAL/Secam/NTSC</b> at 50 or 60 Hz.	17
<b>OSD position</b> (horizontal shifting of the display on the screen).	18
<b>ATS / Auto Tuning System</b> (starting the automatic <b>station search</b> ).	19
Switching the HIFI-MODE to <b>linear/ controlled</b>	20
Changing the <b>menu language</b>	21
Setting the <b>AV time constant</b> in Peri mode (e.g. Peri decimal point is set)	22



Special Function (option)	Code No.
Setting the <b>Peri Bit</b> (decimal point). Example: "P. 1". Important for Premiere-Decoder for example.	23
<b>Forced mono storable</b> on a per-programme basis.	24
<b>White level</b> correction.	25
<b>Entering default values.</b> This option is particularly important on replacement of the memory-IC.	26
<b>ATS Reset</b> This option starts the automatic station search the next time the TV set is switched on via the menu Language -> Country -> Cable/Aerial or Satellite (only with SAT module) and "OK".	27
Switching off the <b>blue screen background</b>	28
Deactivating the <b>economy mains switch</b>	29
Activating/deactivating <b>Demo Mode</b>	30
Changing the <b>colour of the menu background</b> (white/light-blue)	31
<b>Cancelling the band limits</b> With TV sets with VST tuning module, this option cancels any band limit values stored in the memory EEPROM. This function is to be carried out on every replacement of the memory to ensure that all channels within the complete frequency range are tuned in.	32

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

We distinguish between 12 groups of chassis which are designated letters **A** to **L**:

- A: Models with CUC 2003/2005
- B: Models with CUC 1800/1821/1822/1824/1851/1852/1881/1892 (Digi 4/5)
- C: Models with CUC 6300/6301/6310
- D: Models with CUC 6360/6365/6380/6450/6460/6469
- E: Models with CUC 7300/7302
- F: Models with CUC 6330/6331/7350
- G: Models with CUC 7301
- H: Models with CUC 1805/1825(Digi Basic),1826/1827 (Basic+)
- I: Models with CUC 1842/1894/1952/1962/1983/1984 (Digi 6) 1806/1828/1829/1830/  
1836/1929 (Digi Basic++)
- J: Models with CUC 7303/7305
- K: Models with CUC 2020/2021/2030/2031/2032/2033/2035/2050/2051/2058/2059/2080
- L: Models with CUC 1832/1930/1931 (Basic 3)

Code No.	Model Group	Sequence of Operations
1	B	See operating instructions. The user is guided by the menu.
	A/C to I/L	Enter channel "C00" on programme position "10".
	J/K	TV groups J and K with VST-tuning: Enter "00" under "Band selection" in the manual tuning menu. TV group K with PLL-tuning: Enter channel "C00" on programme position "10".
2	C	Off via "OSD OFF" (menu guide), "permanent" with remote control button "i".
	B	Menu guide: "i", "Special functions", "Settings", "Station ident short - permanent* - off". * only models without separate display outside the screen
	H/I	Display of station ident On: press button "i", then do not operate any other button within a period of about 6s. Display Off: press button "i" once.
	A/K/L	Display of station ident On: press button "i", then do not operate any other button within a period of about 6s. Display Off: press button "i" and press it once again within a period of about 6s.
3	B	Menu guide: "i", "Special functions", "Service", "Switch on with...".
	D	Menu guide: "i", "Special functions", "Settings", "Switch on with...".
	A/H/I/K/L	Menu guide: "i", "Dialog Center", "Special functions", "TV on with...".
4	C	Menu guide: "Programmes" 4th position ("S").
	A/B/D/E/H/I/K/L	Under ATS menu option "Adjust country" select "F"/"France".
	F	Only multi-system TVs: Select "FR ON" in the ATS menu.

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

Code No.	Model Group	Sequence of Operations
11	C	Menu guide: "Timer and key symbol", "OK", with the buttons ▼, ▲ select the key symbol which will turn red, "OK", enter a 4-digit number, "OK", "TV". The child lock remains active even if it has been unlocked repeatedly (entering the code number). To cancel it: enter the code number via the menu (see above) or press the buttons ►, ◀, ▼, ▲, "OK" in this order.
	B/D	Menu guide: sub-menu "Timer-Security-System"; "OK", enter a 4-digit code number and the switch-off time. To cancel it: repeat the steps described under "A/C".
	A/H/I/K	Menu guide: "i", "Dialog Center", "Child lock", enter a 4-digit number. To cancel it: repeat the steps described under "A/C". Model group K and Digi Basic++: general reset with number "7038". Model group L: general reset with number "7038580"
12	C	Sub-menu "SPECIAL FUNCTIONS", "OSD ON OFF", "OK".
	B/D/E	Menu guide: "i", "Special functions", "Settings", "Picture/Sound options on/off".
	H/I/L	Menu guide: "i", "Dialog Center", "Special functions", "Picture/Sound options on/off" (group I/L: "visible/invisible").
13	B	Menu guide: "i", "Picture settings" or "Picture menu", "Peaking".
	H/I/L	"Eye" button (red text button), "Personal", "OK"
14	B	Menu guide: "i", "Special functions", "Service" or "Settings", "Luma delay".
	H/I/L	Menu guide: "i", "Dialog Center", "Service", "Colour match.."
15	A/K/L	Buttons "i" -> "OK" and "AUX". Dependent on the component assembly, the type of mask computer or the EPROM version number is indicated.
	B/D/E/H/I	Buttons "i" -> "OK" and "AUX". The figure following the decimal point indicates the EPROM version.
16	B	Menu guide: "i", "Special functions", "Settings", "PIP frame" and "PIP brightness".
	I/K	PIP adjustment mode: depress and hold the "PIP" button while switching the TV set on with the mains switch. Change the PIP position using the buttons "L-", "L+", "P-", "P+" (Basic++ models: button "PIP" to change to left/right, "L-", "L+" for left/right fine adjustment. Store with "OK".
	L	PIP adjustment mode: depress and hold the "PIP" button while switching the TV set on with the mains switch. Position the PIP (top/bottom/left/right) with the "Format button". Fine adjustment of the PIP is possible with the buttons "L-", "L+", "P-", "P+". Store with "OK".

Code No.	Model Group	Sequence of Operations
17	B	Menu guide: "i", "TV Station Table". Under "Channel ident" put a comma in the 4th place and enter the following letters and figures in the 5th and 6th place: PB for PAL, PH for PAL H, PN for PAL N, P4 for PAL 4.43 MHz, BW for Black/White, NM for NTSC M, PG for PAL G, PI for PAL I, PM for PAL M, SE for SECAM and N4 for NTSC 4.43MHz.
	D/H	Menu guide: "i", "TV Station Table". Under "Channel ident" put a comma in the 2nd place and enter the following letters and figures in the 3rd and 4th place: PA for PAL, SE for Secam, N3 for NTSC 3.58 MHz, N4 for NTSC 4.43 MHz. Forced settings for the AV programme positions must be entered in the "AV Settings" menu. In this menu, the "AUX" button activates the line for entering the desired data. (Model group H: "i", "Dialog Center", "TV-Programme-Chart", move the yellow bar to "AV" and activate with the "blue button").
	I	Menu guide: "i", "TV-Programme-Chart". Under "Station name" put a comma in the 4th/(2nd) place and enter the following letters and figures in the 5th/(3rd) and 6th/(4th) place: PB for PAL, NM for NTSC 3.58, SE for Secam, N4 for NTSC 4.43, PM for PAL M, PN for PAL N, P6 for PAL 60Hz (expressions in parentheses for models with Digi Basic++ chassis).
	A/K	Multi-system TV sets can be forced into a Standard on a per-programme basis via the Service menu, menu option "Color Px".
	L	Menu guide: "AUX", "green button". Under the menu option "Standard" it is possible to select the chroma standard.
18	C/J	Depress and hold the remote control button "i" while switching on with the mains button. Set the OSD position in the menu and store with "OK".
	A/K	Depress and hold the remote control button "i" while switching on with the mains button. Set the OSD position in the menu. To store the position: In menu line "End" select "with mem." and confirm with OK.
19	B/D/E/F/G/J	Depress and hold the remote control button "P/C" for about 4 seconds.
	I	Menu guide: "i", "OK", menu option "Search for new TV programmes".
	A/K/L	Menu guide: "i", "OK", menu option "Automatic Tuning System"/"Automatic Programming".
20	B	Press the remote control button $\nabla$ , "OK", "HIFI output variable - linear - off".
	L	Menu guide: "blue button", "OK", menu option "Audio output" controllable/linear.
21	B/C	Menu guide (refer also to operating instructions)
	D/E/H/I	Calling up the ATS system -> Language can be selected
	A/K	Menu guide: "i", "OK" "Adjust language"
	L	Menu guide: "i", "OK", menu option "Change language".

Code No.	Model Group	Sequence of Operations
22	B	Select the Station Table in the menu and enter the station name (6 places). For this, begin with the letters "AV" in the first two places (e.g. AV K36). Attention! The time constant changes only if AV is entered in the first two places. Additionally, the on screen display must not be switched off completely but must be set to short-time or permanent.
	D/E/H/I	Menu guide: "i", "TV Station Table". Under "Channel ident" put a comma in the 2nd (4th) place and enter the letters "AV" in the 3rd (5th) and 4th (6th) place. Expressions in parentheses apply to model group I.
	L	Menu guide: "i", "OK", "Programme Chart", blue button. Put a comma in the 4th place and enter the letters "AV" in the 5th and 6th place.
23	C	Select the corresponding programme position. Menu guide: "i", "OK", "SPECIAL FUNCTIONS", "DESCRAMBLER", "ON". To cancel it: "i", "OK", "SPECIAL FUNCTIONS", "DESCRAMBLER", "OFF".
	B	Press the buttons "AUX" and "0" in the current programme position. By repeatedly pressing the button "0" the following descrambler operating modes can be selected: "Descrambler off", "Descrambler on Stereo", "Descrambler on Mono-L" and "Descrambler on Mono-R". The selected mode is stored automatically.
	D/E	Menu guide: "i", "OK", "Special functions", "AV Settings", "AV 1" and select "Decoder"..
	F	Button "P/C" -> "DEC". Set to "ON".
	H/I	Menu guide: "i", "Dialog Center", "TV-Programme-Chart", "AUX" button.
	J	In the Tune menu (called up with "i"+"OK") set "Dec" to "ON".
	A/K	Select the desired programme position. With "i", "OK", call up the "Special functions" menu. Set "Decoder" to "ON".
	L	Menu guide: "i", "OK", "Service", "Decoder". This option makes it possible to switch the decoder off/on for all programme positions.
24	B/I	Menu guide: "i", "TV Station Table". Put a comma in the fourth (Digi Basic++: second) place of the station ident and enter the letters "MO" in the last two places.
	D/H	Menu guide: "i", "TV Station Table". Put a comma in the second place of the station ident and enter the letters "MO" in the last two places.
	K	Ear button (blue) -> "Sound Mono" and confirm with "OK".
	L	Menu guide: "i", "OK", "TV-Programme-Chart", blue button. Put a comma in the 4th place and enter the letters "MO" in the 5th and 6th place.

Code No.	Model Group	Sequence of Operations
25	B	Menu guide: "i", "Special functions", "Service", code number "8500", "White balance" "OK". The components Green/Red and Blue/Red can be adjusted (the white area in the middle of the picture must not be coloured).
	D	Press and hold down the "P/C" remote control button and switch the TV set on with the mains button. Select "White balance" in the menu. The components Green/Red and Blue/Red can be adjusted.
	A/H/I/K/L	Menu guide: "i", "OK", "Service", "Service Code", enter "8500". Select "White adjustment". The components Green/Red and Blue/Red can be adjusted.
26	C	Depress and hold down the remote control button while switching on with the mains button. Menu guide: "Horizontal Position", "OK", "OK". Press button "i" to leave the menu.
	D/H	Depress and hold down the remote control button "P-" while switching on with the mains button. (This is only possible once when replacing the NVM or $\mu$ P). To cancel the volume offset: Depress and hold down the remote control button "AUX" while switching on with the mains button.
	E	Depress and hold down the remote control button "P-" and switch the TV set on from Standby with the "P+" on the local keyboard. (This is only possible once when replacing the NVM or $\mu$ P). To cancel the volume offset: Depress and hold down the remote control button "AUX" while switching on with the mains button.
	I	Resetting the factory default values: buttons "AUX", "OK"
	K	Depress and hold down the remote control button "P-" while switching on with the mains button. Additionally, on replacement of the memory, it is necessary to deactivate the Hotel Mode (point 10), to cancel the band limit values (VST models, see point 32), to adjust the AGC, and also the AFC dependent on the type of the fitted video processor.
	A	Depress and hold down the remote control button "P-" while switching on with the mains button. Additionally, on replacement of the memory, it is necessary to deactivate the Hotel Mode (point 10) and to adjust the AGC.
	L	Depress and hold down the "P-" button on the TV set while switching on with the mains button.
27	A/B/D/H/I/K/L	Depress and hold down the "L+" button on the remote control handset (model group L: on the TV) while switching on with the mains button.
	E	Depress and hold down the remote control button "L+" while switching the TV set on from Standby using button "P+" on the local keyboard.

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



## Service Manuals sorted by TV sets

TV Set	Part Number	Kind of Manual	Chassis
ARGANTO 70 FLAT MFW70-530/9 DPL (VNM)	72010 024 9000 72010 024 9400 72010 024 9500	Service Manual Supplement 4 Supplement 5	CUC 1930
ARGANTO 70 MW70-500 IRDT (VNM)	72010 025 9000	Service Manual	CUC 2059 D
ARGANTO 70 MW70-505 IRDT/DPL (VNM)	72010 025 9000	Service Manual	CUC 2059 D
ARGANTO 70 MW70-510/8 A DPL (VNM)	72010 024 9000 72010 024 9400 72010 024 9500	Service Manual Supplement 4 Supplement 5	CUC 1930
ARGANTO 70 MW70-510/8 DPL (VNM)	72010 024 9000	Service Manual	CUC 1930
ARGANTO 70 MW70-600 IRDT (VNM)	72010 025 9000 72010 025 9100	Service Manual Supplement 1	CUC 2059D
ARGANTO 70 MW70-605 IRDT/DPL (VNM)	72010 025 9000 72010 025 9100	Service Manual Supplement 1	CUC 2059D
ARGANTO 82 FLAT MFW82-530/9 DPL (VNM)	72010 024 9000 72010 024 9400 72010 024 9500	Service Manual Supplement 4 Supplement 5	CUC 1931
ARGANTO 82 MW82-500 IRDT (VNM)	72010 025 9000	Service Manual	CUC 2058 D
ARGANTO 82 MW82-505 IRDT/DPL (VNM)	72010 025 9000	Service Manual	CUC 2058 D
ARGANTO 82 MW82-510/8 A DPL (VNM)	72010 024 9000 72010 024 9400 72010 024 9500	Service Manual Supplement 4 Supplement 5	CUC 1931
ARGANTO 82 MW82-510/8 DPL (VNM)	72010 024 9000	Service Manual	CUC 1931
ARGANTO 82 MW82-520/9 PALPLUS	72010 019 9000 72010 019 9100 72010 019 9200 72010 019 9400 72010 019 9500	Service Manual Supplement 1 Supplement 2 Supplement 4 Supplement 5	CUC 1983
ARGANTO 82 MW82-600 IRDT (VNM)	72010 025 9000 72010 025 9100	Service Manual Supplement 1	CUC 2058D
ARGANTO 82 MW82-605 IRDT/DPL (VNM)	72010 025 9000 72010 025 9100	Service Manual Supplement 1	CUC 2058D
ATLANTA SE7020 IDTV/LOG	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2	CUC 1826
ATLANTA SE7220 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
ATLANTA SE7220 IDTV/PIP	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1600	Service Manual Supplement 2 Supplement 4 Supplement 6	CUC 1830
ATLANTA SE7250 A PIP/DOLBY (VNA)	72010 024 9000 72010 024 9300	Service Manual Supplement 3	CUC 1832
ATLANTA SE7250 A PIP/DOLBY (VNM)	72010 024 9000 72010 024 9300	Service Manual Supplement 3	CUC 1832
ATLANTA SE7250 A PIP/DOLBY (VNX)	72010 024 9000 72010 024 9300 72010 024 9400 72010 024 9700	Service Manual Supplement 3 Supplement 4 Supplement 7	CUC 1832
ATLANTA SE7250 PIP DOLBY (VNM)	72010 024 9000	Service Manual	CUC 1832
ATLANTA SE7250/8 DOLBY (VNG)	72010 024 9000 72010 024 9300 72010 024 9400 72010 024 9700	Service Manual Supplement 3 Supplement 4 Supplement 7	CUC 1832
ATLANTA SE7250/8 DOLBY (VNM)	72010 024 9000	Service Manual	CUC 1832
ATLANTA SE7250/8 DOLBY (VNX)	72010 024 9000 72010 024 9300	Service Manual Supplement 3	CUC 1832
ATLANTA SE7289 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
BERLIN SE70-100/8	72010 021 1000	Service Manual	CUC 1828
BERLIN SE7027/8 PIP	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1600	Service Manual Supplement 2 Supplement 4 Supplement 6	CUC 1828
BERLIN SE7050/8 PIP/DOLBY	72010 024 9000 72010 024 9100	Service Manual Supplement 1	CUC 1930
BERLIN SE7290 IDTV LOG	72010 014 2000 72010 014 2100 72010 014 2200 72010 014 2300 72010 014 2400 72010 014 2500 72010 014 2600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 1822
BOSTEN SE7010 IDTV	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400 72010 021 1700	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 7	CUC 1836
BOSTON SE7010 IDTV	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400 72010 021 1700	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 7	CUC 1836
BOSTON SE7090 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
BOSTON SE7090 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
BOSTON SE7090/8 I DTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
BOSTON SE7090/8 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
BOSTON ST270 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
BOSTON ST270/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
COPENHAGEN ST763 TOP/LOG	72010 015 0000 72010 015 0100 72010 015 0200 72010 015 0300 72010 015 0400 72010 015 0500 72010 015 0600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 6360
COPENHAGEN ST763/9 TOP	72010 015 0000 72010 015 0100 72010 015 0200 72010 015 0300 72010 015 0400 72010 015 0500	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5	CUC 6360
DAVIO 55 M55-290/8 IDTV	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1900	Service Manual Supplement 2 Supplement 4 Supplement 9	CUC 1806
DAVIO 55 ST55-852 Dolby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021
DAVIO 55 ST55-855 NIC/TOP (VNM)	72010 024 7000 72010 024 7200	Service Manual Supplement 2	CUC 2021 N
DAVIO 55 ST55-870 FR/TOP (VNM)	72010 027 2000	Service Manual	CUC 2021F
DAVIO 55 ST55-880 FR/DOLBY (VNM)	72010 027 2000 72010 027 2100	Service Manual Supplement 1	CUC 2021 F

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
DAVIO 55 ST55.852 Dolby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021N
DAVIO 70 M70-290 IDTV (VNM)	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1900	Service Manual Supplement 2 Supplement 4 Supplement 9	CUC 1836
DAVIO 70 M70-290/8 IDTV (VNM)	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1900	Service Manual Supplement 2 Supplement 4 Supplement 9	CUC 1836
DAVIO 70 ST70-8510 NIC/DOLBY (VNM)	72010 026 0000 72010 026 0300	Service Manual Supplement 3	CUC 2030 N
DAVIO 70 ST70-853 NIC/PIP (VNM)	72010 026 0000	Service Manual	CUC 2050 N
DAVIO 70 ST70-853 NIC/PIP (VNM)	72010 026 0000	Service Manual	CUC 2050N
DAVIO 70 ST70-870 FR/TOP (VNM)	72010 020 8000 72010 020 8200 72010 020 8300 72010 020 8500	Service Manual Supplement 2 Supplement 3 Supplement 5	CUC 2035 F
DAVIO 70 ST70-880 FR/Dolby (VNM)	72010 028 6000	Service Manual	CUC 2035F
DAVIO 70 ST79-854 PIP/Dolby (VNM)	72010 026 0000 72010 026 0200	Service Manual Supplement 2	CUC 2050N
DENVER 82-100 PALPLUS	72010 019 9000 72010 019 9100 72010 019 9200	Service Manual Supplement 1 Supplement 2	CUC 1984
DENVER 82-100/9 PALPLUS	72010 019 9000 72010 019 9100	Service Manual Supplement 1	CUC 1984
DENVER SE82-100 PALPLUS	72010 019 9000 72010 019 9100 72010 019 9200 72010 019 9400	Service Manual Supplement 1 Supplement 2 Supplement 4	CUC 1984
DENVER SE8227/8 PIP	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400 72010 021 1700	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 7	CUC 1929
DENVER SE8250/8 PIP/DOLBY (VNG)	72010 024 9000 72010 024 9300 72010 024 9400 72010 024 9700	Service Manual Supplement 3 Supplement 4 Supplement 7	CUC 1931
DENVER SE8250/8 PIP/DOLBY (VNM)	72010 024 9000 72010 024 9100	Service Manual Supplement 1	CUC 1931
DENVER SE8250/8 PIP/DOLBY (VNX)	72010 024 9000 72010 024 9300	Service Manual Supplement 3	CUC 1931
ELEGANCE 70 ST70-900 DOLBY (VNM)	72010 024 8000 72010 024 8300	Service Manual Supplement 3	CUC 2032
FINE ARTS VISION MFW82-710/9 DPL/PIP (VNM)	72010 024 9000 72010 024 9100 72010 024 9200	Service Manual Supplement 1 Supplement 2	CUC 1931
FINE ARTS VISION MFW82-720/9 DVD (VNM)	72010 024 9000 72010 024 9100 72010 024 9200	Service Manual Supplement 1 Supplement 2	CUC 1931
GREENVILLE 100 SE7030 (VNM)	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1900	Service Manual Supplement 2 Supplement 4 Supplement 9	CUC 1836
GREENVILLE 370 SE3781 TOP	72010 024 0000	Service Manual	CUC 2003
GREENVILLE 370 SE3781 TOP	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
GREENVILLE 550 SE5586 TOP	72010 021 4000	Service Manual	CUC 2020
GREENVILLE 560 SE5587 TOP	72010 024 7000	Service Manual	CUC 2021
GREENVILLE 561 SE5590 Dolby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021
GREENVILLE 7002 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330
GREENVILLE 7002/8 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330
GREENVILLE 7003 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N
GREENVILLE 7003 TEXT	72010 020 7000	Service Manual	CUC 2030
GREENVILLE 7004 NIC/TOP	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2050 N
GREENVILLE 7005 TOP (VNM)	72010 024 8000	Service Manual	CUC 2032
GREENVILLE 7006 DOLBY (VNM)	72010 024 8000 72010 024 8200	Service Manual Supplement 2	CUC 2032
GREENVILLE 7006 NIC/DOLBY (VNM)	72010 026 0300 72010 026 0000	Service Manual Supplement 3	CUC 2030 N
GT1401	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT1401 I	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT1402	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT1402 I	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT2001	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT2001 I	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT2003	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT2003 I	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT2005	72010 019 1000	Service Manual	G 1000 St.
GT2101	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT2103	72010 017 6000 72010 017 6100	Service Manual Supplement 1	G 1000
GT2105	72010 019 1000	Service Manual	G 1000 St.
M1403	72010 020 5000	Service Manual	CUC 7303
M1403 TXT	72010 020 5000	Service Manual	CUC 7303
M2003 TXT	72010 020 5000	Service Manual	CUC 7303
M2103 TXT	72010 020 5000	Service Manual	CUC 7303
M2150 TXT	72010 020 6000	Service Manual	CUC 7350
M55-280/8 A IDTV LOG	72010 021 1000 72010 021 1200	Service Manual Supplement 2	CUC 1806
M55-280/8 IDTV/LOG	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2	CUC 1805
M55-290/8 IDTV	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1600	Service Manual Supplement 2 Supplement 4 Supplement 6	CUC 1806
M61-1690 DPL	72010 018 7000	Service Manual	CUC 6469

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
M61-1690 TOP/LOG	72010 015 0000	Service Manual	CUC 6369
	72010 015 0100	Supplement 1	
	72010 015 0200	Supplement 2	
	72010 015 0300	Supplement 3	
	72010 015 0400	Supplement 4	
	72010 015 0500	Supplement 5	
M63-281 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826
	72010 019 3100	Supplement 1	
M63-281 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
M63-281/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826
	72010 019 3100	Supplement 1	
M63-281/8 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
M70-1690 DPL	72010 018 7000	Service Manual	CUC 6469
M70-1690 DPL/IDTV	72010 018 9000	Service Manual	CUC 1961
M70-1690 DPL/IDTV/LOG	72010 018 9000	Service Manual	CUC 1961
M70-1690 TOP/LOG	72010 015 0000	Service Manual	CUC 6369
	72010 015 0100	Supplement 1	
	72010 015 0200	Supplement 2	
	72010 015 0300	Supplement 3	
	72010 015 0400	Supplement 4	
M70-269/9 REFERENCE	72010 019 9000	Service Manual	CUC 1952
M70-280 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
M70-280/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
M70-281 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826
	72010 019 3100	Supplement 1	
M70-281 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
M70-281/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1826
	72010 019 3100	Supplement 1	
M70-281/8 IDTV/LOG	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
M70-282 (VNM)	72010 026 9000	Service Manual	CUC 1836
	72010 026 9100	Supplement 1	
M70-290 IDTV	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
M70-290/8 IDTV	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
M72-100 A	72010 021 1000	Service Manual	CUC 1830
	72010 021 1200	Supplement 2	
M72-100 IDTV	72010 019 3000	Service Manual	CUC 1826
	72010 019 3100	Supplement 1	
	72010 019 3200	Supplement 2	

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
M72-100/8 A	72010 021 1000 72010 021 1200	Service Manual Supplement 2	CUC 1830
M72-100/8 IDTV	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2	CUC 1826
M72-109 (VNM)	72010 026 9000 72010 026 9100	Service Manual Supplement 1	CUC 1830
M72-270 IDTV/LOG ELEGANCE	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
M72-270/8 IDTV/LOG ELEGANCE	72010 019 3000 72010 019 3100 72010 019 3200 72010 019 3300 72010 019 3600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 6	CUC 1826
M72-315 IDTV REFERENCE	72010 014 2000 72010 014 2100 72010 014 2200 72010 014 2300 72010 014 2400 72010 014 2500 72010 014 2600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 1852
M72-315/9 IDTV/PIP/REFERENCE	72010 014 2000 72010 014 2100 72010 014 2200 72010 014 2300 72010 014 2400 72010 014 2500 72010 014 2600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 1852
M72-410 REFERENCE	72010 019 9000	Service Manual	CUC 1842
M72-410/9 REFERENCE	72010 019 9000	Service Manual	CUC 1842
M72-410/9 REFERENCE/PIP	72010 019 9000	Service Manual	CUC 1842
M72-798 IDTV	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1900	Service Manual Supplement 2 Supplement 4 Supplement 9	CUC 1830
M82-1690 TOP/LOG	72010 015 0000 72010 015 0100 72010 015 0200 72010 015 0300 72010 015 0400 72010 015 0500 72010 015 0600 72010 015 0700 72010 015 0800	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6 Supplement 7 Supplement 8	CUC 6360
M82-169A PAL PLUS	72010 016 0000 72010 016 0100	Service Manual Supplement 1	CUC 1981
M82-269/9 REF	72010 019 9000	Service Manual	CUC 1984
M82-269PALPLUS/LOG	72010 019 9000	Service Manual	CUC 1983
M84-210/8 A IDTV LOG	72010 021 1000 72010 021 1200	Service Manual Supplement 2	CUC 1829
M84-210/8 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1827
M84-211/8 IDTV (VNM)	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400 72010 021 1800	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 8	CUC 1929
M95-410/9 REFERENCE/PIP	72010 019 9000	Service Manual	CUC 1842

