

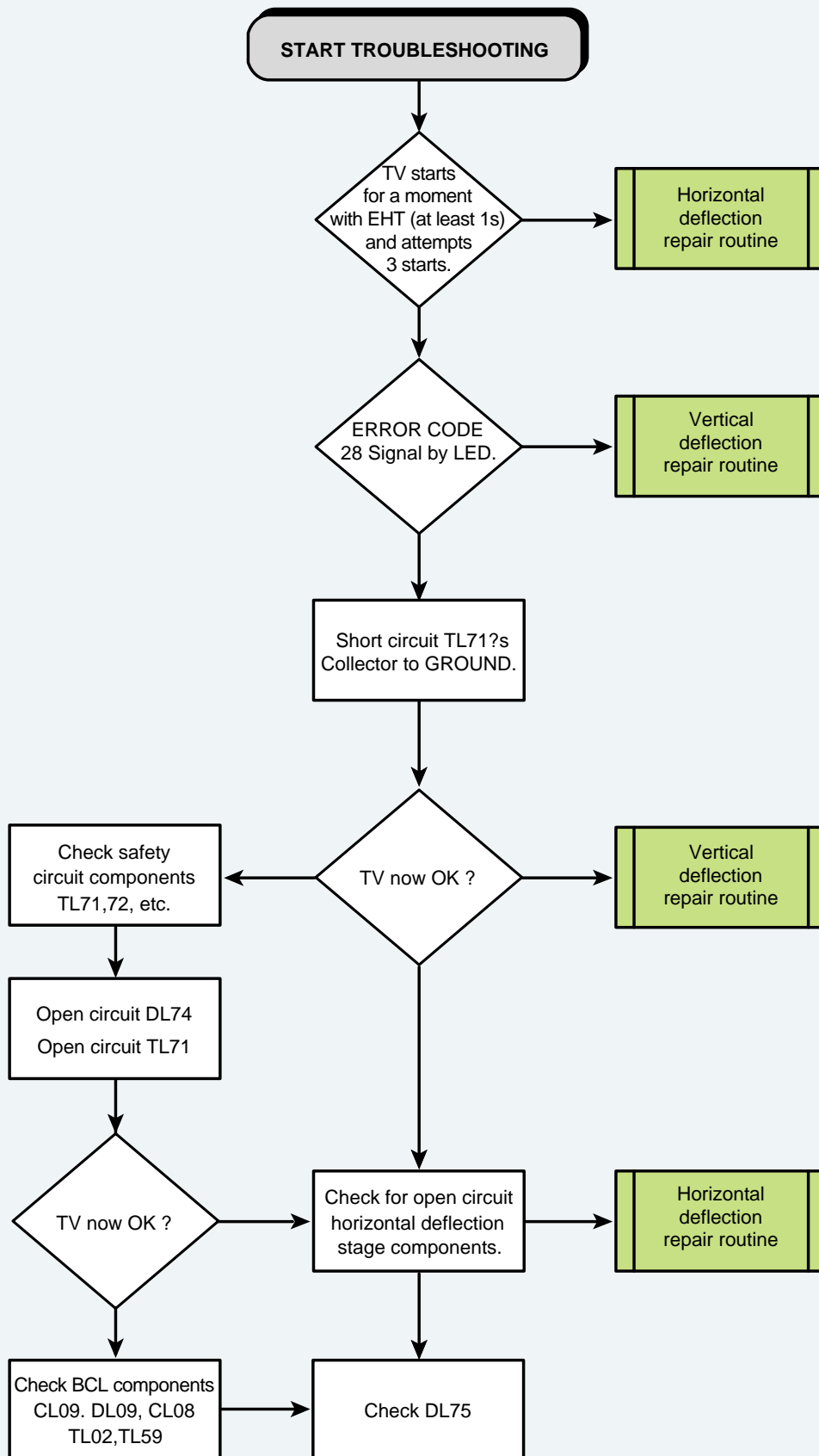
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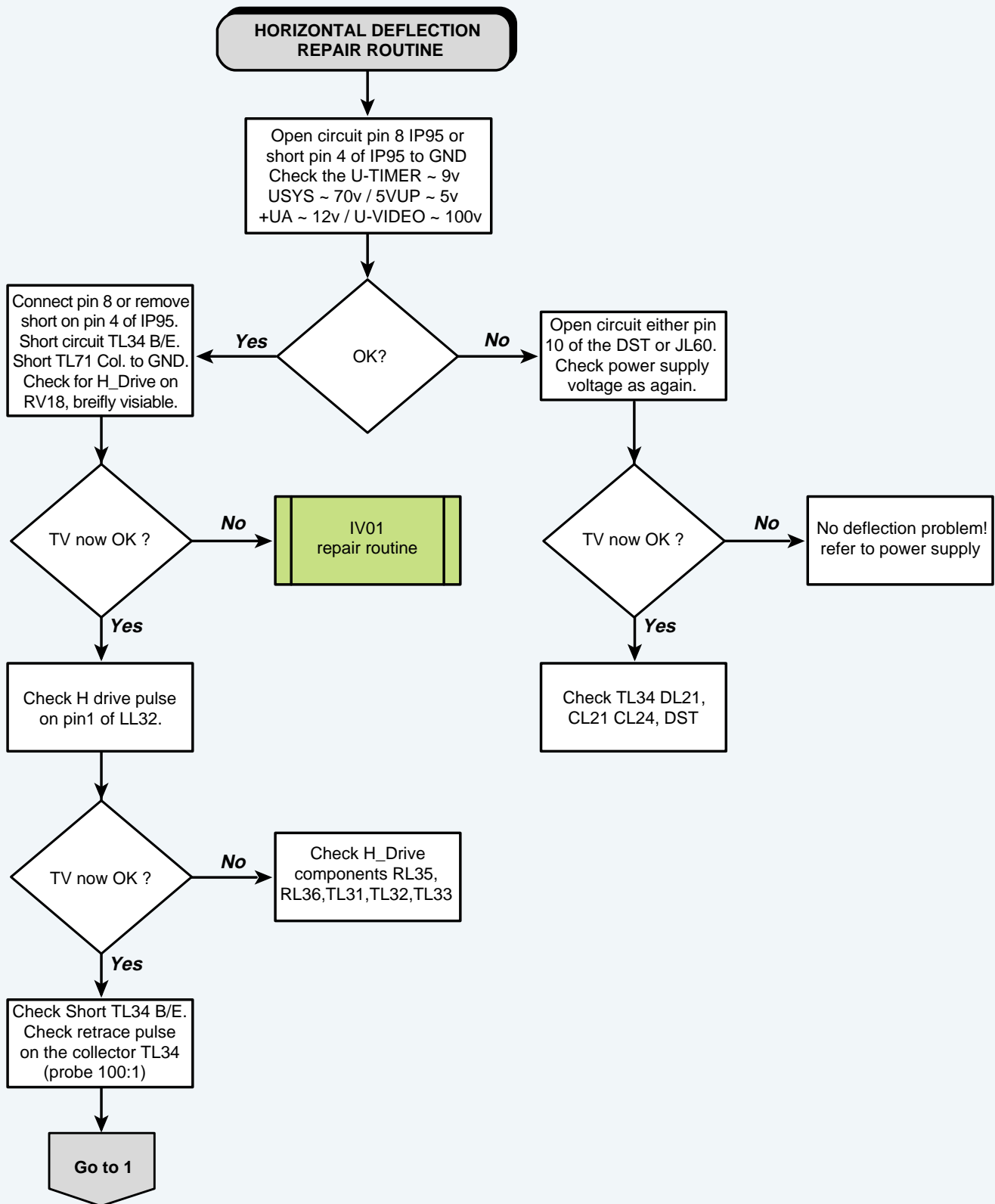
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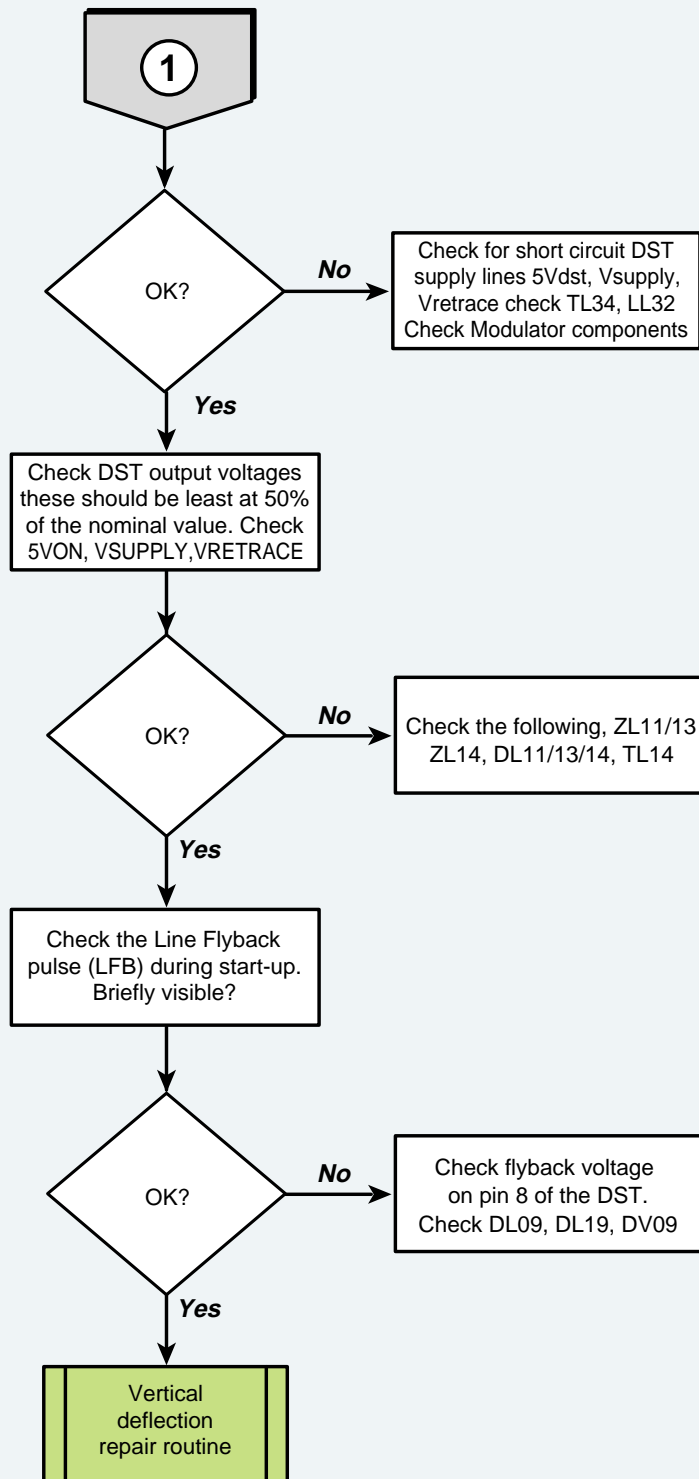
DEFLECTION CIRCUIT CHECK



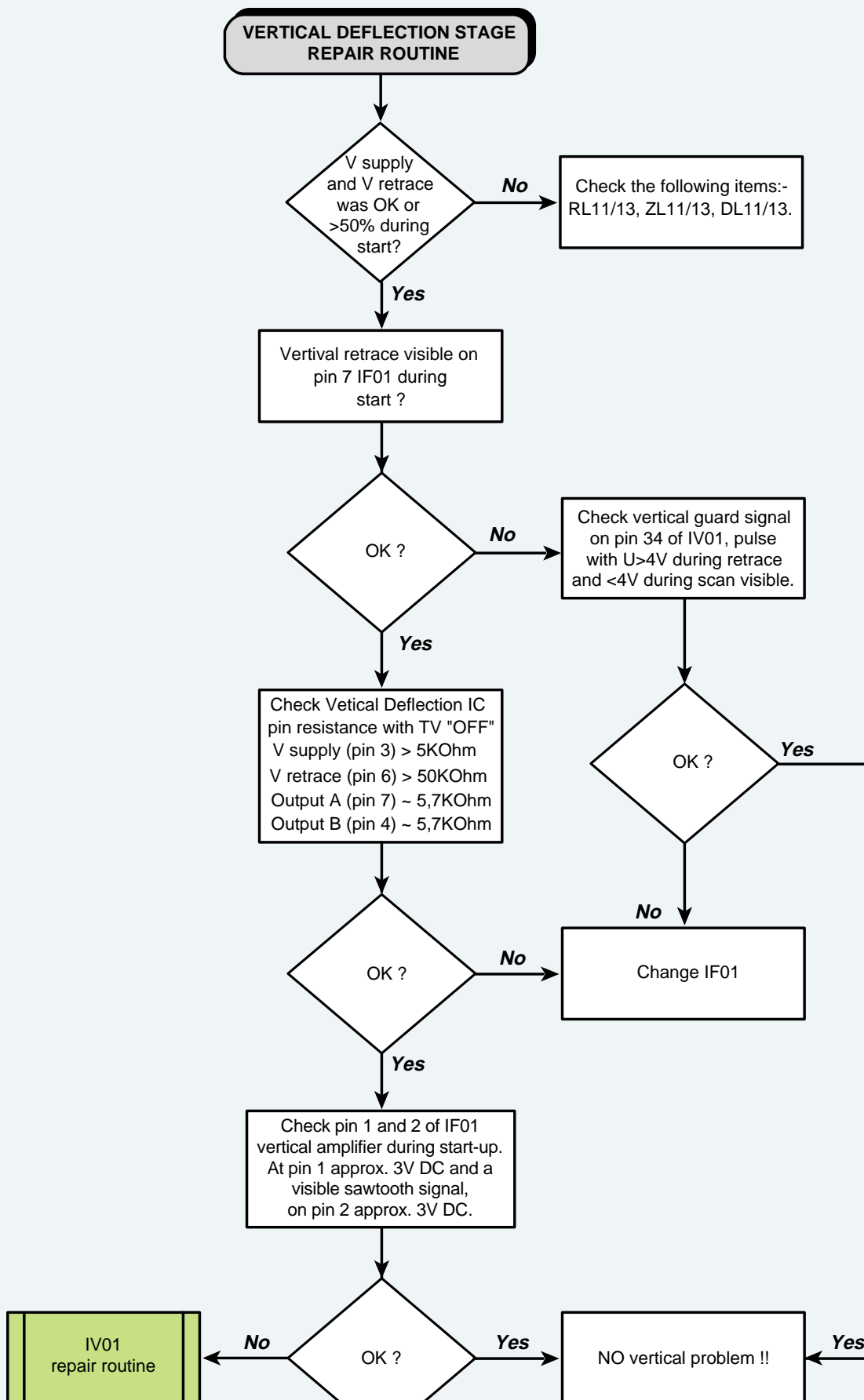
DEFLECTION CIRCUIT CHECK



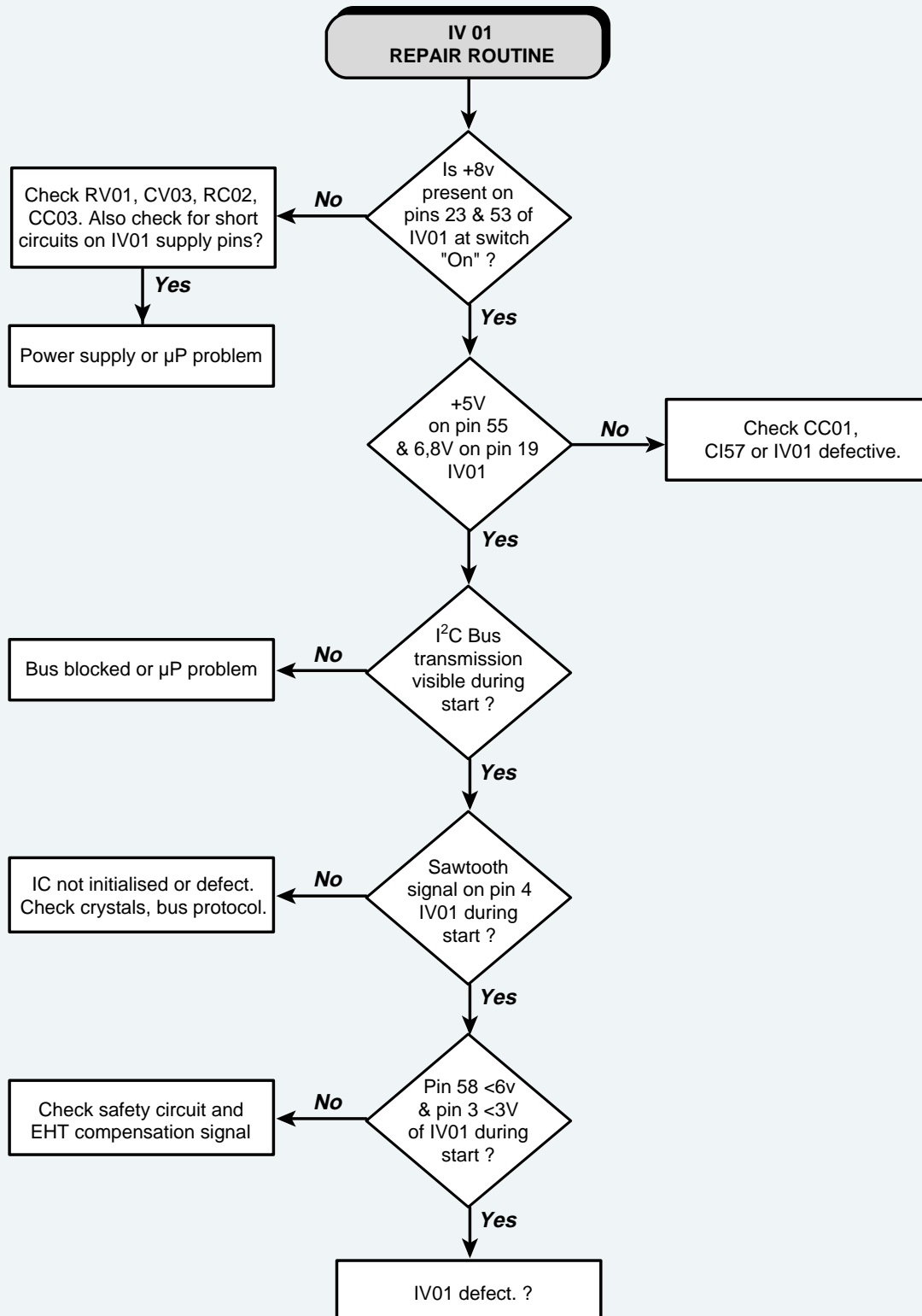
DEFLECTION CIRCUIT CHECK



DEFLECTION CIRCUIT CHECK



DEFLECTION CIRCUIT CHECK

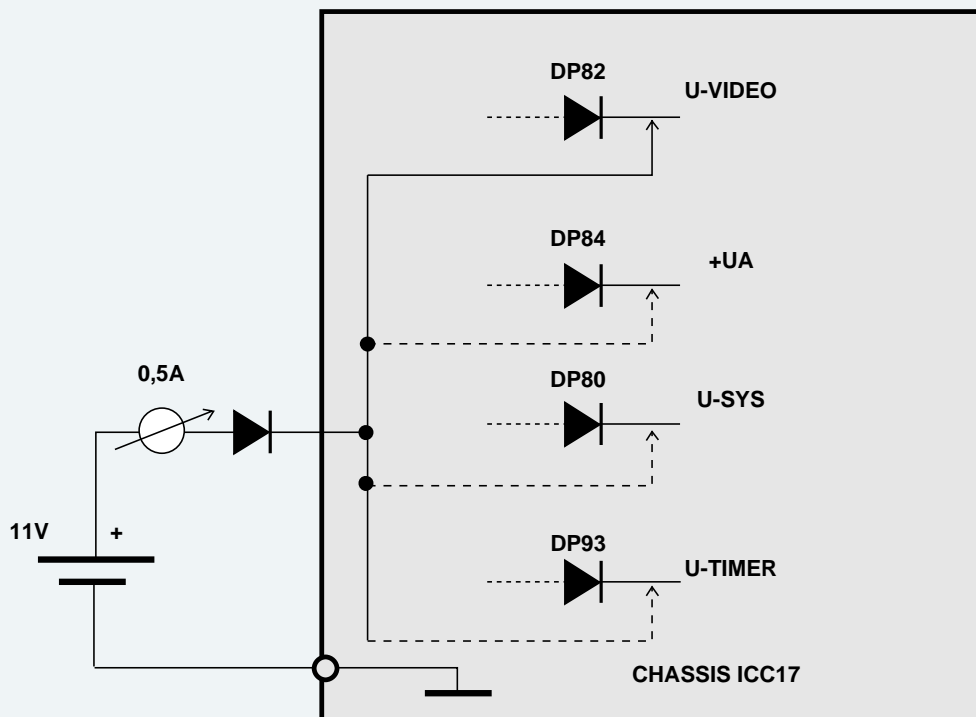


SECONDARY DC-VOLTAGES

All measurements in this chapter must be done *WITHOUT* the mains supply connected to the TV.

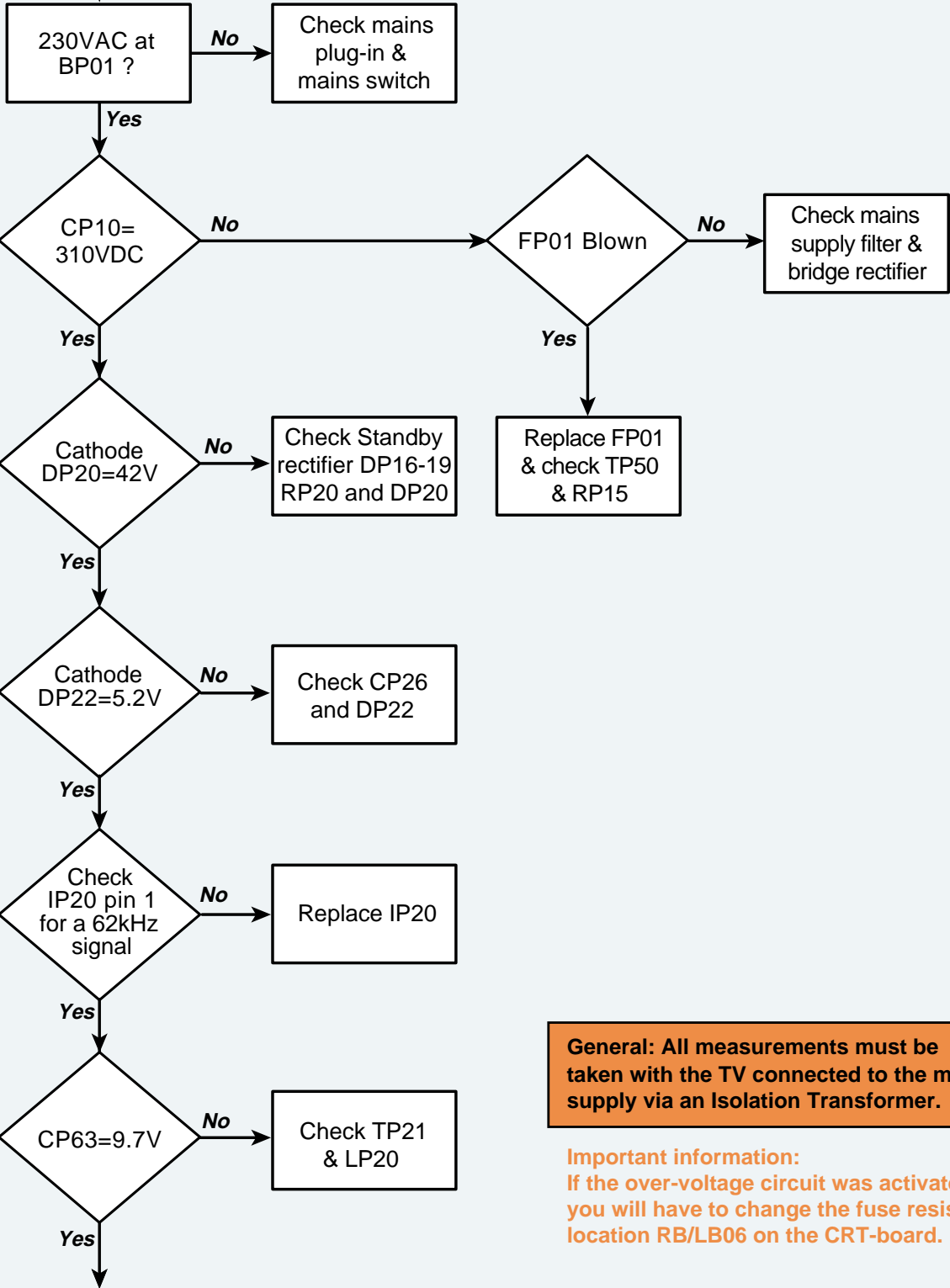
Test circuit:

The external voltage source is provided by a variable DC-power supply with its output voltage set to 11V and the current limitation set to 500mA's. The negative terminal of the DC-power supply must be directly connected to the chassis secondary ground plane. The positive terminal of the DC-power supply is first connected to an ammeter and then the anode of an isolation diode. The cathode of the isolation diode is then connected to the load on the chassis as shown below. Measure the current drawn by each load tested.



STANDBY POWER SUPPLY - PRIMARY SIDE

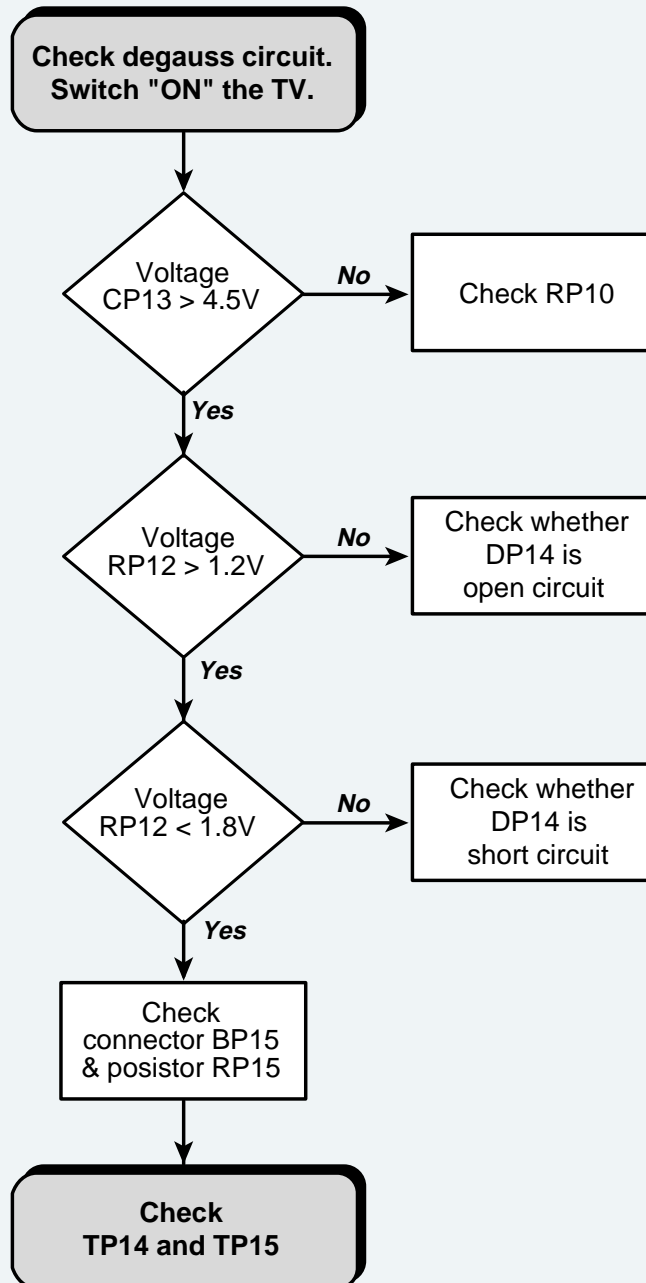
Short circuit pins 3 and 4 of LP50 and switch "ON" the mains supply.



General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you will have to change the fuse resistor at location RB/LB06 on the CRT-board.

DEGAUSSING CIRCUIT

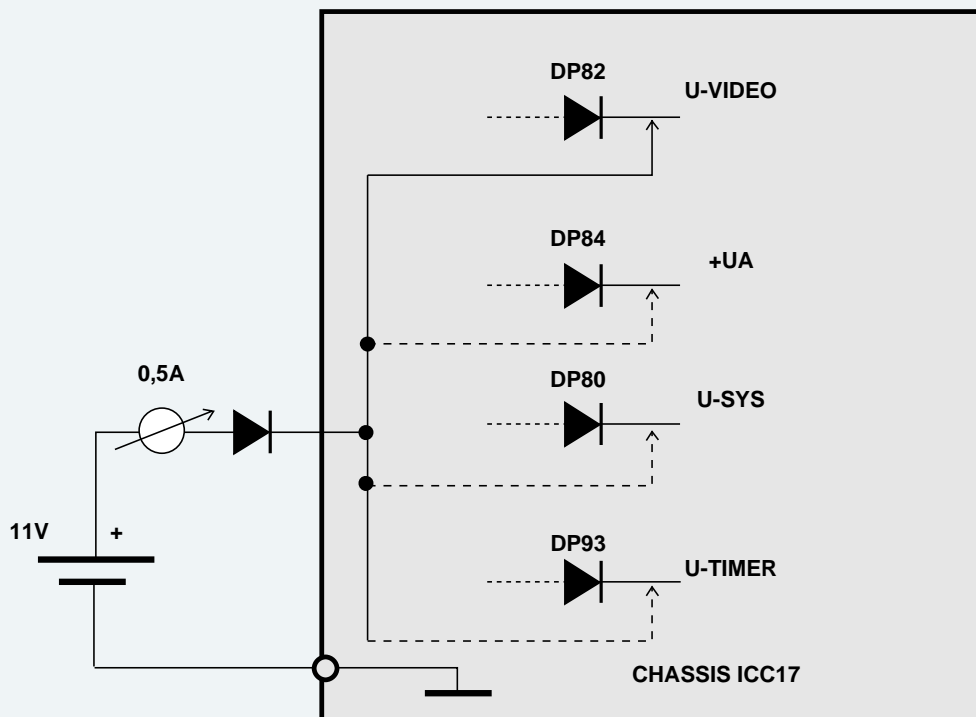


SECONDARY DC-VOLTAGES

All measurements in this chapter must be done *WITHOUT* the mains supply connected to the TV.

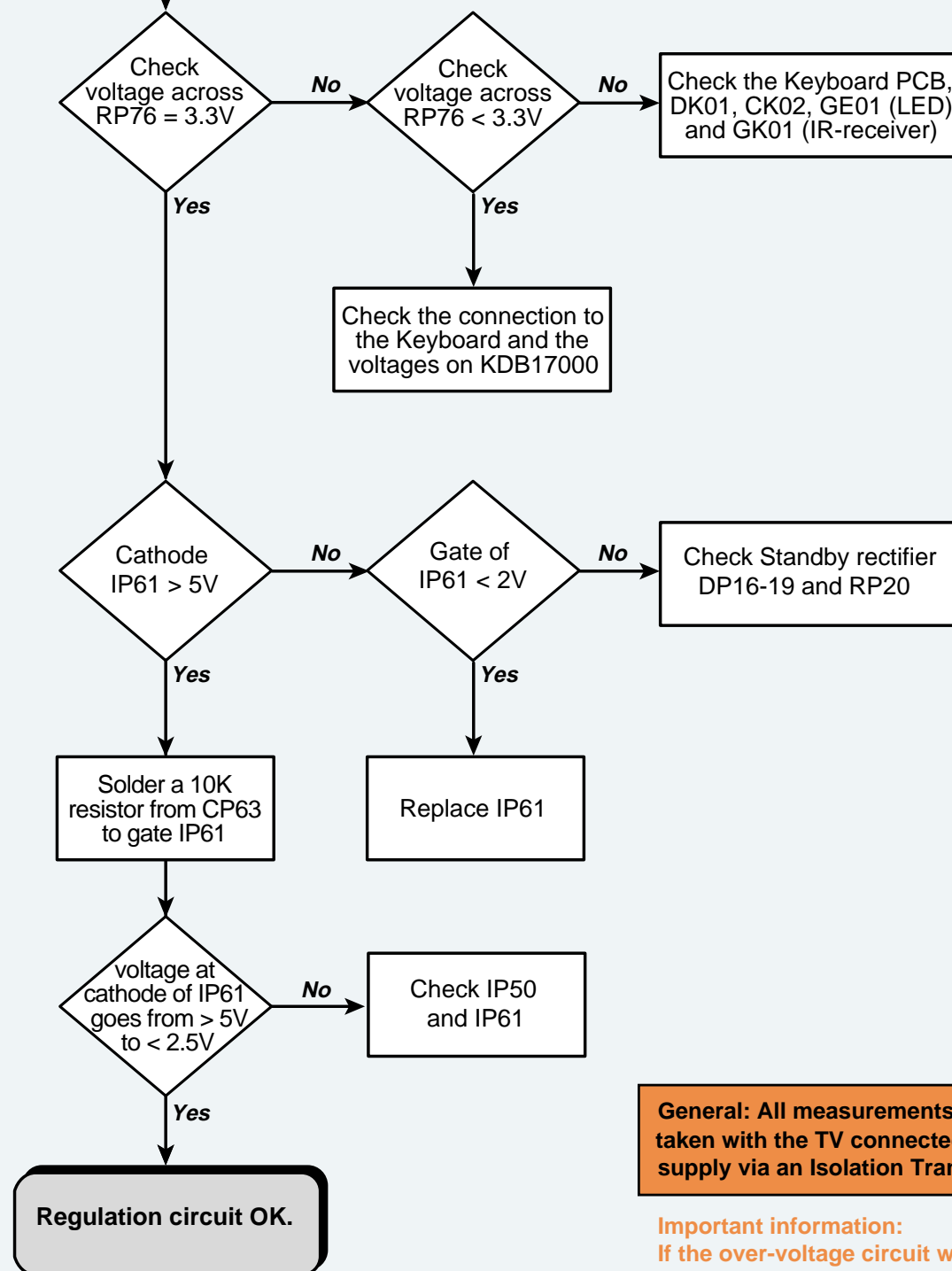
Test circuit:

The external voltage source is provided by a variable DC-power supply with its output voltage set to 11V and the current limitation set to 500mA's. The negative terminal of the DC-power supply must be directly connected to the chassis secondary ground plane. The positive terminal of the DC-power supply is first connected to an ammeter and then the anode of an isolation diode. The cathode of the isolation diode is then connected to the load on the chassis as shown below. Measure the current drawn by each load tested.



STANDBY POWER SUPPLY - SECONDARY SIDE

Short circuit pins 3 & 4 of LP50, short circuit CP69. Switch "ON" mains supply

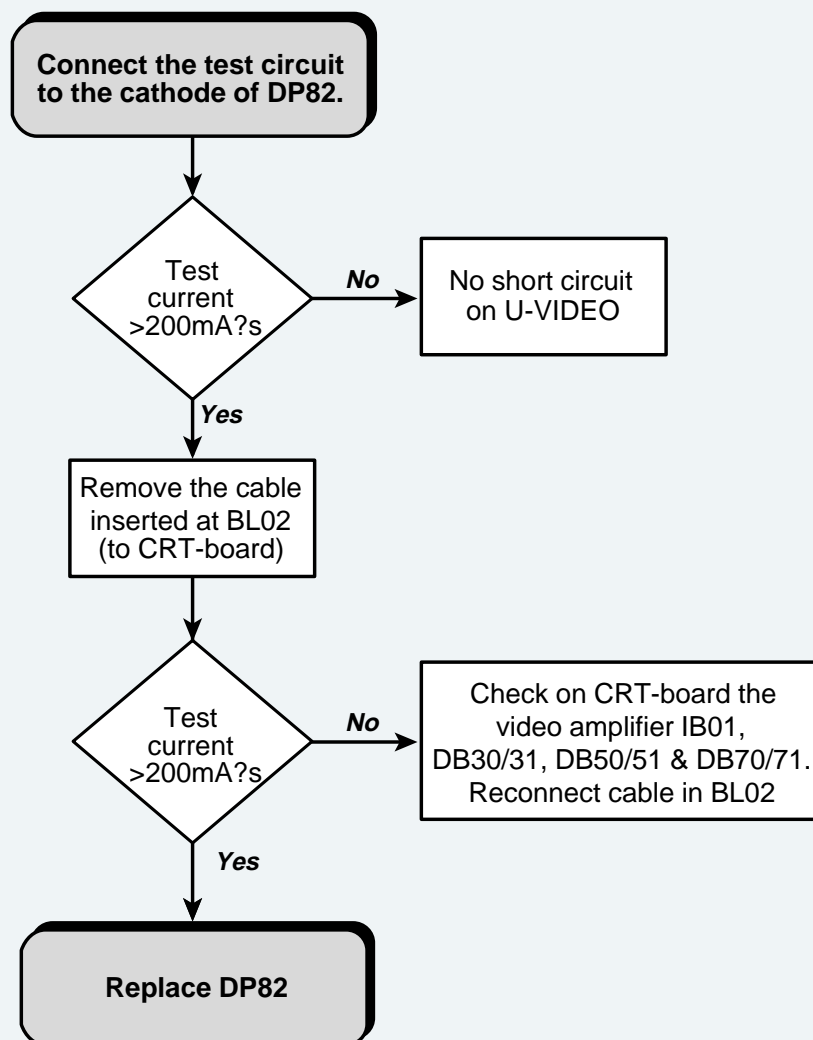


General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

After finishing this test, please remove the short circuits from pins 3/4 of LP50 and CP69 also remove the 10k resistor.

POWER SUPPLY - SECONDARY SIDE : U-VIDEO

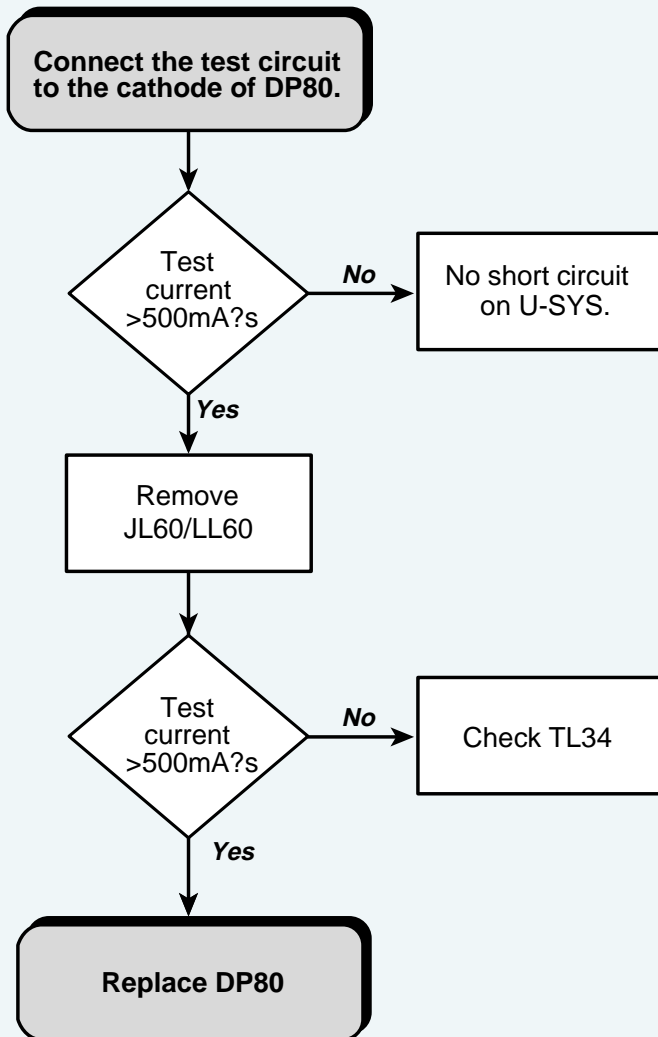


After finishing this test, please replace cable BL02 and remove the test circuit.

General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

POWER SUPPLY - SECONDARY SIDE : U-SYS

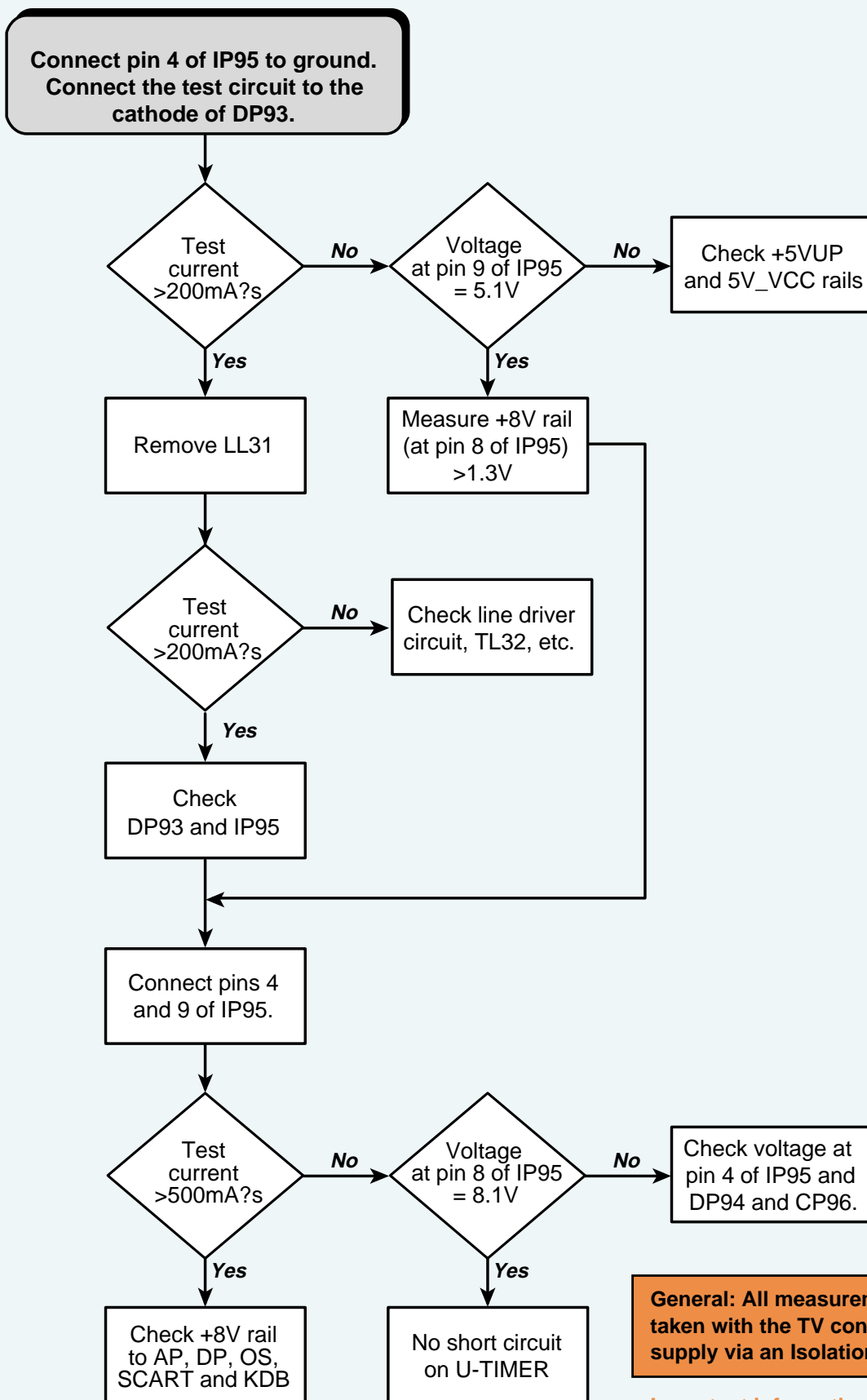


After finishing this test, please replace JL60/LL60 and remove the test circuit.

General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

POWER SUPPLY - SECONDARY SIDE : U-TIMER

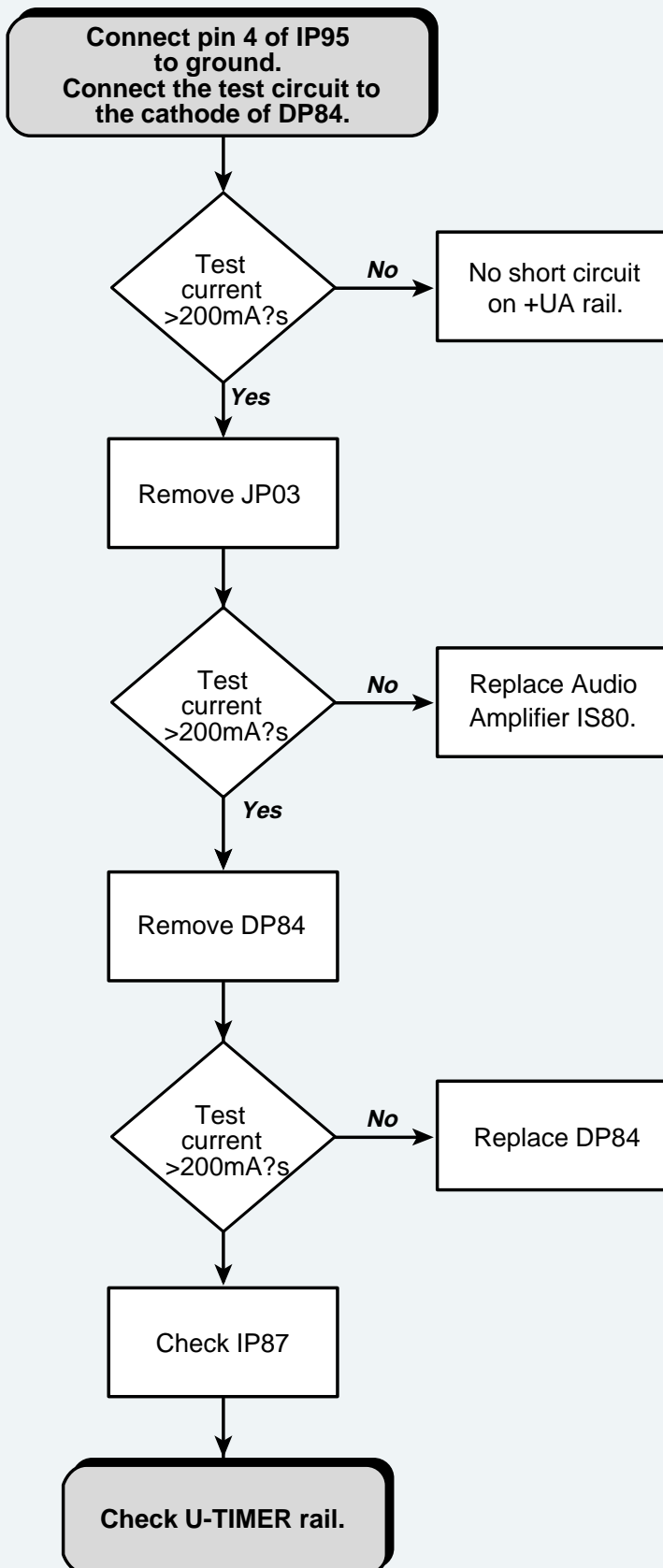


General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

After finishing this test, please replace LL31, remove the link between pins 4 and 9 of IP95 and remove the test circuit.

