

# JVC

Preliminary

## SERVICE MANUAL

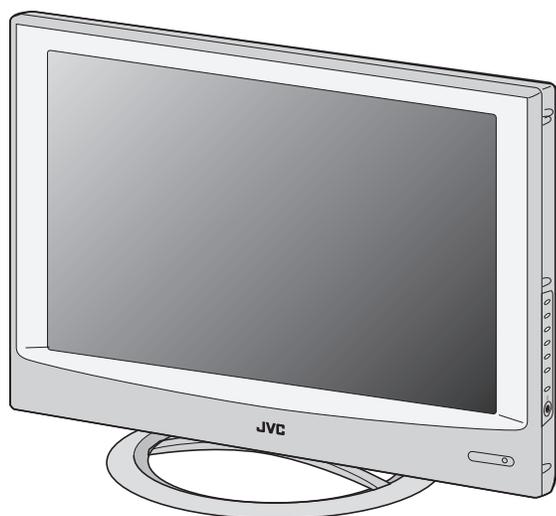
WIDE LCD PANEL TELEVISION

### LT-26A60BU, LT-26A60SJ, LT-26A60SU

BASIC CHASSIS

FT

InterArt  
**T-V LINK**



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## SPECIFICATION

Items	Contents
Dimensions ( W × H × D )	68.6 cm × 52.5 cm × 22.5 cm [Included stand] 68.6 cm × 47.4 cm × 12.2 cm [TV only]
Mass	15.6 kg [Included stand] 12.4 kg [TV only]
Power Input	AC110V - AC240 V, 50 Hz / 60 Hz
Power Consumption	104 W (Standby: 2.0 W)
TV RF System	CCIR (B/G, I, D/K, L)
Colour System	PAL, SECAM, NTSC 3.58/4.43 [EXT only]
Stereo System	NICAM (B/G, I, D/K, L), A2 (B/G, D/K)
Teletext System	FLOF (Fastext level 2.5), TOP, WST(World Standard system)
Receiving Frequency	VHF: 47MHz - 470MHz UHF: 470MHz - 862MHz
Intermediate Frequency	VIF 38.9MHz (B/G, I, D/K, L)
	SIF 33.4MHz (5.5MHz :B/G) 32.9MHz (6.0MHz :I) 32.4MHz (6.5MHz :D/K)
Colour Sub Carrier Frequency	PAL 4.43MHz
	SECAM 4.40625MHz / 4.25MHz
	NTSC 3.58MHz / 4.43MHz
LCD panel	26V-inch wide aspect (16 : 9)
Screen Size	Diagonal : 66 cm (H: 57.6 cm × V: 32.4 cm)
Display Pixels	Horizontal : 1366 dots × Vertical : 768 dots (W-XGA)
Audio Power Output	10 W + 10 W
Speaker	6.6 cm, round type × 2 (Oblique corn)
Aerial terminal (VHF/UHF)	75 Ω unbalanced, coaxial
EXT-1 / EXT-2 (Input / Output)	21-pin Euro connector (SCART socket ) × 2
EXT-3 (Input)	S-Video Mini-DIN 4 pin × 1 Y: 1 V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286 V (p-p) (Burst signal), 75 Ω
	Video 1 V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1 Audio 500 mV (rms), High impedance, RCA pin jack × 2
EXT-4 (Input)	Component Video RCA pin jack × 3 750p Y : 1 V (p-p) (Sync signal: ±0.35V(p-p), 3-value sync.), 75Ω Pb/Pr : ±0.35V(p-p), 75 Ω
	625p / 525p / 625i / 525i Y : 1 V (p-p), Positive (Negative sync provided), 75 Ω Cb/Cr : 0.7V(p-p), 75 Ω
PC (RGB) Input	D-sub 15 pin × 1 R/G/B : 0.7 V (p-p), 75Ω HD / VD : 1 V (p-p) to 5 V (p-p), high impedance < Available signal > VGA : 640 pixels × 480 pixels (Horizontal : 31.5 kHz / Vertical : 60 Hz) XGA : 1024 pixels × 768 pixels (Horizontal : 48.4 kHz / Vertical : 60 Hz)
Headphone	3.5 mm stereo mini jack × 1
Remote Control Unit	RM-C1816S (AA/R6 dry cell battery × 2)

Design & specifications are subject to change without notice.

# SECTION 1 PRECAUTION

## 1.1 SAFETY PRECAUTIONS [EXCEPT FOR UK]

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND, the ISOLATED (NEUTRAL) : (  $\perp$  ) side GND and EARTH : (  $\oplus$  ) side GND.  
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

## (6) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

### a) Dielectric Strength Test

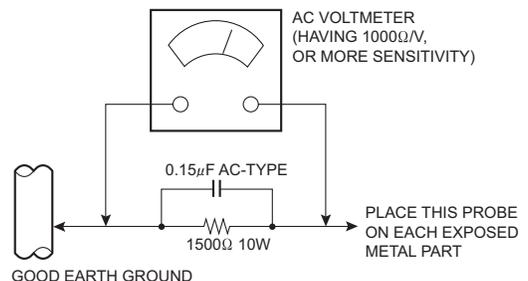
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

### b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 $\Omega$  per volt or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



## 1.2 SAFETY PRECAUTIONS [FOR UK]

- (1) The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (  ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

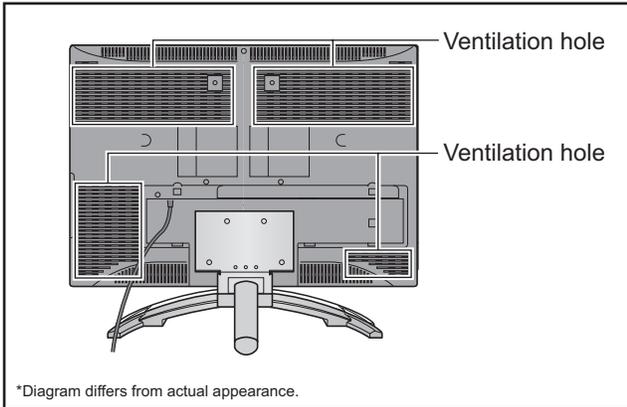
### WARNING

- (1) The equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

### 1.3 INSTALLATION

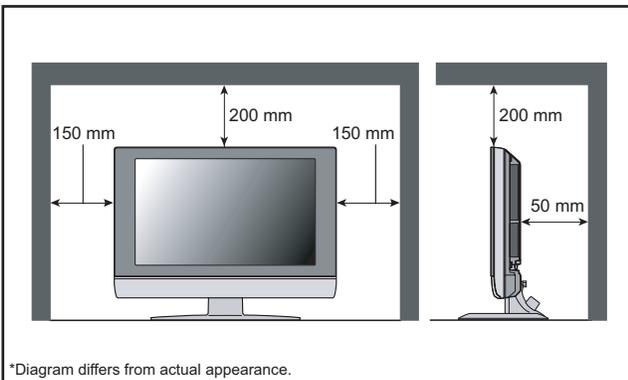
#### 1.3.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



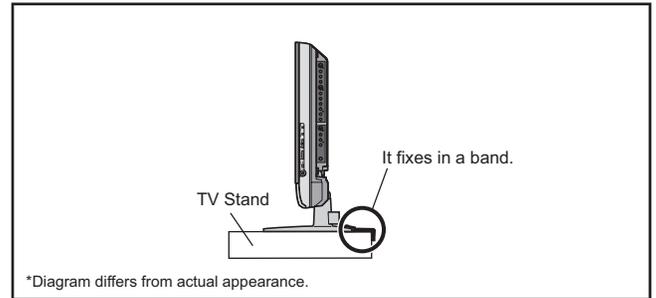
#### 1.3.2 INSTALLATION REQUIREMENTS

Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



#### 1.3.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.



#### 1.3.4 NOTES ON HANDLING

##### (1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

##### (2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

## **1.4 HANDLING LCD PANEL**

### **1.4.1 PRECAUTIONS FOR TRANSPORTATION**

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

- (1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**  
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.
- (2) **ATTACH PROTECTION SHEET TO THE FRONT**  
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.
- (3) **AVOID VIBRATIONS AND IMPACTS**  
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.
- (4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**  
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

### **1.4.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)**

- (1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and COLOUR.
- (2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).
- (3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.
- (4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

### **1.4.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS**

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

- (1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular COLOUR.
- (2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.
- (3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 FEATURES

##### T-V LINK

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos.

##### PICTURE MODE

This function can adjust the picture settings automatically.

##### ZOOM

This function can change the screen size according to the picture aspect ratio.

##### 3D SOUND

This function can enjoy Surround sound with a "live" effect by using the 3D SOUND.

##### DIGITAL VNR

This function cuts down the amount of noise in the original picture.

##### COLOUR SYSTEM

If the picture is not clear or no colour appears, change the current colour system to another colour system.

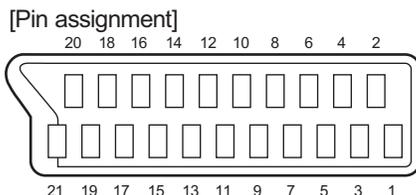
#### 2.2 MAIN DIFFERENCE LIST

Item	LT-26A60BU	LT-26A60SU	LT-26A60SJ
FRONT PANEL COLOUR	BLACK	SILVER	SILVER

#### 2.3 21-PIN EURO CONNECTOR (SCART) : EXT-1 / EXT-2

Pin No.	Signal designation	Matching value	EXT-1	EXT-2
1	AUDIO R output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)
2	AUDIO R input	500mV(rms) (Nominal), High impedance	Used (R1)	Used (R2)
3	AUDIO L output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)
4	AUDIO GND		Used	Used
5	GND (B)		Used	Used
6	AUDIO L input	500mV(rms) (Nominal), High impedance	Used (L1)	Used (L2)
7	B input	700mV <sub>(B-W)</sub> , 75Ω	Used	Used
8	FUNCTION SW (SLOW SW)	Low : 0V-3V High : 8V-12V, High impedance	Used	Used
9	GND (G)		Used	Used
10	SCL / T-V LINK		Not used	Used (SCL2 / TV-LINK)
11	G input	700mV <sub>(B-W)</sub> , 75Ω	Used	Used
12	SDA		Not used	Used (SDA2)
13	GND (R)		Used	Used
14	GND (YS)		Used	Not used
15	R / C input	R : 700mV <sub>(B-W)</sub> , 75Ω C : 300mV <sub>(P-P)</sub> , 75Ω	Used (R)	Used (C2/R)
16	Ys input (FAST SW)	Low : 0V-0.4V, High : 1V-3V, 75Ω	Used	Used
17	GND (VIDEO output)		Used	Used
18	GND (VIDEO input)		Used	Used
19	VIDEO output	1V <sub>(P-P)</sub> (Negative sync), 75Ω	Used (TV OUT)	Used (LINE OUT)
20	VIDEO / Y input	1V <sub>(P-P)</sub> (Negative sync), 75Ω	Used	Used
21	COMMON GND		Used	Used

(P-P= Peak to Peak, B-W= Blanking to white peak)



## 2.4 TECHNICAL INFORMATION

### 2.4.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

#### 2.4.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications
Maximum dimensions ( W × H × D )	626.0 mm × 373.0 mm × 51.0 mm
Weight	4.7 kg
Effective screen size	Diagonal: 660 mm (H: 576 mm × V: 324 mm)
Aspect ratio	16 : 9
Drive device / system	a-Si-TFT active matrix system
Resolution	Horizontally 1366 × Vertically 768 × RGB < W-XGA > 3147264 dots in total
Pixel pitch (pixel size)	Horizontally: 0.4215 mm Vertically: 0.4215mm
Displayed colour	16777216 colours 256 colours for R G and B
Brightness	500cd/m <sup>2</sup>
Contrast ratio	800 : 1
Response time	8ms
View angle	Horizontally: 170° Vertically: 170°
Surface polarizer	Anti-Glare type Low reflective coat
Colour filter	Vertical stripe
Backlight	U-type Cold cathode fluorescent lamp × 8
Power supply voltage in LCD	6.5 V
Power supply voltage in inverter	26.4 V
Panel interface system	LVDS (Low Voltage Differential Signaling)

#### 2.4.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

##### ■ BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

##### ■ DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

##### ■ FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

## 2.4.2 MAIN CPU PIN FUNCTION [U302 : MAIN PWB]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	D1	I/O	Program ROM data for CPU	51	NC2	-	Not used
2	D4	I/O	Program ROM data for CPU	52	XTAL2	O	6MHz for system clock
3	D2	I/O	Program ROM data for CPU	53	XTAL1	I	6MHz for system clock
4	D3	I/O	Program ROM data for CPU	54	NC3	-	Not used
5	XROM	O	This pin must be pulled low to access external ROM.	55	VSSA	-	GND
6	VDD 2.5	I	2.5V	56	VDDA 2.5	I	2.5V
7	VSS	-	GND	57	R	O	R for teletext
8	VDD 3.5	I	3.5V	58	G	O	G for teletext
9	P0.0	I/O	Address/Data for scaler IC	59	B	O	B for teletext
10	P0.1	I/O	Address/Data for scaler IC	60	BLANK/COR	O	Ys for Teletext
11	P0.2	I/O	Address/Data for scaler IC	61	NC4	-	Not used
12	P0.3	I/O	Address/Data for scaler IC	62	P1.7	O	Reset for Scaler IC [H=Reset]
13	P0.4	-	Not used	63	NC5	-	Not used
14	P0.5	O	Address latch Enable	64	WR	O	Write for memory
15	P0.6	-	Not used	65	RD	O	Read for memory
16	P0.7	-	Not used	66	NC6		Not used
17	ENE	-	Not used	67	A19	O	Program ROM address for CPU
18	STOP	-	Not used	68	A18	O	Program ROM address for CPU
19	OCF	-	Not used	69	A16	O	Program ROM address for CPU
20	EXTIF	-	Not used	70	A17	O	Program ROM address for CPU
21	CVBS	I	Video for teletext	71	A15	O	Program ROM address for CPU
22	VDDA 2.5	I	2.5V	72	FL_PGM	-	Test purpose
23	VSSA	-	GND	73	VDD 2.5	I	2.5V
24	P2.0	I	Scart2 ID [H=Detect]	74	VSS	-	GND
25	P2.1	I	key scan data 1	75	VDD 3.3	I	3.3V
26	P2.2	I	key scan data 2	76	A14	O	Program ROM address for CPU
27	P2.3	I	Scaet1 ID [H=Detect]	77	A12	O	Program ROM address for CPU
28	NC1	-	Not used	78	A13	O	Program ROM address for CPU
29	HS/SSC	I	Horizontal sync	79	A7	O	Program ROM address for CPU
30	VS	I	Vertical sync	80	FL_RST	-	Test purpose
31	P3.0	O	Data Read for Scaler IC	81	A8	O	Program ROM address for CPU
32	P3.1	O	Comunication for adjustment [H=TXD]	82	A6	O	Program ROM address for CPU
33	P3.2	I	TV-Link in	83	A9	O	Program ROM address for CPU
34	P3.3	I	Remote control	84	A5	O	Program ROM address for CPU
35	P3.4	I/O	I2C bus Data(for EEPROM)	85	A11	O	Program ROM address for CPU
36	P3.5	O	I2C bus Clock(for EEPROM)	86	A4	O	Program ROM address for CPU
37	P3.6	O	Data Write for Scaler IC	87	ALE	O	Address Latch Enable
38	P3.7	I	Comunication for adjustment [H=RXD]	88	PSEN	O	Program Store Enable
39	VSS	-	GND	89	A3	O	Program ROM address for CPU
40	VDD 3.3	I	3.3V	90	A10	O	Program ROM address for CPU
41	P1.0	O	RGB Select [L=SCART1, H=SCART2]	91	VSS	-	GND
42	P1.1	I	Headphone Ident [L=Detect]	92	VDD 3.3	I	3.3V
43	P1.2	I/O	I2C bus Data(for inter IC)	93	A2	O	Program ROM address for CPU
44	P1.3	O	I2C bus Clock(for inter IC)	94	A1	O	Program ROM address for CPU
45	P1.4	O	Reset for inter IC [L=Reset]	95	FL_CE	-	Test purpose
46	P1.5	I	PC Detect [L=Detect]	96	D7	I/O	Program ROM data for CPU
47	P1.6	O	Memory Pack I2C S/W [L=Detect]	97	A0	O	Program ROM address for CPU
48	P4.2	O	Main power control [L=ON, H=OFF]	98	D6	I/O	Program ROM data for CPU
49	P4.3	O	TV-Link out	99	D0	I/O	Program ROM data for CPU
50	RST	O	Reset [L=Reset]	100	D5	I/O	Program ROM data for CPU

# SECTION 3

## DISASSEMBLY

### 3.1 DISASSEMBLY PROCEDURE

#### CAUTION AT DISASSEMBLY:

- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

#### 3.1.1 REMOVING THE STAND

- (1) Remove the JACK COVER.
- (2) Remove the 2 screws [A], then remove the STAND COVER.
- (3) Remove the 2 screws [W], then remove the CABLE COVER.
- (4) Remove the 4 screws [B], then remove the STAND.

#### 3.1.2 REMOVING THE REAR COVER

- Remove the STAND.
  - (1) Remove the 8 screws [C], 1 screw [D] and 2 screws [E], then remove the REAR COVER.

#### 3.1.3 REMOVING THE POWER PWB

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 4 screws [G] and 1 screw [H], then remove the TERMINAL BASE.
  - (2) Remove the 8 screws [F], then remove the BACK BRACKET.
  - (3) Remove the 6 screws [J], then remove the POWER PWB SHIELD.
  - (4) Remove the 5 screws [K], then remove the POWER PWB.

#### 3.1.4 REMOVING THE MAIN PWB

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TERMINAL BASE.
- Remove the BACK BRACKET.
- Remove the POWER PWB SHIELD.
  - (1) Remove the 7 screws [L] and 2 screws [N], then remove the MAIN PWB SHIELD.
  - (2) Remove the 6 screws [M], then remove the MAIN PWB.

#### 3.1.5 REMOVING THE CONTROL PWB

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 2 screws [P], then remove the CONTROL PWB.

#### 3.1.6 REMOVING THE LED PWB

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 2 screws [Q], then remove the LED PWB.

#### 3.1.7 REMOVING THE SPEAKER

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 6 screws [R], then remove the SPEAKER (L/R).

#### CAUTION:

Please do not disassembly the SPEAKER.  
When the speaker is decomposed, the performance cannot be kept.

#### 3.1.8 REMOVING THE LCD PANEL UNIT

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TERMINAL BASE.
- Remove the BACK BRACKET.
  - (1) Remove the 6 screws [S], then remove the MAIN BASE.
  - (2) Remove the 6 screws [T], then remove the FRONT PANEL.
  - (3) Remove the 2 screws [U], then remove the TOP FRAME.
  - (4) Remove the 2 screws [V], then remove the BOTTOM FRAME.

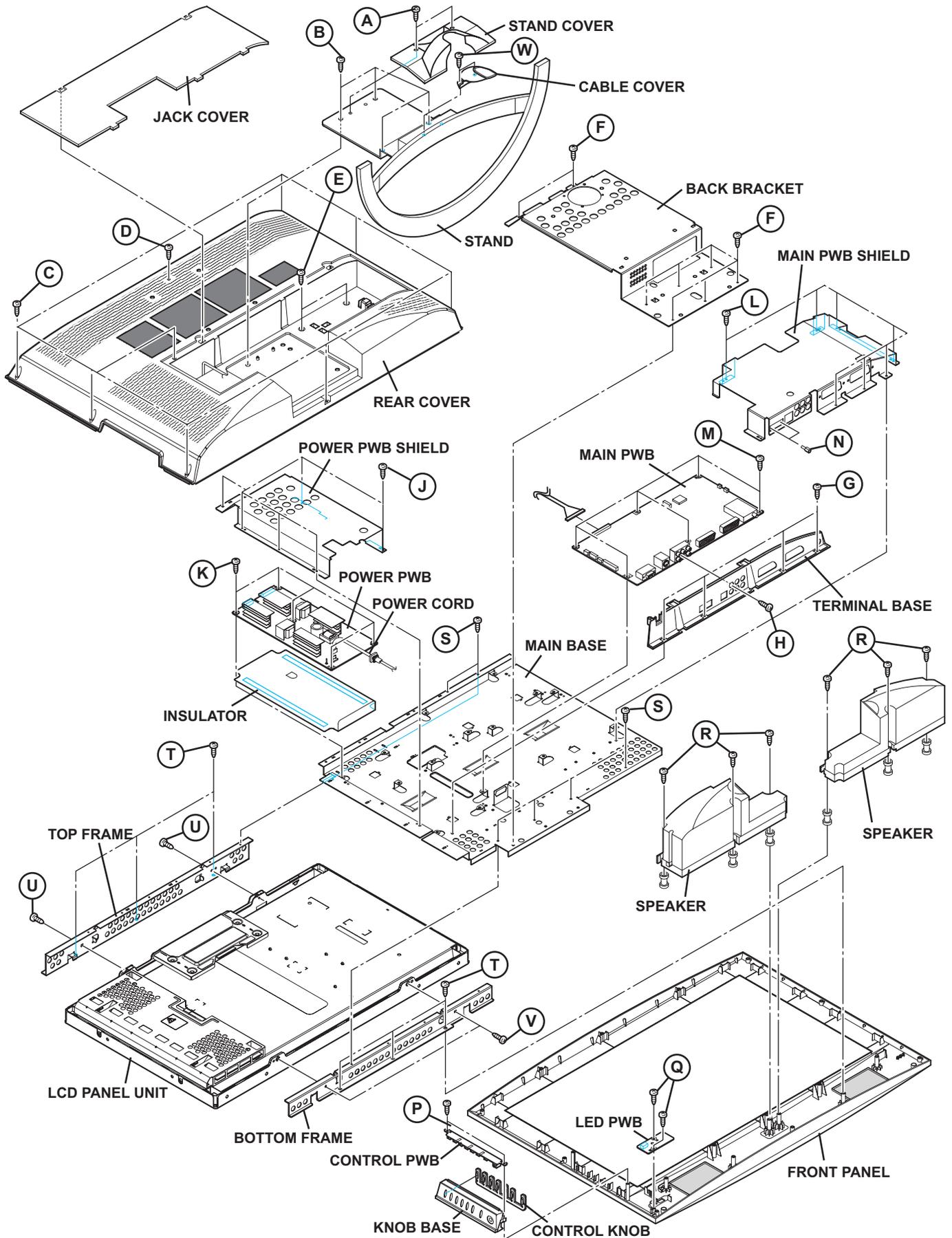


Fig.1

### 3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

#### 3.2.1 MEMORY IC REPLACEMENT PROCEDURE

##### 1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

##### 2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

##### 3. Power on

Connect the power plug to the AC outlet and switch on the power.