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
M95-411/9 REFERENCE/PIP	72010 019 9000 72010 019 9100 72010 019 9200	Service Manual Supplement 1 Supplement 2	CUC 1894
MELBOURNE SE7210 A NIC/TOP	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2051 N
MELBOURNE SE7210 TOP	72010 020 7000 72010 020 7100	Service Manual Supplement 1	CUC 2031
MELBOURNE SE7210/NIC/TOP	72010 020 7000 72010 020 7100	Service Manual Supplement 1	CUC 2031 N
MELBOURNE SE7212 TOP (VNM)	72010 024 8000	Service Manual	CUC 2033
MIAMI SE3780 TEXT	72010 019 4000 72010 019 4300 72010 019 4600	Service Manual Supplement 3 Supplement 6	CUC 7303
MINERVA M1403	72010 020 5000	Service Manual	CUC 7303
MINERVA M1403 TXT	72010 020 5000	Service Manual	CUC 7303
MINERVA M2003 TXT	72010 020 5000	Service Manual	CUC 7303
MINERVA M2103 TXT	72010 020 5000	Service Manual	CUC 7303
MW70-100/8	72010 021 1000	Service Manual	CUC 1828
MW70-269 PALPLUS	72010 019 9000 72010 019 9100 72010 019 9200 72010 019 9400	Service Manual Supplement 1 Supplement 2 Supplement 4	CUC 1952
MW70-2690 FR/TOP	72010 020 8000 72010 020 8200 72010 020 8300	Service Manual Supplement 2 Supplement 3	CUC 2059 F
MW70-2690 NIC/TOP	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2059 N
MW70-2699 DPL/FT (VNM)	72010 020 7000 72010 020 7400 72010 020 7600 72010 020 7800	Service Manual Supplement 4 Supplement 6 Supplement 8	CUC 2059 N
MW70-2699 FR/TOP (VNM)	72010 020 8000 72010 020 8200 72010 020 8400	Service Manual Supplement 2 Supplement 4	CUC 2059 F
MW70-2699 NIC/FT (VNM)	72010 026 0000	Service Manual	CUC 2059 N
MW70-2699 NIC/FT (VNM)	72010 026 0000	Service Manual	CUC 2059N
MW70-2699 NIC/TOP (VNA)	72010 026 0000	Service Manual	CUC 2059 N
MW70-2699 NIC/TOP (VNA)	72010 026 0000	Service Manual	CUC 2059N
MW70-2699 NIC/TOP (VNM)	72010 020 7000 72010 020 7400 72010 020 7600 72010 020 7800	Service Manual Supplement 4 Supplement 6 Supplement 8	CUC 2059 N
MW70-2700 Dolby (VNM)	72010 026 0000 72010 026 0200	Service Manual Supplement 2	CUC 2059
MW70-2700 FR/DOLBY (VNM)	72010 020 8000 72010 020 8200 72010 020 8400 72010 020 8700 72010 020 8800	Service Manual Supplement 2 Supplement 4 Supplement 7 Supplement 8	CUC 2059F
MW70-2701 DOLBY/FT (VNM)	72010 026 0300 72010 026 0000	Service Manual Supplement 3	CUC 2059 N
MW70-3699 DOLBY/FT (VNM)	72010 026 0300 72010 026 0000	Service Manual Supplement 3	CUC 2059 N

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
MW70-3699 NIC/FT (VNM)	72010 026 0000 72010 026 0100	Service Manual Supplement 1	CUC 2059N
MW70-3700 DPL/FT (VNM)	72010 026 0000 72010 026 0100	Service Manual Supplement 1	CUC 2059N
MW82-100/9	72010 019 9000 72010 019 9100 72010 019 9200 72010 019 9400	Service Manual Supplement 1 Supplement 2 Supplement 4	CUC 1984
MW82-100/9 PALPLUS	72010 019 9000 72010 019 9100 72010 019 9200	Service Manual Supplement 1 Supplement 2	CUC 1983
MW82-100/9 PALPLUS	72010 019 9000 72010 019 9100 72010 019 9200 72010 019 9400	Service Manual Supplement 1 Supplement 2 Supplement 4	CUC 1983
MW82-269/9 REFERENCE	72010 019 9000 72010 019 9100	Service Manual Supplement 1	CUC 1984
MW82-2690 NIC/TOP	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2058 N
MW82-2699 DPL/FT (VNM)	72010 020 7000 72010 020 7400 72010 020 7600 72010 020 7800	Service Manual Supplement 4 Supplement 6 Supplement 8	CUC 2058 N
MW82-2699 FR/TOP (VNM)	72010 020 8000 72010 020 8200 72010 020 8400	Service Manual Supplement 2 Supplement 4	CUC 2058 F
MW82-2699 NIC/FT (VNM)	72010 026 0000	Service Manual	CUC 2058 N
MW82-2699 NIC/FT (VNM)	72010 026 0000	Service Manual	CUC 2058N
MW82-2699 NIC/TOP (VNA)	72010 026 0000	Service Manual	CUC 2058 N
MW82-2699 NIC/TOP (VNA)	72010 026 0000	Service Manual	CUC 2058N
MW82-2699 NIC/TOP (VNM)	72010 020 7000 72010 020 7400 72010 020 7600 72010 020 7800	Service Manual Supplement 4 Supplement 6 Supplement 8	CUC 2058 N
MW82-2700 Dolby (VNM)	72010 026 0000 72010 026 0200	Service Manual Supplement 2	CUC 2058
MW82-2700 FR/Dolby (VNM)	72010 020 8000 72010 020 8200 72010 020 8400 72010 020 8700 72010 020 8800	Service Manual Supplement 2 Supplement 4 Supplement 7 Supplement 8	CUC 2058F
MW82-2701 DOLBY/FT (VNM)	72010 026 0300 72010 026 0000	Service Manual Supplement 3	CUC 2058 N
MW82-3699 DOLBY/FT (VNM)	72010 026 0300 72010 026 0000	Service Manual Supplement 3	CUC 2058 N
MW82-3699 NIC/FT (VNM)	72010 026 0000 72010 026 0100	Service Manual Supplement 1	CUC 2058N
MW82-3700 DPL/FT (VNM)	72010 026 0000 72010 026 0100	Service Manual Supplement 1	CUC 2058N
MW82-40/8 (VNM)	72010 026 9000	Service Manual	CUC 1836
MW82-50/8	72010 021 1000 72010 021 1200 72010 021 1300	Service Manual Supplement 2 Supplement 3	CUC 1929
P14-6210/4	72010 019 8000	Service Manual	CUC 400
P14-6210/4 TEXT	72010 019 8000	Service Manual	CUC 400
P14-6210/6	72010 019 8000	Service Manual	CUC 400

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!



TV Set	Part Number	Kind of Manual	Chassis
P14-6210/6 TEXT	72010 019 8000	Service Manual	CUC 400
P14-6210/8	72010 019 8000	Service Manual	CUC 400
P14-6210/8 TEXT	72010 019 8000	Service Manual	CUC 400
P20-6210/4 TEXT	72010 019 8000	Service Manual	CUC 400
P20-6210/8 TEXT	72010 019 8000	Service Manual	CUC 400
P37-066/5	72010 019 4000	Service Manual	CUC 7303
P37-071	72010 019 4000	Service Manual	CUC 7303
P37-071 GB	72010 019 4000	Service Manual	CUC 7303
P37-071-071 IR	72010 019 4000 72010 019 4100 72010 019 4200 72010 019 4300	Service Manual Supplement 1 Supplement 2 Supplement 3	CUC 7303
P37-080	72010 019 4000 72010 019 4300 72010 019 4600	Service Manual Supplement 3 Supplement 6	CUC 7303
P37-080 (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
P37-080 GB	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
P37-080 GB (VNA)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
P37-080 IR	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
P37-080 IR (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
P37-080 TR (VNM)	72010 019 4000 72010 019 4600 72010 021 9100	Service Manual Supplement 6 Supplement 11	CUC 7303
P37-090 GB (VNA)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
P37-090 GB (VNM)	72010 019 4000 72010 019 4600 72010 021 9200	Service Manual Supplement 6 Supplement 12	CUC 7303 GB
P37-090 IR (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
P37-3035 TEXT	72010 019 4000 72010 019 4100 72010 019 4200	Service Manual Supplement 1 Supplement 2	CUC 7303
P37-3050 text (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
P37-3050 TR (VNM)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
P37-600 TEXT (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
P37-730 MEGASIS	72010 017 8000 72010 017 8100 72010 017 8200 72010 017 8300 72010 017 8400 72010 017 8500	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5	CUC 7301

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
P37-730 TEXT	72010 017 8000	Service Manual	CUC 7301
P37-730 TEXT ASIS	72010 017 8000 72010 017 8100	Service Manual Supplement 1	CUC 7301
P37-730/5 TEXT ICN	72010 017 8000 72010 017 8100 72010 017 8200 72010 017 8300 72010 017 8400	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4	CUC 7301
P37-731 TEXT IR	72010 019 4000 72010 019 4100 72010 019 4200	Service Manual Supplement 1 Supplement 2	CUC 7303
P37-731 TEXT/GB	72010 019 4000	Service Manual	CUC 7303
P37-731/12 TEXT	72010 019 5000	Service Manual	CUC 7305
P37-732/5 TEXT	72010 019 4000 72010 019 4100 72010 019 4200 72010 019 4300	Service Manual Supplement 1 Supplement 2 Supplement 3	CUC 7303
P37-830 MULTI/ICN	72010 024 0000	Service Manual	CUC 2003 H
P37-830 MULTI/ICN	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003 H
P37-830 TEXT	72010 019 4000 72010 019 4300 72010 019 4600	Service Manual Supplement 3 Supplement 6	CUC 7303
P37-830 TEXT (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
P37-830 TEXT/GB	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
P37-830 TEXT/GB (VNA)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
P37-830 TEXT/IR	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
P37-830 text/IR (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
P37-830 text/TR (VNA)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
P37-830 TEXT/TR (VNM)	72010 019 4000 72010 019 4600 72010 021 9100	Service Manual Supplement 6 Supplement 11	CUC 7303
P37-830/12 TEXT GLOBETROTTER	72010 019 5000 72010 019 5100	Service Manual Supplement 1	CUC 7305
P37-830/12 TEXT GLOBETROTTER (VNA)	72010 028 9000	Service Manual	CUC 7305
P37-830/4 TEXT	72010 019 4000 72010 019 4300 72010 019 4600	Service Manual Supplement 3 Supplement 6	CUC 7303
P37-830/4 text (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
P37-837 text (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
P37-837 TEXT (VNM)	72010 019 4000 72010 019 4600 72010 021 9000	Service Manual Supplement 6 Supplement 10	CUC 7303
P37-838 text (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
P37-838 TEXT (VNM)	72010 019 4000 72010 019 4600 72010 021 9000	Service Manual Supplement 6 Supplement 10	CUC 7303
P37-840/12 TOP/SAT	72010 026 2000	Service Manual	CUC 2005
P37-841 FR	72010 019 6000	Service Manual	CUC 7303 F
P37-842 FR	72010 019 6000 72010 019 6300	Service Manual Supplement 3	CUC 7303 FR
P37-844 FR (VNA)	72010 025 7000	Service Manual	CUC 7303 F
P37-844 FR (VNA)	72010 025 7000	Service Manual	CUC 7303F
P37-846 FR	72010 019 6000 72010 019 6100 72010 019 6200	Service Manual Supplement 1 Supplement 2	CUC 7303 F
P37-847 FR/TEXT	72010 019 6000 72010 019 6300 72010 019 6400	Service Manual Supplement 3 Supplement 4	CUC 7303 FR
P37-848 FR Text (VNA)	72010 025 7000	Service Manual	CUC 7303F
P37-848 FR TEXT (VNA)	72010 025 7000	Service Manual	CUC 7303 F
P37-930 TEXT/GB (VNA)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
P37-930 text/IR (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
P37-9441 FR (VNM)	72010 019 6000 72010 019 6300 72010 019 6600	Service Manual Supplement 3 Supplement 6	CUC 7303 F
P37-9441 FR (VNM)	72010 019 6000 72010 019 6300 72010 019 6600	Service Manual Supplement 3 Supplement 6	CUC 7303F
P37-9442 FR (VNM)	72010 019 6000 72010 019 6300 72010 019 6600	Service Manual Supplement 3 Supplement 6	CUC 7303 F
P37-9442 FR (VNM)	72010 019 6000 72010 019 6300 72010 019 6600	Service Manual Supplement 3 Supplement 6	CUC 7303F
P37-9443 FR (VNM)	72010 019 6000 72010 019 6300 72010 019 6600	Service Manual Supplement 3 Supplement 6	CUC 7303 F
P37-9443 FR (VNM)	72010 019 6000 72010 019 6300 72010 019 6600	Service Manual Supplement 3 Supplement 6	CUC 7303F
P45 830/4 TEXT (VNA)	72010 026 1000	Service Manual	CUC 7303
P45-731 TEXT	72010 019 4000	Service Manual	CUC 7303
P45-830 MULTI MEGASIS	72010 024 0000	Service Manual	CUC 2003 H
P45-830 MULTI MEGASIS	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003 H
P45-830 TEXT	72010 019 4000 72010 019 4300 72010 019 4600	Service Manual Supplement 3 Supplement 6	CUC 7303
P45-830 TEXT (VNA)	72010 026 1000	Service Manual	CUC 7303
P45-830/4 TEXT	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
P45-841 FR	72010 019 6000	Service Manual	CUC 7303 F
P45-843 FR	72010 019 4600	Service Manual	CUC 7303
P45-848 FR Text (VNA)	72010 025 7000	Service Manual	CUC 7303F
P45-848 FR TEXT (VNA)	72010 025 7000	Service Manual	CUC 7303 F

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
PLANATRON PW110-520/9 PALPLUS	72010 024 6000	Service Manual	
SE6376 TOP/LOG	72010 015 0000 72010 015 0100 72010 015 0200 72010 015 0300 72010 015 0400 72010 015 0500 72010 015 0600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 6360
SE7016/9 REFERENCE/PIP TRENTO	72010 019 9000	Service Manual	CUC 1952
SE7089 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
SE7277 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6331
SE8216/9 REFERENCE/PIP DENVER	72010 019 9000	Service Manual	CUC 1984
SEDANCE 72 ST72-8610 NIC/DOLBY (VNA)	72010 024 8000 72010 024 8300	Service Manual Supplement 3	CUC 2033N
ST25-8210/6 NT	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3	CUC 2040 India
ST28-8210/6 NT	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3	CUC 2040 India
ST55-605 TOP (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021
ST55-710 NIC/TOP	72010 021 4000	Service Manual	CUC 2020 N
ST55-715 NIC/TOP (VNM)	72010 024 7000 72010 024 7200	Service Manual Supplement 2	CUC 2021 N
ST55-725 A FT/GB	72010 021 4000	Service Manual	CUC 2020 N
ST55-725 B FT/TOP (VNM)	72010 024 7000 72010 024 7200	Service Manual Supplement 2	CUC 2021 N
ST55-725 FT/GB	72010 016 8000 72010 016 8100	Service Manual Supplement 1	CUC 7350
ST55-730 GB/Dolby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021N
ST55-750 FR/TOP	72010 021 8000 72010 021 8100	Service Manual Supplement 1	CUC 2020 FR
ST55-798 TEXT	72010 016 8000 72010 016 8500 72010 016 8700	Service Manual Supplement 5 Supplement 7	CUC 7350
ST55-798 TEXT	72010 016 8000 72010 016 8500 72010 016 8700	Service Manual Supplement 5 Supplement 7	CUC 7350
ST55-800 A TOP	72010 021 4000	Service Manual	CUC 2020
ST55-800 NIC/TOP	72010 021 4000	Service Manual	CUC 2020 N
ST55-805 NIC/TOP (VNM)	72010 024 7000 72010 024 7200	Service Manual Supplement 2	CUC 2021 N
ST55-805 TOP (VNM)	72010 024 7000	Service Manual	CUC 2021
ST55-805 TOP/TR (VNM)	72010 024 7000	Service Manual	CUC 2021
ST55-825 FT/GB (VNM)	72010 024 7000 72010 024 7200	Service Manual Supplement 2	CUC 2021 N
ST55-829 NIC/Dolby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021N
ST55-850 FR / TOP	72010 021 8000	Service Manual	CUC 2020 FR
ST55-850 NIC/TOP	72010 021 4000	Service Manual	CUC 2020 N
ST55-850 TOP	72010 021 4000	Service Manual	CUC 2020
ST55-855 TOP (VNM)	72010 024 7000	Service Manual	CUC 2021

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
ST55-898 DOLby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021
ST55-898 TOP (VNM)	72010 024 7000 72010 024 7200	Service Manual Supplement 2	CUC 2021 N
ST55-900 FR / TOP	72010 021 8000	Service Manual	CUC 2020 FR
ST55-905 FR/TOP (VNM)	72010 027 2000	Service Manual	CUC 2021F
ST63-160A IDTV	72010 014 2000 72010 014 2100 72010 014 2200 72010 014 2300 72010 014 2400 72010 014 2500 72010 014 2600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 1822
ST63-255 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
ST63-255/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
ST63-270/8 IDTV	72010 019 3000 72010 019 3100 72010 019 3200 72010 019 3300 72010 019 3600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 6	CUC 1825
ST63-270/8 IDTV	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400	Service Manual Supplement 2 Supplement 3 Supplement 4	CUC 1836
ST63-700 A NIC/FT (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST63-700 DPL/NIC/FT	72010 020 7000 72010 020 7100	Service Manual Supplement 1	CUC 2040 N
ST63-700 FR	72010 020 8000	Service Manual	CUC 2030
ST63-700 NIC/FT	72010 020 7000 72010 020 7100	Service Manual Supplement 1	CUC 2030 N
ST63-700 NIC/TEXT	72010 020 7000	Service Manual	CUC 2030 N
ST63-700 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N
ST63-700 TEXT	72010 020 7000	Service Manual	CUC 2030
ST63-701 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST63-702 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST63-702 TOP (VNM)	72010 024 8000	Service Manual	CUC 2032
ST63-705 FR/TOP (VNM)	72010 020 8000 72010 020 8200 72010 020 8300 72010 020 8500	Service Manual Supplement 2 Supplement 3 Supplement 5	CUC 2035 F
ST63-705 NIC/TEXT	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2030 N

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
ST63-706 NIC/TOP (VNM)	72010 020 7000	Service Manual	CUC 2030 N
	72010 020 7100	Supplement 1	
	72010 020 7400	Supplement 4	
	72010 020 7800	Supplement 8	
	72010 020 7900	Supplement 9	
ST63-710 NIC/TEXT	72010 020 7000	Service Manual	CUC 2030 N
	72010 020 7100	Supplement 1	
ST63-712 NIC/TOP (VNM)	72010 020 7000	Service Manual	CUC 2030 N
	72010 020 7100	Supplement 1	
	72010 020 7400	Supplement 4	
	72010 020 7800	Supplement 8	
	72010 020 7900	Supplement 9	
ST63-720/8 TEXT	72010 016 9000	Service Manual	CUC 6330
	72010 016 9100	Supplement 1	
ST63-725/8 FT/GB	72010 016 9000	Service Manual	CUC 6330
	72010 016 9100	Supplement 1	
ST63-725/8 TEXT	72010 016 9000	Service Manual	CUC 6330
	72010 016 9100	Supplement 1	
ST63-755 DPL	72010 020 7000	Service Manual	CUC 2040 N
	72010 020 7100	Supplement 1	
	72010 020 7300	Supplement 3	
ST63-755/9 TOP/LOG	72010 015 0000	Service Manual	CUC 6360
	72010 015 0100	Supplement 1	
	72010 015 0200	Supplement 2	
	72010 015 0300	Supplement 3	
	72010 015 0400	Supplement 4	
	72010 015 0500	Supplement 5	
72010 015 0600	Supplement 6		
ST63-780 NIC/TOP	72010 020 7000	Service Manual	CUC 2031 N
ST63-780 TEXT	72010 020 7000	Service Manual	CUC 2031
ST63-782 NIC/TOP (VNM)	72010 020 7000	Service Manual	CUC 2030 N
	72010 020 7100	Supplement 1	
	72010 020 7400	Supplement 4	
	72010 020 7800	Supplement 8	
	72010 020 7900	Supplement 9	
ST63-782 TOP (VNM)	72010 024 8000	Service Manual	CUC 2032
ST63-800 TOP/LOG	72010 015 0000	Service Manual	CUC 6360
	72010 015 0100	Supplement 1	
	72010 015 0200	Supplement 2	
	72010 015 0300	Supplement 3	
	72010 015 0400	Supplement 4	
	72010 015 0500	Supplement 5	
	72010 015 0600	Supplement 6	
	72010 015 0700	Supplement 7	
ST63-800/9 TOP/LOG	72010 015 0000	Service Manual	CUC 6360
	72010 015 0100	Supplement 1	
	72010 015 0200	Supplement 2	
	72010 015 0300	Supplement 3	
	72010 015 0400	Supplement 4	
	72010 015 0500	Supplement 5	
	72010 015 0600	Supplement 6	
	72010 015 0700	Supplement 7	
ST63-875 DPL/FT	72010 020 7000	Service Manual	CUC 2050 N
	72010 020 7100	Supplement 1	
	72010 020 7300	Supplement 3	
	72010 020 7400	Supplement 4	
ST70-200 IDTV	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
ST70-209 (VNM)	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1400	Supplement 4	
	72010 021 1900	Supplement 9	
ST70-250 IDTV (VNM)	72010 026 9000	Service Manual	CUC 1836
ST70-255 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
ST70-255/8 IDTV/LOG	72010 019 3000	Service Manual	CUC 1825
ST70-260/8 IDTV (VNM)	72010 026 9000	Service Manual	CUC 1836
ST70-270 IDTV	72010 019 3000	Service Manual	CUC 1825
	72010 019 3100	Supplement 1	
	72010 019 3200	Supplement 2	
	72010 019 3300	Supplement 3	
ST70-270 IDTV	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
ST70-270/8 IDTV	72010 019 3000	Service Manual	CUC 1825
	72010 019 3100	Supplement 1	
	72010 019 3200	Supplement 2	
	72010 019 3300	Supplement 3	
ST70-270/8 IDTV	72010 021 1000	Service Manual	CUC 1836
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
	72010 021 1400	Supplement 4	
ST70-278 IDTV	72010 019 3000	Service Manual	CUC 1825
	72010 019 3100	Supplement 1	
	72010 019 3200	Supplement 2	
	72010 019 3300	Supplement 3	
ST70-278 IDTV	72010 019 3600	Supplement 6	CUC 1836
	72010 021 1000	Service Manual	
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
ST70-278 IDTV	72010 021 1400	Supplement 4	CUC 1836
	72010 021 1000	Service Manual	
	72010 021 1200	Supplement 2	
	72010 021 1300	Supplement 3	
ST70-280 IDTV	72010 021 1400	Supplement 4	CUC 1836
	72010 021 1700	Supplement 7	
	72010 021 1000	Service Manual	
	72010 021 1200	Supplement 2	
ST70-282/8 (VNM)	72010 026 9000	Service Manual	CUC 1836
	72010 026 9100	Supplement 1	
ST70-298 IDTV (VNM)	72010 026 9000	Service Manual	CUC 1836
	72010 026 9100	Supplement 1	
ST70-600 TEXT	72010 020 7000	Service Manual	CUC 2030
	72010 020 7100	Supplement 1	
	72010 020 7300	Supplement 3	
ST70-602 NIC/TOP (VNM)	72010 026 0000	Service Manual	CUC 2030 N
ST70-602 NIC/TOP (VNM)	72010 026 0000	Service Manual	CUC 2030N
ST70-700 A NIC/FT (VNM)	72010 020 7000	Service Manual	CUC 2030 N
	72010 020 7100	Supplement 1	
	72010 020 7400	Supplement 4	
	72010 020 7800	Supplement 8	
ST70-700 FR	72010 020 7900	Supplement 9	CUC 2030
	72010 020 8000	Service Manual	
ST70-700 NIC/FT	72010 020 7000	Service Manual	CUC 2030 N
	72010 020 7100	Supplement 1	
ST70-700 NIC/TEXT	72010 020 7000	Service Manual	CUC 2030 N
ST70-700 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N
ST70-700 TEXT	72010 020 7000	Service Manual	CUC 2030

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
ST70-701 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST70-7010 NIC/DOLBY (VNM)	72010 026 0300 72010 026 0000	Service Manual Supplement 3	CUC 2030 N
ST70-702 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST70-702 TOP (VNM)	72010 024 8000	Service Manual	CUC 2032
ST70-702 TOP/TR (VNM)	72010 024 8000	Service Manual	CUC 2032
ST70-703 NIC/TOP (VNM)	72010 026 0000	Service Manual	CUC 2030 N
ST70-703 NIC/TOP (VNM)	72010 026 0000	Service Manual	CUC 2030N
ST70-705 FR TITANE (VNM)	72010 020 8000 72010 020 8200 72010 020 8600	Service Manual Supplement 2 Supplement 6	CUC 2035 F
ST70-705 FR/TOP (VNM)	72010 020 8000 72010 020 8200 72010 020 8300 72010 020 8500	Service Manual Supplement 2 Supplement 3 Supplement 5	CUC 2035 F
ST70-705 NIC/TEXT	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2030 N
ST70-706 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST70-707 NIC/FT (VNM)	72010 026 0000 72010 026 0100	Service Manual Supplement 1	CUC 2030N
ST70-710 DPL/NIC/FT	72010 020 7000 72010 020 7100	Service Manual Supplement 1	CUC 2040 N
ST70-710 NIC/TEXT	72010 020 7000 72010 020 7100	Service Manual Supplement 1	CUC 2030 N
ST70-712 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST70-712/5 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST70-715 NIC/TOP	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3	CUC 2030 N
ST70-720/8 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330
ST70-721/8 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330
ST70-725/8 FT/GB	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330
ST70-725/8 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!