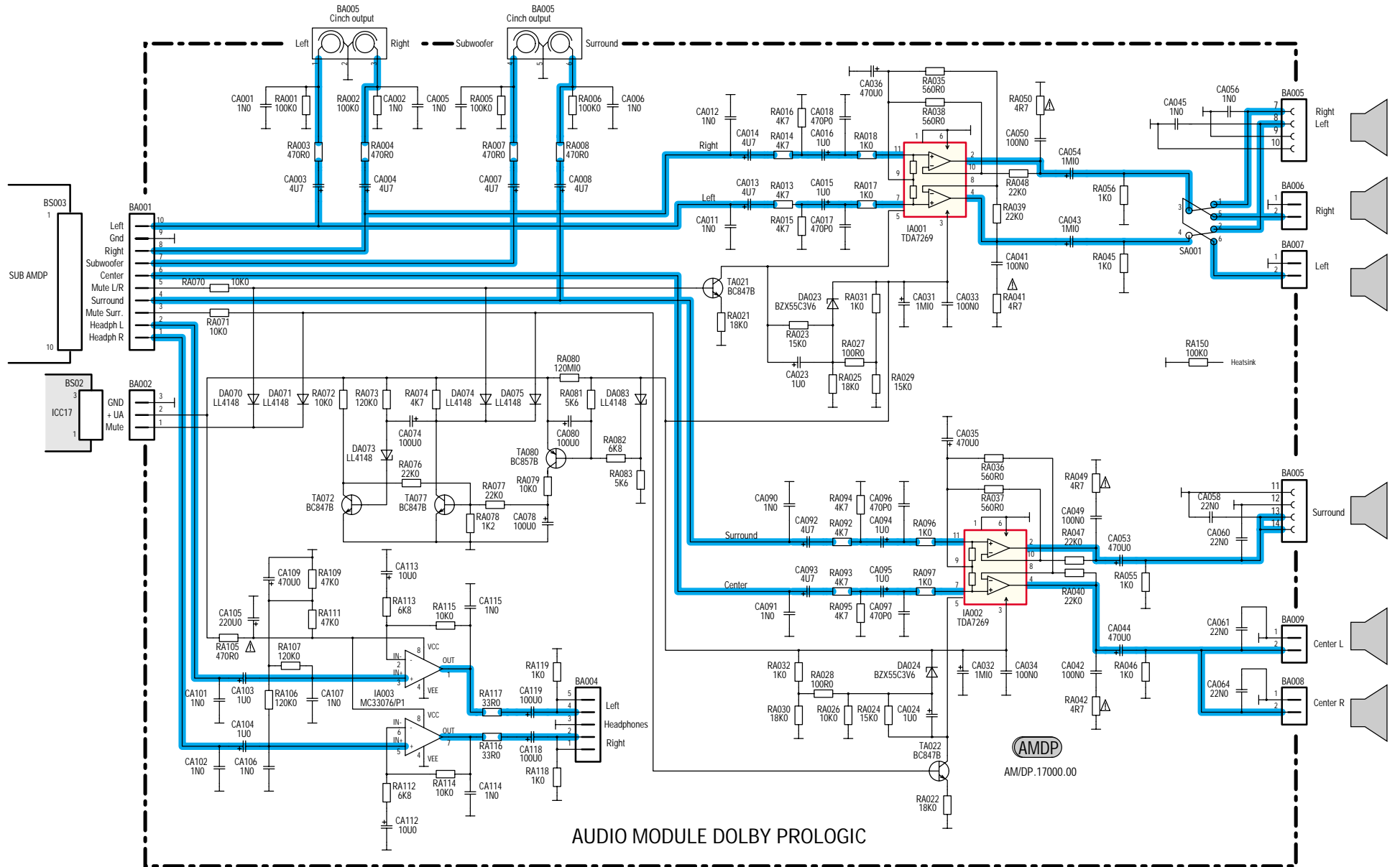
POWER SUPPLY - SECONDARY SIDE : +UA



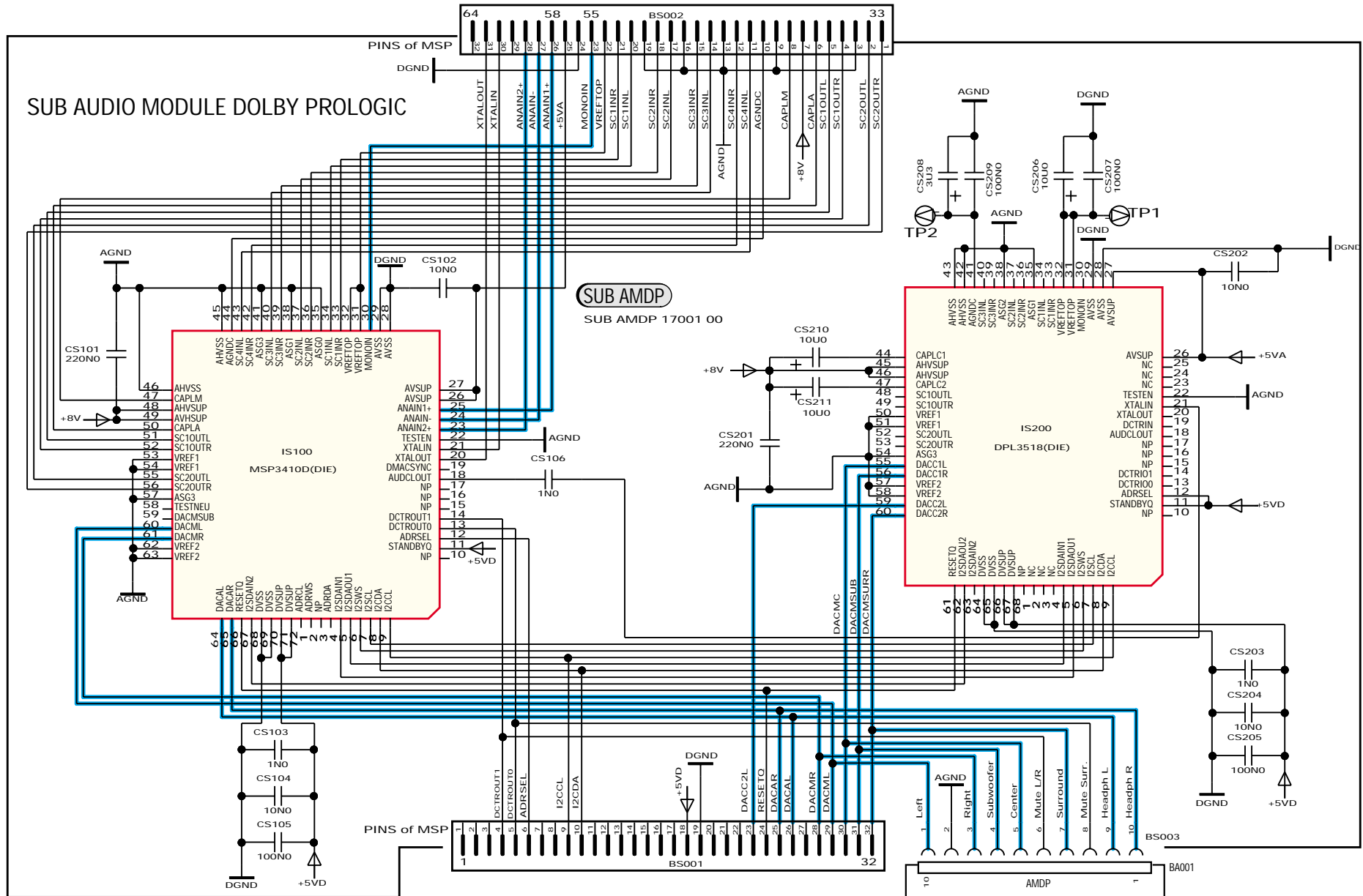
General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

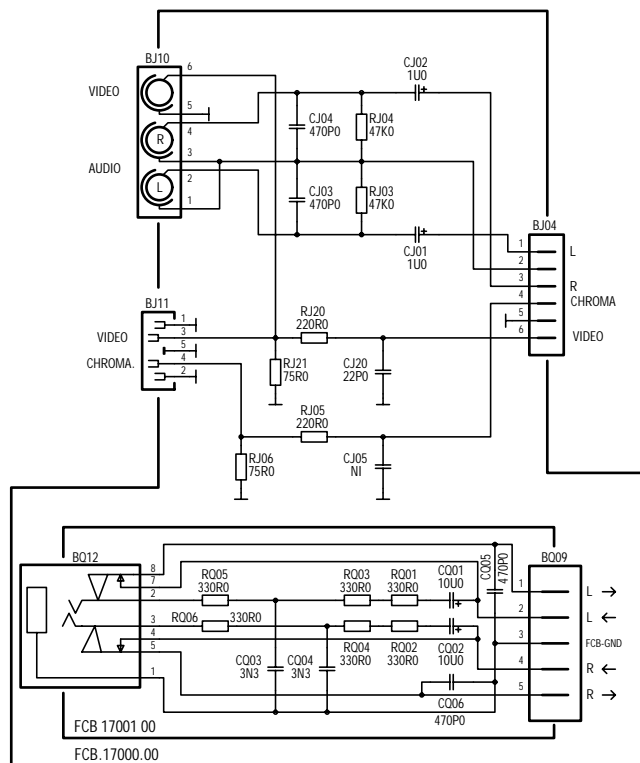
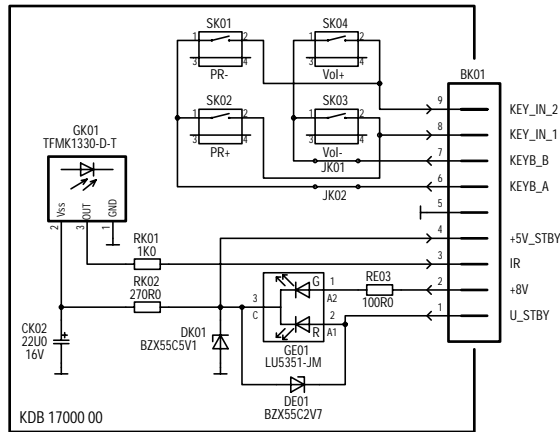
AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC
ESQUEMA DEL MÓDULO AMPLIFICADOR DE AUDIO



SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO



**KEY BOARD AND FRONT CONNECTOR BOARD
MODULE PRISE EN FACADE ET INTERCONNEXION DU CLAVIER
TASTATUR UND FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE
PLACA TECLADO Y CONECTORES FRONTALES**

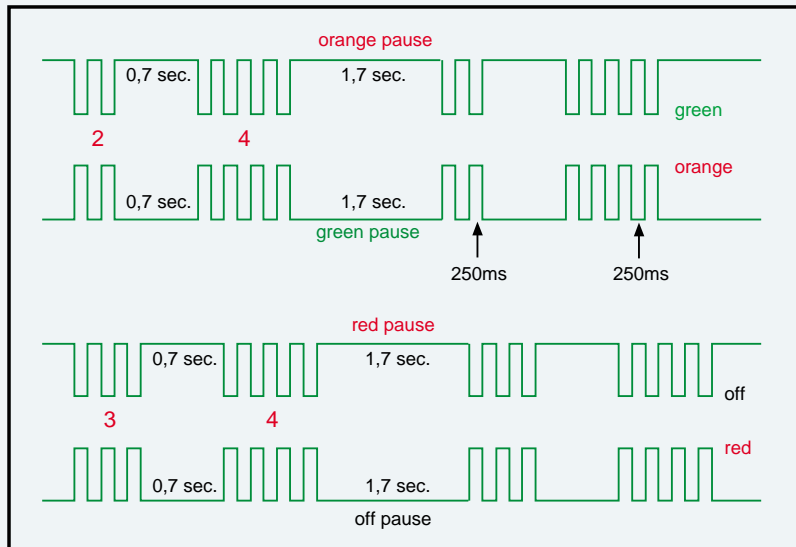


GENERAL INFORMATION - LED BEHAVIOUR

LED FLASHES

Message transmission.
The Error codes are signalled by the TV's red LED.

Count the number of flashes : error code is two burst separated by a pause of 0.7sec. and repeated four times..
There is 1.7 sec. between each codes sequence .



currently all known ICC17 TV sets are fitted with a Bicoloured LED, the red part is the Standby LED whilst, the green part is directly connected to the switched +8V supply. Therefore, the colour of the LED will depend upon the state of this voltage, the chart below gives the corresponding LED-colours:

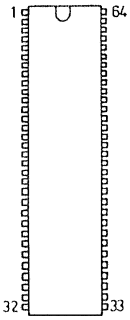
	LED-port	
	off	on
switched +8V	off	on
on	green	orange
off	off	red

CODES	DEFAULTS
14	IC TDA8855H DOES NOT ANSWER
15	AUDIO PROCESSOR NO LONGER RESPONDING.
21	SDA LINE BEING HELD LOW
23	CLOCK JAMMED AT LOW LEVEL, SCL LINE JAMMED AT LOW LEVEL.
25	SWITCHED 5V NOT AVAILABLE
26	TUBE DOES NOT GET WARM IN TIME
27	THE DETECTION SYSTEM HAS DETECTED PROTECTION ON MORE THAN THREE OCCASIONS (DOES THIS MEAN THAT A PROBLEM HAS BEEN DETECTED ON THE BREATHING LINE?).
28	SCANNING PROBLEM AFTER 2 S, THE PROGRAM TRIES TO PERFORM A START.
34	THE NVM CHIP DOES NOT ANSWER
36	WRONG NVRAM ADDRESS PASSED TO THE BUS-HANDLER
37	UNEXPECTED LEVEL ON NMI (INTERRUPT) LINE FOUND (POSSIBLE CAUSE : TUBE FLASHOVER)
41	BUS (DATA LINE) NOT RECOVERABLE

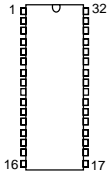
**LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS- ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABBREVIACIONES**

- **+USYS:** System voltage
- **+U_VIDEO:** Video drive voltage for the CRT board
- **+ STDBY_ ON:** Standby data (0V standby , 0.6v switched ON)
- **+5V DST:** 5v unregulated voltage from the DST
to supply the tuner and audio MSP device
- **+5V ON:** 5v regulated voltage from the DST
to supply the tuner and audio MSP device
- **+5V UP :** Microprocessor supply voltage
- **BCL:** Beam current limiting information
- **CVBS:** Composite video / luminance signal
- **CVBS_OUT:** Composite video output
- **CVBS_TXT:** Composite video for teletext extraction
- **DEGAUSS:** Degauss signal
- **EW :** East / West
- **FORMAT / BC:** Full white control DATA depending on
16/9 selected format
- **HDRV:** Horizontal deflection signal
- **HTR1 / HTR2:** Heater voltage from the DST to CRT PCB
- **LFB:** Line Fast Blanking
- **MUTE :** Mutes audio amplifiers
- **PO:** "Power ON " IP95 : reset activated and output = 8v
"PO" = 5v when TV is working in normally
- **POWER_FAIL:** Detection of mains supply and deflection stage failures
- **RESET:** Microprocessor reset signal
- **SAFETY:** Safety information from the deflection stage
- **SCL:** Serial Clock
- **SDA :** Serial Data
- **SIF:** Sound IF
- **TRAP_INFO:** 31.4Mhz IF trap activation
- **U_ STANDBY:** Standby voltage
- **U_DRIVER:** Horizontal sync signal from TDA8855H
- **U_TIMER:** 11v voltage used during "Switch ON " phase
and "Wake Up" mode
- **V FLB:** Vertical flyback reference for the microprocessor
- **V GUARD:** Safety data generated by the vertical amplifier
TDA 8351
- **V_RETRACE:** 42 / 48volts (depending on tube type) generated by
the DST and used for vertical blanking
- **V_SUPPLY:** 13.5 to 15.5 volts (depending on tube type) generated
by the DST

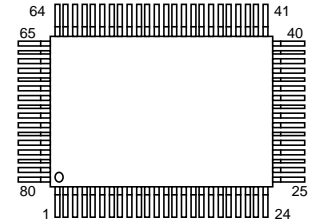
INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE -
 CIRCUITS INTEGRES ET TRANSISTORS
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN -
 CIRCUITI INTEGRATI TRANSISTOR
 CIRCUITOS INTEGRADOS Y TRANSISTORES



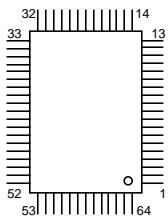
MPS3400C-PP-C6



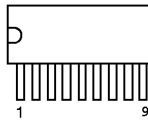
MX27C200MC-12



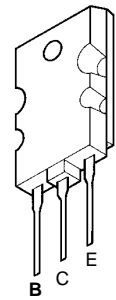
ST92R195



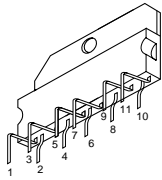
TDA8855H



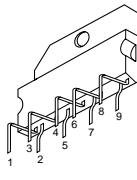
TDA8351



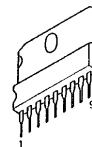
BUH516TH16



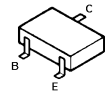
TDA7269



TDA6107Q



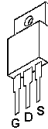
TDA 8139



BC 847B
 BC 857B
 BCR141
 BCR191
 DTC113ZK
 DTC144EK
 TN1401



ST24C08-M
 TS3702CD



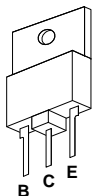
STP6 NA60F1



BT806 -600C



MC7812/CT



BD241C



BC 337
 BC 546B
 BC 547B



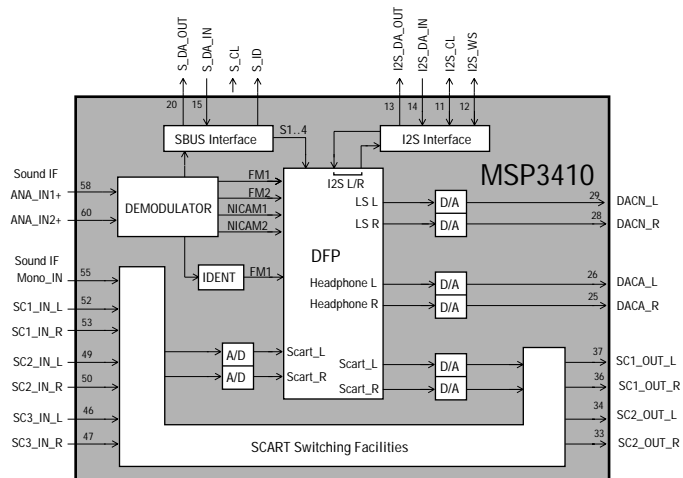
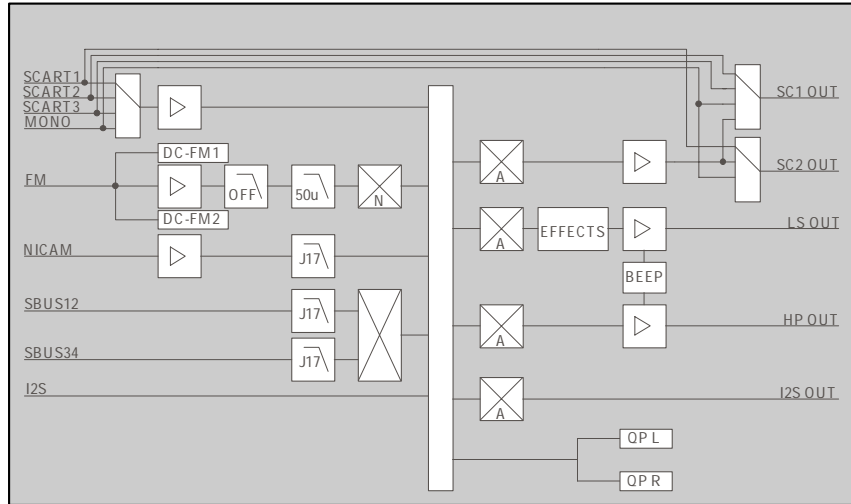
BF 422
 BF423
 2SA1020Y
 2SC2236Y



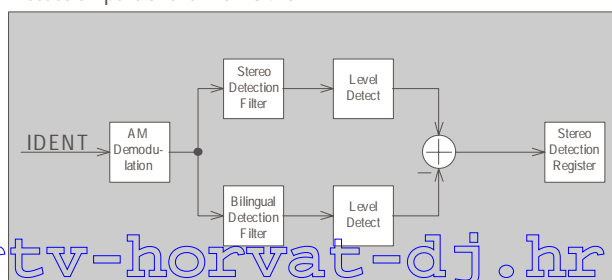
MPS750

**INTEGRATED CIRCUITS BLOCK DIAGRAMS -
 SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
 INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder
 SCHEMA A BLOCCHI DEI CIRCUITI INTEGRATI -
 VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS**

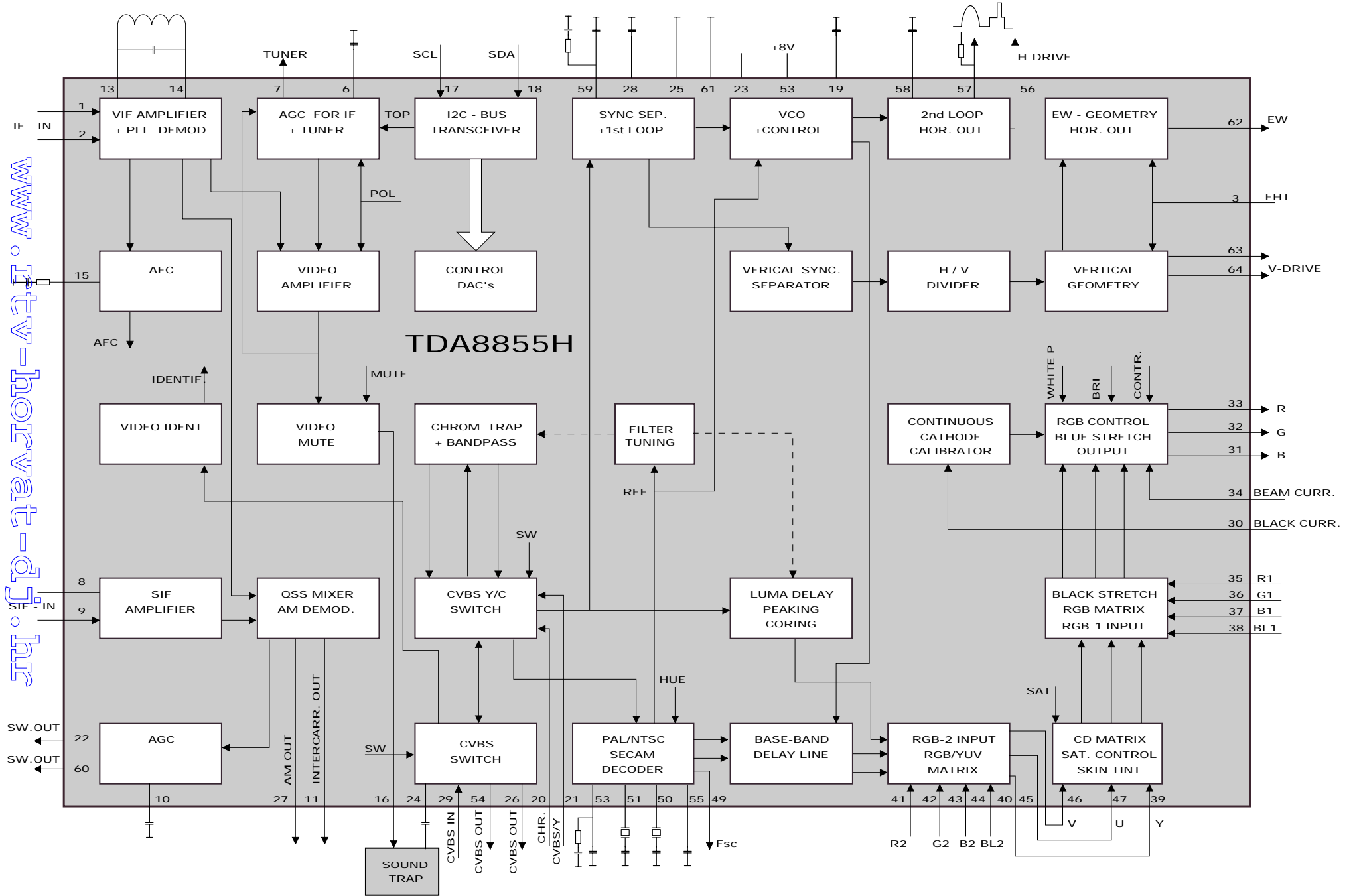
Audio baseband processing of the MSP3410



Detection part of the MSP 3410

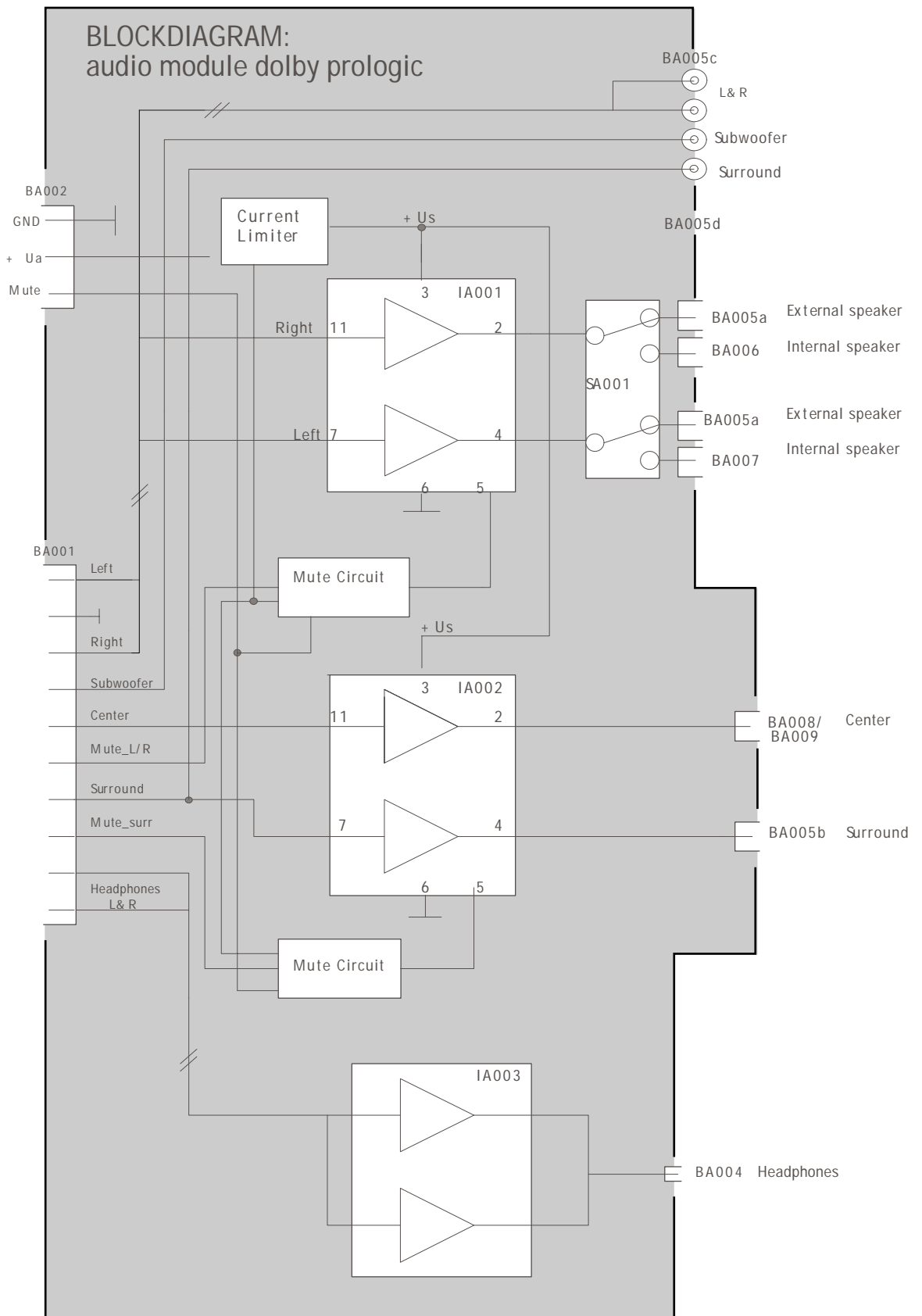


IV01 TDA 8855H

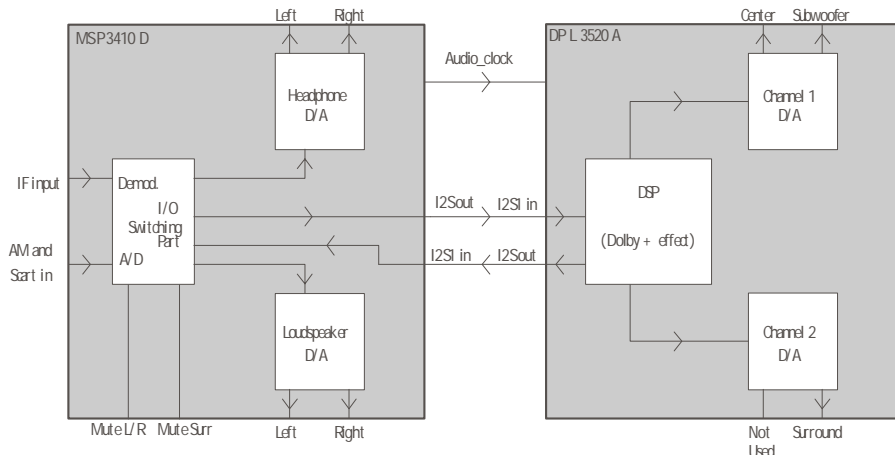


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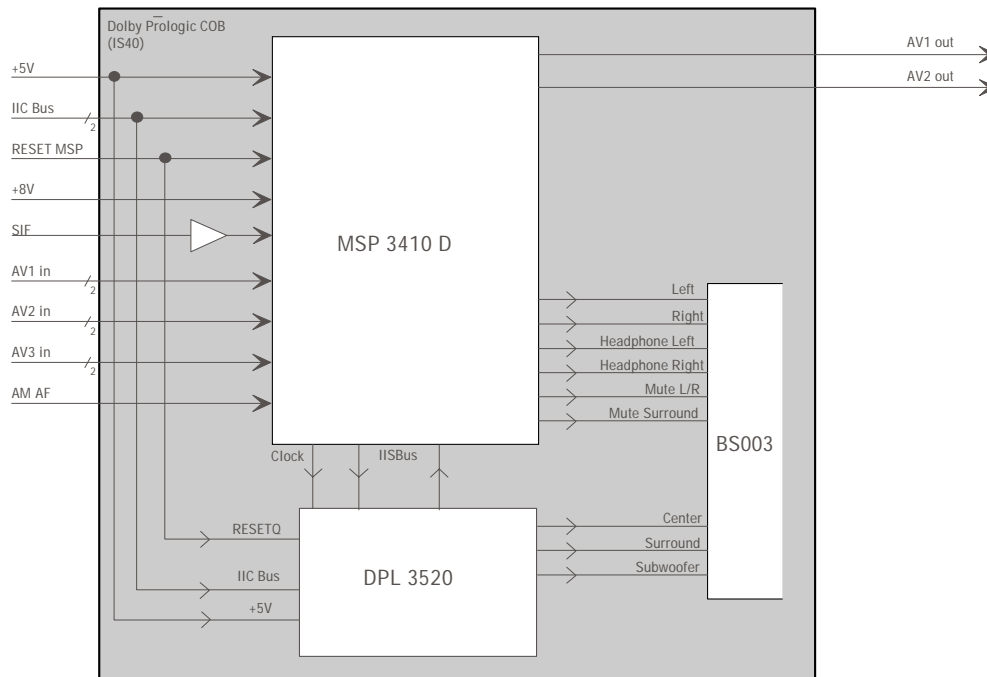
BLOCK DIAGRAM (AUDIO MODULE DOLBY PROLOGIC)
SCHEMA SYNOPTIQUE (AUDIO MODULE DOLBY PROLOGIC)
BLOCKSCHALTBILD (AUDIO MODULE DOLBY PROLOGIC)
SCHEMA A BLOCCI (AUDIO MODULE DOLBY PROLOGIC)
ESQUEMA DE BLOQUES (AUDIO MODULE DOLBY PROLOGIC)



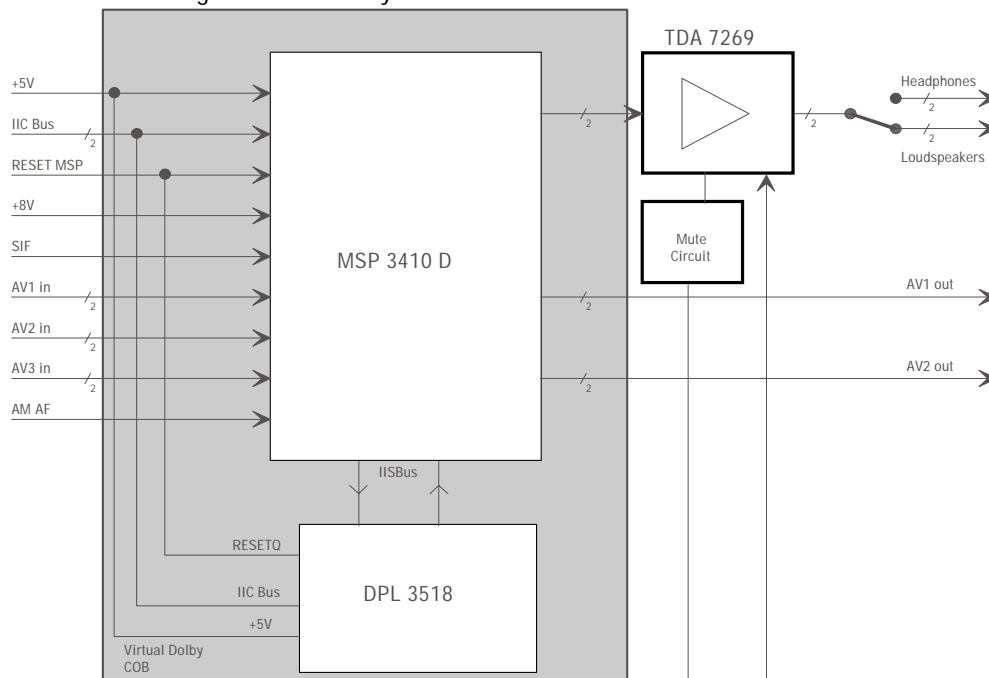
Interface requirement audio part with Dolby Prologic



Block diagram Dolby Prologic

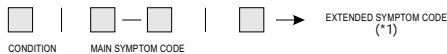


Block diagram Virtual Dolby



+UA
MUTE

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IRIS REPAIR CODING SYSTEM

SYMPTOM CODE TABLE



CONDITION CODE	MAIN SYMPTOM CODE	EXTENDED SYMPTOM CODE (*1)									
		1	2	3	4	5	6	7	8		
		NO ACTION	LEVEL	QUALITY	NOISE	UNSTABLE	RECORDING & PHYSICAL PROBLEMS	SPECIAL FUNCTIONS	OTHER CONDITIONS		
1	GENERAL	110 POWER PROBLEM	120 CHARGING PROBLEM	130 DISPLAY FUNCTION PROBLEM	140 ABNORMAL NOISE	150 REMOTE CONTROL PROBLEM	160 PHYSICAL DAMAGE	170 GENERAL FUNCTION PROBLEM	180 SPECIAL REQUIREMENTS		
		111 NO POWER ON AC	121 NO BATTERY CHARGING	131 FAULTY TIMER/COUNTER DISPLAY	141 CRT DISCHARGING NOISE	151 NO REMOTE CONTROL OPERATION	161 DAMAGED CABINET	171 FAULTY CLOCK FUNCTION	181 TEST AND CHECK		
		112 NO POWER WHEN USING AC-ADAPTER	122 INCOMPLETE BATTERY CHARGE	132 FAULTY LAMP/LED OPERATION	142 EHT DISCHARGING NOISE	152 INCORRECT REMOTE CONTROL OPERATION	162 DAMAGED HANDLE	172 FAULTY SLEEP FUNCTION	182 GENERAL OVERHAUL		
		113 NO POWER WHEN USING DRY BATTERIES	12X OTHER CHARGING PROBLEM	133 FAULTY LEVEL METER OPERATION	143 NOISY CABINET	153 REMOTE CONTROL PROGRAMMING/LEARNING MODE PROBLEM	163 DAMAGED CONTROL KNOB(S)/BUTTON(S)	173 FAULTY TIMER PROGRAMMING	183 SYSTEM FREQUENCY CONVERSION		
		114 NO POWER WHEN USING RECHARGEABLE BATTERIES		134 FAULTY ON-SCREEN DISPLAY OPERATION	144 NOISY TRANSFORMER	154 DAMAGED DIRT/COVER	164 DAMAGED SEAL	174 FAULTY TIMER RECORDING	184 INITIAL SETUP REQUESTED		
		115 NO POWER FROM SOLAR CELL		135 ELECTRONIC TUNING DISPLAY FAULT	145 NOISY COMPONENT(S)	155 POOR REMOTE CONTROL SENSITIVITY	165 DAMAGED PLUG OR SOCKET	175 SOFTWARE PROGRAMMING PROBLEM	185 MODIFICATION/CIRCUIT CHANGE		
		116 NO POWER WHEN USING A CAR BATTERY		136 MECHANICAL TUNING DISPLAY FAULT	146 RATTLE	15X OTHER REMOTE CONTROL PROBLEM	166 DAMAGED LENS	176 FAULTY RECORD MUTE OPERATION	186 WRONG SET IN CARTON		
2	COMMUNICATION	210 NO RECEPTION	220 POOR RECEPTION	230 TRANSMISSION PROBLEM	240 NOISY RECEPTION/TRANSMISSION	250 UNSTABLE RECEPTION/TRANSMISSION	260 TUNING PROBLEM	270 SPECIAL COMMUNICATION PROBLEM	280 SPECIAL RECEPTION PROBLEM		
		211 NO AM RECEPTION	221 POOR AM RECEPTION	231 NO TRANSMISSION	241 LINE NOISE	251 TUNING DRIFT	261 MANUAL TUNING PROBLEM	271 FAULTY DIALLING	281 BURIN MARK ON DISPLAY/PICKUP		
		212 NO FM RECEPTION	222 POOR FM RECEPTION	232 POOR TRANSMISSION	242 OSCILLATION	252 FADING	262 AUTOMATIC TUNING PROBLEM	272 FAULTY CHANNEL SELECTION	282 SCRATCH ON DISPLAY/PICKUP		
		213 NO SW RECEPTION	223 POOR SW RECEPTION	233 TRANSMISSION LEVEL TOO HIGH	243 INTERSTATION INTERFERENCE	253 OTHER UNSTABLE RECEPTION/TRANSMISSION PROBLEM	263 INCORRECT TUNING	273 FAULTY AUTO-ANSWER OPERATION	283 FAULTY SUB-CHANNEL (B) FUNCTION		
		214 NO VHF RECEPTION	224 POOR VHF RECEPTION	234 NO TRANSMISSION BETWEEN BASE UNIT AND HANDSET	244 UNWANTED NOISE RECEPTION/TRANSMISSION PROBLEM		264 TUNING MEMORY PROBLEM	274 FAULTY MESSAGE READ-OUT FUNCTION	284 FAULTY SSB RECEPTION		
		215 NO UHF RECEPTION	225 POOR UHF RECEPTION				265 FAULTY AUTOCALL MEMORY	275 FAULTY AUTO ANSWER OPERATION	285 FAULTY SOS/PS OPERATION		
		216 NO BS RECEPTION	226 POOR BS RECEPTION				266 DAMAGED CARTRIDGE OR SYLLUS	276 FAULTY SPEECH PROCESSING	286 FAULTY TELETEXT RECEPTION		
3	PICTURE	310 NO PICTURE	320 PICTURE LEVEL PROBLEM	330 PICTURE QUALITY PROBLEM	340 PICTURE NOISE	350 UNSTABLE PICTURE	360 POOR PICTURE RECORDING	370 SPECIAL PICTURE FUNCTION PROBLEM	380 PICTURE DISPLAY/PICKUP PROBLEM		
		311 NO PICTURE IN E TO E MODE	321 PICTURE TOO DARK	331 POOR PICTURE RESOLUTION	341 SNOWY PICTURE	351 SYNC PROBLEM	361 NO PICTURE RECORDING	371 EDITING PROBLEM	381 BURIN MARK ON DISPLAY/PICKUP		
		312 NO PICTURE IN PLAYBACK MODE	322 PICTURE TOO BRIGHT	332 POOR FOCUS	342 DOT NOISE OR DROPOUT ON PICTURE	352 NO ERASURE PROTECTION FOR VIDEO	362 FAULTY PAUSE OPERATION	372 FAULTY PAUSE OPERATION	382 SCRATCH ON DISPLAY/PICKUP		
		313 NO PICTURE IN VIEWFINDER	323 CONTRAST TOO LOW	333 RINGING ON PICTURE	343 NOISE BARS ON PICTURE	353 PICTURE JITTER	363 PREVIOUS VIDEO RECORDING NOT BEING ERASED	373 FAULTY NEGATIVE/POSITIVE SWITCHING FUNCTION	383 DUST/DIRT ON DISPLAY/PICKUP		
		314 NO PICTURE, ONLY RASTER	324 CONTRAST TOO HIGH	334 EXCESSIVE SMEAR/LAG	344 BLANKING LINES ON PICTURE	354 PICTURE SHAKING (HORIZONTAL OR VERTICAL)	364 UNWANTED ERASURE OF PICTURE	374 PICTURE SUPERIMPOSE/TELOP OPERATION	384 PHOSPHOR/PIXEL MISSING ON DISPLAY/PICKUP		
		315 NO RASTER, BLACK PICTURE	325 SATURATED WHITE OR BLACK LEVEL	335 POOR LINEARTY OR GEOMETRY	345 BEATING ON PICTURE	355 FLICKERING PICTURE	365 NO CAMERA RECORDING	375 FAULTY PICTURE IN PICTURE/DIGITAL PICTURE OPERATION	385 BRIGHT POINT(S) IN PHOSPHOR/PIXEL		
		316 ONLY HORIZONTAL LINE	326 SHADING ON PICTURE	336 PICTURE SIZE INCORRECT	346 GHOSTING ON PICTURE	356 FLASHING PICTURE	366 ONLY ONE FIELD PER FRAME BEING RECORDED	376 FAULTY PICTURE TRANSMISSION	386 OTHER PICTURE DISPLAY/PICKUP PROBLEM		
4	COLOUR	410 NO COLOUR	420 COLOUR LEVEL PROBLEM	430 POOR COLOUR QUALITY	440 NOISY COLOUR	450 UNSTABLE COLOUR	460 POOR COLOUR RECORDING	470 SPECIAL COLOUR FUNCTION PROBLEM	480 SPECIAL COLOUR FUNCTION PROBLEM		
		411 NO COLOUR IN E TO E MODE	421 WEAK COLOUR	431 SOME OR ALL COLOURS MISSING	441 COLOUR NOISE ON A BLACK & WHITE PICTURE	451 COLOUR FLASHING	461 NO COLOUR RECORDING	471 FAULTY AUTOMATIC WHITE BALANCE	481 FAULTY AUTOMATIC WHITE BALANCE		
		412 NO COLOUR IN PLAYBACK MODE	422 EXCESSIVE COLOUR	432 POOR WHITE BALANCE	442 COLOUR STREAKING	452 HUE CONSTANTLY CHANGING	462 OTHER COLOUR RECORDING PROBLEM	472 FAULTY WHITE EFFECTS FUNCTION	482 DIFFERENCE IN PHASE BETWEEN CHANNELS		
		413 NO COLOUR IN VIEWFINDER	42X OTHER COLOUR LEVEL PROBLEM	433 HUE PROBLEM	443 PURITY ERROR	453 FLICKERING COLOUR	463 FLICKERING COLOUR	473 FAULTY DIGITAL SHUTTER FUNCTION	483 PROBLEM WITH SURROUND SOUND MODE		
		414 NO COLOUR IN PART OF PICTURE		434 PURITY ERROR	444 LANDING ERROR	454 COLOUR NOT LOCKED	464 OTHER UNSTABLE COLOUR PROBLEM	474 FAULTY GENLOCK FUNCTION	484 PROBLEM WITH PCM AUDIO MODE		
		41X OTHER 'NO COLOUR' PROBLEM		435 LANDING ERROR	445 CONVERGENCE ERROR			475 FAULTY FLASH/STROBE FUNCTION	485 OTHER STEREO/MULTI MODE OPERATION		
				436 REGISTRATION ERROR	446 PITCH MOIRÉ			476 FAULTY DIGITAL PICTURE FUNCTION	486 OTHER SPECIAL COLOUR FUNCTION PROBLEM		
5	AUDIO	510 NO AUDIO	520 AUDIO LEVEL PROBLEM	530 AUDIO QUALITY	540 NOISY AUDIO	550 UNSTABLE AUDIO	560 POOR AUDIO RECORDING	570 POOR SPECIAL AUDIO FUNCTION	580 STEREO/MULTI MODE OPERATION PROBLEM		
		511 NO SOUND IN E TO E MODE	521 LOW AUDIO LEVEL	531 POOR FREQUENCY RESPONSE	541 HUM	551 JUMPING OR REPEATING AUDIO	561 AUDIO NOT BEING RECORDED	571 FAULTY FADE OPERATION	581 NO STEREO OPERATION		
		512 NO PLAYBACK OF OUTGOING MESSAGE(S)	522 EXCESSIVE AUDIO LEVEL	532 DISTORTED AUDIO	542 HISSE	552 AUDIO PUMPING OR BREATHING	562 NO ERASURE PROTECTION FOR AUDIO	572 FAULTY ECHO OPERATION	582 POOR CHANNEL SEPARATION		
		513 NO PLAYBACK OF INCOMING MESSAGE(S)	523 BALANCE PROBLEM	533 POOR LINEARTY OR GEOMETRY	543 AUDIO DROPOUTS	553 PREVIOUS AUDIO RECORDING NOT BEING ERASED	563 ERASED	573 FAULTY MIXING OPERATION	583 DIFFERENCE IN PHASE BETWEEN CHANNELS		
		51X OTHER 'NO AUDIO' PROBLEM	524 FADER PROBLEM	534 NO OR POOR BASS	544 STATIC, POP OR CLICK NOISE	554 CYCLIC AUDIO MUTING	564 UNWANTED ERASURE OF AUDIO	574 FAULTY REPEAT MODE OPERATION	584 PROBLEM WITH SURROUND SOUND MODE		
			525 AUDIO LEVEL REMAINING	535 OTHER AUDIO QUALITY PROBLEM	545 BUZZ	555 WOW AND FLUTTER	565 MESSAGE NOT BEING RECORDED	575 FAULTY AUDIO PROCESSING	585 PROBLEM WITH PCM AUDIO MODE		
			52X OTHER AUDIO LEVEL PROBLEM		546 SCRATCHING NOISE	556 HOWLING/Acoustic FEEDBACK	566 OTHER UNSTABLE AUDIO PROBLEM	576 FAULTY DB/DOL OPERATION	586 OTHER STEREO/MULTI MODE OPERATION		
6	MECHANISM	610 NO MECHANICAL OPERATION	620 IRREGULAR MECHANICAL OPERATION	630 SPEED PROBLEM	640 MECHANICAL NOISE	650	660 DAMAGE TO SOFTWARE	670 MECHANICAL OPERATION PROBLEM	680 LENS PROBLEM		
		611 NO DISC ROTATION	621 IRREGULAR ROTATION	631 SPEED TOO FAST	641 ROTATION NOISE		661 TAPE GETS SCRATCHED	671 FAULTY START/STOP OPERATION	681 FOCUS PROBLEM		
		612 NO FORWARD OPERATION	622 IRREGULAR FORWARD MODE	632 SPEED TOO SLOW	642 MOTOR NOISE		662 DISC GETS SCRATCHED	672 FAULTY PAUSE OPERATION	682 ZOOM PROBLEM		
		613 NO REVERSE OPERATION	623 IRREGULAR REVERSE OPERATION	63X OTHER SPEED PROBLEM	643 WIND NOISE		663 TAPE GETS CHEWED/WRINKLED	673 FAULTY AUTOMATIC PROGRAM SEARCH	683 IRIS PROBLEM		
		614 NO FAST FORWARD OR REWIND FUNCTION	624 BALANCE PROBLEM		644 TAPE SQUEALING		664 TAPE JAMMED OR BROKEN	674 FAULTY CUE/REVIEW MODE	684 SACRO PROBLEM		
		615 NO LOADING	625 IRREGULAR LOADING		645 FAN NOISE		665 TAPE GETS CURLED	675 FAULTY SLOW MOTION OPERATION	685 OTHER LENS PROBLEM		
		616 NO UNLOADING OR EJECTING OF TAPE	626 IRREGULAR UNLOADING OR EJECTING OF TAPE		646 DISC SCRAPPING		666 SLACK TAPE	676 FAULTY HIGH-SPEED SCANNING MODE	686 FONT LOADING PROBLEM		
7	DATA PROCESSING	710 NO DATA PROCESSING	720 FAULTY DATA PROCESSING OPERATION	730 DATA DISPLAY PROBLEM	740 NOISY PRINTING	750	760 DATA READ/WRITE PROBLEM	770 SPECIAL DATA PROCESSING	780 FAULTY FONT/CHARACTER FUNCTION PROBLEM		
		711 NO INITIAL SCREEN	721 INCORRECT DATA	731 INCORRECT CHARACTER DISPLAY	741 PRINTING NOISE LINES		761 FORMATTING PROBLEM	771 FAULTY SELF-DIAGNOSTIC MODE	781 INCORRECT CHARACTERS		
		712 SYSTEM DOES NOT RESET	722 SYSTEM RESET WHILE BEING USED	732 MISSING DISPLAY CHARACTERS	742 DIRTY PRINTING		762 DATA ON STORAGE MEDIUM BEING LOST	772 FAULTY WORD PROCESSING FUNCTION	782 INCORRECT CHARACTER SIZE		
		713 SYSTEM DOES NOT BOOT UP	723 SYSTEM LOCKS OUT/CRASHES	733 FAULTY GRAPHIC DISPLAY	743 OTHER NOISY PRINTING PROBLEM		763 FRAME MEMORY PROBLEM	773 FAULTY GRAPHIC EDIT FUNCTION	783 FONT LOADING PROBLEM		
		714 NO OPERATION FROM PLUG-IN MODULE	724 FAULTY SWITCHING BETWEEN GRAPHIC/CHARACTER MODE	734 FAULTY SWITCHING BETWEEN GRAPHIC/CHARACTER MODE			764 OTHER DATA READ/WRITE PROBLEM	774 OTHER 'SPECIAL DATA FUNCTION' PROBLEM	784 OTHER FAULTY FONT/CHARACTER FUNCTION PROBLEM		
		715 NO KEYBOARD OPERATION	725 FAULTY KEYBOARD OPERATION						785 OTHER FAULTY FONT/CHARACTER FUNCTION PROBLEM		
		716 NO OPERATION FROM OTHER INPUT/OUTPUT	726 FAULTY OPERATION OF OTHER INPUT/OUTPUT								
8	PRINTING	810 NO PRINTER OPERATION	820 ERRONEOUS PRINTER OPERATION	830 POOR PRINT QUALITY	840 NOISY PRINTING	850 UNSTABLE PRINTER OPERATION	860 RIBBON/PAPER PROBLEMS	870	880 FAULTY FONT/CHARACTER FUNCTION PROBLEM		
		811 NOT PRINTING	821 PRINT IMAGE REVERSED (NEGATIVE/ POSITIVE)	831 INCORRECT PRINTING POSITION	841 PRINTING NOISE LINES	851 UNSTABLE PAPER LOADING	861 RIBBON BROKEN	871	881 INCORRECT CHARACTERS		
		812 NO COMMUNICATION WITH PRINTER	822 IRREGULAR PAPER FEED	832 LOW PRINT CONTRAST	842 DIRTY PRINTING	852 UNSTABLE MULTI-PAPER LOADING	862 RIBBON STUCK/STICKING	872	882 INCORRECT CHARACTER SIZE		
		813 PAPER NOT LOADING	823 ERREGULAR PAPER FEED	833 EXCESSIVE PRINT CONTRAST		853 INCORRECT LINE-UP OF CHARACTERS	863 RIBBON DERAILED	873	883 FONT LOADING PROBLEM		
		814 PAPER FEED	824 ERRONEOUS PRINT MODE SWITCHING	834 BLURRED PRINT IMAGE		854 OTHER UNSTABLE PRINTER OPERATION	864 PAPER STUCK/STICKING TO MECHANISM	874	884 OTHER FAULTY FONT/CHARACTER FUNCTION PROBLEM		
		815 NO IMAGE FIXATION	825 PRINT IMAGE NOT SHARP	835 PRINT IMAGE NOT SHARP		85X PROBLEM	865 PRINT JAM	875	885 OTHER FAULTY FONT/CHARACTER FUNCTION PROBLEM		
		81X OTHER NO PRINTER OPERATION PROBLEM	82X OTHER PRINTER OPERATION PROBLEM	83X OTHER PRINT QUALITY PROBLEM			86X OTHER RIBBON/PAPER PROBLEM	876	886 OTHER FAULTY FONT/CHARACTER FUNCTION PROBLEM		