##### 4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

##### 5. User setting

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

##### 6. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

#### 3.2.2 SERVICE MODE SETTING

##### ■SERVICE MODE SCREEN

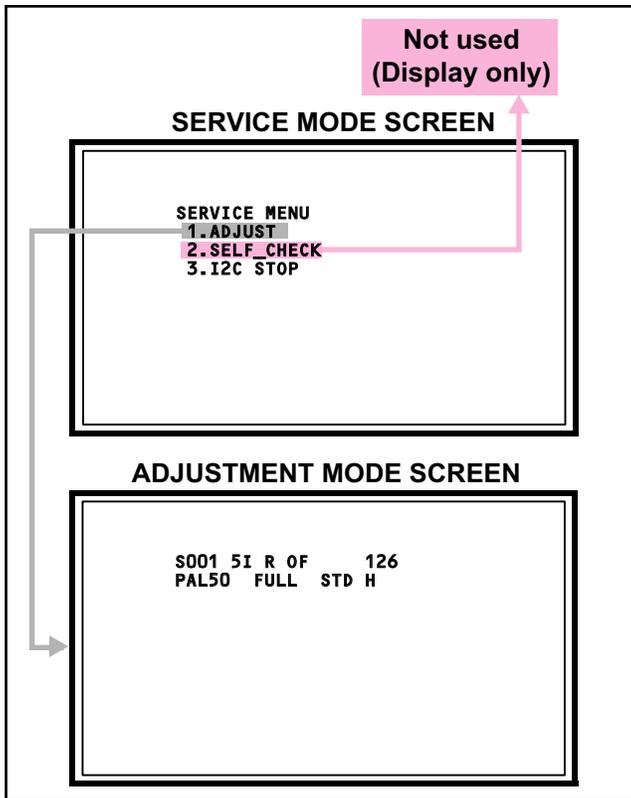


Fig.1

##### ■SETTING ITEM

Setting items	Settings	Item No.
Video system setting -1	Adjust	S001 - S043
Video system setting -2	Fixed	M001 - M009
Audio System Setting	Fixed	A001 - A003
Video system setting -3	Fixed	D001 - D051

##### NOTE:

As self check feature is not used in this TV, "2.SELF\_CHECK" cannot be selected (screen display only).

### 3.2.3 SETTINGS OF FACTORY SHIPMENT

#### 3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	10
TV/AV	TV

#### 3.2.3.3 REMOTE CONTROL MENU OPERATION

##### (1) PICTURE

Setting item	Setting position
PICTURE MODE	BRIGHT
COLOUR TEMP.	COOL
<b>FEATURES</b>	
DIGITAL VNR	AUTO (LOW)
COLOUR SYSTEM	TV Depends on PR/CH
	EXT AUTO
4:3 AUTO ASPECT	PANORAMIC

##### (2) SOUND

Setting item	Setting position
STEREO / I•II	Stereo sound
BASS	Centre
TREBLE	Centre
BALANCE	Centre
3D SOUND	OFF

#### 3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	10
ZOOM	PANORAMIC
3D SOUND	OFF

##### (4) FEATURES

Setting item	Setting position
SLEEP TIMER	OFF
CHILD LOCK	ID NO.0000, All CH off
APPEARANCE	TYPE D
BLUE BACK	ON
FAVOURITE SETTING	Reset

##### (5) SET UP

Setting item	Setting position
AUTO PROGRAM	TV channel automatically set
EDIT/MANUAL	PRESET CH only
LANGUAGE	ENGLISH
DECODER (EXT-2)	OFF
<b>EXT SETTING</b>	
S-IN	BLANK
ID	BLANK
DUBBING	EXT-1 → EXT-2

### 3.3 REPLACEMENT OF CHIP COMPONENT

#### 3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

#### 3.3.2 SOLDERING IRON

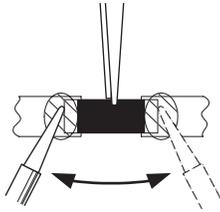
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.3.3 REPLACEMENT STEPS

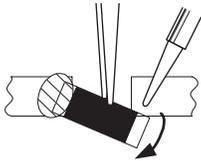
##### 1. How to remove Chip parts

###### [Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

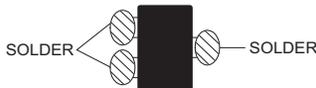


- (2) Shift with the tweezers and remove the chip part.

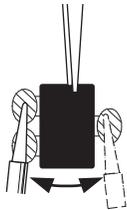


###### [Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



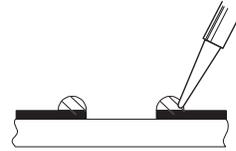
#### NOTE :

After removing the part, remove remaining solder from the pattern.

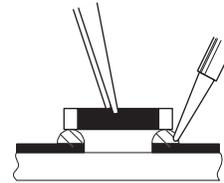
##### 2. How to install Chip parts

###### [Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

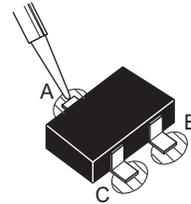


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

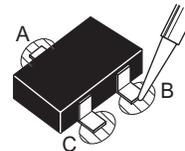


###### [Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



# SECTION 4 ADJUSTMENT

## 4.1 ADJUSTMENT PREPARATION

- (1) The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (2) Make sure that connection is correctly made AC to AC power source.
- (3) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
- (4) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (5) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

## 4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Setting item	Settings position
PICTURE MODE	STANDARD
PICTURE adjustments	Centre
COLOUR TEMP.	NORMAL

## 4.3 MEASURING INSTRUMENT AND FIXTURES

- Signal generator (Pattern generator)[PAL]
- Remote control unit

## 4.4 ADJUSTMENT ITEMS

### ■ VIDEO CIRCUIT

- WHITE BALANCE (HIGH LIGHT) adjustment

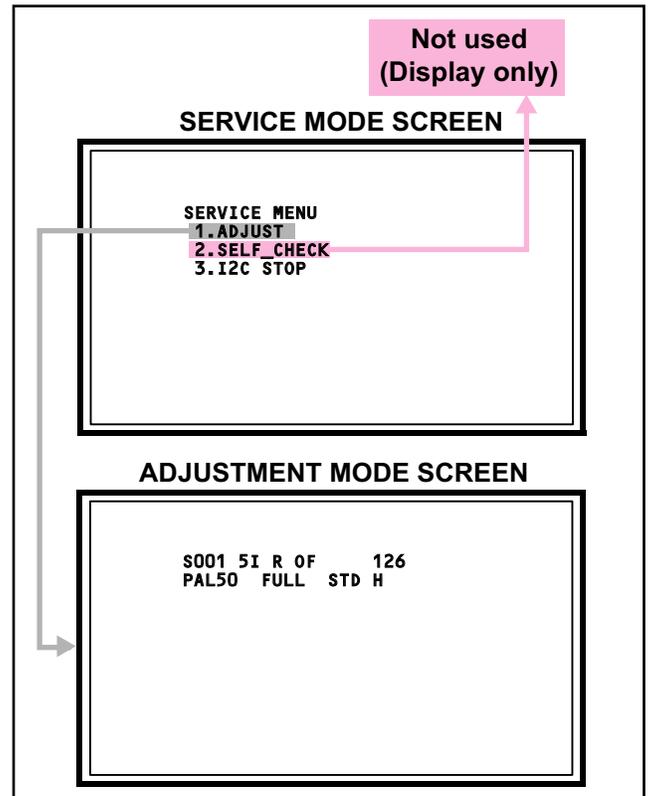
## 4.5 BASIC OPERATION OF SERVICE MODE

### 4.5.1 HOW TO ENTER THE SERVICE MODE

- (1) Press **[INFORMATION]** key and **[MUTING]** key on the remote control unit simultaneously to enter the SERVICE MODE SCREEN.
- (2) In the SERVICE MENU, press the **[1]** key to display ADJUSTMENT MODE SCREEN.

### NOTE:

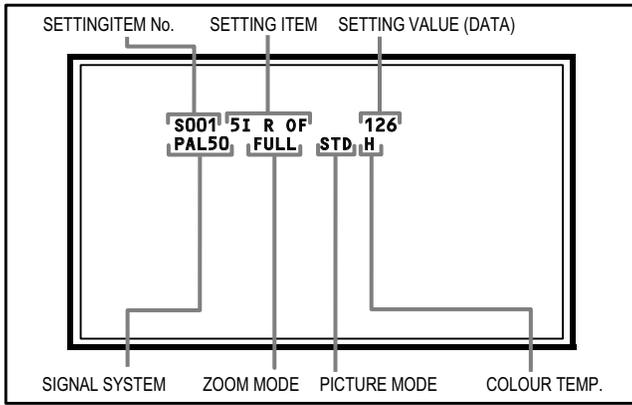
- As self check feature is not used in this TV, "2.SELF\_CHECK" cannot be selected (screen display only).
- Before entering the SERVICE MODE, confirm that the setting of VCR/TV/DVD switch is at the "TV" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.
- When a number key other than the **[1]** key is pressed in the SERVICE MODE SCREEN, the other relevant screen may be displayed.  
This is not used in the adjustment procedure. Press the **[MENU]** key to return to the SERVICE MODE SCREEN.



### 4.5.2 HOW TO EXIT THE SERVICE MODE

Press the **[MENU]** key to exit the Service mode.

#### 4.5.3 DESCRIPTION OF STATUS DISPLAY



##### (1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

- PAL50 : PAL50Hz (Composite / S-video)
- PAL60 : PAL60Hz (Composite / S-video)
- SECAM : SECAM
- NTSC3 : NTSC3.58
- NTSC4 : NTSC4.43
- 525I : 525i (Component)
- 525P : 525p
- 625I : 625i (Component)
- 625P : 625p
- 750P6 : 750p 60Hz
- RGB5 : RGB 525i
- RGB6 : RGB 625i
- PCVGA : PC (VGA)
- PCXGA : PC (XGA)

##### (2) ZOOM MODE

State of the screen mode is displayed.

###### NOTE:

In ADJUSTMENT MODE, the screen mode can be set only to "FULL". When it is entered to ADJUSTMENT MODE, it is automatically changed to "FULL", even if the setting is in other screen mode.

##### (3) PICTURE MODE

State of the picture mode is displayed.

###### NOTE:

In ADJUSTMENT MODE, the picture mode can be set only to "STANDARD". When it is entered to ADJUSTMENT MODE, it is automatically changed to "STANDARD", even if the setting is in other picture mode.

##### (4) COLOUR TEMP.

State of the colour temperature is displayed.

###### NOTE:

In ADJUSTMENT MODE, the colour temperature can be set only to "NORMAL". When it is entered to ADJUSTMENT MODE, it is automatically changed to "NORMAL", even if the setting is in other colour temperature.

##### (5) SETTING ITEM NAME

Setting item name are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
S001 - S043	Video system setting -1
M001 - M009	Video system setting -2
A001 - A003	Audio System Setting
D001 - D051	Video system setting -3

##### (6) SETTING ITEM NO.

Setting item numbers are displayed. For the setting item names to be displayed, refer to "INITIAL SETTING VALUES IN THE SERVICE MODE".

##### (7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

#### 4.5.4 CHANGE AND MEMORY OF SETTING VALUE

##### SELECTION OF SETTING ITEM

- [FUNCTION ▲/▼] key.

For scrolling up / down the setting items.

S001... ↔ M001... ↔ A001... ↔ D001...

##### CHANGE OF SETTING VALUE (DATA)

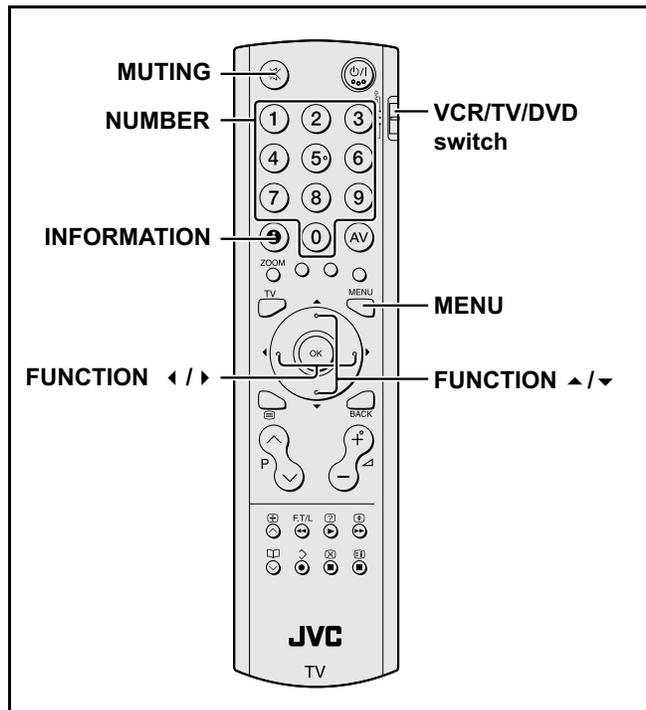
- [FUNCTION ◀/▶] key.

For scrolling up / down the setting values.

##### MEMORY OF SETTING VALUE (DATA)

Changed setting value is memorized by pressing [MUTING] key.

#### 4.5.5 SERVICE MODE SELECT KEY LOCATION



#### 4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

##### 4.6.1 VIDEO SYSTEM SETTING -1

Item No.	Item name	Variable range	Setting value
S001	5I R OF	000 - 255	122
S002	5I G OF	000 - 255	120
S003	5I B OF	000 - 255	122
S004	5P R OF	000 - 255	122
S005	5P G OF	000 - 255	120
S006	5P B OF	000 - 255	122
S007	HD75 R OF	000 - 255	127
S008	HD75 R OF	000 - 255	127
S009	HD75 R OF	000 - 255	127
S010	HD25 R OF	000 - 255	127
S011	HD25 R OF	000 - 255	127
S012	HD25 R OF	000 - 255	127
S013	R DRIVE	000 - 255	150
S014	G DRIVE	000 - 255	150
S015	B DRIVE	000 - 255	150
S016	HD R DR	-32 - 31	-02
S017	HD G DR	-32 - 31	07
S018	HD B DR	-32 - 31	00
S019	CL R DR	-32 - 31	00
S020	CL G DR	-32 - 31	00
S021	CL B DR	-32 - 31	11
S022	WM R DR	-32 - 31	11
S023	WM G DR	-32 - 31	00
S024	WM B DR	-32 - 31	00
S025	HD CL R DR	-32 - 31	00
S026	HD CL G DR	-32 - 31	00
S027	HD CL B DR	-32 - 31	00
S028	HD WM R DR	-32 - 31	00
S029	HD WM G DR	-32 - 31	00
S030	HD WM B DR	-32 - 31	00
S031	PC R OF	000 - 255	133
S032	PC G OF	000 - 255	121
S033	PC B OF	000 - 255	115
S034	PC R DR	-32 - 31	-15
S035	PC G DR	-32 - 31	14
S036	PC B DR	-32 - 31	10
S037	PC CL R DR	-32 - 31	00
S038	PC CL G DR	-32 - 31	00
S039	PC CL B DR	-32 - 31	00
S040	PC WM R DR	-32 - 31	00
S041	PC WM G DR	-32 - 31	00
S042	PC WM B DR	-32 - 31	00
S043	PC AUTO WB	000 - 001	000

##### 4.6.2 VIDEO SYSTEM SETTING -2 (\*Fixed values)

Item No.	Item name	Variable range	Setting value
M001	MV CON	000 - 255	104
M002	MV SHA	000 - 255	128
M003	MV COL	000 - 255	154
M004	MV TIN	000 - 255	048
M005	(Not display)	000 - 255	120
M006	CH MUTE	000 - 001	000
M007	PC R GAIN	000 - 001	097
M008	PC G GAIN	000 - 001	101
M009	PC B GAIN	000 - 001	101

##### 4.6.3 AUDIO SYSTEM SETTING (\*Fixed values)

Item No.	Item name	Variable range	Setting value
A001	S BASS	000 - 016	008
A002	S TREBLE	000 - 016	008
A003	3D LEVEL	000 - 063	031

##### 4.6.4 VIDEO SYSTEM SETTING -3 (\*Fixed values)

Item No.	Item name	Variable range	Setting value
D001	S CON	000 - 063	029
D002	S BRI	000 - 063	038
D003	S SHA	000 - 008	004
D004	S COL	000 - 063	032
D005	S TIN	000 - 063	032
D006	RGB S COL	000 - 127	032
D007	5I S CON	000 - 063	032
D008	5I S BRI	000 - 063	032
D009	5I S SHA	000 - 063	032
D010	5I S COL	000 - 063	032
D011	5I S TIN	000 - 063	032
D012	5P S CON	000 - 063	032
D013	5P S BRI	000 - 063	032
D014	5P S SHA	000 - 063	032
D015	5P S COL	000 - 063	032
D016	5P S TIN	000 - 063	032
D017	HD S CON	000 - 063	032
D018	HD S BRI	000 - 063	032
D019	HD S SHA	000 - 063	032
D020	HD S COL	000 - 063	032
D021	HD S TIN	000 - 063	032
D022	HD25 S CON	000 - 063	032
D023	HD25 S BRI	000 - 063	032
D024	HD25 S SHA	000 - 063	032
D025	HD25 S COL	000 - 063	032
D026	HD25 S TIN	000 - 063	032
D027	PC S CON	000 - 063	021

Item No.	Item name	Variable range	Setting value
D028	PC S BRI	000 - 063	030
D029	TXT S CON	000 - 127	024
D030	TXT S BRI	000 - 127	016
D031	RGB S CON	000 - 127	048
D032	RGB S BRI	000 - 127	048
D033	STD BRI1	000 - 031	025
D034	STD CON	000 - 031	016
D035	STD BRI2	000 - 031	016
D036	STD SHA	000 - 031	016
D037	STD COL	000 - 031	016
D038	STD TIN	000 - 031	016
D039	SFT BRI1	000 - 031	014
D040	SFT CON	000 - 031	014
D041	SFT BRI2	000 - 031	014
D042	SFT SHA	000 - 031	014
D043	SFT COL	000 - 031	014
D044	SFT TIN	000 - 031	016
D045	BRI BRI1	000 - 031	031
D046	BRI CON	000 - 031	018
D047	BRI BRI2	000 - 031	016
D048	BRI SHA	000 - 031	018
D049	BRI COL	000 - 031	016
D050	BRI TIN	000 - 031	016
D051	PWM	000 - 031	008

## 4.7 ADJUSTMENT PROCEDURE

### 4.7.1 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
<b>WHITE BALANCE (HIGHLIGHT)</b>	Remote control unit Signal generator		[1.ADJUST] S013: R DRIVE (Red drive) S015: G DRIVE (Green drive) S017: B DRIVE (Blue drive)	<p>(1) Receive a PAL 75% all white signal.  (2) Set PICTURE MODE to "<b>STANDARD</b>".  (3) Set ZOOM to "<b>FULL</b>".  (4) Set COLOUR TEMP. to "<b>NORMAL</b>".  (5) Select "<b>1.ADJUST</b>" from the SERVICE MODE.  (6) Set &lt; <b>S013</b> &gt; (R DRIVE), &lt; <b>S015</b> &gt; (G DRIVE) and &lt; <b>S017</b> &gt; (B DRIVE) to "<b>145</b>".  (7) Adjust to Keep one of &lt; <b>S030</b> &gt; (Red drive), &lt; <b>S031</b> &gt; (Green drive) or &lt; <b>S032</b> &gt; (Blue drive) unchanged, then lower the other two so that the all-white screen is equally white throughout.</p> <p><b>NOTE:</b>  Set one or more of &lt; <b>S013</b> &gt;, &lt; <b>S015</b> &gt;, and &lt; <b>S017</b> &gt; to "<b>145</b>".</p> <p>(8) Check that white balance is properly tracked from low light to high light. If the white balance tracking is deviated, adjust to correct it.  (9) Press the [<b>MUTING</b>] key to memorize the set value.</p>

## **SECTION 5 TROUBLESHOOTING**

This service manual does not describe TROUBLESHOOTING.



# JVC

Victor Company of Japan, Limited  
AV & MULTIMEDIA COMPANY DISPLAY CATEGORY 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA314)

# JVC



ENGLISH  
DEUTSCH  
FRANÇAIS  
NEDERLANDS  
CASTELLANO  
ITALIANO  
PORTUGUÊS

InteriArt

## LT-26A60BU LT-26A60SU

**T-V LINK**

**WIDE LCD PANEL TV**

**INSTRUCTIONS**

**16:9 LCD TV**

**BEDIENUNGSANLEITUNG**

**TELEVISEUR A ECRAN LCD PANORAMIQUE**

**MANUEL D'INSTRUCTIONS**

**BREEDBEELD LCD TV**

**GEBRUIKSAANWIJZING**

**TELEVISOR CON PANEL LCD PANORÁMICO**

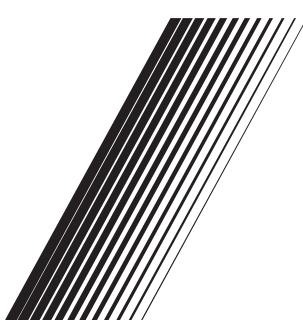
**MANUAL DE INSTRUCCIONES**

**TV LCD WIDESCREEN**

**ISTRUZIONI**

**TELEVISOR COM ECRÃ PANORÂMICO DE  
CRISTAL LÍQUIDO**

**INSTRUÇÕES**



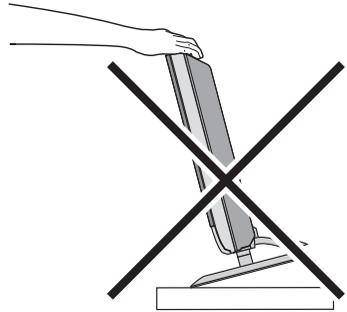


Thank you for buying this JVC LCD flat television.  
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin. ("LCD" stands for Liquid Crystal Display.)

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

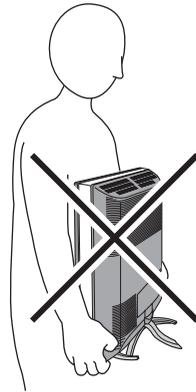
**WARNING**

- The TV may fall causing injuries. Hold the bottom of the stand with your hand and tilt the TV up and down.
- Do not allow children to hang from the TV, place their elbows on the TV or lean against the TV. Doing so may cause the TV to fall over and lead to injuries.



**CAUTION**

- The TV screen may be damaged if the TV is carried as shown in the diagram below.  
The TV should always be carried by two people.

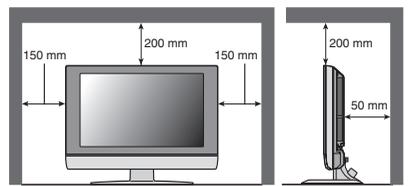


**Pixel defects**

LCDs use collections of fine points ("pixels") to display images. While there is no problem with more than 99.99% of these pixels, please understand that a very small number of pixels may not light, or may light all the time.

**Distance recommendations**

Avoid improper installation and never position the unit where good ventilation is impossible. When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture. Keep to the minimum distance guidelines shown for safe operation.



**Failure to take the following precautions may cause damage to the television or remote control.**

**DO NOT block the TV's ventilation openings or holes.**

(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

**DO NOT place anything on top of the TV.**

(such as cosmetics or medicines, flower vases, potted plants, cups, etc.)

**DO NOT allow objects or liquid into the cabinet openings.**

(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

**DO NOT place any naked flame sources, such as lighted candles, on the TV.**

**DO NOT subject the TV to direct sunlight.**

The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.

If there is a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

**■ Cleaning the screen**

The screen is coated with a special thin film to reduce reflection. If this film is damaged, uneven colors, discoloration, scratches, and other problems that cannot be repaired may occur. Pay attention to the following when handling the screen.

- Do not use glue or adhesive tape on the screen.
- Do not write on the screen.
- Do not allow the screen to come in contact with any hard objects.
- Do not allow condensation to form on the screen.
- Do not use alcohol, thinner, benzene or other solvents on the screen.
- Do not rub the screen hard.

---

**CAUTION:**

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
  - Avoid damaging the AC plug and power cord.
  - When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.
-

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# Setting up your TV

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- When you install the TV on the wall, only use a JVC wall mounting unit (optional) which is designed for this TV.
- Make sure that the TV is installed on the wall by a skilled installer.

---

## Installation

---

### Cautions for installation

- Install the TV in a corner on a wall or on the floor so as to keep cords out of the way.
- The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling. See “Distance recommendations” on page 1.