TV Set	Part Number	Kind of Manual	Chassis
ST70-728 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330
ST70-730 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST70-755 DPL	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3	CUC 2040 N
ST70-755/9/DPL/LOG	72010 018 7000	Service Manual	CUC 6469
ST70-780 FR /TOP	72010 020 8000	Service Manual	CUC 2030
ST70-780 NIC/TOP	72010 020 7000	Service Manual	CUC 2030 N
ST70-780 TEXT	72010 020 7000	Service Manual	CUC 2030 N
ST70-782 NIC/TOP (VNM)	72010 020 7000 72010 020 7100 72010 020 7400 72010 020 7800 72010 020 7900	Service Manual Supplement 1 Supplement 4 Supplement 8 Supplement 9	CUC 2030 N
ST70-782 TOP (VNM)	72010 024 8000	Service Manual	CUC 2032
ST70-788	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3	CUC 2030
ST70-788 A (VNM)	72010 024 8000 72010 024 8100	Service Manual Supplement 1	CUC 2032
ST70-789 NIC/DOLBY (VNM)	72010 024 8000 72010 024 8200	Service Manual Supplement 2	CUC 2032 N
ST70-798 A TEXT (VNM)	72010 024 8000 72010 024 8100	Service Manual Supplement 1	CUC 2032
ST70-798 TEXT	72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3	CUC 2030
ST70-800 TOP/LOG	72010 015 0000 72010 015 0100 72010 015 0200 72010 015 0300 72010 015 0400 72010 015 0500 72010 015 0600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 6360
ST70-800/9 TOP/LOG	72010 015 0000 72010 015 0100 72010 015 0200 72010 015 0300 72010 015 0400 72010 015 0500 72010 015 0600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6	CUC 6360
ST70-802 FR/Dolby (VNM)	72010 028 6000	Service Manual	CUC 2035F
ST70-809	72010 015 0000 72010 015 0100 72010 015 0200 72010 015 0300 72010 015 0400 72010 015 0500 72010 015 0600 72010 015 0700	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6 Supplement 7	CUC 6360
ST70-810 DPL	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2050 N

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
ST70-819 NIC/TOP	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2050 N
ST70-820 TOP (VNM)	72010 024 8000	Service Manual	CUC 2032
ST70-822 DOLBY (VNM)	72010 024 8000 72010 024 8200	Service Manual Supplement 2	CUC 2032
ST70-822/4 Dplby (VNM)	72010 026 0000 72010 026 0200	Service Manual Supplement 2	CUC 2030N
ST70-829 NIC/Dolby (VNM)	72010 026 0000 72010 026 0200	Service Manual Supplement 2	CUC 2050N
ST70-860 FR/TOP	72010 020 8000 72010 020 8200 72010 020 8300	Service Manual Supplement 2 Supplement 3	CUC 2030 F
ST70-869 A IDTV (VNM)	72010 026 9000	Service Manual	CUC 1836
ST70-869 IDTV	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400 72010 021 1700	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 7	CUC 1836
ST70-869 IDTV	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
ST70-875 DPL/FT	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2050 N
ST70-898 NIC/DOLBY (VNM)	72010 024 8000 72010 024 8200	Service Manual Supplement 2	CUC 2032 N
ST70-97 IDTV	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2	CUC 1825
ST72-01 IDTV	72010 019 3000 72010 019 3100 72010 019 3200 72010 019 3300	Service Manual Supplement 1 Supplement 2 Supplement 3	CUC 1826
ST72-261 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1825
ST72-261/8 IDTV/LOG	72010 019 3000 72010 019 3100	Service Manual Supplement 1	CUC 1826
ST72-600 TOP (VNM)	72010 024 8000	Service Manual	CUC 2033
ST72-700 TOP	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2051 N
ST72-760 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6331
ST72-760/8 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6331
ST72-860 FR /TOP	72010 020 8000	Service Manual	CUC 2031 F
ST72-860 NIC/TOP	72010 020 7000	Service Manual	CUC 2031 N
ST72-860 TOP	72010 020 7000	Service Manual	CUC 2031
ST72-862 TOP (VNM)	72010 024 8000	Service Manual	CUC 2033
ST72-864 DOLBY (VNM)	72010 024 8000 72010 024 8200	Service Manual Supplement 2	CUC 2033
ST72-864 FR/Dolby (VNM)	72010 028 6000	Service Manual	CUC 2033F
ST72-865 NIC/TOP	72010 020 7000 72010 020 7100	Service Manual Supplement 1	CUC 2031 N

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
ST72-870 FR/TOP (VNM)	72010 020 8000 72010 020 8200 72010 020 8300 72010 020 8500	Service Manual Supplement 2 Supplement 3 Supplement 5	CUC 2031 F
ST84-8910 NIC/DOLBY (VNM)	72010 026 0300 72010 026 0000	Service Manual Supplement 3	CUC 2080 N
ST84-896 FR / TOP	72010 020 8000 72010 020 8200	Service Manual Supplement 2	CUC2080 F
ST84-896 NIC/TOP	72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4	CUC 2080 N
ST84-896 NIC/TOP (VNA)	72010 026 0000	Service Manual	CUC 2080 N
ST84-896 NIC/TOP (VNA)	72010 026 0000	Service Manual	CUC 2080N
ST84-899 Dolby (VNM)	72010 026 0000 72010 026 0200	Service Manual Supplement 2	CUC 2080
ST84-899 FR/Dolby (VNM)	72010 020 8000 72010 020 8200 72010 020 8400 72010 020 8700 72010 020 8800	Service Manual Supplement 2 Supplement 4 Supplement 7 Supplement 8	CUC 2080F
SYDNEY 100 SE7020 IDTV/LOG	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400	Service Manual Supplement 2 Supplement 3 Supplement 4	CUC 1836
SYDNEY 100 SE7020 IDTV/LOG	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2	CUC 1826
SYDNEY 100 SE7021 IDTV/PIP	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400	Service Manual Supplement 2 Supplement 3 Supplement 4	CUC 1836
SYDNEY 100/8 SE7020 IDTV/LOG	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400	Service Manual Supplement 2 Supplement 3 Supplement 4	CUC 1836
SYDNEY 100/8 SE7020/8 IDTV/LOG	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2	CUC 1826
SYDNEY 2000 SE7230 DOLBY (VNM)	72010 024 9000 72010 024 9400	Service Manual Supplement 4	CUC 1832
SYDNEY SE7230 DOLBY (VNG)	72010 024 9000 72010 024 9300 72010 024 9400 72010 024 9700	Service Manual Supplement 3 Supplement 4 Supplement 7	CUC 1832
SYDNEY SE7230 DOLBY (VNM)	72010 024 9000	Service Manual	CUC 1832
SYDNEY SE7230 DOLBY (VNX)	72010 024 9000 72010 024 9300	Service Manual Supplement 3	CUC 1832
SYDNEY SE7230/8 DOLBY (VNA)	72010 024 9000 72010 024 9300	Service Manual Supplement 3	CUC 1832
SYDNEY SE7230/8 DOLBY (VNM)	72010 024 9000 72010 024 9300	Service Manual Supplement 3	CUC 1832
SYDNEY SE7230/8 DOLBY (VNX)	72010 024 9000 72010 024 9300 72010 024 9400 72010 024 9700	Service Manual Supplement 3 Supplement 4 Supplement 7	CUC 1832
SYDNEY ST872 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6331

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
SYDNEY ST872/8 TEXT	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6331
T20-6210/4 TEXT	72010 019 8000	Service Manual	CUC 400
T20-6210/6	72010 019 8000	Service Manual	CUC 400
T20-6210/6 TEXT	72010 019 8000	Service Manual	CUC 400
T20-6210/8	72010 019 8000	Service Manual	CUC 400
T20-6210/8 TEXT	72010 019 8000	Service Manual	CUC 400
T21-6210/4	72010 019 8000	Service Manual	CUC 400
T21-6210/4 TEXT	72010 019 8000	Service Manual	CUC 400
T21-6210/6	72010 019 8000	Service Manual	CUC 400
T21-6210/6 TEXT	72010 019 8000	Service Manual	CUC 400
T21-6210/8	72010 019 8000	Service Manual	CUC 400
T21-6210/8 TEXT	72010 019 8000	Service Manual	CUC 400
T51-071	72010 019 4000	Service Manual	CUC 7303
T51-071 (VNX)	72010 026 1000	Service Manual	CUC 7303
T51-071 TR (VNA)	72010 026 1000	Service Manual	CUC 7303
T51-071 TR (VNM)	72010 019 4000 72010 019 4600 72010 021 9100	Service Manual Supplement 6 Supplement 11	CUC 7303
T51-3035 TEXT	72010 019 4000 72010 019 4100 72010 019 4200	Service Manual Supplement 1 Supplement 2	CUC 7303
T51-3035 TEXT (VNX)	72010 026 1000	Service Manual	CUC 7303
T51-3050 text (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T51-720 TEXT	72010 019 4000	Service Manual	CUC 7303
T51-720 TEXT (VNX)	72010 026 1000	Service Manual	CUC 7303
T51-720 TEXT/GB	72010 019 4000	Service Manual	CUC 7303
T51-721/5	72010 019 8000	Service Manual	CUC 400
T51-721/5 TEXT	72010 019 8000	Service Manual	CUC 400
T51-730 MEGASIS	72010 017 8000 72010 017 8100 72010 017 8200 72010 017 8300 72010 017 8400 72010 017 8500	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5	CUC 7301
T51-730 TEXT ASIS	72010 017 8000 72010 017 8100 72010 017 8200	Service Manual Supplement 1 Supplement 2	CUC 7301
T51-730/5 MEGASIS	72010 017 8000 72010 017 8100 72010 017 8200 72010 017 8300 72010 017 8400 72010 017 8500	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5	CUC 7301
T51-731 TEXT	72010 019 4000	Service Manual	CUC 7303
T51-731 TEXT (VNX)	72010 026 1000	Service Manual	CUC 7303
T51-731 TEXT/TR (VNA)	72010 026 1000	Service Manual	CUC 7303
T51-731 TEXT/TR (VNM)	72010 019 4000 72010 019 4600 72010 021 9100	Service Manual Supplement 6 Supplement 11	CUC 7303
T51-732/4 TEXT (VNA)	72010 026 1000	Service Manual	CUC 7303
T51-732/5 TEXT	72010 019 4000	Service Manual	CUC 7303

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
T51-830 MULTI/ICN	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003 H
T51-830 MULTI/ICN (VNM)	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003 H
T51-830 text (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T51-830 text/TR (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T51-830/12 TEXT (VNM)	72010 028 9000	Service Manual	CUC 7305
T51-830/4 text (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T51-846 FR	72010 019 6000	Service Manual	CUC 7303 F
T55-3035	72010 019 4000 72010 019 4100 72010 019 4200 72010 019 4300	Service Manual Supplement 1 Supplement 2 Supplement 3	CUC 7303
T55-3035 TEXT	72010 019 4000 72010 019 4100 72010 019 4200	Service Manual Supplement 1 Supplement 2	CUC 7303
T55-3035 TEXT (VNX)	72010 026 1000	Service Manual	CUC 7303
T55-3050 text (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T55-600 text (VNM)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T55-64/4 ASIS	72010 014 8000 72010 014 8100	Service Manual Supplement 1	CUC 6301
T55-730 MEGASIS	72010 017 8000 72010 017 8100 72010 017 8200 72010 017 8300 72010 017 8400 72010 017 8500	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5	CUC 7301
T55-730 TEXT	72010 017 8000 72010 017 8100	Service Manual Supplement 1	CUC 7301
T55-730 TEXT ASIS	72010 017 8000 72010 017 8100 72010 017 8200	Service Manual Supplement 1 Supplement 2	CUC 7301
T55-730 TEXT/GB	72010 017 8000 72010 017 8100 72010 017 8200	Service Manual Supplement 1 Supplement 2	CUC 7301
T55-730/5 MEGASIS	72010 017 8000 72010 017 8100 72010 017 8200 72010 017 8300 72010 017 8400 72010 017 8500	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5	CUC 7301
T55-730/5 TEXT ASIS	72010 017 8000 72010 017 8100 72010 017 8200	Service Manual Supplement 1 Supplement 2	CUC 7301
T55-730/5 TEXT ICN	72010 017 8000 72010 017 8100 72010 017 8200 72010 017 8300 72010 017 8400	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4	CUC 7301

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
T55-731 FT/GB	72010 019 4000	Service Manual	CUC 7303
T55-731 FT/IR	72010 019 4000 72010 019 4100 72010 019 4200	Service Manual Supplement 1 Supplement 2	CUC 7303
T55-731 TEXT	72010 019 4000	Service Manual	CUC 7303
T55-731/5 TEXT	72010 017 8000 72010 017 8100 72010 017 8200	Service Manual Supplement 1 Supplement 2	CUC 7301
T55-732/5 TEXT	72010 019 4000	Service Manual	CUC 7303
T55-733/5 TEXT	72010 019 4000	Service Manual	CUC 7303
T55-805 TEXT/TR (VNM)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
T55-830 FT/GB	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
T55-830 FT/GB (VNA)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
T55-830 FT/IR	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
T55-830 FT/IR (VNA)	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T55-830 MULTI MEGASIS	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003 H
T55-830 MULTI MEGASIS (VNM)	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003 H
T55-830 MULTI/ICN	72010 024 0000	Service Manual	CUC 2003 H
T55-830 MULTI/ICN (VNM)	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003 H
T55-830 TEXT (VNA)	72010 026 1000	Service Manual	CUC 7303
T55-830 TEXT/TR (VNA)	72010 026 1000	Service Manual	CUC 7303
T55-830 TEXT/TR (VNM)	72010 019 4000 72010 019 4600 72010 021 9100	Service Manual Supplement 6 Supplement 11	CUC 7303
T55-830/ TEXT	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
T55-830/4 TEXT	72010 019 4000 72010 019 4600 72010 019 4700	Service Manual Supplement 6 Supplement 7	CUC 7303
T55-830/4 TEXT (VNA)	72010 026 1000	Service Manual	CUC 7303
T55-837 TEXT (VNA)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
T55-837 text (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
T55-837 TEXT (VNM)	72010 019 4000 72010 019 4600 72010 021 9000	Service Manual Supplement 6 Supplement 10	CUC 7303
T55-838 text (VNA)	72010 026 1000 72010 026 1100	Service Manual Supplement 1	CUC 7303
T55-838 TEXT (VNM)	72010 019 4000 72010 019 4600 72010 021 9000	Service Manual Supplement 6 Supplement 10	CUC 7303

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
T55-840 TOP/SAT	72010 024 0000	Service Manual	CUC 2003
T55-840 TOP/SAT (VNM)	72010 024 0000 72010 024 0100	Service Manual Supplement 1	CUC 2003
T55-841 FR	72010 019 6000	Service Manual	CUC 7303 F
T55-842 FR	72010 019 6000 72010 019 6300 72010 019 6400	Service Manual Supplement 3 Supplement 4	CUC 7303 FR
T55-843 FR MEGASIS	72010 018 5000 72010 018 5100	Service Manual Supplement 1	CUC 7301 F ASIS
T55-844 FR (VNA)	72010 025 7000	Service Manual	CUC 7303 F
T55-844 FR (VNA)	72010 025 7000	Service Manual	CUC 7303F
T55-846 FR	72010 019 6000 72010 019 6100 72010 019 6200	Service Manual Supplement 1 Supplement 2	CUC 7303 F
T55-847 FR / TEXT	72010 019 6000 72010 019 6300 72010 019 6400	Service Manual Supplement 3 Supplement 4	CUC 7303 FR
T55-848 FR Text (VNA)	72010 025 7000	Service Manual	CUC 7303F
T55-848 FR TEXT (VNA)	72010 025 7000	Service Manual	CUC 7303 F
T55-930 FT/GB (VNA)	72010 026 1000 72010 026 1100 72010 026 1300	Service Manual Supplement 1 Supplement 3	CUC 7303
T55-930 FT/IR	72010 026 1000 72010 026 1100 72010 026 1200	Service Manual Supplement 1 Supplement 2	CUC 7303 mit PLL
T70-740 FT/GB	72010 013 8000 72010 013 8100	Service Manual Supplement 1	CUC 6310
T70-740 TEXT	72010 013 8000 72010 013 8100 72010 013 8200	Service Manual Supplement 1 Supplement 2	CUC 6310
T70-740/4 TOP	72010 013 8000 72010 013 8100 72010 013 8200	Service Manual Supplement 1 Supplement 2	CUC 6310
TORONTO SE7215 (VNM)	72010 026 9000 72010 026 9100	Service Manual Supplement 1	CUC 1830
TORONTO SE7215/8 (VNM)	72010 026 9000 72010 026 9100	Service Manual Supplement 1	CUC 1830
TRENTO SE7026 PALPLUS	72010 019 9000 72010 019 9100	Service Manual Supplement 1	CUC 1952
WIEN 100 SE6320 IDTV/LOG	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400	Service Manual Supplement 2 Supplement 3 Supplement 4	CUC 1836
WIEN 100 SE6320 IDTV/LOG	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2	CUC 1826
XENTIA 55 ST55-400 Dolby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021
XENTIA 55 ST55-400 FR/DOLBY (VNM)	72010 027 2000 72010 027 2100	Service Manual Supplement 1	CUC 2021 F
XENTIA 55 ST55-400 NIC/Dolby (VNM)	72010 024 7000 72010 024 7300	Service Manual Supplement 3	CUC 2021N
XENTIA 63 M63-400/8 (VNM)	72010 026 9000	Service Manual	CUC 1836
XENTIA 63 ST63-400/4 DOLBY (VNM)	72010 026 0000 72010 026 0200	Service Manual Supplement 2	CUC 2030N
XENTIA 70 FLAT MFW82-490/9 DOLBY (VNM)	72010 024 9000 72010 024 9400	Service Manual Supplement 4	CUC 1930

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

TV Set	Part Number	Kind of Manual	Chassis
XENTIA 72 FLAT MF72-490 DOLBY (VNA)	72010 024 9000 72010 024 9100 72010 024 9400 72010 024 9600	Service Manual Supplement 1 Supplement 4 Supplement 6	CUC 1832
XENTIA 72 FLAT MF72-490 DOLBY (VNM)	72010 024 9000 72010 024 9100	Service Manual Supplement 1	CUC 1832
XENTIA 72 FLAT MF72-490/8 DOLBY (VNA)	72010 024 9000 72010 024 9100 72010 024 9400 72010 024 9600	Service Manual Supplement 1 Supplement 4 Supplement 6	CUC 1832
XENTIA 72 FLAT MF72-490/8 DOLBY (VNM)	72010 024 9000 72010 024 9100	Service Manual Supplement 1	CUC 1832
XENTIA 72 M72-400 DOLBY (VNM)	72010 024 9000 72010 024 9100	Service Manual Supplement 1	CUC 1832
XENTIA 72 M72-400 DOLBY (VNX)	72010 024 9000 72010 024 9100 72010 024 9400 72010 024 9600	Service Manual Supplement 1 Supplement 4 Supplement 6	CUC 1832
XENTIA 72 M72-400/8 DOLBY (VNM)	72010 024 9000 72010 024 9100	Service Manual Supplement 1	CUC 1832
XENTIA 72 M72-400/8 DOLBY (VNX)	72010 024 9000 72010 024 9100 72010 024 9400 72010 024 9600	Service Manual Supplement 1 Supplement 4 Supplement 6	CUC 1832
XENTIA 82 FLAT MFW82-490/9 DOLBY (VNM)	72010 024 9000 72010 024 9400	Service Manual Supplement 4	CUC 1931
XS63/81	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330
XS70/81	72010 016 9000 72010 016 9100	Service Manual Supplement 1	CUC 6330

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!



## Service Manuals sorted by Chassis

Chassis		Part Number	Kind of Manual
CUC 1805	DIGI BASIC	72010 019 3000 72010 019 3100 72010 019 3200	Service Manual Supplement 1 Supplement 2
CUC 1806	DIGI BASIC ++	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1600 72010 021 1900	Service Manual Supplement 2 Supplement 4 Supplement 6 Supplement 9
CUC 1822	DIGI 5	72010 014 2000 72010 014 2100 72010 014 2200 72010 014 2300 72010 014 2400 72010 014 2500 72010 014 2600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 4 Supplement 5 Supplement 6
CUC 1825	DIGI BASIC	72010 019 3000 72010 019 3100 72010 019 3200 72010 019 3300 72010 019 3600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 6
CUC 1826	DIGI BASIC +	72010 019 3000 72010 019 3100 72010 019 3200 72010 019 3300 72010 019 3600	Service Manual Supplement 1 Supplement 2 Supplement 3 Supplement 6
CUC 1827	DIGI BASIC +	72010 019 3000 72010 019 3100	Service Manual Supplement 1
CUC 1828	DIGI BASIC ++	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1600	Service Manual Supplement 2 Supplement 4 Supplement 6
CUC 1829	DIGI BASIC ++	72010 021 1000 72010 021 1200	Service Manual Supplement 2
CUC 1830	DIGI BASIC ++	72010 021 1000 72010 021 1200 72010 021 1400 72010 021 1600 72010 021 1900	Service Manual Supplement 2 Supplement 4 Supplement 6 Supplement 9
CUC 1830 (ab 3/2000)	DIGI BASIC ++	72010 026 9000 72010 026 9100	Service Manual Supplement 1
CUC 1832	DIGI Basic 3	72010 024 9000 72010 024 9100 72010 024 9300 72010 024 9400 72010 024 9600 72010 024 9700	Service Manual Supplement 1 Supplement 3 Supplement 4 Supplement 6 Supplement 7
CUC 1836	DIGI BASIC ++	72010 021 1000 72010 021 1200 72010 021 1300 72010 021 1400 72010 021 1700 72010 021 1900	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 7 Supplement 9
CUC 1836 (ab 11/99)	DIGI BASIC ++	72010 026 9000 72010 026 9100	Service Manual Supplement 1
CUC 1842	DIGI 6	72010 019 9000	Service Manual

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

Chassis		Part Number	Kind of Manual
CUC 1852	DIGI 5	72010 014 2000	Service Manual
		72010 014 2100	Supplement 1
		72010 014 2200	Supplement 2
		72010 014 2300	Supplement 3
		72010 014 2400	Supplement 4
		72010 014 2500	Supplement 5
CUC 1894	DIGI 6	72010 019 9000	Service Manual
		72010 019 9100	Supplement 1
		72010 019 9200	Supplement 2
CUC 1929	DIGI BASIC ++	72010 021 1000	Service Manual
		72010 021 1200	Supplement 2
		72010 021 1300	Supplement 3
		72010 021 1400	Supplement 4
		72010 021 1700	Supplement 7
		72010 021 1800	Supplement 8
CUC 1930	DIGI Basic 3	72010 024 9000	Service Manual
		72010 024 9100	Supplement 1
		72010 024 9400	Supplement 4
		72010 024 9500	Supplement 5
CUC 1931	DIGI Basic 3	72010 024 9000	Service Manual
		72010 024 9100	Supplement 1
		72010 024 9200	Supplement 2
		72010 024 9300	Supplement 3
		72010 024 9400	Supplement 4
		72010 024 9500	Supplement 5
		72010 024 9700	Supplement 7
CUC 1952	DIGI 6	72010 019 9000	Service Manual
		72010 019 9100	Supplement 1
		72010 019 9200	Supplement 2
		72010 019 9400	Supplement 4
CUC 1961	DIGI 5 / 16:9	72010 018 9000	Service Manual
CUC 1981	DIGI 4 PAL PLUS	72010 016 0000	Service Manual
		72010 016 0100	Supplement 1
CUC 1983	DIGI 6	72010 019 9000	Service Manual
		72010 019 9100	Supplement 1
		72010 019 9200	Supplement 2
		72010 019 9400	Supplement 4
		72010 019 9500	Supplement 5
CUC 1984	DIGI 6	72010 019 9000	Service Manual
		72010 019 9100	Supplement 1
		72010 019 9200	Supplement 2
		72010 019 9400	Supplement 4
CUC 2003		72010 024 0000	Service Manual
		72010 024 0100	Supplement 1
CUC 2003 H		72010 024 0000	Service Manual
		72010 024 0100	Supplement 1
CUC 2003/H		72010 024 0000	Service Manual
		72010 024 0100	Supplement 1
CUC 2005		72010 026 2000	Service Manual
CUC 2020		72010 021 4000	Service Manual
CUC 2020 FR		72010 021 8000	Service Manual
		72010 021 8100	Supplement 1
CUC 2020 N		72010 021 4000	Service Manual
CUC 2021		72010 024 7000	Service Manual
		72010 024 7300	Supplement 3
CUC 2021 F		72010 027 2000	Service Manual
		72010 027 2100	Supplement 1

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!



Chassis		Part Number	Kind of Manual
CUC 2021 N		72010 024 7000 72010 024 7200 72010 024 7300	Service Manual Supplement 2 Supplement 3
CUC 2030		72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3
CUC 2030 F		72010 020 8000 72010 020 8200 72010 020 8300	Service Manual Supplement 2 Supplement 3
CUC 2030 N		72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400 72010 020 7900	Service Manual Supplement 1 Supplement 3 Supplement 4 Supplement 9
CUC 2030 N (ab 11/99)		72010 026 0000 72010 026 0100 72010 026 0200 72010 026 0300	Service Manual Supplement 1 Supplement 2 Supplement 3
CUC 2031		72010 020 7000 72010 020 7100	Service Manual Supplement 1
CUC 2031 F		72010 020 8000 72010 020 8500	Service Manual Supplement 5
CUC 2031 N		72010 020 7000 72010 020 7100	Service Manual Supplement 1
CUC 2032		72010 024 8000 72010 024 8100 72010 024 8200 72010 024 8300	Service Manual Supplement 1 Supplement 2 Supplement 3
CUC 2032 N		72010 024 8000 72010 024 8200	Service Manual Supplement 2
CUC 2033		72010 024 8000 72010 024 8200	Service Manual Supplement 2
CUC 2033 N		72010 024 8000 72010 024 8300	Service Manual Supplement 3
CUC 2035 F		72010 020 8000 72010 020 8200 72010 020 8300 72010 020 8500 72010 020 8600	Service Manual Supplement 2 Supplement 3 Supplement 5 Supplement 6
CUC 2040 India		72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3
CUC 2040 N		72010 020 7000 72010 020 7100 72010 020 7300	Service Manual Supplement 1 Supplement 3
CUC 2050 N		72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4
CUC 2050 N (ab 11/99)		72010 026 0000 72010 026 0100 72010 026 0200	Service Manual Supplement 1 Supplement 2
CUC 2051 N		72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4
CUC 2058 D		72010 025 9000 72010 025 9100	Service Manual Supplement 1

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

Chassis		Part Number	Kind of Manual
CUC 2058 F		72010 020 8000 72010 020 8200 72010 020 8400 72010 020 8800	Service Manual Supplement 2 Supplement 4 Supplement 8
CUC 2058 N		72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400 72010 020 7800	Service Manual Supplement 1 Supplement 3 Supplement 4 Supplement 8
CUC 2058 N (ab 11/99)		72010 026 0000 72010 026 0100 72010 026 0200 72010 026 0300	Service Manual Supplement 1 Supplement 2 Supplement 3
CUC 2059 D		72010 025 9000 72010 025 9100	Service Manual Supplement 1
CUC 2059 F		72010 020 8000 72010 020 8200 72010 020 8300 72010 020 8400 72010 020 8800	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 8
CUC 2059 N		72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400 72010 020 7800	Service Manual Supplement 1 Supplement 3 Supplement 4 Supplement 8
CUC 2059 N (ab 11/99)		72010 026 0000 72010 026 0100 72010 026 0200 72010 026 0300	Service Manual Supplement 1 Supplement 2 Supplement 3
CUC 2080 F		72010 020 8000 72010 020 8200 72010 020 8300 72010 020 8400 72010 020 8800	Service Manual Supplement 2 Supplement 3 Supplement 4 Supplement 8
CUC 2080 F		72010 020 8000 72010 020 8200	Service Manual Supplement 2
CUC 2080 N		72010 020 7000 72010 020 7100 72010 020 7300 72010 020 7400	Service Manual Supplement 1 Supplement 3 Supplement 4
CUC 2080 N (ab 11/99)		72010 026 0000 72010 026 0100 72010 026 0200 72010 026 0300	Service Manual Supplement 1 Supplement 2 Supplement 3
CUC 400		72010 019 8000	Service Manual
CUC 6301		72010 014 8000 72010 014 8100	Service Manual Supplement 1
CUC 6301 F		72010 016 4000	Service Manual
CUC 6310		72010 013 8000 72010 013 8100 72010 013 8200	Service Manual Supplement 1 Supplement 2
CUC 6310 F		73720 814 5600 72010 018 3100	Service Manual Supplement 1
CUC 6331		72010 016 9000 72010 016 9100	Service Manual Supplement 1

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!