(*1) CAUTION
THE 'X' EXTENDED SYMPTOM CODES ('-XX') SHOULD ONLY BE USED TO INDICATE THAT A SUITABLE SYMPTOM DESCRIPTION IS NOT AVAILABLE IN THE CONCERNED SYMPTOM GROUP

SECTION CODES

ANT	ANTENNA SECTION
APA	AUDIO PROCESSING/ANALOG
APD	AUDIO PROCESSING/DIGITAL
APR	SIGNAL PROCESSING (ANALOG)
ARM	ARM MECHANISM
BCH	BATTERY CHARGE
BZL	BEZEL
CBT	CABINET
CHA	CHASSIS
CLK	CLOCK/TIMER SECTION
CPA	COLOUR PROCESSING/ANALOG
CPD	COLOUR PROCESSING/DIGITAL
CRT	PICTURE TUBE
CTR	CONTROL PANEL
DDM	DISC DRIVE MECHANISM
DFL	DEFLECTION CIRCUIT
DPR	SIGNAL PROCESSING (DIGITAL)
ERA	ERASE CIRCUIT
EXC	EXTERNAL CONNECTOR
FDD	FLOPPY DISC DRIVE
FLX	FLEXIBLE PCB
FMW	FIRMWARE
FPK	FOCUS PACK
HCM	HEAD CARRIAGE MECHANISM

HDD	HARD DISC DRIVE
HFS	HIGH FREQUENCY SECTION (RF)
HOL	CASSETTE HOLDER
IDS	INFORMATION DISPLAY SECTION
IFC	IF-CIRCUIT
IMG	IMAGE DISPLAY UNIT
INC	INTERNAL CONNECTOR
INP	SIGNAL INPUT SECTION
KBD	KEYBOARD (SEPARATE)
LDG	LOADING MECHANISM
LNM	LENS MECHANISM
MEM	MEMORY CIRCUIT
MIC	MICROPHONE SECTION
OUT	SIGNAL OUTPUT SECTION
PFM	PAPER FEED MECHANISM
PIN	PINCH ROLLER/LEVER
PRG	PROGRAMMING SECTION
PRI	PRINT BLOCK
PRT	PROTECTION CIRCUIT
PSU	POWER SUPPLY
PUD	PICK-UP DEVICE
PWA	POWER AMP SECTION
REM	REMOTE CONTROL SECTION
RFM	RIBBON FEED MECHANISM

RFU	BOOSTER/RF UNIT
RHD	ROTARY HEAD(S)
SFT	SOFTWARE (TAPE, DISC, ETC.)
SHD	STATIONARY HEAD(S)
SLD	SLED MECHANISM
SNS	SENSOR UNIT
SPK	SPEAKER
SRS	SUPPLY REEL SECTION
STA	STATIC BLOCK
SVO	SERVO SECTION
SYS	SYSTEM CONTROL SECTION
TDM	TAPE DRIVE MECHANISM
THR	THREADING MECHANISM
TIM	TIMER SECTION
TNR	TENSION REGULATOR
TPT	TAPE PATH
TRS	TAKE-UP REEL SECTION
TUN	TUNING SECTION
TXT	TEXT PROCESSING
VPA	VIDEO PROCESSING/ANALOG
VPD	VIDEO PROCESSING/DIGITAL
VWF	VIEWFINDER
WIR	LEAD WIRE
XXX	CABINET/COSMETIC PARTS

DEFECT CODES

MECHANICAL		ELECTRICAL	
A	WORN OUT	N	EXHAUSTED, LOW EMISSION
B	DIRTY, CLOGGED	O	BURNT, ARCING, MISSING PIXELS
C	MISALIGNED	P	MISALIGNED
D	CUT, BROKEN	Q	SHORT
E	DEFORMED	R	OPEN
F	SNAPPED	S	LEAKING
G	SCRATCHED	T	BAD CONTACT, CONNECTION
H	CRACKED, PEELED, CORRODED	U	OPEN PATTERN
I	LOOSE	V	CRACKED PCB
J	SHAKY, UNSTABLE	W	COLD OR NO SOLDERING
K	LEAKING	X	BRIDGED SOLDERING
L	DRY (NO LUBRICANT)	Y	WRONG COMPONENT
M	FOREIGN OBJECT	Z	MISSING COMPONENT
		1	SOFTWARE BUG

REPAIR CODES

A	REPLACEMENT	N	MAINTENANCE
B	MECHANICAL ALIGNMENT	O	REFURBISHING
C	ELECTRICAL ALIGNMENT	P	PREVENTIVE PARTS REPLACEMENT
D	RESOLDERING	Q	PREVENTIVE ACTION WITHOUT PARTS REPLACEMENT
E	CLEANING	U	EXPLANATION FOR CUSTOMER
F	LUBRICATION	V	ESTIMATION REFUSED
G	REPAIRED ELECTRICAL PARTS	W	ESTIMATION WITH PARTS
H	REPAIRED MECHANICAL PARTS	X	ESTIMATION WITHOUT PARTS
I	S/B MODIFICATION		
J	REMOVED COMPONENT (S)	Y	RETURN WITHOUT REPAIR
K	ADDED COMPONENTS	Z	SET EXCHANGE
L	FUNCTIONAL CHECK		
M	SPECIFICATION MEASUREMENT		

FLAG: INDICATES THE ONE MAJOR SYMPTOM/PART COMBINATION BY '1'

EXAMPLE OF USE :

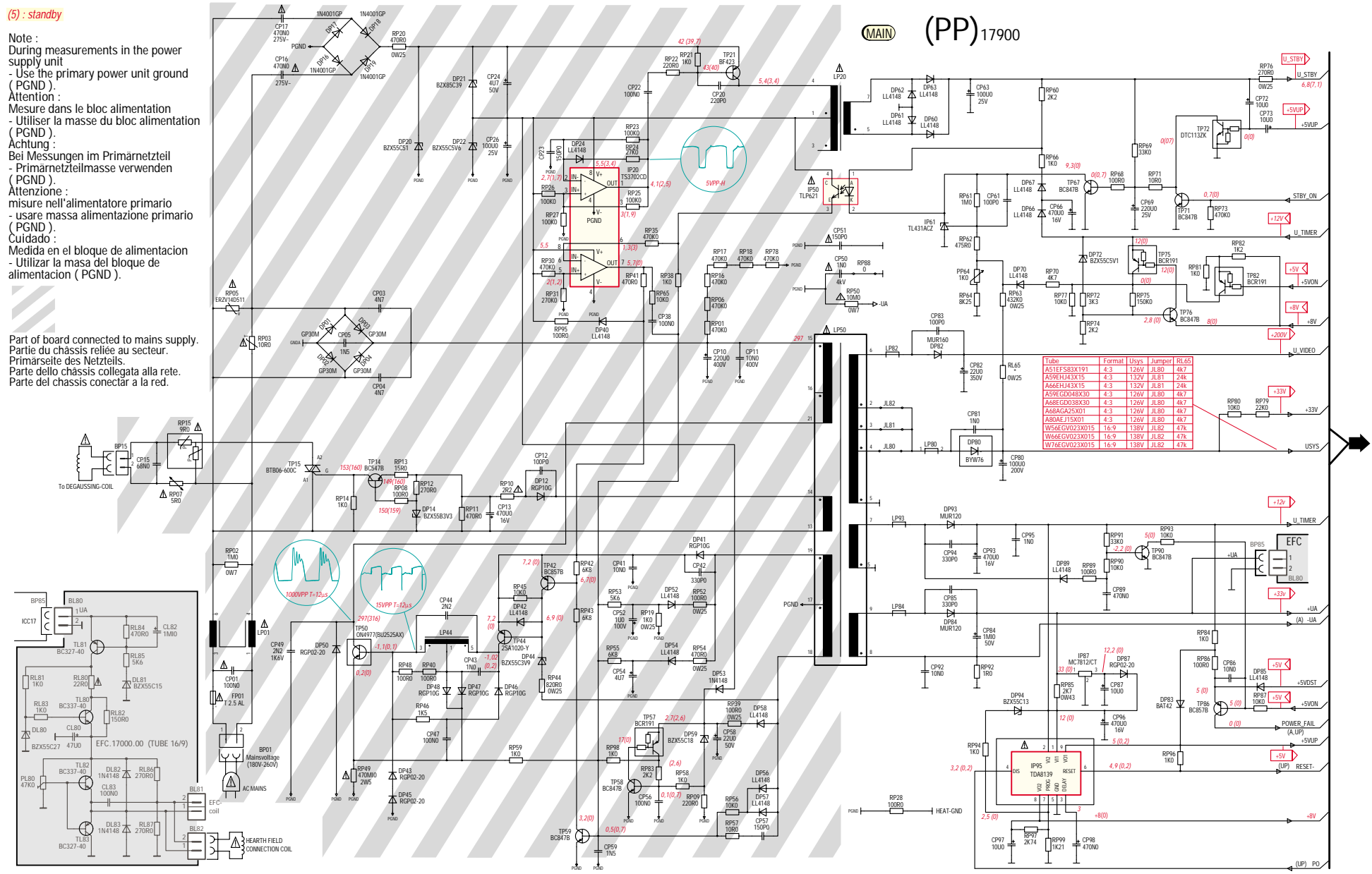
FLAG	SYMPTOM CODE	PART NO	REF. NO	SECTION/PCB	DEFECT CODE	REPAIR CODE	QTY
1	1 4 1 2	1 1 1 1 1 1 1 1 1	R 1 2 3 .	Y A 2 2 .	R	A	1
.	3 6 4 1	3 4 5 6 7 8 9 X X	1 1 1 . .	T D M . .	C	B	0

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN

(5) : standby

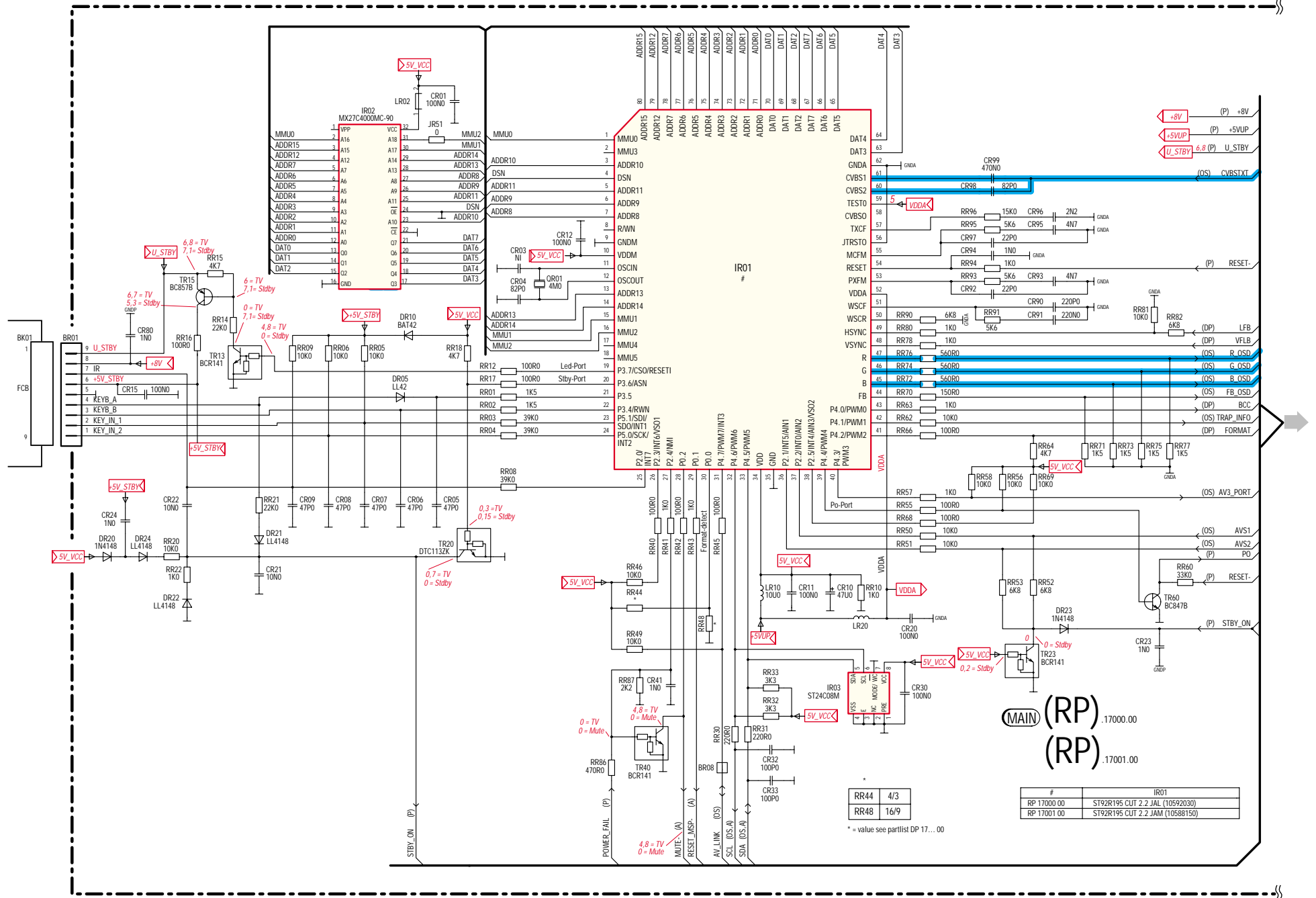
Note :
 During measurements in the power supply unit
 - Use the primary power unit ground (PGND).
 Attention :
 Mesure dans le bloc alimentation
 - Utiliser la masse du bloc alimentation (PGND).
 Achtung :
 Bei Messungen im Primärnetzteil
 - Primärnetzteilmasse verwenden (PGND).
 Attenzione :
 misura nell'alimentatore primario
 - usare massa alimentazione primario (PGND).
 Cuidado :
 Medida en el bloque de alimentacion
 - Utilizar la masa del bloque de alimentacion (PGND).

Part of board connected to mains supply.
 Partie du chassis reliée au secteur.
 Primärseite des Netzteils.
 Parte dello chassis collegata alla rete.
 Parte del chassis conectar a la red.

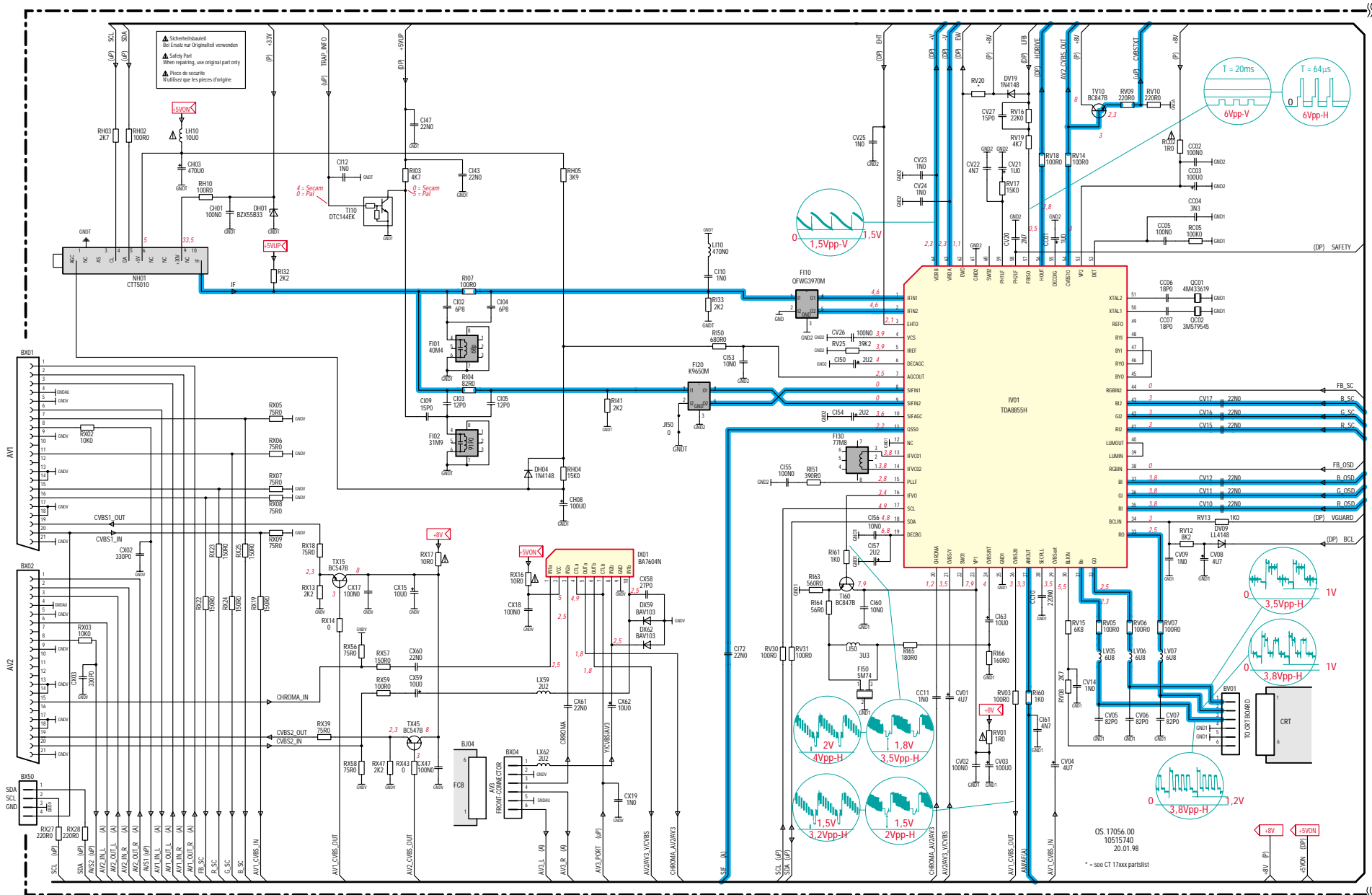


⚠ Use isolating mains transformer - Utiliser un transformateur isolateur du secteur - Einen Trenntrafo verwenden
 Utilizar un transformador aislador de red - Utilizzare un trasformatore per isolarvi dalla rete

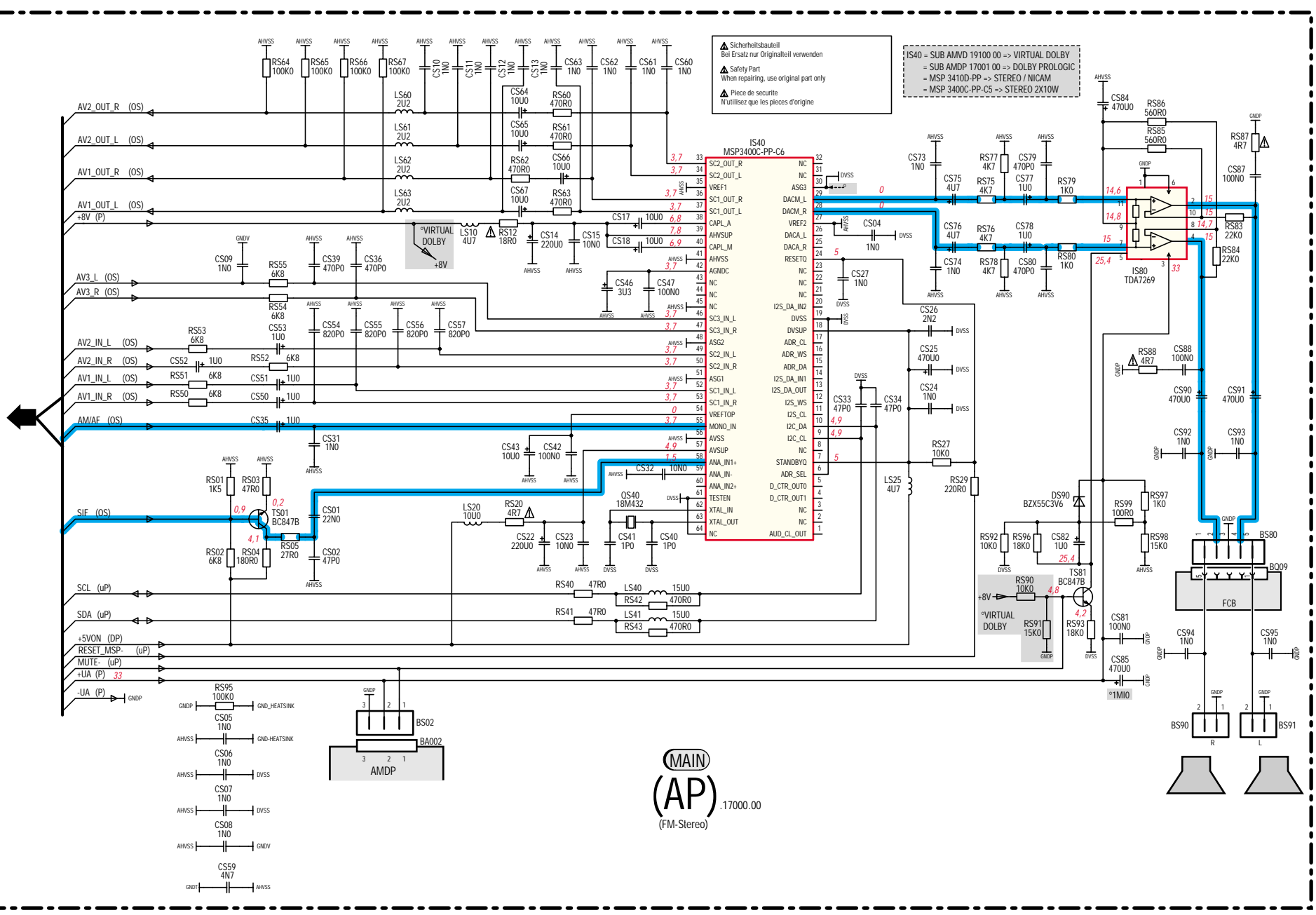
CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



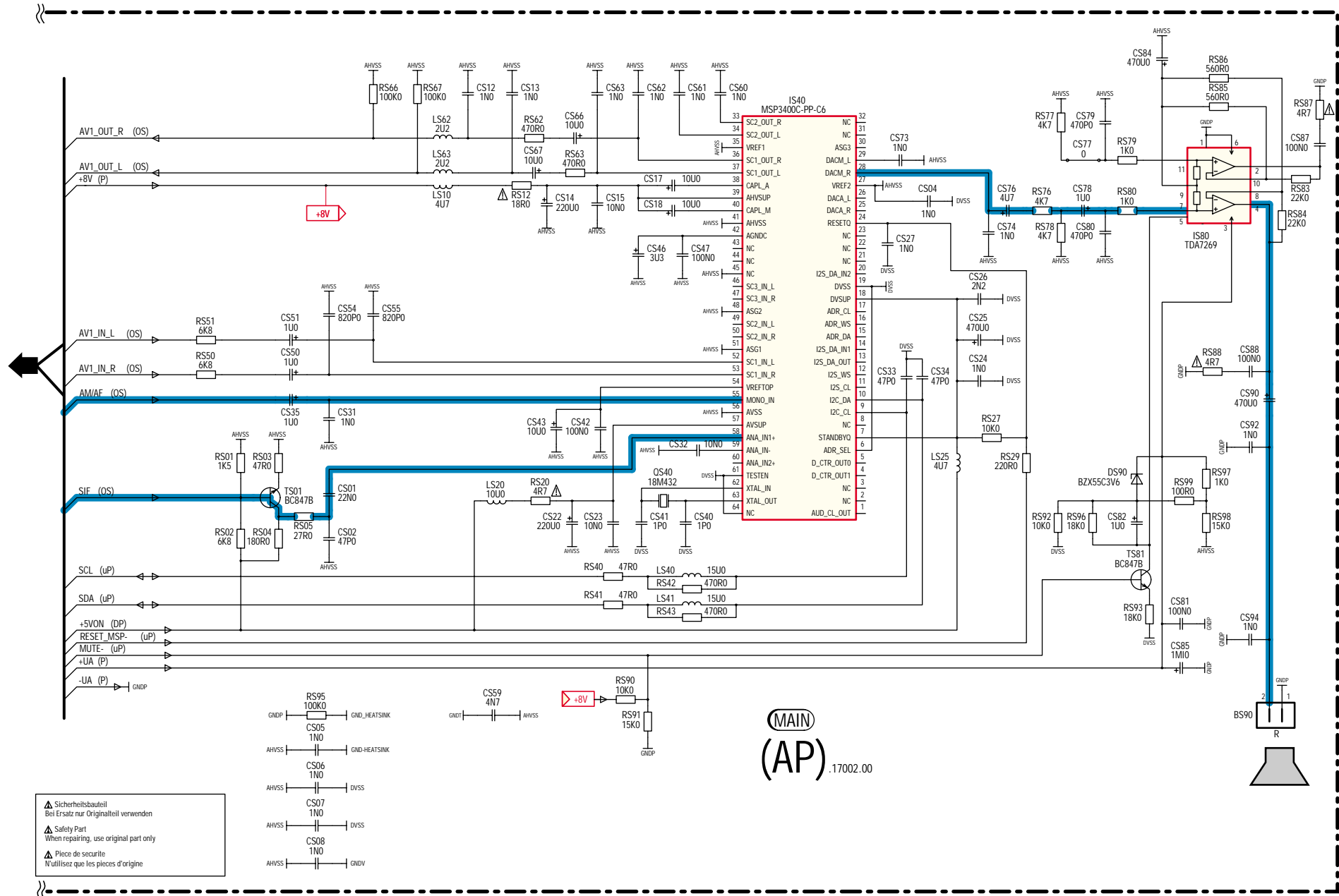
RF/VI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/VI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO
 SIGNALVERARBEITUNG - RF/VI/PRESA PERITEL/ELABORAZIONE VIDEO - RF/VI/EUROCONNECTOR/TRATAMENTO VIDEO



**AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR (STEREO)**



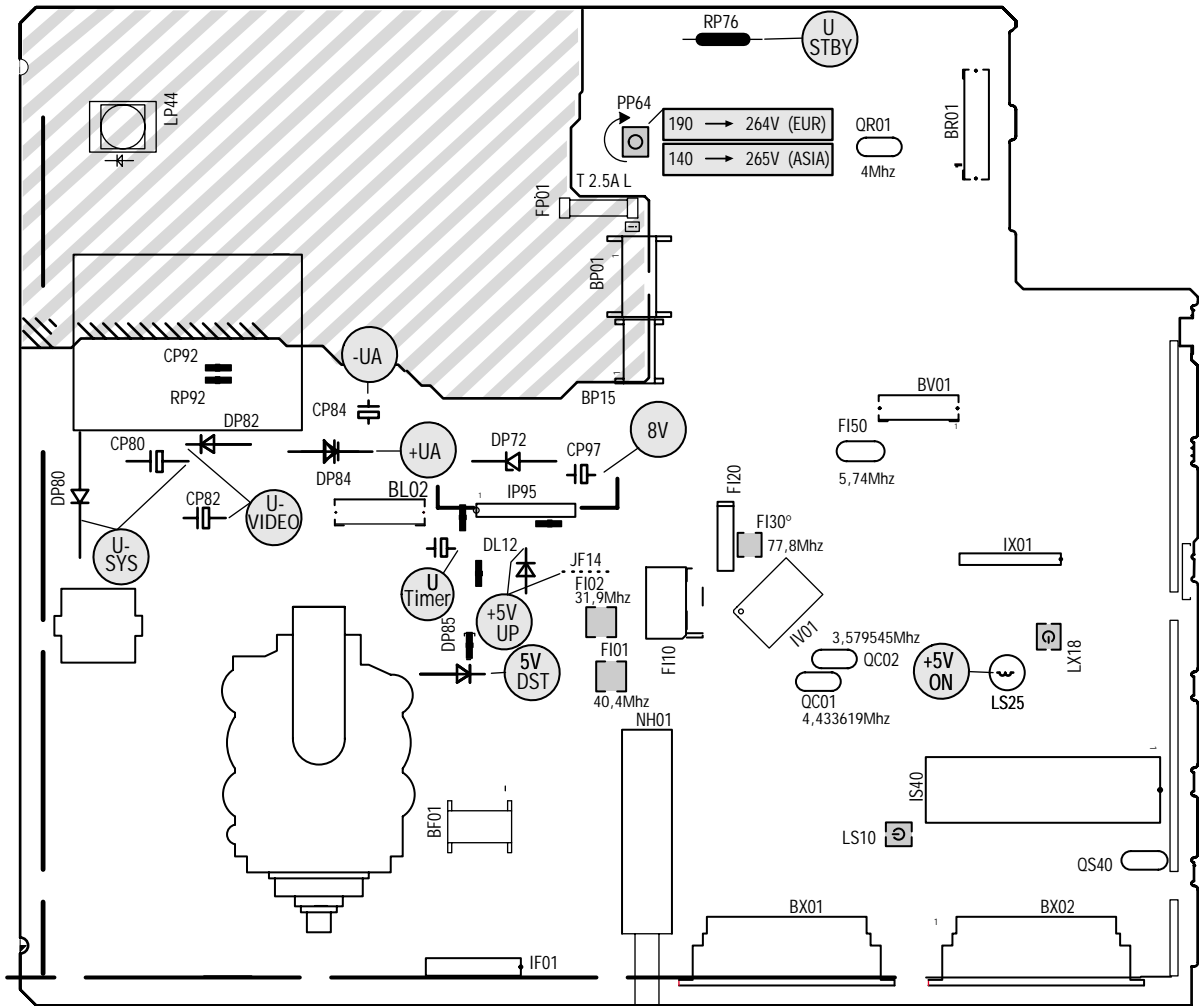
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR (MONO)



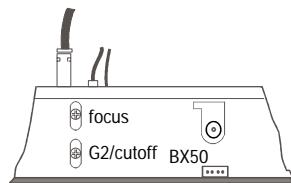
▲ Sicherheitsbauteil
 Bei Ersatz nur Originalteile verwenden
 ▲ Safety Part
 When repairing, use original part only
 ▲ Pièce de securite
 N'utilisez que les pieces d'origine

- RS95 100K0 GND_HEATSINK
- CS05 1N0 GND-HEATSINK
- AHVSS 1N0 GND-HEATSINK
- CS06 1N0 DVSS
- CS07 1N0 DVSS
- AHVSS 1N0 DVSS
- CS08 1N0 GNDV
- AHVSS 1N0 GNDV

**LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES -
SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO -
SITUACIÓN DE LOS AJUSTES**



° it is not necessary , to adjust F130 by after sales



Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primarseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.



Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un trasformatore per isolarvi dalla rete

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

U Sys	PP 64			<table border="1" style="width: 100%; font-size: 8px;"> <thead> <tr> <th>Tube</th> <th>Format</th> <th>Usys</th> <th>Jumper</th> <th>RL65</th> </tr> </thead> <tbody> <tr><td>A51EFS83X191</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr><td>A59EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24k</td></tr> <tr><td>A66EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24k</td></tr> <tr><td>A59EGD048X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr><td>A68EGD038X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr><td>A68AGA25X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr><td>A80AEJ15X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr><td>W56EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr> <tr><td>W66EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr> <tr><td>W76EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr> </tbody> </table>	Tube	Format	Usys	Jumper	RL65	A51EFS83X191	4:3	126V+/-0,5V	JL80	4k7	A59EHJ43X15	4:3	132V+/-0,5V	JL81	24k	A66EHJ43X15	4:3	132V+/-0,5V	JL81	24k	A59EGD048X30	4:3	126V+/-0,5V	JL80	4k7	A68EGD038X30	4:3	126V+/-0,5V	JL80	4k7	A68AGA25X01	4:3	126V+/-0,5V	JL80	4k7	A80AEJ15X01	4:3	126V+/-0,5V	JL80	4k7	W56EGV023X015	16:9	138V+/-0,5V	JL82	47k	W66EGV023X015	16:9	138V+/-0,5V	JL82	47k	W76EGV023X015	16:9	138V+/-0,5V	JL82	47k
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IF Alignment Alignement FI	trap 40,4Mhz FI 01	Switch set to standard BG Commuter le TV au standard BG		Adjust FI01 for minimum value at 40,4Mhz																																																							
	trap 31,9Mhz FI 02	IF Signal 40,4MHz (BG) 31,9MHz (BG)		Adjust FI20 for minimum value at 31,9Mhz																																																							
U G2 / cutoff	SCREEN	 AV (no Signal, black screen)																																																									
FOCUS	FOCUS LL05	Test pattern (standard values)		Sharp picture																																																							

I - ENTER/EXIT SERVICE MODE - ENTREE/SORTIE DU MODE SERVICE

1 ACCESSING THE SERVICE MODE

TV Control Panel Access

- Switch the TV into "Standby" mode by pressing the Standby button on the RCU.
- Switch "OFF" the mains supply to the TV and wait for the LED to extinguish.
- Whilst holding depressed the **PR** - and **VOL-** (8s), switch "ON" the mains supply to the TV.
- Once initialised, the **Main Service Menu** will appear on the screen of the TV.

```

Soft-Ver. V1.00-0 0080
Config.   A5- - - -N
Serial-No. 103465071

|> QUIT
  TUBE
  SETUP
  GEOMETRY
  VIDEO
  IF
  
```

Please Note:

In the service mode :

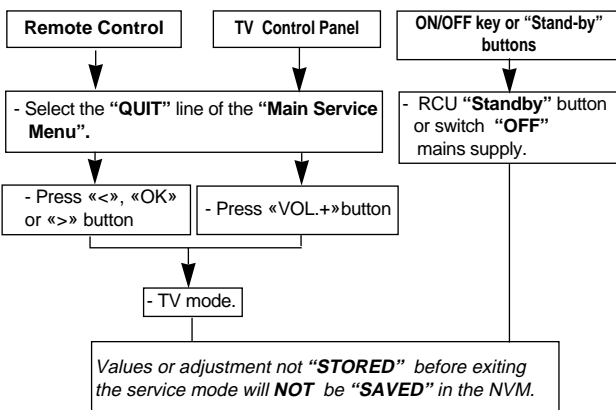
- The **CHILD LOCK** function is re-initialised. The **LOCK** function (PIN number) is ignored.
- All **Wake-up/Sleep timer settings** are **CLEARED**.
- **SCART socket pin 8 switching voltages** are ignored.
- **AV-Link**, **WSS Detection**, **EPG** and **TELETEXT** functions are disabled.
- **Automatic standby mode switching functions** (no signal conditions) are disabled.
- **Brightness**, **Colour** and **Contrast** are set to factory defaults.
- **Sharpness settings** are set to **MID** position.
- **Contrast Expand** is set to **LOW**.
- **Automatic INSTALL mode** is disabled.
- **FORMAT** and **ZOOM** are reset to factory defaults.

2 TEMPORARY EXIT FROM SERVICE MODE

- Press the "EXIT" button on the RCU.
- Pressing the "MENU" button on the RCU will activate the customer menus.

- The Service Menu can be re-entered by pressing the "BLUE" button on the RCU.

3 EXITING FROM SERVICE MODE



1 ACCES AU MODE SERVICE

Accès avec le clavier du téléviseur

- Commuter le téléviseur en position de veille avec la télécommande. Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- Tout en appuyant sur les touches **PR** - et **VOL -** , mettre le TV en service à l'aide de la touche **M/A**.
- Maintenir enfoncées les touches **PR** - et **VOL -** . (8s)
Le menu suivant apparaît.

```

Soft-Ver. V1.00-0 0080
Config.   A5- - - -N
Serial-No. 103465071

|> QUIT
  TUBE
  SETUP
  GEOMETRY
  VIDEO
  IF
  
```

Note :

En mode service:

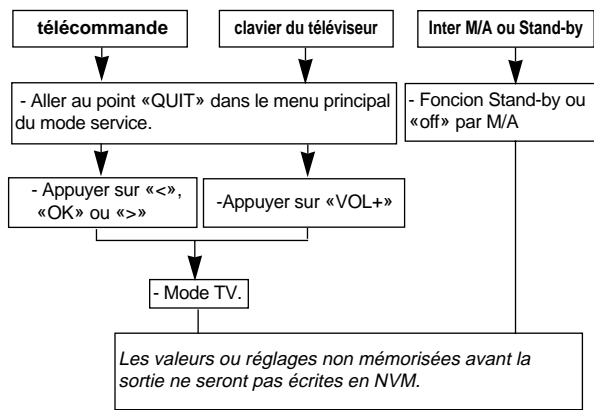
- Le verrouillage parental est effacé (réinitialisé) .
- La fonction de verrouillage (Pin number) est ignorée.
- La programmation des heures «*veille/matin*» est annulée.
- Possibilité de passer en mode service avec commutation lente active.
- **AV-Link** , la détection **WSS**, l'**EPG** et le **Vidéotexte** ne sont pas validés.
- La fonction de **stand-by** automatique en cas d'absence de signal d'antenne n'est pas validée.
- Les valeurs de réglages usine sont affectées au contraste, à la couleur et à la lumière.
- Le contour est appelé à sa valeur moyenne.
- L'expansion contraste est au niveau bas.
- Le mode *ambiance* «*Light sensor*» n'est pas valides.
- **Zoom** et **format** ignorées.

2 SORTIE TEMPORAIRE DU MODE SERVICE

- Utiliser la touche Exit de la télécommande.
- Le menu utilisateur peut être accessible via la touche «Menu».

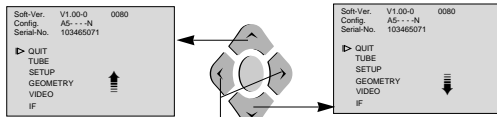
- Pour entrer à nouveau dans le mode service utiliser la touche bleue.