---

## Using the stand

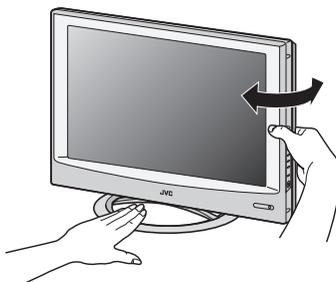
---

### This TV comes with a table top stand already attached.

This stand can be used to adjust the direction of the TV screen to the left or right.

### ■ Rotate the TV to the left and right:

While holding the bottom of the stand with one hand, use your other hand to hold the edge of the panel and slowly adjust the direction of the TV screen.



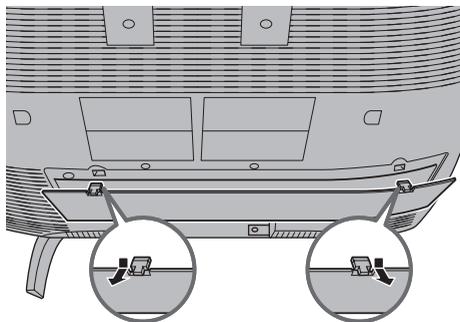
---

## Removing the terminal cover

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There are connection terminals behind the cover on the rear of the TV. Remove the cover before connecting an antenna or VCR.

Remove the cover by removing the hooks.  
When replacing the cover, place the side of the cover against the TV and insert the hooks.



- 
- Leave the cover off if they do not fit properly. Do not force to replace the cover. Doing so may cause damage to the connection cables and the cover.
-

## Connecting the aerial and video cassette recorder (VCR)

- The connecting cables are not provided.
- For further details, refer to the manuals provided with the devices to be connected.

### Caution

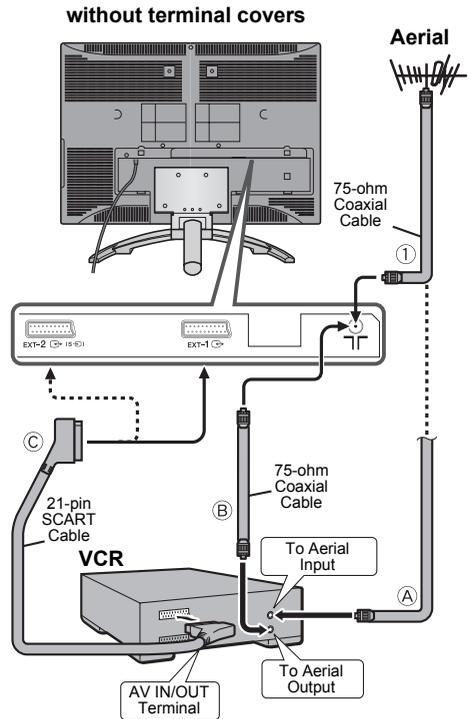
- Turn off all the equipment including the TV before connecting anything.

■ If you are connecting a VCR, follow ① → ② → ③ in the diagram opposite.

■ If you are not connecting a VCR, follow ①.

To use the T-V LINK functions, you must have a T-V LINK compatible VCR connected by a SCART cable ③ to the EXT-2 terminal on the TV. For details about T-V LINK functions, see “T-V LINK functions” on page 10.

- You can watch a video using the VCR without doing ③. For details, see your VCR instruction manual.
- To connect more equipment, please see “Connecting external equipment” on page 41.
- If you connect a decoder to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see “DECODER (EXT-2)” on page 36. Otherwise, you will not be able to watch scrambled channels.



## Connecting the power cord to the AC outlet

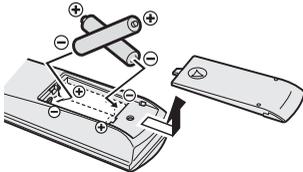
Insert the AC plug on the power cord from the TV into an AC outlet.

### Caution

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
- Remove the AC plug from the outlet to completely disconnect the TV from the power supply.

## Putting the batteries into the remote control

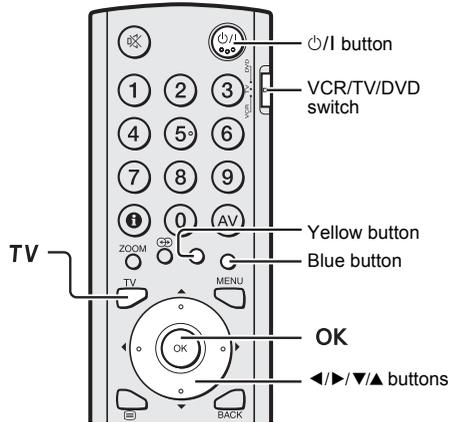
Use two AA/R6 dry cell batteries. Insert the batteries from the  $\ominus$  end, making sure the  $\oplus$  and  $\ominus$  polarities are correct.



- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on how much you use the remote control.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as you need to.
- If the remote control does not work properly, replace the batteries.

## Initial settings

When the TV is first turned on, it goes into the initial settings mode, and you will see the JVC logo. Follow the instructions on the screen display to make the initial settings.



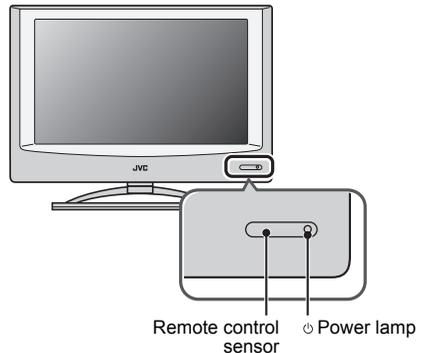
### 1 Make sure to set the VCR/TV/DVD switch on the remote control to the TV position

- You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

### 2 Press the ⏻ button on the remote control

The TV turns on from standby mode and the JVC logo is displayed.

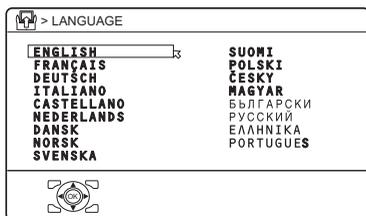
- Check that the AC plug on the power cord from the TV is connected to AC outlet.



- If the JVC logo does not appear this is because your TV has already been turned on for the first time: use the “LANGUAGE” and “AUTO PROGRAM” functions to make the initial settings. For details, see “SET UP menu” on page 32.

### 3 Press the OK button

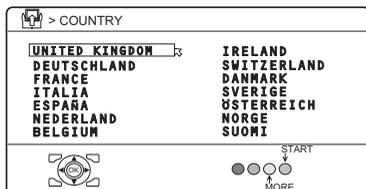
The LANGUAGE menu appears.



D0002(E)-EN

### 4 Press the ▼/▲ buttons to choose ENGLISH. Then press the OK button

The on-screen display will then be in English. The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function. There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:

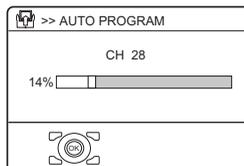


D0003-EN

### 5 Press the ◀/▶ and ▼/▲ buttons to choose the country where you are

### 6 Press the blue button to start the AUTO PROGRAM function

The AUTO PROGRAM menu appears and received TV channels are automatically stored in the programme numbers (PR).

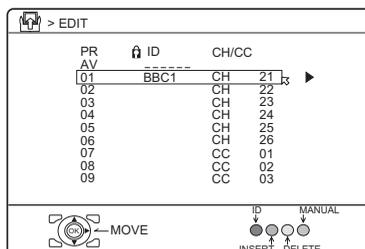


D0004-EN

- To cancel the AUTO PROGRAM function: Press the TV button.



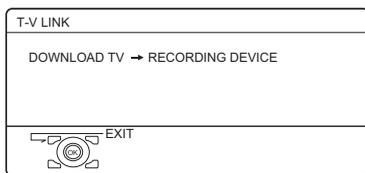
After the TV channels have been registered in the programme numbers (PR), the EDIT menu appears



D0038-EN

- If you want to, you can now edit the programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- If you do not want to edit programme numbers (PR), go to the next step.

## 7 Press the **OK** button to display the **T-V LINK** menu



D0005-EN

### **If you do not have a T-V LINK compatible VCR connected:**

Press the **TV** button to exit the T-V LINK menu.

The T-V LINK menu disappears.

### **If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:**

Follow the operating procedure “Downloading the data to VCR” on page 10 to transmit the Programme number (PR) data.

### **Now, the initial settings are complete, and you can watch the TV**

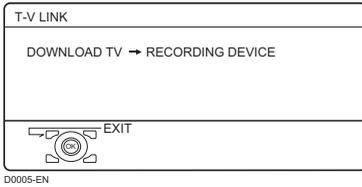
- If your TV can detect the TV channel name from the TV channel broadcast signal, the TV channel name is assigned to the programme number (PR) to which the TV channel has been set. However, which TV channels are set to which programme numbers (PR) will depend on the area in which you live.
- If a TV channel you want to view is not set to a programme number (PR), you can set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- The AUTO PROGRAM function does not set the programme number PR 0 (AV) for your video cassette recorder. You will need to set this using the MANUAL function.

■ **Downloading the data to VCR**

You can transmit to the latest Programme numbers (PR) data to a VCR with the T-V LINK function.

**Caution**

- This only works when a T-V LINK compatible VCR is connected to the EXT-2 terminal.
- This only works when the T-V LINK menu is being displayed.



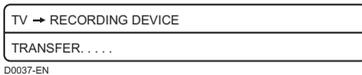
---

**1 Turn on the VCR**

---

**2 Press the OK button**

The data transmission begins.



The T-V LINK menu disappears once the data transmission ends.

**When the T-V LINK menu is changed over to another menu:**

The TV has finished its menu. This new menu is operated from the VCR. See the VCR instruction manual for what to do next.

**If “FEATURE NOT AVAILABLE” appears at the T-V LINK menu:**

Check the following three items. Then press the ◀ button to retry data transmission.

- Has a T-V LINK compatible VCR been connected to the EXT-2 terminal?
- Has the VCR power been turned on?
- Does the SCART cable that is connected to the EXT-2 terminal to T-V LINK compatible VCR have all its proper connections?

---

**T-V LINK functions**

---

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

**To use T-V LINK functions:**

A “T-V LINK compatible VCR” means a JVC video cassette recorder with the T-V LINK logo, or with one of the following logos. However, these VCRs may support some or all of the features described earlier. For details, see your VCR instruction manual.

- “Q-LINK” (a trademark of Panasonic Corporation)
- “Data Logic” (a trademark of Metz Corporation)
- “Easy Link” (a trademark of Phillips Corporation)
- “Megalogic” (a trademark of Grundig Corporation)
- “SMARTLINK” (a trademark of Sony Corporation).

## ■ Pre-set download

The VCR will automatically download the registered data on the TV channels from the TV. This means you do not need to set up the program channels on your VCR manually. The preset download function automatically begins when the initial setting is complete or whenever you carry out the AUTO PROGRAM or EDIT/MANUAL functions. You can also carry out this function using your VCR controls.

### When “FEATURE NOT AVAILABLE” is displayed:

If “FEATURE NOT AVAILABLE” is displayed, the download was not performed correctly. Before trying to download again, check that:

- the VCR power is turned on
- the VCR is T-V LINK compatible
- the VCR is connected to the EXT-2 terminal
- the SCART cable is fully wired.

## ■ Direct Rec

“What You See Is What You Record”

You can easily record to VCR the images that you are watching on the TV.

For details, read the manual for your VCR. Use your VCR controls. “DEVICE IS RECORDING” is displayed.

**In the following situations, the VCR will stop recording if the TV is turned off, if the TV channel or input is changed, or if the menu is displayed on the TV:**

- when recording images from an external device connected to the TV (for example a camcorder)
- when recording a TV channel after it has been unscrambled on a decoder
- when recording a TV channel by using the TV’s output because the VCR’s own tuner cannot properly receive that channel.

You cannot carry out Direct Rec using your TV’s control.

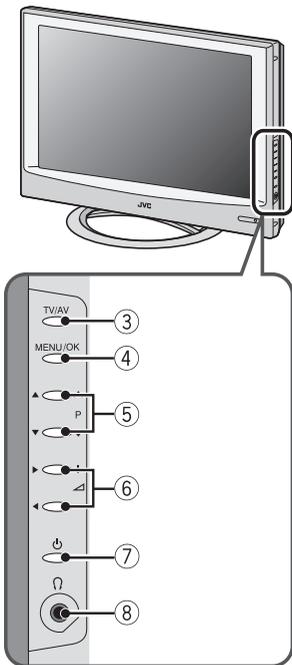
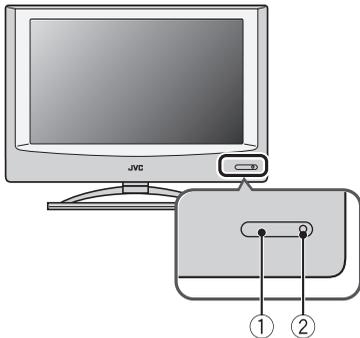
Generally, the VCR cannot record a TV channel that it cannot receive properly on its own tuner, even if you can view that TV channel on the TV. However, some VCRs can record a TV channel by using the TV’s output if that channel can be viewed on the TV. For details, see your VCR instruction manual.

When the VCR is not ready, the following messages are displayed.

ERROR MESSAGE	Cause and countermeasure
NO RECORDING	The VCR is not able to record. Check the VCR.
NO RECORDING POSSIBLE	The TV input is set to EXT-4 or PC. Since the EXT-4 picture or PC picture cannot be output to EXT-2, DIRECT REC is not possible.
NO RECORDING, MEDIA PROBLEM	The recording device is not ready to record. Check the VCR tape.
NO RECORDING, DEVICE BUSY	The recording device cannot record as it is recording or playing. Check the VCR.

Refer to the VCR instruction manual.

# TV buttons and functions



Refer to the pages in parentheses for details.

- ① Remote control sensor
- ② Power lamp (page 7)
- ③ TV/AV button (page 12)
- ④ MENU/OK button (pages 13, 24)
- ⑤ P  $\nabla/\Delta$  buttons (page 12)
- ⑥  $\nabla/\Delta$  (Volume)  $-/+$  buttons (page 13)
- ⑦  $\text{⏻}$  (Stand by) button (page 12)
- ⑧ Headphone jack (mini jack) (page 41)

## Turn the TV on from standby mode

Press the  $\text{⏻}$  button or the P  $\nabla/\Delta$  buttons to turn the TV on from standby mode.

When the TV is turned on, the power lamp lights blue.

**To turn the TV off:**

Press the  $\text{⏻}$  button again.  
The power lamp goes off.

## Caution

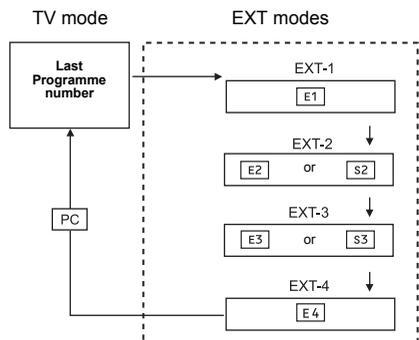
- The  $\text{⏻}$  button on the TV does not fully isolate the TV from the AC supply. If you are not going to use the TV for a long period, be sure to disconnect the AC plug from the AC socket.

## Choose a TV channel

Press the P  $\nabla/\Delta$  buttons to choose a programme number (PR) or an EXT terminal

## Watch images from external devices

Press the TV/AV button to choose an EXT terminal



---

## Adjust the volume

---

### Press the (Volume) -/+ buttons

The volume level indicator appears.

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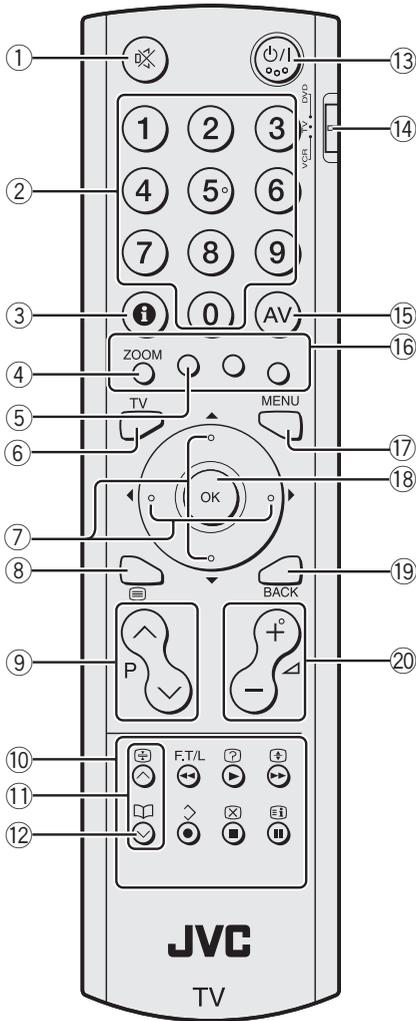
## Using the Menu

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### Use the MENU/OK button

Refer to “Using the TV’s menu” (see page 24) for details of using the menu.

# Remote control buttons and functions



- ① Muting button
- ② Number buttons
- ③ Information button
- ④ **ZOOM** button
- ⑤ **TV** button
- ⑥ **TV** button
- ⑦ ◀/▶/▼/▲ buttons
- ⑧ [Text] button
- ⑨ **P** ∨/∧ buttons
- ⑩ VCR/DVD/Teletext control buttons
- ⑪ ∨/∧ buttons
- ⑫ [Favourite] button
- ⑬ ⏻/⏼ (Standby) button
- ⑭ VCR/TV/DVD switch
- ⑮ **AV** button
- ⑯ Colour buttons
- ⑰ **MENU** button
- ⑱ **OK** button
- ⑲ **BACK** button
- ⑳ ◀ (Volume) -/+ buttons

## Turn the TV on or off from standby mode

**Press the ⏻/⏼ (standby) button to turn the TV on or off**

When the TV is turned on, the power lamp lights blue.

- The power can be turned on by pressing the **TV** button, **P** ∨/∧ buttons or Number buttons.

To turn the TV on or off, set the VCR/TV/DVD switch on the remote control to the TV position and press the ⏻/⏼ button. If the VCR/TV/DVD switch on the remote control is set to a position other than TV, the TV will not be turned on or off even if the ⏻/⏼ button is pressed.

## Choose a TV channel and watch images from external devices

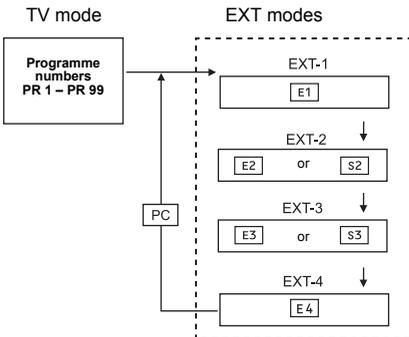
### ■ Use the number buttons: Enter the programme number (PR) of the channel using the number buttons.

Example:

- PR 6 → press **6**
- PR 12 → press **1** and **2**

### ■ Use the P $\nabla/\blacktriangle$ buttons: Press the P $\nabla/\blacktriangle$ buttons to choose the programme number (PR) you want or an EXT terminal.

### ■ Use the AV button: Press the AV button to choose an EXT terminal.



- You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details, see “S-IN (S-VIDEO input)” on page 37.
- If you do not have a clear picture or no colour appears, change the colour system manually. See “COLOUR SYSTEM” on page 26.
- If you choose an EXT terminal with no input signal, the EXT terminal number becomes fixed on the screen.

- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with progressive-scanning component signals. If this happens, change the output setting of the connected device to interlace-scanning component signal output. See the instructions that came with the device for more information.
- The PC sound is the same as the EXT-3 sound.

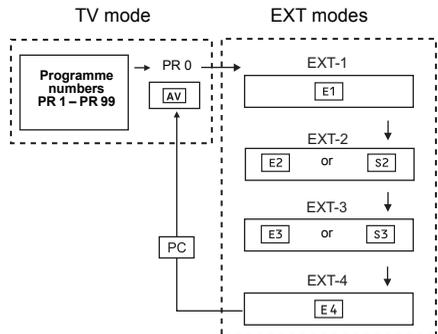
### To return to a TV channel:

Press the **TV** button, the  $\nabla/\blacktriangle$  buttons or the number buttons.

### To use the programme number PR 0 (AV):

When the TV and VCR are connected only by the aerial cable, choosing the programme number PR 0 (AV) allows you to view images from the VCR. Set the VCR RF channel to the programme number PR 0 (AV) manually. For details, see “EDIT/MANUAL” on page 32.

Pressing the **AV** button changes the choice as follows:



- The VCR sends its playback image along the aerial cable as an RF (radio frequency) signal.
- Also see your VCR instruction manual.

## Adjust the volume

Press the buttons to adjust the volume.

The volume level indicator appears and the volume changes as you press the buttons.

### ■ Muting the sound

Press the (muting) button to turn off the sound.

Pressing the (muting) button again restores the previous volume level.

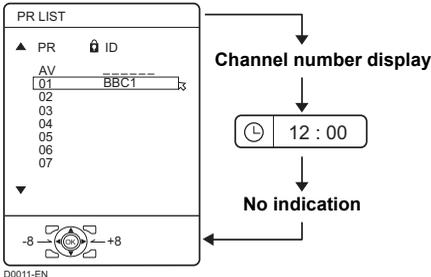
## Information function

You can see the channel number of the programme you are watching, the current time or the PR LIST.

From the PR LIST, you can choose a channel or EXT terminal.

Press the (Information) button to display the information you want to see.

Pressing the (Information) button changes the display as follows:



### Channel number display:

The channel number and channel name (when the channel name is registered) of the programme you are watching or the EXT terminal number is displayed.

### Time display:

The current time of the teletext data is displayed.

If the TV has not received a TV channel that has teletext programmes since it was turned on, the time display is blank. To view the current time, choose a TV channel that has teletext programmes.

- An incorrect current time is sometimes displayed when watching videos.

### PR LIST:

The programme number (PR) and EXT terminal list is displayed.

Pressing the **OK** button after choosing the programme number (PR) or EXT terminal with the buttons will display the chosen programme or EXT terminal.

- For programme numbers (PR) for which the CHILD LOCK function is set, the (CHILD LOCK) mark is displayed. For details see “CHILD LOCK” on page 29.
- For programme numbers (PR) which is registered as a favourite channel, the (favourite) mark is displayed. For details see “Favourite channel function” on page 19.

## ZOOM function

You can change the screen size according to the picture aspect ratio. Choose the optimum one from the following ZOOM modes.

- The ZOOM mode is fixed at FULL when you are using the TV as a PC screen.

### AUTO:

When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal.

If a WSS signal is not included, the picture is displayed according to the ZOOM mode set with the 4:3 AUTO ASPECT function.

- For details of the 4:3 AUTO ASPECT function, see “4:3 AUTO ASPECT” on page 27.
- When the AUTO (WSS) mode does not function correctly due to poor WSS signal quality or when you want to change the ZOOM mode, press the **ZOOM** button and change to another ZOOM mode.

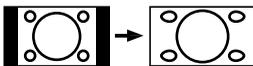
### REGULAR:

Use to view a normal picture (4:3 aspect ratio) as this is its original shape.



### PANORAMIC:

This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural.



- The top and bottom of the picture are slightly cut off.

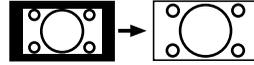
### 14:9 ZOOM:

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



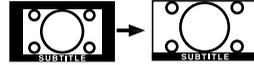
### 16:9 ZOOM:

This zooms up the wide picture (16:9 aspect ratio) to the full screen.