Chassis		Part Number	Kind of Manual	
CUC 6360		72010 015 0000	Service Manual	
		72010 015 0100	Supplement 1	
		72010 015 0200	Supplement 2	
		72010 015 0300	Supplement 3	
		72010 015 0400	Supplement 4	
		72010 015 0500	Supplement 5	
		72010 015 0600	Supplement 6	
		72010 015 0700	Supplement 7	
CUC 6369		72010 015 0800	Supplement 8	
		72010 015 0000	Service Manual	
		72010 015 0100	Supplement 1	
		72010 015 0200	Supplement 2	
		72010 015 0300	Supplement 3	
		72010 015 0400	Supplement 4	
CUC 6469		72010 015 0500	Supplement 5	
		72010 015 0600	Supplement 6	
		72010 018 7000	Service Manual	
	CUC 7301		72010 017 8000	Service Manual
			72010 017 8100	Supplement 1
			72010 017 8200	Supplement 2
		72010 017 8400	Supplement 4	
		72010 017 8500	Supplement 5	
CUC 7301 F ASIS		72010 018 5000	Service Manual	
		72010 018 5100	Supplement 1	
CUC 7303 CUC 7303 GB		72010 019 4000	Service Manual	
		72010 019 4100	Supplement 1	
		72010 019 4200	Supplement 2	
		72010 019 4300	Supplement 3	
		72010 019 4600	Supplement 6	
		72010 019 4700	Supplement 7	
		72010 019 4800	Supplement 8	
		72010 021 9000	Supplement 10	
		72010 021 9100	Supplement 11	
		72010 021 9200	Supplement 12	
	CUC 7303 F		72010 019 6000	Service Manual
			72010 019 6200	Supplement 2
		72010 019 6300	Supplement 3	
		72010 019 6400	Supplement 4	
		72010 019 6500	Supplement 5	
		72010 019 6600	Supplement 6	
CUC 7303 F mit PLL		72010 025 7000	Service Manual	
CUC 7303 MINERVA		72010 020 5000	Service Manual	
CUC 7303 mit PLL		72010 026 1000	Service Manual	
		72010 026 1100	Supplement 1	
		72010 026 1200	Supplement 2	
		72010 026 1300	Supplement 3	
CUC 7305		72010 019 5000	Service Manual	
		72010 019 5100	Supplement 1	
CUC 7305 mit PLL		72010 028 9000	Service Manual	
CUC 7350		72010 016 8000	Service Manual	
		72010 016 8500	Supplement 5	
		72010 016 8700	Supplement 7	
G 1000		72010 017 6000	Service Manual	
		72010 017 6100	Supplement 1	
G 1000 St.		72010 019 1000	Service Manual	

Observe also the instructions given in the "Safety" Service Manual, part no. 72010 800 0000!

## 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 fault tag or adhesive label is enclosed with all modules (insert cards) delivered by the GRUNDIG service organisation.

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

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

- 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 aut  
Fault occurs after approx ..... minutes  
Il difetto compare dopo ca. .... minuti  
Le défaut apparaît après environ ..... minutes de fonctionnement  
La avería aparece tras ..... minutos
- Wackelkontakt / intermittent contact / Contatto difettoso  
Mauvais contact intermittent / contacto intermitente
- Sonstige Fehlererscheinungen: / Other faults: / Altri difetti:  
Autres défauts: / Otras averías: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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

**Collaborate con noi nella ricerca deidifetti:  
corredate ogni modulo che rimandate indietro dei cartellino dei difetti compilato in tutti i suoi punti!**

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

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

## Contents: Video

Module Chart .....	3.2
– GV 600 to GV 690.....	3.2
– GV 6000 to GV 6596.....	3.2
– GVP 600, GV 26, GV 46, SE 61.....	3.2
– GV 709 to GV 7497.....	3.3
– GV 819 to GV 8450.....	3.3
– GV 27, GV 47, KV 7..., KV 8..., SE 71..., SE 81.....	3.4
– GV 29, GV 94, GV 900 to GV 9400, SE 9100 to SE 9106 .....	3.4
– GV 10..., GV 30..., GV 50..., GV 60..., SE 11..., SE 12... .....	3.5
– TVR 37.....	3.5
– TVR 51..., TVR 55... .....	3.6
– DVD Player.....	3.6
 Headwheels and Head Cylinders.....	 3.7
 Service Manuals .....	 3.10
– Video.....	3.10
– TVR Combinations.....	3.16
– DVD Player.....	3.17
 Tele-Pilot® Remote Control Handsets/Overview.....	 3.18
 Video Remote Control Codes .....	 3.21
– GV 26 to GV 6.....	3.21
– GV 27 to GV 8.....	3.22
– GV 29 to GV 9.....	3.23
 Continuous Operation and Special Functions.....	 3.24
– GV 600 to GV 690.....	3.24
– GV 6000 to GV 6596.....	3.25
– GVP 600, GV 26, GV 46, SE 61.....	3.26
– GV 709 to GV 7497 .....	3.27
– GV 27, GV 47, KV 7..., KV 8..., SE 7..., SE 8.....	3.28
– GV 29, GV 8..., GV 9..., SE 9.....	3.28
– GV 10...GV 60..., SE 11..., SE 12... .....	3-28
 Cancelling the Electronic Lock.....	 3.29
 Jigs and Tools .....	 3.35
– Video Recorders .....	3.35
– TVR Combinations.....	3.38

## Module Chart GV 600 to GV 690

Designation	Part Number	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 5400								•	•				•			
Tuner/Modulator	75988 038 3800										•				•				
Tuner/Modulator	75988 039 4100	•	•			•	•												
Tuner/Verstärker	75988 038 7600			•				•											
RP 500	75988 010 7100	•	•			•	•		•	•									
RP 500 F	75988 010 7200			•				•			•								
RP 540	75988 010 7300											•	•	•					
RP 540 F	75988 010 7400													•					
RP 609 M	75988 034 0000				•														

## Module Chart GV 6000 to GV 6596

Designation	Part Number	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 5400																
Tuner/Modulator	75988-037 2100				•														
Tuner/Modulator	75988 037 2700	•							•					•					
Tuner/Modulator	75988 037 8700		•	•		•			•	•						•			
Tuner/Modulator	75988 038 8300						•	•						•					
Tuner/Modulator	75988 039 4100						•	•				•						•	•
RP 160	75988 010 9100		•	•	•	•				•	•			•	•	•	•		
RP 160 F	75988 010 9200	•							•										
RP 500	75988 010 7100						•	•					•						
RP 540	75988 010 7300											•						•	•

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

Designation	Part Number	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 5400							
Tuner/Modulator	75988 037 2700			•						
Tuner/Modulator	75988 037 8700	•		•	•	•				
Tuner/Modulator	75988 039 4100							•	•	
RP 150	75988 324 0300	•								
RP 160	75988 010 9100		•		•	•	•			
RP 160 F	75988 010 9200			•						
RP 500	75988 010 7100							•		
RP 540	75988 010 7300								•	•



### Module Chart GV 709 to GV 7497

Designation	Part Number	GV 709 M	GV 729 M	GV 740 HiFi	GV 740 NIC	GV 7000 EURO	GV 7000 SV	GV 7000 SV-C	GV 7003	GV 7300 EURO	GV 7300 SV	GV 7300 SV/5	GV 7400 EURO	GV 7400 HiFi	GV 7400 HiFi/5	GV 7400 NIC	GV 7400 NIC2 *	GV 7497 NIC
		Tuner	75988 323 6000	•	•													
Tuner/Booster	75988 037 2700					1)				1)			1)					
Tuner/Booster	75988 041 4000					2)				2)			2)					
Tuner/Modulator	75988 035 5400			•	•													•
Tuner/Modulator	75988 037 8700					1)	1)	1)		1)			1)		1)			
Tuner/Modulator	75988 038 8300											1)		1)				
Tuner/Modulator	75988 041 4300					2)	2)	2)		2)			2)		2)			
Tuner/Modulator	75988 041 4800											2)		2)				
ZF	75988 323 6100		•															
ZF	75988 323 6300	•																
RP 7	72011 650 0000			•	•													•
RP 170	72011 660 0000						•	•	•		•	•		•	•	•		
RP 170 FR	72011 660 0100					•				•			•					
RP 500	75988 010 7500			•	•													•
RP 709/729	75988 323 3100	•	•															

1) Evolution code AA  
 2) from evolution code AB

### Module Chart GV 819 to GV 8450

Designation	Part Number	GV 819 M	GV 8000 EURO	GV 8000 GB	GV 8000 SV/1	GV 8000 SV/2	GV 8000 SV/5	GV 8050 SV	GV 8300 EURO	GV 8300 SV	GV 8300 SV/5	GV 8400 EURO	GV 8400 GB	GV 8400 HiFi	GV 8400 HiFi/5	GV 8400 NIC 1	GV 8400 NIC 2	GV 8450 HiFi
		Tuner/Booster	75988 041 4400		•						•			•				
Tuner/Modulator	75988 041 4300			•	•			•		•			•			•	•	•
Tuner/Modulator	75988 041 4500			•								•						
Tuner/Modulator	75988 041 4800						•				•			•				
Tuner	75988 323 9500	•																
RP 700	72011 713 0000			•	•	•	•	•		•	•		•	•	•	•	•	•
RP 700 FR	72011 713 0100		•						•			•						
RP 819	75988 323 9000	•																

Video

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

Designation	Part Number	GV 27					KV 7001					SE 7100				
		EURO	VPS	HiFi	NIC	SV	VPS/5	HiFi	NIC	SV	VPS/5	HiFi	NIC	SV	VPS/5	HiFi
Tuner	75988 039 4100															
Tuner/Booster	75988 037 2700		1)													
Tuner/Booster	75988 041 4000		2)													
Tuner/Modulator	75988 035 5400															
Tuner/Modulator	75988 037 8700	1)			1)							1)	1)			
Tuner/Modulator	75988 038 8300		1)		1)		1)	1)								
Tuner/Modulator	75988 041 4300	2)			2)							2)	2)			
Tuner/Modulator	75988 041 4800		2)		2)		2)	2)								
RP 7	72011 650 0000															
RP 170	72011 660 0000	•					•	•				•	•			
RP 170 FR	72011 660 0100		•													
RP 500	75988 010 7500															
RP 700	72011 713 0000															

- 1) Evolution code AA
- 2) from evolution code AB

### Module Chart GV 29, GV 94, GV 900 to GV 9400, SE 9100 to SE 9106

Designation	Part Number	GV 29																SE 9100															
		EURO	VPS	VPS/5	HiFi	NIC	SV/1	SV/2	HiFi	EURO	HiFi	HiFi/5	NIC	HiFi/NIC	SV	SV/5	EURO	SV	SV/5	EURO	HiFi	HiFi/5	NIC	SV	SV/5	HiFi	HiFi/NIC						
Tuner	75988 046 4200						•	•	•																								
Tuner	75988 048 4400																																
Tuner RF/TU/IF	75988 060 7200		•																														
Tuner RF/TU/IF	75988 061 0500			•																													
Tuner TU/IF	75988 062 0500	•																															
Tuner RF/TU/IF	75988 062 4800				•	•																											
Socket Board	27599 002 8000																																
Socket Board	27599 002 8100		•	•																													
Socket Board	27599 002 8200	•																															
Socket Board	27599 002 8400				•	•																											
NICAM/Stereo-Dec.	27599 006 0500																																
Stereo Decoder	27599 006 0600																																
Stereo-Decoder TN-3	27599 006 0700				•																												
Stereo-Decoder TN-6	27599 006 0800					•																											
TP 90 V	72011 713 1000		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
TP 90 V	72011 713 1100	•																															

### Module Chart GV 10..., GV 30..., GV 50..., GV 60..., SE 11..., SE 12...

Designation	Part Number																										
		GV 1010 SV/1	GV 1030 HiFi	GV 3000 VPS/1	GV 3000 VPS/2	GV 3004 PDC/EURO	GV 3005 VPS	GV 3006 VPS	GV 3010 SV/1	GV 3010 SV/2	GV 3015 SV	GV 3042 NIC	GV 3043 HiFi	GV 3044 NIC/EURO	GV 3045 HiFi	GV 5052 NIC	GV 5053 HiFi	GV 5054 NIC/EURO	GV 6062 NIC	GV 6063 HiFi	GV 6065 HiFi	SE 1102 SV	SE 1105 HiFi	SE 1106 HiFi/NIC	SE 1200 SV	SE 1205 HiFi	SE 1206 HiFi/NIC
Tuner	75988 046 4200	•	•																			•	•	•			
Tuner	75988 048 4400																										
Tuner RF/TU/IF	75988 060 7200			•	•																				•		
Tuner RF/TU/IF	75988 061 0500																										
Tuner TU/IF	75988 062 0500					•																					
Tuner RF/TU/IF	75988 062 4800											•	•													•	•
Socket Board TB-2	27599 002 9700												•	•	•	•	•	•									•
Socket Board TB-2	27599 102 0000																		•	•	•						•
Featurebox DM-1	27599 006 1400																		•	•	•						•
NICAM/Stereo-Dec.	27599 006 0500																										
Stereo Decoder	27599 006 0600		•																								
TP 90 V	72011 713 1000	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•
TP 90 V	72011 713 1100					•												•									
TP 91 V	72011 713 1400													•					•	•	•						•

### Module Chart TVR37...

Designation	Part Number																										
		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 3730 Text	TVR 3730 Text/FR	TVR 3730 Text/GB	TVR 3735 FR/TOP	TVR 3735/1 TOP	TVR 3735/2 TOP	TVR 3740 FR/TOP	TVR 3740 FT/GB	TVR 3740/1 TOP	TVR 3740/2 TOP							
Head Amplifier	27599 004 0700	•	•	•	•	•	•																				
Head Amplifier	27599 004 0800							•																			
Head Amplifier	27599 004 2000										•																
Head Amplifier	27599 004 2100									•		•															
Keyboard	27599 002 8300													•	•	•	•	•	•	•	•						
Tuner	75988 019 9400																										
Tuner	75988 019 9500				•	•																					
Tuner	75988 019 9600				•	•																					
Tuner	75988 021 2500	•	•			•																					
Tuner	75988 025 2700																										
Tuner (1702)	75988 025 3000							•																			
Tuner	75988 050 0900																										
Tuner	75988 053 0200																										
TP 870	29642 061 1300													•	•	•	•	•	•	•	•						
TVP 762	75988 017 0600	•	•			•	•	•																			
TVP 763	75988 019 9700			•	•																						

Video

## Module Chart TVR51..., TVR55...

Designation	Part Number																
		TVR 5100	TVR 5100 Text (BA)	TVR 5100 FR	TVR 5100 GB	TVR 5120 FR	TVR 5130 FR	TVR 5130 Text	TVR 5130 Text/GB	TVR 5500	TVR 5500 FR	TVR 5530 Text	TVR 5530 Text/FR	TVR 5540 FR/TOP	TVR 5540 FT/GB	TVR 5540/1 TOP	TVR 5540/2 TOP
Head Amplifier	27599 004 0700	•		•		•					•	•					
Head Amplifier	27599 004 0800				•												
Head Amplifier	27599 004 2000		•				•						•				
Head Amplifier	27599 004 2100							•	•			•					
Keyboard	27599 002 8300												•	•	•	•	
Tuner	75988 021 2500	•															
Tuner	75988 025 2700				•	•				•	•						
Tuner (1702)	75988 025 3000				•	•	•	•	•	•	•	•					
Tuner	75988 025 6200		•	•				•	•	•							
Tuner	75988 050 0900										•	•					
Tuner	75988 053 0200												•	•	•	•	
TP 870	29642 061 1300												•	•	•	•	
TVP 762	75988 017 0600	•		•	•	•				•	•						
TVP 763	75988 019 9700		•				•	•	•								
TVP 860	72011 650 0400										•	•					

## Module Chart DVD-Player

Designation	Part Number					Designation	Part Number			
		GDV Modul 1	GDV 100 D	GDV 100 D/002	GDV 110 D			GDV 120	GDV 120/02	GDV 130
Digital Board	75988 045 0000					DVD-Monoboard	75988 042 8200			
DVD-Monoboard	75988 042 8200	•			•	MPEG Board	27599 009 0600	•		
Digital Board	75988 042 8000		•			MPEG Board	27599 009 0700		•	
Drive	29638 256 1100	•				Drive	75988 067 0000	•		
Drive	75988 042 7600		•			Drive	75988 069 0000		•	
Keyboard	75988 045 0100			•		Drive Board	27599 006 0900	•		
Keyboard	75988 042 8500				•	Drive Board	27599 006 1000		•	
Power Supply	75988 042 8100		•			Power Supply	27599 003 2100	•	•	
						Power Switch	75988 065 7400	•	•	
A/V-MUX Board	75988 042 8200				•	Headphone Board	75988 065 6700	•	•	
A/V-MUX Board	75988 042 9800	•				Socket Board	27599 002 9300	•	•	
RP 100 D	75988 042 7700		•	•	•	AV Socket Board	75988 065 8600	•	•	
						A/V-MUX Board	75988 042 9800	•	•	
						TP 80 V				
						TP 82 V	75988 065 0000	•	•	
						TP 84 D				•

## Headwheels and Head Cylinders (Part 1)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
GV 26...	2	27599 005 0800	75988 023 0300
GV 27...	2	27599 005 2200	75988 023 0800
GV 29 EURO	2	27599 005 3100	
GV 29 VPS	2	27599 005 3100	
GV 29 VPS/5	2	27599 005 3000	
GV 46...	4	27599 005 1400	75988 023 0500
GV 47...	4	27599 005 1400	75988 023 0900
GV 94 HiFi	6	27599 005 3800	
GV 94 NIC	6	27599 005 3800	
GV 600..., 605, 6000..., 6001, 6066	2	27599 005 0800	75988 023 0300
GV 609 M	2	75988 034 0600	75988 034 5100 *
GV 6096...	2	27599 005 0800	75988 023 0300
GV 630..., 6300 SV(/1), 6396 VPT	4	27599 005 1400	75988 023 0500
GV 635 EURO, 6300 EURO	4	27599 005 1500	75988 023 0500
GV 640..., 6400 HiFi(/5), 6400 NIC, 6401	6	27599 005 1900	75988 023 0600
GV 645 EURO, 6400 EURO	6	27599 005 2000	75988 023 0600
GV 650, 6596...	6	27599 005 1900	75988 023 0600
GV 660...	7	27599 005 1900	75988 023 0700
GV 665 EURO	7	27599 005 2000	75988 023 0700
GV 670...	6	27599 005 1900	75988 023 0600
GV 690...	7	27599 005 1900	75988 023 0700
GV 709 M, 729 M	2	75988 323 3700	75988 323 3600 *
GV 740...	6	27599 005 2400	75988 023 1000
GV 900 SV/1	2	75988 046 0300	
GV 900 SV/2	2	75988 046 0300	
GV 920 HiFi	6	75988 046 4300	
GV 940 EURO	6	75988 046 5000	
GV 940 HiFi	6	75988 046 4300	
GV 940 HiFi/5	6	75988 046 4300	
GV 940 NIC	6	75988 046 4300	
GV 950 HiFi/NIC	6	75988 046 4300	
GV 1010 SV/1	2	75988 046 0300	
GV 1030 HiFi	6	75988 046 4300	
GV 3000 VPS/1	2	27599 005 3900	
GV 3000 VPS/2	2	27599 005 3900	
GV 3004 PDC/EURO	2	27599 005 3900	
GV 3005 VPS	2	27599 005 4000	
GV 3006 VPS	2	27599 005 3900	
GV 3010 SV/1	2	27599 005 3900	
GV 3010 SV/2	2	27599 005 3900	
GV 3015 SV	2	27599 005 4000	
GV 3042 NIC	6	27599 005 4200	
GV 3043 HiFi	6	27599 005 4200	
GV 3044 NIC/EURO	6	27599 005 4100	
GV 3045 HiFi	6	27599 005 4200	
GV 5052 NIC	6	27599 005 4200	
GV 5053 HiFi	6	27599 005 4200	
GV 5054 NIC/EURO	6	27599 005 4100	
GV 6062 NIC	6	27599 005 4200	
GV 6063 HiFi	6	27599 005 4200	
GV 6065 HiFi	6	27599 005 4200	
GV 7000..., GV 7003	2	27599 005 2200	75988 023 0800
GV 7300 EURO, GV 7300 SV/5	4	27599 005 1500	75988 023 0900
GV 7300 SV	4	27599 005 1400	75988 023 0900
GV 7400 EURO	6	27599 005 1500	75988 023 0900
GV 7400 HiFi, GV 7400 NIC	6	27599 005 2400	75988 023 1000
GV 7400 HiFi/5	6	27599 005 2500	75988 023 1000
GV 7497 NIC	6	27599 005 2400	75988 023 1000

## Headwheels and Head Cylinders (Part 2)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
GV 819 M	2	75988 323 7000	75988 323 9400
GV 8000 EURO, GV 8000 SV/1	2	27599 005 2200	75988 023 0800
GV 8000 GB	2	27599 005 2300	75988 023 0800
GV 8000 SV/2, GV 8000 SV/5, GV 8050 SV	2	27599 005 2200	75988 023 0800
GV 8300...	4	27599 005 1500	75988 023 0900
GV 8400..., GV 8450 HiFi	6	27599 005 2000	75988 023 1000
GV 9000	2	27599 005 3100	
GV 9000 SV	2	27599 005 3100	
GV 9000 SV/5	2	27599 005 3000	
GV 9300 EURO	4	27599 005 3300	
GV 9300 SV	4	27599 005 3200	
GV 9300 SV/5	4	27599 005 3200	
GV 9400 EURO	6	75988 046 5000	
GV 9400 HiFi	6	75988 046 4300	
GV 9400 HiFi/5	6	75988 046 4300	
GV 9400 NIC	6	75988 046 4300	
GVP 600 ICN EURO	2	27599 005 0800	75988 001 3300
KV 7001 VPS/5	2	27599 005 2200	75988 023 0800
KV 7301 VPS/5	4	27599 005 1500	75988 023 0900
KV 8001 VPS/5	2	27599 005 2200	75988 023 0800
KV 8301 VPS/5	4	27599 005 1500	75988 023 0900
KV 8401 HiFi/5	6	27599 005 2000	75988 023 1000
MV 6001 SV	2	27599 005 0800	75988 023 0300
SE 1102 SV	2	75988 046 0300	
SE 1105 HiFi	6	75988 046 4300	
SE 1106 HiFi/NIC	6	75988 046 4300	
SE 1200 SV	2	27599 005 3900	
SE 1205 HiFi	6	27599 005 4200	
SE 1206 HiFi/NIC	6	27599 005 4200	
SE 6102 SV	2	27599 005 0800	75988 023 0300
SE 6104 VPT	4	27599 005 1400	75988 023 0500
SE 6106 HiFi	6	27599 005 1900	75988 023 0600
SE 6110 VT	2	47226 020 0100	47226 043 5000
SE 6160 VPT	6	75986 210 0800	75986 210 0700
SE 7100 SV	2	27599 005 2200	75988 023 0800
SE 7104	4	27599 005 1400	75988 023 0900
SE 7105 HiFi, SE 7106 HiFi	6	27599 005 2400	75988 023 1000
SE 7120 VPT	3	75986 209 1900	75986 209 1800
SE 8100 SV	2	27599 005 2200	75988 023 0800
SE 8105 HiFi	6	27599 005 2000	75988 023 1000
SE 9100 SV	2	27599 005 3100	
SE 9102 SV	2	75988 046 0300	
SE 9105 HiFi	6	75988 046 4300	
SE 9106 HiFi/NIC	6	75988 046 4300	
TVR 3701 SV	2	27599 005 0800	75988 001 3300
TVR 3701 SV/FR	2	27599 005 0800	75988 001 3300
TVR 3705	2	27599 005 0800	75988 001 3300
TVR 3705 FR	2	27599 005 0800	75988 001 3300
TVR 3710	2	27599 005 0800	75988 001 3300
TVR 3710 FR	2	27599 005 0800	75988 001 3300
TVR 3710 GB	2	27599 005 0700	75988 001 3300
TVR 3720	2	27599 005 0800	75988 001 3300
TVR 3720 GB	2	27599 005 0700	75988 001 3300

### Headwheels and Head Cylinders (Part 3)

Type of VCR	Heads	Headwheel Part No.	Head Cylinder Part No.
TVR 3730 Text	2	27599 005 0800	75988 001 3300
TVR 3730 Text/FR	2	27599 005 0800	75988 001 3300
TVR 3730 Text/GB	2	27599 005 0800	75988 001 3300
TVR 3735 FR/TOP	2	27599 005 3500	
TVR 3735/1 TOP	2	27599 005 3400	
TVR 3735/2 TOP	2	27599 005 3400	
TVR 3740 FR/TOP	2	27599 005 3500	
TVR 3740 FT/GB	2	27599 005 3400	
TVR 3740/1 TOP	2	27599 005 3400	
TVR 3740/2 TOP	2	27599 005 3400	
TVR 5100	2	27599 005 0700	75988 001 3300
TVR 5100 Text (Code BA)	2	27599 005 0800	75988 001 3300
TVR 5100 FR	2	27599 005 0800	75988 001 3300
TVR 5100 GB	2	27599 005 0700	75988 001 3300
TVR 5120 FR	2	27599 005 0800	75988 001 3300
TVR 5130 Text	2	27599 005 0800	75988 001 3300
TVR 5130 FR	2	27599 005 0800	75988 001 3300
TVR 5130 Text/GB	2	27599 005 0800	75988 001 3300
TVR 5500	2	27599 005 0800	75988 001 3300
TVR 5500 FR	2	27599 005 0800	75988 001 3300
TVR 5530 Text	2	27599 005 0800	75988 001 3300
TVR 5530 text/FR	2	27599 005 0800	75988 001 3300
TVR 5540 FR/TOP	4	27599 005 3700	
TVR 5540 FT/GB	4	27599 005 3600	
TVR 5540/1 TOP	4	27599 005 3600	
TVR 5540/2 TOP	4	27599 005 3600	

\* scanner (tape drum assembly) cpl.

## Service Manuals Video (Part 1)

Type of set	Part Number	Kind of Manual
GV 26	72010 527 2500	Service Manual
GV 26 EURO	72010 527 4000	Service Manual
GV 26 VPS	72010 527 2500	Service Manual
GV 46	72010 527 2500	Service Manual
GV 46 VPS	72010 527 2500	Service Manual
GV 27	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 27 EURO	72010 530 3000	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 27 VPS	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 47	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 47 VPS	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 600 SV	72010 528 4500	Service Manual
GV 600 SV/1	72010 528 4500	Service Manual
GVP 600 ICN EURO	72010 519 0000	Service Manual
	72010 519 0400	Supplement
GV 605 EURO	72010 528 5000	Service Manual
GV 609 M	72010 522 1000	Service Manual
GV 630 SV	72010 528 4500	Service Manual
GV 630 SV/1	72010 528 4500	Service Manual
GV 635 EURO	72010 528 5000	Service Manual
GV 640 HIFI	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 640 NIC	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 645 EURO	72010 527 5000	Service Manual
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 650 HIFI	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 660 HIFI	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 660 NIC	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 665 EURO	72010 527 5000	Service Manual
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 670 S HIFI	72010 527 3500	Service Manual
	72010 527 3600	Supplement
	72010 527 3700	Supplement
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
	72010 528 9300	Training (D)
72010 528 9400	Training (GB)	

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!