3 SORTIE DEFINITIVE DU MODE SERVICE



**II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE
FUNCTIONS WALLIN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO**

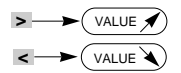
**1 REMOTE CONTROL - TELECOMMANDE - FERNBEDIENUNG
TELECOMANDO - MANDO A DISTANCIA**



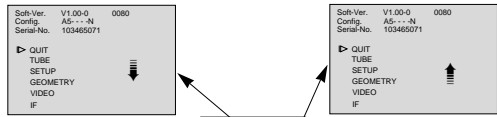
Navigation up

Navigation down

- Select option
 - Option anwählen
 - Selezionare l'opzione
 - Seleccionar opción
- "Change" value
- Wert "ändern"
- "Cambiare" valore
- "Cambiar" valor



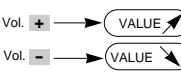
**2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES
FERNSEHGERÄTS - COMANDI DEL TELEVISORE -**



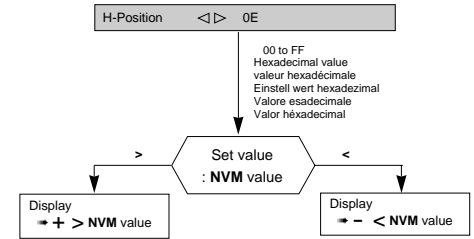
Navigation down

Navigation up

- Select option
 - Option anwählen
 - Selezionare l'opzione
 - Seleccionar opción
- "Change" value
- Wert "ändern"
- "Cambiare" valore
- "Cambiar" valor

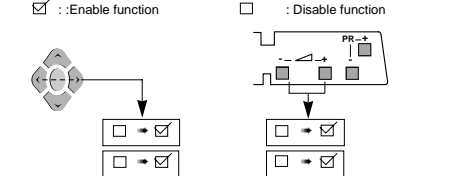


**3 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES
VALEURS - ANZEIGE DES EINSTELL WERTS
VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE -
VISUALIZACION DEL VALOR DE AJUSTE**



**4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS
EIN-UND AUSSCHALT FUNKTIONEN - FUNZIONI DI
COMMUTAZIONE - FUNCION COMMUTACION**

To enable a function check the box.
Pour valider une fonction cocher la case correspondante
Zum Implementieren einer Funktion das Kontrollkästchen aktivieren (ankreuzen)
Per implementare una funzione di verifica, (vistare) la casella
Para poner en fucionamiento una función verifique (señale) la casilla



**5 STORING VALUES IN MEMORY - MEMORISATION DES
VALEURS - SPEICHERN DER WERTE - MEMORIZZAEZ I
VALORI - VALORES ALMACENADOS EN LA MEMORIA**

After setting, the values are stored in NVM.
Après réglages les valeurs sont mémorisées en NVM.
Nach dem Einstellen werden die Werte im NVM gespeichert.
Dopo la regolazione i valori vengono memorizzati in NVM.
Después del ajuste, los valores son almacenados en NVM

The box becomes
During alignment, values are temporarily stored in RAM.
En cours d'alignement les valeurs sont mémorisées temporairement en RAM
Während des Abgleichs werden die Werte vorübergehend in RAM gespeichert
Durante l'allineamento i valori vengono memorizzati provvisoriamente sulla RAM
Durante el ajuste, los valores son almacenados temporalmente en RAM

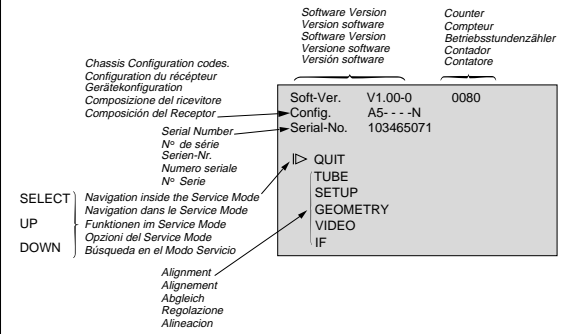
Store Copies RAM values into NVM
Copie la valeur RAM en NVM
Kopieren des Werts von RAM nach NVM
Copiare i valori RAM in NVM
Copiar valores RAM en NVM

Restore Copies all values from NVM into RAM.
Copie toutes les valeurs des données NVM en RAM
Kopiert alle NVM-Datenwerte in den RAM
Copiare tutti i valori da NVM sulla RAM
Copia todos los valores de NVM a RAM

ROM Default All the default values of a page in use are stored in RAM.
L'ensemble des valeurs par défaut d'une page courante est chargé en RAM.
Sämtliche Standardwerte der aktuellen Seite werden in RAM geladen
Tutti i valori di default di una pagina in uso vengono memorizzati sulla RAM
Todos los valores por defecto de la página en curso están almacenados en RAM.

**III - LITE-MENU FOR FIELD SERVICE MODE -
MENUS DU MODE SERVICE**

1 MAIN MENU - MENU PRINCIPAL



**TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION -
CONFIGURAZIONE DEL TV - CONFIGURACIÓN DEL TV**

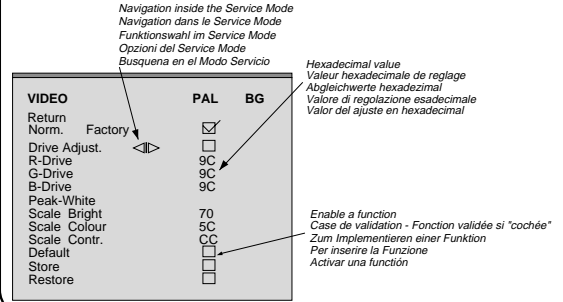
Config.	A1Z-DKC
Character 1 : Tube type : «A»= 4/3 , «W» =16/9	
Character 2 : Chassis type : «5» = 50Hz,	
Character 3 : Zoom available : «Z»=yes, «-»=not	
Character 4 : Ambient Sensor : «S»= detected, «-»= not	
Character 5 : Dolby : «D»=detected, «-»= not	
Character 6 : AV Link detected : «K»=IR link detected, «-»= not	
Character 7 : Chassis Variant : «N»= Nicam, «S»=Stereo	

Serial-NO.	A16-----
Character 1 : Factory : «A»= Angers , «C» =Celle, «T» =Tarancon	
Character 2 : Year : «G» = 1996, «H»= 1997 etc..	
Character 3 : Month, from : «1»=January to «C»=December	
Character 4-9 : Serial NO.	

**TIME COUNTER - COMPTEUR DE TEMPS - BETRIEBSSTUNDENZÄHLER -
CONTATORE - CONTADOR**

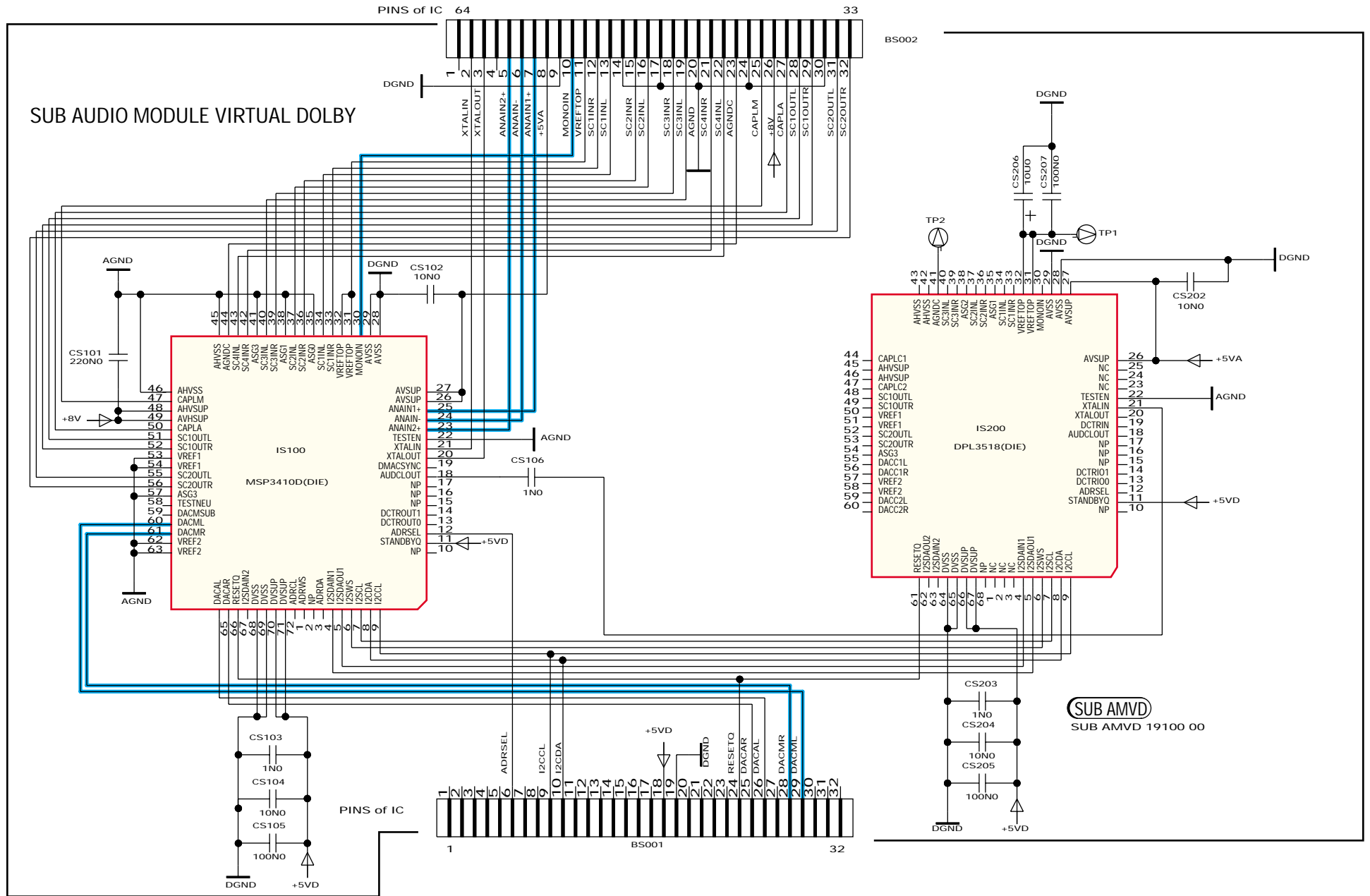
The counter indicates the TV's number of service hours. It counts from 0 to 65535 hours. The display is hexadecimal.
Le compteur de temps indique le nombre d'heures de service du TV. Il compte de 0 à 65535 heures. L'affichage est en hexadécimal.
Der Zähler zeigt an, wieviele Stunden der Fernseher in Betrieb ist. Die Anzeige ist hexadécimal.
Il contatore indica il numero di ore di servizio del TV. Può contatore da 0 a 65535. La visualizzazione è esadecimale.
El contador indica el número de horas de servicio de la TV. Cuenta de 0 a 65535 horas. El visualizador es hexadecimal.

2 SUBMENU - SOUS-MENU



WWW.RTV-HORVAT-DJ.HR

SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO



TECHNICAL INFORMATION

Chassis concerned : ICC17 (25"MP & 28"MP)

Symptom/ Problem observed :

Spare Parts List, component part number amendment.

Solution implemented :

To optimize the CRT heater supply voltage for the above mentioned tubes, both LL05(DST) and LB02 (coil) have been changed.

LL05 : Old Part No. 10546610 ---> **New Part No. 10600190**

LB02 : Old Part No. 10477930 ---> **New Part No. 25349470**

Comment :

Both components must be replaced at the same time.

TECHNICAL INFORMATION

Finished products / Chassis concerned :
All TV sets equipped with ICC17 chassis (CRT Board)

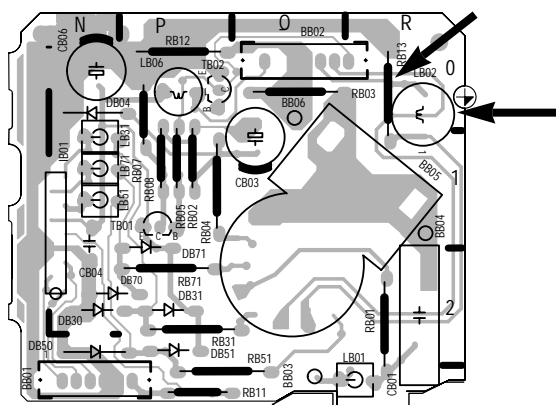
Subject : Protection of transistor TB02 against arcing

Symptom/ Problem observed :
 Transistor type number BF422 used in position TB02 found defective.

Cause :
 Arcing.

Solution implemented :

- Remove the resistor at location RB13.
- On the copper side of the CRT PCB, add an insulated wire link between pin 1 of inductor LB02 and pin 4 of the CRT socket (ground).



IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 3 1 5			R B 1 3	V P A	Y	T

You do not need to write anything in the white boxes.

TECHNICAL INFORMATION

Chassis concerned : ICC17

Symptom/ Problem observed :

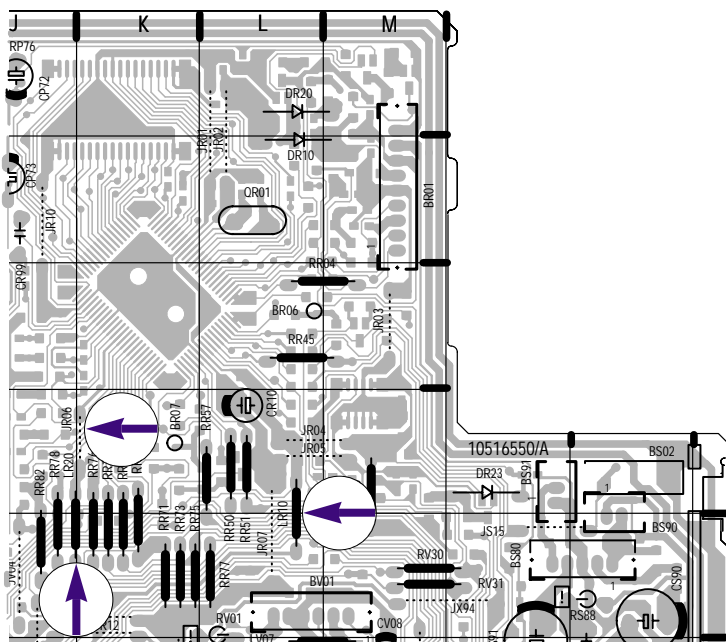
Moiré patterning visible on some channels.

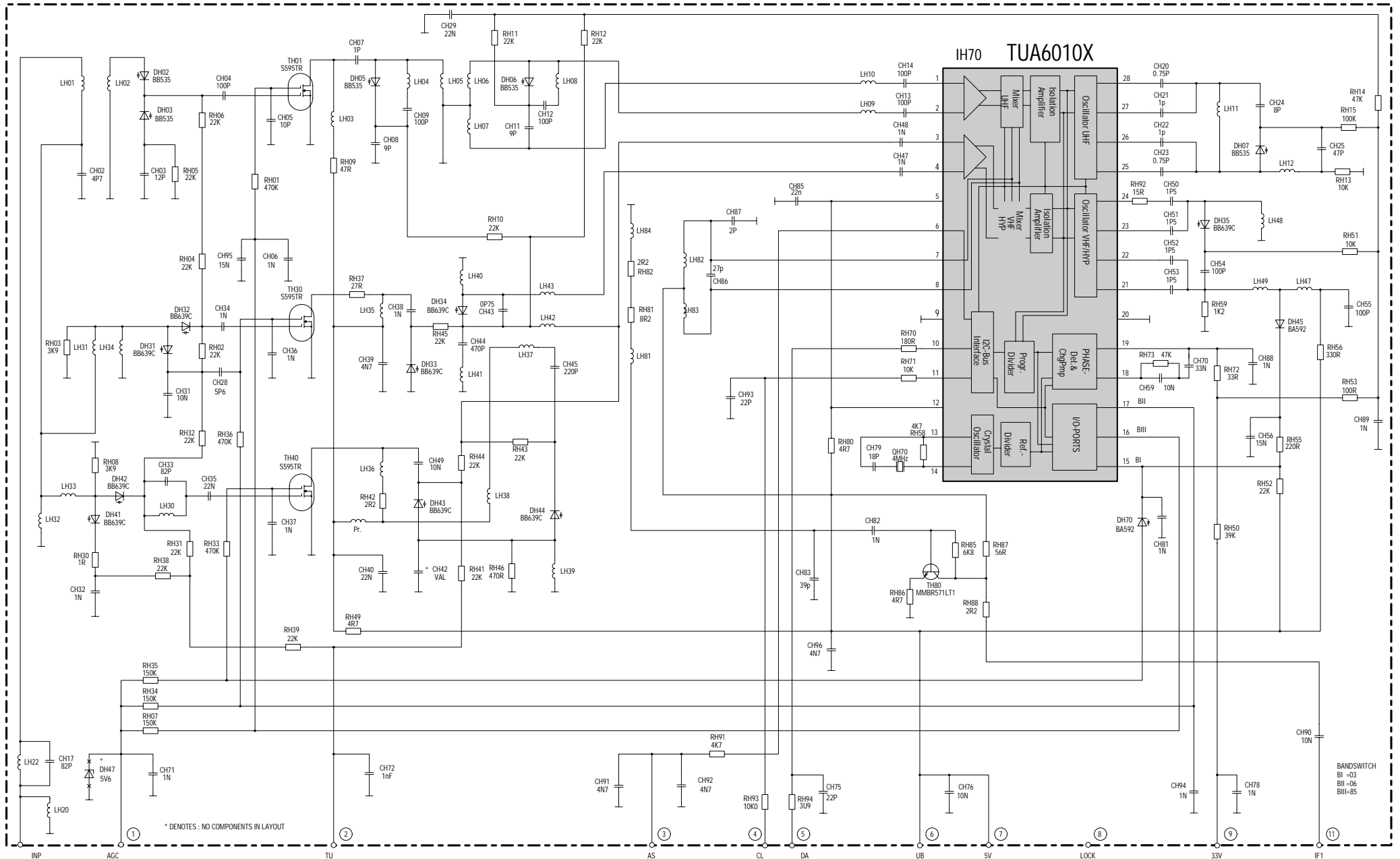
Cause :

High frequency cross modulation.

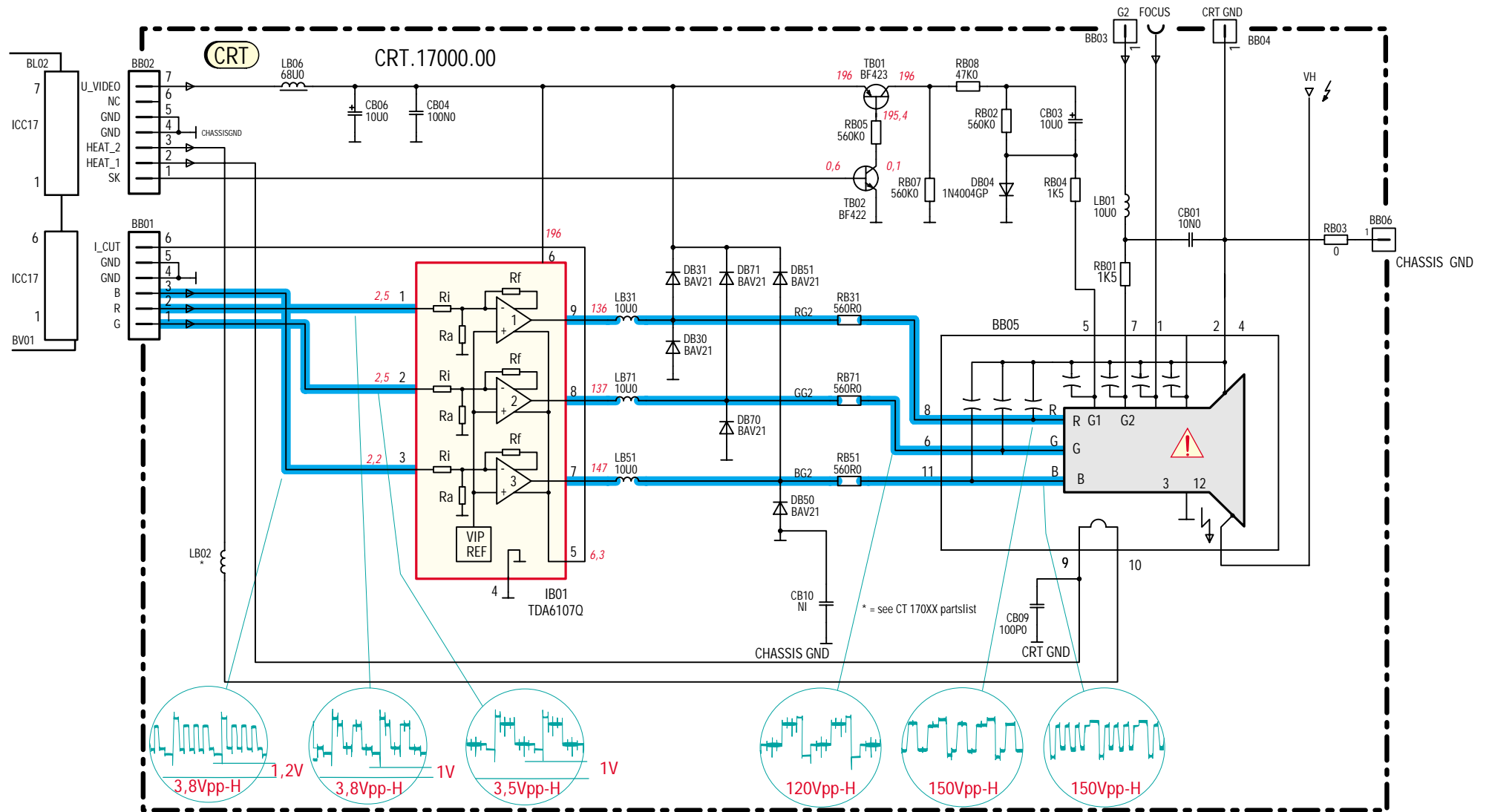
Solution implemented

- Remove the jumper link at location JR06.
- Remove the inductor at location LR20.
- Replace LR10 10 μ H inductor with a jumper link.





VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO



M a n u e l

d' u t i l i s a t i o n

B e d i e n u n g s -

a n l e i t u n g

M a n u a l e d i

u t i l i z z a z i o n e

U s e r

m a n u a l

Ο δ η γ ο ς

Χ ρ η σ ε ω ς

2 1 D U 2 1 C

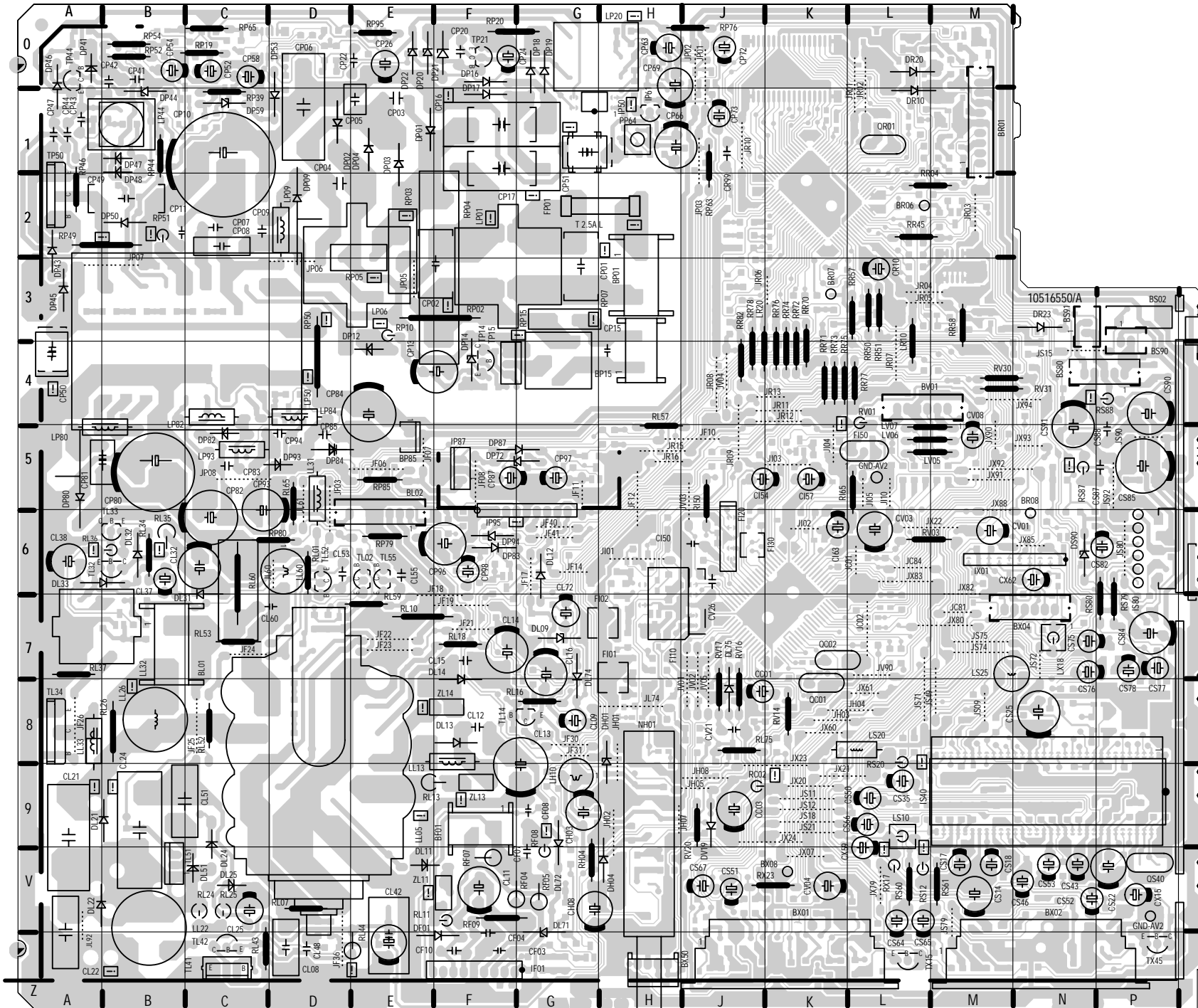
2 1 M T 2 1 C

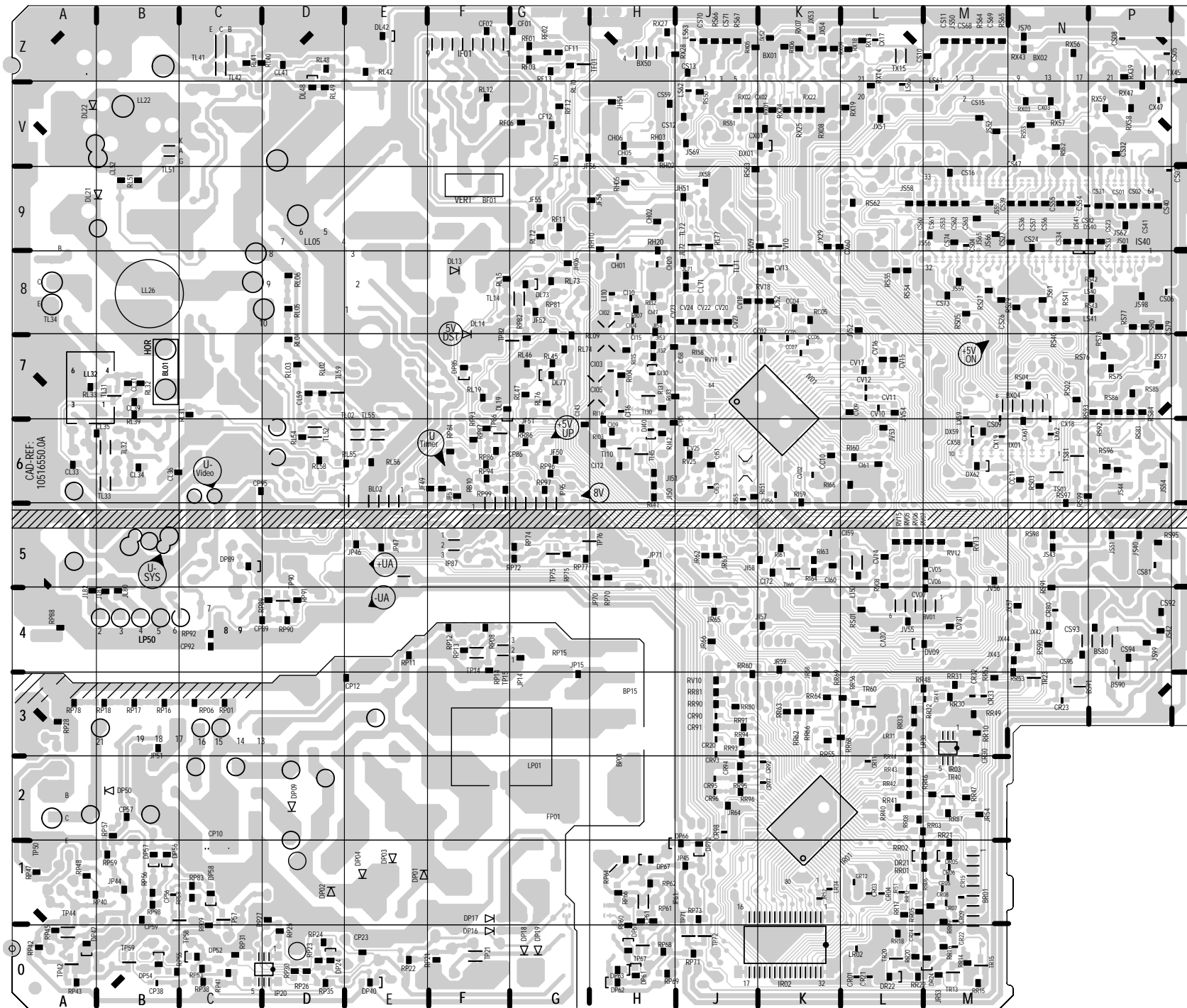
2 5 D G 2 1 C

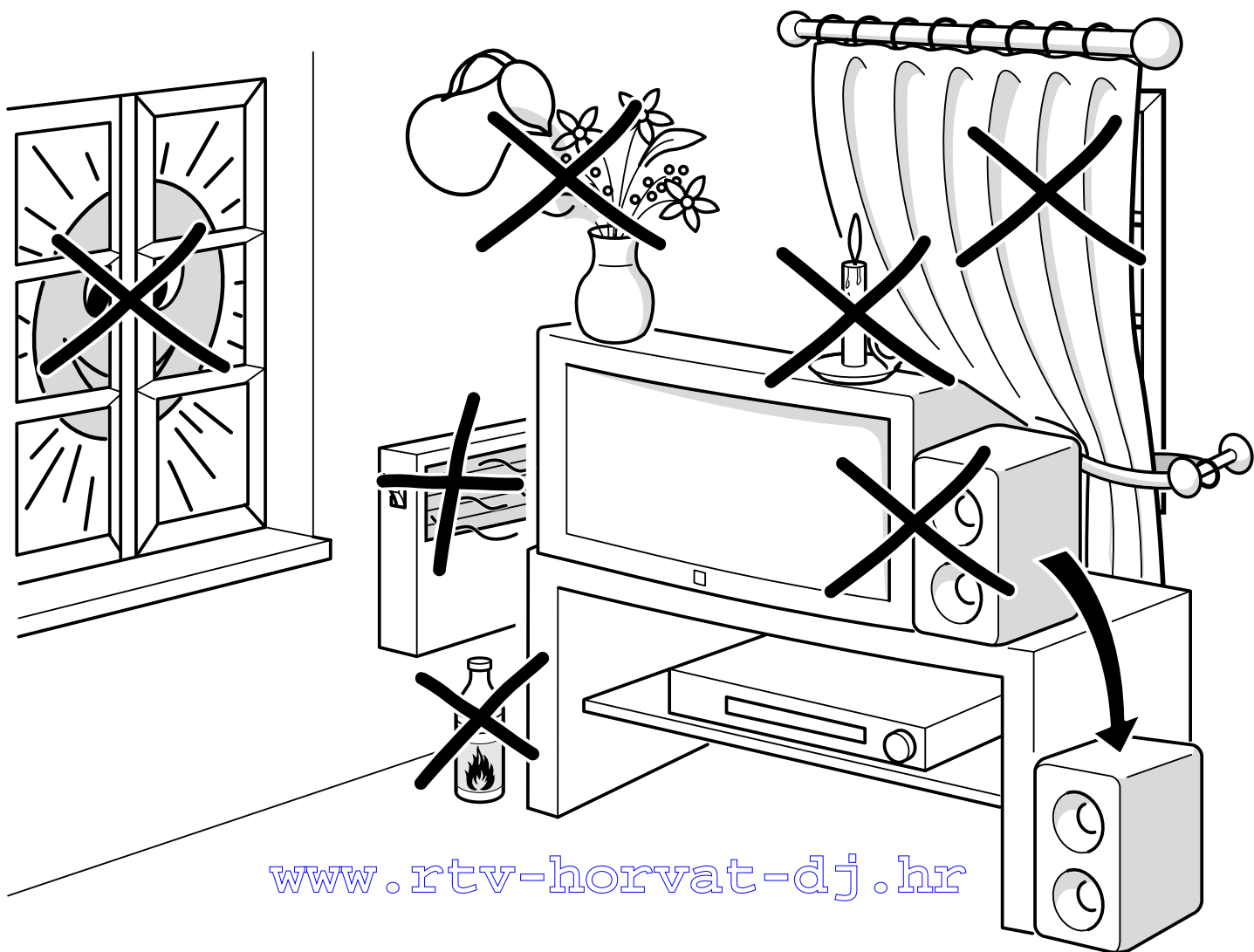
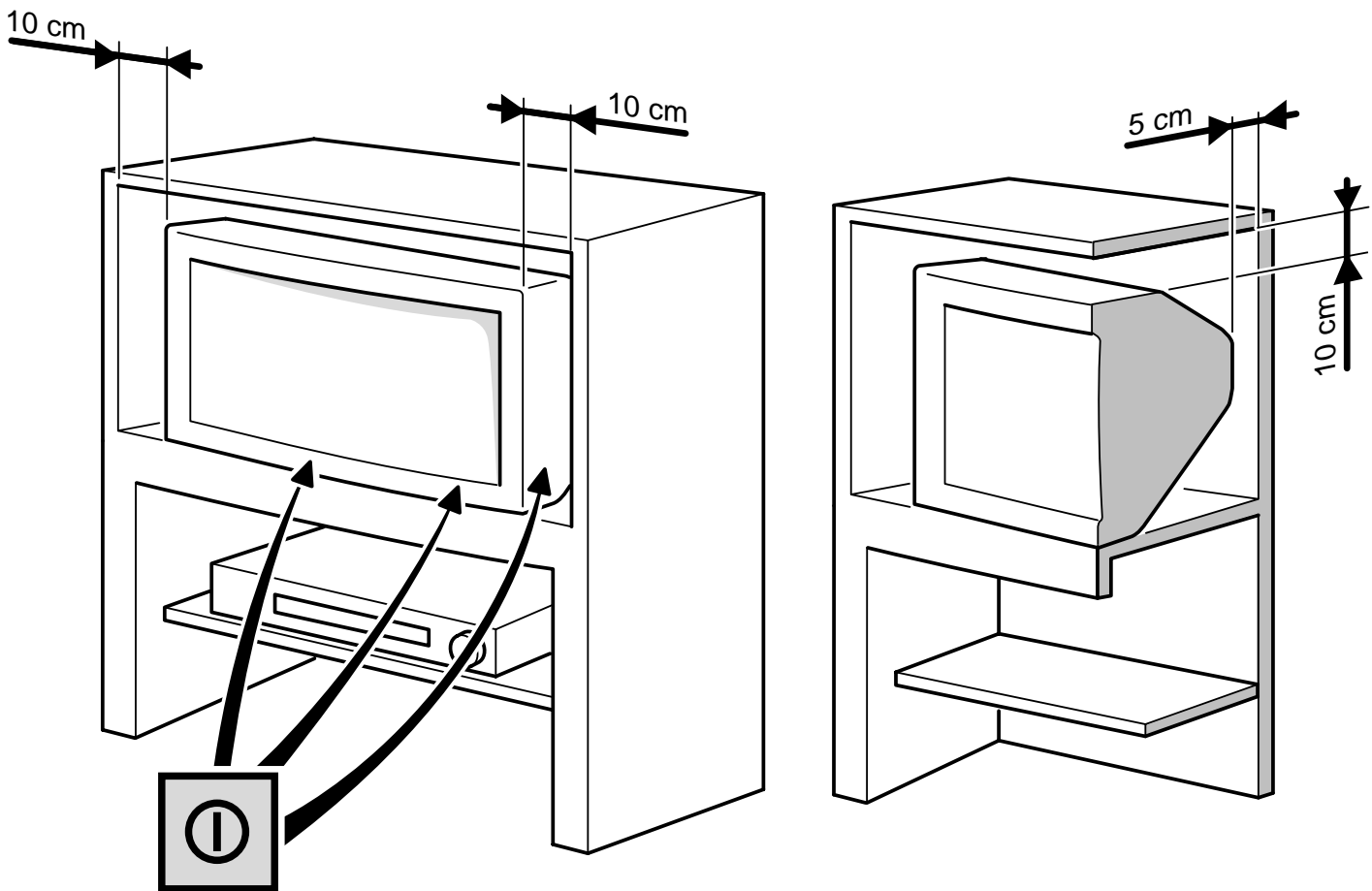
2 8 D G 2 1 C

2 9 D L 2 1 C

MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES







About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation. A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

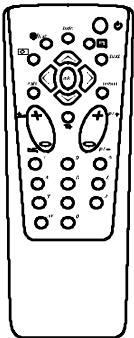
Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.

This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.

Contents

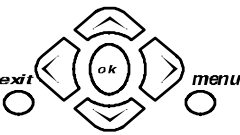
GB



Using the remote control and fitting the batteries.

Page 4

How to call up a menu and how to select a function, a setting or an option.



Page 5

Installation

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About safety	1
About cleaning	1
About degaussing	1
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Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

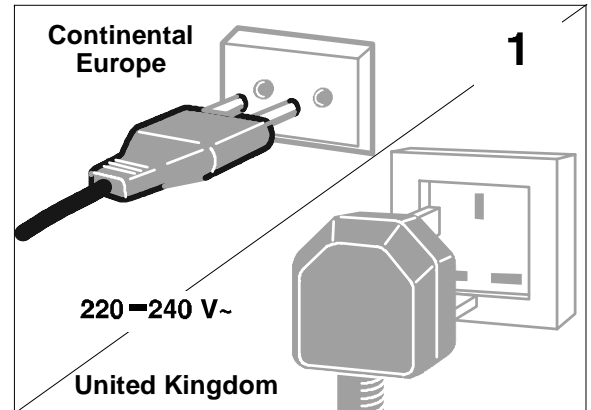
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

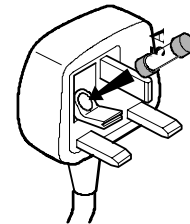
The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

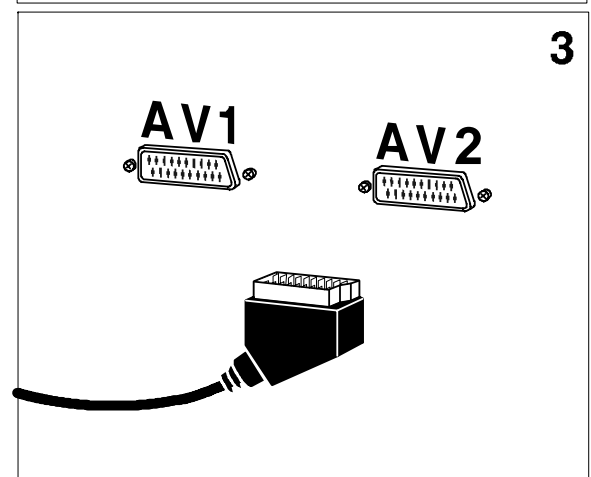
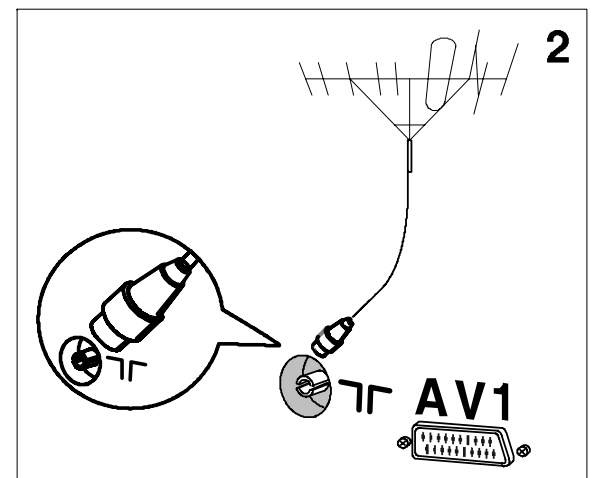
When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.



The plug is fitted with a fuse which protects your television. If your television does not work, the fuse may be blown. In this case, replace it with an identical 5 Amp ASTA or Ir BSI (BS 1362) certified fuse.



Note: the mains lead of your television is fitted with a moulded plug. This lead contains all the safety equipment, so you are advised when replacing it not to use a non-specific commercially-available model.



Remote control

Display of channel, time, sound (yellow button) (and zoom for models with zoom)

This key is active only when using the Teletext (blue key)

Call up programme list (green button)

Standby

Reminder of picture preferences (red button)

Call up Teletext / Toptext / Fastext function (purple button)

Confirm an action or validate a menu option

Right/Left Selection within menus and Zoom Function (for models with this function)

To leave a menu or Teletext

Go to adjustment function MENU

Volume adjustment

Move Up/Down in menus

Sound mute

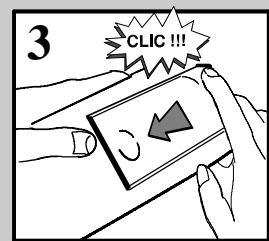
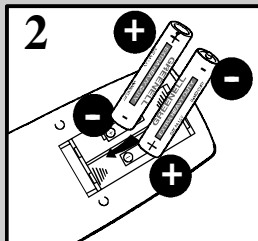
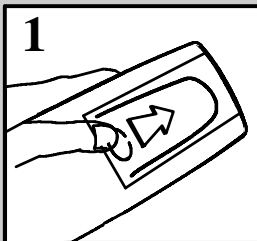
Change programme

Selecting appliances connected to the television (AV1, AV2 ...)

Go to programmes and enter numerical values in menus

The red, green, yellow and blue keys are also used for the Teletext.

For programme numbers higher than 10, press the 0 key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.

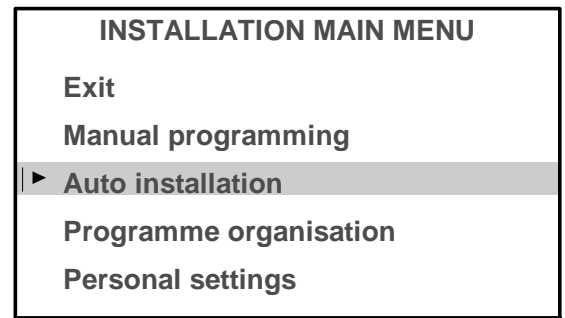


Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

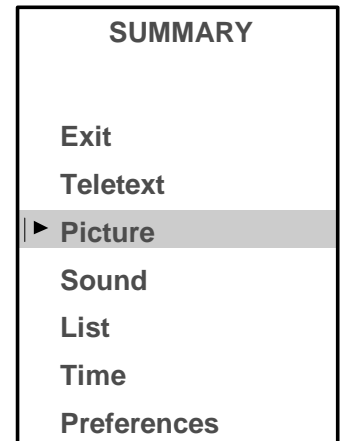
If there is no menu displayed on the screen, press and hold the **menu** key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.



GB

Calling up the Settings summary

Press and release the **menu** key on the remote control to display the list of menus available for using your television functions or adjusting your television



Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the **ok** key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

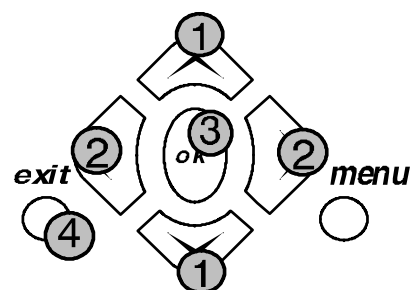
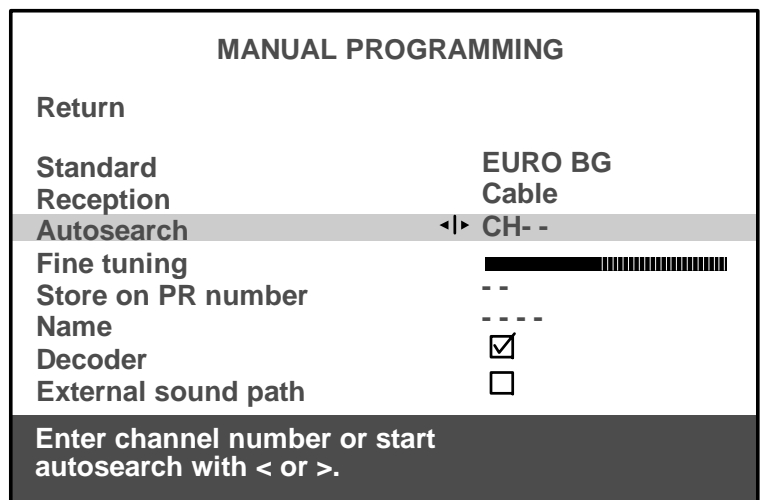
Use the **Left/Right** keys ② to:

- Increase or decrease a value:
for example:
Fine tuning ◀|▶
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶

You can use the **ok** ③ key to:

- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the **exit** ④ key to exit a menu.



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the **pr -** key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using **ok**.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using **ok**.
5. A welcome message is displayed.
6. Run the automatic installation sequence using **ok**.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes. A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press **ok** and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing **exit** then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.

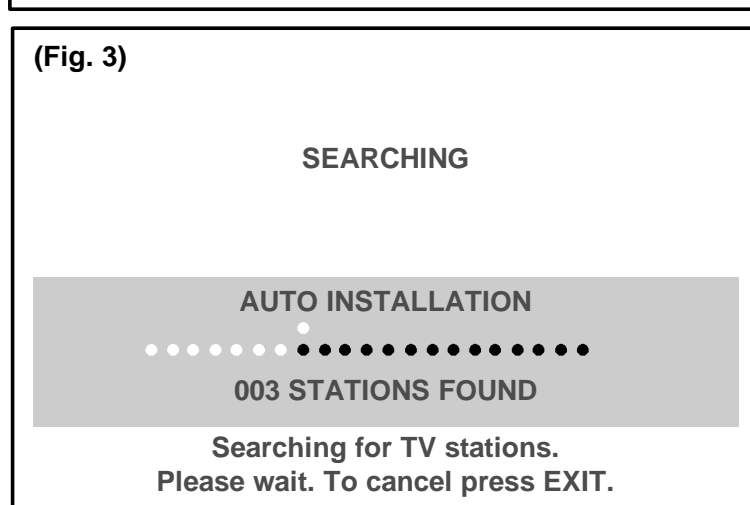
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

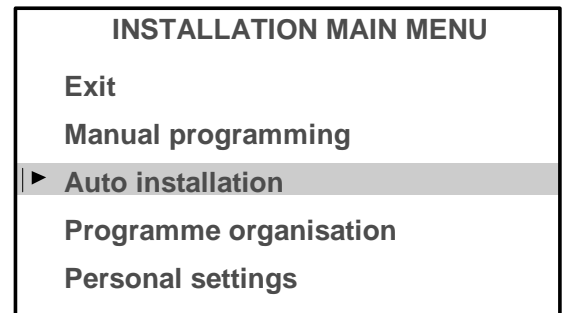
The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

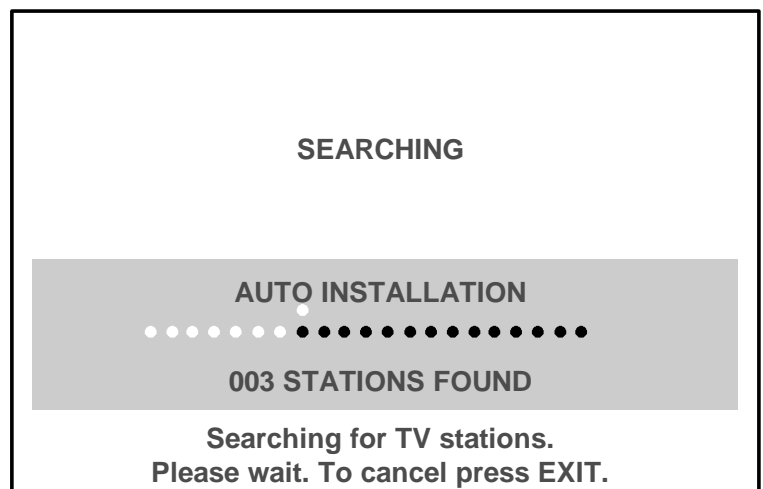
1. Press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using **ok**.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the **ok** key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing **exit**, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION** menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
▶ Programme organisation
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program..**
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program..**
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION		10	MTV
		11	FR2
		12	TF1
		13	EURO
		14	CH40
		15	CC01
		16	ARTE
		17	CART
		18	----
		19	ARD
Return			
Select program.	◀▶ 13		
Swap with PR.	--		
Change pr. name	EURO		
Delete program.	13		
Select programme number using PR-/PR+ or </> or 0 to 9 keys.			