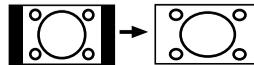
### 16:9 ZOOM SUBTITLE:

This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



### FULL:

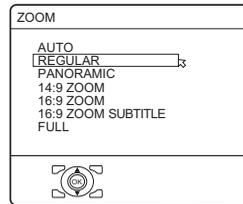
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the FULL mode to restore the picture to its original shape.

## ■ Choose the ZOOM mode

### 1 Press the **ZOOM** button to display the ZOOM menu



0009-EN

### 2 Press the **▼/▲** buttons to choose a ZOOM mode. Then press the **OK** button

The picture expands and the chosen ZOOM mode is displayed in about 5 seconds.

- The ZOOM mode may be automatically changed by the control signal from an external device. When you want to return to the previous ZOOM mode, choose the ZOOM mode again.

### ■ Adjusting the visible area of the picture

If subtitles or the top (or bottom) of the picture are cut off, you can adjust the visible area of the picture manually.

#### 1 Press the **ZOOM** button

The ZOOM menu appears.

#### 2 Press the **OK** button to display the **ZOOM mode indicator**

The indicator appears.



#### 3 While it is displayed, press the **▼/▲** buttons to change the position of the picture

- You cannot adjust the visible area in REGULAR or FULL mode.

The visible area adjustment is saved even after the TV channel is changed. However, it is cancelled if the following operations are performed.

- The power is turned off/on
- The ZOOM mode is changed
-  (Text) button is pressed
- The TV is switched between TV mode and EXT mode

---

## 3D SOUND function

---

You can enjoy sounds with a wider ambience.

- This function does not work for the sound from headphones.

### Press the button to select one of 3D SOUND modes

#### **ON:**

When you listen to stereo sound, please select ON mode.

You can enjoy sound similar to the experience at the theatre.

#### **MONO:**

Select the MONO mode, when you listen to the mono sound.

You can enjoy the sound for a wider audience similar to stereo sound.

#### **OFF:**

The 3D SOUND function switches off.

- You can choose the 3D SOUND mode with the “SOUND menu” (see page 28).

---

## Return to TV channel instantly

---

You can return to a TV channel instantly.

### Press the **TV** button

The TV returns to the TV mode and a TV channel appears.

---

## Favourite channel function

---

You can register your favourite TV channels (PR 1 – PR 99) in the number buttons 1 to 4. After registering, the channel can be called by pressing the  (favourite) button and a number button 1 to 4.

### ■ Favourite channel registration

#### 1 In the normal screen, choose a TV channel (PR 1 – PR 99) that you want to register

For details, refer to “Choose a TV channel and watch images from external devices” on page 15.

#### 2 Press and hold the (favourite) button for three seconds or more

Then “SET 1-4?” appears on the screen.

#### 3 Press one of the number buttons 1 to 4

The current channel is registered in the pressed number button. After “PROGRAMMED!” appears on the screen, the favourite channel icon appears at the top-right of the screen.

- If the channel you are trying to register is already registered in one of the other number buttons 1 to 4, “NOT AVAILABLE” appears on the screen.
  - Channels locked with the CHILD LOCK function cannot be registered.
  - If AUTO PROGRAM is performed, the registered favourite channels are reset.
- 
- When you want to delete a favourite channel, delete the set channel and set contents with FAVOURITE SETTING (see page 31) in the FEATURES menu.
- 

### ■ Calling the favourite channel

#### 1 In the normal screen, press the (favourite) button

Then “FAVORITE1-4?” appears.

#### 2 Press one of the number buttons 1 to 4

The called favourite channel appears on the screen.

- If a number button in which no channel is registered is pressed, “NO MEMORY” appears on the screen.

### ■ Setting the picture effect

When a favourite channel has been chosen with the  (favourite) button and number buttons 1 to 4, picture effect settings can be memorised for each favourite channel by setting the picture effects in the PICTURE menu (see page 25).

The following items in the PICTURE menu (see page 25) are memorised.

PICTURE MODE  
BRIGHT-1  
CONTRAST  
BRIGHT-2  
SHARP  
COLOUR  
HUE  
COLOUR TEMP.  
DIGITAL VNR  
COLOUR SYSTEM

The last setting made for each item is memorised.

---

## Operating a JVC brand VCR or DVD player

---

These buttons will operate a JVC brand VCR or DVD player. Pressing a button that looks the same as the device's original remote control button has the same effect as the original remote control.

---

### 1 Set the VCR/TV/DVD Switch to the VCR or DVD position

#### VCR:

When you are operating the VCR, set the switch to the VCR position.

- You can turn the VCR on or off with the  $\odot/I$  (standby) button.

#### DVD:

When you are operating the DVD player, set the switch to the DVD position.

- You can turn the DVD player on or off with the  $\odot/I$  (standby) button.
- You can also press the **MENU** or **TOP MENU** button and display the DVD disc menu screen, and then operate by pressing the  $\blacktriangleleft/\blacktriangleright/\blacktriangledown/\blacktriangleup$  buttons.

---

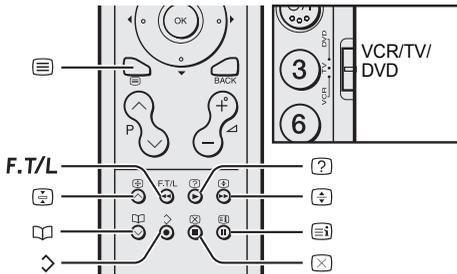
### 2 Press the VCR/DVD Control Button to control your VCR or DVD player

- If your device is not made by JVC, these buttons will not work.
- Even if your device is made by JVC, some of these buttons may not work, depending on the device you are using.
- You can use the  $\vee/\wedge$  buttons to choose a TV channel the VCR will receive, or choose the chapter the DVD player plays back.
- Some models of DVD player use the  $\vee/\wedge$  buttons for both operating the fast forward/backward functions and for choosing the chapter. In this case, the  $\blacktriangleleft/\blacktriangleright$  buttons do not work.

You cannot turn the TV on or off when the VCR/TV/DVD switch is set to the VCR or DVD position.

When you turn the TV on or off, set the VCR/TV/DVD switch to the TV position.

# Teletext function



**4 Choose a teletext page by pressing the P V/\& buttons, number buttons or colour buttons**

**To return to the TV mode:**

Press the **TV** button or (Text) button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- The ZOOM function will not work in the TV and text mode or Text mode.
- You cannot operate menus when viewing a teletext programme.
- Language display depends on the country which was set on the COUNTRY menu. If characters on a Teletext programme do not appear properly, change the COUNTRY setting to other country's. To change the COUNTRY setting, perform steps 1 and 2 of the "AUTO PROGRAM" procedure on page 32 and then press the **OK** button.

## Basic operation

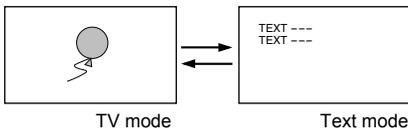
**1 Choose a TV channel with a teletext broadcast**

**2 Set the VCR/TV/DVD switch to the TV position**



**3 Press (Text) button to display the teletext**

Pressing (Text) button changes the mode as follows:



## Using the List Mode

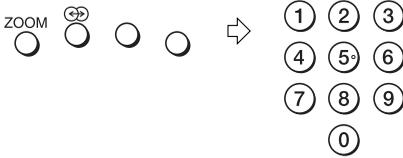
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

**■ To store the page numbers:**

**1 Press F.T./L button to go into the List mode**

The page numbers you have stored are displayed at the bottom of the screen.

**2 Press a colour button to choose a position. Then press the number buttons to enter the page number**



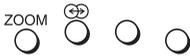
**3 Press and hold down the  $\diamond$  (Store) button**

The four page numbers blink white to show that they are stored in memory.

■ **To call up a stored page:**

**1 Press the F.T/L button to enter the List mode**

**2 Press a colour button having a stored page**

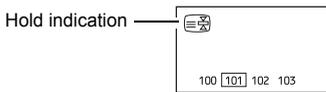


**To exit the List mode:**  
Press the **F.T/L** button again.

## Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

**Press the  $\square$  (Hold) button**



**To cancel the Hold function:**  
Press  $\square$  (Hold) button again.

## Sub-page

Some teletext pages include sub-pages that are automatically displayed. You can hold any sub-page, or view it at any time.

**1 Press the  $\square$  (Favourite) button to operate the Sub-page function**

**2 Press the Number buttons to enter a sub-page number**

Example:

- 3rd sub-page → press **0, 0, 0** and **3**.

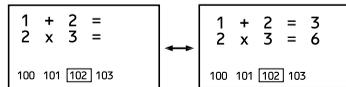
**To cancel the Sub-page function:**

Press the  $\square$  (Favourite) button again.

## Reveal

Some teletext pages include hidden text (such as answers to a quiz). You can display the hidden text.

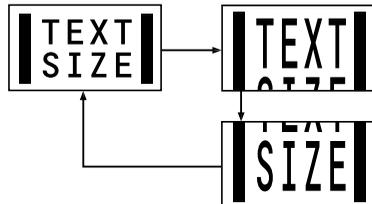
**Each time you press the  $\square$  (Reveal) button, text is hidden or revealed**



## Size

You can double the height of the teletext display.

**Press the  $\square$  (Size) button**



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## Index

---

You can return to the index page instantly.

---

### **Press the (Index) button**

Returns to page 100 or a previously specified page.

---

---

## Cancel

---

You can search for a teletext page while watching TV.

---

### **1 Press the number button to enter a page number, or press a colour button**

The TV searches for a teletext page.

---

### **2 Press (Cancel) button**

The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

---

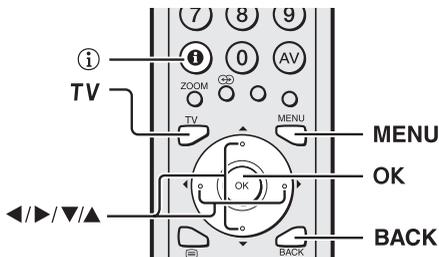
### **3 Press (Cancel) button to return to a teletext page when the page number is on the screen**

- The TV mode cannot be resumed by pressing the  (Cancel) button. To return to the TV mode press **TV**.

# Using the TV's menu

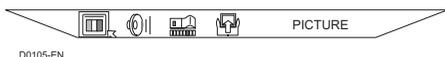
This TV has a number of functions you can operate using menus. To use all your TV's functions, you need to understand the basic menu operating techniques fully.

## Buttons used to operate the menus

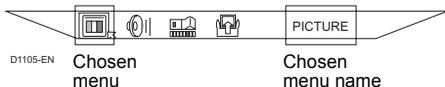


## Basic operation

- 1 Press the **MENU** button to display the menu bar



- 2 Press the **◀/▶** buttons to choose the menu you want to use and then press the **OK** button



- 3 Press the **▼/▲** buttons to choose the item to be set, press the **◀/▶** buttons to set the item, and then press the **OK** button

If there are sub-menus, use the **◀/▶/▼/▲** buttons to operate them.

- Press the **BACK** button to return to the previous menu.
- Press the **TV** or **MENU** button to exit from the menu.
- Some menu items may not be operated or set depending on the TV status or other menu item settings. Menu items that cannot be operated or set are displayed in grey in the menu and cannot be chosen.

## Types of menu



### PICTURE menu

Choose to set the screen settings.



### SOUND menu

Choose to set the sound settings.



### FEATURES menu

Choose to set the sleep timer and child lock settings.



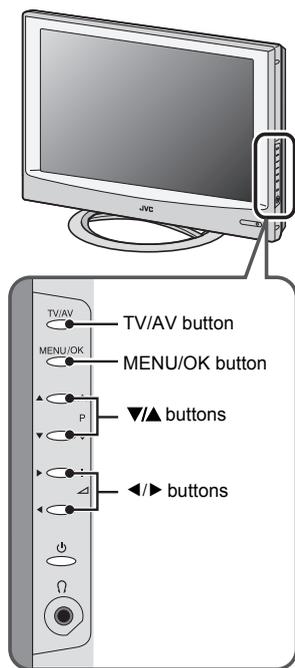
### SET UP menu

Choose to edit the channels or set the display language settings.

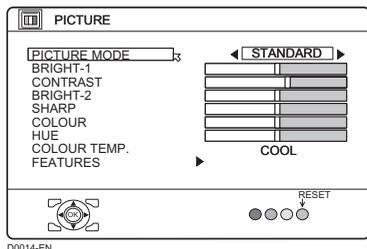
- The menu will disappear after about one minute if no operation is performed.

## Operation with the buttons on the TV

You can also operate the menus using the buttons on the front panel of the TV.



# PICTURE menu



- While the PICTURE menu is displayed, pressing the blue button will set the BRIGHT-1, CONTRAST, BRIGHT-2, SHARP, COLOUR, HUE settings to their default settings.
- When watching the picture from EXT-1 to EXT-4 or the PC, picture effect settings can be memorised for each external input by setting the picture effects in the PICTURE menu.

The following items in the PICTURE menu are memorised.

PICTURE MODE  
BRIGHT-1  
CONTRAST  
BRIGHT-2  
SHARP  
COLOUR  
HUE  
COLOUR TEMP.  
DIGITAL VNR  
COLOUR SYSTEM

The last setting made for each item is memorised.

## PICTURE MODE

You can choose one of three PICTURE MODEs to adjust the picture settings automatically.

### BRIGHT:

Heightens contrast and sharpness.

### STANDARD:

Standardizes picture adjustment.

### SOFT:

Softens contrast and sharpness.

## BRIGHT-1

You can adjust the back light.

◀ : darker

▶ : brighter

## CONTRAST

You can adjust the picture contrast.

◀ : lower

▶ : higher

## BRIGHT-2

You can adjust the picture brightness.

◀ : darker

▶ : brighter

## SHARP

You can adjust the picture sharpness.

◀ : softer

▶ : sharper

## COLOUR

You can adjust the picture colour.

◀ : lighter

▶ : deeper

## HUE

You can adjust the picture tint.

◀ : reddish

▶ : greenish

- You can change the HUE setting (picture hue) when the colour system is NTSC 3.58, or NTSC 4.43.

## COLOUR TEMP.

You can select one of three COLOUR TEMP. modes (three tones of white) to adjust the white balance of the picture. Since white is the colour which is used as a reference for all the other colours, changing the COLOUR TEMP. mode affects the appearance of all the other colours on the screen.

**COOL:**

A bluish white. Using this mode when watching bright pictures allows you to enjoy a more vivid and bright picture.

**NORMAL:**

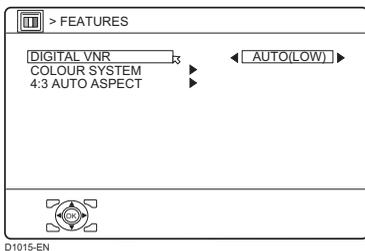
The normal white colour.

**WARM:**

A reddish white. Using this mode when watching films allows you to enjoy colours that are characteristic of films.

**FEATURES**

Choose **FEATURES** and press the **OK** or **▶** button to display the sub-menu.



■ **DIGITAL VNR**

The **DIGITAL VNR** function cuts down the amount of ‘noise’ (‘snow’ or interference) in the original picture.

**ON:**

This function is turned on.

**OFF:**

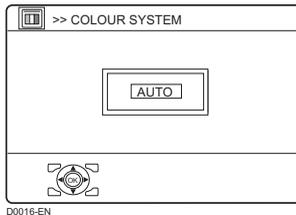
This function is turned off.

■ **COLOUR SYSTEM**

The colour system is chosen automatically. However, if the picture is not clear or no colour appears, choose the colour system manually.

**1 Choose COLOUR SYSTEM. Then press the OK or ▶ button**

The sub-menu of the **COLOUR SYSTEM** function appears.



**2 Press the ▼/▲ buttons to choose the appropriate colour system. Then press the OK button**

**PAL:**

PAL system

**SECAM:**

SECAM system

**NTSC 3.58:**

NTSC 3.58 MHz system

**NTSC 4.43:**

NTSC 4.43 MHz system

**AUTO:**

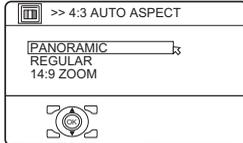
This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or an EXT terminal.

- The **AUTO** function may not function properly if you have poor signal quality. If the picture is abnormal in the **AUTO** function, choose another colour system manually.
- When in the Programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43.
- **COLOUR SYSTEM** cannot be chosen when you are watching the PC picture.

## ■ 4:3 AUTO ASPECT

You can choose one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

- 1 Choose 4:3 AUTO ASPECT then press the OK button

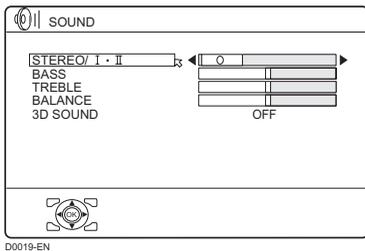


D0017-EN

- 2 Press the ▼/▲ buttons to choose a ZOOM mode

# SOUND menu

---



- When the headphones are connected, only “STEREO / I • II” can be used.

---

## STEREO / I • II

---

When you are viewing a bilingual broadcast programme, you can choose the sound from Bilingual I (Sub I) or Bilingual II (Sub II). If you have poor reception on a stereo broadcast, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

∞: Stereo sound

○: mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the EXT modes.

---

## BASS

---

You can adjust the low tone of the sound.

◀: weaker

▶: strong

---

## TREBLE

---

You can adjust the high tone of the sound.

◀: weaker

▶: strong

---

## BALANCE

---

You can adjust the volume balance between the left and right speaker.

◀: turn the left speaker’s volume level up.

▶: turn the right speaker’s volume level up.

---

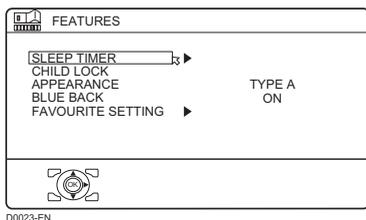
## 3D SOUND

---

You can enjoy Surround sound with a “live” effect by using the 3D SOUND function.

- You can choose a 3D SOUND mode from ON, MONO and OFF modes. For details, see “3D SOUND function” on page 18.
- You can also operate the 3D SOUND function with the  button. For details, see “3D SOUND function” on page 18.

# FEATURES menu

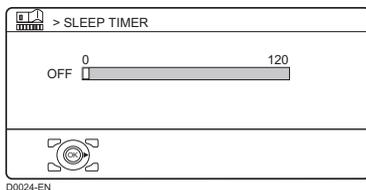


## SLEEP TIMER

You can set the TV to automatically turn off after a set period of time.

### 1 Choose SLEEP TIMER. Then press the OK or ► button

A Sub-menu of the SLEEP TIMER function appears.



### 2 Press the ◀/▶ buttons to set the period of time. Then press the OK button

You can set the period of time for up to 120 minutes (2 hours) in 10 minute steps.

- One minute before the SLEEP TIMER function turns off the TV, “GOODNIGHT!” appears.
- The SLEEP TIMER function cannot be used to turn off the TV’s main power.
- When the SLEEP TIMER function is on, you can display the sub-menu of the SLEEP TIMER function again to confirm or change the remaining period of time of the SLEEP TIMER function. Press the OK button to leave the menu after confirming or changing the remaining time.

### To cancel the SLEEP TIMER function:

Press the ◀ button to set the period of time to “OFF”.

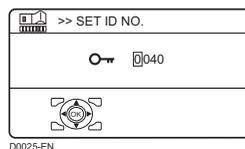
## CHILD LOCK

When there is a TV channel you do not want your children to watch, you can use the CHILD LOCK function to lock out the TV channel. Even when a child chooses a programme number (PR) for a locked TV channel the screen will change to blue and display  (CHILD LOCK) so the TV channel cannot be viewed. Unless you enter a pre-set ID number by a special operation, the lock cannot be released and the child cannot view the TV channel.

### ■ To set the CHILD LOCK function

#### 1 Choose CHILD LOCK, then press the 0 button

“SET ID NO.” (ID number setting screen) appears.



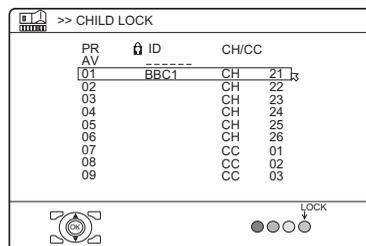
#### 2 Set the ID number to your liking

1 Press the ▼/▲ buttons to choose a number.

2 Press the ◀/▶ buttons to move the cursor.

#### 3 Press the OK button

The Sub-menu of CHILD LOCK appears.



**4 Press the ▼/▲ buttons to choose a TV channel**

Every time you press the ▼/▲ buttons, the Programme number (PR) changes, and the picture of the TV channel registered in the Programme number (PR) is displayed on the screen.

**5 Press the blue button and set the CHILD LOCK function. Then press the OK button**

⏸ (CHILD LOCK) appears and the TV channel is locked.

**To reset the CHILD LOCK function:**

Press the blue button again.

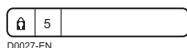
⏸ (CHILD LOCK) disappears.

To disable easy resetting of the CHILD LOCK function, the menu disappears if you choose the CHILD LOCK function and press the **OK** button.

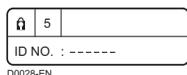
**■ To view a locked TV channel**

**1 Choose a programme number (PR) of a locked TV channel with the number buttons or PR LIST**

The screen changes to blue and the ⏸ (CHILD LOCK) appears. You cannot view the TV channel.



**2 Press the ⓘ (Information) button to display “ID NO.” (ID No. input screen)**



**3 Press the number buttons to enter the ID number**

The lock is temporarily released so you can view the TV channel.

**If you have forgotten the ID number:**

Perform step 1 of “To set the CHILD LOCK function”. After confirming the ID number, press the **TV** button to exit the menu.

- Even if you reset the lock temporarily, it does not mean that the CHILD LOCK function set for the TV channel is cancelled. The next time anyone tries to view the TV channel, it will be locked again.
- When you want to cancel the CHILD LOCK function, you must perform the operation “To set the CHILD LOCK function” again.
- To stop it being easy to choose the programme number (PR) of a locked TV channel, the programme number (PR) has been set so that it cannot be chosen with the ▼/▲ buttons or the buttons of the TV.
- To stop it being easy to reset the lock, “ID NO.” (ID No. input screen) is set so that it cannot appear unless you press the ⓘ (Information) button.

**APPEARANCE**

Press the ◀/▶ button and choose the format in which the channel number is displayed from two types: TYPE A and TYPE B.

**BLUE BACK**

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.

**ON:**

This function is turned on.

**OFF:**

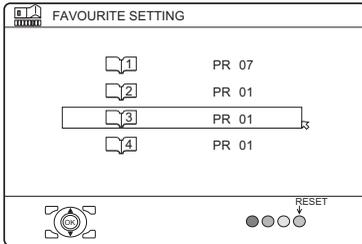
This function is turned off.

## FAVOURITE SETTING

Chose when deleting the favourite channels registered in the buttons 1 to 4.

### 1 Choose FAVOURITE SETTING, then press the OK or ► button

The FAVOURITE SETTING menu appears.



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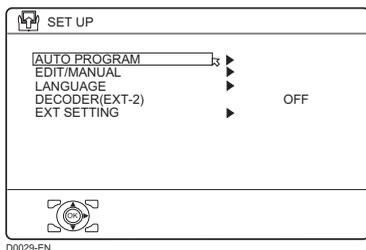
### 2 Press the ▼/▲ buttons and chose the favourite channel that you want to delete

### 3 Press the blue button

The chosen favourite channel and set contents are deleted.

- For details of the favourite channels, see “Favourite channel function” on page 19.

# SET UP menu

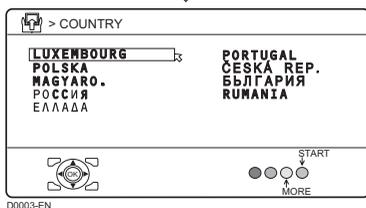


## AUTO PROGRAM

You can again perform the AUTO PROGRAM function TV channel automatic registration which was performed in the “Initial settings” (page 7).