## Service Manuals Video (Part 2)

Type of set	Part Number	Kind of Manual
GV 670 S NIC	72010 527 3500	Service Manual
	72010 527 3600	Supplement
	72010 527 3700	Supplement
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
	72010 528 9300	Training (D)
	72010 528 9400	Training (GB)
GV 690 S HIFI	72010 527 3500	Service Manual
	72010 527 3600	Supplement
	72010 527 3700	Supplement
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
	72010 528 9300	Training (D)
	72010 528 9400	Training (GB)
GV 690 S NIC	72010 527 3500	Service Manual
	72010 527 3600	Supplement
	72010 527 3700	Supplement
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
	72010 528 9300	Training (D)
	72010 528 9400	Training (GB)
GV 6000 EURO	72010 527 4000	Service Manual
GV 6000 SV	72010 527 2500	Service Manual
GV 6000 SV/1	72010 527 2500	Service Manual
GV 6001 V+	72010 527 2500	Service Manual
GV 6066 / Palermo	72010 527 2500	Service Manual
GV 6096 SV / Barcelona	72010 527 2500	Service Manual
	72010 527 2600	Supplement
GV 6096 SV/1 / Barcelona	72010 527 2500	Service Manual
	72010 527 2600	Supplement
GV 6300 EURO	72010 527 4000	Service Manual
GV 6300 SV	72010 527 2500	Service Manual
GV 6300 SV/1	72010 527 2500	Service Manual
GV 6396 SV / Florenz	72010 527 2500	Service Manual
	72010 527 2600	Supplement
GV 6400 EURO	72010 527 4500	Service Manual
	72010 527 3100	Service Manual
GV 6400 HIFI	72010 527 3000	Service Manual
	72010 527 3100	Service Manual
GV 6400 HIFI/5	72010 527 3000	Service Manual
	72010 527 3100	Service Manual
GV 6400 NIC 1	72010 527 3000	Service Manual
	72010 527 3100	Service Manual
GV 6400 NIC 2	72010 527 3000	Service Manual
	72010 527 3100	Service Manual
GV 6401 NIC	72010 527 3000	Service Manual
	72010 527 3100	Service Manual
GV 6596 HIFI / Madrid	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 6596 NIC / Madrid	72010 527 3500	Service Manual
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 709 M	72010 527 5500	Service Manual
GV 729 M	72010 527 5500	Service Manual
GV 740 HiFi	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

## Service Manuals Video (Part 3)

Type of set	Part Number	Kind of Manual
GV 740 NIC	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 7000 EURO	72010 530 3000	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7000 SV	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7000 SV-C	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7003	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7300 EURO	72010 530 3000	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7300 SV	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7300 SV/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 EURO	72010 530 3000	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 HiFi	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 HiFi/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 NIC	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7400 NIC2	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
GV 7497 NIC / Madrid	72010 527 3500	Service Manual
	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
GV 819 M	72010 534 0000	Service Manual
GV 8000 EURO	72010 530 3000	Service Manual
	72010 530 3100	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8000 GB	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8000 SV/1	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8000 SV/2	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

### Service Manuals Video (Part 4)

Type of set	Part Number	Kind of Manual
GV 8000 SV/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8050 SV	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8300 EURO	72010 530 3000	Service Manual
	72010 530 3100	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8300 SV	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8300 SV/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 EURO	72010 530 3000	Service Manual
	72010 530 3100	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 GB	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 HiFi	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 HiFi/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 NIC 1	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8400 NIC 2	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 8450 HiFi	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
GV 29 EURO	72010 536 3500	Service Manual
	72010 536 3600	Supplement
GV 29 VPS	72010 535 1500	Service Manual
GV 29 VPS/5	72010 535 1500	Service Manual
GV 94 HiFi	72010 536 8500	Service Manual
	72010 536 8600	
GV 94 NIC	72010 536 8500	Service Manual
	72010 536 8600	
GV 900 SV/1	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)
GV 900 SV/2	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)
GV 920 HiFi	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

## Service Manuals Video (Part 5)

Type of set	Part Number	Kind of Manual
GV 940 EURO	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)
GV 940 HiFi	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)
GV 940 HiFi/5	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)
GV 940 NIC	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)
GV 950 HiFi/NIC	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
GV 1010 SV/1	72010 535 2000	Service Manual
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
GV 1030 HiFi	72010 535 2000	Service Manual
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
GV 3000 VPS/1	72010 540 5000	Service Manual
GV 3000 VPS/2	72010 540 5000	Service Manual
GV 3004 PDC/EURO	72010 540 5000	Service Manual
GV 3005 VPS	72010 540 5000	Service Manual
GV 3006 VPS	72010 540 5000	Service Manual
GV 3010 SV/1	72010 540 5000	Service Manual
GV 3010 SV/2	72010 540 5000	Service Manual
GV 3015 SV	72010 540 5000	Service Manual
GV 3042 NIC	72010 540 5000	Service Manual
GV 3043 HiFi	72010 540 5000	Service Manual
GV 3044 NIC/EURO	72010 540 5000	Service Manual
GV 3045 HiFi	72010 540 5000	Service Manual
GV 5052 NIC	72010 540 5000	Service Manual
GV 5053 HiFi	72010 540 5000	Service Manual
GV 5054 NIC/EURO	72010 540 5000	Service Manual
GV 6062 NIC	72010 540 5000	Service Manual
	72010 540 5100	Supplement
GV 6063 HiFi	72010 540 5000	Service Manual
	72010 540 5100	Supplement
GV 6065 HiFi	72010 540 5000	Service Manual
	72010 540 5100	Supplement
GV 9000	72010 535 1500	Service Manual
	72010 535 1600	Supplement
GV 9000 SV	72010 535 1500	Service Manual
	72010 535 1700	Supplement
GV 9000 SV/5	72010 535 1500	Service Manual
	72010 535 1700	Supplement
GV 9300 EURO	72010 536 3500	Service Manual
	72010 536 3600	Supplement
GV 9300 SV	72010 535 1500	Service Manual
	72010 535 1700	Supplement
GV 9300 SV/5	72010 535 1500	Service Manual
	72010 535 1700	Supplement
GV 9400 EURO	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)
GV 9400 HiFi	72010 535 2000	Service Manual
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
GV 9400 HiFi/5	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 536 1500	Training (D)

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

## Service Manuals Video (Part 6)

Type of set	Part Number	Kind of Manual
GV 9400 NIC	72010 535 2000	Service Manual
	72010 535 2100	Supplement
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
KV 5001 VPS/5	72010 519 0000	Service Manual
	72010 519 0100	Supplement
	72010 519 0600	Supplement
KV 5301 VPS/5	72010 519 0000	Service Manual
	72010 519 0100	Supplement
	72010 519 0600	Supplement
KV 7001 VPS/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
KV 7301 VPS/5	72010 530 2500	Service Manual
	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
KV 8001 VPS/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
KV 8301 VPS/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
KV 8401 HiFi/5	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
MV 6001 SV	72010 531 4000	Training (GB)
	72010 528 9500	Service Manual
SE 1102 SV	72010 535 2000	Service Manual
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
SE 1105 HiFi	72010 535 2000	Service Manual
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
SE 1106 HiFi/NIC	72010 535 2000	Service Manual
	72010 535 2200	Supplement
	72010 536 1500	Training (D)
SE 1200 SV	72010 540 5000	Service Manual
SE 1205 HiFi	72010 540 5000	Service Manual
SE 1206 HiFi/NIC	72010 540 5000	Service Manual
	72010 540 5100	Supplement
SE 6102 SV	72010 527 2500	Service Manual
	72010 527 2600	Supplement
SE 6104 SV	72010 527 2500	Service Manual
	72010 527 2600	Supplement
	72010 527 3500	Service Manual
SE 6106 HiFi	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)
	72010 530 2500	Service Manual
SE 7100 SV / Palermo	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
	72010 527 2500	Service Manual
SE 7104 SV / Florenz	72010 527 2600	Supplement
	72010 527 2700	Supplement
	72010 530 2500	Service Manual
SE 7105 HiFi / Sevilla	72010 531 4000	Training (D)
	72010 531 4100	Training (GB)
	72010 527 3500	Service Manual
SE 7106 HiFi / Madrid	72010 527 3700	Supplement
	72010 527 3800	OIRT Board
	72010 528 9000	Training (D)
	72010 528 9100	Training (GB)

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

## Service Manuals Video (Part 7)

Type of set	Part Number	Kind of Manual
SE 8100 SV / Palermo	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
SE 8105 HiFi / Sevilla	72010 530 2500	Service Manual
	72010 530 2600	Supplement
	72010 531 4000	Training (D)
	72010 531 4000	Training (GB)
SE 9100 SV / Palermo	72010 535 1500	Service Manual
	72010 535 1600	Supplement
SE 9102 SV / Barcelona	72010 535 2000	Service Manual
	72010 536 1500	Training (D)
SE 9105 HiFi / Sevilla	72010 535 2000	Service Manual
	72010 536 1500	Supplement
SE 9106 HiFi/NIC / Madrid	72010 535 2000	Service Manual
	72010 536 1500	Training (D)
VCR-SAT 1	72010 537 5500	Service Manual

## Service Manuals TVR Combinations (Part 1)

Type of set	Part Number	Kind of Manual
TVR 3701 SV	72010 524 9500	Service Manual
	72010 524 9600	Supplement
	72010 524 9800	Supplement
TVR 3701 SV/FR	72010 525 0000	Service Manual
	72010 525 0100	Supplement
	72010 525 0200	Supplement
TVR 3705	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 3705 FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
TVR 3710	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 3710 FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
TVR 3710 GB	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 3720	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 3720 GB	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 3730 Text (Code AA)	72010 524 9500	Service Manual
	72010 524 9800	Supplement
	72010 524 9900	Supplement
TVR 3730 Text/FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
	72010 525 0300	Supplement
TVR 3730 Text/GB (Code AA)	72010 524 9500	Service Manual
	72010 524 9800	Supplement
	72010 524 9900	Supplement
TVR 3735 FR/TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 3735/1 TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 3735/2 TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 3740 FR/TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 3740 FT/GB	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 3740/1 TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 3740/2 TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

## Service Manuals TVR Combinations (Part 2)

Type of set	Part Number	Kind of Manual
TVR 5100	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 5100 Text (Code BA)	72010 524 9500	Service Manual
	72010 524 9800	Supplement
	72010 524 9900	Supplement
TVR 5100 FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
TVR 5100 GB	72010 524 9500	Service Manual
	72010 524 9700	Supplement
	72010 524 9800	Supplement
TVR 5120 FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
TVR 5130 Text (Code AA)	72010 524 9500	Service Manual
	72010 524 9800	Supplement
	72010 524 9900	Supplement
TVR 5130 FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
	72010 525 0300	Supplement
TVR 5130 Text/GB (Code AA)	72010 524 9500	Service Manual
	72010 524 9800	Supplement
	72010 524 9900	Supplement
TVR 5500	72010 524 9500	Service Manual
	72010 524 9800	Supplement
TVR 5500 FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
TVR 5530 Text (Code AA)	72010 524 9500	Service Manual
	72010 524 9800	Supplement
	72010 524 9900	Supplement
TVR 5530 text/FR	72010 525 0000	Service Manual
	72010 525 0200	Supplement
	72010 525 0300	Supplement
TVR 5540 FR/TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 5540 FT/GB	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 5540/1 TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement
TVR 5540/2 TOP	72010 536 6000	Service Manual
	72010 536 6100	Supplement

## Service Manuals DVD Player

Type	Part Number	Kind of Manual
GDV 100 D	72010 531 9500	Service Manual
GDV 100 D / 002	72010 531 9600	Service Manual
GDV 110 D	72010 531 9600	Service Manual
	72010 537 2000	Supplement
GDV 120	72010 539 3500	Service Manual
GDV 120/02	72010 539 3500	Service Manual
GDV 130	72010 537 9500	Service Manual
GDV Modul 1	72010 027 9000	Service Manual

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

# GRUNDIG Tele-Pilot® Remote Control Handsets/Overview Video Product Range



**RP 7**  
72011 650 0000



**RP 100 D**  
75988 042 7700



**RP 150**  
75988 324 0300



**RP 160**  
75988 010 9100



**RP 170**  
72011 660 0000



**RP 500**  
75988 010 7100



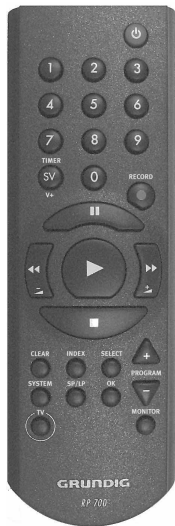
**RP 509**  
75988 232 3100  
**RP 609**  
75988 034 0000



**RP 540**  
75988 010 7300

Video





RP 700  
72011 713 0000



RP 709/729  
75988 323 3100



RP 819  
75988 323 9000



TP 80 V

Video



TP 82 V  
75988 065 0000



TP 84 D



TP 90 V  
72011 713 1000



TP 91 V  
72011 713 1400



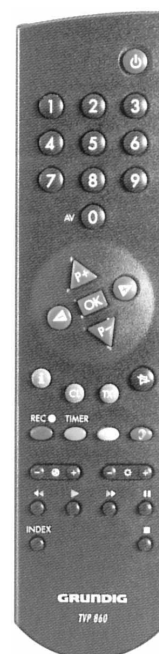
TP 870 T  
29642 061 1300



TVP 762  
75988 017 0600



TVP 763  
75988 019 9700



TVP 860  
72011 650 0400



Video Control 1  
72011 610 0000

Video Control 1  
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 variants



Video Control LCD  
72011 615 0000

Video Control LCD

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

**Programming:**  
insert battery -> SEL in  
display -> enter the code  
and confirm with OK.

Video

## Video Remote Control Codes: GV 26 to GV 6...

VCR	VCR Remote Control Code			RC Transmitter	Transmitter RC Code		
	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 609 M	-	-	-
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	-	●	●
MV 6001 SV	●	-	-	RP 160	●	-	-
SE 6102 SV	-	●	●	RP 500	-	●	●
SE 6104 VPT	-	●	●	RP 540	-	●	●
SE 6106 HiFi	-	●	●	RP 540	-	●	●

## Video Remote Control Codes: GV 27 to GV 8...

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

## Video Remote Control Codes: GV 29 to GV 9...

VCR	VCR Remote Control Code			RC Transmitter	Transmitter RC Code		
	RC 5 Code	16Bit Level 1	16Bit Level 2		RC 5 Code	16Bit Level 1	16Bit Level 2
GV 29 EURO	-	•	•	TP 90 V	-	•	•
GV 29 VPS	-	•	•	TP 90 V	-	•	•
GV 29 VPS/5	-	•	•	TP 90 V	-	•	•
GV 94 HiFi	-	•	•	TP 90 V	-	•	•
GV 94 NIC	-	•	•	TP 90 V	-	•	•
GV 900 SV/1	-	•	•	TP 90 V	-	•	•
GV 900 SV/2	-	•	•	TP 90 V	-	•	•
GV 920 HiFi	-	•	•	TP 90 V	-	•	•
GV 940 EURO	-	•	•	TP 90 V	-	•	•
GV 940 HiFi	-	•	•	TP 90 V	-	•	•
GV 940 HiFi/5	-	•	•	TP 90 V	-	•	•
GV 940 NIC	-	•	•	TP 90 V	-	•	•
GV 950 HiFi/NIC	-	•	•	TP 90 V	-	•	•
GV 1010 SV/1	-	•	•	TP 90 V	-	•	•
GV 1030 HiFi	-	•	•	TP 90 V	-	•	•
GV 3000 VPS/1	-	•	•	TP 90 V	-	•	•
GV 3000 VPS/2	-	•	•	TP 90 V	-	•	•
GV 3004 PDC/EURO	-	•	•	TP 90 V	-	•	•
GV 3005 VPS	-	•	•	TP 90 V	-	•	•
GV 3006 VPS	-	•	•	TP 90 V	-	•	•
GV 3010 SV/1	-	•	•	TP 90 V	-	•	•
GV 3010 SV/2	-	•	•	TP 90 V	-	•	•
GV 3015 SV	-	•	•	TP 90 V	-	•	•
GV 3042 NIC	-	•	•	TP 90 V	-	•	•
GV 3043 HiFi	-	•	•	TP 90 V	-	•	•
GV 3044 NIC/EURO	-	•	•	TP 90 V	-	•	•
GV 3045 HiFi	-	•	•	TP 90 V	-	•	•
GV 5052 NIC	-	•	•	TP 90 V	-	•	•
GV 5053 HiFi	-	•	•	TP 90 V	-	•	•
GV 5054 NIC/EURO	-	•	•	TP 90 V	-	•	•
GV 6062 NIC	-	•	•	TP 91 V	-	•	•
GV 6063 HiFi	-	•	•	TP 91 V	-	•	•
GV 6065 HiFi	-	•	•	TP 91 V	-	•	•
GV 9000	-	•	•	TP 90 V	-	•	•
GV 9000 SV	-	•	•	TP 90 V	-	•	•
GV 9000 SV/5	-	•	•	TP 90 V	-	•	•
GV 9300 EURO	-	•	•	TP 90 V	-	•	•
GV 9300 SV	-	•	•	TP 90 V	-	•	•
GV 9300 SV/5	-	•	•	TP 90 V	-	•	•
GV 9400 EURO	-	•	•	TP 90 V	-	•	•
GV 9400 HiFi	-	•	•	TP 90 V	-	•	•
GV 9400 HiFi/5	-	•	•	TP 90 V	-	•	•
GV 9400 NIC	-	•	•	TP 90 V	-	•	•
SE 1102 SV	-	•	•	TP 90 V	-	•	•
SE 1105 HiFi	-	•	•	TP 90 V	-	•	•
SE 1106 HiFi/NIC	-	•	•	TP 90 V	-	•	•
SE 1200 SV	-	•	•	TP 90 V	-	•	•
SE 1205 HiFi	-	•	•	TP 90 V	-	•	•
SE 1206 HiFi/NIC	-	•	•	TP 90 V	-	•	•
SE 9100 SV	-	•	•	TP 90 V	-	•	•
SE 9102 SV	-	•	•	TP 90 V	-	•	•
SE 9105 HiFi	-	•	•	TP 90 V	-	•	•
SE 9106 HiFi/NIC	-	•	•	TP 91 V	-	•	•

## 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 670 S 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 the "OK" button

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 670 S HiFi	GV 690 S HiFi	GV 690 S NIC
		V-insertion On	8 5 1 0	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•
V-insertion Off	8 5 1 1	-	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•
E-to-E Mode (AV2 -> AV1) On	8 5 1 3	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
E-to-E Mode (AV2 -> AV1) Off	8 5 1 4	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Video 1 Control Level	8 5 1 6	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Video 2 Control Level	8 5 1 7	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HF-Modulator Off	8 5 1 8	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
HF-Modulator On	8 5 1 9	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Reception of 10 Bit Code free	8 5 2 6	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Reception of 10 Bit Code blocked	8 5 2 7	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DOS 312/312 lines On (for 50Hz)	8 5 4 6	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DOS 312/313 lines On (for 100Hz)	8 5 4 7	-	-	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
NICAM Test No	8 5 6 0	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	•
NICAM Test Yes	8 5 6 1	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	•

## Continuous Operation and Special Functions: GV 6000 to GV 6596

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

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

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

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

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 the "OK" button

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

Video



### Continuous Operation and Special Functions: GV 709 to GV 7497

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

Function	Code	GV 709 M	GV 729 M	GV 740 HiFi	GV 740 NIC	GV 7000 EURO	GV 7000 SV	GV 7000 SV-C	GV 7003	GV 7300 EURO	GV 7300 SV	GV 7300 SV/5	GV 7400 EURO	GV 7400 HiFi	GV 7400 HiFi/5	GV 7400 NIC	GV 7400 NIC2	GV 7497 NIC
Continuous Recording Prog 1...	8 5 0 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Continuous Recording AV	8 5 0 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Continuous Playback	8 5 0 1	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•

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

Function	Code	GV 709 M	GV 729 M	GV 740 HiFi	GV 740 NIC	GV 7000 EURO	GV 7000 SV	GV 7000 SV-C	GV 7003	GV 7300 EURO	GV 7300 SV	GV 7300 SV/5	GV 7400 EURO	GV 7400 HiFi	GV 7400 HiFi/5	GV 7400 NIC	GV 7400 NIC2	GV 7497 NIC
V-insertion On	8 5 1 0	-	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	•
V-insertion Off	8 5 1 1	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
Switching Voltage at A1 On	8 5 1 3	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
Switching Voltage at A1 Off	8 5 1 4	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
Video 1 Control Level	8 5 1 6	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
Video 2 Control Level	8 5 1 7	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
HF-Modulator Off	8 5 1 8	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
HF-Modulator On	8 5 1 9	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
Reception of 10 Bit Code free	8 5 2 6	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
Reception of 10 Bit Code blocked	8 5 2 7	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
DOS 312/312 lines On (for 50Hz)	8 5 4 6	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•
DOS 312/313 lines On (for 100Hz)	8 5 4 7	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	•

Video

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

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

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

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

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

### Continuous Operation and Special Functions: GV 29, GV 8..., GV 9..., SE 9...

Function	Code	GV 29...	GV 94...	GV 819...	GV 920...	GV 940...	GV 950...	GV 8000...	GV 8300...	GV 8400...	GV 8450...	GV 9000...	GV 9300...	GV 9400...	SE 9100...	SE 9102...	SE 9105...	SE 9106...	
		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Continuous Operation and Special Functions can be activated by the OSD menu

### Continuous Operation and Special Functions: GV 10...GV 60..., SE 11..., SE 12...

Function	Code	GV 1010...	GV 1030...	GV 3000...	GV 3004...	GV 3005...	GV 3006...	GV 3010...	GV 3015...	GV 3042...	GV 3043...	GV 3044...	GV 3045...	GV 5052...	GV 5053...	GV 5054...	GV 6062...	GV 6063...	GV 6065...	SE 1102...	SE 1105...	SE 1106...	SE 1200...	SE 1205...		
		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Continuous Operation and Special Functions can be activated by the OSD menu

## Canceling the Electronic Lock

### 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
- Refit 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 time
- Press the STOP button
- Switch the video recorder off
- Refit 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 time
- Press the STOP button
- Switch the video recorder off
- Refit 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

### GV 280PC, GV 280S

- 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 400, GV 400 GB and GV 400 OST**

- With the video recorder switched off (Standby) 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 "STANDBY" button or disconnect the video recorder from the mains

**GV 402**

- With the video recorder switched off (Standby) 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 "STANDBY" button or disconnect the video recorder from the mains

**GV 410**

- With the video recorder switched off (Standby) 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 "STANDBY" button or disconnect the video recorder from the mains

**GV 411-1**

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

**GV 411-2**

Without parental lock / electronic lock

**GV 411 OST and GV 412**

- With the video recorder switched off (Standby) 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 "STANDBY" button or disconnect the video recorder from the mains

**GV 430 and GV 430 GB**

- With the video recorder switched off (Standby) 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 "STANDBY" 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 "STANDBY" button or disconnect the video recorder from the mains

**GV 4000 VPS and GV 4001**

- With the video recorder switched off (Standby) 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 (Standby) 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, 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 "STANDBY" 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 "STANDBY" button or disconnect the video recorder from the mains

**MV 4005 and MV 4105**

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

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

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

**GV 509 M**

Without child lock / electronic lock

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

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

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

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

**GV 5000 SAA**

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

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

- Press the "STANDBY" button on the remote control handset until "FREE" is indicated on the display of the video 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 "STANDBY" button or disconnect the video recorder from the mains

**GV 5300...**

- Press the "STANDBY" button on the remote control handset until "FREE" is indicated on the display of the video 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 "STANDBY" button or disconnect the video recorder from the mains

**GV 25 SV/5 and GV 45 SV/5**

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

**KV 5001 VPS/5 and KV 5301 VPS/5**

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

**GV 600, GV 630, GV 640..., GV 645..., GV 650..., GV 660..., GV 665..., GV 670..., GV 690..., GV 6096..., GV 6396..., GV 6596...**

- 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 "STANDBY" button or disconnect the video recorder from the mains

**GVP 600 ICN EURO**

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

**GV 740..., GV 745 EURO**

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

**GV 7400...**

- Press and hold down the remote control buttons "STANDBY" and "SELECT" simultaneously until the key symbol disappears from the display of the recorder

**GV 7497 NIC**

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

**GV 29..., GV 94..., GV 9000..., GV 9300...**

- Select the "AV" programme position on the TV set for playing back a recording
- Switch the video recorder on with the ▽ button
- Call up the main menu with the "i INFO" button
- Select "MODE" with the △ ▽ buttons and confirm with the "OK" button
- Select "CHILD LOCK" with the △ ▽ buttons
- Select "OFF" with the ► button and confirm with "OK"

**GV 900..., GV 920 HiFi, GV 940..., GV 950..., GV 1010..., GV 1030..., GV 9400...**

- Press the "STANDBY" button on the remote control handset until the key symbol disappears from the display of the recorder

**GV 3000...GV 3015..., GV 3042...GV 3045, GV 5052...GV5054, GV 6062..., GV 6063...**

- Press the buttons "STANDBY" and "TIMER ON/OFF" simultaneously (Display "----")
- Press the buttons ► ◀ ▽ △ and "OK" in this order.

**GDV Modul 1, GDV 100..., GDV 110**

- Press the button ■ 4 times instead of your code number.

**GDV 120...**

- Enter the numbers 7 8 8 4 4 4 in this order.





**GDV 130...**

- Enter the numbers 8 0 9 5 in this order

**SE 1102..., SE 1105..., SE 1106...**

- Press the "STANDBY" button on the remote control handset until the key symbol disappears from the display of the recorder

**SE 1200..., SE 1205..., SE 1206...**

- Press the buttons "STANDBY" and "TIMER ON/OFF" simultaneously (Display "– – – –")
- Press the buttons     and "OK" in this order.