Select the line marked **Return** to return to the previous menu.

Manual programming

The manual installation function is useful if some programmes have not been installed even after AUTOMATIC INSTALLATION.

1. Press and hold **menu**, the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Manual programming**.
3. Display the menu using **ok**.
4. Now continue by following the messages at the bottom of the screen. For further details, read the information below.

Standard :

Select the standard using **Left/Right** keys that corresponds to your country from the list of standards.

The number of standards proposed will differ from one model to another.

France	for France and Luxemburg
DKK'	eg. for Eastern Europe and the Middle-East
I	for the United Kingdom and Ireland
Euro BG	for Western Europe

Reception :

Your television can pick up channels either via an aerial (RF channels) or via a cable network. Certain cable networks use the same frequencies as the RF channels. If this is the case, you must select **Aerial** instead of **Cable**.

Autosearch :

Enter the programme number if you know it. If not, search using the **Left/Right** keys. Your television will stop at the first channel it tunes into. If you wish to memorize it, go to the line marked **Store on PR number**. If not, resume the search using the **Left/Right** keys.

Fine tuning :

You can use this to improve the picture if the transmitter frequency is out of adjustment. Use the **Left/Right** keys to obtain the best possible picture and sound.

Store on PR number :

Enter the programme number you wish to give the channel (e.g.: 01 for BBC1). Memorise using **ok**.

Name :

If the station has been identified by the transmitter, its name will be inscribed automatically. You can change the proposed name or enter it if it has not already been identified. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the character you desire.

Decoder :

Use the **Left/Right** keys to tick the box if the channel is coded and if a decoder is connected to the AV1 jack.

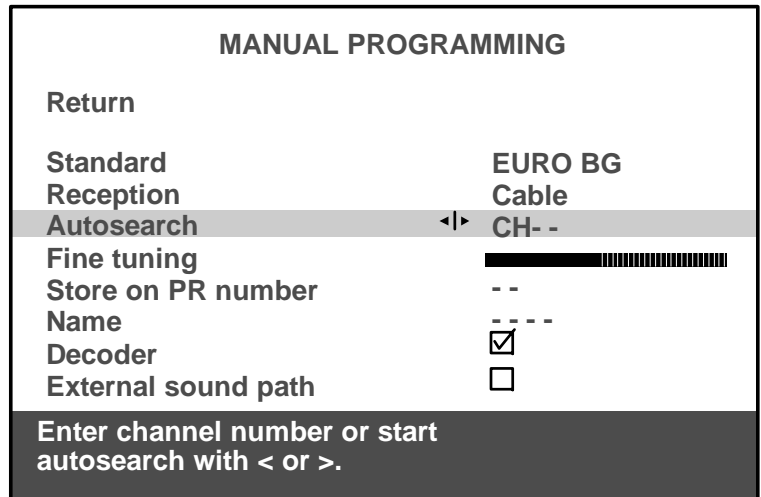
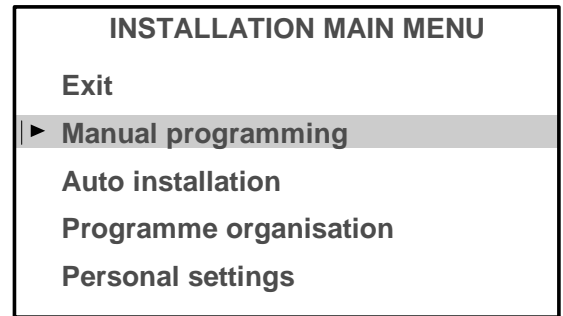
External sound path :

Switch on your decoder. If the sound is coded or if you have no sound, activate or deactivate the box as required using the **Left/Right** keys.



*Once you have made all the adjustments you wish to a programme, go to **Store on PR number** and press **ok** to memorise these. Then move on to the next channel.*

Once you have completed your Manual Programming, exit the menu using **exit**.



Select the line marked **Return** to return to the previous

Personal settings

1. Press and hold the **menu** key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the **info** key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using **exit**.

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
Programme organisation
▶ Personal settings

PERSONAL SETTINGS

Return
Menu language English
Country UK
Auto volume level
AV1 name VCR
AV2 name ----
AV3 name CAMC

Prog. to be used for reference time ◀▶ 06 13:15


Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the **menu** key on the remote control. Select **Picture**. Validate using **OK**. The **PICTURE** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Brightness, Colour, Contrast, Sharpness:

Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).


Exit the menu using **exit**.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.

Sound Settings

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Sound**. Validate using **ok**. The **SOUND** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.



Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the **Left/Right** keys.

The choices available to you depend on your television model and the type of sound. **Magic** and **Dolby Virtual** modes are only available in stereo on TV's equipped with Virtual Dolby Surround.



Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.


Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :

 This line appears only if you have selected **Dolby Virtual** on the **Sound mode** line.

Select this line and adjust the surround effect to suit you.

Exit the menu using **exit**.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode	Effect
Normal :	reproduces the original sound (mono or stereo).
Wide :	gives a stereo effect on mono sounds.
Stereo wide :	accentuates the stereo effect.
Magic :	accentuates the stereo effects and adds echo.
Dolby Virtual :	Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

"Dolby", "Pro Logic" and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the *menu* key on the remote control. Select the line marked **Time**. Validate using *ok*. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.


Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using *exit*.

Set the television to standby using the  key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	<input checked="" type="checkbox"/>
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	<input type="checkbox"/>

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control
or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.

- Validate using **ok**.

- Exit the menu using **exit**.

LIST	
Exit	
▶ 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE TV
06	M6
07	CNN
08	PREM
09	EURO
Page -/+ ◀/▶	
Programme: 0 - 9	

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume +/- keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information


Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fastext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select "- - -" using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fastext functions:

If the Teletext you receive is Fastext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the **text** key.

To exit Teletext, press **exit** or **text**.

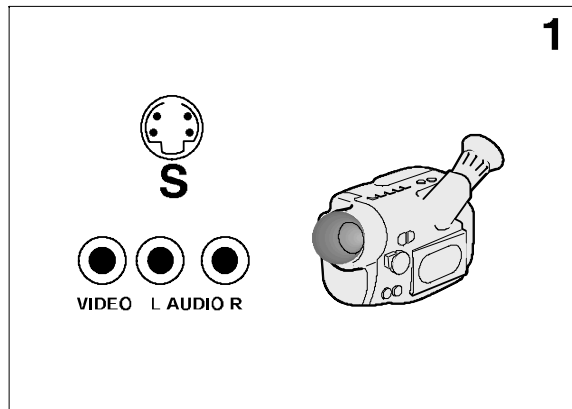
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



*To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.*

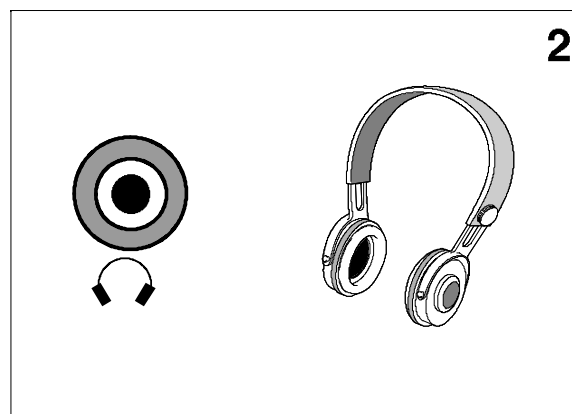


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.




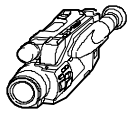
* on models equipped with this function

Other Possibilities

Copying a cassette:

Plug the VCR **you wish to record to** into the SCART socket AV2.

Plug the appliance **you wish to copy from** as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
 VCR	Peripheral AV1	VCR ou Camcorder	AV2	AV1
 Camcorder	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.



SABA

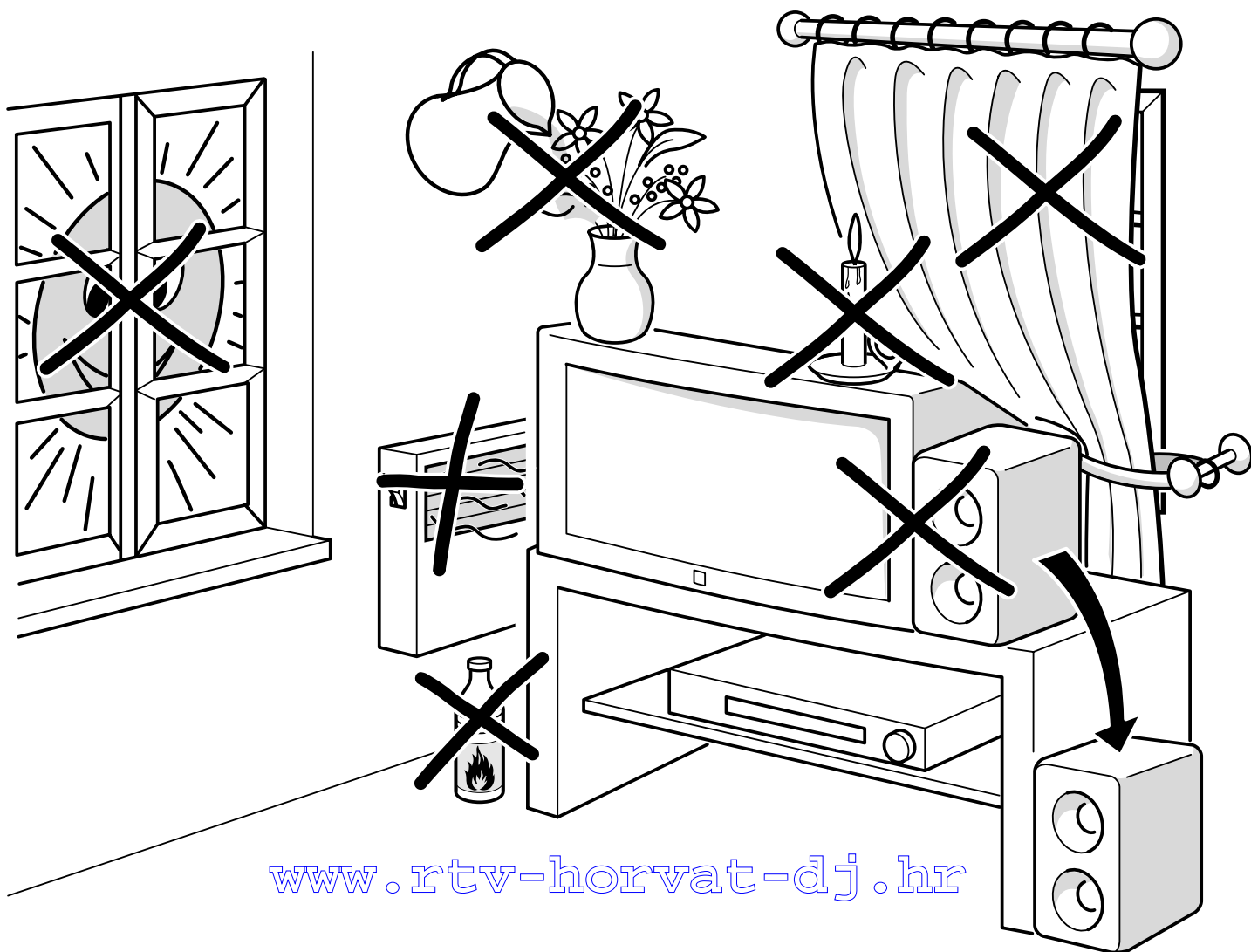
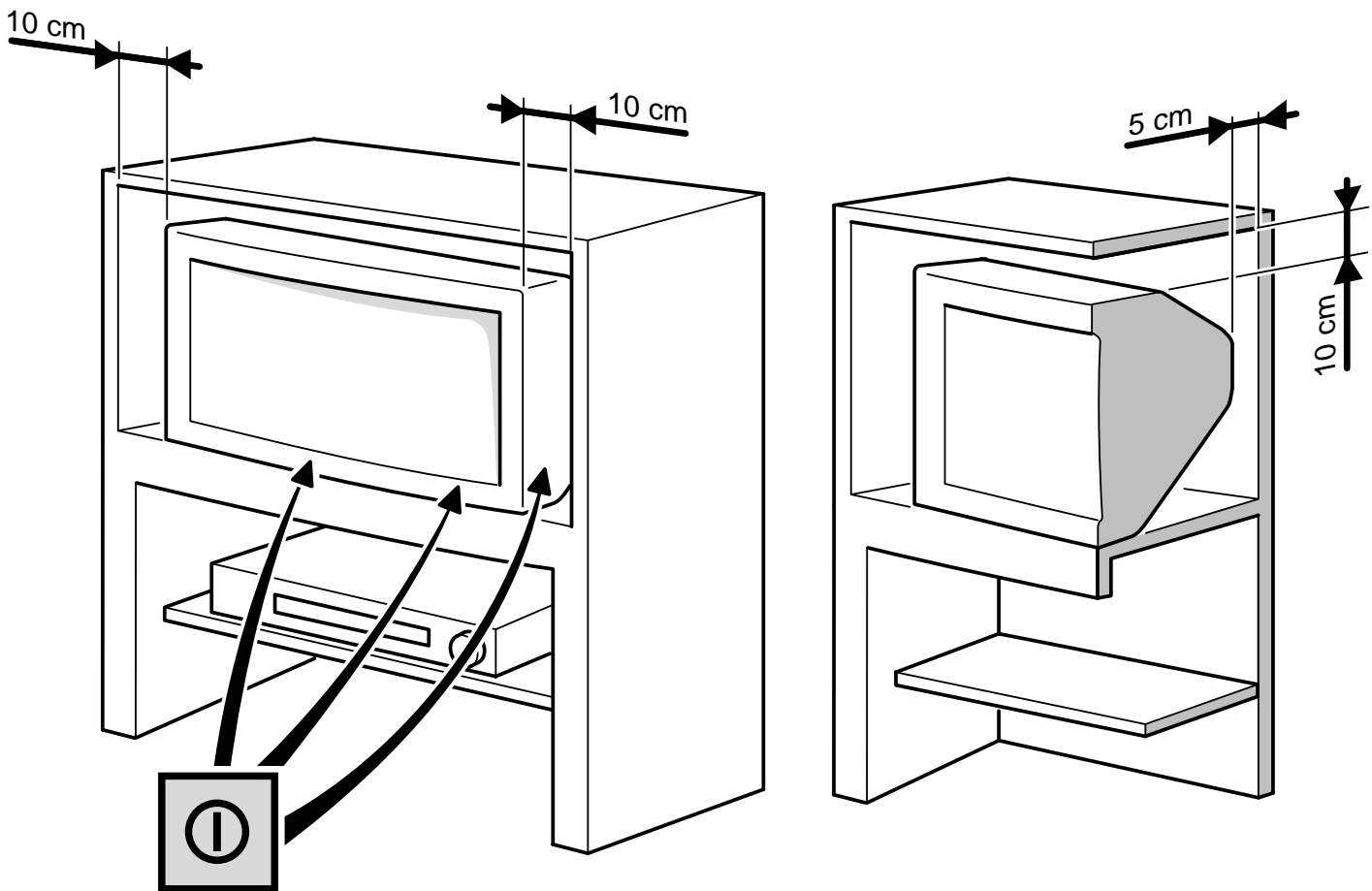
MANUEL D'UTILISATION - BEDIENUNGSANLEITUNG - MANUALE DI UTILIZZAZIONE - USER MANUAL

MANUAL DE UTILIZACIÓN - GEBRUIKSAANWIJZING - BRUKSANGVISNING

BETJENINGSVEJLEDNING - FOLHETO DE UTILIZAÇÃO

www.rtv-horvat-dj.hr

M 8521E / T 7021E / W 7021E



About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation. A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

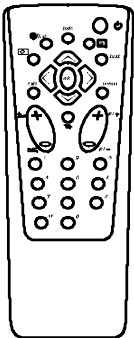
Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.

This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.

Contents

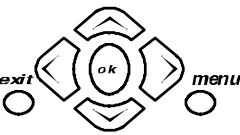
GB



Using the remote control and fitting the batteries.

Page 4

How to call up a menu and how to select a function, a setting or an option.



Page 5

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Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

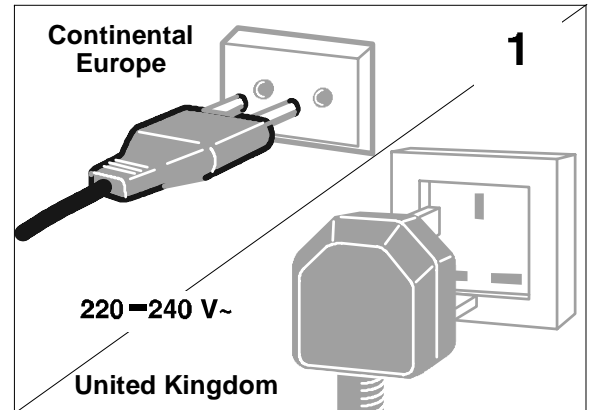
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

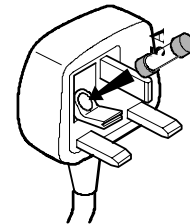
The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

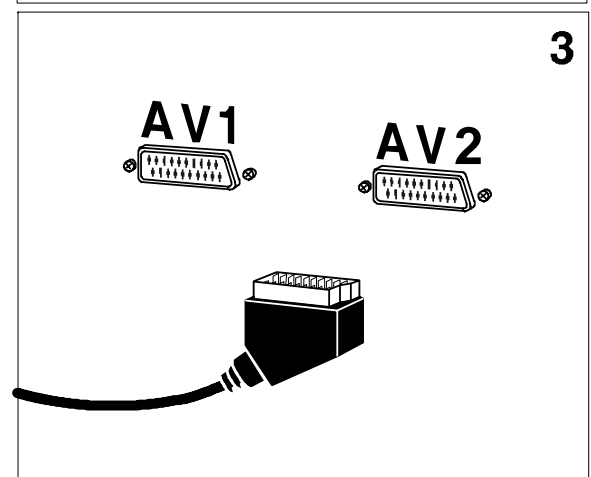
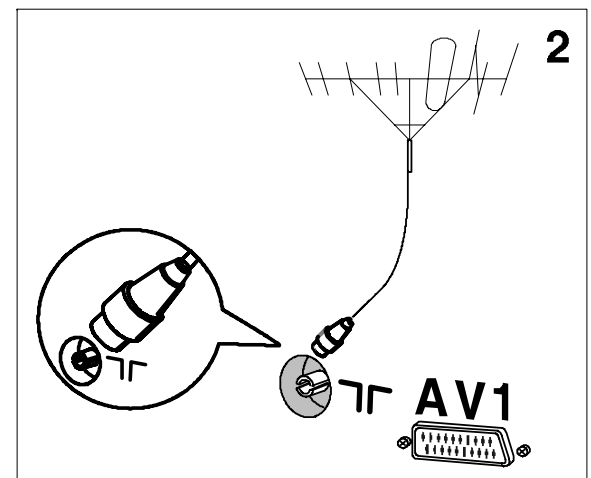
When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.



The plug is fitted with a fuse which protects your television. If your television does not work, the fuse may be blown. In this case, replace it with an identical 5 Amp ASTA or Ir BSI (BS 1362) certified fuse.



Note: the mains lead of your television is fitted with a moulded plug. This lead contains all the safety equipment, so you are advised when replacing it not to use a non-specific commercially-available model.



GB

Remote control

Display of channel, time, sound (yellow button) (and zoom for models with zoom)

This key is active only when using the Teletext (blue key)

Call up programme list (green button)

Standby

Reminder of picture preferences (red button)

Call up Teletext / Toptext / Fastext function (purple button)

Confirm an action or validate a menu option

Right/Left Selection within menus and Zoom Function (for models with this function)

To leave a menu or Teletext

Go to adjustment function MENU

Volume adjustment

Move Up/Down in menus

Sound mute

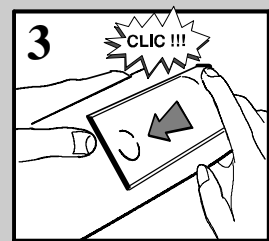
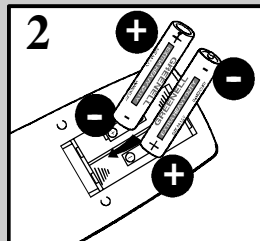
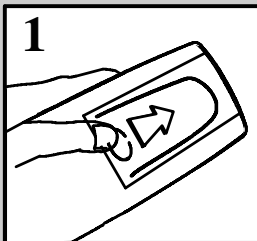
Change programme

Selecting appliances connected to the television (AV1, AV2 ...)

Go to programmes and enter numerical values in menus

The red, green, yellow and blue keys are also used for the Teletext.

For programme numbers higher than 10, press the 0 key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.

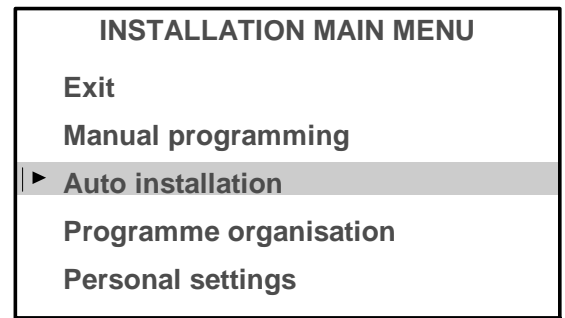


Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

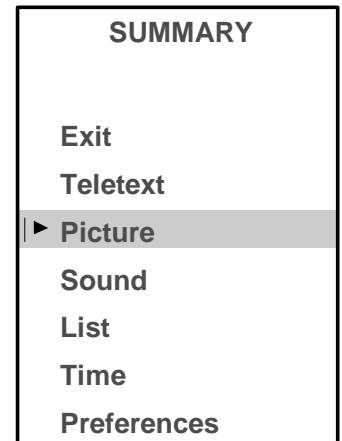
If there is no menu displayed on the screen, press and hold the **menu** key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.



GB

Calling up the Settings summary

Press and release the **menu** key on the remote control to display the list of menus available for using your television functions or adjusting your television



Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the **ok** key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

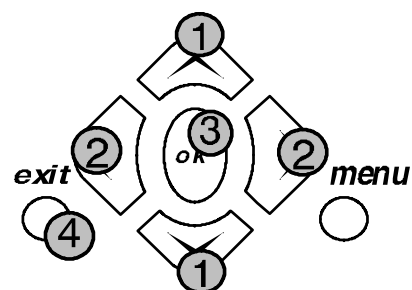
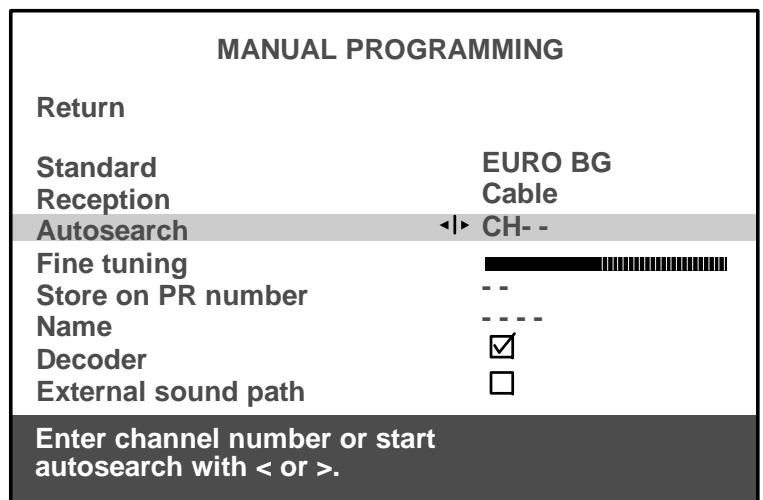
Use the **Left/Right** keys ② to:

- Increase or decrease a value:
for example:
Fine tuning ◀|▶
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶

You can use the **ok** ③ key to:

- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the **exit** ④ key to exit a menu.



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the **pr -** key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using **ok**.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using **ok**.
5. A welcome message is displayed.
6. Run the automatic installation sequence using **ok**.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes. A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press **ok** and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing **exit** then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.

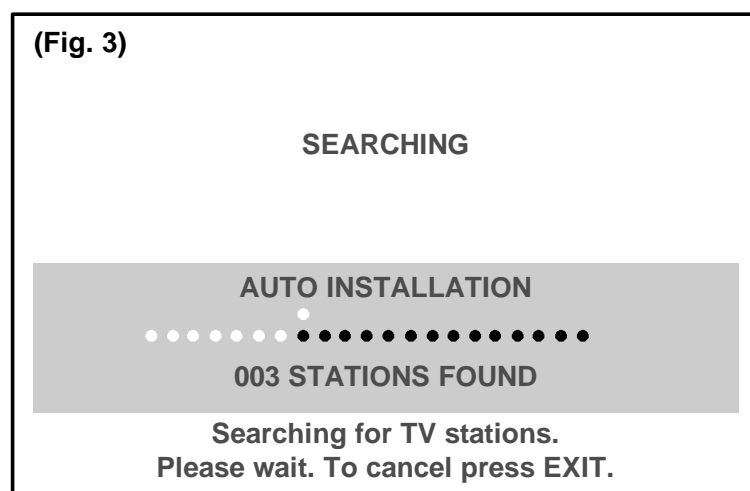
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

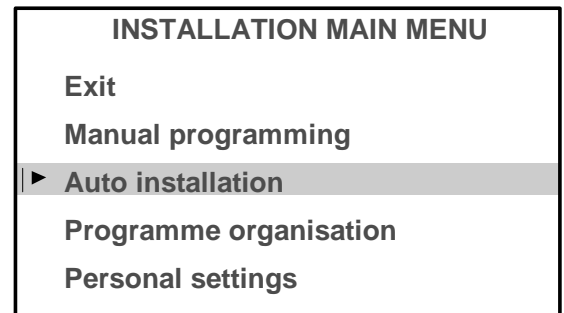
The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

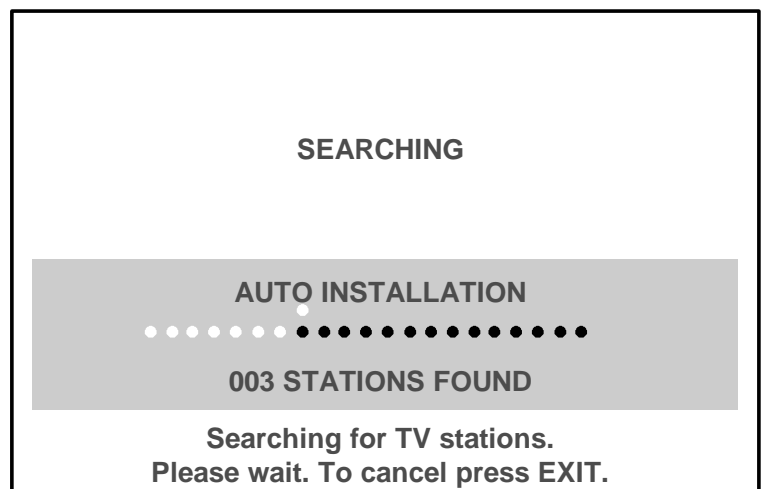
1. Press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using **ok**.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the **ok** key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing **exit**, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION** menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
▶ Programme organisation
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program..**
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program..**
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION		10	MTV
		11	FR2
		12	TF1
		13	EURO
		14	CH40
		15	CC01
		16	ARTE
		17	CART
		18	----
		19	ARD
Return			
Select program.	◀▶ 13		
Swap with PR.	--		
Change pr. name	EURO		
Delete program.	13		
Select programme number using PR-/PR+ or </> or 0 to 9 keys.			

Select the line marked **Return** to return to the previous menu.

Manual programming

The manual installation function is useful if some programmes have not been installed even after AUTOMATIC INSTALLATION.

1. Press and hold **menu**, the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Manual programming**.
3. Display the menu using **ok**.
4. Now continue by following the messages at the bottom of the screen. For further details, read the information below.

Standard :

Select the standard using **Left/Right** keys that corresponds to your country from the list of standards.

The number of standards proposed will differ from one model to another.

France	for France and Luxemburg
DKK'	eg. for Eastern Europe and the Middle-East
I	for the United Kingdom and Ireland
Euro BG	for Western Europe

Reception :

Your television can pick up channels either via an aerial (RF channels) or via a cable network. Certain cable networks use the same frequencies as the RF channels. If this is the case, you must select **Aerial** instead of **Cable**.

Autosearch :

Enter the programme number if you know it. If not, search using the **Left/Right** keys. Your television will stop at the first channel it tunes into. If you wish to memorize it, go to the line marked **Store on PR number**. If not, resume the search using the **Left/Right** keys.

Fine tuning :

You can use this to improve the picture if the transmitter frequency is out of adjustment. Use the **Left/Right** keys to obtain the best possible picture and sound.

Store on PR number :

Enter the programme number you wish to give the channel (e.g.: 01 for BBC1). Memorise using **ok**.

Name :

If the station has been identified by the transmitter, its name will be inscribed automatically. You can change the proposed name or enter it if it has not already been identified. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the character you desire.

Decoder :

Use the **Left/Right** keys to tick the box if the channel is coded and if a decoder is connected to the AV1 jack.

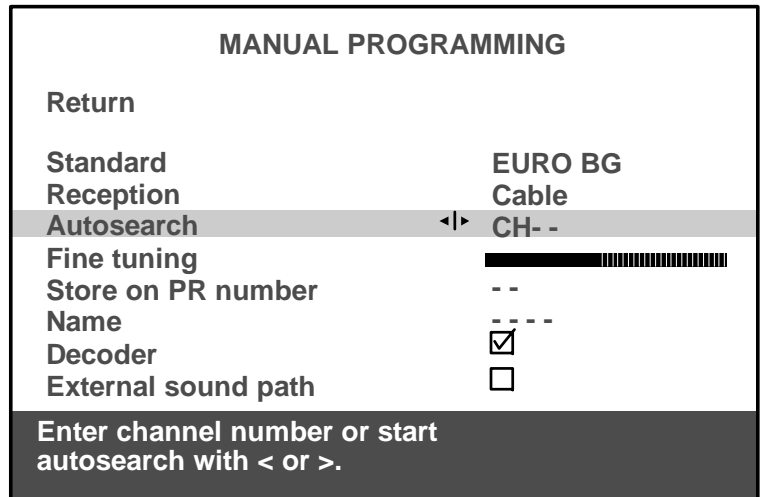
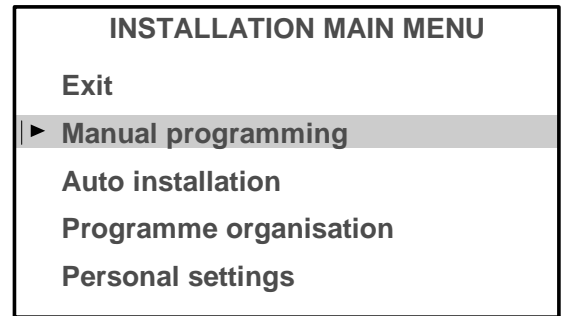
External sound path :

Switch on your decoder. If the sound is coded or if you have no sound, activate or deactivate the box as required using the **Left/Right** keys.



*Once you have made all the adjustments you wish to a programme, go to **Store on PR number** and press **ok** to memorise these. Then move on to the next channel.*

Once you have completed your Manual Programming, exit the menu using **exit**.



Select the line marked **Return** to return to the previous

Personal settings

1. Press and hold the **menu** key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the **info** key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using **exit**.

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
Programme organisation
▶ Personal settings

PERSONAL SETTINGS

Return
Menu language English
Country UK
Auto volume level
AV1 name VCR
AV2 name ----
AV3 name CAMC

Prog. to be used for reference time ◀▶ 06 13:15


Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the **menu** key on the remote control. Select **Picture**. Validate using **OK**. The **PICTURE** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Brightness, Colour, Contrast, Sharpness:

Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).


Exit the menu using **exit**.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.

Sound Settings

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Sound**. Validate using **ok**. The **SOUND** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.



Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the **Left/Right** keys.

The choices available to you depend on your television model and the type of sound. **Magic** and **Dolby Virtual** modes are only available in stereo on TV's equipped with Virtual Dolby Surround.



Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.

Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :



This line appears only if you have selected **Dolby Virtual** on the **Sound mode** line.

Select this line and adjust the surround effect to suit you.

Exit the menu using **exit**.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode	Effect
Normal :	reproduces the original sound (mono or stereo).
Wide :	gives a stereo effect on mono sounds.
Stereo wide :	accentuates the stereo effect.
Magic :	accentuates the stereo effects and adds echo.
Dolby Virtual :	Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

"Dolby", "Pro Logic" and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the *menu* key on the remote control. Select the line marked **Time**. Validate using *ok*. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.


Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using *exit*.

Set the television to standby using the  key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	<input checked="" type="checkbox"/>
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	<input type="checkbox"/>

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control

or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.

- Validate using **ok**.

- Exit the menu using **exit**.

LIST	
Exit	
▶ 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE TV
06	M6
07	CNN
08	PREM
09	EURO
Page -/+ ◀/▶	
Programme: 0 - 9	

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume +/- keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information


Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fasttext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select "- - -" using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fasttext functions:

If the Teletext you receive is Fasttext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the **text** key.

To exit Teletext, press **exit** or **text**.

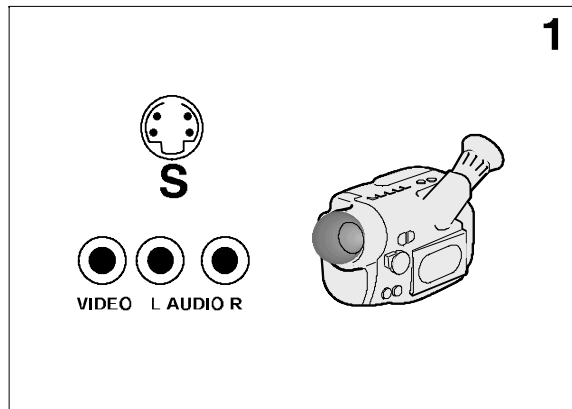
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



*To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.*

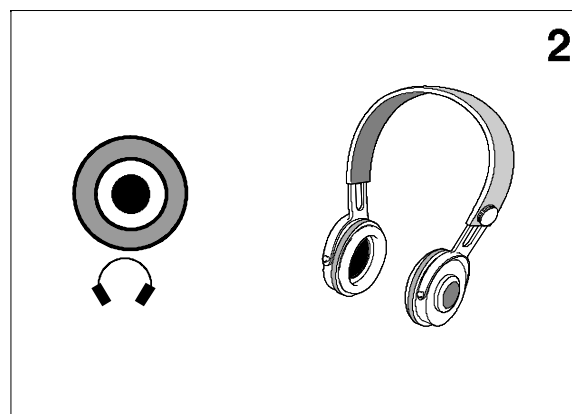


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.




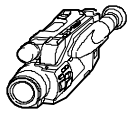
* on models equipped with this function

Other Possibilities

Copying a cassette:

Plug the VCR **you wish to record to** into the SCART socket AV2.

Plug the appliance **you wish to copy from** as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
 VCR	Peripheral AV1	VCR ou Camcorder	AV2	AV1
 Camcorder	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.

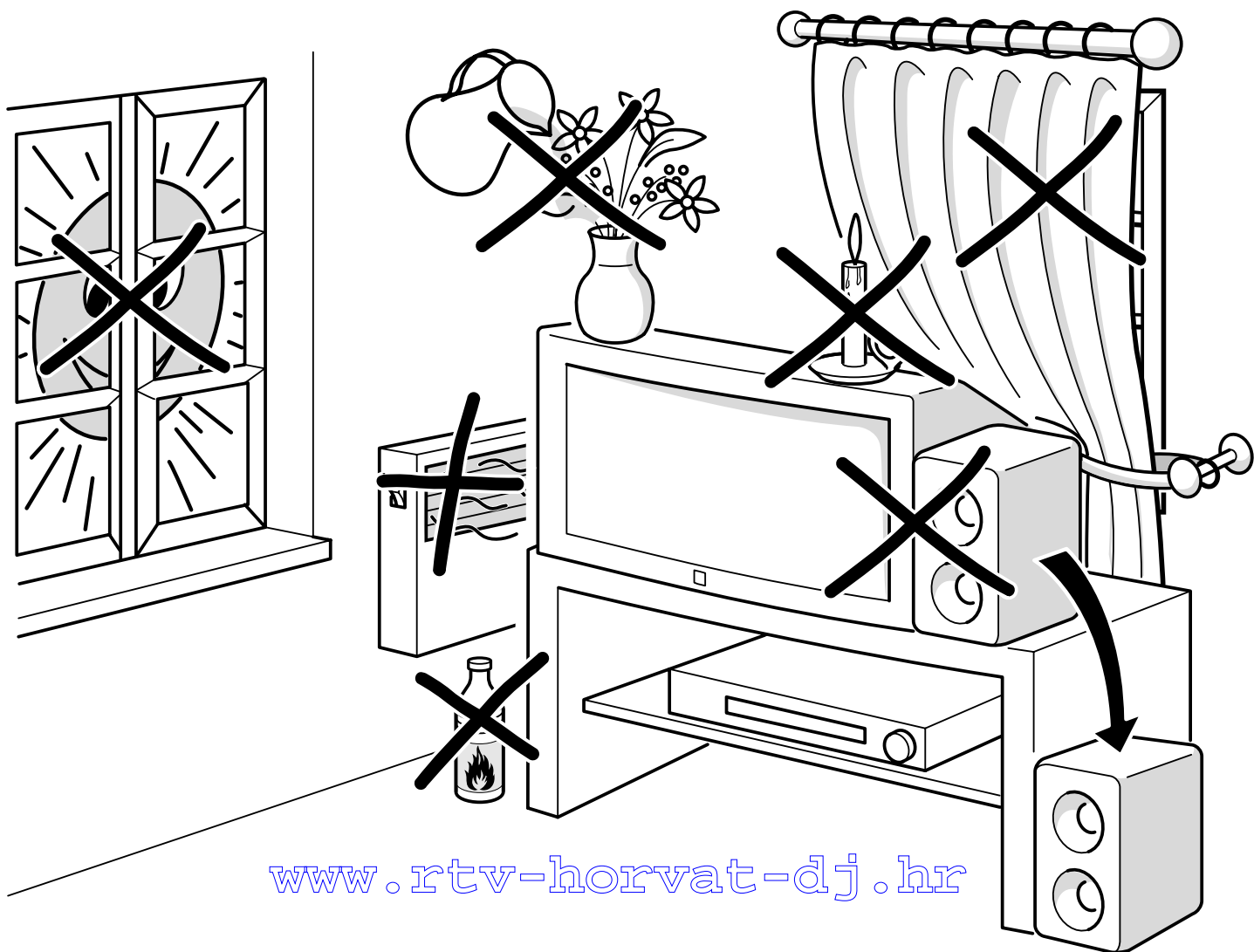
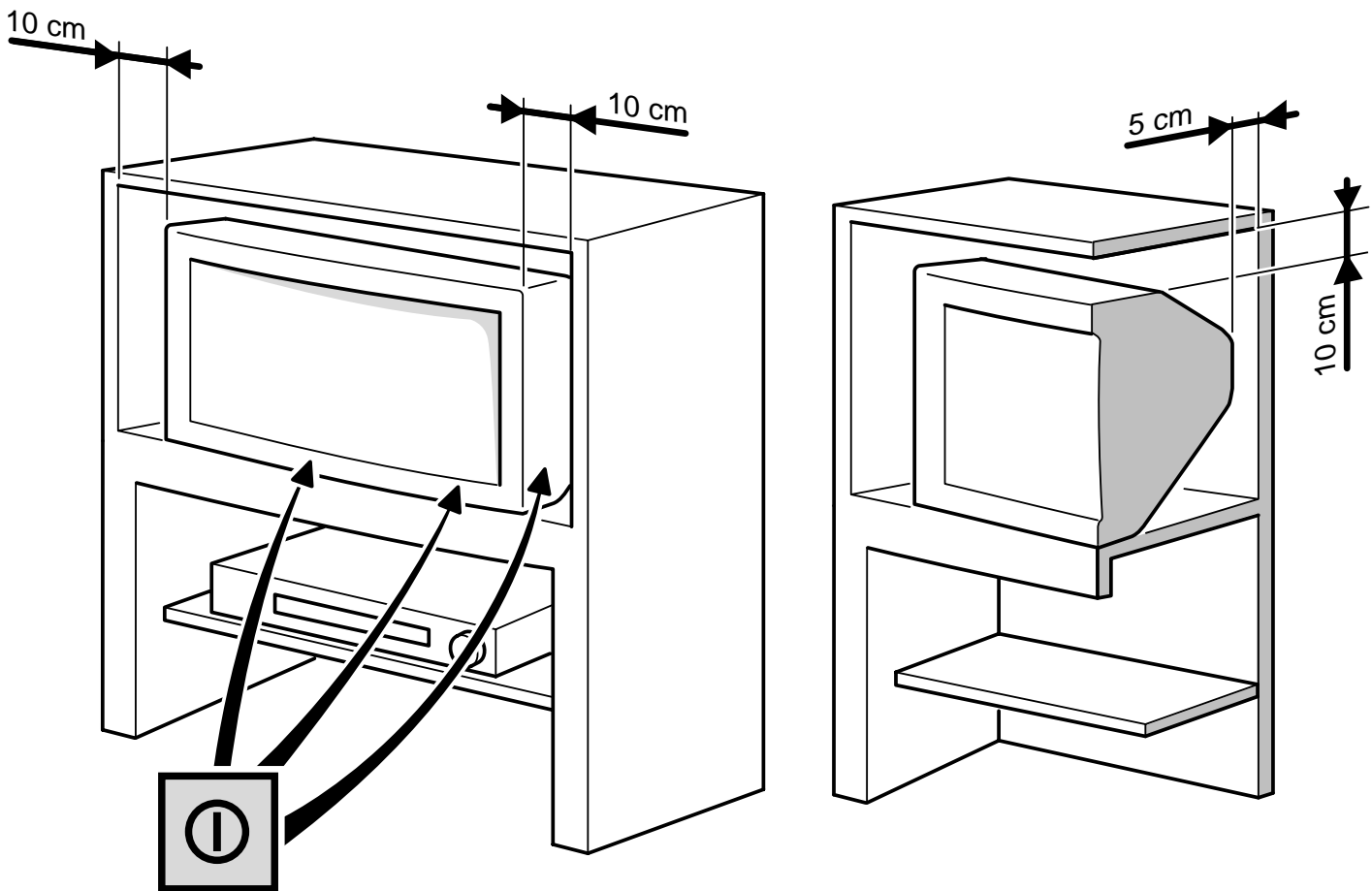


SABA

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ΟΔΗΓΙΕ ΧΡΗΣΕΩΣ

www.rtr.hr/vat/dj.hr

M8521C / T7021C



About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation. A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

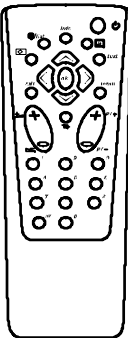
Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.

This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.

Contents


GB



Using the remote control and fitting the batteries.

Page 4

How to call up a menu and how to select a function, a setting or an option.



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Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

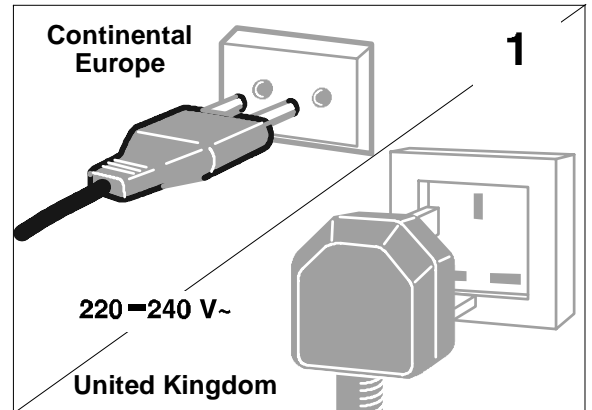
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

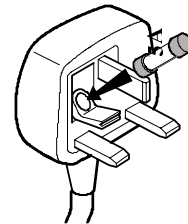
The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

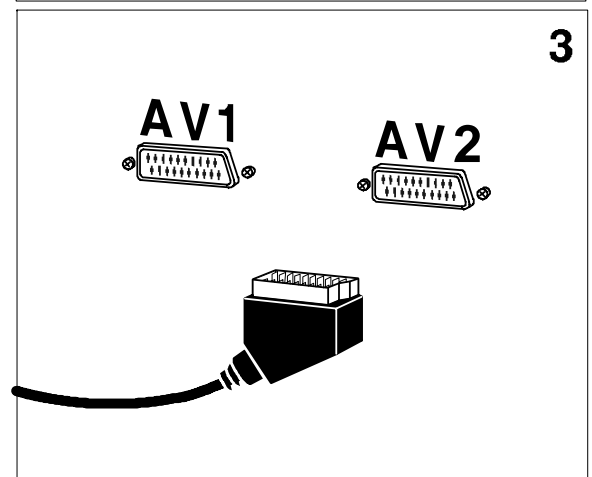
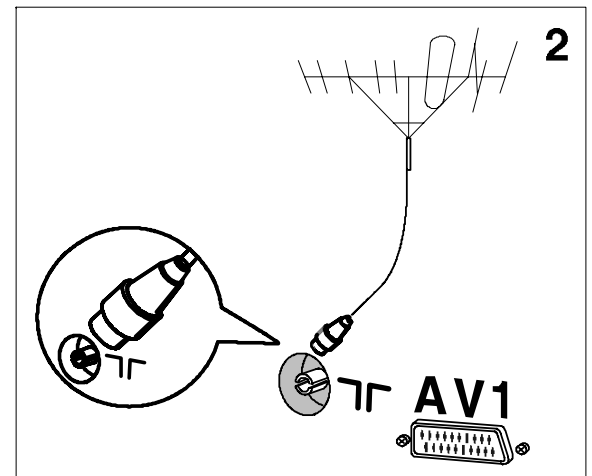
When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.