### 1 Choose AUTO PROGRAM, then press the OK or ► button

The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function. There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:



### 2 Press the ◀/▶ and ▼/▲ buttons to choose the country where you are

### 3 Perform steps 5 and 6 of the “Initial settings” (page 8)

## EDIT/MANUAL

The EDIT/MANUAL functions are divided into two types:

- editing the current programme numbers (PR) (EDIT functions); and
- manually storing a TV channel you want to view on a particular programme number (PR) (MANUAL function).

Here are the details about these functions:

### MOVE:

This function changes the programme number (PR) of a TV channel.

### ID:

This function registers a channel name (ID) to a TV channel.

### INSERT:

This function adds a new TV channel in the current programme numbers (PR) list by using the CH/CC number.

- You cannot use the INSERT function if you do not know the channel number of a TV channel. Use the MANUAL function to register a TV channel in the programme number (PR).

### DELETE:

This function deletes a TV channel you do not want to list.

### MANUAL:

This function manually stores a new TV channel in a programme number (PR).

## Caution

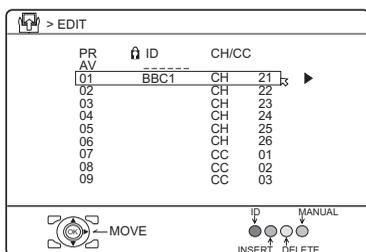
- Using the MOVE, DELETE or INSERT functions rewrites the current programme numbers (PR) list. Therefore, the programme numbers (PR) of some of the TV channels will change.
- Using the MANUAL function for a TV channel for which the CHILD LOCK function has been set cancels the CHILD LOCK function for that channel.

- Using the MANUAL function for a TV channel for which the DECODER (EXT-2) function has been set to ON returns the setting of the DECODER (EXT-2) function for that channel to OFF.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes that TV channel.

## Basic operation

### 1 Choose EDIT/MANUAL, then press the OK or ► button

The EDIT menu appears.

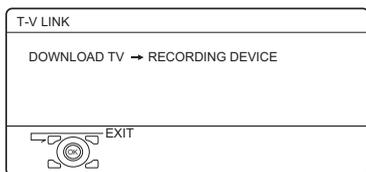


D0038-EN

### 2 Follow the description for the function you want to use

### 3 Press the OK button to complete the settings

The T-V LINK menu appears.



D0005-EN

### If you do not have a T-V LINK compatible VCR connected:

Press the **TV** button to exit the T-V LINK menu.

The T-V LINK menu disappears.

### If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:

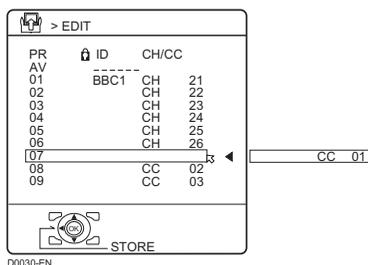
Follow “Downloading the data to VCR” on page 10 to transmit the programme number (PR) data.

- For programme number PR 0, “AV” appears in the programme numbers (PR) list.
- An EXT terminal number does not appear in the programme numbers (PR) list.

## MOVE

### 1 Press the ▼/▲ buttons to choose a TV channel

### 2 Press the ► button to start the MOVE function



D0030-EN

### 3 Press the ▼/▲ buttons to choose a new programme number (PR)

To cancel the MOVE function:  
Press the **BACK** button.

### 4 Press the ◀ button to change the programme number (PR) of a TV channel to a new programme number (PR)

## DELETE

### 1 Press the ▼/▲ buttons to choose a TV channel

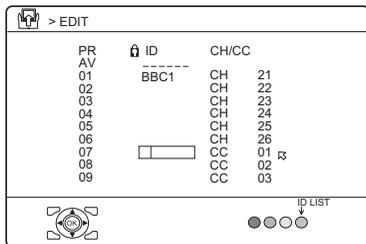
### 2 Press the yellow button to delete the TV channel

The TV channel is deleted from the programme numbers (PR) list.

■ ID

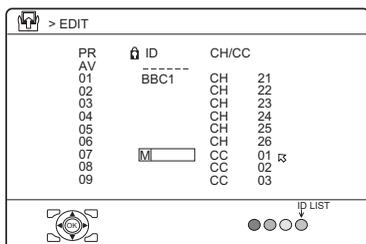
1 Press the ▼/▲ buttons to choose a TV channel

2 Press the red button to start the ID function



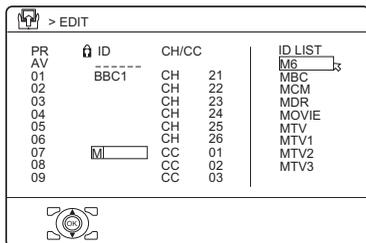
D0031-EN

3 Press the ▼/▲ buttons to choose the first character of a channel name (ID) you want to give the TV channel



D0032-EN

4 Press the blue button to display the ID LIST (channel name list)



D0033-EN

5 Press the ▼/▲ buttons to choose the channel name (ID)

To cancel the ID function:  
Press the **BACK** button.

6 Press the **OK** button to give a channel name (ID) to a TV channel

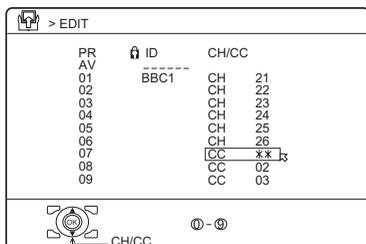
- You can give your own unique channel name (ID) to the TV channel. When you have finished step 3, do not go to step 4. Press the ◀/▶ buttons to move the cursor, and press the ▼/▲ buttons to choose each character of the channel name (ID). Then press the **OK** button to register the channel name (ID) to the TV channel.

**Before performing INSERT or MANUAL operation**

- If you register the TV channel (SECAM-L system) from a French station, be sure to set the COUNTRY setting to FRANCE. If the COUNTRY setting is not set to FRANCE, perform steps 1 and 2 of the “AUTO PROGRAM” (page 32) procedure and set the COUNTRY setting to FRANCE before pressing the **OK** button.
- A CH/CC number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH/CC number from a table “CH/CC numbers” on page 44 based on the Channel number of the TV channel.
- When the COUNTRY setting is not FRANCE, use a two-digit CH/CC number. When the COUNTRY setting is FRANCE, use a three-digit CH/CC number.

## ■ INSERT

- 1 Press the **▼/▲** buttons to choose a programme number (PR) for which you will register a new TV channel
- 2 Press the green button and start the INSERT function



D0034-EN

**To cancel the INSERT function:**  
Press the **BACK** button.

- 3 Press the **▼/▲** buttons to choose “CH” or “CC”, then enter the remaining CH or CC number
- When the COUNTRY setting is FRANCE:**  
Choose “CH1”, “CH2”, “CC1” or “CC2”.

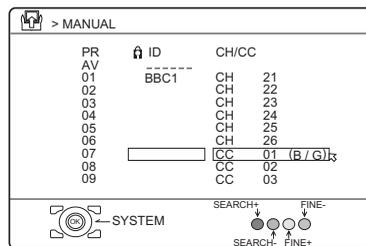
The TV shifts to registration mode.  
When the registration is completed, the picture of the TV channel appears on the screen.

- The CH/CC number is a number given to each broadcast frequency that carries a TV channel. If the TV cannot detect the TV channel corresponding to the broadcast frequency indicated by the CH/CC number, a “no-signal” picture appears.

## ■ MANUAL

- 1 Press the **▼/▲** buttons to choose a programme number (PR) for a new TV channel
- 2 Press the blue button to activate the MANUAL function

At the right side following the CH/CC number, the SYSTEM (broadcasting system) of the TV channel appears.



D0035-EN

**To cancel the MANUAL function:**  
Press the **BACK** button.

- 3 Press the **▶** button to choose the **SYSTEM (broadcasting system)** for a TV channel you want to register
- TV channel (SECAM-L system) from a French station:**  
Set the SYSTEM to “L”. If it is set to one other than “L”, you cannot receive the TV channel of the SECAM-L system.
- Other TV channels:**  
If you do not know the correct broadcasting system, set the SYSTEM to “B/G”. If “B/G” is not correct, you will not hear the sound normally when the TV detects a TV channel. In this case, retry to set the SYSTEM correctly so that no problem arises.

**4 Press the green or red button to search for a TV channel**

Scanning stops when the TV finds a TV channel. Then the TV channel is displayed.

**5 Press the green or red button repeatedly until the TV channel you want appears**

**If the TV channel reception is poor:**  
Press the blue or yellow button to fine-tune the TV channel.

**6 Press the OK button and register the TV channel to a Programme number (PR)**

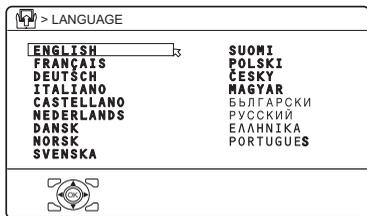
The normal EDIT menu is resumed.

**LANGUAGE**

The LANGUAGE setting which was performed in the “Initial settings” (page 7) can be changed.

**1 Choose LANGUAGE, then press the OK or ► button**

A sub-menu of the LANGUAGE function appears.



D0002-EN

**2 Press the ◀/▶ and ▼/▲ buttons to choose a language. Then press the OK button**

**DECODER (EXT-2)**

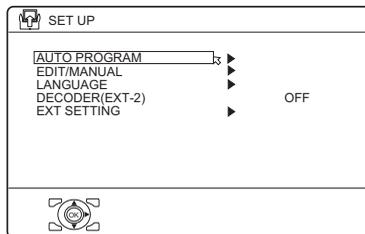
If you have a decoder connected to a T-V LINK compatible VCR, which in turn is connected to the EXT-2 terminal, use the DECODER (EXT-2) function to unscramble the scrambled TV channels.

**1 Turn on the decoder power**

**2 Display the scrambled TV channel on the TV**

Even if the decoder is working, a scrambled picture appears.

**3 Display the SET UP menu and choose DECODER (EXT-2)**



D0029-EN

**4 Press the ◀/▶ buttons to choose ON**

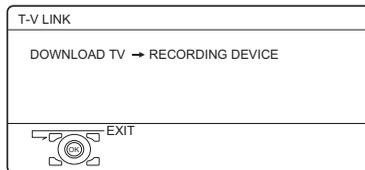
An unscrambled picture appears.

**To cancel the DECODER (EXT-2) function:**

Press the ◀/▶ buttons to choose OFF.

**5 Press the OK button to complete the setting**

The T-V LINK menu appears.



D0005-EN

You can send the programme numbers data to a VCR with the T-V LINK function.

## 6 Turn on the VCR, and then press the OK button to transmit the data to VCR

The T-V LINK menu disappears once the data transmission ends.

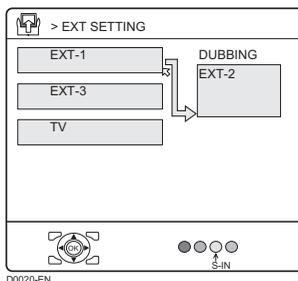
If the DECODER (EXT-2) function has been set to “ON” but the TV channel cannot be unscrambled, check the following:

- Has the decoder been connected to the VCR properly according to the VCR and decoder instruction manuals?
- Has the decoder power been turned on?
- Can the TV channel be unscrambled with a decoder?
- Do you need to change the VCR settings in order to connect the decoder? Confirm that the VCR is set properly by rechecking the VCR instruction manual.

## EXT SETTING

### 1 Choose EXT SETTING, then press the OK or ► button

The EXT SETTING menu appears.



### 2 Follow the instructions for the function you want to use and operate the function

#### S-IN:

You can enjoy the high-quality picture of the S-VIDEO signal (Y/C signal).

#### ID LIST:

You can have a name for each of the devices connected for each EXT terminal.

#### DUBBING:

You can choose a signal source to be output from an EXT-2 terminal.

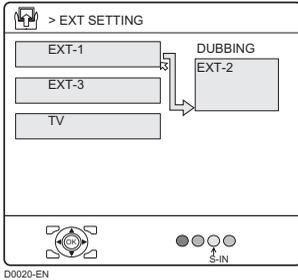
### ■ S-IN (S-VIDEO input)

You can connect a device (such as an S-VHS VCR) to enjoy the high-quality picture of the S-VIDEO signal (Y/C signal).

#### Preparation:

- First read the device’s instruction manual and “Additional preparation” on page 41 to connect the device to the TV properly. Second, follow the device’s instruction manual to set the device so that it sends an S-VIDEO signal (Y/C signal) to the TV.
- Do not set S-IN (S-VIDEO input) to an EXT terminal connected to a device which cannot output an S-VIDEO (Y/C signal).

**1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal**



**2 Press the yellow button and set the S-IN (S-VIDEO input). Then press the OK button**

An S-IN (S-VIDEO input) mark is displayed. You can view an S-VIDEO signal (Y/C signal) instead of the regular video signal (composite signal).

**To cancel the S-IN (S-VIDEO input) setting:**

Press the yellow button and turn off S-IN (S-VIDEO input) mark. The regular video signal (composite signal) pictures are resumed.

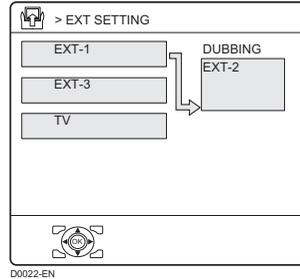
- Setting S-IN (S-VIDEO input) changes the head character from “E” to “S”. When an EXT terminal receives a normal video signal, “E1”, “E2” or “E3” appears on the display. This changes to “S1”, “S2” or “S3” when it receives an S-VIDEO signal.
- Even a device which can output an S-VIDEO signal (Y/C signal) may output a regular video signal (composite signal) depending on the device setting. If a picture cannot appear because the S-IN (S-VIDEO input) setting has been made, read the device instruction manual carefully again to check for the device settings.

**■ DUBBING**

You can choose a signal source to be output from the EXT-2 terminal.

You can do this with the output signals of the devices connected to other EXT terminals, or with the picture and sound from a TV channel you are currently viewing.

**1 Press the ◀/▶ buttons to choose the arrow from the menu**



**2 Press the ▼/▲ buttons to choose an EXT terminal or TV. Then press the OK button**

The arrow in the menu represents a signal flow. The left side of the arrow shows a signal source output from the EXT-2 terminal.

**EXT-1/EXT-3:**

The output signal of the device connected to an EXT terminal passes through the TV and is output from the EXT-2 terminal.

**TV:**

The picture and sound of the TV channel you are currently viewing are output from the EXT-2 terminal.

- 
- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
  - When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal onto a VCR connected to the EXT-2 terminal.
  - The RGB signals from TV games cannot be output. Teletext programmes cannot be output.
-

# Displaying a computer screen

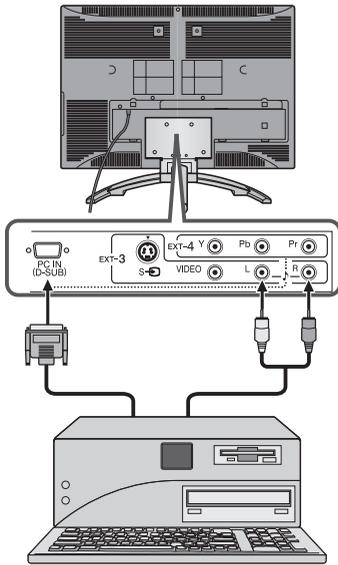
This TV can be used as a computer screen.

## Connecting to the computer

Use a D-SUB cable to connect the TV's PC IN terminal to the computer's analogue RGB output terminal.

If you want to listen to the sound from the computer, use an audio cable to connect the EXT-3 L/R terminal to the computer's sound output terminal.

When the sound from the computer is mono, connect to the EXT-3 L terminal.



- Refer to the computer manual for a detailed explanation of the connections at the computer side.
- Ensure that the connectors are facing the correct way when connecting.
- After connecting the D-SUB cable, tighten the two screws to fix the connector in place.

## Watching images from a computer

**After starting the computer, press the AV or P V/Λ buttons to choose "PC"**

"PC" is after EXT-4.

You can listen to the sound when the sound from the computer is connected to the EXT-3 L/R terminal.

- When the sound from the computer is connected to EXT-3, by choosing external input EXT-3 the sound from the computer can be listened to, but the images from the computer cannot be seen.

## Table of signals for each type of computer

Resolution	Vertical frequency (Hz)	Horizontal frequency (kHz)
640 × 480 (VGA)	60.0	31.5
1024 × 768 (XGA)	60.0	42.0

\* Only the above formats are supported.

\* Even with the above formats and at 60 Hz, some problems may be experienced depending on the quality of the synchronous signal. (Depending on the quality, some pictures may not be displayed properly.)

\* Apple Macintosh\* computers are not supported.

### When a picture is not displayed

Check the computer's refresh rate and set it to 60 Hz. Refer to the computer's instruction manual.

Computers which cannot have their refresh rate set to 60 Hz cannot be used with this unit.

\* Apple Macintosh is a registered trademark of Apple Computer, Inc.

# Additional preparation

## Connecting external equipment

Connect the equipment to the TV, making the correct rear panel and front panel connections.

### Before connecting anything:

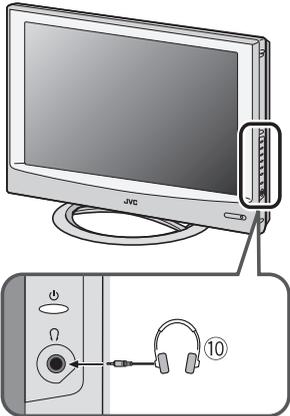
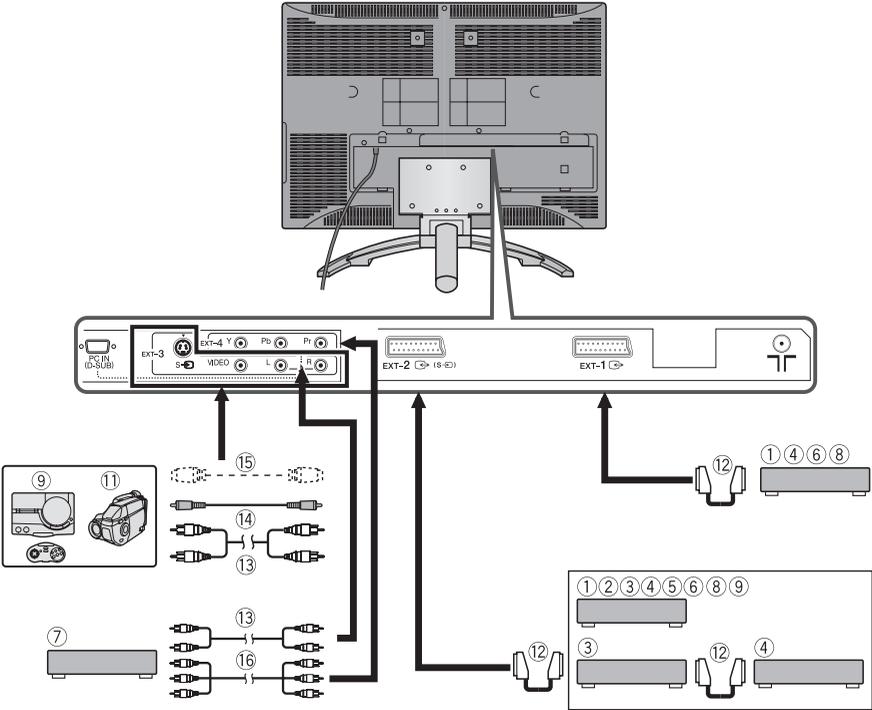
- Read the manuals that came with the equipment. Depending on the equipment, the connection method may be different from the diagram. Also, the equipment settings may need to change depending on the connection method.
- Turn off all the equipment including the TV.
- The “Specifications” on page 49 give the details of the EXT terminals. If you are connecting equipment not listed in the following connection diagram, see the table to choose the best EXT terminal.
- Connecting cables are not supplied.

### ■ Connecting the PC

For details, see “Connecting to the computer” on page 40.

- ① VCR (composite signal)
- ② VCR (composite signal/S-VIDEO signal)
- ③ T-V LINK compatible VCR (composite signal/S-VIDEO signal)
- ④ Decoder
- ⑤ DVD player (composite signal/S-VIDEO signal)
- ⑥ DVD player (composite signal/RGB signal)
- ⑦ DVD player (component video signals; Y/Pb/Pr)
- ⑧ TV game (composite signal/RGB signal)
- ⑨ TV game (composite signal/S-VIDEO signal)
- ⑩ Headphones
- ⑪ Camcorder (composite signal/S-VIDEO signal)
- ⑫ SCART cable
- ⑬ Audio cable
- ⑭ Video cable
- ⑮ S-VIDEO cable
- ⑯ Component cable

without terminal covers



### ■ Equipment which can output the S-VIDEO signal (Y/C signal) such as an S-VHS VCR

Connect the equipment to an EXT terminal other than EXT-1/EXT-4.

You can choose between an S-VIDEO signal (Y/C signal) and a regular video signal (composite signal). For details of how to operate the equipment, see “S-IN (S-VIDEO input)” on page 37.

### ■ T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the EXT-2 terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the EXT-2 terminal, be sure to connect the decoder to the VCR. If not, the T-V LINK function may not work properly.
- When you connect the decoder to the VCR, after you have stored TV channels in the programme numbers (PR) list, set the DECODER (EXT-2) function for the programme number (PR) to ON to unscramble a scrambled TV channel. For details, see “DECODER (EXT-2)” on page 36.

### ■ Connecting headphones

Connect the headphones with a stereo mini-jack (3.5 mm diameter) to the headphone socket at the TV rear panel.

- No sound comes from the TV speakers when the headphones are connected.

### ■ Video or sound signal output from the EXT-2 terminal

You can change over the output of the video/sound signal from the EXT-2 terminal. This is useful when you want to dub the video/sound from another device onto the VCR connected to the EXT-2 terminal. For details on how to do this, see “DUBBING” on page 38.

- The signals from EXT-4 and PC IN terminal cannot be output from EXT-2.

### ■ TV output from the EXT-1 terminal

The video/sound signal of a TV channel you are viewing is always output from the EXT-1 terminal.

- Changing over a programme number (PR) also changes over the TV output from the EXT-1 terminal.
- The video/sound signal from an EXT terminal cannot be output.
- Teletext programmes cannot be output.

# CH/CC numbers

When you want to use the INSERT function on page 35, find the CH/CC number corresponding to the Channel number of the TV channel from this table.