**SE 5102 SV, SE 5104 SV, SE 5106 HiFi, 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 "STANDBY" button or disconnect the video recorder from the mains

**SE 7104 SV**

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







**SE 7105**

- Press the remote control buttons "STANDBY" and "SELECT" simultaneously until the key symbol disappears from the display of the recorder

**SE 7106 HiFi**

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

**SE 9100...**

- Select the "AV" programme position on the TV set for playing back a recording
- Switch the video recorder on with the  button
- Call up the main menu with the "i INFO" button
- Select "MODE" with the   buttons and confirm with the "OK" button
- Select "CHILD LOCK" with the   buttons
- Select "OFF" with the  button and confirm with "OK"

**SE 9102 SV, SE 9105 HiFi, SE 9106 HiFi/NIC**

- Press the "STANDBY" button on the remote control handset until the key symbol disappears from the display





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

- Press the remote control buttons "STANDBY" and "SELECT" simultaneously until the key symbol disappears from the display of the recorder

**TVR 3700**

- Press and hold down the Stop button on the remote control handset and press the Play button on the video recorder
- Press the "STANDBY" button or disconnect the video recorder from the mains

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

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





**TVR 3735..., TVR 3740...**

- Enter the numbers 7 0 3 8 in this order on the remote control handset

**TVR 4500 and TVR 4510**

- Switch the TVR 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 video recorder to the mains and switch it on
- Interconnect the service test points on the keyboard control unit shortly
- Switch the video recorder off and disconnect it from the mains
- Push the video recorder into the cabinet from the back and connect the cable
- Refit the rear of the cabinet





**TVR 5100, TVR 5130, TVR 5500**

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

**TVR 5510**

- Switch the TVR 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 video recorder to the mains and switch it on
- Interconnect the service test points on the keyboard control unit shortly
- Switch the video recorder off and disconnect it from the mains
- Push the video recorder into the cabinet from the back and connect the cable
- Refit the rear of the cabinet

**TVR 5530**

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

**TVR 5540...**

- Enter the numbers 7 0 3 8 in this order on the remote control handset



### Jigs and Tools for Video Recorders (Part 1)

Designation	Part Number																		
		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	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tentelometer	com. available	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	•	•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S-VHS Adapter Card	75988 039 5500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S-VHS Adapter Cable	75988 039 5400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Designation	Part Number																		
		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	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tentelometer	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Designation	Part Number																		
		GVP 600 ICN EURO																	
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tentelometer	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

\* see Service Manual page 1-2

Video

## Jigs and Tools for Video Recorders (Part 2)

Designation	Part Number																	
		GV 709 M *	GV 729 M *	GV 740 HiFi	GV 740 NIC	GV 7000 EURO	GV 7000 SV	GV 7000 SV-C	GV 7003	GV 7300 EURO	GV 7300 SV	GV 7300 SV/5	GV 7400 EURO	GV 7400 HiFi	GV 7400 HiFi/5	GV 7400 NIC	GV 7400 NIC2	GV 7497 NIC
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tentelometer	com. available	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	-	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Designation	Part Number																	
		GV 819 M *	GV 8000 EURO	GV 8000 GB	GV 8000 SV/1	GV 8000 SV/2	GV 8000 SV/5	GV 8050 SV	GV 8300 EURO	GV 8300 SV	GV 8300 SV/5	GV 8400 EURO	GV 8400 GB	GV 8400 HiFi	GV 8400 HiFi/5	GV 8400 NIC 1	GV 8400 NIC 2	GV 8450 HiFi
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tentelometer	com. available	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Designation	Part Number																
		GV 27	GV 27 EURO	GV 27 VPS/5	GV 47	GV 47 VPS/5	KV 7001 VPS/5	KV 7301 VPS/5	KV 8001 VPS/5	KV 8301 VPS/5	KV 8401 HiFi/5	SE 7100 SV	SE 7104 SV	SE 7105 HiFi	SE 7106 HiFi	SE 8100 SV	SE 8105 HiFi
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tentelometer	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

\* see Service Manual page 1-2

### Jigs and Tools for Video Recorders (Part 3)

Designation	Part Number													
		GV 29...	GV 94...	GV 900...	GV 920 HiFi	GV 940...	GV 950 HiFi/NIC	GV 9000...	GV 9300...	GV 9400....	SE 9100 SV	SE 9102 SV	SE 9105 HiFi	SE 9106 HiFi/NIC
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•
Torque Cassette Meter	75988 047 1200	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75981 311 3200	•	•	•	•	•	•	•	•	•	•	•	•	•
X-value Adjustment Tool	75988 047 1100	-	-	•	•	•	•	-	-	•	•	•	•	•
Tension Gauge	com. available	-	-	•	•	•	•	-	-	•	•	•	•	•
Screwdriver (slotted)	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•
Torque Screwdriver	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•
Hexagon Box Wrench 5.5mm	com. available	-	-	•	•	•	•	-	-	•	•	•	•	•
Slide Gauge	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•

Designation	Part Number																						
		GV 1010 SV/1	GV 1030 HiFi	GV 3000 VPS/1	GV 3000 VPS/2	GV 3004 PDC/EURO	GV 3005 VPS	GV 3006 VPS	GV 3010 SV/1	GV 3010 SV/2	GV 3015 SV	GV 3042 NIC	GV 3043 HiFi	GV 3044 NIC/EURO	GV 3045 HiFi	GV 5052 NIC	GV 5053 HiFi	GV 5054 NIC/EURO	GV 6062 NIC	GV 6063 HiFi	GV 6065 HiFi		
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torque Cassette Meter	75988 047 1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75981 311 3200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
X-value Adjustment Tool	75988 047 1100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tension Gauge	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Screwdriver (slotted)	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torque Screwdriver	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hexagon Box Wrench 5.5mm	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Slide Gauge	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Designation	Part Number						
		SE 1102 SV	SE 1105 HiFi	SE 1106 HiFi/NIC	SE 1200 SV	SE 1205 HiFi	SE 1206 HiFi/NIC
Test Cassette	75988 061 7000	•	•	•	•	•	•
Torque Cassette Meter	75988 047 1200	•	•	•	•	•	•
Torquemeter 600gf-cm	75981 311 3200	•	•	•	•	•	•
X-value Adjustment Tool	75988 047 1100	•	•	•	-	-	-
Tension Gauge	com. available	•	•	•	-	-	-
Screwdriver (slotted)	com. available	•	•	•	•	•	•
Nylon Gloves	com. available	•	•	•	•	•	•
Torque Screwdriver	com. available	•	•	•	•	•	•
Hexagon Box Wrench 5.5mm	com. available	•	•	•	-	-	-
Slide Gauge	com. available	•	•	•	•	•	•

Video

### Jigs and Tools for TVR Combinations

Video

Designation	Part Number																			
		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 3730 Text	TVR 3730 Text/FR	TVR 3730 Text/GB	TVR 3735 FR/TOP	TVR 3735/1 TOP	TVR 3735/2 TOP	TVR 3740 FR/TOP	TVR 3740 FT/GB	TVR 3740/1 TOP	TVR 3740/2 TOP
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Screwdriver (slotted)	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hexagon Box Wrench 5.5mm	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slide Gauge	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tentelometer	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Designation	Part Number																
		TVR 5100	TVR 5100 Text (BA)	TVR 5100 FR	TVR 5100 GB	TVR 5120 FR	TVR 5130 FR	TVR 5130 Text	TVR 5130 Text/GB	TVR 5500	TVR 5500 FR	TVR 5530 Text	TVR 5530 Text/FR	TVR 5540 FR/TOP	TVR 5540 FT/GB	TVR 5540/1 TOP	TVR 5540/2 TOP
Test Cassette	75988 061 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adapter	75987 262 7300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tape Tension Adjustm` t handle+Pin	75988 002 2700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Torquemeter 600gf-cm	75987 262 7200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Adjustment Screwdriver	75987 262 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Headwheel Extractor	75988 002 3700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Screwdriver (slotted)	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nylon Gloves	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hexagon Box Wrench 5.5mm	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slide Gauge	com. available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tentelometer	com. available	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

**Contents: Camcorders**

Modulators and Power Supply Units.....4.2

Accumulators ..... 4.4

Back-up Batteries and Remote Control Transmitters..... 4.6

Sockets and Filter Threads ..... 4.8

Service Manuals .....4.10

– Camcorders .....4.10

– Accessories.....4.12

Camcorder

## Modulators and Power Supply Units

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

Camcorder	Modulator	Part Number	Power Supply	Part Number
LC 400 C	M 45	75987 482 8200	NA 95	75981 320 2700
LC 410 C	M 45	75987 482 8200	NA 95	75981 320 2700
LC 435 E	M 81	75987 553 1100	NA 8-3 *	75981 281 5100
LC 445 E	M 81	75987 553 1100	NA 8-3 *	75981 281 5100
LC 450 SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 460 SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 475 HE	M 81	75987 553 1100	NA 8-3 *	75981 281 5100
LC 485 HE	M 81	75987 553 1100	NA 8-1	75987 553 1000
LC 500 C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 535 E	M 81	75987 553 1100	NA-L 1	75981 335 1200
LC 550 SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 560 SC	M 45	75987 482 8200	NA 96	75981 332 6400
LC 575 E	M 81	75987 553 1100	NA-L 1	75981 335 1200
LC 600 C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 610 C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 635 E	M 81	75987 553 1100	NA 8-5	75981 345 0600
LC 645 E	M 81	75987 553 1100	NA 8-5	75981 345 0600
LC 650 SC	–	–	NA 96	75981 332 6400
LC 675 HE	M 81	75987 553 1100	NA 8-6	75981 353 4800
LC 685 HE	M 81	75987 553 1100	NA 8-6	75981 353 4800
LC 695 SN	M 45	75987 482 8200	NA 190B	75981 348 9000
LC 700 C	M 45	75987 482 8200	NA 96	75981 332 6400
LC 735 E	M 81	75987 553 1100	NA 8-7	75981 355 0400
LC 750 SC	–	–	NA 96	75981 332 6400
LC 760 SC	–	–	NA 96	75981 332 6400
LC 775 HE	M 81	75987 553 1100	NA 8-72	75981 354 6400
LC 785 HE	M 81	75987 553 1100	NA 8-71	75981 354 0200
LC 800 C	–	–	NA 97	75981 361 7600
LC 835 E	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 875 HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 885 HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 900 C	–	–	NA 99	75981 370 0000
LC 935 E	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 975 HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 1000 VC	–	–	NA 99	75981 370 0000
LC 3000 E	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC 5000 HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC-D 80 E	M 81	75987 553 1100	NA-L 1	75981 335 1200
LC-D 100 E	M 81	75987 553 1100	NA-L 2	75981 338 0700
LC-D 200 HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LC-D 300 HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
LCD 6000 HE	M 81	75987 553 1100	NA-L 98	75981 365 1000
DLC 1	–	–	NA-D 1	75981 358 0000
DLC 10	–	–	NA-D 10	75981 368 4500
DLC 20	–	–	NA-L 11	75981 369 8000
DLC 1000	–	–	NA-D1000	75981 379 0000
DLC 1500	–	–	NA-D1000	75981 379 0000
DLC 2000	–	–	NA-D2000	75981 385 7100

\* is optionally replaced by NA-L 1

## Accumulators

Camcorder	Incl.	Data	Part Number	Optional 2nd Accumulator
VS-C 20	BP 20	9,6V/450mAh	75987 447 0800	BP 21, BP 60, BP 80
VS-C 30	BP 20	9,6V/450mAh	75987 447 0800	BP 21, BP 60, BP 80
VS-C 35	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
VS-C 40	BP 60	9,6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
VS-C 45	BP 60	9,6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
VS-C 46	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
VS-C 50	BP 51	9,6V/1100mAh	75987 430 0700	BP 21, BP 51, BP 52, BP 60, BP 80
VS-C 55	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
VS-C 60	BP 60	9,6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
VS-C 70	BP 60	9,6V/1100mAh	75987 457 0200	BP 21, BP 60, BP 80
S-VS-C 75	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
S-VS-C 80	BP 80	9,6V/1400mAh	75987 513 0700	BP 21, BP 60, BP 80
S-VS-C 85	BP 80	9,6V/1400mAh	75987 513 0700	BP 21, BP 60, BP 80
VS 120	BP 121	12V/1000mAh	replacement BP 122	BP 121, BP 122, BP 123
VS 150	BP 151	12V/800mAh	75987 356 6000	BP 151, BP 152
VS 160	BP 122	12V/2000mAh	75987 331 9200	BP 121, BP 122, BP 123
VS 170	BP 122	12V/2000mAh	75987 331 9200	BP 121, BP 122, BP 123
S-VS 180	BP 122	12V/2000mAh	75987 331 9200	BP 121, BP 122, BP 123
VS 4-8	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8000	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8100	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8150	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8250	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8300	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8320	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8500	BP 8-2	6V/2000mAh	75987 525 8300	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
VS 8800	BP 8-5	6V/1800mAh	replacement BP 8-3	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 125 C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 145 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 175 HE	BP 8-5	6V/1800mAh	replacement BP 8-3	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 180 HE	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 210 C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 215 C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 225 C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 230 E	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 232 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 235 E	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 240 E	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 255 SC	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 280 HE	BPL 8-7	7,2V/1000mAh	75981 291 7800	BPL 8-4, BPL 8-7
LC 285 HE	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 290 N	BP 124	12V/2000mAh	75913 210 0000	BP 124
LC 295 SN	BP 124	12V/2000mAh	75913 210 0000	BP 124
LC 310 C	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70
LC 320 C	BP 75	4,8V/1300mAh	75981 304 2600	BP 74, BP 75, BP 85
LC 330 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 335 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 345 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 355 SC	BP 75	4,8V/1300mAh	75981 304 2600	BP 74, BP 75, BP 85
LC 360 SC	BP 65	6V/1200mAh	75987 568 8700	BP 65, BP 70 *
LC 375 HE	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 380 HE	BPL 8-7	7,2V/1000mAh	75981 291 7800	BPL 8-4, BPL 8-7
LC 400 C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 410 C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 435 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 445 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6



Camcorder	Incl.	Data	Part Number	Optional 2nd Accumulator
LC 450 SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 460 SC	BP 75	4,8V/1300mAh	75981 304 2600	BP 74, BP 75, BP 85
LC 475 HE	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 485 HE	BP 8-6	6V/1200mAh	75981 283 9500	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 500 C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 535 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 550 SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 560 SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 575 E	BP 8-1	6V/1000mAh	75987 527 9000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 600 C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 610 C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 635 E	BP 8-8	6V/800mAh	75981 352 5000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 645 E	BP 8-8	6V/800mAh	75981 352 5000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 650 SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 675 HE	BPL 8-8	7,2V/1350mAh	75981 353 4900	BPL 8-8, BPL 8-10, BPL 8-12
LC 685 HE	BPL 8-8	7,2V/1350mAh	75981 353 4900	BPL 8-8, BPL 8-10, BPL 8-12
LC 695 SN	BP 124	12V/2000mAh	75913 210 0000	BP 124
LC 700 C	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 735 E	BP 8-8	6V/800mAh	75981 352 5000	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC 750 SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 760 SC	BP 74	4,8V/1200mAh	75981 320 2600	BP 74, BP 75, BP 85
LC 775 HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC 785 HE	BPL 8-8	7,2V/1350mAh	75981 353 4900	BPL 8-8, BPL 8-10, BPL 8-12
LC 800 C	BP 74	4,8V/1200mAh	75981 358 0300	BP 74, BP 75, BP 85
LC 835 E	BPL8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC 875 HE	BPL8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC 885 HE	BPL8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC 900 C	BPL 99	7,2V/1300mAh	75981 371 0900	BPL 99
LC 935 E	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC 975 HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC 1000 VC	BPL 99	7,2V/1300mAh	75981 371 0900	BPL 99
LC 3000 E	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC 5000 HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC-D 80 E	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC-D 100 E	BP 8-4	6V/1400mAh	75987 553 2200	BP 8-1, BP 8-2, BP 8-3, BP 8-4, BP 8-5, BP 8-6
LC-D 200 HE	BPL8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
LC-D 300 HE	BPL 8-10	7,2V/700mAh	75981 356 5200	BPL 8-8, BPL 8-10, BPL 8-12
LCD 6000 HE	BPL 8-10	7,2V/700mAh	75981 354 6500	BPL 8-8, BPL 8-10, BPL 8-12
DLC 1	BPL 97	7,2V/1255mAh	75981 358 0100	BPL 97
DLC 10	BPL 98	7,2V/800mAh	75981 368 4700	BPL 98
DLC 20	BPL 98	7,2V/800mAh	75981 368 4700	BPL 98
DLC 1000	BPL 1000	7,2V/800mAh	75981 388 2500	BPL 1000
DLC 1500	BPL 1000	7,2V/800mAh	75981 388 2500	BPL 1000
DLC 2000	BPL 2000	7,4/1100mAh	75981 385 7200	BPL 2000

Extra accessory: BP 8-3	6V/2400mAh	75909 310 0000
Extra accessory: BP 52	9.6V/1400mAh	75987 430 1200
Extra accessory: BP 70	6V/2400mAh	75909 610 0000
Extra accessory: BP 85	4.8V/2600mAh	75913 510 0000
Extra accessory: BP 123	12V/2300mAh	75909 710 0000
Extra accessory: BPL 8-4	7.2V/1200mAh	75981 291 7800
Extra accessory: BPL 8-12	7.2V/1500mAh	75981 356 5200

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

## Back-up Batteries and Remote Control Transmitters

Camcorder	Back-up Battery	RC Transmitter	Part Number	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	CR 2032	-	-	-
VS-C 60	LR 1130	-	-	-
VS-C 70	LR 1130	-	-	-
S-VS-C 75	CR 2032	-	-	-
S-VS-C 80	LR 1130	-	-	-
S-VS-C 85	CR 2032	-	-	-
VS 150	-	-	-	-
VS 160	3 x Micro (AAA)	-	-	-
VS 170	LR 1130	-	-	-
S-VS 180	LR 1130	-	-	-
VS 8000	CR 2025	-	-	-
VS 8100	CR 2025	-	-	-
VS 8150	CR 2025	RC 8-2	75987 580 0200	2 x Mignon
VS 8250	CR 2025	RC 8-2	75987 580 0200	2 x Mignon
VS 8300	CR 2025	-	-	-
VS 8320	CR 2025	-	-	-
VS 8500	CR 2025	-	-	-
VS 8800	CR 2025	RC 8-1	75987 559 0200	2 x Mignon
LC 125 C	CR 2032	-	-	-
LC 145 E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 175 HE	CR 2025	RC 8-3	75987 585 0700	2 x Mignon
LC 180 HE	CR 2025	RC 8-5	75981 271 1900	2 x Mignon
LC 210 C	CR 2032	-	-	-
LC 215 C	CR 2032	-	-	-
LC 225 C	CR 2032	-	-	-
LC 230 E	CR 2025	RC 8-6	75987 585 0700	CR 2025
LC 232 E	CR 2025	-	-	-
LC 235 E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 240 E	CR 2025	RC 8-7	75981 282 1500	2 x Mignon
LC 255 SC	CR 2032	-	-	-
LC 280 HE	CR 2025	RC 8-9	75981 291 6600	CR 2025
LC 285 HE	CR 2025	RC 8-8	75981 284 1000	CR 2025
LC 290 N	Lithium battery *	-	-	-
LC 295 SN	Lithium battery *	-	-	-
LC 310 C	CR 2032	-	-	-
LC 320 C	CR 2032	-	-	-
LC 330 E	CR 2025	-	-	-
LC 335 E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 345 E	CR 2025	RC 8-4	75981 273 0100	2 x Mignon
LC 355 SC	CR 2032	-	-	-
LC 360 SC	Lithium battery *	-	-	-
LC 375 HE	CR 2025	RC 8-7	75981 282 1500	2 x Mignon
LC 380 HE	CR 2025	RC 8-9	75981 291 6600	CR 2025

Camcorder	Back-up Battery	RC Transmitter	Part Number	Transmitter Battery
LC 400 C	Lithium battery *	—	—	—
LC 410 C	Lithium battery *	—	—	—
LC 435 E	CR 2025	—	—	—
LC 445 E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 450 SC	Lithium battery *	—	—	—
LC 460 SC	Lithium battery *	—	—	—
LC 475 HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 485 HE	CR 2025	RC 8-10	75981 322 0700	2 x Mignon
LC 500 C	Lithium battery *	—	—	—
LC 535 E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 550 SC	VL 2020 *	RC 500	75981 342 3800	CR 2025
LC 560 SC	VL 2330 *	RC 500	75981 342 3800	CR 2025
LC 575 E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 600 C	VL 2330/1HF *	—	—	—
LC 610 C	VL 2020/1HF *	RC 500	75981 342 3800	CR 2025
LC 635 E	CR 2025	—	—	—
LC 645 E	CR 2025	RC 6E	75981 346 0400	2 x Mignon
LC 650 SC	VL 2330/1HF *	RC 500	75981 342 3800	CR 2025
LC 675 HE	CR 2025	—	—	—
LC 685 HE	CR 2025	RC 6HE	75981 351 0500	2 x Mignon
LC 695 SN	VL 2020 *	—	—	—
LC 700 C	VL 2330/1HF *	—	—	—
LC 735 E	CR 2025	RC 6E	75981 346 0400	2 x Mignon
LC 750 SC	VL 2020/1HF *	RC 500	75981 342 3800	CR 2025
LC 760 SC	VL 2020/1HF *	RC 500	75981 342 3800	CR 2025
LC 775 HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 785 HE	CR 2025	RC 6HE	75981 351 0500	2 x Mignon
LC 800 C	ML 2020 *	—	—	—
LC 835 E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 875 HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 885 HE	CR 2025	RC 6HE	75981 351 0500	2 x Mignon
LC 900 C	ML 2020 *	—	—	—
LC 935 E	CR 2025	—	—	—
LC 975 HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 1000 VC	CR 2025	—	—	—
LC 3000 E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC 5000 HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC-D 80 E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC-D 100 E	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC-D 200 HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
LC-D 300 HE	CR 2025	RC 8-11	75981 373 1200	2 x Mignon
LCD 6000 HE	CR 2025	RC 8-11	75981 328 0500	2 x Mignon
DLC 1	VL 2020/1HF *	RC 700	75981 357 4300	CR 2025
DLC 10	VL 2020/1HF *	RC 10	75981 368 2200	CR 2025
DLC 20	VSB0407 *	TP 70 V	75981 369 8600	2 x Mignon
DLC 1000	ML 920 S *	TP 72 V	75981 357 4300	CR 2025
DLC 1500	ML 920 S *	TP 72 V	75981 357 4300	CR 2025
DLC 2000	CR 2025	TP 71 V	75981 385 7000	CR 2025

\* Soldered into the camcorder

## Sockets and Filter Threads

Camcorder	Socket	Signal	Digital Video		S-Video		Video		Audio (Stereo)		RC (REC)		Microphone (Mono)		Earphones		VTC		FilterThread		
			IEEE 1394	Jack	Hosiden	10-pol AV/S	BNC	1 x Cinch	10-pol AV/S	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 Edit		2.5mm Jack	2.5mm Jack
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								•											1)	-	
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 125 C								•												37 mm	
LC 145 E				•				•												37 mm	
LC 175 HE				•				•												46 mm	
LC 180 HE				•				•												37 mm	
LC 210 C								•												49 mm	
LC 215 C								•											•	49 mm	
LC 225 C								•												37 mm	
LC 230 E								•												46 mm	
LC 232 E								•												37 mm	
LC 235 E								•												37 mm	
LC 240 E								•												37 mm	
LC 255 SC				•				•												37 mm	
LC 280 HE				•				•												37 mm	
LC 285 HE				•				•												52 mm	
LC 290 N								•											•	49 mm	
LC 295 SN				•				•										1)	2)	49 mm	
LC 310 C								•												49 mm	
LC 320 C								•												37 mm	
LC 330 E								•												37 mm	
LC 335 E								•												-	
LC 345 E								•												37 mm	
LC 355 SC				•				•											2)	37 mm	
LC 360 SC				•				•												43 mm	
LC 375 HE				•				•												37 mm	

Camcorder	Socket		Signal		S-Video		Video		Audio (Stereo)		RC (REC)		Microphone (Mono)		Earphones		FilterThread				
	IEEE 1394	Jack	Digital Video	Digital Video	Hosiden	10-pol AV/S	BNC	1 x Cinch	10-pol AV/S	8-pin AV/S	8-pin Movie	8-pin Movie	4-pin Jack	1 x Cinch	2 x Cinch	2.5mm Jack		2.5mm Jack	3.5mm Jack	10-pin Socket	10-pin Socket
LC 380 HE					•			•													37 mm
LC 400 C								•													37 mm
LC 410 C								•													37 mm
LC 435 E								•													37 mm
LC 445 E								•													37 mm
LC 450 SC					•			•													37 mm
LC 460 SC					•			•													37 mm
LC 475 HE					•			•													37 mm
LC 485 HE					•			•													37 mm
LC 500 C								•													37 mm
LC 535 E								•													37 mm
LC 550 SC					•			•													43 mm
LC 560 SC					•			•													43 mm
LC 575 E					•			•													37 mm
LC 600 C								•													43 mm
LC 610 C								•													43 mm
LC 635 E								•													37 mm
LC 645 E								•													37 mm
LC 650 SC					•																43 mm
LC 675 HE					•			•													37 mm
LC 685 HE					•			•													52 mm
LC 695 SN					•			•										1)	2)	•	49 mm
LC 700 C								•													43 mm
LC 735 E								•													37 mm
LC 750 SC					•			•													43 mm
LC 760 SC					•			•												2)	43 mm
LC 775 HE					•			•													37 mm
LC 785 HE					•			•													52 mm
LC 800 C								•													43 mm
LC 835 E								•													37 mm
LC 875 HE					•			•													37 mm
LC 885 HE					•			•													52 mm
LC 900 C								•													43 mm
LC 935 E								•													37 mm
LC 975 HE					•			•													37 mm
LC 1000 VC								•													43 mm
LC 3000 E								•													37 mm
LC 5000 HE					•			•													37 mm
LC-D 80 E								•													52 mm
LC-D 100 E								•													37 mm
LC-D 200 HE					•			•													37 mm
LC-D 300 HE					•			•													37 mm
LCD 6000 HE								•													37 mm
DLC 1	•				3)		3)					3)			3)						30,5 mm
DLC 10	•	•			•			•													43 mm
DLC 20	•	•			•			•													43 mm
DLC 1000	•	•			•			•													43 mm
DLC 1500	•	•			•			•													43 mm
DLC 2000	•				•			•													37 mm

1) Built-in loudspeaker 2) Built-in VITC Generator 3) At connecting box JB1 (included in the delivery)

## Camcorder Service Manuals

Camcorder	Part Number	Kind of Manual
LC 125 C	72010 510 8000	Service Manual
LC 145 E	72010 510 8500 72010 508 6500	Service Manual FL-Mechanics
LC 175 HE	72010 510 5500 72010 507 9500	Service Manual U-Mechanics
LC 180 HE	72010 511 1000 72010 508 6500	Service Manual FL-Mechanics
LC 210 C	72010 511 5000	Service Manual
LC 215 C	72010 511 5500	Service Manual
LC 225 C	72010 512 2500	Service Manual
LC 230 E	72010 510 4500 72010 511 1500 72010 507 9500	Service Manual Supplement U-Mechanics
LC 232 E	72010 511 9000 72010 512 1600	Service Manual A-Mechanics
LC 235 E	72010 513 2500 72010 513 2600 72010 512 1600	Service Manual Supplement 1 A-Mechanics
LC 240 E	72010 512 1500 72010 512 1600	Service Manual A-Mechanics
LC 255 SC	72010 511 6000	Service Manual
LC 280 HE	72010 512 2000 72010 508 6500	Service Manual FL-Mechanics
LC 285 HE	72010 512 6000 72010 508 6500	Service Manual FL-Mechanics
LC 290 N	72010 512 3500	Service Manual
LC 295 SN	72010 512 7000	Service Manual
LC 310 C	72010 513 2000	Service Manual
LC 320 C	72010 514 5500	Service Manual
LC 330 E	72010 511 9000 72010 514 3000 72010 512 1600	Service Manual Supplement A-Mechanics
LC 335 E	72010 513 2500 72010 514 7000 72010 512 1600	Service Manual Supplement A-Mechanics
LC 345 E	72010 513 1000 72010 512 1600	Service Manual A-Mechanics
LC 355 SC	72010 514 7500	Service Manual
LC 360 SC	72010 513 1500	Service Manual
LC 375 HE	72010 513 0500 72010 512 1600	Service Manual A-Mechanics
LC 380 HE	72010 512 2000 72010 513 0000 72010 512 1600	Service Manual Supplement A-Mechanics
LC 400 C	72010 515 9000	Service Manual
LC 410 C	72010 515 9000	Service Manual
LC 435 E	72010 516 4500 72010 512 1600	Service Manual A-Mechanics
LC 445 E	72010 516 5500 72010 512 1600	Service Manual A-Mechanics
LC 450 SC	72010 516 9500	Service Manual
LC 460 SC	72010 517 0000	Service Manual
LC 475 HE	72010 516 5500 72010 512 1600	Service Manual A-Mechanics
LC 485 HE	72010 515 9500 72010 512 1600	Service Manual A-Mechanics
LC 500 C	72010 518 7500 72010 519 6000	Service Manual DL-Mechanics
LC 535 E	72010 518 7000 72010 512 1600	Service Manual A-Mechanics
LC 550 SC	72010 519 7000 72010 519 6000	Service Manual DL-Mechanics

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

Camcorder	Part Number	Kind of Manual
LC 560 SC	72010 519 6500	Service Manual
	72010 519 6000	DL-Mechanics
LC 575 HE	72010 518 6500	Service Manual
	72010 512 1600	A-Mechanics
LC 600 C	72010 524 2500	Service Manual
	72010 519 6000	DL-Mechanics
LC 610 C	72010 524 4500	Service Manual
	72010 519 6000	DL-Mechanics
LC 635 E	72010 524 3000	Service Manual
	72010 525 0500	B-Mechanics
LC 645 E	72010 524 3500	Service Manual
	72010 525 0500	B-Mechanics
LC 650 SC	72010 525 4500	Service Manual
	72010 519 6000	DL-Mechanics
LC 675 HE	72010 525 5000	Service Manual
	72010 525 0500	B-Mechanics
LC 685 HE	72010 525 5500	Service Manual
	72010 525 0500	B-Mechanics
LC 695 SN	72010 524 4000	Service Manual
LC 700 C	72010 529 5000	Service Manual
	72010 519 6000	DL-Mechanics
LC 735 E	72010 529 4500	Service Manual
	72010 525 0500	B-Mechanics
LC 750 SC	72010 530 9000	Service Manual
	72010 519 6000	DL-Mechanics
LC 760 SC	72010 530 9000	Service Manual
	72010 519 6000	DL-Mechanics
LC 775 HE	72010 529 4000	Service Manual
	72010 525 0500	B-Mechanics
LC 785 HE	72010 525 0500	Service Manual
	72010 529 3500	Supplement
	72010 525 0500	B-Mechanics
LC 800 C	72010 532 1500	Service Manual
	72010 519 6000	DL-Mechanics
LC 835 E	72010 532 1000	Service Manual
	72010 525 0500	B-Mechanics
LC 875 HE	72010 532 1000	Service Manual
	72010 525 0500	B-Mechanics
LC 885 HE	72010 532 0000	Service Manual
	72010 525 0500	B-Mechanics
LC 900 C	72010 530 8000	Service Manual
	72010 519 6000	DL-Mechanics
LC 935 E	72010 535 0000	Service Manual
	72010 525 0500	B-Mechanics
LC 975 HE	72010 535 0500	Service Manual
	72010 525 0500	B-Mechanics
LC 1000 VC	72010 538 4000	Service Manual
	72010 538 2700	CZ-Mechanics
LC 3000 E	72010 538 3000	Service Manual
	72010 525 0500	B-Mechanics
LC 5000 HE	72010 538 3000	Service Manual
	72010 525 0500	B-Mechanics
LC-D 80 E	72010 517 1500	Service Manual
	72010 512 1600	A-Mechanics
LC-D 100 E	72010 518 6000	Service Manual
	72010 512 1600	A-Mechanics
LC-D 200 HE	72010 531 9000	Service Manual
	72010 525 0500	B-Mechanics
LC-D 300 HE	72010 535 1000	Service Manual
	72010 525 0500	B-Mechanics

Observe also the Instructions given in the Safety Service Manual Part No. 72010 800 0000!