The plug is fitted with a fuse which protects your television. If your television does not work, the fuse may be blown. In this case, replace it with an identical 5 Amp ASTA or Ir BSI (BS 1362) certified fuse.



Note: the mains lead of your television is fitted with a moulded plug. This lead contains all the safety equipment, so you are advised when replacing it not to use a non-specific commercially-available model.



GB

Remote control

Display of channel, time, sound (yellow button) (and zoom for models with zoom)

This key is active only when using the Teletext (blue key)

Call up programme list (green button)

Standby

Reminder of picture preferences (red button)

Call up Teletext / Toptext / Fasttext function (purple button)

Confirm an action or validate a menu option

Right/Left Selection within menus and Zoom Function (for models with this function)

To leave a menu or Teletext

Go to adjustment function MENU

Volume adjustment

Move Up/Down in menus

Sound mute

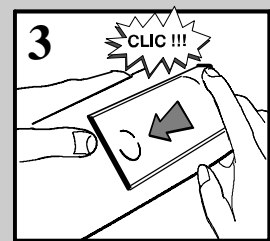
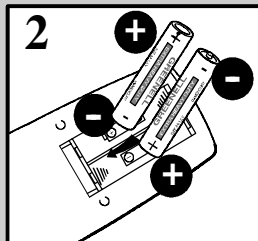
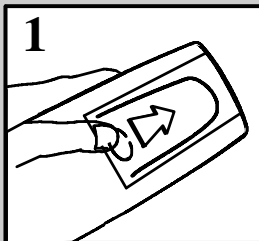
Change programme

Selecting appliances connected to the television (AV1, AV2 ...)

Go to programmes and enter numerical values in menus

The red, green, yellow and blue keys are also used for the Teletext.

For programme numbers higher than 10, press the 0 key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.

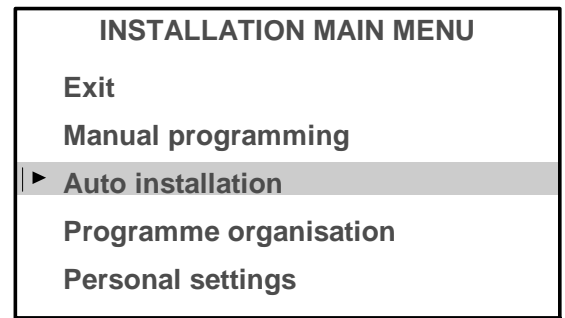


Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

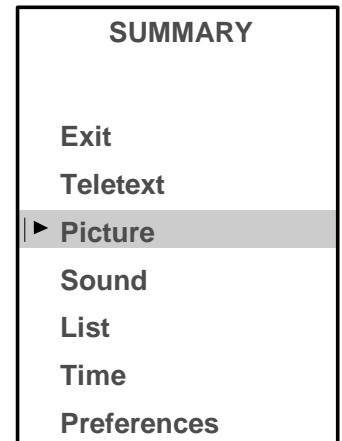
If there is no menu displayed on the screen, press and hold the **menu** key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.



GB

Calling up the Settings summary

Press and release the **menu** key on the remote control to display the list of menus available for using your television functions or adjusting your television



Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the **ok** key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

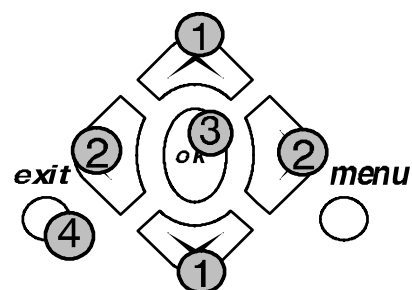
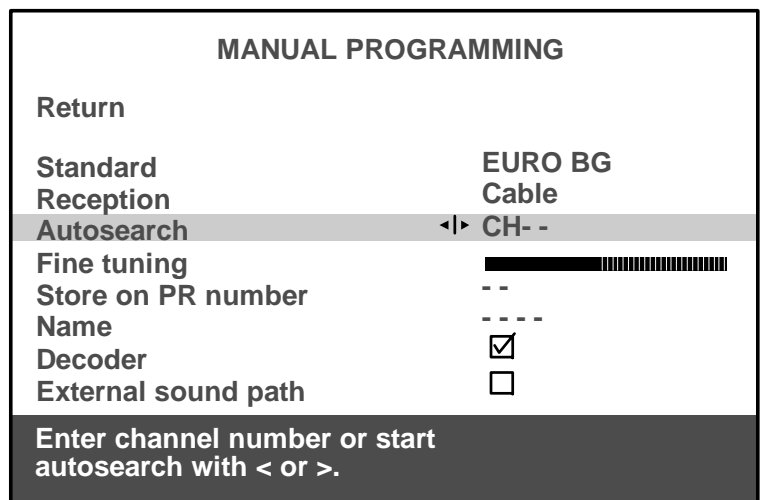
Use the **Left/Right** keys ② to:

- Increase or decrease a value:
for example:
Fine tuning ◀|▶
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶

You can use the **ok** ③ key to:

- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the **exit** ④ key to exit a menu.



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the **pr -** key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using **ok**.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using **ok**.
5. A welcome message is displayed.
6. Run the automatic installation sequence using **ok**.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes. A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press **ok** and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing **exit** then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.

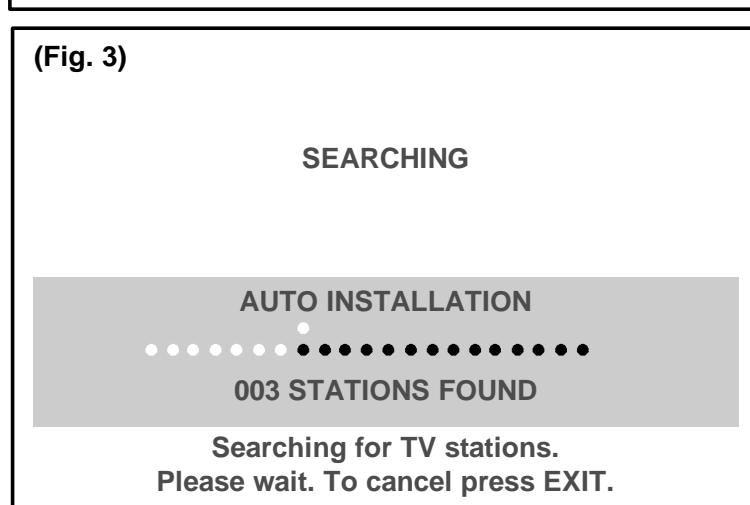
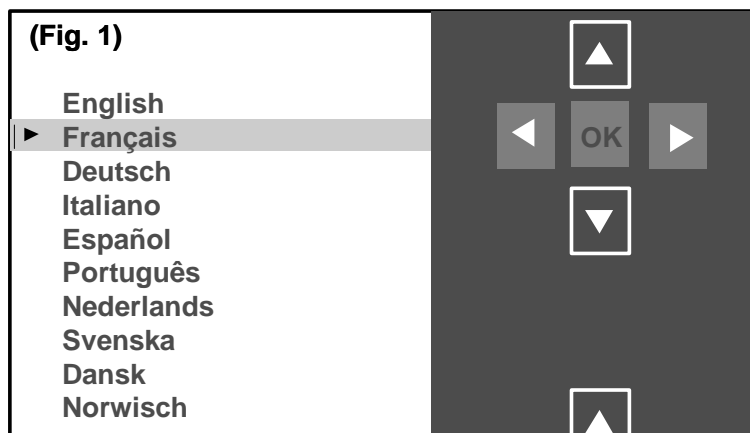
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

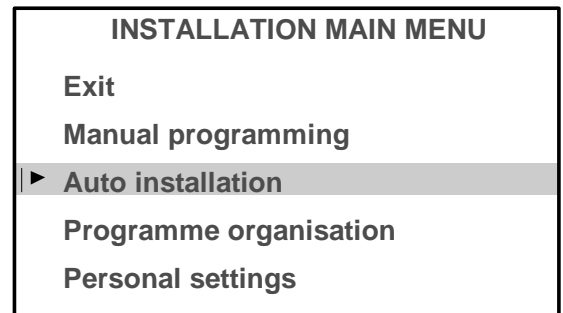
The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

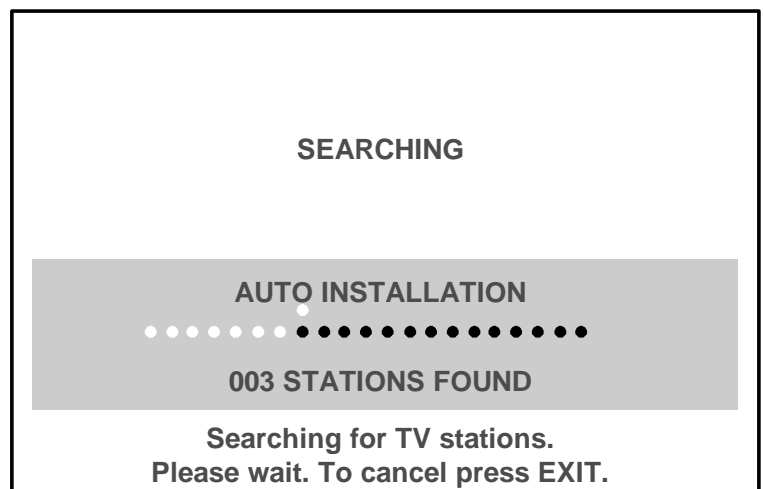
1. Press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using **ok**.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the **ok** key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing **exit**, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION** menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
▶ Programme organisation
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program..**
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program..**
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION		10	MTV
		11	FR2
		12	TF1
		13	EURO
		14	CH40
		15	CC01
		16	ARTE
		17	CART
		18	----
		19	ARD
Return			
Select program.	◀▶ 13		
Swap with PR.	--		
Change pr. name	EURO		
Delete program.	13		
Select programme number using PR-/PR+ or </> or 0 to 9 keys.			

Select the line marked **Return** to return to the previous menu.

Manual programming

The manual installation function is useful if some programmes have not been installed even after AUTOMATIC INSTALLATION.

1. Press and hold **menu**, the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Manual programming**.
3. Display the menu using **ok**.
4. Now continue by following the messages at the bottom of the screen. For further details, read the information below.

Standard :

Select the standard using **Left/Right** keys that corresponds to your country from the list of standards.

The number of standards proposed will differ from one model to another.

France	for France and Luxemburg
DKK'	eg. for Eastern Europe and the Middle-East
I	for the United Kingdom and Ireland
Euro BG	for Western Europe

Reception :

Your television can pick up channels either via an aerial (RF channels) or via a cable network. Certain cable networks use the same frequencies as the RF channels. If this is the case, you must select **Aerial** instead of **Cable**.

Autosearch :

Enter the programme number if you know it. If not, search using the **Left/Right** keys. Your television will stop at the first channel it tunes into. If you wish to memorize it, go to the line marked **Store on PR number**. If not, resume the search using the **Left/Right** keys.

Fine tuning :

You can use this to improve the picture if the transmitter frequency is out of adjustment. Use the **Left/Right** keys to obtain the best possible picture and sound.

Store on PR number :

Enter the programme number you wish to give the channel (e.g.: 01 for BBC1). Memorise using **ok**.

Name :

If the station has been identified by the transmitter, its name will be inscribed automatically. You can change the proposed name or enter it if it has not already been identified. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the character you desire.

Decoder :

Use the **Left/Right** keys to tick the box if the channel is coded and if a decoder is connected to the AV1 jack.

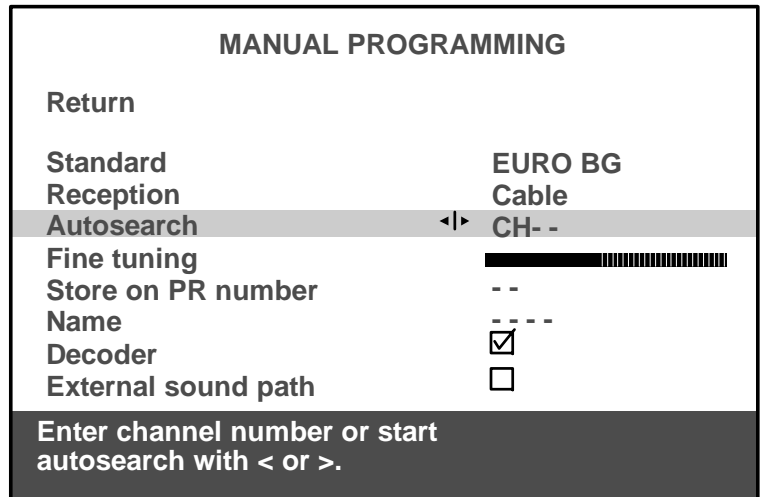
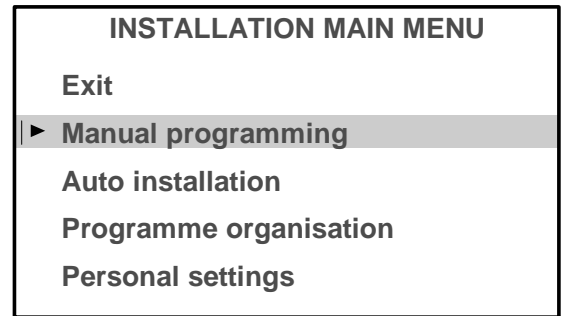
External sound path :

Switch on your decoder. If the sound is coded or if you have no sound, activate or deactivate the box as required using the **Left/Right** keys.



*Once you have made all the adjustments you wish to a programme, go to **Store on PR number** and press **ok** to memorise these. Then move on to the next channel.*

Once you have completed your Manual Programming, exit the menu using **exit**.



Select the line marked **Return** to return to the previous

Personal settings

1. Press and hold the **menu** key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the **info** key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using **exit**.

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
Programme organisation
▶ Personal settings

PERSONAL SETTINGS

Return
Menu language English
Country UK
Auto volume level
AV1 name VCR
AV2 name ----
AV3 name CAMC

Prog. to be used for reference time ◀▶ 06 13:15


Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the **menu** key on the remote control. Select **Picture**. Validate using **OK**. The **PICTURE** menu is displayed.

 *Select and set the proposed options. Use the information below to help you.*

Brightness, Colour, Contrast, Sharpness:

Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).


Exit the menu using **exit**.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.

Sound Settings

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Sound**. Validate using **ok**. The **SOUND** menu is displayed.

 *Select and set the proposed options. Use the information below to help you.*

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.



Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the **Left/Right** keys.

The choices available to you depend on your television model and the type of sound. Magic and Dolby Virtual modes are only available in stereo on TV's equipped with Virtual Dolby Surround.



Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.


Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :

 *This line appears only if you have selected Dolby Virtual on the Sound mode line.*

Select this line and adjust the surround effect to suit you.

Exit the menu using **exit**.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode	Effect
Normal :	reproduces the original sound (mono or stereo).
Wide :	gives a stereo effect on mono sounds.
Stereo wide :	accentuates the stereo effect.
Magic :	accentuates the stereo effects and adds echo.
Dolby Virtual :	Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

“Dolby”, “Pro Logic” and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Time**. Validate using **ok**. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.

Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using **exit**.

Set the television to standby using the **(i)** key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	<input checked="" type="checkbox"/>
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	<input type="checkbox"/>

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control

or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.

- Validate using **ok**.

- Exit the menu using **exit**.

LIST	
Exit	
▶ 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE TV
06	M6
07	CNN
08	PREM
09	EURO
Page -/+ ◀/▶	
Programme: 0 - 9	

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume +/- keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information


Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fasttext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select "- - -" using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fasttext functions:

If the Teletext you receive is Fasttext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the **text** key.

To exit Teletext, press **exit** or **text**.

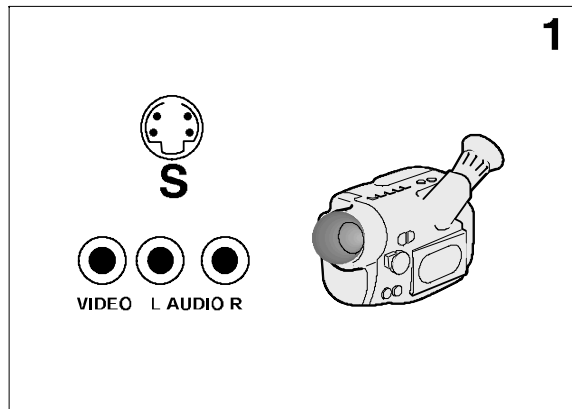
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



*To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.*

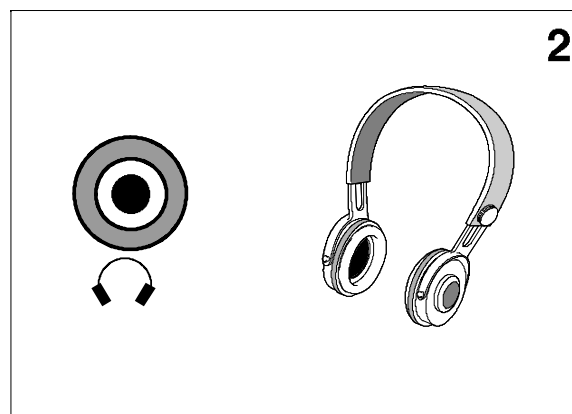


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.




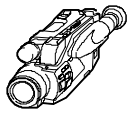
* on models equipped with this function

Other Possibilities

Copying a cassette:

Plug the VCR **you wish to record to** into the SCART socket AV2.

Plug the appliance **you wish to copy from** as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
 VCR	Peripheral AV1	VCR ou Camcorder	AV2	AV1
 Camcorder	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.

M a n u e l
d' u t i l i s a t i o n
B e d i e n u n g s -
a n l e i t u n g
M a n u a l e d i
u t i l i z z a z i o n e
U s e r
m a n u a l
M a n u a l d e
u t i l i z a c i ó n
G e b r u i k s -
a a n w i j z i n g
B r u k s a n -
v i s n i n g
B e t j e n i n g s -
v e j l e d n i n g
F o l h e t o d e
u t i l i z a ç ã o

21DU21E

21MT21E

25DG21E

25DT21E

25DU23E

28DG21E

28WS21E

29DL21E

29MH21E

21DU23E

24WK21E

25DH21E

25DU21E

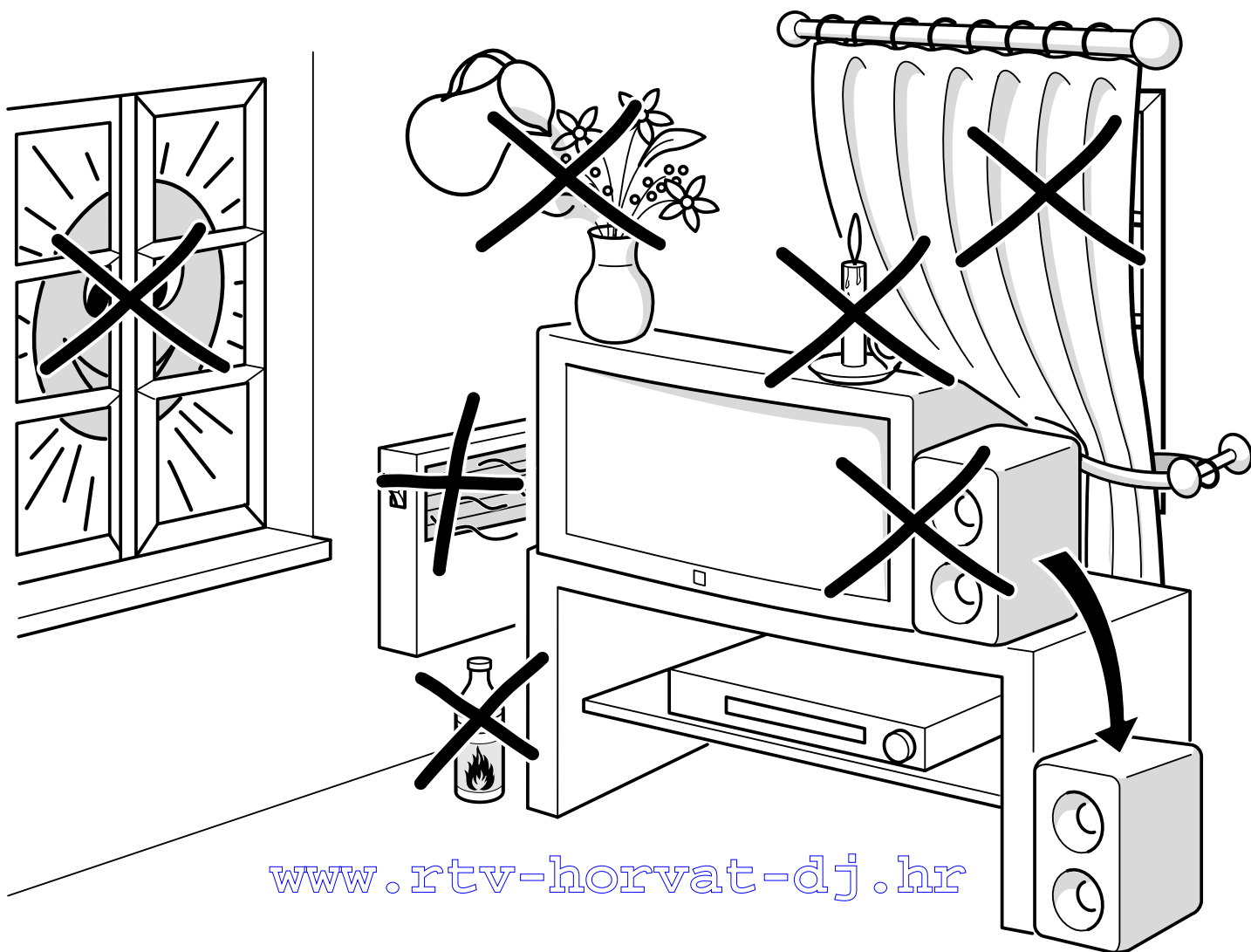
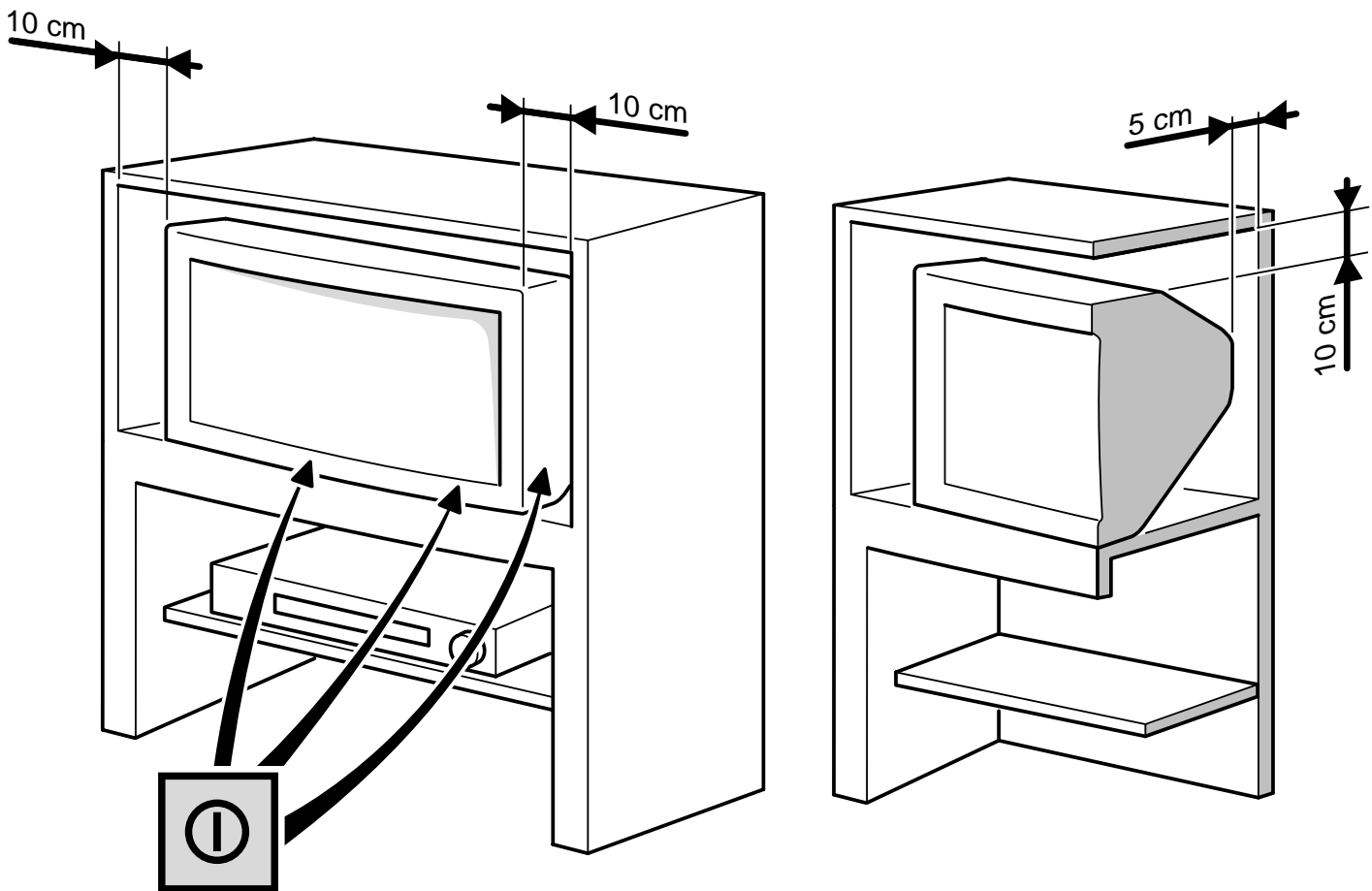
25MH21E

28DT21E

29DH21E

29DU21E

33MS21E



About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation. A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

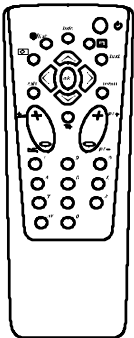
Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.

This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.

Contents

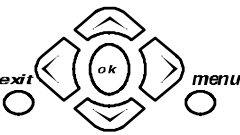
GB



Using the remote control and fitting the batteries.

Page 4

How to call up a menu and how to select a function, a setting or an option.



Page 5

Installation

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Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

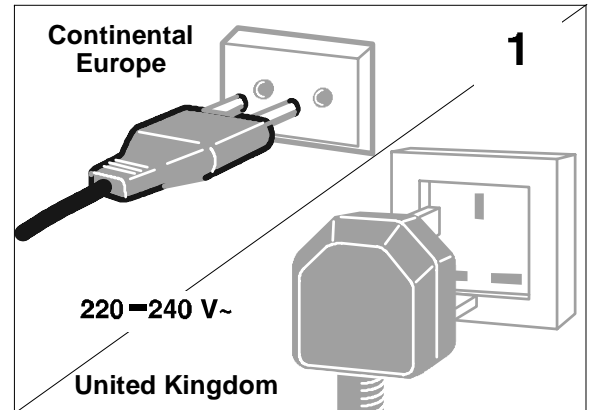
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

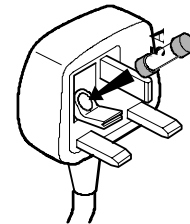
The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

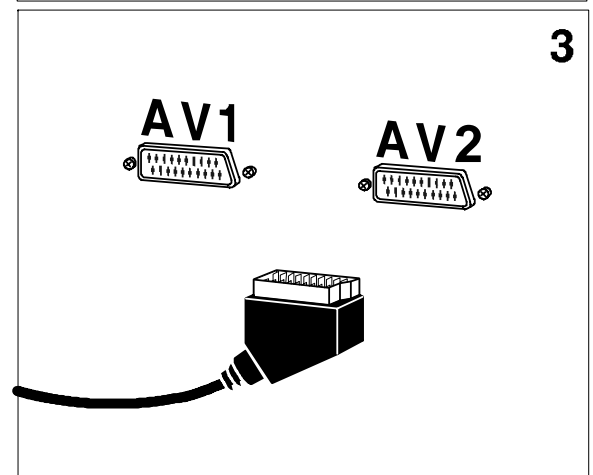
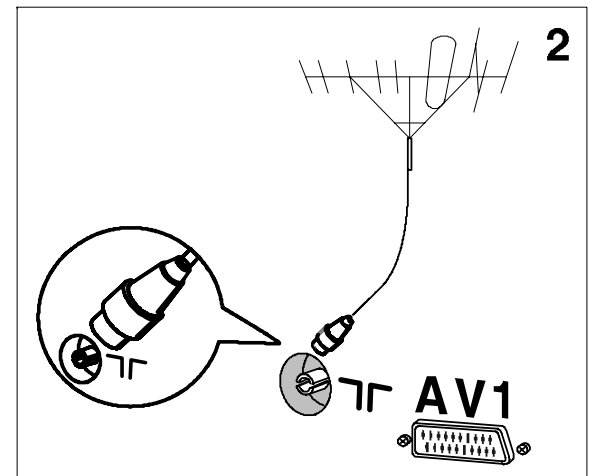
When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.



The plug is fitted with a fuse which protects your television. If your television does not work, the fuse may be blown. In this case, replace it with an identical 5 Amp ASTA or Ir BSI (BS 1362) certified fuse.



Note: the mains lead of your television is fitted with a moulded plug. This lead contains all the safety equipment, so you are advised when replacing it not to use a non-specific commercially-available model.



Remote control

Display of channel, time, sound (yellow button) (and zoom for models with zoom)

This key is active only when using the Teletext (blue key)

Call up programme list (green button)

Standby

Reminder of picture preferences (red button)

Call up Teletext / Toptext / Fastext function (purple button)

Confirm an action or validate a menu option

Right/Left Selection within menus and Zoom Function (for models with this function)

To leave a menu or Teletext

Go to adjustment function MENU

Volume adjustment

Move Up/Down in menus

Sound mute

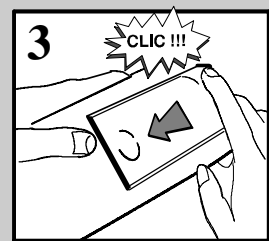
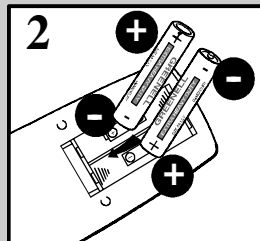
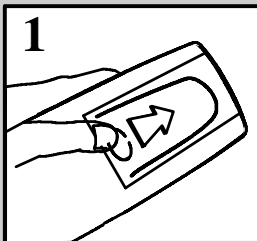
Change programme

Selecting appliances connected to the television (AV1, AV2 ...)

Go to programmes and enter numerical values in menus

The red, green, yellow and blue keys are also used for the Teletext.

For programme numbers higher than 10, press the 0 key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.

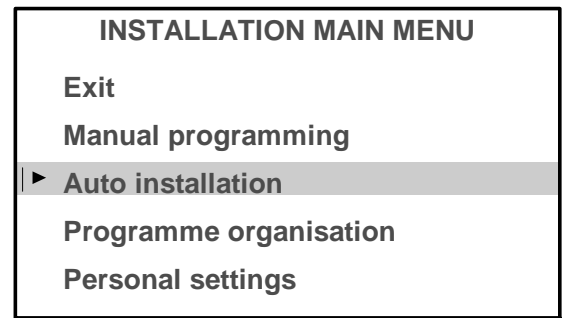


Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

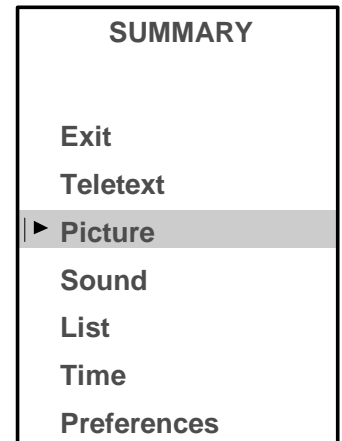
If there is no menu displayed on the screen, press and hold the **menu** key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.



GB

Calling up the Settings summary

Press and release the **menu** key on the remote control to display the list of menus available for using your television functions or adjusting your television



Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the **ok** key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

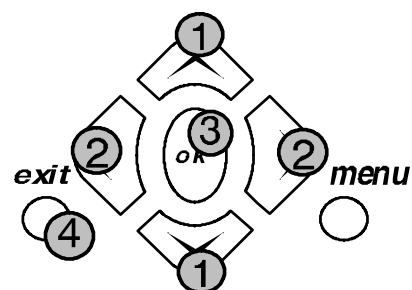
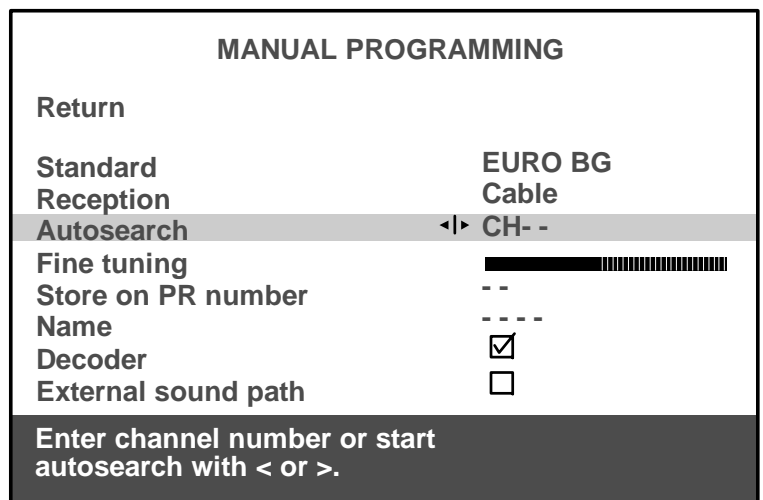
Use the **Left/Right** keys ② to:

- Increase or decrease a value:
for example:
Fine tuning ◀|▶
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶

You can use the **ok** ③ key to:

- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the **exit** ④ key to exit a menu.



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the **pr -** key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using **ok**.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using **ok**.
5. A welcome message is displayed.
6. Run the automatic installation sequence using **ok**.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes. A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press **ok** and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing **exit** then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.

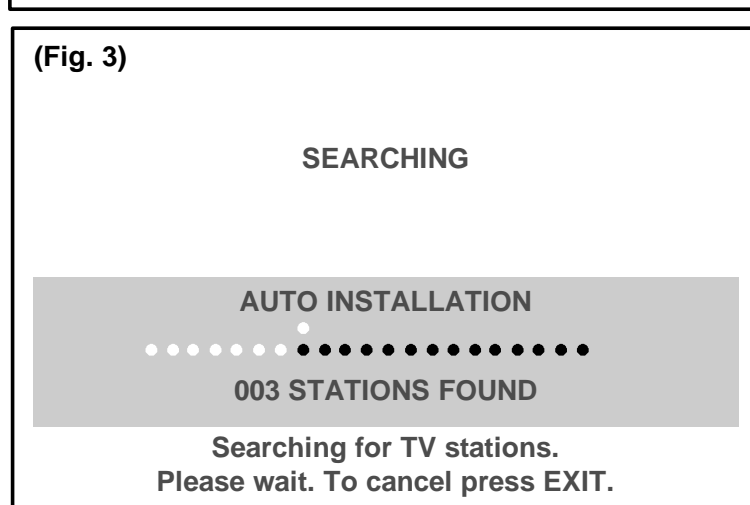
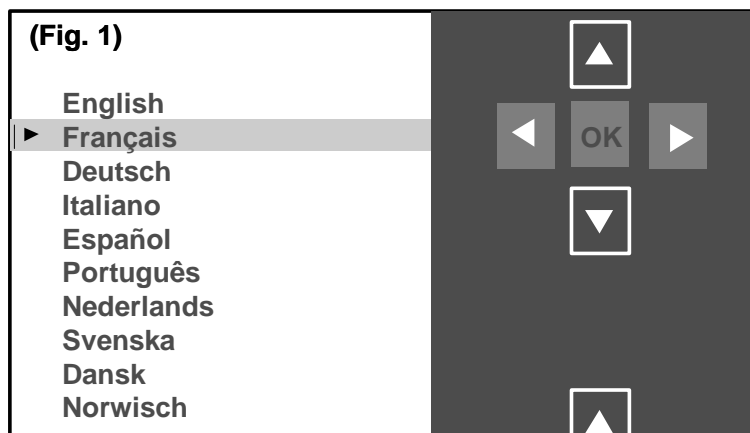
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

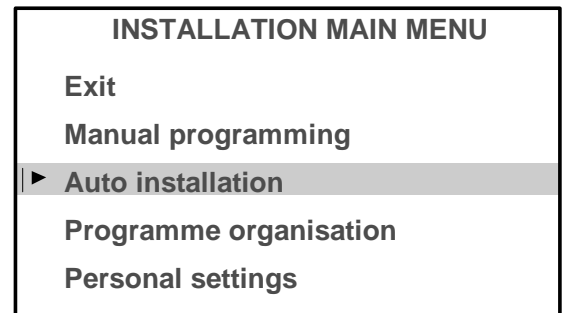
The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

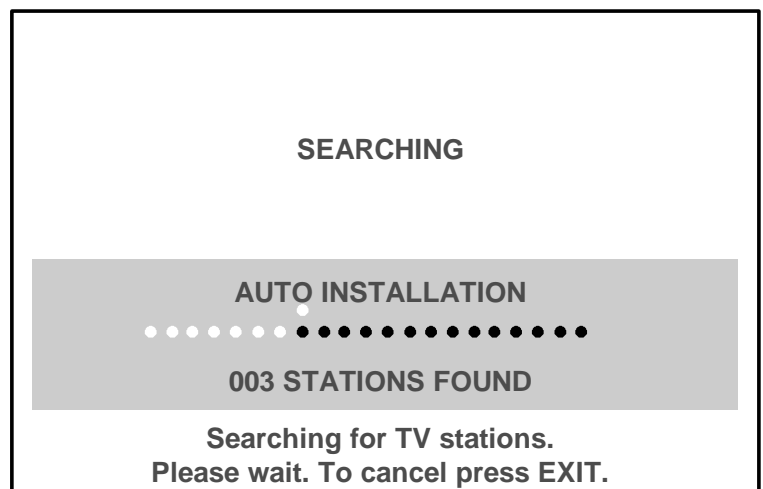
1. Press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using **ok**.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the **ok** key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing **exit**, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION** menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
▶ Programme organisation
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program..**
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program..**
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION		10	MTV
		11	FR2
		12	TF1
		13	EURO
		14	CH40
		15	CC01
		16	ARTE
		17	CART
		18	----
		19	ARD
Return			
Select program.	◀▶ 13		
Swap with PR.	--		
Change pr. name	EURO		
Delete program.	13		
Select programme number using PR-/PR+ or </> or 0 to 9 keys.			

Select the line marked **Return** to return to the previous menu.

Manual programming

The manual installation function is useful if some programmes have not been installed even after AUTOMATIC INSTALLATION.

1. Press and hold **menu**, the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Manual programming**.
3. Display the menu using **ok**.
4. Now continue by following the messages at the bottom of the screen. For further details, read the information below.

Standard :

Select the standard using **Left/Right** keys that corresponds to your country from the list of standards.

The number of standards proposed will differ from one model to another.

France	for France and Luxemburg
DKK'	eg. for Eastern Europe and the Middle-East
I	for the United Kingdom and Ireland
Euro BG	for Western Europe

Reception :

Your television can pick up channels either via an aerial (RF channels) or via a cable network. Certain cable networks use the same frequencies as the RF channels. If this is the case, you must select **Aerial** instead of **Cable**.

Autosearch :

Enter the programme number if you know it. If not, search using the **Left/Right** keys. Your television will stop at the first channel it tunes into. If you wish to memorize it, go to the line marked **Store on PR number**. If not, resume the search using the **Left/Right** keys.

Fine tuning :

You can use this to improve the picture if the transmitter frequency is out of adjustment. Use the **Left/Right** keys to obtain the best possible picture and sound.

Store on PR number :

Enter the programme number you wish to give the channel (e.g.: 01 for BBC1). Memorise using **ok**.

Name :

If the station has been identified by the transmitter, its name will be inscribed automatically. You can change the proposed name or enter it if it has not already been identified. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the character you desire.

Decoder :

Use the **Left/Right** keys to tick the box if the channel is coded and if a decoder is connected to the AV1 jack.

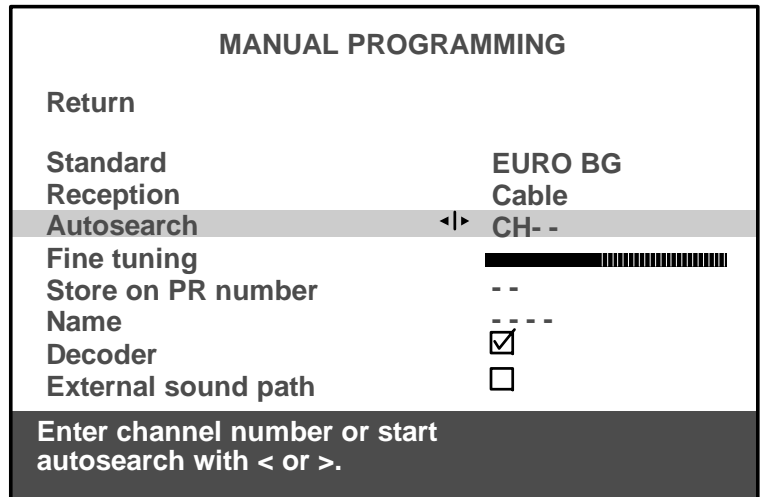
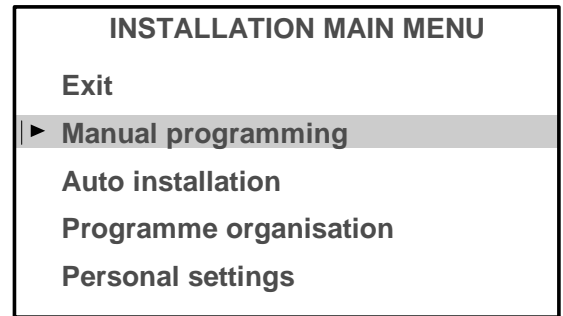
External sound path :

Switch on your decoder. If the sound is coded or if you have no sound, activate or deactivate the box as required using the **Left/Right** keys.



*Once you have made all the adjustments you wish to a programme, go to **Store on PR number** and press **ok** to memorise these. Then move on to the next channel.*

Once you have completed your Manual Programming, exit the menu using **exit**.



Select the line marked **Return** to return to the previous

Personal settings

1. Press and hold the **menu** key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the **info** key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using **exit**.

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
Programme organisation
▶ Personal settings

PERSONAL SETTINGS

Return
Menu language English
Country UK
Auto volume level
AV1 name VCR
AV2 name ----
AV3 name CAMC

Prog. to be used for reference time ◀▶ 06 13:15


Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the **menu** key on the remote control. Select **Picture**. Validate using **OK**. The **PICTURE** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Brightness, Colour, Contrast, Sharpness:

Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).


Exit the menu using **exit**.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.

Sound Settings

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Sound**. Validate using **ok**. The **SOUND** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.



Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the **Left/Right** keys.

The choices available to you depend on your television model and the type of sound. **Magic** and **Dolby Virtual** modes are only available in stereo on TV's equipped with Virtual Dolby Surround.



Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.

Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :



This line appears only if you have selected **Dolby Virtual** on the **Sound mode** line.

Select this line and adjust the surround effect to suit you.

Exit the menu using **exit**.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode	Effect
Normal :	reproduces the original sound (mono or stereo).
Wide :	gives a stereo effect on mono sounds.
Stereo wide :	accentuates the stereo effect.
Magic :	accentuates the stereo effects and adds echo.
Dolby Virtual :	Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

"Dolby", "Pro Logic" and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Time**. Validate using **ok**. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.

Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using **exit**.

Set the television to standby using the **(i)** key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	<input checked="" type="checkbox"/>
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	<input type="checkbox"/>

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control
or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.

- Validate using **ok**.

- Exit the menu using **exit**.

LIST	
Exit	
▶ 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE TV
06	M6
07	CNN
08	PREM
09	EURO
Page -/+ ◀/▶	
Programme: 0 - 9	

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume +/- keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information


Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fasttext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select "- - -" using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fasttext functions:

If the Teletext you receive is Fasttext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the **text** key.

To exit Teletext, press **exit** or **text**.

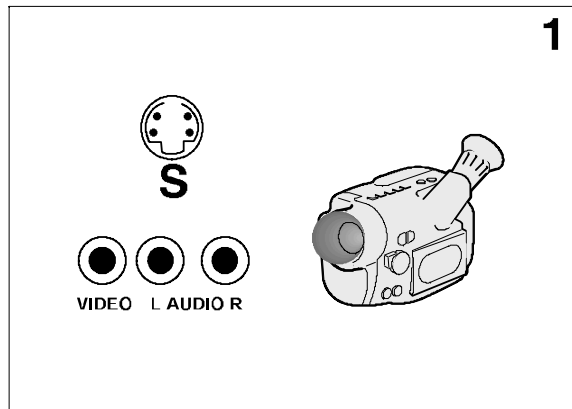
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



*To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.*

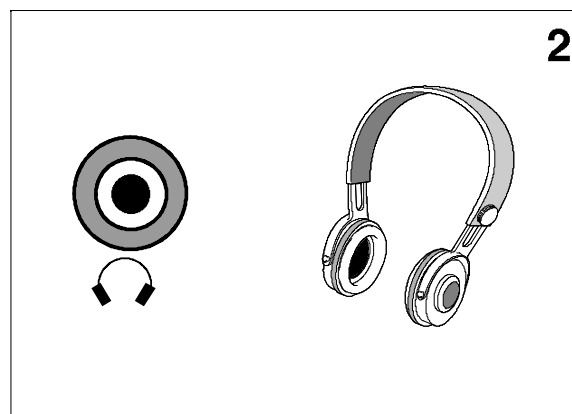


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.




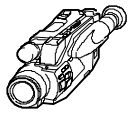
* on models equipped with this function

Other Possibilities

Copying a cassette:

Plug the VCR **you wish to record to** into the SCART socket AV2.

Plug the appliance **you wish to copy from** as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
 VCR	Peripheral AV1	VCR ou Camcorder	AV2	AV1
 Camcorder	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.