CH	Channel	CH	Channel	CC	Channel	CC	Channel
CH 02 / CH 202	E2, R1	CH 40 / CH 240	E40, R40	CC 01 / CC 201	S1	CC 31 / CC 231	S31
CH 03 / CH 203	E3, ITALY A	CH 41 / CH 241	E41, R41	CC 02 / CC 202	S2	CC 32 / CC 232	S32
CH 04 / CH 204	E4, ITALY B, R2	CH 42 / CH 242	E42, R42	CC 03 / CC 203	S3	CC 33 / CC 233	S33
CH 05 / CH 205	E5, ITALY D, R6	CH 43 / CH 243	E43, R43	CC 04 / CC 204	S4	CC 34 / CC 234	S34
CH 06 / CH 206	E6, ITALY E, R7	CH 44 / CH 244	E44, R44	CC 05 / CC 205	S5	CC 35 / CC 235	S35
CH 07 / CH 207	E7, ITALY F, R8	CH 45 / CH 245	E45, R45	CC 06 / CC 206	S6	CC 36 / CC 236	S36
CH 08 / CH 208	E8, R9	CH 46 / CH 246	E46, R46	CC 07 / CC 207	S7	CC 37 / CC 237	S37
CH 09 / CH 209	E9, ITALY G	CH 47 / CH 247	E47, R47	CC 08 / CC 208	S8	CC 38 / CC 238	S38
CH 10 / CH 210	E10, ITALY H, R10	CH 48 / CH 248	E48, R48	CC 09 / CC 209	S9	CC 39 / CC 239	S39
CH 11 / CH 211	E11, ITALY H+1, R11	CH 49 / CH 249	E49, R49	CC 10 / CC 210	S10	CC 40 / CC 240	S40
CH 12 / CH 212	E12, ITALY H+2, R12	CH 50 / CH 250	E50, R50	CC 11 / CC 211	S11	CC 41 / CC 241	S41
CH 21 / CH 221	E21, R21	CH 51 / CH 251	E51, R51	CC 12 / CC 212	S12	CC 75 / CC 275	X
CH 22 / CH 222	E22, R22	CH 52 / CH 252	E52, R52	CC 13 / CC 213	S13	CC 76 / CC 276	Y, R3
CH 23 / CH 223	E23, R23	CH 53 / CH 253	E53, R53	CC 14 / CC 214	S14	CC 77 / CC 277	Z, ITALY C, R4
CH 24 / CH 224	E24, R24	CH 54 / CH 254	E54, R54	CC 15 / CC 215	S15	CC 78 / CC 278	Z+1, R5
CH 25 / CH 225	E25, R25	CH 55 / CH 255	E55, R55	CC 16 / CC 216	S16	CC 79 / CC 279	Z+2
CH 26 / CH 226	E26, R26	CH 56 / CH 256	E56, R56	CC 17 / CC 217	S17		
CH 27 / CH 227	E27, R27	CH 57 / CH 257	E57, R57	CC 18 / CC 218	S18		
CH 28 / CH 228	E28, R28	CH 58 / CH 258	E58, R58	CC 19 / CC 219	S19		
CH 29 / CH 229	E29, R29	CH 59 / CH 259	E59, R59	CC 20 / CC 220	S20		
CH 30 / CH 230	E30, R30	CH 60 / CH 260	E60, R60	CC 21 / CC 221	S21		
CH 31 / CH 231	E31, R31	CH 61 / CH 261	E61, R61	CC 22 / CC 222	S22		
CH 32 / CH 232	E32, R32	CH 62 / CH 262	E62, R62	CC 23 / CC 223	S23		
CH 33 / CH 233	E33, R33	CH 63 / CH 263	E63, R63	CC 24 / CC 224	S24		
CH 34 / CH 234	E34, R34	CH 64 / CH 264	E64, R64	CC 25 / CC 225	S25		
CH 35 / CH 235	E35, R35	CH 65 / CH 265	E65, R65	CC 26 / CC 226	S26		
CH 36 / CH 236	E36, R36	CH 66 / CH 266	E66, R66	CC 27 / CC 227	S27		
CH 37 / CH 237	E37, R37	CH 67 / CH 267	E67, R67	CC 28 / CC 228	S28		
CH 38 / CH 238	E38, R38	CH 68 / CH 268	E68, R68	CC 29 / CC 229	S29		
CH 39 / CH 239	E39, R39	CH 69 / CH 269	E69, R69	CC 30 / CC 230	S30		

CH	Channel	CH	Channel	CC	Frequency (MHz)	CC	Frequency (MHz)
CH 102	F2	CH 141	F41	CC 110	116 - 124	CC 152	391 - 399
CH 103	F3	CH 142	F42	CC 111	124 - 132	CC 153	399 - 407
CH 104	F4	CH 143	F43	CC 112	132 - 140	CC 154	407 - 415
CH 105	F5	CH 144	F44	CC 113	140 - 148	CC 155	415 - 423
CH 106	F6	CH 145	F45	CC 114	148 - 156	CC 156	423 - 431
CH 107	F7	CH 146	F46	CC 115	156 - 164	CC 157	431 - 439
CH 108	F8	CH 147	F47	CC 116	164 - 172	CC 158	439 - 447
CH 109	F9	CH 148	F48	CC 123	220 - 228	CC 159	447 - 455
CH 110	F10	CH 149	F49	CC 124	228 - 236	CC 160	455 - 463
CH 121	F21	CH 150	F50	CC 125	236 - 244	CC 161	463 - 469
CH 122	F22	CH 151	F51	CC 126	244 - 252		
CH 123	F23	CH 152	F52	CC 127	252 - 260		
CH 124	F24	CH 153	F53	CC 128	260 - 268		
CH 125	F25	CH 154	F54	CC 129	268 - 276		
CH 126	F26	CH 155	F55	CC 130	276 - 284		
CH 127	F27	CH 156	F56	CC 131	284 - 292		
CH 128	F28	CH 157	F57	CC 132	292 - 300		
CH 129	F29	CH 158	F58	CC 133	300 - 306		
CH 130	F30	CH 159	F59	CC 141	306 - 311		
CH 131	F31	CH 160	F60	CC 142	311 - 319		
CH 132	F32	CH 161	F61	CC 143	319 - 327		
CH 133	F33	CH 162	F62	CC 144	327 - 335		
CH 134	F34	CH 163	F63	CC 145	335 - 343		
CH 135	F35	CH 164	F64	CC 146	343 - 351		
CH 136	F36	CH 165	F65	CC 147	351 - 359		
CH 137	F37	CH 166	F66	CC 148	359 - 367		
CH 138	F38	CH 167	F67	CC 149	367 - 375		
CH 139	F39	CH 168	F68	CC 150	375 - 383		
CH 140	F40	CH 169	F69	CC 151	383 - 391		

- 
- When two CH/CC numbers correspond to one Channel number, choose either one according to the current COUNTRY setting. When the COUNTRY setting is other than FRANCE, choose a two-digit CH/CC number. When the COUNTRY setting is FRANCE, choose a three-digit CH/CC number.
  - Find the CH/CC number (CC110 to CC161) corresponding to the TV channel (SECAM-L system) from a French cable TV station, based on the broadcast frequency of the TV channel. When you do not know the broadcast frequency, please contact the cable TV station.
  - The CH/CC numbers of CH102-CH169 and CC110-CC161 correspond to the TV channels being broadcast by a SECAM-L system. The other CH/CC numbers correspond to the TV channels being broadcast by a method other than a SECAM-L system.
-

# Troubleshooting

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If a problem arises while you are using the TV, please read this troubleshooting guide carefully before you ask to have the TV repaired. You may be able to fix it easily by yourself. For example, if the mains plug is disconnected from the mains outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

## **Important:**

- This troubleshooting guide only covers problems whose causes are not easy to decide. If you have a question when you are operating a function, read the page(s) for that function carefully, not this troubleshooting guide.
- If you follow the advice in this troubleshooting guide without any success, unplug the mains plug and ask for your TV to be repaired. Do not attempt to repair the TV by yourself or to remove the rear cover of the TV.

## **■ If you cannot turn on the TV**

- Is the mains plug connected to the mains outlet?
- Is the power lamp lit? If not, press the  button on the TV.
- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

## **■ If you cannot turn off the TV**

- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV off when the VCR/TV/DVD switch is set to the VCR or DVD position.

## **■ No picture or no sound**

- Have you chosen a TV channel with very poor reception? If so, the BLUE BACK function will be activated: the entire screen becomes blue, and the sound is muted. If you still want to view the TV channel, follow the description “BLUE BACK” on page 30 to change the BLUE BACK function setting to OFF.
- If the SYSTEM setting for a TV channel is incorrect, it may prevent the sound from being issued. Follow the description “EDIT/MANUAL” on page 32 to use the MANUAL function to try to change the SYSTEM setting.

## **■ Poor picture**

- If noise (snow) totally blocks out the picture, there may be a problem with the aerial or aerial cable. Check the following to try to solve the problem:
  - Have the TV and aerial been connected properly?
  - Has the aerial cable been damaged?
  - Is the aerial pointing in the right direction?
  - Is the aerial itself faulty?
- If the TV or aerial suffers interference from other equipment, stripes or noise may appear in the picture. Move any equipment such as an amplifier, personal computer, or a hair drier, that can cause interference away from your TV. Or try moving the TV. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.
- If the TV suffers interference from signals reflecting from mountains or buildings, double-pictures (ghosting) will occur. Try to change the aerial’s direction or replace it with one with better directionality.
- Are your COLOUR SYSTEM settings correct? Follow the description “COLOUR SYSTEM” on page 26 to try to solve the trouble.
- Have the COLOUR and BRIGHT settings been adjusted properly? Follow the description “BRIGHT-2” and “COLOUR” on page 25 to try to adjust them properly.

- Videotaping teletext is not recommended because it may not record correctly.
- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal. There is nothing wrong with the TV.
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with progressive-scanning component signals. If this occurs, change the output setting of the connected device to interlace-scanning component signal output. See the instructions that came with the device for more information.

■ **Poor sound**

- Have you adjusted BASS or TREBLE properly? If not, follow the description “BASS” or “TREBLE” on page 28.
- When TV channel reception is poor, it can be hard to hear stereo or bilingual sound. In this case, follow the description “STEREO / I • II” on page 28 to hear the sound more easily by changing it to a mono sound.

■ **If the TV does not respond to the remote control**

- Have the batteries of the remote control worn out? Follow the description “Putting the batteries into the remote control” on page 7 and replace them with new batteries.
- Have you attempted to use the remote control from the sides or rear of the TV or from more than seven metres away from the TV? Use the remote control in front of your TV or from less than seven metres away.
- When you are viewing a teletext programme, you cannot operate the menus. Press the **TV** button to return to the ordinary TV programme, and then try operating the menus.
- If the TV suddenly stops responding, disconnect the power cord of the TV from the AC outlet. Connect them to the AC outlet again to turn on the TV. If the TV returns to a normal state, it is not a failure.

■ **Other issues**

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV suddenly turns off, try to press the **⏻/I** (standby) button to turn on the TV once again. If the TV goes back to normal, there is no problem.
- When the TV is receiving a wide-screen signal (WSS) or a signal from an external device affecting the screen size, the ZOOM mode automatically changes. When you want to resume the previous ZOOM mode, press the **ZOOM** button again.
- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a fault. This is the time needed for the image to stabilize before it can be displayed.
- The TV may make a crackling sound due to a sudden change in temperature. The picture or sound may be normal. If you hear crackling sounds frequently while you are viewing the TV, there may be other causes. As a precaution, ask your service technician to inspect it.

- The top of the TV and the screen may become hot during use but this has no affect on the performance of the TV. Make sure that the ventilation holes are not blocked.
- When the picture is unstable, the screen may become white for a moment. This happens when the signal which drives the liquid crystal is missing. This is not a fault.
- When a still image has been displayed for a long period, a faint residual image may remain on the screen for a short time after the power has been turned off or when another image is displayed. This is not a fault and the image will eventually disappear.

# Specifications

Model	LT-26A60BU/LT-26A60SU
Broadcasting systems	CCIR B/G, I, D/K, L
Colour systems	PAL, SECAM • The EXT terminals also support the NTSC 3.58/4.43 MHz system.
Channels and frequencies	F2-F10, F21-F69, 116-172, E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, A-H, H+1, H+2, R1-R12, R21-R69 • French cable TV channel of broadcast frequencies 116 - 172 MHz and 220 - 469 MHz.
Sound-multiplex systems	NICAM (B/G, I, D/K, L) system, A2 (B/G, D/K) system
Teletext systems	FLOF (Fastext), TOP, WST (World Standard System)
Power requirements	110 - 240 V AC, 50/60 Hz
Power consumption	125 W (Standby: 2.0 W)
Screen size	Viewable area 66 cm (measured diagonally)
Audio output	Rated Power output: 5 W + 5 W
Speakers	6.6 cm round × 2
EXT-1 terminal	Euroconnector (21-pin, SCART) • Video input, Audio L/R inputs and RGB inputs are available. • TV broadcast outputs (Video and Audio L/R) are available.
EXT-2 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available. • T-V LINK functions are available.
EXT-3 terminal	RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.
EXT-4 terminal	RCA connectors × 3 + EXT-3 L/R • Component video (Y, Pb, Pr) input and Audio L/R inputs are available. • 625p, 525p, and 750p signals are available. 750p signal is only available for 60Hz. • Some DVD players can output 625p, 525p and 750p signals. • 750p are new high-definition signals.
PC INPUT terminal	Analog RGB D-SUB (15 pin) × 1 • PC signal is available. Refer to page 40 for details of the signals which can be input.
Headphone jack	Stereo mini-jack (3.5 mm in diameter)
Dimensions (W × H × D)	686 mm × 525 mm × 225 mm 686 mm × 474 mm × 121.5 mm (without stand)
Weight	15.6 kg 12.4 kg (without stand)
Accessories	Remote control unit × 1 (RM-C1816S) AA/R6 dry cell battery × 2

## We may change the design and specifications without notice.

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this would be an infringement of copyright.

**JVC**



**JVC**

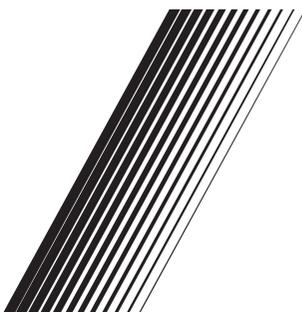
InteriArt

**LT-26A60SJ**

***T-V LINK***

**WIDE LCD PANEL TV**

**INSTRUCTIONS**



## ■ Warning

**DO NOT cut off the mains plug from this equipment.** If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If a new mains plug has to be fitted, then follow the instruction given below:

### Important

**Do not** make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol  $\perp$  or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As these colours may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

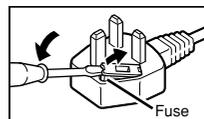
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

When replacing the fuse, use only a correctly rated approved type and always re-fit the fuse cover.

## ■ If in doubt — consult a competent electrician.

### How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.



## ■ Guidelines for safe operation

This equipment has been designed and manufactured to comply with international safety standards. However, as with any electrical appliance, care must be taken to ensure optimal results and operational safety.

- Before attempting to use this equipment, read the operating instructions thoroughly.
- Ensure that all electrical connections (including the mains plug, extension leads, etc.) have been made in accordance with the manufacturer's instructions.
- If ever in doubt about the installation, operation or safety of this equipment, consult your dealer.
- Handle all glass panels or covers with care.
- Never operate this equipment if it appears damaged or operates abnormally. Turn the power off, disconnect the main power plug and consult your dealer.
- Never remove any affixed panels or covers. Doing so may result in electrical shock.
- Never leave this equipment operating unattended unless otherwise specifically stated that it is designed to do so or in standby mode. Only use the designated power switch to turn off the power and ensure that all potential users are instructed how to do so. Make special arrangements for infirm or handicapped persons.
- Never watch TV while operating a motor vehicle. It is illegal to watch TV while driving.
- Never listen to headphones at high volume. Doing so may damage your hearing.
- Never obstruct the ventilation of this equipment. Doing so may cause overheating and result in a malfunction or damage.
- Never use makeshift stands or attempt to affix legs with wood screws. When using a manufacturer's approved stand or legs, use only the fixtures provided and follow the installation instructions.
- Never allow this equipment to be exposed to rain or moisture.
- Never allow anyone, especially children, to insert anything into an opening in the case. Doing so may result in a fatal electrical shock.
- Never guess or take chances with electrical equipment of any kind. It is better to be safe than sorry.

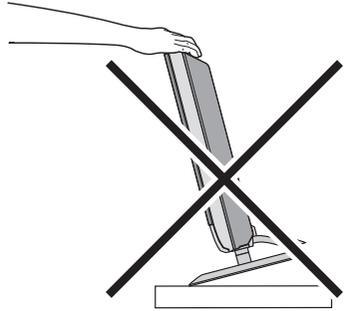
Thank you for buying this JVC LCD flat television.

To make sure you understand how to use your new TV, please read this manual thoroughly before you begin. ("LCD" stands for Liquid Crystal Display.)

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

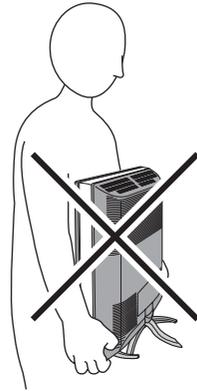
## WARNING

- The TV may fall causing injuries. Hold the bottom of the stand with your hand and tilt the TV up and down.
- Do not allow children to hang from the TV, place their elbows on the TV or lean against the TV. Doing so may cause the TV to fall over and lead to injuries.



## CAUTION

- The TV screen may be damaged if the TV is carried as shown in the diagram below. The TV should always be carried by two people.



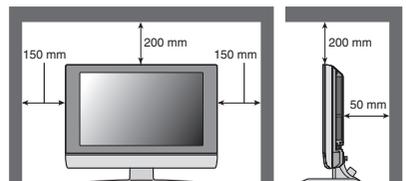
### Pixel defects

LCDs use collections of fine points ("pixels") to display images. While there is no problem with more than 99.99% of these pixels, please understand that a very small number of pixels may not light, or may light all the time.

### Distance recommendations

Avoid improper installation and never position the unit where good ventilation is impossible.

When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture. Keep to the minimum distance guidelines shown for safe operation.



**Failure to take the following precautions may cause damage to the television or remote control.**

**DO NOT block the TV's ventilation openings or holes.**

(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

**DO NOT place anything on top of the TV.**

(such as cosmetics or medicines, flower vases, potted plants, cups, etc.)

**DO NOT allow objects or liquid into the cabinet openings.**

(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

**DO NOT place any naked flame sources, such as lighted candles, on the TV.**

**DO NOT subject the TV to direct sunlight.**

The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.

If there is a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

**■ Cleaning the screen**

The screen is coated with a special thin film to reduce reflection. If this film is damaged, uneven colors, discoloration, scratches, and other problems that cannot be repaired may occur. Pay attention to the following when handling the screen.

- Do not use glue or adhesive tape on the screen.
- Do not write on the screen.
- Do not allow the screen to come in contact with any hard objects.
- Do not allow condensation to form on the screen.
- Do not use alcohol, thinner, benzene or other solvents on the screen.
- Do not rub the screen hard.

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**CAUTION:**

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
  - Avoid damaging the AC plug and power cord.
  - When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.
-

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# Setting up your TV

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- When you install the TV on the wall, only use a JVC wall mounting unit (optional) which is designed for this TV.
- Make sure that the TV is installed on the wall by a skilled installer.

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## Installation

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### Cautions for installation

- Install the TV in a corner on a wall or on the floor so as to keep cords out of the way.
- The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling. See “Distance recommendations” on page 1.

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## Using the stand

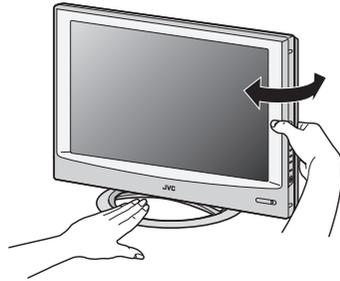
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### This TV comes with a table top stand already attached.

This stand can be used to adjust the direction of the TV screen to the left or right.

### ■ Rotate the TV to the left and right:

While holding the bottom of the stand with one hand, use your other hand to hold the edge of the panel and slowly adjust the direction of the TV screen.



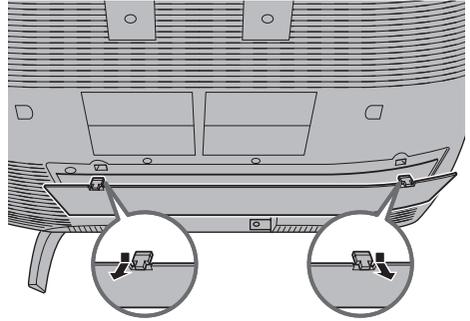
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## Removing the terminal cover

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There are connection terminals behind the cover on the rear of the TV. Remove the cover before connecting an antenna or VCR.

Remove the cover by removing the hooks.  
When replacing the cover, place the side of the cover against the TV and insert the hooks.



- 
- Leave the cover off if they do not fit properly. Do not force to replace the cover. Doing so may cause damage to the connection cables and the cover.
-

## Connecting the aerial and video cassette recorder (VCR)

- The connecting cables are not provided.
- For further details, refer to the manuals provided with the devices to be connected.

### Caution

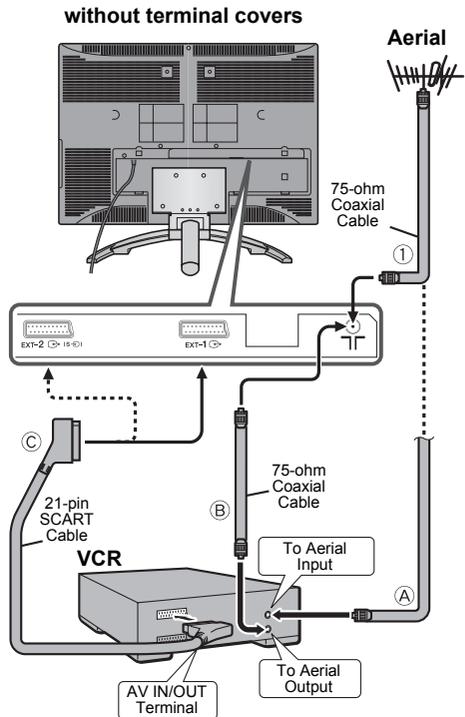
- Turn off all the equipment including the TV before connecting anything.

■ If you are connecting a VCR, follow ① → ② → ③ in the diagram opposite.

■ If you are not connecting a VCR, follow ①.

To use the T-V LINK functions, you must have a T-V LINK compatible VCR connected by a SCART cable ③ to the EXT-2 terminal on the TV. For details about T-V LINK functions, see “T-V LINK functions” on page 10.

- You can watch a video using the VCR without doing ③. For details, see your VCR instruction manual.
- To connect more equipment, please see “Connecting external equipment” on page 41.
- If you connect a decoder to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see “DECODER (EXT-2)” on page 36. Otherwise, you will not be able to watch scrambled channels.



## Connecting the power cord to the AC outlet

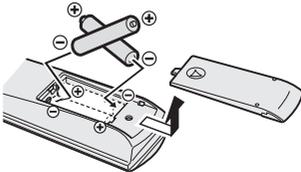
Insert the AC plug on the power cord from the TV into an AC outlet.

### Caution

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
- Remove the AC plug from the outlet to completely disconnect the TV from the power supply.

## Putting the batteries into the remote control

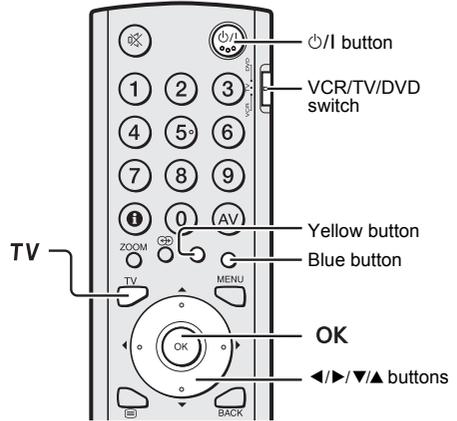
Use two AA/R6 dry cell batteries. Insert the batteries from the  $\ominus$  end, making sure the  $\oplus$  and  $\ominus$  polarities are correct.



- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on how much you use the remote control.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as you need to.
- If the remote control does not work properly, replace the batteries.

## Initial settings

When the TV is first turned on, it goes into the initial settings mode, and you will see the JVC logo. Follow the instructions on the screen display to make the initial settings.