Camcorder	Part Number	Kind of Manual
LCD 6000 HE	72010 538 3000	Service Manual
	72010 525 0500	B-Mechanics
DLC 1	1)	–
DLC 10	1)	–
DLC 20	1)	–
DLC 1000	1)	–
DLC 1500	1)	–
DLC 2000	1)	–

1) Central repair

## Service Manuals – Camcorder Accessories

Accessories	Part Number	Kind of Manual
LCS 8-4	72010 514 4500	Service Manual
NA 8	72010 507 6500	Service Manual
NA 8-1	72010 507 6600	Service Manual
NA 8-2	72010 510 2500	Service Manual
NA 8-3	72010 512 6500	Service Manual
NA 8-4	72010 512 9500	Service Manual
NA 75	72010 509 3000	Service Manual
NA 75A	72010 510 1000	Service Manual
NA 75B	72010 511 5500	Service Manual
NA 85	72010 514 0000	Service Manual
NA 90	72010 514 6000	Service Manual
NA 95	72010 516 2500	Service Manual
NA 96	72010 517 5000	Service Manual
NA 96C	72010 519 5500	Service Manual
NA 96D	72010 517 5100	Service Manual
NA 97	72010 531 6500	Service Manual
NA 99	72010 534 8100	Service Manual
NA 190A	72010 512 5500	Service Manual
NA 190A	72010 524 9000	Service Manual
NA-L1	72010 517 5500	Service Manual



## Contents: Satellite Reception

Module Chart .....	5.2
Retrofitting Options for Grundig Satellite Receivers .....	5.4
Cassettes for Extension of the STC 8xx Head Station .....	5.4
Accessories for the STC 1600 Head Station .....	5.5
Accessories for the STC 1650 Head Station .....	5.5
Cassettes for Extension of the STC 1200 Head Station .....	5.6
New Generation of Cassettes for the STC880/80 and STC 1200 Head Stations .....	5.8
Cassettes for Extension of the STC 332 and STC 1200 Head Stations .....	5.9
Cassettes for Extension of the STC 1880 Head Station .....	5.10
Tele-Pilot® Remote Control Handsets / Overview.....	5.11
Special Functions of Satellite Receivers (Options) .....	5.12
Service Manuals for Satellite Receivers .....	5.13

## Modul Chart

Designation	Part No.	HCM 814	HCM 893	HRM 810	HRM 811	HRM 851	HRM 852	HRM 854	HRM 858 (a)	HRM 861	HRM 864	HRM 883
Tuner (Terr.)	29504 101 2300	•			•							
Tuner	29504 101 6300											
Tuner	29504 201 2400		2)									
Tuner	29504 201 6100					•	•	•	•	•	•	
Tuner	29504 201 6200											
Tuner	29504 201 7300											
Tuner	29504 201 7400											
Tuner	29504 201 7700											2)
Tuner	29504 201 8700											
Tuner	29504 201 8800											
Tuner	75990 900 3000											
Tuner	75990 900 3100											
Tuner	75990 900 4200											
Tuner	75954 705 3000											
Tuner	75954 705 3100											
Tuner	75954 705 6600											
Tuner	75954 705 8100											
Tuner	75954 705 9900											
Tuner	75955 023 7200											
Tuner	81406 016 2500											
Tuner	81406 016 2800											
Modulator	29502 017 0500			•								
Modulator	29502 017 0600						•					
Modulator	29502 017 1200				•							
Modulator	29502 017 1300				•							
Modulator	29502 017 5100								1)			
Modulator	29502 017 5200								1)			
Modulator	29502 017 5300							•				
Modulator	29502 017 5500									•		
Modulator	29502 017 5800									•		
Modulator	29502 017 6000											2)
Modulator	29502 017 6200	•										
Modulator	29502 017 6500		2)									
Modulator	29502 025 4500											
Modulator	75954 705 9800											
Modulator	75955 023 7300											
Modulator	75990 900 3100											
Modulator	75990 900 4300											
Modulator	81406 017 2500											
PLL-Modulator	29502 025 3100											
PLL-Modulator UHF	29502 025 3600											
PLL-Modulator VHF	29502 025 3700											

1) HRM 858: 017 5100, HRM 858a: 017 5200

2) 2 for each cassette

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

4) mechanically different versions

Designation	Part No.	STC 1650	STR 100	STR 100 DX	STR 110	STR 1300	STR 2300	STR 2300 MV	STR 400 AP	STR 511	STR 512	STR 600	STR 611	STR 6000	STR 6100	STR 6122	STR 622	STR 631	STR 632	STR 641	STR 642	STR 7100	STR 7122 TWIN	VCR SAT1		
		Tuner (Terr.)	29504 101 2300																							
Tuner	29504 101 6300																									
Tuner	29504 201 2400																									
Tuner	29504 201 6100																									
Tuner	29504 201 6200									•																
Tuner	29504 201 7300	•								•																
Tuner	29504 201 7400										•															
Tuner	29504 201 7700		•																							
Tuner	29504 201 8700			•	•																					
Tuner	29504 201 8800											•	•					•								
Tuner	75990 900 3000																		•							
Tuner	75990 900 3100																						4)			
Tuner	75990 900 4200																			•			4)			
Tuner	75954 705 3000																						4)			
Tuner	75954 705 3100																						4)			
Tuner	75954 705 6600							•	•															•		
Tuner	75954 705 8100																								•	
Tuner	75954 705 9900																									
Tuner	75955 023 7200														•											
Tuner	81406 016 2500					•										•										
Tuner	81406 016 2800																									•
Modulator	29502 017 0500																									
Modulator	29502 017 0600																									
Modulator	29502 017 1200																									
Modulator	29502 017 1300																									
Modulator	29502 017 5100																									
Modulator	29502 017 5200																									
Modulator	29502 017 5300																									
Modulator	29502 017 5500																									
Modulator	29502 017 5800																									
Modulator	29502 017 6000																									
Modulator	29502 017 6200																									
Modulator	29502 017 6500																									
Modulator	29502 025 4500											•	•						•							
Modulator	75954 705 9800																							•	•	
Modulator	75955 023 7300														•											
Modulator	75990 900 3100																			•			•			
Modulator	75990 900 4300																				•		•			
Modulator	81406 017 2500															•										
PLL-Modulator	29502 025 3100									•	•	•														
PLL-Modulator UHF	29502 025 3600	3)																								
PLL-Modulator VHF	29502 025 3700	3)																								

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

SAT

## Retrofitting Options for Grundig Satellite Receivers

### Descrambler Retrofit Kit DNS 850 C:

15-pin Sub-Min-D socket incl. the necessary electronics, retrofittable to the cassettes HRM 851, 852, 853, 854, 855, 857, 858, 858a, 859, 861, 864, 883.

Order no.: GAY 4300 (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

##### HRM 800

Order no.: GAV 70

(input range 950-1750 MHz)

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

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

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

##### HRM 801

Order no.: GAV 9200

##### HRM 802

Order no.: GAV 9300

output: UHF (C21 - C40) Mono

##### HRM 805

Order no.: GAV 9800

output: VHF- OIRT (R6 - R12) Mono

#### SAT - TV Cassettes

##### HRM 851

Order no.: GAX 9600

(input range 950-2050 MHz)

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

##### HRM 852

Order no.: GAX 9700

output: UHF (C21 - C40) Mono

##### HRM 858

Order no.: GAX 7300

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

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

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

##### HRM 858a

Order no.: GAY 4200

(replaces cassette HRM 858)

##### HRM 854

Order no.: GAY 4100

output: Hyperband (S21 - S41) Stereo

##### HRM 861

Order no.: GAZ 2300

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

##### HRM 864

Order no.: GAZ 2200

output: Band IV (C21- C40) Stereo

##### HRM 866

Order no.: GAD 9700

output: Band IV (C41 - C57) Stereo

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

##### HRM 883

Order no.: GAY 8000

(input range 950-2150 MHz)

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

##### HRM 883-2

Order no.: GAC 3000

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

(with the possibility of connecting 2 descramblers)

**Terrestrial Cassettes**

**HRM 810** input: C2...C4/C5...C12/C21...C69  
 Order no.: GAV 9500 output: Band III (C5...C12) and (S8\*...S20)

**HRM 811** input: C2...C4/C5...C12/C21...C69  
 Order no.: GAW 1700 output: Band I (C2, 3, 4)

**HRM 815** input: R1...R12/R21...R69  
 Order no.: GAX 1800 output: R6...R12/S8...S20

**HCM 814** input: C2...C4/C5...C12/C21...C69  
 Order no.: GAC 1200 output: Band IV (C21...C40)

**Terrestrial Twin Cassettes**

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

**UKW Cassette**  
**HRM 825FM** input: 87...108 MHz  
 Order no.: GAW 8800 output: 87...108 MHz

**HCM 826/4** input: 87.5...108 MHz  
 Order no.: GAC 9000 output: 87.5...108 MHz  
 (stations are selectively converted)

**ADR - UKW Cassette**  
**HRM 824/2 ADR** input: 950...2150 MHz  
 Order no.: GAE 1600 output: 87.5...108 MHz

**Digital Converter Cassettes:**

**HDM 100C** input: 950...2150 MHz  
 Order no.: GAD 3700 output: S21...S41  
 (converts a digital package from QPSK to QAM)

**HDM 100P** input: 950...2150 MHz  
 Order no.: GAD 3600 output: C5...C12 and S3...S30  
 (converts a station from a digital package to an analog Pal signal)

**Accessories for the STC 1600 Head Station**

**ZAN 1600** retrofit kit for connection of a second dish aerial  
 Order no.: GAY 7700

**FMN 1600** FM amplifier retrofit 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

## Cassettes for Extension of the STC 1200 Head Station

### Terrestrial Cassettes

<b>HRM 810</b> Order no.: G.AV 9500	input: C2-C12, C21-C69 output: C5-C12, S8-S20 CCIR
<b>HRM 811</b> Order no.: G.AW 1700	input: C2-C12, C21-C69 output: C2-C4 CCIR
<b>HRM 815</b> Order no.: G.AX 1800	input: R1-R12, C21-C69 Z1-Z16, D1-D57 output: R6-R12, S4-S17 OIRT Z6-Z16, D6-D57 China
<b>HCM 814</b> Order no.: G.AC 1200	input: C2-C12, C21-C69 output: C21-C40 CCIR
<b>HCM 893</b> Order no.: G.AD 0800	input: C2-C69, S2-S41, 48.25-855.25 MHz output: C5-C12, S3-S30 CCIR
<b>HCM 895</b> Order no.: G.AD 0700	input: R1-R12, C21-C69, s1-s38 Z1-Z38, D1-D57 output: R6-R12, S4-S27 OIRT D6-D12 Z2-Z26 China

### UKW Cassettes

<b>HRM 820</b> Order no.: G.AV 9400	input: 950-1750 MHz output: 118 MHz
<b>HRM 824/2 FM</b> Order no.: G.AE 1600	input: 950-2150 MHz output: 87.5-108 MHz
<b>HRM 825</b> Order no.: G.AW 8800	input: 87.5-108 MHz output: 87.5-108 MHz
<b>HCM 826/4</b> Order no.: G.AC 9000	input: 87.5-108 MHz output: 87.5-108 MHz

### AV Converter Cassettes

<b>HRM 831 AV</b> Order no.: G.AZ 9600	input: Video + Audio output: C2-C4 CCIR
<b>HRM 834 AV</b> Order no.: G.AC 1100	input: Video + Audio output: C21-C40 CCIR
<b>HRM 836 AV</b> Order no.: G.AD 9200	input: Video + Audio output: S21-S41 CCIR

### SAT-TV Cassettes

<b>HRM 851</b> Order no.: G.AX 9600	input: 950-2050 MHz output: C2-C4 CCIR
<b>HRM 852</b> Order no.: G.AX 9700	input: 950-2050 MHz output: C21-C40 CCIR
<b>HRM 853</b> Order no.: G.AX 8800	input: 950-2050 MHz output: C21-C40 Secam-L
<b>HRM 854</b> Order no.: G.AY 4100	input: 950-2050 MHz output: S21-S41 CCIR

### Single SAT Cassettes

<b>HRM 855</b> Order no.: G.AX 9800	input: 950-2050 MHz output: R6-R12, S4-S17 OIRT D6-D12, Z6-Z16 China
<b>HRM 857</b> Order no.: G.AY 0100	input: 950-2050 MHz output: C21-C40 OIRT D13-D27 China
<b>HRM 858</b> Order no.: G.AX 7300	input: 950-2050 MHz output: C5-C12, S8-S20 CCIR
<b>HRM 858 A</b> Order no.: G.AY 4200	input: 950-2050 MHz output: C5-C12, S4-S20 CCIR
<b>HRM 859</b> Order no.: G.AY 0200	input: 950-2050 MHz output: R1-R5, D1-D5 OIRT
<b>HRM 863</b> Order no.: G.AY 9900	input: 950-2050 MHz output: C41-C57 Secam-L
<b>HRM 861</b> Order no.: G.AZ 2300	input: 950-2050 MHz output: C2-C4 CCIR
<b>HRM 864</b> Order no.: G.AZ 2200	input: 950-2050 MHz output: C21-C40 CCIR
<b>HRM 866</b> Order no.: G.AD 9700	input: 950-2050 MHz output: C41-C57 CCIR

### Twin SAT Cassettes

<b>HRM 883</b> Order no.: G.AY 8000	input: 950-2050 MHz, (2150 MHz) output: C5-C12 S3-S30 CCIR
<b>HRM 883-2</b> Order no.: G.AC 3000	input: 950-2150 MHz output: C5-C12, S3-S30 CCIR
<b>HRM 885</b> Order no.: G.AC 6700	input: 950-2050 MHz, (2150 MHz) output: R6-R12, S2-S27 CCIR Z6-Z26, D6-D12 China

### Digital Converter Cassettes

<b>HDM 100 P</b> Order no.: G.AD 3600	input: 950-2150 MHz output: C5-C12, S3-S30 CCIR
<b>HDM 100 C</b> Order no.: G.AD 3700	input: 950-2150 MHz output: S21-S41 QAM

## New Generation of Cassettes for the STC 880/80 and STC 1200 Head Stations

Since April 1999, the series 8 cassettes have been gradually replaced by the new series 3 types.

The differences between series 3 cassettes and their preceding types are as follows:

1. Introduction of the 5V technology to reduce the power consumption.
2. Application of a new generation of modulators.
3. Improved S/N ratio of the individual cassette resulting in an improvement of the total system and allowing to cascade more amplifiers.
4. Mechanically shortened fixing rail. The delivery includes an extension clip to fasten the cassette to the STC 880 Head Station.

### Overview of the new series 3 cassettes:

Cassette	Function	Replacing	Software Version STC 1200	Software Version STC 880/80
HRM 331	TWIN SAT Cassette, conversion to C2-C4 or S3-S24 incl. C5-K12	HRM861 HRM858A	03	27
HRM 333	TWIN SAT Cassette, conversion to S3-S24 incl. C5-C12	HRM883	03	cannot be used for STC 880/80
HRM 333 A	T TWIN SAT Cassette, conversion to S3-S24 incl. C5-C12	HRM883	03	27
HRM 334	TWIN SAT Cassette, conversion to S21-S41	HRM854	03	27
HRM 335	TWIN SAT Cassette, conversion to C21-C69	HRM864 HRM866	03	cannot be used for STC 880/80
HRM 335 A	TWIN SAT Cassette, conversion to C21-C69	HRM864 HRM866	03	27
HRM 325	UKW Cassette, frequency range 87-108 MHz	HRM825	01	01
HRM 395	Terr. TWIN Cassette, conversion to C21-C69		04	27
HDM 303 P	Dig. Cassette (QPSK-PAL), conversion of a dig. program to S3-S30 incl. C5-C12	HDM100P	01	25
HDM 305 P	Dig. Cassette (QPSK-PAL), conversion of a dig. program to C21-C69		03	27
HDM 314 C	Dig. Cassette (QPSK-QAM), conversion of a transponder to S21-S41	HDM100C	01	25

Application of the new cassettes is possible provided that the software version of the keyboard control processor is  $\geq$  "27" for STC 880/80 Head Stations or  $\geq$  "03" for the STC 1200 Head Station.

The software version can be called up by pressing any two keys on the keyboard panel simultaneously. In this mode, all pixels of the display will be driven first (display dark). Subsequently, the version number appears on the display.

The last two figures of this number indicate the software version ("I x 01-306.27").



## Cassettes for Extension of the STC 332 and STC 1200 Head Stations

### Terrestrial Twin Cassettes

<b>HRM 331</b> Order no.: G.AE 8300	input: output:	950-2150 MHz C2-C4, S3-S24, C5-C12, 48.25 MHz - 327.25 MHz, CCIR,
<b>HRM 333 A</b> Order no.: G.AE 9700	input: output:	950-2150 MHz C5-C12, S3-S24, 119.25 MHz - 327.25 MHz, CCIR
<b>HRM 334</b> Order no.: G.AE 8400	input: output:	950-2150 MHz S21-S41, 303.25 MHz - 463.25 MHz, CCIR
<b>HRM 335 A</b> Order no.: G.AE 9800	input: output:	950-2150 MHz C21-C69, 471.25 MHz - 855.25 MHz, CCIR
<b>HRM 341</b> Order no.: G.AF 0100	input: output:	950-2150 MHz R1-R5, S2-S21, R6-R12, 49.75 MHz - 327.25 MHz, OIRT (multi-norm)
<b>HRM 343</b> Order no.: G.AF 0200	input: output:	950-2150 MHz R6-R12, S2-S2, 119.25 MHz - 327.25 MHz, OIRT (multi-norm)
<b>HRM 345</b> Order no.: G.AF 0300	input: output:	950-2150 MHz C21-C69, 471.25 MHz - 855.25 MHz, OIRT (multi-norm)

### UKW Cassettes

<b>HRM 324/2</b> Order no.: G.AF 4700	input: output:	950-2150 MHz 87.5-108 MHz
<b>HRM 325</b> Order no.: G.AE 6300	input: output:	87.5-108 MHz 87.5-108 MHz
<b>HRM 326/4</b> Order no.: G.AE 6400	input: output:	87.5-108 MHz 87.5-108 MHz

### Terrestrial Cassettes (CCIR)

<b>HRM 391</b> Order no.: G.AF 2400	input: output:	C2-C12, S2-S41, C21-C69, 48.25 - 855.25 MHz C2-C4, S3-S24, C5-C12, 48.25 MHz - 327.25 MHz
<b>HRM 393</b> Order no.: G.AF 2500	input: output:	C2-C12, S2-S41, C21-C69, 48.25 - 855.25 MHz C5-C12, S3-S24, 119.25 MHz - 327.25 MHz
<b>HRM 394</b> Order no.: G.AF 2100	input: output:	C2-C12, S2-S41, C21-C69, 48.25 - 855.25 MHz S21-S41, 303.25 MHz - 463.25 MHz
<b>HRM 395</b> Order no.: G.AE 8500	input: output:	C2-C12, S2-S41, C21-C69, 48.25 - 855.25 MHz C21-C69, 471.25 MHz - 855.25 MHz

### Terrestrial Cassettes (OIRT)

<b>HCM 381</b>	input: output:	R1-R12, S2-S38, C21-C69, 49.75 MHz - 855.25 MHz R1-R5, S2-S21, R6-R12, 49.75 MHz - 351.25 MHz
<b>HCM 383</b>	input: output:	R1-R12, S2-S38, C21-C69, 49.75 MHz - 855.25 MHz R6-R12, S2-S21, 119.25 MHz - 327.25 MHz
<b>HCM 385</b>	input: output:	R1-R12, S2-S38, C21-C69, 49.75 MHz - 855.25 MHz C21-C69, 471.25 MHz - 855.25 MHz

**Digital Converter Cassettes**

<b>HDM 303 P</b> Order no.: G.AE 6500	input: output:	950-2150 MHz C5-C12, S3-S30, 119.25 MHz - 375.25 MHz, CCIR
<b>HDM 305 P</b> Order no.: G.AE 8600	input: output:	950-2150 MHz C21-C69, 471.25 MHz - 855.25 MHz, CCIR
<b>HDM 314 C</b> Order no.: G.AE 6700	input: output:	950-2150 MHz S21-S41, 303.25 MHz - 463.25 MHz, QAM
<b>HDM 315 C</b> Order no.: G.AF 7400	input: output:	950-2150 MHz C21-C40, 471.25 MHz - 623.25 MHz, QAM
<b>HDM 353 P</b> Order no.: G.AE 6600	input: output:	950-2150 MHz R6-R12, S2-S27, 119.25 MHz - 375.25 MHz, OIRT (multi-norm)
<b>HDM 355 P</b> Order no.: G.AE 9900	input: output:	950-2150 MHz C21-C69, 471.25 MHz - 855.25 MHz, OIRT (multi-norm)
<b>HDM 374 C</b> Order no.: G.AF 7200	input: output:	950-2150 MHz QPSK to QAM S21-S41
<b>HDM 375 C</b> Order no.: G.AF 7300	input: output:	950-2150 MHz QPSK to QAM C21-C69

**Cassettes for Extension of the STC 1880 Head Stations (GAF 5859)****HAC 1880 - analogue unit (without modulators)**

Order no.: GAF 5900      4 times SAT analogue converter, must only be fitted with  
analogue VHF and/or UHF modulators

**HAM 1833 - analogue VHF modulator**

Order no.: GAF 6000      output channels adjustable from S3 to S24 inclusively  
C5 to C12

**HAM 1835 - analogue UHF modulator**

Order no.: GAF 6100      output channels adjustable from C21 to C69

**HDC 1880 - digital unit (without modulators)**

Order no.: GAF 6200      4 times SAT digital converter, must only be fitted with digital VHF  
and/or UHF modulators

**HDM 1814 - digital VHF modulator**

Order no.: GAF 6300      output channels adjustable from S21 to S41

**HDM 1815 - digital UHF modulator**

Order no.: GAF 6400      output channels adjustable from C21 to C69

**DNS Universal Decoder retrofitting set**

Order no.: GAG 1300      to connect external sets (e.g. Decoder (Descrambler),  
Video recorder, Video camera).  
Suitable for coupling in and out video and audio signals.

**HTM 300 - Amplifier module for terrestrial TV programmes**

Order no.: GAG 1200      to convert terrestrial TV programmes (selective) and terrestrial  
UKW radio programmes (wide band).

**HTM Installation Set - for the terrestrial amplifier module**

Order no.: GAG 1400

# GRUNDIG Tele-Pilot® Remote Control Handsets / Overview

Satellite product range



rc sat  
29622 046 1700



TP 720 SAT  
29642 059 1800



TP 820 SAT  
29642 061 0300



SRC5  
75990 900 0800



TP 805 SAT  
75990 900 0600



TP 716 SAT  
23800 001 0100



TP 715 SAT  
75990 900 5800



SAT Control 1  
72011 620 0000

SAT

## Special Functions of Satellite Receivers (Options)

SAT Receiver	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 will be indicated. When keeping the "P/F" button pressed the SAT receiver switches over to level 2. The necessary conversion of the "rc sat" remote control is described in the Service Information bulletins TV 21/93 and. 22/95. With the remote control TP 720 SAT, level 2 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 $\mu$ 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 will be 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 the remote control button "i" down while switching on with the mains button. With the ◀ ▶ buttons on the remote control it is possible to change the horizontal position. Confirm the setting with the "OK" button and leave the Service Menu with "i".
STC 332 STC 800 STC 850 STC 880 STC 1200 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. 5s - as long as these buttons are pressed - a number will be 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 being 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 being loaded.