B e d i e n u n g s -

a n l e i t u n g ▪

M a n u a l e d i

u t i l i z a z i o n e ▪

U s e r

m a n u a l ▪

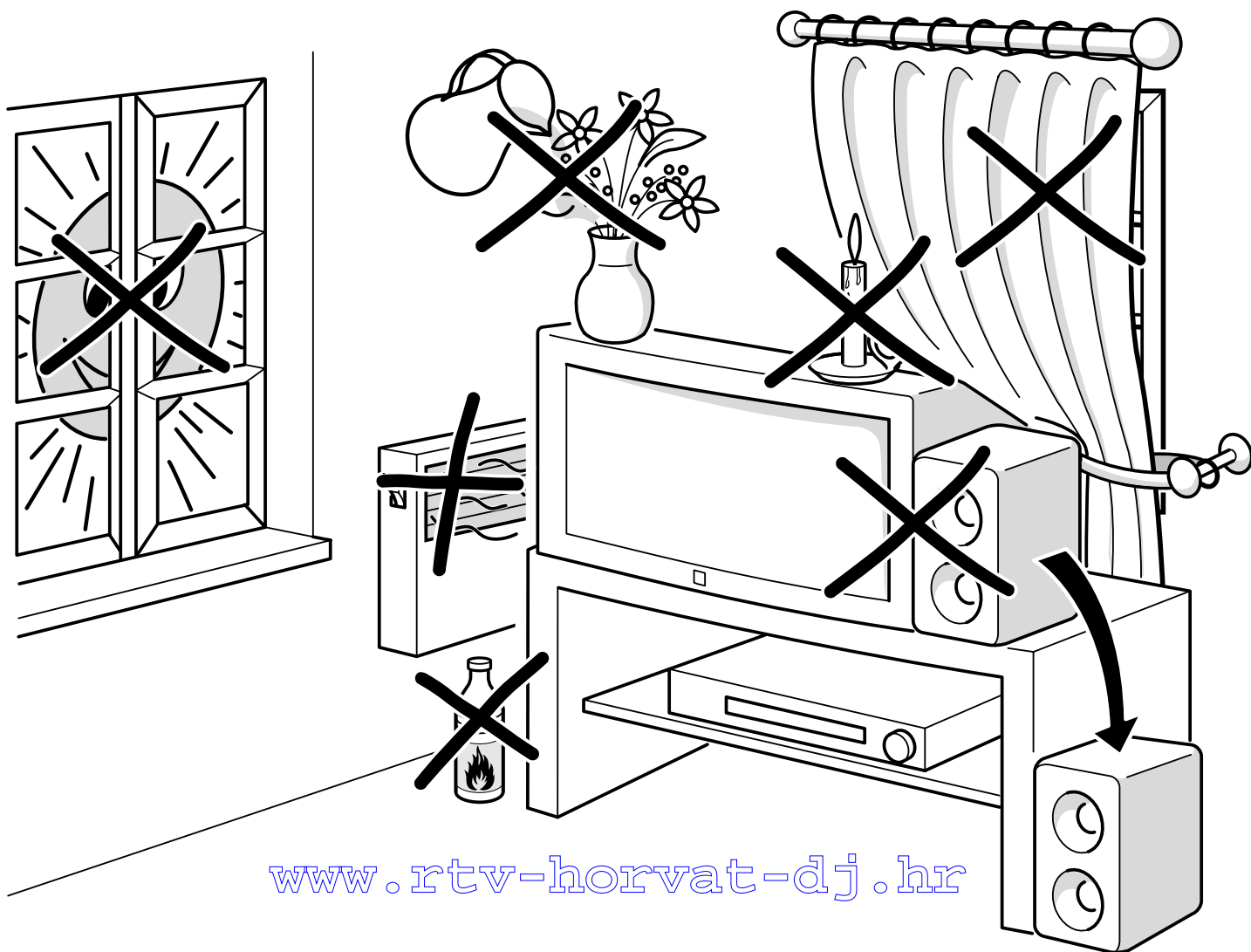
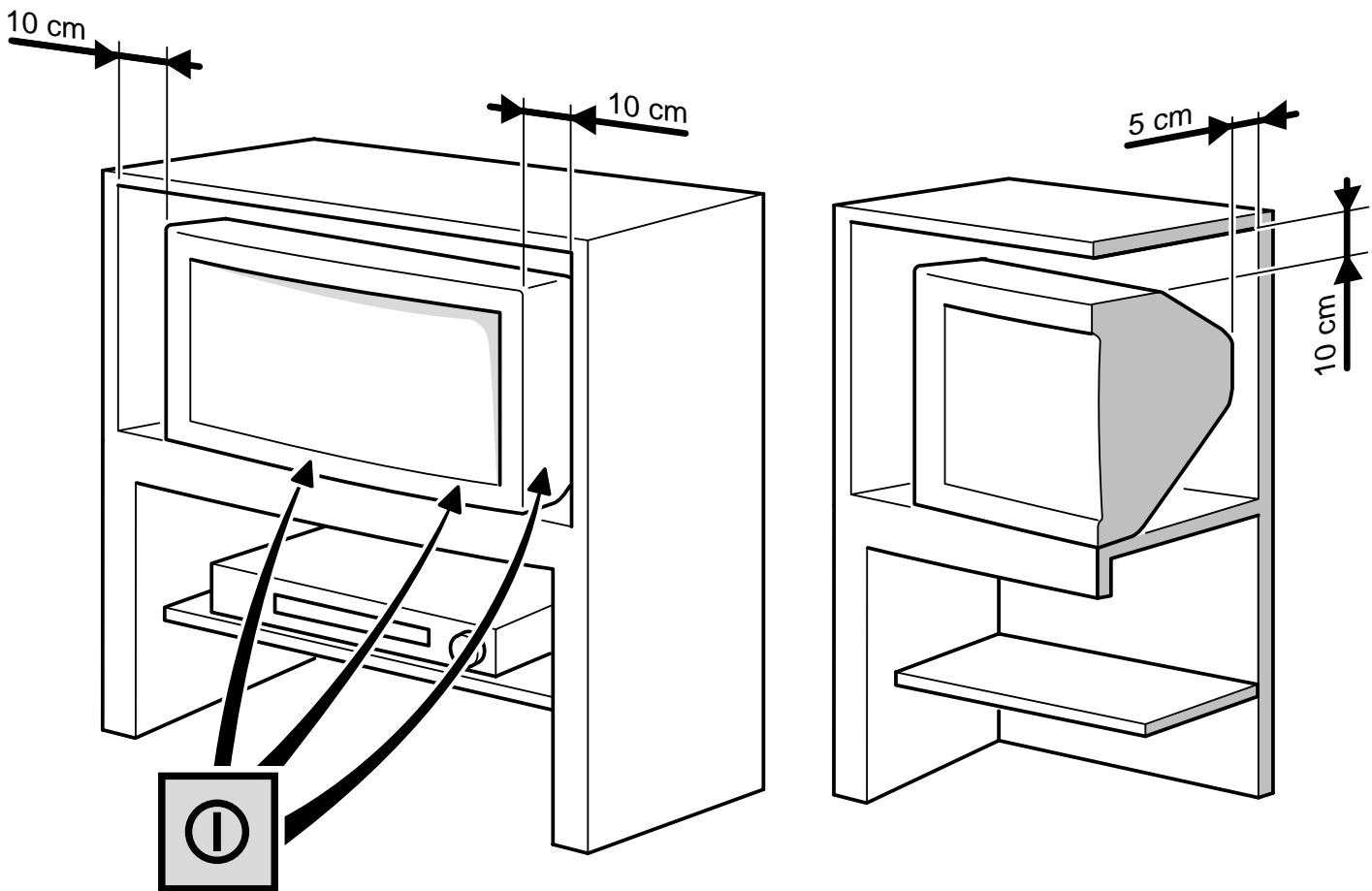
TELEFUNKEN

DF321C / DF421C / MF221C

Ο δ η γ ο ς

Χ ρ η σ ε ω ς ▪

www.rtv-horvat-dj.hr



About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation. A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

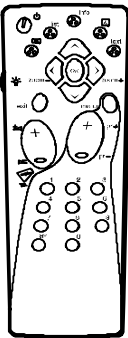
About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.


This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.



Using the remote control and fitting the batteries.

Page 4

How to call up a menu and how to select a function, a setting or an option.



Page 5

Installation

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Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

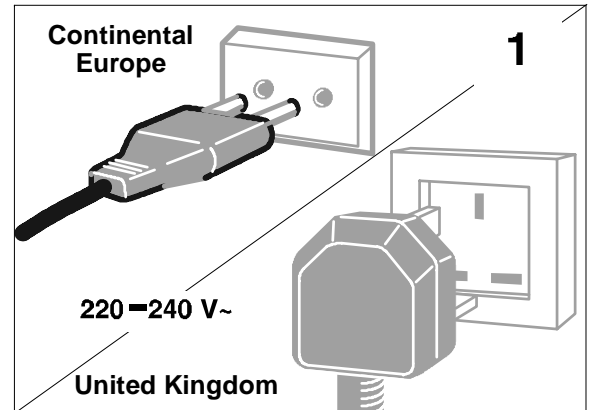
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

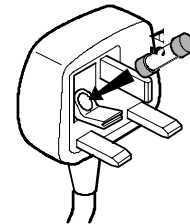
The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

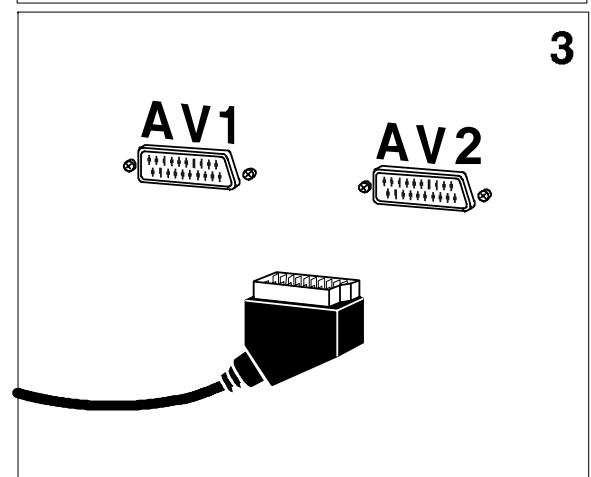
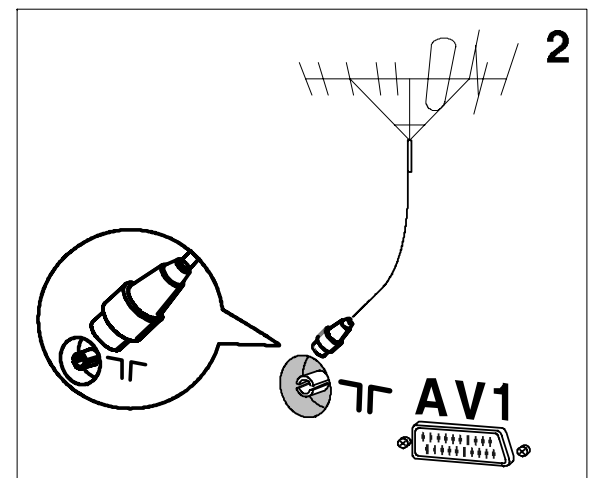
When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.



The plug is fitted with a fuse which protects your television. If your television does not work, the fuse may be blown. In this case, replace it with an identical 5 Amp ASTA or Ir BSI (BS 1362) certified fuse.



Note: the mains lead of your television is fitted with a moulded plug. This lead contains all the safety equipment, so you are advised when replacing it not to use a non-specific commercially-available model.



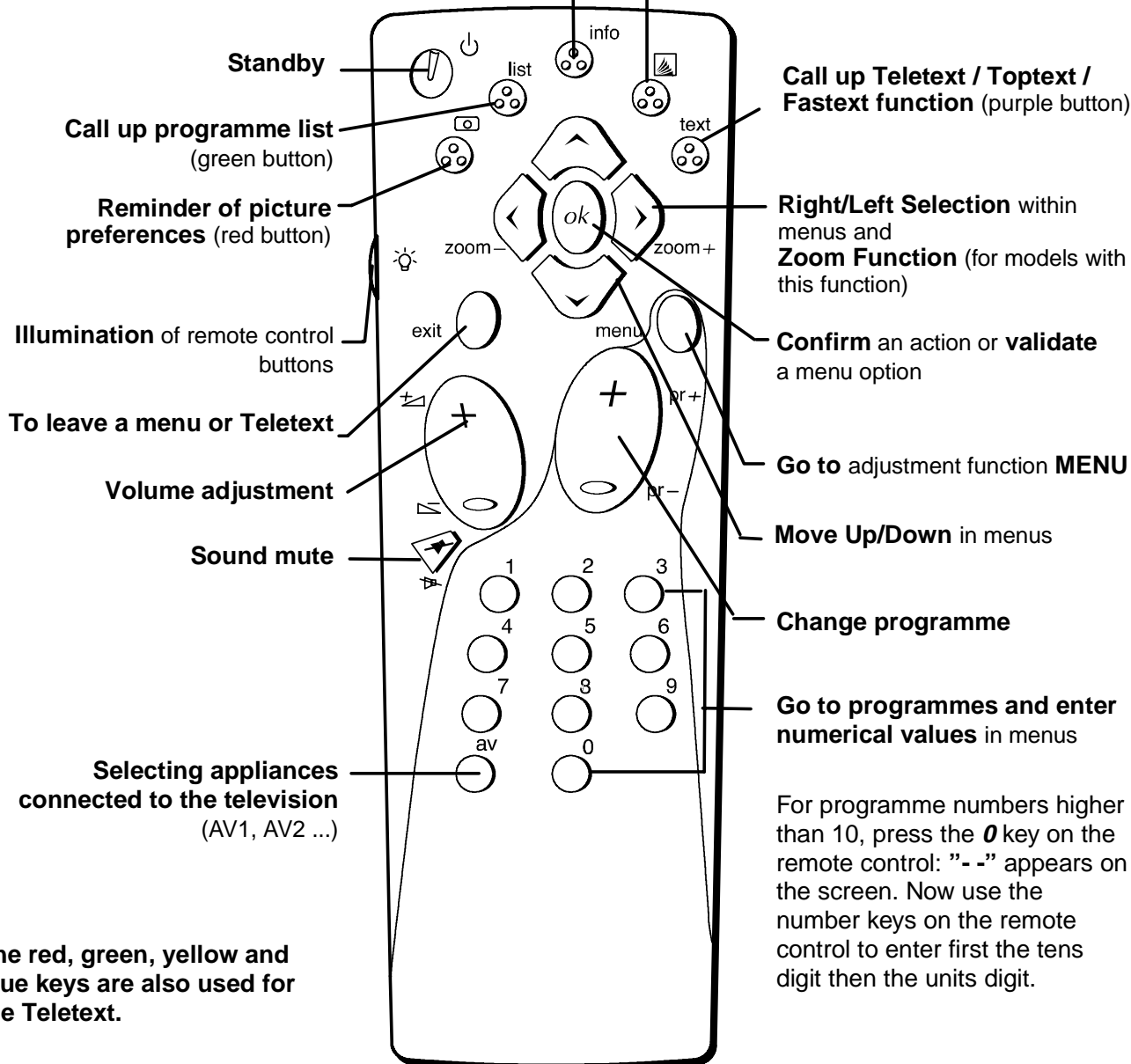
GB

Remote control

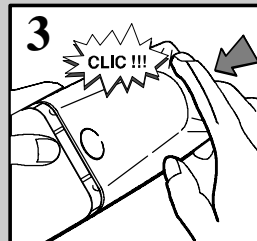
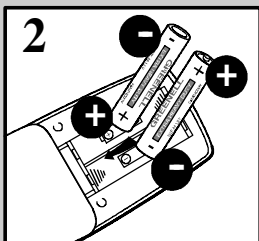
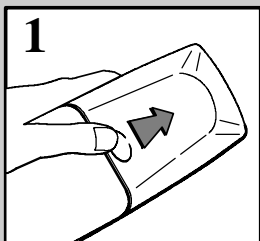
Display of channel, time, sound
(yellow button) (and zoom for models with zoom)

This key is active only when using the Teletext (blue key)

GB



The red, green, yellow and blue keys are also used for the Teletext.

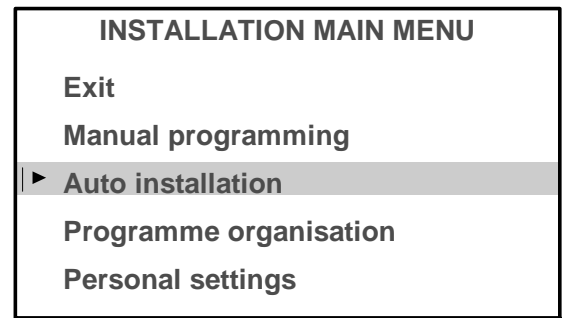


Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

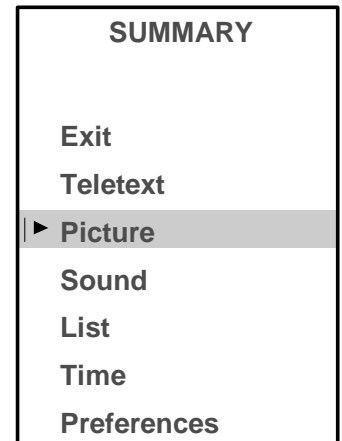
If there is no menu displayed on the screen, press and hold the **menu** key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.



GB

Calling up the Settings summary

Press and release the **menu** key on the remote control to display the list of menus available for using your television functions or adjusting your television



Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the **ok** key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

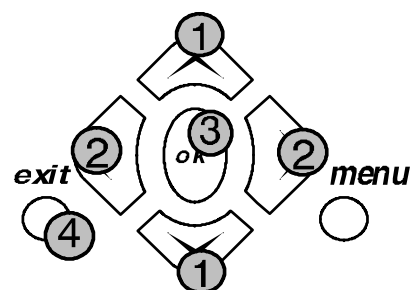
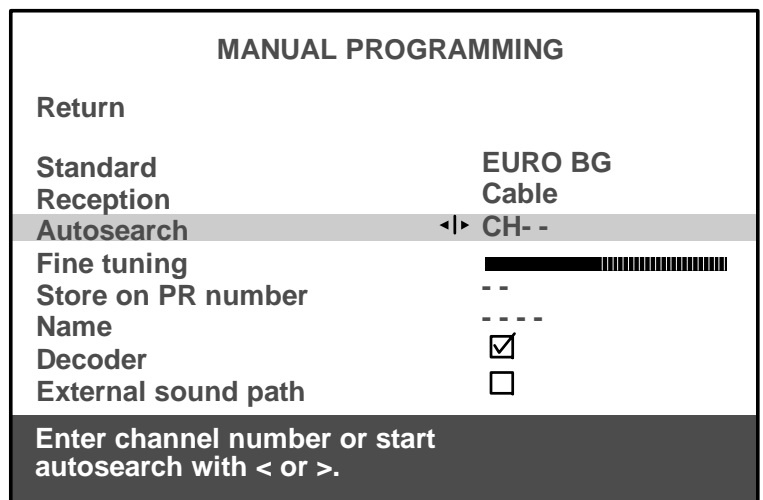
Use the **Left/Right** keys ② to:

- Increase or decrease a value:
for example:
Fine tuning ◀|▶
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶

You can use the **ok** ③ key to:

- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the **exit** ④ key to exit a menu.



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the **pr -** key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using **ok**.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using **ok**.
5. A welcome message is displayed.
6. Run the automatic installation sequence using **ok**.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes. A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press **ok** and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing **exit** then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.

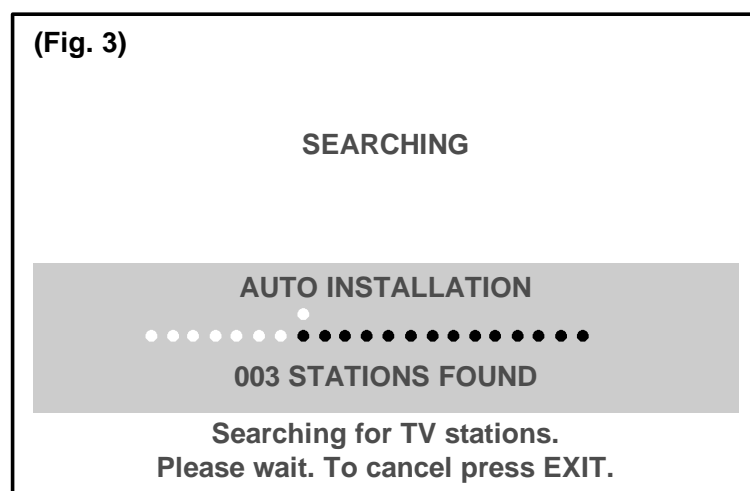
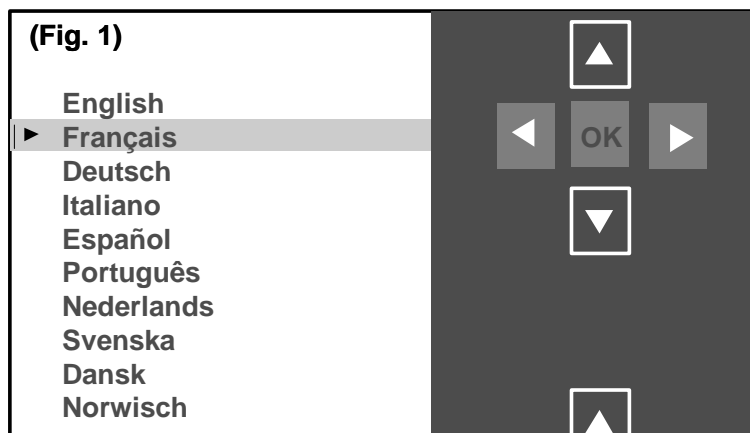
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

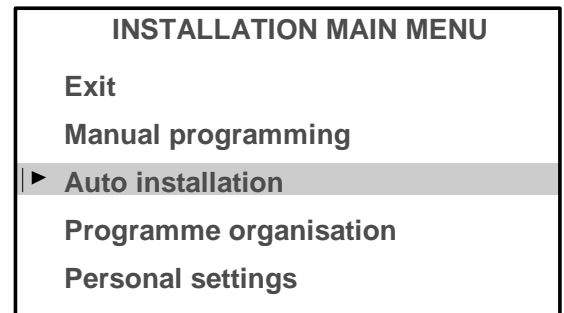
The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

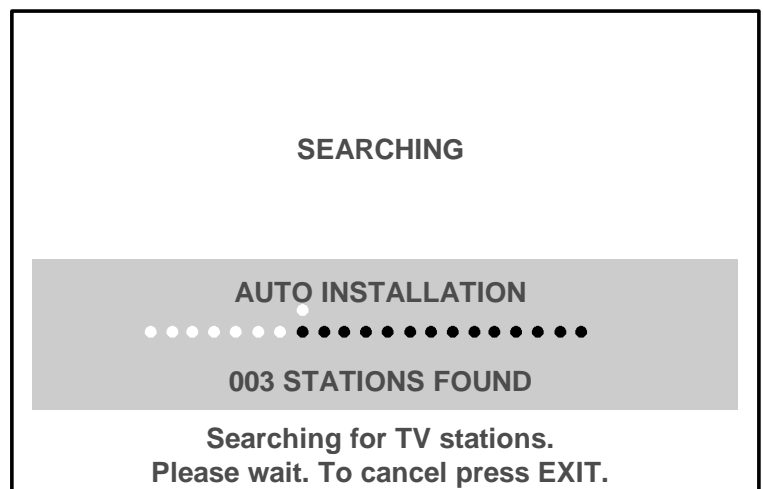
1. Press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using **ok**.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the **ok** key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing **exit**, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION** menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
▶ Programme organisation
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program..**
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program..**
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION		10	MTV
		11	FR2
		12	TF1
		13	EURO
		14	CH40
		15	CC01
		16	ARTE
		17	CART
		18	----
		19	ARD
Return			
Select program.	◀▶ 13		
Swap with PR.	--		
Change pr. name	EURO		
Delete program.	13		
Select programme number using PR-/PR+ or </> or 0 to 9 keys.			

Select the line marked **Return** to return to the previous menu.

Manual programming

The manual installation function is useful if some programmes have not been installed even after AUTOMATIC INSTALLATION.

1. Press and hold **menu**, the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Manual programming**.
3. Display the menu using **ok**.
4. Now continue by following the messages at the bottom of the screen. For further details, read the information below.

Standard :

Select the standard using **Left/Right** keys that corresponds to your country from the list of standards.

The number of standards proposed will differ from one model to another.

France	for France and Luxemburg
DKK'	eg. for Eastern Europe and the Middle-East
I	for the United Kingdom and Ireland
Euro BG	for Western Europe

Reception :

Your television can pick up channels either via an aerial (RF channels) or via a cable network. Certain cable networks use the same frequencies as the RF channels. If this is the case, you must select **Aerial** instead of **Cable**.

Autosearch :

Enter the programme number if you know it. If not, search using the **Left/Right** keys. Your television will stop at the first channel it tunes into. If you wish to memorize it, go to the line marked **Store on PR number**. If not, resume the search using the **Left/Right** keys.

Fine tuning :

You can use this to improve the picture if the transmitter frequency is out of adjustment. Use the **Left/Right** keys to obtain the best possible picture and sound.

Store on PR number :

Enter the programme number you wish to give the channel (e.g.: 01 for BBC1). Memorise using **ok**.

Name :

If the station has been identified by the transmitter, its name will be inscribed automatically. You can change the proposed name or enter it if it has not already been identified. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the character you desire.

Decoder :

Use the **Left/Right** keys to tick the box if the channel is coded and if a decoder is connected to the AV1 jack.

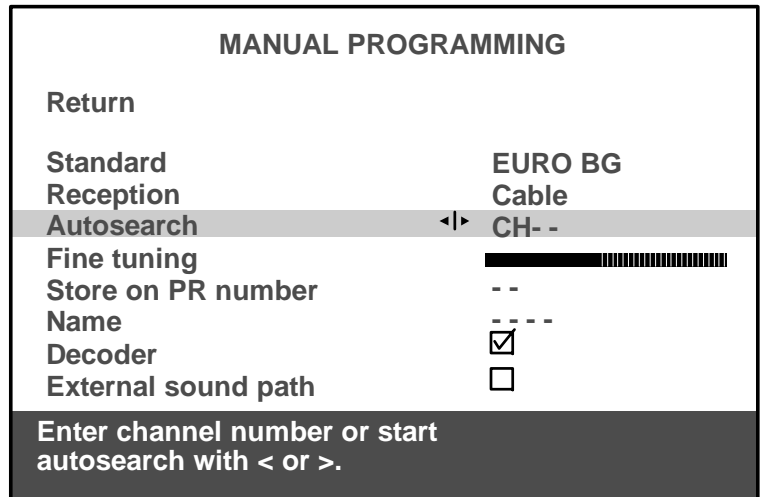
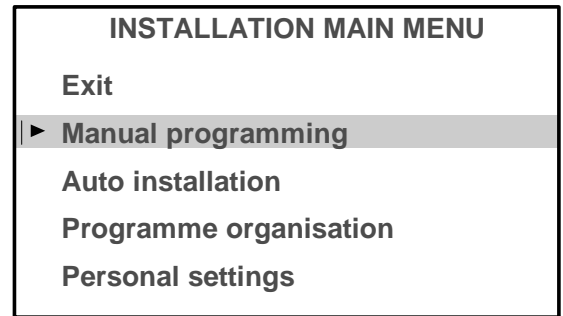
External sound path :

Switch on your decoder. If the sound is coded or if you have no sound, activate or deactivate the box as required using the **Left/Right** keys.



*Once you have made all the adjustments you wish to a programme, go to **Store on PR number** and press **ok** to memorise these. Then move on to the next channel.*

Once you have completed your Manual Programming, exit the menu using **exit**.



Select the line marked **Return** to return to the previous

Personal settings

1. Press and hold the **menu** key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the **info** key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using **exit**.

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
Programme organisation
▶ Personal settings

PERSONAL SETTINGS

Return
Menu language English
Country UK
Auto volume level
AV1 name VCR
AV2 name ----
AV3 name CAMC

Prog. to be used for reference time ◀▶ 06 13:15


Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the **menu** key on the remote control. Select **Picture**. Validate using **OK**. The **PICTURE** menu is displayed.

 *Select and set the proposed options. Use the information below to help you.*

Brightness, Colour, Contrast, Sharpness:

Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).


Exit the menu using **exit**.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.


Sound Settings

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Sound**. Validate using **ok**. The **SOUND** menu is displayed.

 *Select and set the proposed options. Use the information below to help you.*

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.


 *Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.*

Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the **Left/Right** keys.

The choices available to you depend on your television model and the type of sound. Magic and Dolby Virtual modes are only available in stereo on TV's equipped with Virtual Dolby Surround.

 *Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.*


Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :

 *This line appears only if you have selected Dolby Virtual on the Sound mode line.*

Select this line and adjust the surround effect to suit you.

Exit the menu using **exit**.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode	Effect
Normal :	reproduces the original sound (mono or stereo).
Wide :	gives a stereo effect on mono sounds.
Stereo wide :	accentuates the stereo effect.
Magic :	accentuates the stereo effects and adds echo.
Dolby Virtual :	Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

“Dolby”, “Pro Logic” and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the *menu* key on the remote control. Select the line marked **Time**. Validate using *ok*. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.


Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using *exit*.

Set the television to standby using the  key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	<input checked="" type="checkbox"/>
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	<input type="checkbox"/>

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control
or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.

- Validate using **ok**.

- Exit the menu using **exit**.

LIST	
Exit	
▶ 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE TV
06	M6
07	CNN
08	PREM
09	EURO
Page -/+ ◀/▶	
Programme: 0 - 9	

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume +/- keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information


Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fasttext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select "- - -" using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fasttext functions:

If the Teletext you receive is Fasttext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the **text** key.

To exit Teletext, press **exit** or **text**.

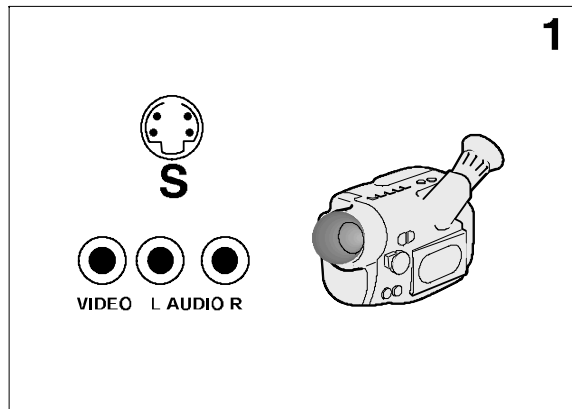
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



*To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.*

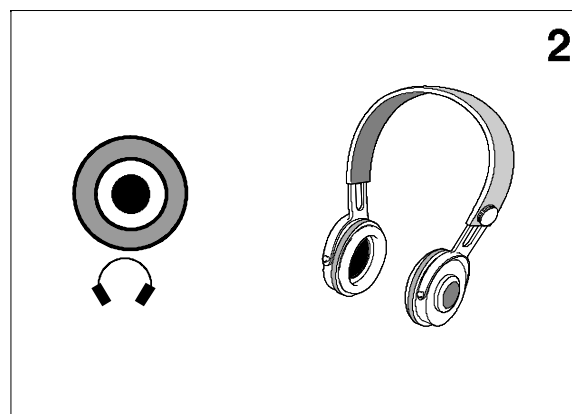


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.




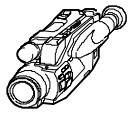
* on models equipped with this function

Other Possibilities

Copying a cassette:

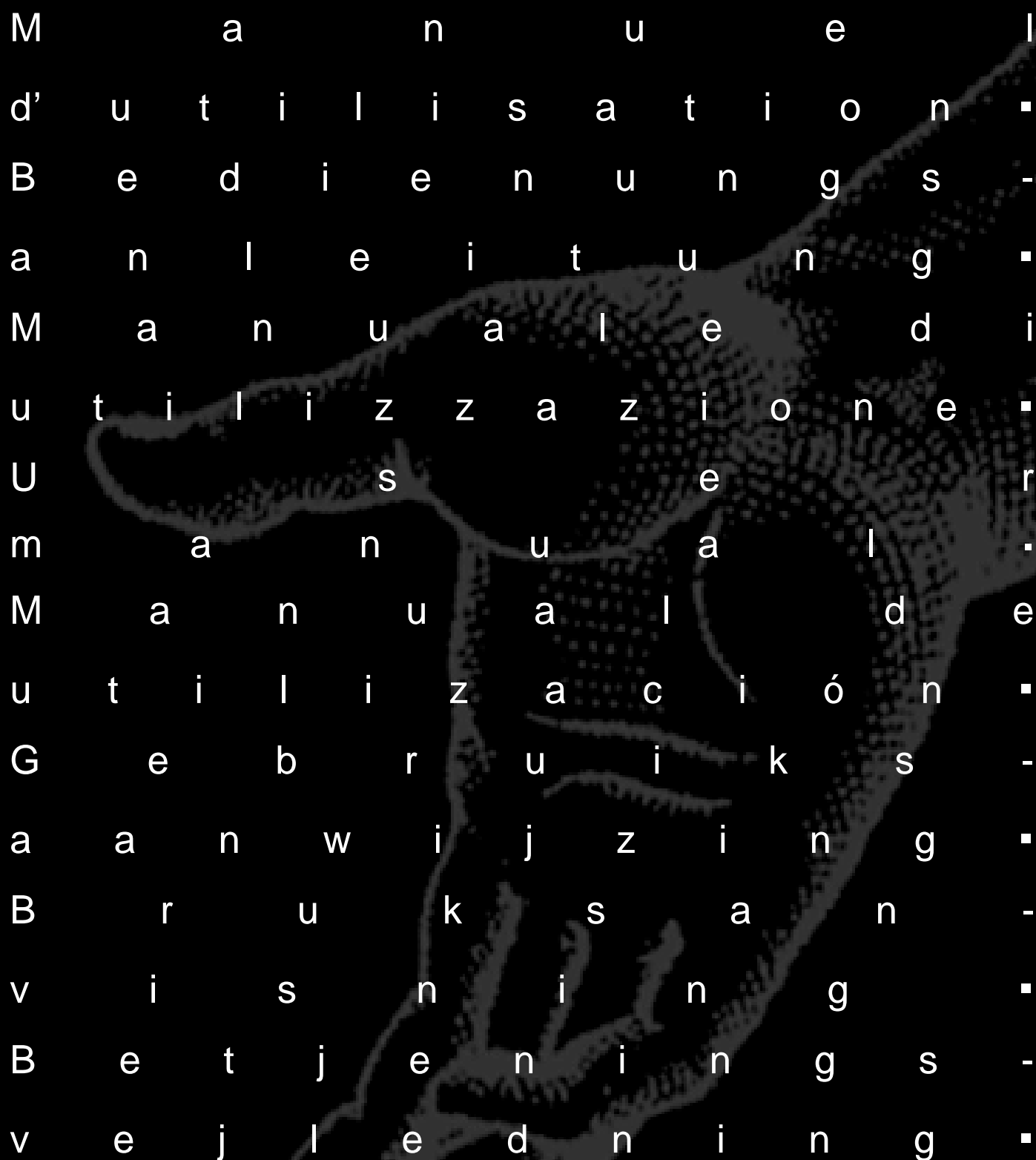
Plug the VCR **you wish to record to** into the SCART socket AV2.

Plug the appliance **you wish to copy from** as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
 VCR	Peripheral AV1	VCR ou Camcorder	AV2	AV1
 Camcorder	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.



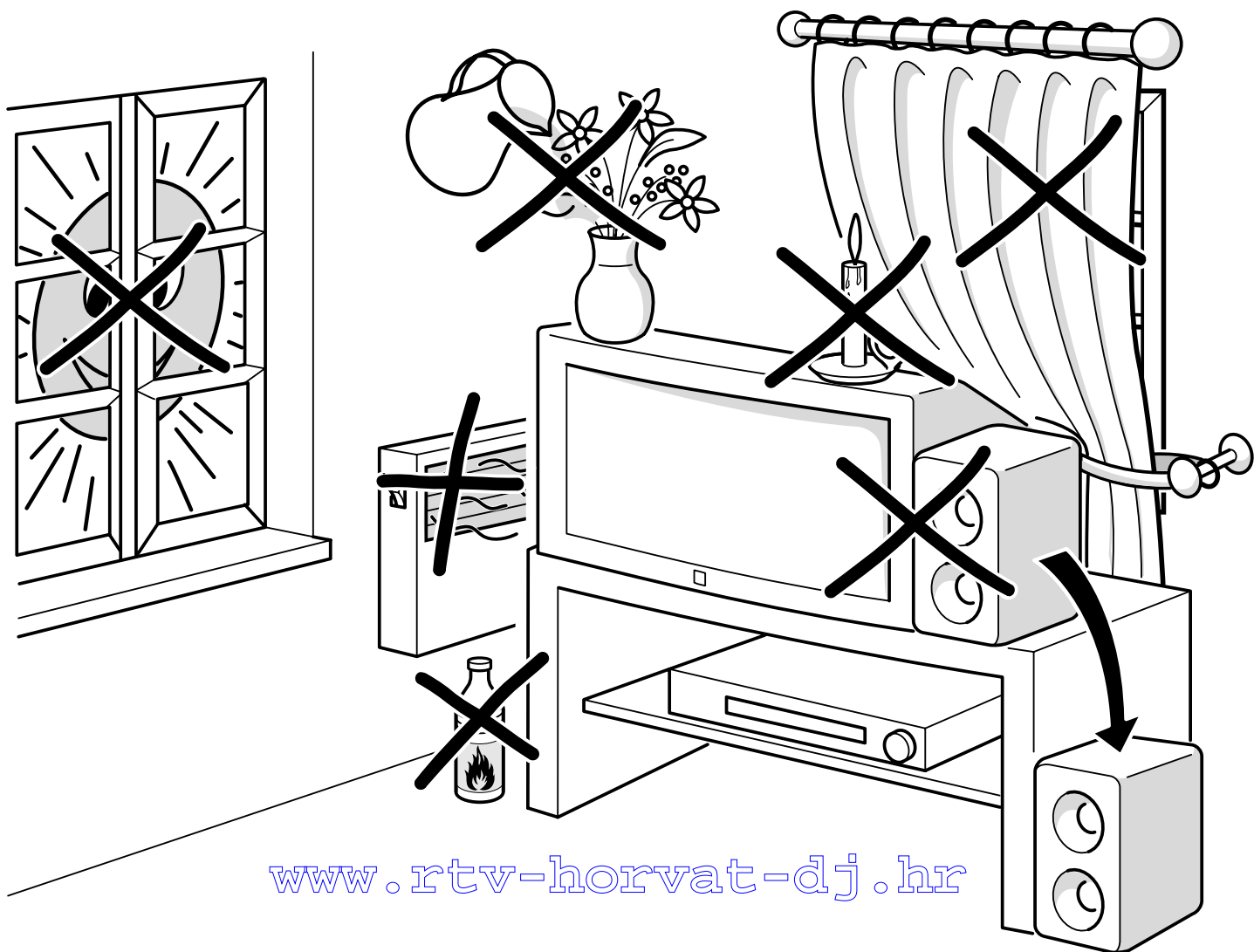
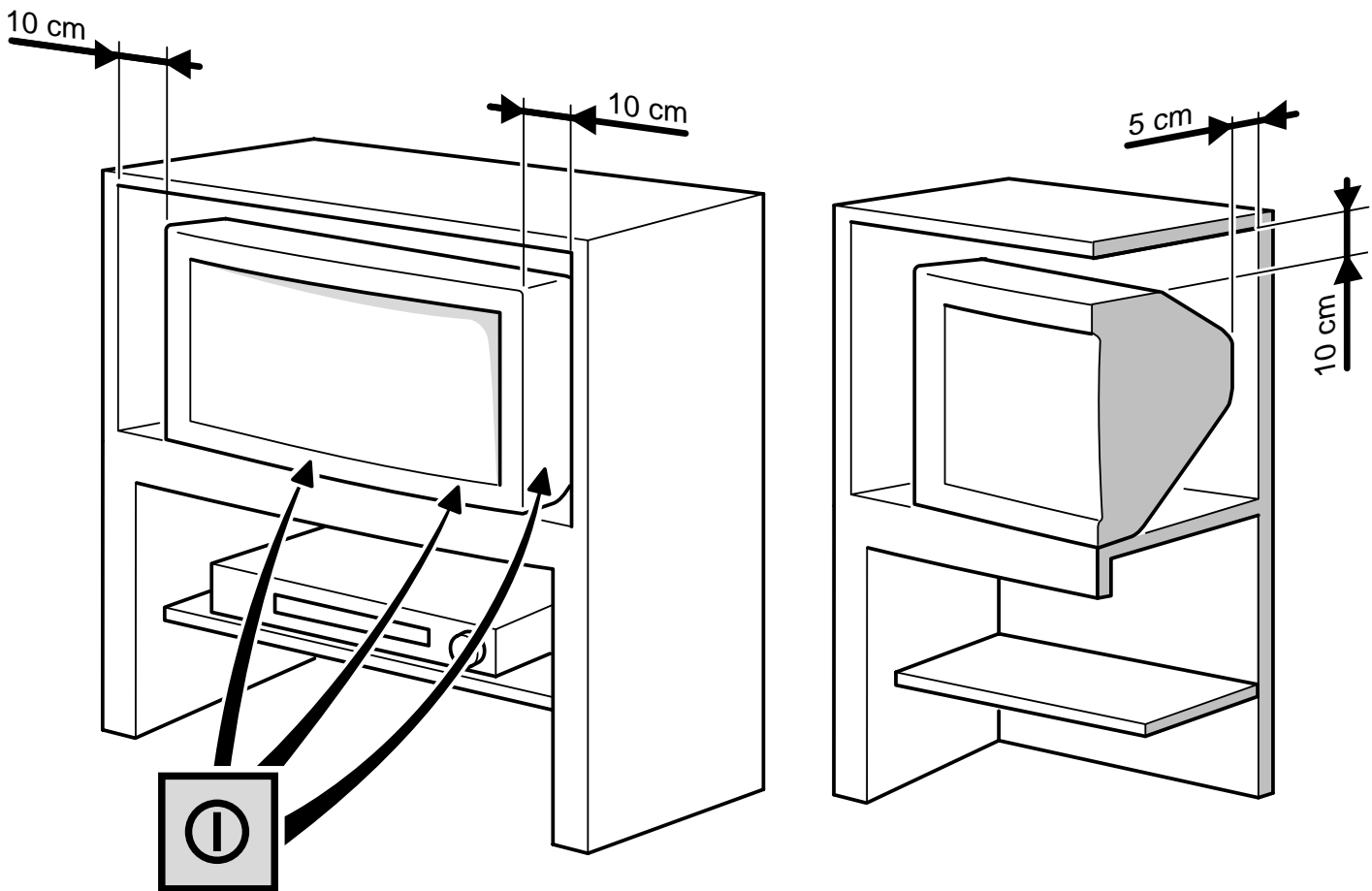
M a n u e l
d' u t i l i s a t i o n ▪
B e d i e n u n g s -
a n l e i t u n g ▪
M a n u a l e d i
u t i l i z a z i o n e ▪
U s e r
m a n u a l ▪
M a n u a l d e
u t i l i z a c i ó n ▪
G e b r u i k s -
a a n w i j z i n g ▪
B r u k s a n -
v i s n i n g ▪
B e t j e n i n g s -
v e j l e d n i n g ▪

TELEFUNKEN

DF321E / DF421E

F o l h e t o d e
u t i l i z a ç ã o ▪

www.rtv-horvat-dj.hr



About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation. A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

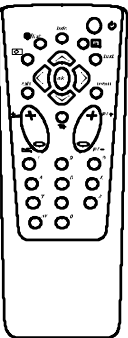
Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.

This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.

Contents

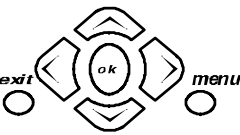
GB



Using the remote control and fitting the batteries.

Page 4

How to call up a menu and how to select a function, a setting or an option.



Page 5

Installation

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Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

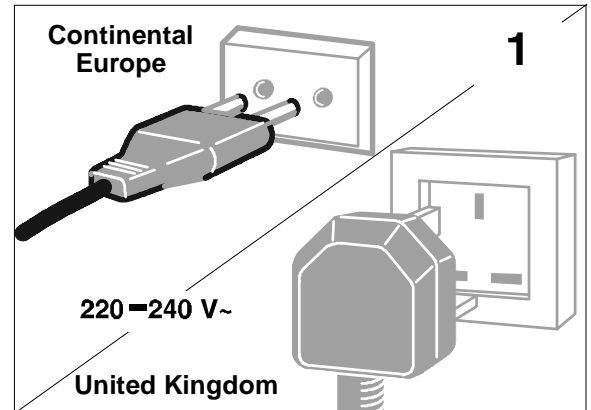
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

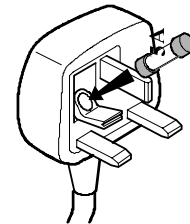
The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

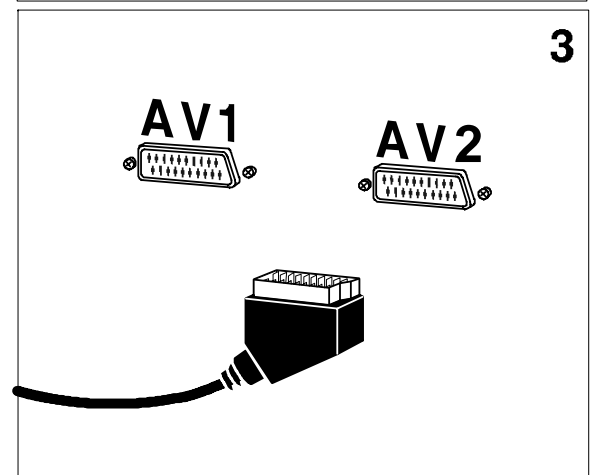
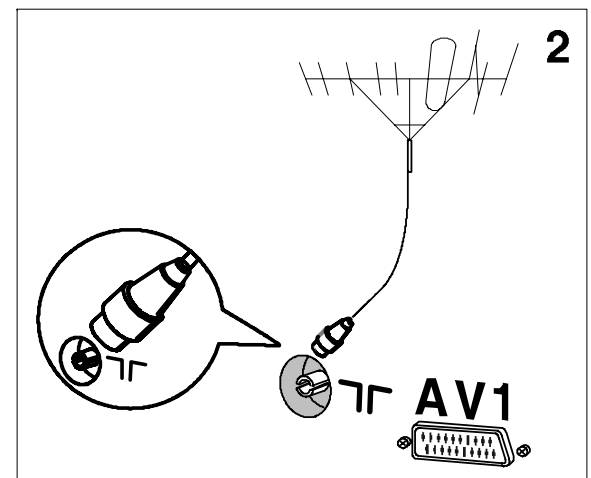
When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.



The plug is fitted with a fuse which protects your television. If your television does not work, the fuse may be blown. In this case, replace it with an identical 5 Amp ASTA or Ir BSI (BS 1362) certified fuse.



Note: the mains lead of your television is fitted with a moulded plug. This lead contains all the safety equipment, so you are advised when replacing it not to use a non-specific commercially-available model.