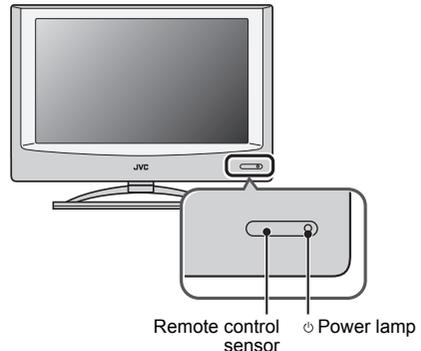
### 1 Make sure to set the VCR/TV/DVD switch on the remote control to the TV position

- You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

### 2 Press the ⏻ button on the remote control

The TV turns on from standby mode and the JVC logo is displayed.

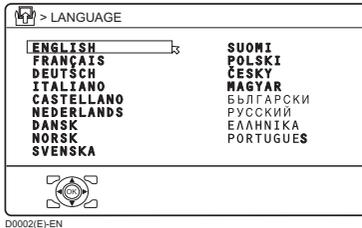
- Check that the AC plug on the power cord from the TV is connected to AC outlet.



- If the JVC logo does not appear this is because your TV has already been turned on for the first time: use the “LANGUAGE” and “AUTO PROGRAM” functions to make the initial settings. For details, see “SET UP menu” on page 32.

### 3 Press the OK button

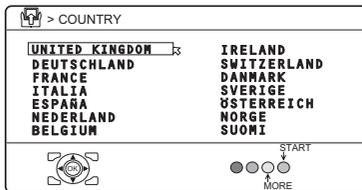
The LANGUAGE menu appears.



D0002(E)-EN

### 4 Press the ▼/▲ buttons to choose ENGLISH. Then press the OK button

The on-screen display will then be in English. The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function. There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:

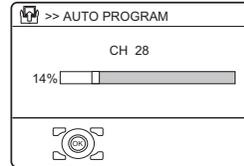


D0003-EN

### 5 Press the ◀/▶ and ▼/▲ buttons to choose the country where you are

### 6 Press the blue button to start the AUTO PROGRAM function

The AUTO PROGRAM menu appears and received TV channels are automatically stored in the programme numbers (PR).

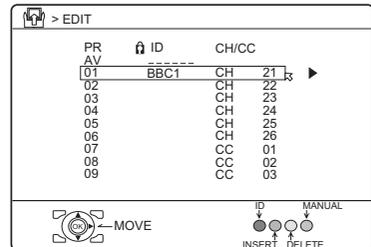


D0004-EN

- To cancel the AUTO PROGRAM function: Press the TV button.



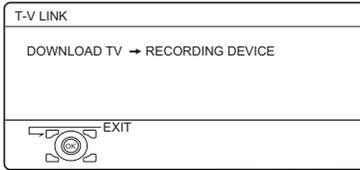
After the TV channels have been registered in the programme numbers (PR), the EDIT menu appears



D0008-EN

- If you want to, you can now edit the programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- If you do not want to edit programme numbers (PR), go to the next step.
- When the COUNTRY setting is UNITED KINGDOM, channels other than CH 21 to CH 69 (E21-E69) cannot be registered by AUTO PROGRAM.

## 7 Press the **OK** button to display the T-V LINK menu



D0005-EN

### If you do not have a T-V LINK compatible VCR connected:

Press the **TV** button to exit the T-V LINK menu.

The T-V LINK menu disappears.

### If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:

Follow the operating procedure “Downloading the data to VCR” on page 10 to transmit the Programme number (PR) data.

## Now, the initial settings are complete, and you can watch the TV

- If your TV can detect the TV channel name from the TV channel broadcast signal, the TV channel name is assigned to the programme number (PR) to which the TV channel has been set. However, which TV channels are set to which programme numbers (PR) will depend on the area in which you live.
- If a TV channel you want to view is not set to a programme number (PR), you can set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- The AUTO PROGRAM function does not set the programme number PR 0 (AV) for your video cassette recorder. You will need to set this using the MANUAL function.

### For users in the UK:

If you have any problems setting up your new TV, please call the **JVC** Helpline on **0870 330 5000**.

### For users in the Republic of Ireland:

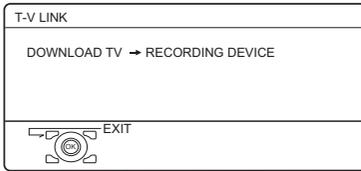
If you have any problems setting up your new TV, please call the **JVC** Helpline on **1890-582500**.

■ **Downloading the data to VCR**

You can transmit to the latest Programme numbers (PR) data to a VCR with the T-V LINK function.

**Caution**

- This only works when a T-V LINK compatible VCR is connected to the EXT-2 terminal.
- This only works when the T-V LINK menu is being displayed.

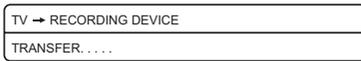


D0005-EN

**1 Turn on the VCR**

**2 Press the OK button**

The data transmission begins.



D0037-EN

The T-V LINK menu disappears once the data transmission ends.

**When the T-V LINK menu is changed over to another menu:**

The TV has finished its menu. This new menu is operated from the VCR. See the VCR instruction manual for what to do next.

**If “FEATURE NOT AVAILABLE” appears at the T-V LINK menu:**

Check the following three items. Then press the ◀ button to retry data transmission.

- Has a T-V LINK compatible VCR been connected to the EXT-2 terminal?
- Has the VCR power been turned on?
- Does the SCART cable that is connected to the EXT-2 terminal to T-V LINK compatible VCR have all its proper connections?

**T-V LINK functions**

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

**To use T-V LINK functions:**

A “T-V LINK compatible VCR” means a JVC video cassette recorder with the T-V LINK logo, or with one of the following logos. However, these VCRs may support some or all of the features described earlier. For details, see your VCR instruction manual.

“Q-LINK” (a trademark of Panasonic Corporation)

“Data Logic” (a trademark of Metz Corporation)

“Easy Link” (a trademark of Philips Corporation)

“Megalogic” (a trademark of Grundig Corporation)

“SMARTLINK” (a trademark of Sony Corporation).

## ■ Pre-set download

The VCR will automatically download the registered data on the TV channels from the TV. This means you do not need to set up the program channels on your VCR manually. The preset download function automatically begins when the initial setting is complete or whenever you carry out the AUTO PROGRAM or EDIT/MANUAL functions. You can also carry out this function using your VCR controls.

### When “FEATURE NOT AVAILABLE” is displayed:

If “FEATURE NOT AVAILABLE” is displayed, the download was not performed correctly. Before trying to download again, check that:

- the VCR power is turned on
- the VCR is T-V LINK compatible
- the VCR is connected to the EXT-2 terminal
- the SCART cable is fully wired.

## ■ Direct Rec

“What You See Is What You Record”

You can easily record to VCR the images that you are watching on the TV.

For details, read the manual for your VCR. Use your VCR controls. “DEVICE IS RECORDING” is displayed.

**In the following situations, the VCR will stop recording if the TV is turned off, if the TV channel or input is changed, or if the menu is displayed on the TV:**

- when recording images from an external device connected to the TV (for example a camcorder)
- when recording a TV channel after it has been unscrambled on a decoder
- when recording a TV channel by using the TV’s output because the VCR’s own tuner cannot properly receive that channel.

You cannot carry out Direct Rec using your TV’s control.

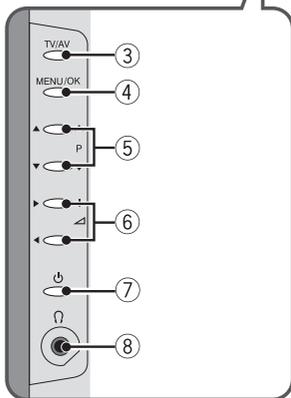
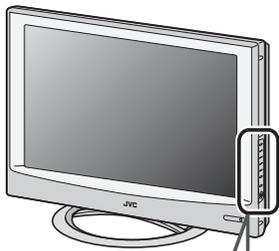
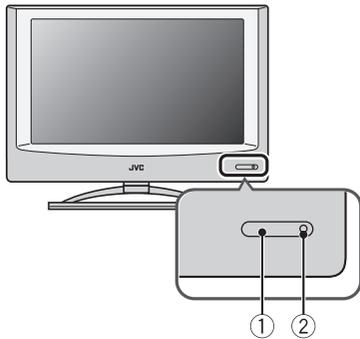
Generally, the VCR cannot record a TV channel that it cannot receive properly on its own tuner, even if you can view that TV channel on the TV. However, some VCRs can record a TV channel by using the TV’s output if that channel can be viewed on the TV. For details, see your VCR instruction manual.

When the VCR is not ready, the following messages are displayed.

ERROR MESSAGE	Cause and countermeasure
NO RECORDING	The VCR is not able to record. Check the VCR.
NO RECORDING POSSIBLE	The TV input is set to EXT-4 or PC. Since the EXT-4 picture or PC picture cannot be output to EXT-2, DIRECT REC is not possible.
NO RECORDING, MEDIA PROBLEM	The recording device is not ready to record. Check the VCR tape.
NO RECORDING, DEVICE BUSY	The recording device cannot record as it is recording or playing. Check the VCR.

Refer to the VCR instruction manual.

# TV buttons and functions



Refer to the pages in parentheses for details.

- ① Remote control sensor
- ② Power lamp (page 7)
- ③ TV/AV button (page 12)
- ④ MENU/OK button (pages 13, 24)
- ⑤ P V/∧ buttons (page 12)
- ⑥ (Volume) -/+ buttons (page 13)
- ⑦ Stand by button (page 12)
- ⑧ Headphone jack (mini jack) (page 41)

## Turn the TV on from standby mode

Press the  button or the P V/∧ buttons to turn the TV on from standby mode.

When the TV is turned on, the power lamp lights blue.

**To turn the TV off:**

Press the  button again.  
The power lamp goes off.

## Caution

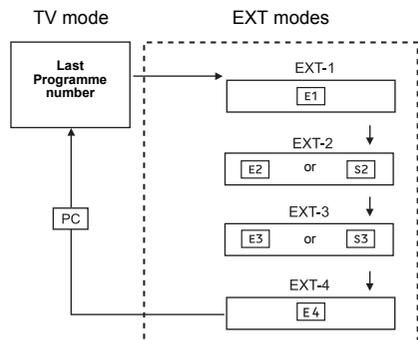
- The  button on the TV does not fully isolate the TV from the AC supply. If you are not going to use the TV for a long period, be sure to disconnect the AC plug from the AC socket.

## Choose a TV channel

Press the P V/∧ buttons to choose a programme number (PR) or an EXT terminal

## Watch images from external devices

Press the TV/AV button to choose an EXT terminal



---

## Adjust the volume

---

**Press the  (Volume) -/+ buttons**

The volume level indicator appears.

---

---

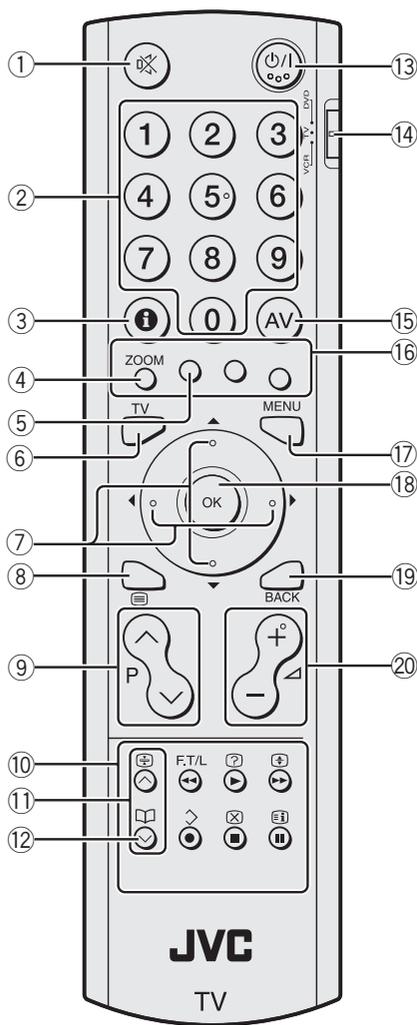
## Using the Menu

---

**Use the MENU/OK button**

Refer to “Using the TV’s menu” (see page 24) for details of using the menu.

# Remote control buttons and functions



- ① Muting button
- ② Number buttons
- ③ Information button
- ④ **ZOOM** button
- ⑤ TV button
- ⑥ **TV** button
- ⑦ ◀/▶/▲/▼ buttons
- ⑧ [List] (Text) button
- ⑨ **P** ∨/∧ buttons
- ⑩ VCR/DVD/Teletext control buttons
- ⑪ ∨/∧ buttons
- ⑫ [Book] (Favourite) button
- ⑬ ⏻/⏼ (Standby) button
- ⑭ VCR/TV/DVD switch
- ⑮ **AV** button
- ⑯ Colour buttons
- ⑰ **MENU** button
- ⑱ **OK** button
- ⑲ **BACK** button
- ⑳ ◀ (Volume) -/+ buttons

## Turn the TV on or off from standby mode

**Press the ⏻/⏼ (standby) button to turn the TV on or off**

When the TV is turned on, the power lamp lights blue.

- The power can be turned on by pressing the **TV** button, **P** ∨/∧ buttons or Number buttons.

To turn the TV on or off, set the VCR/TV/DVD switch on the remote control to the TV position and press the ⏻/⏼ button. If the VCR/TV/DVD switch on the remote control is set to a position other than TV, the TV will not be turned on or off even if the ⏻/⏼ button is pressed.

## Choose a TV channel and watch images from external devices

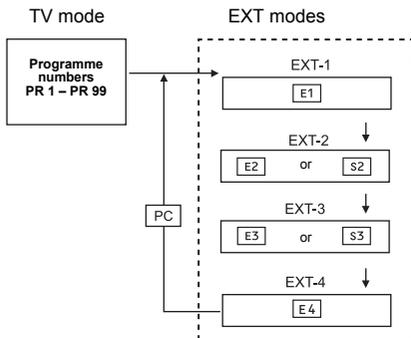
- **Use the number buttons:**  
Enter the programme number (PR) of the channel using the number buttons.

Example:

- PR 6 → press **6**
- PR 12 → press **1** and **2**

- **Use the P  $\nabla/\blacktriangle$  buttons:**  
Press the P  $\nabla/\blacktriangle$  buttons to choose the programme number (PR) you want or an EXT terminal.

- **Use the AV button:**  
Press the AV button to choose an EXT terminal.



- You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details, see “S-IN (S-VIDEO input)” on page 37.
- If you do not have a clear picture or no colour appears, change the colour system manually. See “COLOUR SYSTEM” on page 26.
- If you choose an EXT terminal with no input signal, the EXT terminal number becomes fixed on the screen.

- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with progressive-scanning component signals. If this happens, change the output setting of the connected device to interlace-scanning component signal output. See the instructions that came with the device for more information.
- The PC sound is the same as the EXT-3 sound.

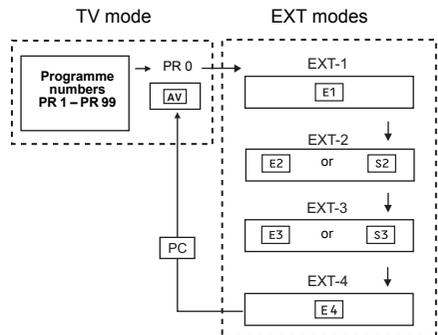
### To return to a TV channel:

Press the **TV** button, the  $\nabla/\blacktriangle$  buttons or the number buttons.

### To use the programme number PR 0 (AV):

When the TV and VCR are connected only by the aerial cable, choosing the programme number PR 0 (AV) allows you to view images from the VCR. Set the VCR RF channel to the programme number PR 0 (AV) manually. For details, see “EDIT/MANUAL” on page 32.

Pressing the **AV** button changes the choice as follows:



- The VCR sends its playback image along the aerial cable as an RF (radio frequency) signal.
- Also see your VCR instruction manual.

## Adjust the volume

Press the buttons to adjust the volume.

The volume level indicator appears and the volume changes as you press the buttons.

### ■ Muting the sound

Press the (muting) button to turn off the sound.

Pressing the (muting) button again restores the previous volume level.

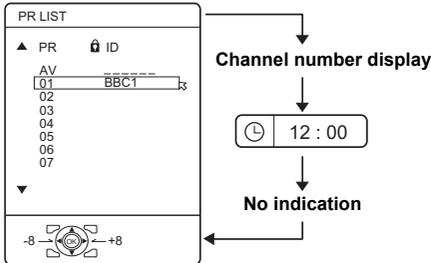
## Information function

You can see the channel number of the programme you are watching, the current time or the PR LIST.

From the PR LIST, you can choose a channel or EXT terminal.

Press the (Information) button to display the information you want to see.

Pressing the (Information) button changes the display as follows:



### Channel number display:

The channel number and channel name (when the channel name is registered) of the programme you are watching or the EXT terminal number is displayed.

### Time display:

The current time of the teletext data is displayed.

If the TV has not received a TV channel that has teletext programmes since it was turned on, the time display is blank. To view the current time, choose a TV channel that has teletext programmes.

- An incorrect current time is sometimes displayed when watching videos.

### PR LIST:

The programme number (PR) and EXT terminal list is displayed.

Pressing the **OK** button after choosing the programme number (PR) or EXT terminal with the buttons will display the chosen programme or EXT terminal.

- For programme numbers (PR) for which the CHILD LOCK function is set, the (CHILD LOCK) mark is displayed. For details see “CHILD LOCK” on page 29.
- For programme numbers (PR) which is registered as a favourite channel, the (favourite) mark is displayed. For details see “Favourite channel function” on page 19.

## ZOOM function

You can change the screen size according to the picture aspect ratio. Choose the optimum one from the following ZOOM modes.

- The ZOOM mode is fixed at FULL when you are using the TV as a PC screen.

### AUTO:

When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal.

If a WSS signal is not included, the picture is displayed according to the ZOOM mode set with the 4:3 AUTO ASPECT function.

- For details of the 4:3 AUTO ASPECT function, see “4:3 AUTO ASPECT” on page 27.
- When the AUTO (WSS) mode does not function correctly due to poor WSS signal quality or when you want to change the ZOOM mode, press the **ZOOM** button and change to another ZOOM mode.

### REGULAR:

Use to view a normal picture (4:3 aspect ratio) as this is its original shape.



### PANORAMIC:

This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural.



- The top and bottom of the picture are slightly cut off.

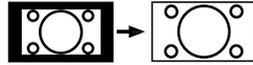
### 14:9 ZOOM:

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



### 16:9 ZOOM:

This zooms up the wide picture (16:9 aspect ratio) to the full screen.



### 16:9 ZOOM SUBTITLE:

This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



### FULL:

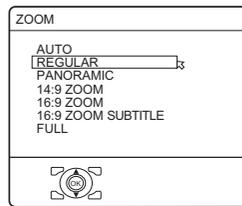
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the FULL mode to restore the picture to its original shape.

## ■ Choose the ZOOM mode

### 1 Press the **ZOOM** button to display the ZOOM menu



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### 2 Press the **▼/▲** buttons to choose a ZOOM mode. Then press the **OK** button

The picture expands and the chosen ZOOM mode is displayed in about 5 seconds.

- The ZOOM mode may be automatically changed by the control signal from an external device. When you want to return to the previous ZOOM mode, choose the ZOOM mode again.

### ■ Adjusting the visible area of the picture

If subtitles or the top (or bottom) of the picture are cut off, you can adjust the visible area of the picture manually.

#### 1 Press the **ZOOM** button

The ZOOM menu appears.

#### 2 Press the **OK** button to display the **ZOOM mode indicator**

The indicator appears.



#### 3 While it is displayed, press the **▼/▲** buttons to change the position of the picture

- You cannot adjust the visible area in REGULAR or FULL mode.

The visible area adjustment is saved even after the TV channel is changed. However, it is cancelled if the following operations are performed.

- The power is turned off/on
- The ZOOM mode is changed
-  (Text) button is pressed
- The TV is switched between TV mode and EXT mode

---

## 3D SOUND function

---

You can enjoy sounds with a wider ambience.

- This function does not work for the sound from headphones.

### Press the button to select one of 3D SOUND modes

#### **ON:**

When you listen to stereo sound, please select ON mode.

You can enjoy sound similar to the experience at the theatre.

#### **MONO:**

Select the MONO mode, when you listen to the mono sound.

You can enjoy the sound for a wider audience similar to stereo sound.

#### **OFF:**

The 3D SOUND function switches off.

- You can choose the 3D SOUND mode with the “SOUND menu” (see page 28).

---

## Return to TV channel instantly

---

You can return to a TV channel instantly.

### Press the **TV** button

The TV returns to the TV mode and a TV channel appears.

---

## Favourite channel function

---

You can register your favourite TV channels (PR 1 – PR 99) in the number buttons 1 to 4. After registering, the channel can be called by pressing the  (favourite) button and a number button 1 to 4.

### ■ Favourite channel registration

#### 1 In the normal screen, choose a TV channel (PR 1 – PR 99) that you want to register

For details, refer to “Choose a TV channel and watch images from external devices” on page 15.

#### 2 Press and hold the (favourite) button for three seconds or more

Then “SET 1-4?” appears on the screen.

#### 3 Press one of the number buttons 1 to 4

The current channel is registered in the pressed number button.

After “PROGRAMMED!” appears on the screen, the favourite channel icon appears at the top-right of the screen.

- If the channel you are trying to register is already registered in one of the other number buttons 1 to 4, “NOT AVAILABLE” appears on the screen.
- Channels locked with the CHILD LOCK function cannot be registered.
- If AUTO PROGRAM is performed, the registered favourite channels are reset.

- When you want to delete a favourite channel, delete the set channel and set contents with FAVOURITE SETTING (see page 31) in the FEATURES menu.
- 

### ■ Calling the favourite channel

#### 1 In the normal screen, press the (favourite) button

Then “FAVORITE1-4?” appears.

#### 2 Press one of the number buttons 1 to 4

The called favourite channel appears on the screen.

- If a number button in which no channel is registered is pressed, “NO MEMORY” appears on the screen.

### ■ Setting the picture effect

When a favourite channel has been chosen with the  (favourite) button and number buttons 1 to 4, picture effect settings can be memorised for each favourite channel by setting the picture effects in the PICTURE menu (see page 25).

The following items in the PICTURE menu (see page 25) are memorised.

PICTURE MODE  
BRIGHT-1  
CONTRAST  
BRIGHT-2  
SHARP  
COLOUR  
HUE  
COLOUR TEMP.  
DIGITAL VNR  
COLOUR SYSTEM

The last setting made for each item is memorised.

---

## Operating a JVC brand VCR or DVD player

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These buttons will operate a JVC brand VCR or DVD player. Pressing a button that looks the same as the device's original remote control button has the same effect as the original remote control.

---

### 1 Set the VCR/TV/DVD Switch to the VCR or DVD position

#### VCR:

When you are operating the VCR, set the switch to the VCR position.

- You can turn the VCR on or off with the  (standby) button.

#### DVD:

When you are operating the DVD player, set the switch to the DVD position.

- You can turn the DVD player on or off with the  (standby) button.
- You can also press the **MENU** or **TOP MENU** button and display the DVD disc menu screen, and then operate by pressing the / / /  buttons.

---

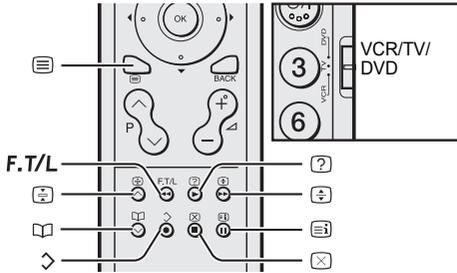
### 2 Press the VCR/DVD Control Button to control your VCR or DVD player

- If your device is not made by JVC, these buttons will not work.
- Even if your device is made by JVC, some of these buttons may not work, depending on the device you are using.
- You can use the /  buttons to choose a TV channel the VCR will receive, or choose the chapter the DVD player plays back.
- Some models of DVD player use the /  buttons for both operating the fast forward/backward functions and for choosing the chapter. In this case, the /  buttons do not work.