## Service Manuals sorted by Satellite Receivers

Satellite Receiver	Part No.	Kind of Manual
BE-PLUS	72010 030 6000	Service Manual
HRM 851 SAT/BD 1	72010 015 5000	Service Manual
HRM 852 SAT/UHF	72010 015 5000	Service Manual
HRM 853 FR SAT/UHF	72010 015 5000	Service Manual
HRM 854 SAT/ HYPERB.STEREO	72010 015 5000	Service Manual
HRM 855 SAT/OIRT	72010 015 5000	Service Manual
HRM 857 SAT/UHF-OIRT	72010 015 5000	Service Manual
HRM 858 A SAT/BD 3- STER.	72010 015 5000	Service Manual
HRM 859 SAT/BD 1-OIRT	72010 015 5000	Service Manual
SER 6350	72010 015 0000	Service Manual
SER 7300	72010 015 4000	Service Manual
SNR 105 microSAT	72010 020 9000 72010 020 9100	Service Manual Supplement 1
STC 80	72010 018 6000 72010 018 6100	Service Manual Supplement 1
STC 850 STC 800/0	72010 015 5000	Service Manual
STC 1200	72010 023 3000	Service Manual.
STC 1600	72010 015 9000	Service Manual
STC 1600/0	72010 015 9000	Service Manual
STC 1650	72010 018 0000	Service Manual
STC 1880	72010 030 2000	Service Manual
STC 332	72010 023 7000	Service Manual
STE 1000	72010 019 0000	Service Manual
STR 100 DX	72010 021 0000	Service Manual
STR 100 FR MicroSAT	72010 019 2000	Service Manual
STR 100 MicroSAT	72010 018 2000	Service Manual
STR 110 DX	72010 020 9000	Service Manual
STR 1300	72010 029 6000	Service Manual
STR 1300 FR	72010 029 9000	Service Manual
STR 2300	72010 025 1000 72010 025 1100	Service Manual Supplement 1
STR 2300 FR	72010 027 4000	Service Manual
STR 2300 MV	72010 025 1000 72010 025 1100	Service Manual Supplement 1
STR 310	72010 015 8000	Service Manual
STR 310/1	72010 015 8000	Service Manual
STR 311	72010 013 9000	Service Manual
STR 312	72010 013 9000	Service Manual
STR 320	72010 015 8000	Service Manual
STR 320/1	72010 015 8000	Service Manual
STR 322 TWIN	72010 016 3000	Service Manual
STR 322 TWIN FR	72010 017 9000	Service Manual
STR 325	72010 015 8000	Service Manual
STR 400 AP	72010 014 4000	Service Manual

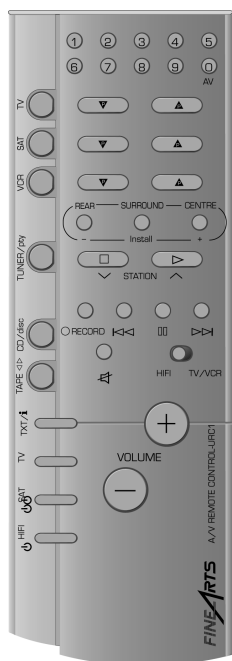
Satellite Receiver	Part No.	Kind of Manual
STR 410	72010 015 8000 72010 015 8100	Service Manual Supplement 1
STR 420	72010 015 8000 72010 015 8100	Service Manual Supplement 1
STR 501	72010 018 3000	Service Manual
STR 501 FR	72010 018 4000	Service Manual
STR 502	72010 018 3000	Service Manual
STR 502 FR	72010 018 4000	Service Manual
STR 511	72010 016 7000	Service Manual
STR 511 FR	72010 018 1000	Service Manual
STR 512	72010 016 7000	Service Manual
STR 512 FR	72010 018 1000	Service Manual
STR 535 N MAC	72010 018 0000	Service Manual
STR 600 AP	72010 021 2000	Service Manual
STR 600 AP	72010 021 2000	Service Manual
STR 600 AP / F / E / P	72010 021 2000 72010 021 2100	Service Manual Supplement 1
STR 611	72010 021 3000 72010 021 3100	Service Manual Supplement 1
STR 6000	72010 029 7000	Service Manual
STR 6000 FR	72010 030 4000	Service Manual
STR 6100	72010 029 8000	Service Manual
STR 6100 FR	72010 030 1000	Service Manual
STR 6122 TWIN	72010 023 4000	Service Manual
STR 622 TWIN	72010 021 3000	Service Manual
STR 631	72010 020 3000	Service Manual
STR 631	72010 020 3000	Service Manual
STR 631 FR	72010 020 4000	Service Manual
STR 632	72010 020 3000	Service Manual
STR 632	72010 020 3000	Service Manual
STR 632 FR	72010 020 4000	Service Manual
STR 641 + FR	72010 020 3000 72010 020 3100	Service Manual Supplement 1
STR 642 + FR	72010 020 3000 72010 020 3100	Service Manual Supplement 1
STR 7100	72010 023 9000 72010 023 9100	Service Manual Supplement 1
STR 7100 FR	72010 027 5000	Service Manual
STR 7122 TWIN	72010 025 2000 72010 025 2100	Service Manual Supplement 1
VCR SAT1	72010 537 5500	Service Manual

**Contents: Audio**

GRUNDIG Tele-Pilot® Remote Control Handsets / Overview .....6.2  
 Service Manuals from 1995 on: Audio/HiFi .....6.5  
 Service Manuals: CarAudio .....6.6  
 Anti-theft Systems for Grundig Car Radios.....6.7  
 Anti-theft Coding of Car Radios .....6.8

Audio/HiFi

# GRUNDIG Tele-Pilot® Remote Control Handsets / Overview Audio / HiFi Product Range



**M100**  
59802 624 0100  
59802 624 5100



**RC CDM 700**  
75954 062 9300



**RC M7/17/27 C**  
**RC M18/28/38 C**  
75954 049 3600



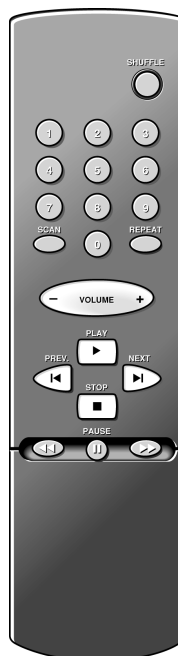
**RC M 37 DC**  
**RC M48 DC**  
75954 050 4100



**RC KM12/13**  
75954 062 5700



**RC CD22**  
75954 069 1100



**RC CD23**  
75954 069 1800



**URC 20**  
75954 068 5600

Audio/HiFi





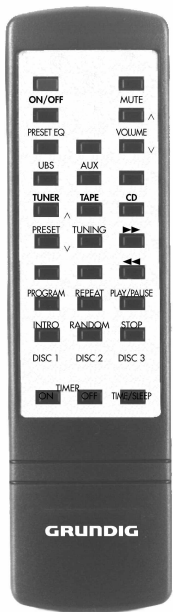
UMS11/12  
75954 505 0100



RC PA 5  
59802 630 0100



RC M 49  
75955 006 3000



M14  
75955 004 0100



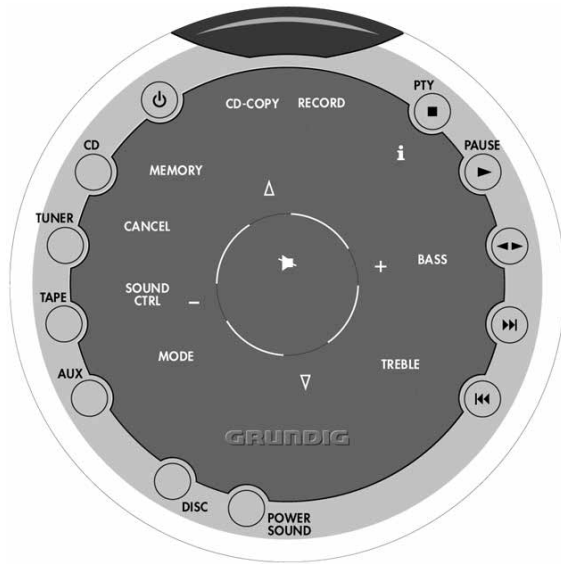
M19/29  
75955 002 9100



RR 660 CD  
75955 005 0100



RR 760 CD  
75955 005 5000



RC PA 6  
59802 620 5000



Personal Remote 20  
72011 713 0200



RC RR 770 CD  
75955 026 7000

### Audio/HiFi Service Manuals from 1995 on sorted by sets

Set	Service Manual
APOLLO 2000	72010 760 7500
CCF 23	72010 755 6500
CD 21	72010 755 5500
CD 22	72010 755 5500
CD 23	72010 756 3500
CDM 700	72010 755 7000
CDP 76	72010 755 1000
CDP 210	72010 755 1500
CDP 310	72010 757 8500
CDP-S 150	72010 752 7000
CDP-S 250	72010 757 1000
CF 21	72010 755 6000
K-CDP 66	72010 755 0500 72010 755 0600
K-RCD 120	72010 756 5000 72010 756 5100
KM 12	72010 754 3000
KM 13	72010 757 1500
M 7-C	72010 752 2500
M 14	72010 759 4500
M 17-C	72010 752 2500
M 18-C	72010 755 8500
M 19-C	72010 759 1500
M 27-C	72010 752 2500
M 28-C	72010 755 8500
M 29-C	72010 759 1500
M 37-DC	72010 753 2500
M 38-C	72010 755 8500
M 48-DC	72010 755 8500
M 49-DC	72010 759 4000
M 100 A	72010 749 7500
M 100 ADPL	72010 750 6500
M 100 CDC	72010 750 7000
M 100 CF	72010 749 8500
M 100 R	72010 749 7500
M 100 T	72010 750 6000
M 100-CD MKII	72010 754 3500
MPaxx MP100	72010 761 0000 72010 761 0100

Set	Service Manual
MPaxx MP150	72010 771 0500
PA 5 - TurNiT	72010 758 0500
PA 6	72010 760 7000
R 21	72010 755 9000
R 22 DPL	72010 755 9000
R 23 DPL	72010 757 2000
RBX-1	72010 752 2000
RCD 2000	72010 760 6000
RCD 405	72010 752 3000 72010 747 0500
RR 300 CD	72010 760 5000 72010 760 5100
RR 420 CD	72010 752 4000
RR 430 CD	72010 760 0000
RR 440 CD	72010 771 1500
RR 630 CD	72010 759 3000 72010 759 3100
RR 640 CD	72010 771 0000
RR 660 CD	72010 759 3000 72010 759 3100
RR 670 CD	72010 771 0000
RR 720 CD	72010 759 3500
RR 740 CD	72010 771 1000
RR 760 CD	72010 759 3500
RR 770 CD	72010 771 1000
SC 900	72010 754 4500
SC 910	72010 754 4000
ST 16 (ADR)	72010 752 1000
T 22	72010 755 4000
TurNiT - PA5	72010 758 0500
UMS 11	72010 757 2500
UMS 12	72010 757 2500
UMS 12-S	72010 757 2500
UMS 15	72010 760 8500
UMS 25	72010 760 9500
V 14 DPL-RF	72010 752 1500
V 21	72010 755 4500
V 23	72010 755 5000
Yacht Boy-P2000	72010 757 0000

Observe also the instructions given in the "Safety" Service Manual Part No. 72010 800 0000!

## Car Audio Service Manuals sorted by sets

Set	Service Manual
Advance CC	72010 760 4000
Advance CD	72010 760 4500
BOOSTER PA 120	72010 731 9500
BOOSTER PA 240	72010 732 0000
EC 4000 RDS	72010 748 5000
EC 4200 RDS	72010 759 2000 72010 748 5000
EC 4290 CD	72010 750 5500 72010 748 5000
EC 4490 CD	72010 759 2500 72010 748 5000 72010 750 5500
EC 4600 RDS	72010 752 7500
EC 4700 RDS	72010 760 1500 72010 752 7500
EC 4790 CD	72010 760 2000
EC 4890 CD	72010 771 2000 72010 760 2000
EC 7400 RDS	72010 739 5000
EC 7500 RDS	72010 739 5000
MCD 20	72010 733 6000
MCD 30	72010 737 2500 72010 737 2600
MCD 36	72010 748 3000 72010 748 3100
MCD 40	72010 748 3000 72010 748 3100
MCD 46	72010 771 2500
MCD 50	72010 771 3000
SCD 1590 VD	72010 739 1000
SCD 1910 RDS	72010 733 2000
SCD 3390 RDS	72010 757 8000
SCD 3590	72010 739 1000
SCD 5290 RDS	72010 749 3500
SCD 5390 RDS	72010 749 4500
SCD 5690 RDS	72010 749 4500
WKC 1630	72010 744 9500
WKC 1650 VD	72010 736 1000
WKC 1670 VD	72010 738 7000
WKC 1700 VD	72010 791 8500
WKC 1701 VD	72010 791 8500
WKC 1903 RDS	72010 731 0500

Set	Service Manual
WKC 1904 RDS	72010 736 0500
WKC 2201 RDS	72010 758 6000
WKC 3200	72010 752 4500
WKC 3201	72010 752 4500
WKC 3300	72010 752 4500
WKC 3301	72010 752 4500
WKC 3600	72010 749 1500
WKC 3630	72010 744 9500
WKC 3650	72010 736 1000
WKC 3700	72010 730 6000
WKC 3700 R	72010 730 6000
WKC 3701	72010 740 2000
WKC 3701 R	72010 730 6500
WKC 3904 RDS	72010 731 8000
WKC 3905 RDS	72010 731 8500
WKC 5100	72010 746 3500
WKC 5101	72010 746 3500
WKC 5200	72010 746 3500
WKC 5201	72010 746 3500
WKC 5300	72010 746 3000
WKC 5600	72010 746 3000
WKC 6400 RDS	72010 740 0000
WKC 6500 RDS	72010 740 0000

Observe also the instructions given in the "Safety" Service Manual Part No. 72010 800 0000!

### Anti-theft Systems for Grundig Car Radios

Car Radio WKC/ SCD/EC..	Optional Code Number 1)	Specific Code Number 2)	Removable Control Panel	Quick-out Unit 3)
1590 VD		•		•
1630 VD		•	•	
1650 VD		•	•	
1670 VD		•	•	
1903 RDS		•	•	
1904 RDS		•	•	
1905 RDS		•	•	
1910 RDS		•	•	
2201 RDS		•	•	
2301 RDS		•	•	
2632 VD				•
2642 VD				•
2670 VD		•	•	
2680 VD		•	•	
2803 VD/A		•		RS
2804 VD		•		RS
2805 VD		•		RS
2841 VD	•	from 845501 on	•	
2842 VD		•	•	
2845 VD	•			
3200 RDS		•	•	
3201 RDS		•	•	
3300 RDS		•	•	
3301 RDS		•	•	
3390 RDS		•	•	
3851 RDS		•	•	
3860 VD/aVD	•	•		
3904 RDS		•	•	
3905 RDS		•	•	

Car Radio WKC/ SCD/EC..	Optional Code Number 1)	Specific Code Number 2)	Removable Control Panel	Quick-out Unit 3)
4000 RDS		•	•	
4290 RDS		•	•	
4490 RDS		•	•	
4600 RDS		•	•	
4700 RDS		•	•	
4790 CD		•	•	
4890 CD		•	•	
4804 VD		•	•	RS
4805 VD		•	•	RS
5100 RDS		•	•	
5101 RDS		•	•	
5200 RDS		•	•	
5201 RDS		•	•	
5290 RDS		•	•	
5300 RDS		•	•	
5390 RDS		•	•	
5500 RDS/A/C		•	•	
5600 RDS		•	•	
5690 RDS		•	•	
6400 RDS		•	•	
6500 RDS		•	•	
7400 RDS		•	•	
7500 RDS		•	•	
Advance CC		•	•	
Advance CD		•	•	

1) It is possible to enter any code number as 4 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. RS plug-in unit, order number G.IB 0297

You can withdraw the car radio easily from the compartment by a handle and take it along with you.

## Anti-theft Coding of Car Radios

for types WKC/SCD/EC...

1630, 1650, 1670, 1703, 1704, 1705, 1903, 1910, 2670, 2680, 2803, 2804, 3851, 3870, 3880, 3904, 3905, 4804, 4870, 4871, 5000, 5500, 6400, 6500, 7400, 7500

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

### Activating the coding

Radio is playing: Depress button **A** (see table) for more than 3 seconds -> "CODE" appears in the display. After 3 seconds the display shows **B** (see table). 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 and so on); a wrong code number can be corrected by overwriting, i.e. by entering a new code number. Confirm the code number: Depress button **C** (see table) for more than 3 seconds -> "SAFE" appears in the display.

### Is the coding activated?

Radio is playing: Depress button **D** (see table) for more than 3 seconds; the coding is activated when "SAFE" appears in the display. After about 3 seconds, **E** (see table) appears in the display. Switch the radio off/on - radio starts playing; the coding is not activated when "CODE" appears in the display. After about 3 seconds, the display shows **F** (see table). Switch the radio off/on - radio starts playing.

### Putting into operation again

On disconnection from the supply voltage the radio is electronically locked. Reconnect the radio correctly to the supply voltage. Switch the radio on. "SAFE" appears in the display. After about 3 seconds, the display shows **G** (see table). Enter the code number. Confirm the code number: Depress button **H** (see table) for more than 3 seconds -> "SAFE" appears in the display. After about 3 seconds the radio starts playing.

The entered code number is wrong: -> "SAFE" appears in the display. 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 time of 24 hours until a new code can be entered.

Types WKC/SCD/EC . .	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
<b>A</b>	FM	U	U	U	FM
<b>B</b>	_____	1_____	1_____	_____	_____
<b>C</b>	FM	U	U	U	FM
<b>D</b>	FM	U 1)	U	U	FM
<b>E</b>	1_____	1 <span style="border: 1px solid black; padding: 0 2px;">1</span> _____	1_____	1_____	_____
<b>F</b>	_____	1_____	1_____	_____	_____
<b>G</b>	1_____	1 <span style="border: 1px solid black; padding: 0 2px;">1</span> _____	1_____	1_____	_____
<b>H</b>	FM	U	U	U	FM
<b>I</b>	FM	U	U	U	FM
<b>K</b>	1_____	1 <span style="border: 1px solid black; padding: 0 2px;">1</span> _____	1_____	1_____	_____
<b>L</b>	FM	U	U	U	FM

### Deactivating the coding

Radio is playing: Depress button **I** (see table) for more than 3 seconds -> "SAFE" appears in the display. After about 3 seconds the display shows **K** (see table). Enter the code number. Confirm the code number: Press button **L** (see table) for more than 3 seconds. After about 3 seconds the radio starts playing.

The entered code number is wrong: -> "SAFE" appears in the display. 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 time of 24 hours until a new code can be entered.

1) The coding is activated when "SAFE" flashes in the display with the car radio switched off.

for types WKC/SCD/EC...

5100, 5101, 5200, 5201, 5290, 5300, 5390, 5600, 5690

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

### Activating the coding

Radio is playing: Depress button **EXPERT** for more than 1 second, with the rotary knob, select "CODE" in the display. Press button **EXPERT** shortly -> display shows E -- -- -- --;

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 and so on).

A wrong code number can be corrected by overwriting, i.e. entering a new code number.

Confirm the code number: Press the **EXPERT** button shortly -> display shows "SAFE"

Leave the Expert mode: Press **EXPERT** for more than 1 second.

### Is the coding activated?

Radio is playing: Press the **EXPERT** button for more than 1 second.

The coding is activated when "SAFE" is indicated in the display.

The coding is not activated when "CODE" is shown in the display.

Leave the Expert mode: Press **EXPERT** for more than 1 second.

### Putting into operation again

On disconnection from the supply voltage the radio is electronically locked. Reconnect the radio correctly to the supply voltage.

Switch the radio on -> the display shows "SAFE". After about 3 seconds the display shows 1-- -- -- --.

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 time of 24 hours until a new code can be entered.

Enter the code number.

Confirm the code number: Press the **EXPERT** button shortly; "SAFE" appears in the display. After about 3 seconds the radio starts playing.

The entered code number is wrong -> "SAFE" appears in the display.

### Deactivating the coding

The radio is playing: Press the **EXPERT** button for more than 1 second, with the rotary knob select "SAFE" in the display.

Press the **EXPERT** button shortly -> the display shows 1-- -- -- --

Enter the code number.

Confirm the code number: Press the **EXPERT** button shortly -> "CODE" is indicated in the display.

The entered code number is wrong -> "SAFE" is shown in the display

Press **EXPERT** for more than 1 second.

**for types WKC/SCD/EC...  
4000, 4200, 4290, 4490, 4600, 4790, 4890**

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

### **Activating the coding**

Radio is playing: Press button  $\Phi$  (Expert) for more than 1 second, with the rotary knob on the right select "CODE" in the display. Press button  $\Phi$  (Expert) shortly -> CH -- -- -- -- is shown in the display.

Enter the code number by turning the right shaft encoder.

Confirm the code number: Press the **right shaft encoder** shortly -> display shows "SAFE"

Leave the Expert mode: Press button  $\Phi$  (Expert) for more than 1 second.

### **Is the coding activated?**

Radio is playing: Press button  $\Phi$  (Expert) for more than 1 second.

The coding is activated when "SAFE" is indicated in the display.

The coding is not activated when "CODE" is indicated in the display.

Leave the Expert mode: Press button  $\Phi$  (Expert) for more than 1 second.

### **Putting into operation again**

On disconnection of the supply voltage the radio is electronically locked.

Reconnect the radio correctly to the supply voltage.

Switch the radio on -> display shows "SAFE". After about 1 second, 1-- -- -- --. is indicated in the display.

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 time of 24 hours until a new code can be entered.

Enter the code number.

Confirm the code number: Press the **right shaft encoder** shortly; "SAFE" is indicated in the display. After about 1 second the radio starts playing.

The entered code number is not correct -> "SAFE" is indicated in the display.

### **Deactivating the coding**

Press button  $\Phi$  (Expert) for more than 1 second, with the rotary knob select "SAFE" in the display.

Press the **right shaft encoder** shortly -> CH 1-- -- -- -- is indicated in the display.

Enter the code number.

Confirm the code number: Press the **right shaft encoder** shortly; "CODE" is indicated in the display.

The entered code number is not correct -> "SAFE" is indicated in the display.

Press button  $\Phi$  (Expert) for more than 1 second.





**for types WKC/SCD/EC...  
2201, 2301, 3200, 3201, 3300, 3301, 3390**

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

**Activating the coding**

Radio is playing

Press the EXPERT button until a signal is sounded. "EXPERT" is shortly indicated in the display.

Press any of the buttons   until "CODE" is indicated in the display. Press button EXPERT shortly. The indication -- -- -- -- flashes in the display.

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 and so on).

A wrong code number can be corrected by overwriting, i.e. entering a new code number.

Confirm the code number: Press EXPERT shortly -> "SAFE" is indicated in the display.

Leave the Expert mode: Press the EXPERT button until a signal is sounded.

**Is the coding activated?**

Radio is playing: Press the EXPERT button for more than 1 second.

The coding is activated when "SAFE" is indicated in the display.

The coding is not activated when "CODE" is indicated in the display.

Leave the Expert mode: Press the EXPERT button for more than 1 second.

**Putting into operation again**

On disconnection of the supply voltage the radio is electronically locked.

Reconnect the radio correctly to the supply voltage.

Switch the radio on -> "SAFE" is indicated in the display.

After about 3 seconds 1-- -- -- -- is indicated in the display.

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 and so on).

A wrong code number can be corrected by overwriting, i.e. entering a new code number.

Confirm the code number: Press the EXPERT button until "SAFE" is indicated in the display.



Radio starts playing after about 2 seconds.

The entered code number is not correct -> "SAFE" is indicated in the display.

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 time of 24 hours until a new code can be entered.

**Deactivating the coding**

Radio is playing. Press the EXPERT button until a signal is sounded. "EXPERT" is shortly indicated in the display.

Press any of the buttons   until "SAFE" is indicated in the display. Press button EXPERT shortly. The indication 1-- -- -- -- flashes in the display.

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 and so on).

A wrong code number can be corrected by overwriting, i.e. entering a new code number.

Confirm the code number: Press EXPERT shortly -> "CODE" is indicated in the display.

Leave the Expert mode: Press the EXPERT button until a signal is sounded.

# Calendar 2001

January	February	March	April	May	June
1 Mo <b>New Year</b>	1 Th	1 Th	1 So	1 Tu <b>1st May</b>	1 Fr
2 Tu	2 Fr	2 Fr	2 Mo	2 We 18	2 Sa
3 We 1	3 Sa	3 Sa	3 Tu	3 Th	3 So <b>Whit Sunday</b>
4 Th	4 So	4 So	4 We 14	4 Fr	4 Mo <b>Whit Monday</b>
5 Fr	5 Mo	5 Mo	5 Th	5 Sa	5 Tu
6 Sa	6 Tu	6 Tu	6 Fr	6 So 23	6 We
7 So	7 We 6	7 We 10	7 Sa	7 Mo	7 Th
8 Mo	8 Th	8 Th	8 So	8 Tu	8 Fr
9 Tu	9 Fr	9 Fr	9 Mo	9 We 19	9 Sa
10 We 2	10 Sa	10 Sa	10 Tu	10 Th	10 So
11 Th	11 So	11 So	11 We 15	11 Fr	11 Mo
12 Fr	12 Mo	12 Mo	12 Th	12 Sa	12 Tu
13 Sa	13 Tu	13 Tu	13 Fr <b>Good Friday</b>	13 So 24	13 We
14 So	14 We 7	14 We 11	14 Sa	14 Mo	14 Th
15 Mo	15 Th	15 Th	15 So <b>Easter Sunday</b>	15 Tu	15 Fr
16 Tu	16 Fr	16 Fr	16 Mo <b>Easter Monday</b>	16 We 20	16 Sa
17 We 3	17 Sa	17 Sa	17 Tu	17 Th	17 So
18 Th	18 So	18 So	18 We 16	18 Fr	18 Mo
19 Fr	19 Mo	19 Mo	19 Th	19 Sa	19 Tu
20 Sa	20 Tu	20 Tu	20 Fr	20 So 25	20 We
21 So	21 We 8	21 We 12	21 Sa	21 Mo	21 Th
22 Mo	22 Th	22 Th	22 So	22 Tu	22 Fr
23 Tu	23 Fr	23 Fr	23 Mo	23 We 21	23 Sa
24 We 4	24 Sa	24 Sa	24 Tu	24 Th	24 So
25 Th	25 So	25 So	25 We 17	25 Fr	25 Mo
26 Fr	26 Mo	26 Mo	26 Th	26 Sa	26 Tu
27 Sa	27 Tu	27 Tu	27 Fr	27 So 26	27 We
28 So	28 We 9	28 We 13	28 Sa	28 Mo	28 Th
29 Mo		29 Th	29 So	29 Tu	29 Fr
30 Tu		30 Fr	30 Mo	30 We 22	30 Sa
31 We 5		31 Sa		31 Th	

## Fair Dates:

CeBIT 22.03.-28.03.2001, Hannover  
 Anga Cable 04.04.-06.04.2001, Köln  
 Car & Sound 06.04.-08.04.2001, Sinsheim

Cable & Satellite 21.05.-23.05.2001, London  
 Eltec 20.06.-22.06.2001, Nürnberg  
 Login 19.06.-21.06.2001, Berlin

Fair Dates  
 E. & O.E.

# Calendar 2001

July	August	September	October	November	December
1 So	1 We 31	1 Sa	1 Mo	1 Th	1 Sa
2 Mo	2 Th	2 So	2 Tu 40	2 Fr	2 So
3 Tu	3 Fr	3 Mo	3 We Day of German unity	3 Sa	3 Mo
4 We 27	4 Sa	4 Tu	4 Th	4 So	4 Tu
5 Th	5 So	5 We 36	5 Fr	5 Mo	5 We 49
6 Fr	6 Mo	6 Th	6 Sa	6 Tu	6 Th
7 Sa	7 Tu	7 Fr	7 So	7 We 45	7 Fr
8 So	8 We 32	8 Sa	8 Mo	8 Th	8 Sa
9 Mo	9 Th	9 So	9 Tu	9 Fr	9 So
10 Tu	10 Fr	10 Mo	10 We 41	10 Sa	10 Mo
11 We 28	11 Sa	11 Tu	11 Th	11 So	11 Tu
12 Th	12 So	12 We 37	12 Fr	12 Mo	12 We 50
13 Fr	13 Mo	13 Th	13 Sa	13 Tu	13 Th
14 Sa	14 Tu	14 Fr	14 So	14 We 46	14 Fr
15 So	15 We 33	15 Sa	15 Mo	15 Th	15 Sa
16 Mo	16 Th	16 So	16 Tu	16 Fr	16 So
17 Tu	17 Fr	17 Mo	17 We 42	17 Sa	17 Mo
18 We 29	18 Sa	18 Tu	18 Th	18 So	18 Tu
19 Th	19 So	19 We 38	19 Fr	19 Mo	19 We 51
20 Fr	20 Mo	20 Th	20 Sa	20 Tu	20 Th
21 Sa	21 Tu	21 Fr	21 So	21 We 47	21 Fr
22 So	22 We 34	22 Sa	22 Mo	22 Th	22 Sa
23 Mo	23 Th	23 So	23 Tu	23 Fr	23 So
24 Tu	24 Fr	24 Mo	24 We 43	24 Sa	24 Mo <b>Cristmas</b> 52
25 We 30	25 Sa	25 Tu	25 Th	25 So	25 Tu <b>Cristmas</b>
26 Th	26 So	26 We 39	26 Fr	26 Mo	26 We <b>Cristmas</b>
27 Fr	27 Mo	27 Th	27 Sa	27 Tu	27 Th
28 Sa	28 Tu	28 Fr	28 So	28 We 48	28 Fr
29 So	29 We 35	29 Sa	29 Mo	29 Th	29 Sa
30 Mo	30 Th	30 So	30 Tu	30 Fr	30 So
31 Tu	31 Fr		31 We 44		31 Mo <b>New Year Eve</b>

## Fair Dates:

IFA 25.08.-02.09.2001, Berlin  
 Elektrotechnik 05.09.-08.09.2001, Dortmund  
 IAA 13.09.-23.09.2001, Frankfurt

eltefa  
 Medica

26.09.-28.09.2001, Stuttgart  
 21.11.-24.11.2001, Düsseldorf