Remote control

Display of channel, time, sound (yellow button) (and zoom for models with zoom)

This key is active only when using the Teletext (blue key)

Call up programme list (green button)

Standby

Reminder of picture preferences (red button)

Call up Teletext / Toptext / Fastext function (purple button)

Confirm an action or validate a menu option

Right/Left Selection within menus and Zoom Function (for models with this function)

To leave a menu or Teletext

Go to adjustment function MENU

Volume adjustment

Move Up/Down in menus

Sound mute

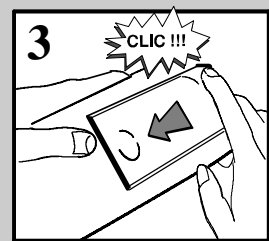
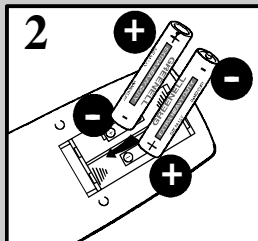
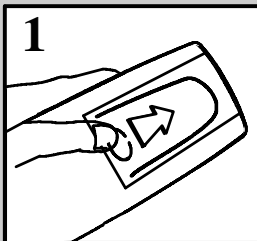
Change programme

Selecting appliances connected to the television (AV1, AV2 ...)

Go to programmes and enter numerical values in menus

The red, green, yellow and blue keys are also used for the Teletext.

For programme numbers higher than 10, press the 0 key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.

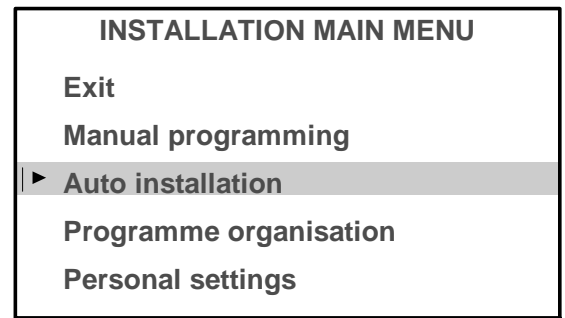


Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

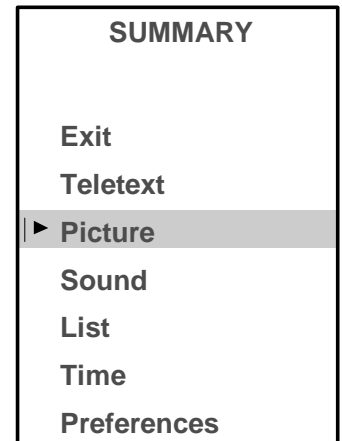
If there is no menu displayed on the screen, press and hold the **menu** key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.



GB

Calling up the Settings summary

Press and release the **menu** key on the remote control to display the list of menus available for using your television functions or adjusting your television



Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the **ok** key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

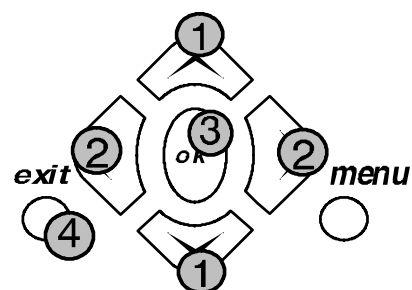
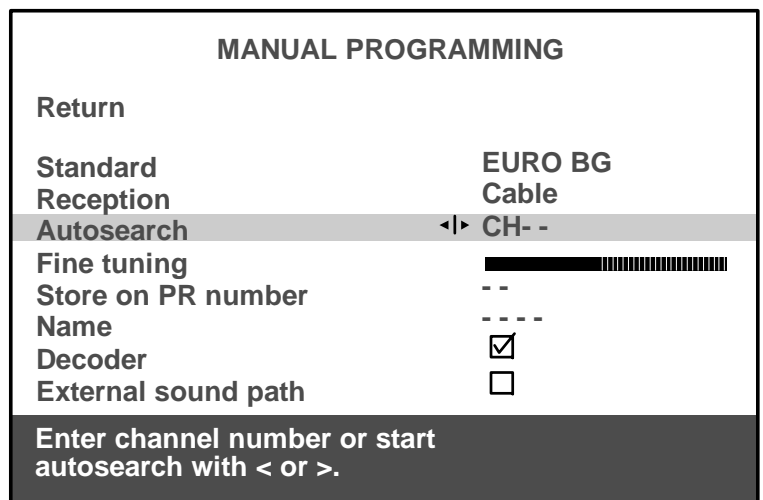
Use the **Left/Right** keys ② to:

- Increase or decrease a value:
for example:
Fine tuning ◀|▶
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶

You can use the **ok** ③ key to:

- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the **exit** ④ key to exit a menu.



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the **pr -** key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using **ok**.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using **ok**.
5. A welcome message is displayed.
6. Run the automatic installation sequence using **ok**.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes. A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press **ok** and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing **exit** then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.

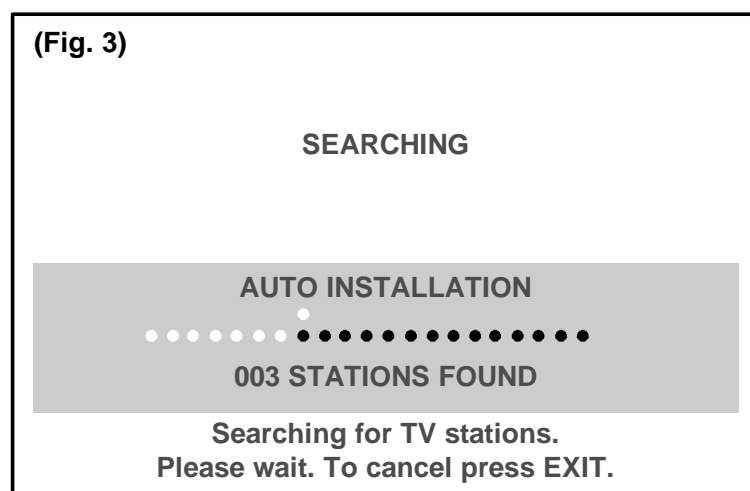
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

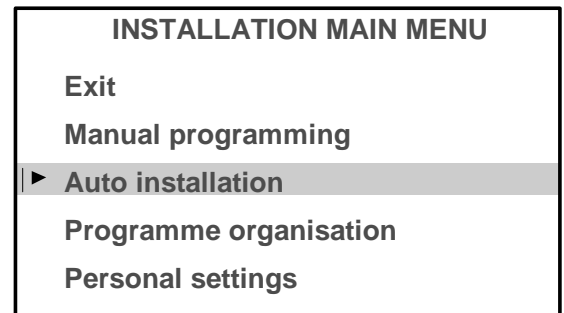
The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

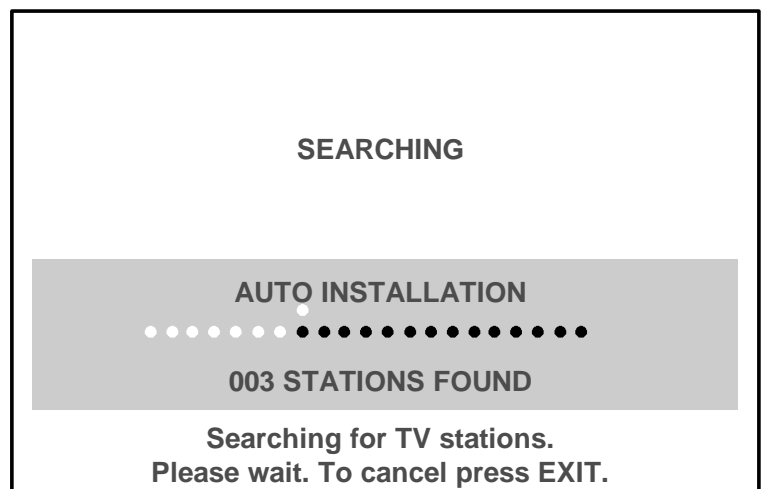
1. Press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using **ok**.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the **ok** key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing **exit**, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION** menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
▶ Programme organisation
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program..**
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program..**
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION		10	MTV
		11	FR2
		12	TF1
		13	EURO
		14	CH40
		15	CC01
		16	ARTE
		17	CART
		18	----
		19	ARD
Return			
Select program.	◀▶ 13		
Swap with PR.	--		
Change pr. name	EURO		
Delete program.	13		
Select programme number using PR-/PR+ or </> or 0 to 9 keys.			

Select the line marked **Return** to return to the previous menu.

Manual programming

The manual installation function is useful if some programmes have not been installed even after AUTOMATIC INSTALLATION.

1. Press and hold **menu**, the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Manual programming**.
3. Display the menu using **ok**.
4. Now continue by following the messages at the bottom of the screen. For further details, read the information below.

Standard :

Select the standard using **Left/Right** keys that corresponds to your country from the list of standards.

The number of standards proposed will differ from one model to another.

France	for France and Luxemburg
DKK'	eg. for Eastern Europe and the Middle-East
I	for the United Kingdom and Ireland
Euro BG	for Western Europe

Reception :

Your television can pick up channels either via an aerial (RF channels) or via a cable network. Certain cable networks use the same frequencies as the RF channels. If this is the case, you must select **Aerial** instead of **Cable**.

Autosearch :

Enter the programme number if you know it. If not, search using the **Left/Right** keys. Your television will stop at the first channel it tunes into. If you wish to memorize it, go to the line marked **Store on PR number**. If not, resume the search using the **Left/Right** keys.

Fine tuning :

You can use this to improve the picture if the transmitter frequency is out of adjustment. Use the **Left/Right** keys to obtain the best possible picture and sound.

Store on PR number :

Enter the programme number you wish to give the channel (e.g.: 01 for BBC1). Memorise using **ok**.

Name :

If the station has been identified by the transmitter, its name will be inscribed automatically. You can change the proposed name or enter it if it has not already been identified. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the character you desire.

Decoder :

Use the **Left/Right** keys to tick the box if the channel is coded and if a decoder is connected to the AV1 jack.

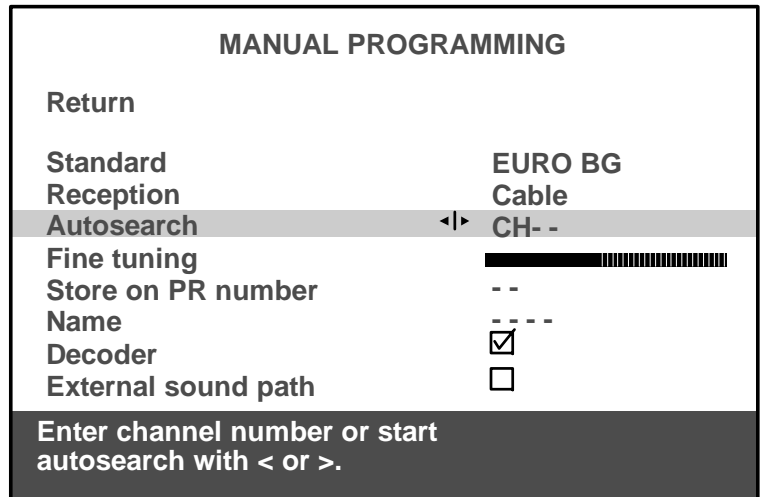
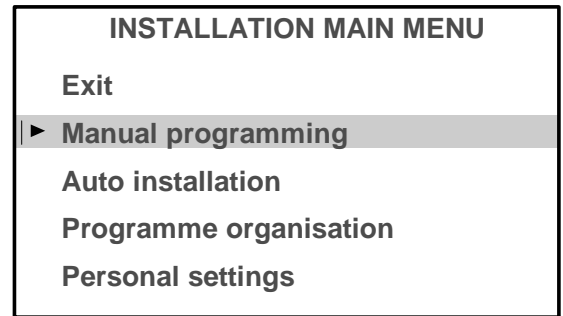
External sound path :

Switch on your decoder. If the sound is coded or if you have no sound, activate or deactivate the box as required using the **Left/Right** keys.



*Once you have made all the adjustments you wish to a programme, go to **Store on PR number** and press **ok** to memorise these. Then move on to the next channel.*

Once you have completed your Manual Programming, exit the menu using **exit**.



Select the line marked **Return** to return to the previous

Personal settings

1. Press and hold the **menu** key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the **info** key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using **exit**.

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
Programme organisation
▶ Personal settings

PERSONAL SETTINGS

Return
Menu language English
Country UK
Auto volume level
AV1 name VCR
AV2 name ----
AV3 name CAMC

Prog. to be used for reference time ◀▶ 06 13:15


Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the **menu** key on the remote control. Select **Picture**. Validate using **OK**. The **PICTURE** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Brightness, Colour, Contrast, Sharpness:

Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).


Exit the menu using **exit**.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.


Sound Settings

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Sound**. Validate using **ok**. The **SOUND** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.


 Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.

Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the **Left/Right** keys.

The choices available to you depend on your television model and the type of sound. **Magic** and **Dolby Virtual** modes are only available in stereo on TV's equipped with Virtual Dolby Surround.

 Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.


Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :

 This line appears only if you have selected **Dolby Virtual** on the **Sound mode** line.

Select this line and adjust the surround effect to suit you.

Exit the menu using **exit**.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode	Effect
Normal :	reproduces the original sound (mono or stereo).
Wide :	gives a stereo effect on mono sounds.
Stereo wide :	accentuates the stereo effect.
Magic :	accentuates the stereo effects and adds echo.
Dolby Virtual :	Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

"Dolby", "Pro Logic" and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Time**. Validate using **ok**. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.

Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using **exit**.

Set the television to standby using the **(i)** key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	<input checked="" type="checkbox"/>
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	<input type="checkbox"/>

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control

or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.

- Validate using **ok**.

- Exit the menu using **exit**.

LIST	
Exit	
▶ 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE TV
06	M6
07	CNN
08	PREM
09	EURO
Page -/+ ◀/▶	
Programme: 0 - 9	

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume +/- keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information


Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fasttext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select "- - -" using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fasttext functions:

If the Teletext you receive is Fasttext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the **text** key.

To exit Teletext, press **exit** or **text**.

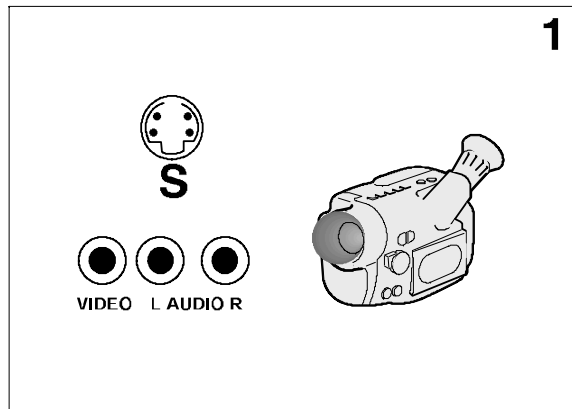
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



*To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.*

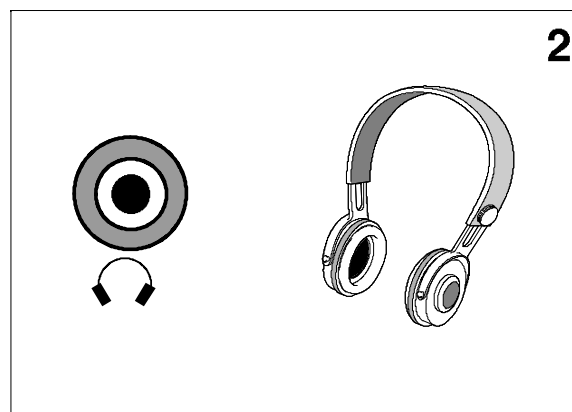


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.




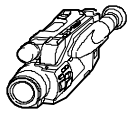
* on models equipped with this function

Other Possibilities

Copying a cassette:

Plug the VCR **you wish to record to** into the SCART socket AV2.

Plug the appliance **you wish to copy from** as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

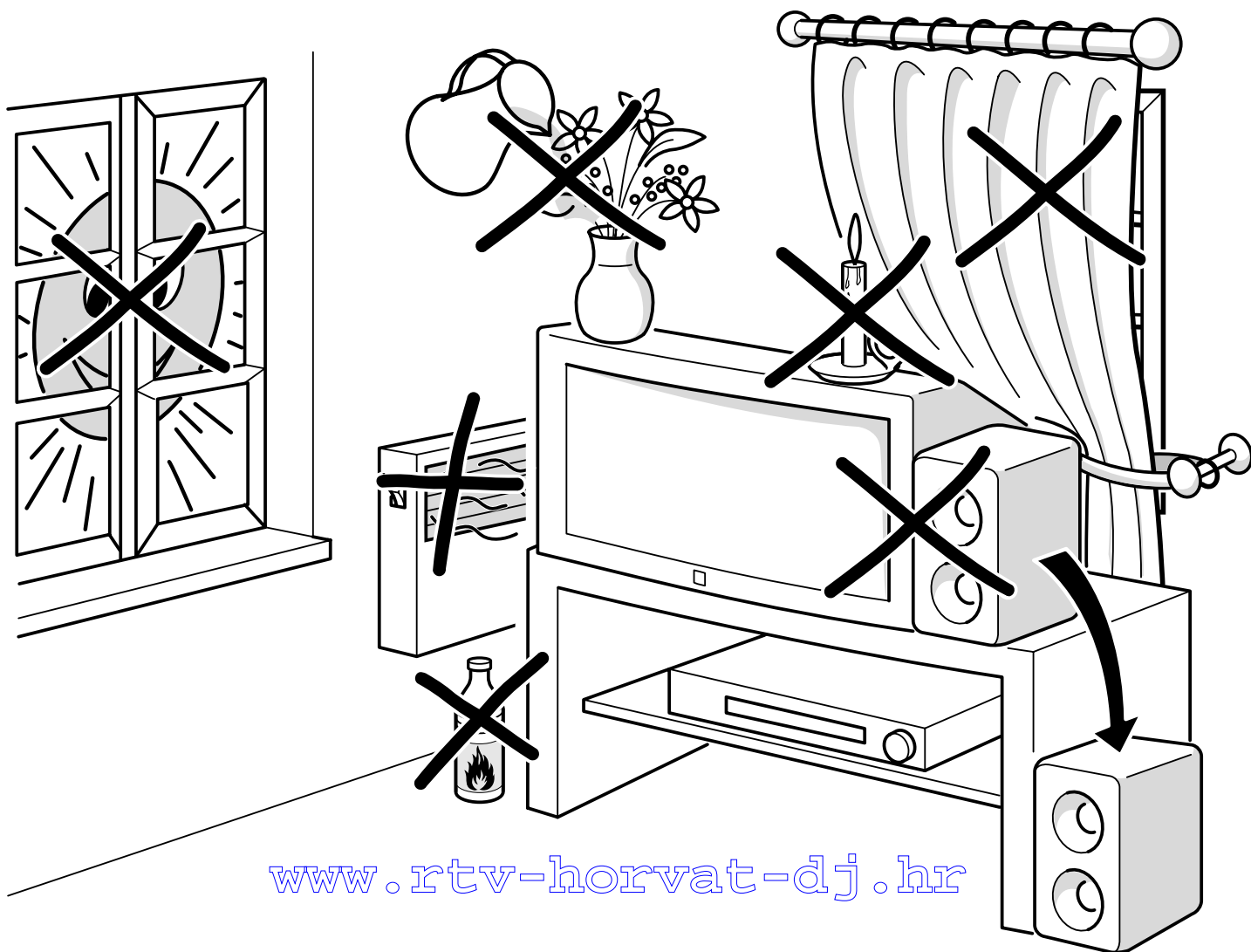
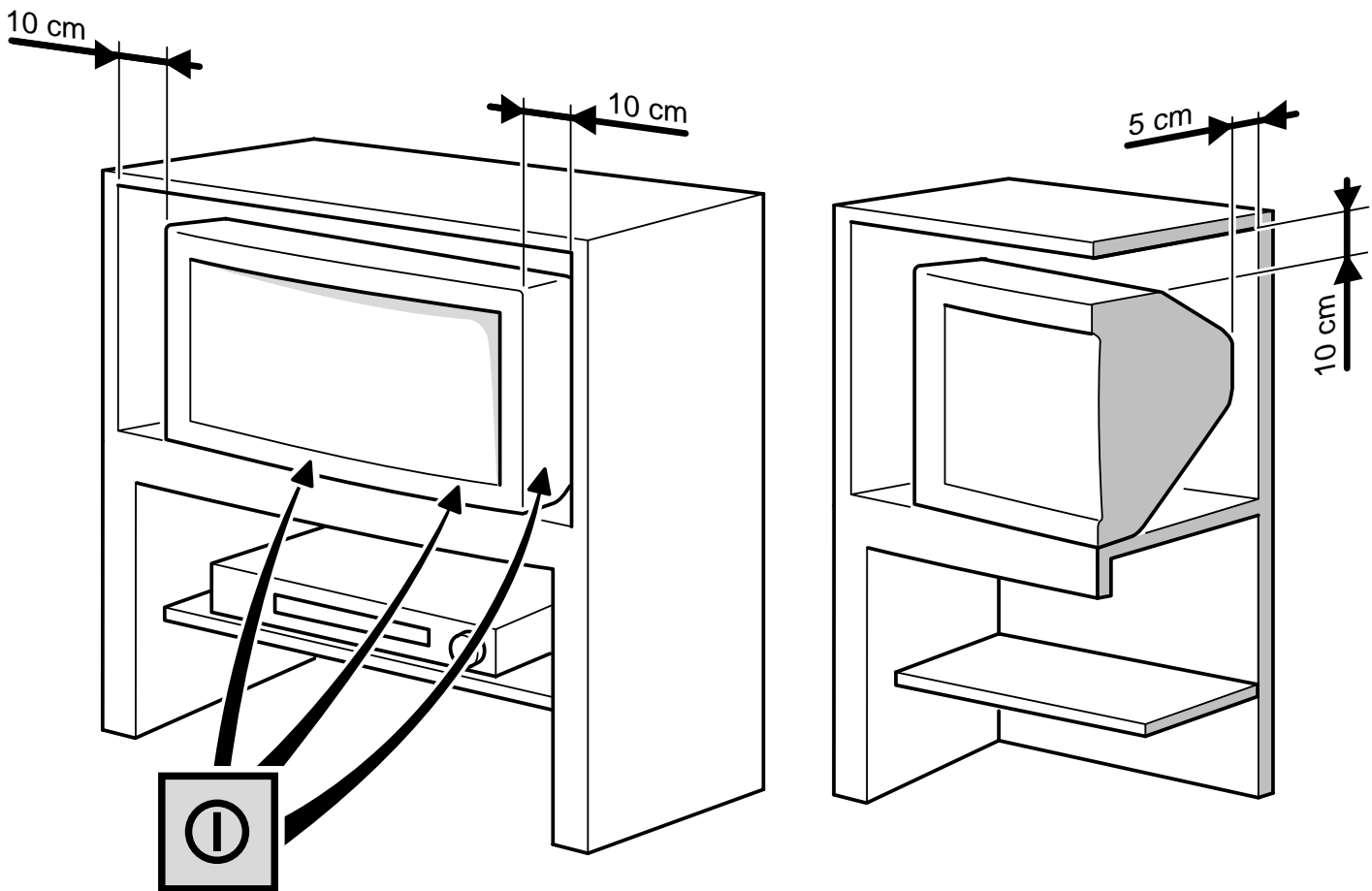
PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
 VCR	Peripheral AV1	VCR ou Camcorder	AV2	AV1
 Camcorder	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.

M a n u e l
d' u t i l i s a t i o n
B e d i e n u n g s -
a n l e i t u n g
M a n u a l e d i
u t i l i z z a z i o n e
U s e r
m a n u a l
M a n u a l d e
u t i l i z a c i ó n
G e b r u i k s -
a a n w i j z i n g
B r u k s a n -
v i s n i n g
B e t j e n i n g s -
v e j l e d n i n g
F o l h e t o d e
u t i l i z a ç ã o

2 8 W S 2 3 E
3 2 W S 2 3 E



About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation. A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

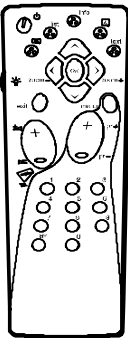
About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.


This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.



Using the remote control and fitting the batteries.

Page 4

How to call up a menu and how to select a function, a setting or an option.



Page 5

Installation

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Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

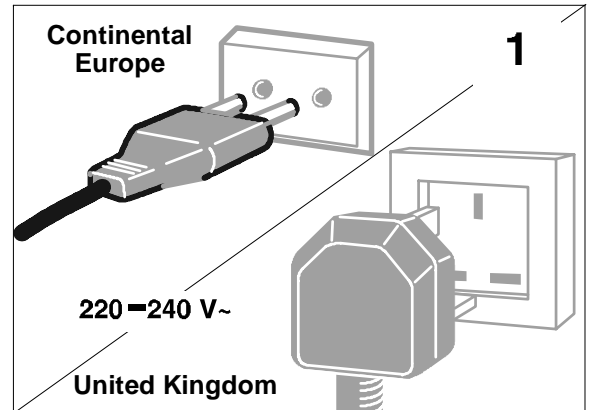
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

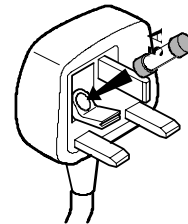
The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

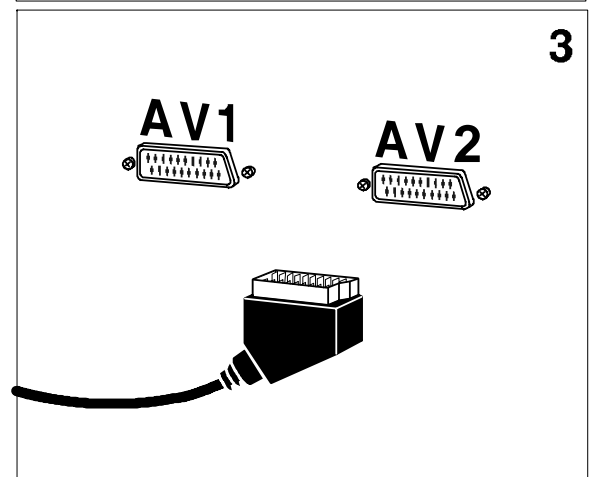
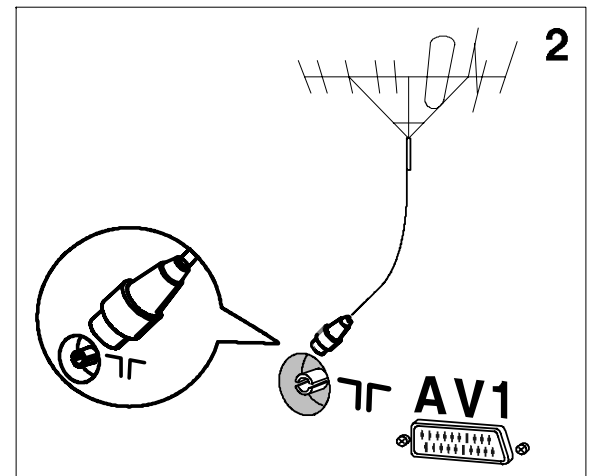
When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.



The plug is fitted with a fuse which protects your television. If your television does not work, the fuse may be blown. In this case, replace it with an identical 5 Amp ASTA or Ir BSI (BS 1362) certified fuse.



Note: the mains lead of your television is fitted with a moulded plug. This lead contains all the safety equipment, so you are advised when replacing it not to use a non-specific commercially-available model.



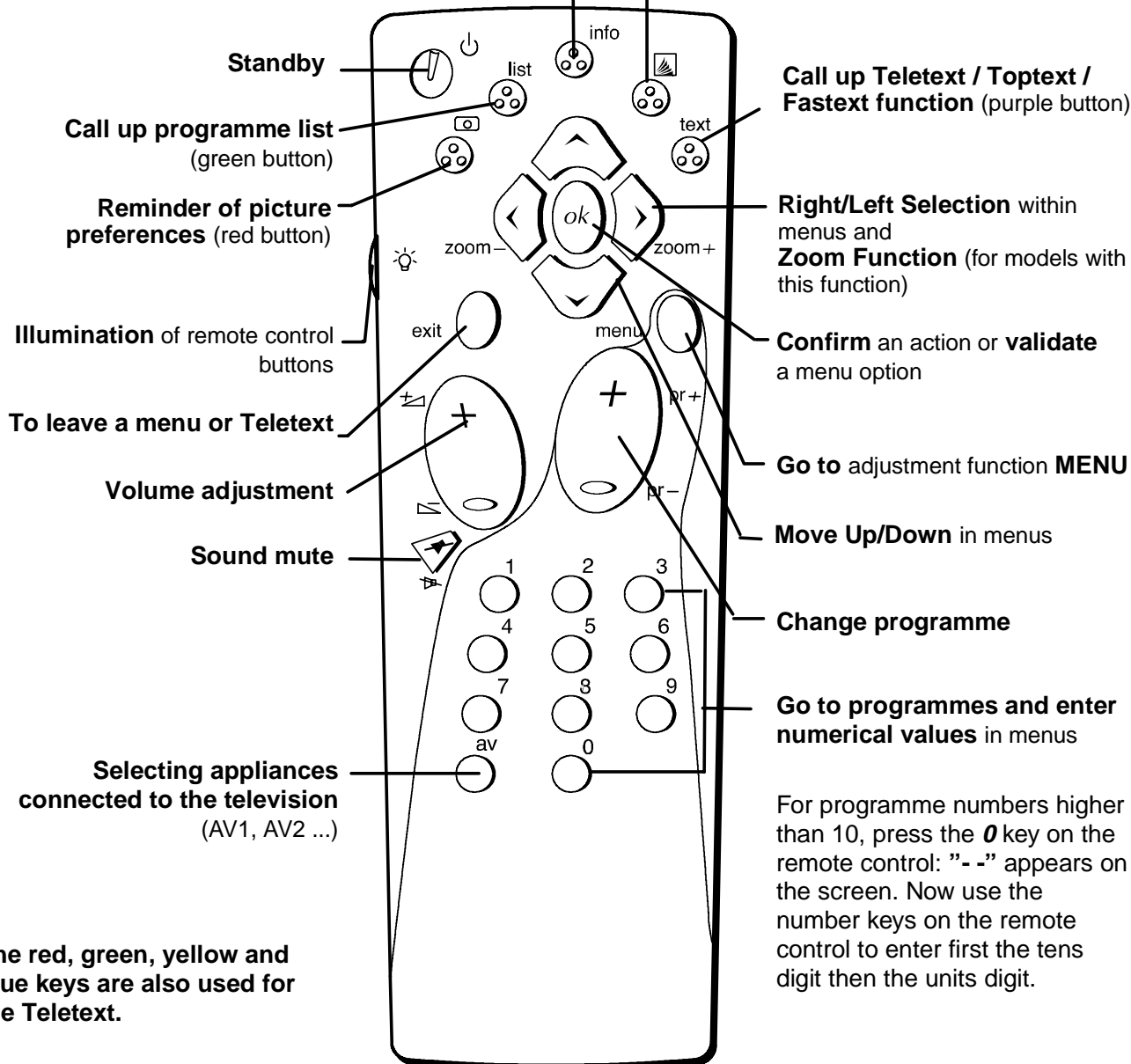
GB

Remote control

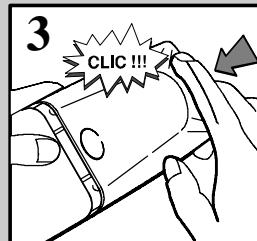
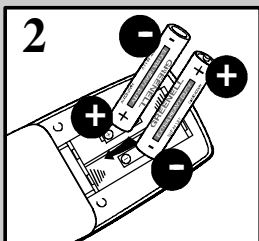
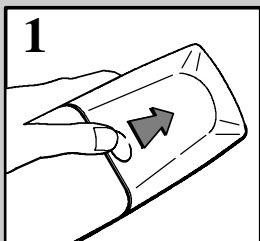
Display of channel, time, sound
(yellow button) (and zoom for models with zoom)

This key is active only when using the Teletext (blue key)

GB



The red, green, yellow and blue keys are also used for the Teletext.

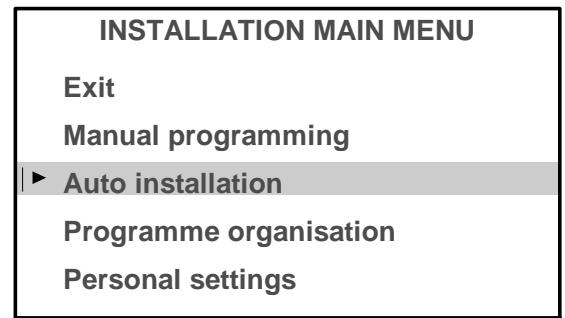


Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

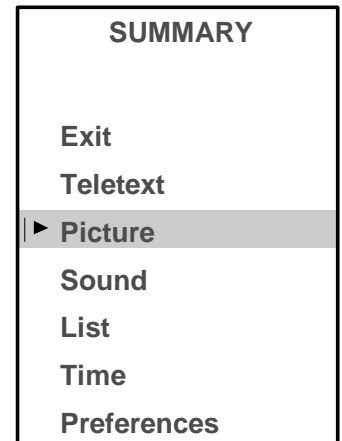
If there is no menu displayed on the screen, press and hold the **menu** key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.



GB

Calling up the Settings summary

Press and release the **menu** key on the remote control to display the list of menus available for using your television functions or adjusting your television



Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the **ok** key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

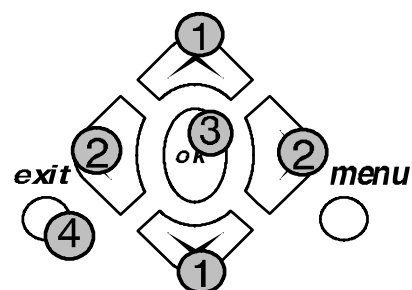
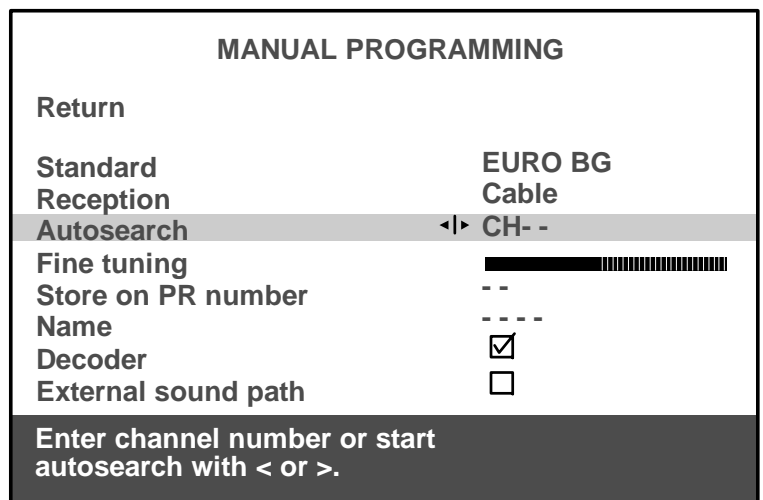
Use the **Left/Right** keys ② to:

- Increase or decrease a value:
for example:
Fine tuning ◀|▶
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶

You can use the **ok** ③ key to:

- Activate or deactivate an option:
for example: Decoder ⇌
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the **exit** ④ key to exit a menu.



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the **pr -** key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using **ok**.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using **ok**.
5. A welcome message is displayed.
6. Run the automatic installation sequence using **ok**.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes. A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press **ok** and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing **exit** then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.

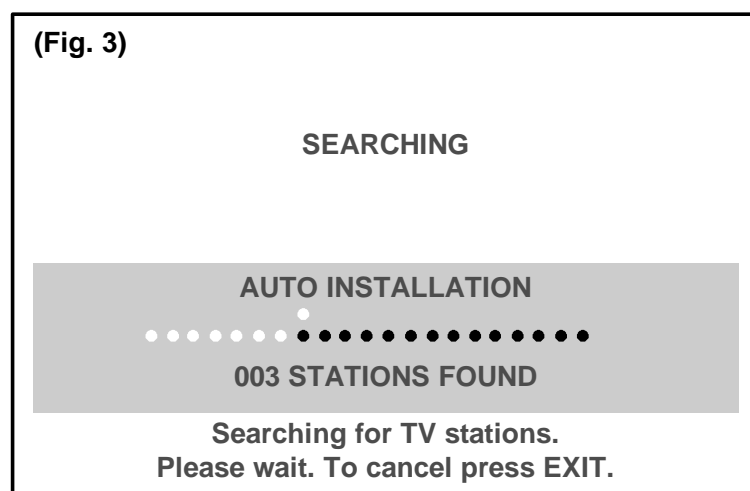
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

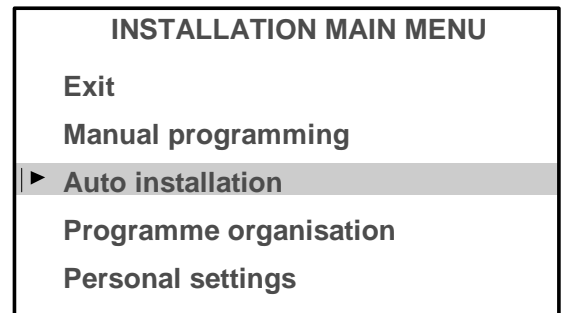
The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

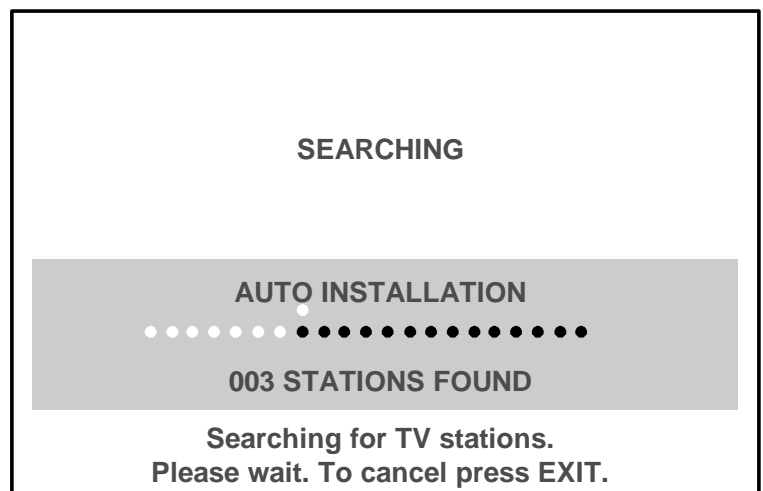
1. Press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using **ok**.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the **ok** key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing **exit**, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the **pr + / pr -** keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION** menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
▶ Programme organisation
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program..**
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program..**
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION		10	MTV
		11	FR2
		12	TF1
		13	EURO
		14	CH40
		15	CC01
		16	ARTE
		17	CART
		18	----
		19	ARD
Return			
Select program.	◀▶ 13		
Swap with PR.	--		
Change pr. name	EURO		
Delete program.	13		
Select programme number using PR-/PR+ or </> or 0 to 9 keys.			

Select the line marked **Return** to return to the previous menu.

Manual programming

The manual installation function is useful if some programmes have not been installed even after AUTOMATIC INSTALLATION.

1. Press and hold **menu**, the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Manual programming**.
3. Display the menu using **ok**.
4. Now continue by following the messages at the bottom of the screen. For further details, read the information below.

Standard :

Select the standard using **Left/Right** keys that corresponds to your country from the list of standards.

The number of standards proposed will differ from one model to another.

France	for France and Luxemburg
DKK'	eg. for Eastern Europe and the Middle-East
I	for the United Kingdom and Ireland
Euro BG	for Western Europe

Reception :

Your television can pick up channels either via an aerial (RF channels) or via a cable network. Certain cable networks use the same frequencies as the RF channels. If this is the case, you must select **Aerial** instead of **Cable**.

Autosearch :

Enter the programme number if you know it. If not, search using the **Left/Right** keys. Your television will stop at the first channel it tunes into. If you wish to memorize it, go to the line marked **Store on PR number**. If not, resume the search using the **Left/Right** keys.

Fine tuning :

You can use this to improve the picture if the transmitter frequency is out of adjustment. Use the **Left/Right** keys to obtain the best possible picture and sound.

Store on PR number :

Enter the programme number you wish to give the channel (e.g.: 01 for BBC1). Memorise using **ok**.

Name :

If the station has been identified by the transmitter, its name will be inscribed automatically. You can change the proposed name or enter it if it has not already been identified. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the character you desire.

Decoder :

Use the **Left/Right** keys to tick the box if the channel is coded and if a decoder is connected to the AV1 jack.

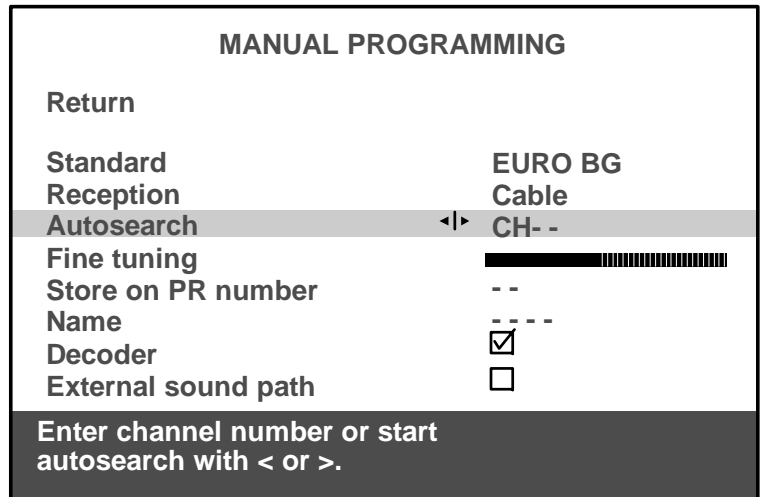
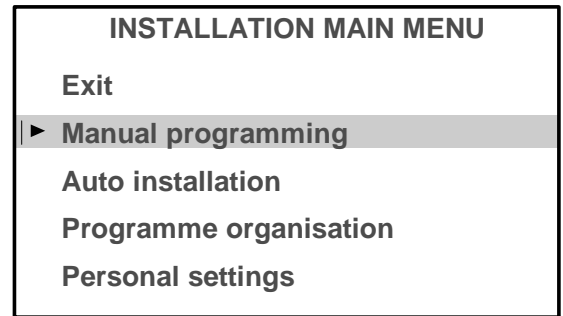
External sound path :

Switch on your decoder. If the sound is coded or if you have no sound, activate or deactivate the box as required using the **Left/Right** keys.



*Once you have made all the adjustments you wish to a programme, go to **Store on PR number** and press **ok** to memorise these. Then move on to the next channel.*

Once you have completed your Manual Programming, exit the menu using **exit**.



Select the line marked **Return** to return to the previous

Personal settings

1. Press and hold the **menu** key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the **info** key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using **exit**.

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
Programme organisation
▶ Personal settings

PERSONAL SETTINGS

Return
Menu language English
Country UK
Auto volume level
AV1 name VCR
AV2 name ----
AV3 name CAMC

Prog. to be used for reference time ◀▶ 06 13:15


Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the **menu** key on the remote control. Select **Picture**. Validate using **OK**. The **PICTURE** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Brightness, Colour, Contrast, Sharpness:

Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).


Exit the menu using **exit**.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.

Sound Settings

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **Sound**. Validate using **ok**. The **SOUND** menu is displayed.

 Select and set the proposed options. Use the information below to help you.

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.



Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the **Left/Right** keys.

The choices available to you depend on your television model and the type of sound. **Magic** and **Dolby Virtual** modes are only available in stereo on TV's equipped with Virtual Dolby Surround.



Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.


Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :

 This line appears only if you have selected **Dolby Virtual** on the **Sound mode** line.

Select this line and adjust the surround effect to suit you.

Exit the menu using **exit**.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode	Effect
Normal :	reproduces the original sound (mono or stereo).
Wide :	gives a stereo effect on mono sounds.
Stereo wide :	accentuates the stereo effect.
Magic :	accentuates the stereo effects and adds echo.
Dolby Virtual :	Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

"Dolby", "Pro Logic" and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the *menu* key on the remote control. Select the line marked **Time**. Validate using *ok*. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.


Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using *exit*.

Set the television to standby using the  key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	<input checked="" type="checkbox"/>
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	<input type="checkbox"/>

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control
or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.

- Validate using **ok**.

- Exit the menu using **exit**.

LIST	
Exit	
▶ 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE TV
06	M6
07	CNN
08	PREM
09	EURO
Page -/+ ◀/▶	
Programme: 0 - 9	

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume +/- keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information


Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fasttext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select "- - -" using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fasttext functions:

If the Teletext you receive is Fasttext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the **text** key.

To exit Teletext, press **exit** or **text**.

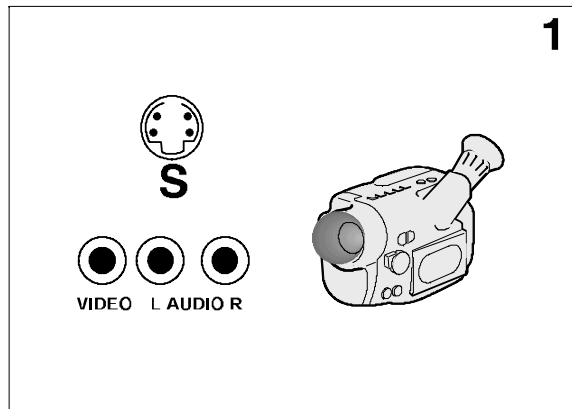
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



*To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.*

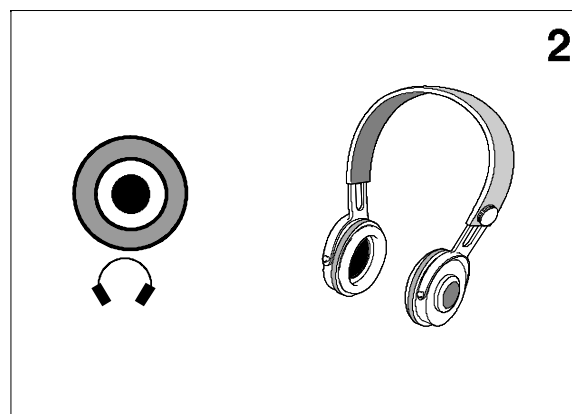


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.




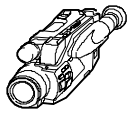
* on models equipped with this function

Other Possibilities

Copying a cassette:

Plug the VCR **you wish to record to** into the SCART socket AV2.

Plug the appliance **you wish to copy from** as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
 VCR	Peripheral AV1	VCR ou Camcorder	AV2	AV1
 Camcorder	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.