You cannot turn the TV on or off when the VCR/TV/DVD switch is set to the VCR or DVD position.

When you turn the TV on or off, set the VCR/TV/DVD switch to the TV position.

# Teletext function



- 4 Choose a teletext page by pressing the P V/^ buttons, number buttons or colour buttons**

## To return to the TV mode:

Press the **TV** button or (Text) button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- The ZOOM function will not work in the TV and text mode or Text mode.
- You cannot operate menus when viewing a teletext programme.
- Language display depends on the country which was set on the COUNTRY menu. If characters on a Teletext programme do not appear properly, change the COUNTRY setting to other country's. To change the COUNTRY setting, perform steps 1 and 2 of the "AUTO PROGRAM" procedure on page 32 and then press the **OK** button.

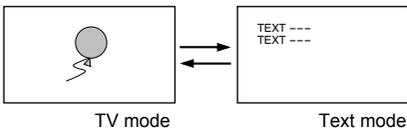
## Basic operation

- 1 Choose a TV channel with a teletext broadcast**
- 2 Set the VCR/TV/DVD switch to the TV position**



- 3 Press (Text) button to display the teletext**

Pressing (Text) button changes the mode as follows:



## Using the List Mode

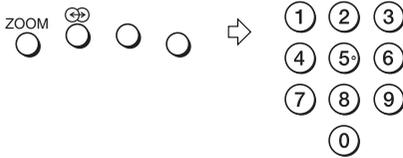
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

- **To store the page numbers:**

- 1 Press F.T/L button to go into the List mode**

The page numbers you have stored are displayed at the bottom of the screen.

**2 Press a colour button to choose a position. Then press the number buttons to enter the page number**



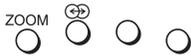
**3 Press and hold down the ⇨ (Store) button**

The four page numbers blink white to show that they are stored in memory.

■ **To call up a stored page:**

**1 Press the F.T/L button to enter the List mode**

**2 Press a colour button having a stored page**



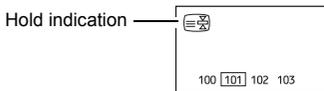
**To exit the List mode:**

Press the F.T/L button again.

**Hold**

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

**Press the ⇨ (Hold) button**



**To cancel the Hold function:**

Press ⇨ (Hold) button again.

**Sub-page**

Some teletext pages include sub-pages that are automatically displayed.

You can hold any sub-page, or view it at any time.

**1 Press the 📖 (Favourite) button to operate the Sub-page function**

**2 Press the Number buttons to enter a sub-page number**

Example:

- 3rd sub-page → press 0, 0, 0 and 3.

**To cancel the Sub-page function:**

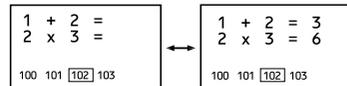
Press the 📖 (Favourite) button again.

**Reveal**

Some teletext pages include hidden text (such as answers to a quiz).

You can display the hidden text.

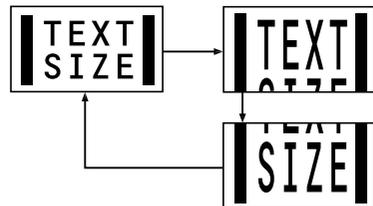
**Each time you press the 🗉 (Reveal) button, text is hidden or revealed**



**Size**

You can double the height of the teletext display.

**Press the ⇄ (Size) button**



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## Index

---

You can return to the index page instantly.

---

### **Press the (Index) button**

Returns to page 100 or a previously specified page.

---

## Cancel

---

You can search for a teletext page while watching TV.

---

### **1 Press the number button to enter a page number, or press a colour button**

The TV searches for a teletext page.

---

### **2 Press (Cancel) button**

The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

---

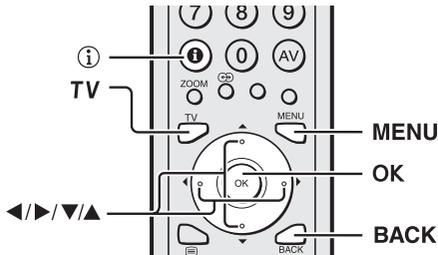
### **3 Press (Cancel) button to return to a teletext page when the page number is on the screen**

- The TV mode cannot be resumed by pressing the  (Cancel) button. To return to the TV mode press **TV**.

# Using the TV's menu

This TV has a number of functions you can operate using menus. To use all your TV's functions, you need to understand the basic menu operating techniques fully.

## Buttons used to operate the menus

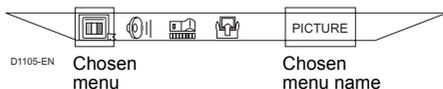


## Basic operation

- 1 Press the **MENU** button to display the menu bar



- 2 Press the **◀/▶** buttons to choose the menu you want to use and then press the **OK** button



- 3 Press the **▼/▲** buttons to choose the item to be set, press the **◀/▶** buttons to set the item, and then press the **OK** button

If there are sub-menus, use the **◀/▶/▼/▲** buttons to operate them.

- Press the **BACK** button to return to the previous menu.
- Press the **TV** or **MENU** button to exit from the menu.
- Some menu items may not be operated or set depending on the TV status or other menu item settings. Menu items that cannot be operated or set are displayed in grey in the menu and cannot be chosen.

## Types of menu



### PICTURE menu

Choose to set the screen settings.



### SOUND menu

Choose to set the sound settings.



### FEATURES menu

Choose to set the sleep timer and child lock settings.



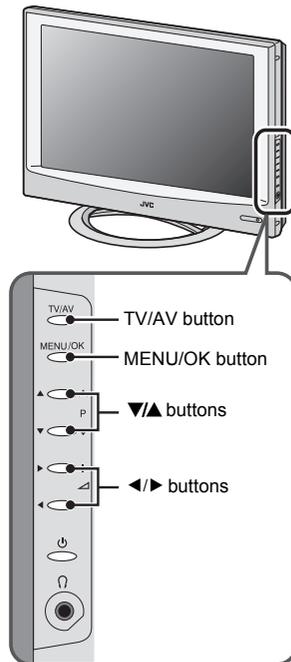
### SET UP menu

Choose to edit the channels or set the display language settings.

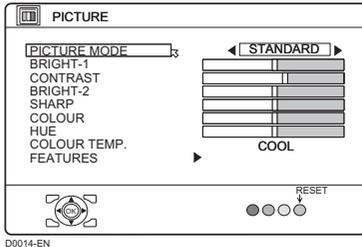
- The menu will disappear after about one minute if no operation is performed.

## Operation with the buttons on the TV

You can also operate the menus using the buttons on the front panel of the TV.



# PICTURE menu



- While the PICTURE menu is displayed, pressing the blue button will set the BRIGHT-1, CONTRAST, BRIGHT-2, SHARP, COLOUR, HUE settings to their default settings.
- When watching the picture from EXT-1 to EXT-4 or the PC, picture effect settings can be memorised for each external input by setting the picture effects in the PICTURE menu.

The following items in the PICTURE menu are memorised.

PICTURE MODE

BRIGHT-1

CONTRAST

BRIGHT-2

SHARP

COLOUR

HUE

COLOUR TEMP.

DIGITAL VNR

COLOUR SYSTEM

The last setting made for each item is memorised.

## PICTURE MODE

You can choose one of three PICTURE MODEs to adjust the picture settings automatically.

### **BRIGHT:**

Heightens contrast and sharpness.

### **STANDARD:**

Standardizes picture adjustment.

### **SOFT:**

Softens contrast and sharpness.

## BRIGHT-1

You can adjust the back light.

◀ : darker

▶ : brighter

## CONTRAST

You can adjust the picture contrast.

◀ : lower

▶ : higher

## BRIGHT-2

You can adjust the picture brightness.

◀ : darker

▶ : brighter

## SHARP

You can adjust the picture sharpness.

◀ : softer

▶ : sharper

## COLOUR

You can adjust the picture colour.

◀ : lighter

▶ : deeper

## HUE

You can adjust the picture tint.

◀ : reddish

▶ : greenish

- You can change the HUE setting (picture hue) when the colour system is NTSC 3.58, or NTSC 4.43.

## COLOUR TEMP.

You can select one of three COLOUR TEMP. modes (three tones of white) to adjust the white balance of the picture. Since white is the colour which is used as a reference for all the other colours, changing the COLOUR TEMP. mode affects the appearance of all the other colours on the screen.

**COOL:**

A bluish white. Using this mode when watching bright pictures allows you to enjoy a more vivid and bright picture.

**NORMAL:**

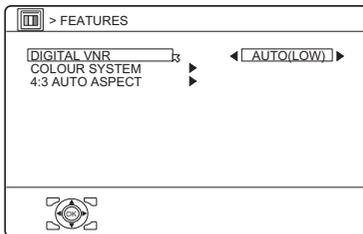
The normal white colour.

**WARM:**

A reddish white. Using this mode when watching films allows you to enjoy colours that are characteristic of films.

**FEATURES**

Choose **FEATURES** and press the **OK** or **▶** button to display the sub-menu.



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■ **DIGITAL VNR**

The **DIGITAL VNR** function cuts down the amount of 'noise' ('snow' or interference) in the original picture.

**ON:**

This function is turned on.

**OFF:**

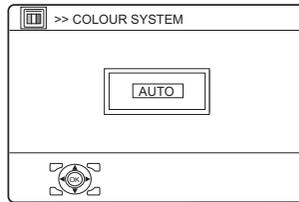
This function is turned off.

■ **COLOUR SYSTEM**

The colour system is chosen automatically. However, if the picture is not clear or no colour appears, choose the colour system manually.

**1 Choose COLOUR SYSTEM. Then press the OK or ▶ button**

The sub-menu of the **COLOUR SYSTEM** function appears.



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**2 Press the ▼/▲ buttons to choose the appropriate colour system. Then press the OK button**

**PAL:**

PAL system

**SECAM:**

SECAM system

**NTSC 3.58:**

NTSC 3.58 MHz system

**NTSC 4.43:**

NTSC 4.43 MHz system

**AUTO:**

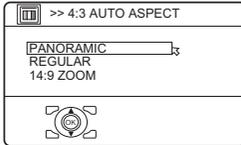
This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or an EXT terminal.

- The **AUTO** function may not function properly if you have poor signal quality. If the picture is abnormal in the **AUTO** function, choose another colour system manually.
- When in the Programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43.
- **COLOUR SYSTEM** cannot be chosen when you are watching the PC picture.

## ■ 4:3 AUTO ASPECT

You can choose one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

### 1 Choose 4:3 AUTO ASPECT then press the **OK** button

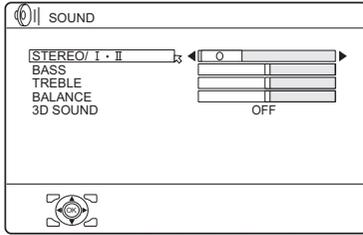


D0017-EN

### 2 Press the **▼/▲** buttons to choose a ZOOM mode

# SOUND menu

---



- When the headphones are connected, only “STEREO / I • II” can be used.

---

## STEREO / I • II

---

When you are viewing a bilingual broadcast programme, you can choose the sound from Bilingual I (Sub I) or Bilingual II (Sub II). If you have poor reception on a stereo broadcast, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

∞: Stereo sound

○: mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the EXT modes.

---

## BASS

---

You can adjust the low tone of the sound.

- ◀ : weaker
- ▶ : strong

---

## TREBLE

---

You can adjust the high tone of the sound.

- ◀ : weaker
- ▶ : strong

---

## BALANCE

---

You can adjust the volume balance between the left and right speaker.

- ◀ : turn the left speaker's volume level up.
- ▶ : turn the right speaker's volume level up.

---

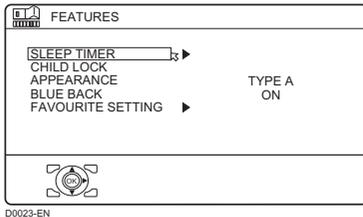
## 3D SOUND

---

You can enjoy Surround sound with a “live” effect by using the 3D SOUND function.

- You can choose a 3D SOUND mode from ON, MONO and OFF modes. For details, see “3D SOUND function” on page 18.
- You can also operate the 3D SOUND function with the  button. For details, see “3D SOUND function” on page 18.

# FEATURES menu

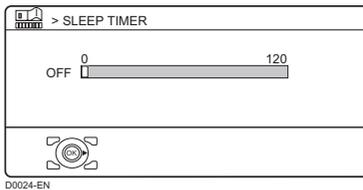


## SLEEP TIMER

You can set the TV to automatically turn off after a set period of time.

### 1 Choose SLEEP TIMER. Then press the OK or ► button

A Sub-menu of the SLEEP TIMER function appears.



### 2 Press the ◀/▶ buttons to set the period of time. Then press the OK button

You can set the period of time for up to 120 minutes (2 hours) in 10 minute steps.

- One minute before the SLEEP TIMER function turns off the TV, “GOODNIGHT!” appears.
- The SLEEP TIMER function cannot be used to turn off the TV’s main power.
- When the SLEEP TIMER function is on, you can display the sub-menu of the SLEEP TIMER function again to confirm or change the remaining period of time of the SLEEP TIMER function. Press the OK button to leave the menu after confirming or changing the remaining time.

### To cancel the SLEEP TIMER function:

Press the ◀ button to set the period of time to “OFF”.

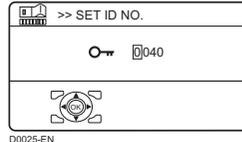
## CHILD LOCK

When there is a TV channel you do not want your children to watch, you can use the CHILD LOCK function to lock out the TV channel. Even when a child chooses a programme number (PR) for a locked TV channel the screen will change to blue and display  (CHILD LOCK) so the TV channel cannot be viewed. Unless you enter a pre-set ID number by a special operation, the lock cannot be released and the child cannot view the TV channel.

### ■ To set the CHILD LOCK function

#### 1 Choose CHILD LOCK, then press the 0 button

“SET ID NO.” (ID number setting screen) appears.



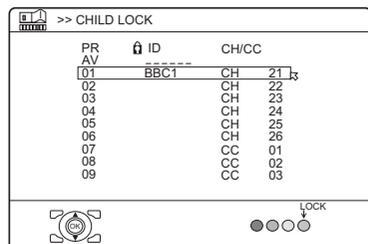
#### 2 Set the ID number to your liking

1 Press the ▼/▲ buttons to choose a number.

2 Press the ◀/▶ buttons to move the cursor.

#### 3 Press the OK button

The Sub-menu of CHILD LOCK appears.



**4 Press the ▼/▲ buttons to choose a TV channel**

Every time you press the ▼/▲ buttons, the Programme number (PR) changes, and the picture of the TV channel registered in the Programme number (PR) is displayed on the screen.

**5 Press the blue button and set the CHILD LOCK function. Then press the OK button**

Ⓜ (CHILD LOCK) appears and the TV channel is locked.

**To reset the CHILD LOCK function:**

Press the blue button again.

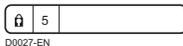
Ⓜ (CHILD LOCK) disappears.

To disable easy resetting of the CHILD LOCK function, the menu disappears if you choose the CHILD LOCK function and press the **OK** button.

**■ To view a locked TV channel**

**1 Choose a programme number (PR) of a locked TV channel with the number buttons or PR LIST**

The screen changes to blue and the Ⓜ (CHILD LOCK) appears. You cannot view the TV channel.



**2 Press the ⓘ (Information) button to display “ID NO.” (ID No. input screen)**



**3 Press the number buttons to enter the ID number**

The lock is temporarily released so you can view the TV channel.

**If you have forgotten the ID number:**

Perform step 1 of “To set the CHILD LOCK function”. After confirming the ID number, press the **TV** button to exit the menu.

- Even if you reset the lock temporarily, it does not mean that the CHILD LOCK function set for the TV channel is cancelled. The next time anyone tries to view the TV channel, it will be locked again.
- When you want to cancel the CHILD LOCK function, you must perform the operation “To set the CHILD LOCK function” again.
- To stop it being easy to choose the programme number (PR) of a locked TV channel, the programme number (PR) has been set so that it cannot be chosen with the ▼/▲ buttons or the buttons of the TV.
- To stop it being easy to reset the lock, “ID NO.” (ID No. input screen) is set so that it cannot appear unless you press the ⓘ (Information) button.

**APPEARANCE**

Press the ◀/▶ button and choose the format in which the channel number is displayed from two types: TYPE A and TYPE B.

**BLUE BACK**

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.

**ON:**

This function is turned on.

**OFF:**

This function is turned off.

---

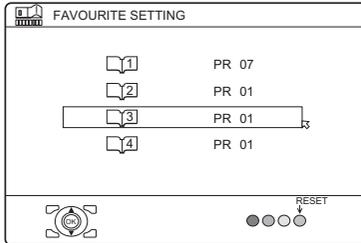
## FAVOURITE SETTING

---

Chose when deleting the favourite channels registered in the buttons 1 to 4.

### 1 Choose FAVOURITE SETTING, then press the OK or ► button

The FAVOURITE SETTING menu appears.



D0112-EN

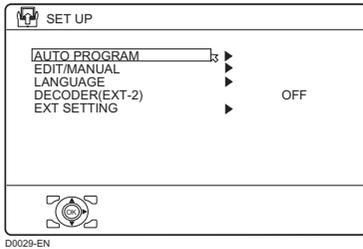
### 2 Press the ▼/▲ buttons and chose the favourite channel that you want to delete

### 3 Press the blue button

The chosen favourite channel and set contents are deleted.

- For details of the favourite channels, see “Favourite channel function” on page 19.
-

# SET UP menu

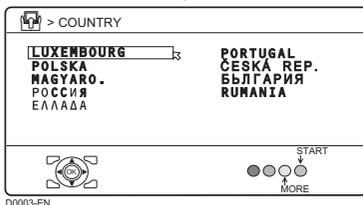


## AUTO PROGRAM

You can again perform the AUTO PROGRAM function TV channel automatic registration which was performed in the “Initial settings” (page 7).

### 1 Choose AUTO PROGRAM, then press the OK or ► button

The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function. There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:



### 2 Press the ◀/▶ and ▼/▲ buttons to choose the country where you are

### 3 Perform steps 5 and 6 of the “Initial settings” (page 8)

## EDIT/MANUAL

The EDIT/MANUAL functions are divided into two types:

- editing the current programme numbers (PR) (EDIT functions); and
- manually storing a TV channel you want to view on a particular programme number (PR) (MANUAL function).

Here are the details about these functions:

### MOVE:

This function changes the programme number (PR) of a TV channel.

### ID:

This function registers a channel name (ID) to a TV channel.

### INSERT:

This function adds a new TV channel in the current programme numbers (PR) list by using the CH/CC number.

- You cannot use the INSERT function if you do not know the channel number of a TV channel. Use the MANUAL function to register a TV channel in the programme number (PR).

### DELETE:

This function deletes a TV channel you do not want to list.

### MANUAL:

This function manually stores a new TV channel in a programme number (PR).

## Caution

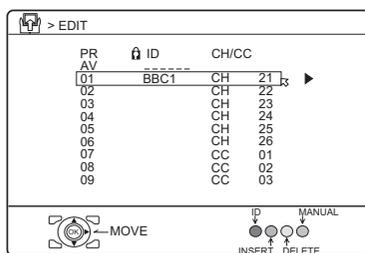
- Using the MOVE, DELETE or INSERT functions rewrites the current programme numbers (PR) list. Therefore, the programme numbers (PR) of some of the TV channels will change.
- Using the MANUAL function for a TV channel for which the CHILD LOCK function has been set cancels the CHILD LOCK function for that channel.

- Using the MANUAL function for a TV channel for which the DECODER (EXT-2) function has been set to ON returns the setting of the DECODER (EXT-2) function for that channel to OFF.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes that TV channel.

## ■ Basic operation

- 1 Choose EDIT/MANUAL, then press the OK or ► button

The EDIT menu appears.

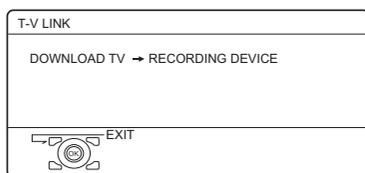


D0038-EN

- 2 Follow the description for the function you want to use

- 3 Press the OK button to complete the settings

The T-V LINK menu appears.



D0005-EN

### If you do not have a T-V LINK compatible VCR connected:

Press the TV button to exit the T-V LINK menu.

The T-V LINK menu disappears.

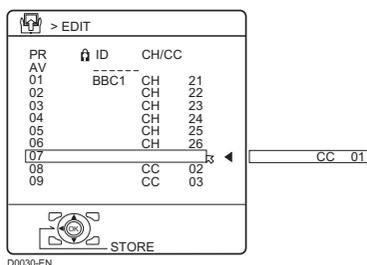
### If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:

Follow “Downloading the data to VCR” on page 10 to transmit the programme number (PR) data.

- For programme number PR 0, “AV” appears in the programme numbers (PR) list.
- An EXT terminal number does not appear in the programme numbers (PR) list.

## ■ MOVE

- 1 Press the ▼/▲ buttons to choose a TV channel
- 2 Press the ► button to start the MOVE function



D0030-EN

- 3 Press the ▼/▲ buttons to choose a new programme number (PR)

To cancel the MOVE function:  
Press the BACK button.

- 4 Press the ◀ button to change the programme number (PR) of a TV channel to a new programme number (PR)

## ■ DELETE

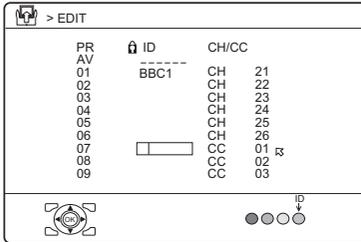
- 1 Press the ▼/▲ buttons to choose a TV channel
- 2 Press the yellow button to delete the TV channel

The TV channel is deleted from the programme numbers (PR) list.

■ ID

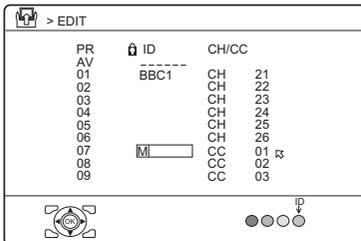
1 Press the ▼/▲ buttons to choose a TV channel

2 Press the red button to start the ID function



D0031-EN

3 Press the ◀/▶ buttons to move the cursor, and press the ▼/▲ buttons to choose each character of the channel name (ID). Then press the OK button to register the channel name (ID) to the TV channel.



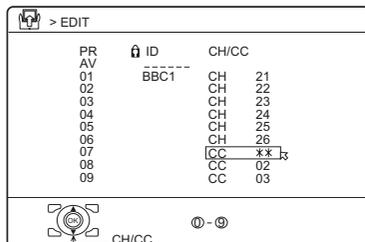
D0032-EN

**Before performing INSERT or MANUAL operation**

- If you register the TV channel (SECAM-L system) from a French station, be sure to set the COUNTRY setting to FRANCE. If the COUNTRY setting is not set to FRANCE, perform steps 1 and 2 of the “AUTO PROGRAM” (page 32) procedure and set the COUNTRY setting to FRANCE before pressing the **OK** button.
- A CH/CC number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH/CC number from a table “CH/CC numbers” on page 44 based on the Channel number of the TV channel.
- When the COUNTRY setting is not FRANCE, use a two-digit CH/CC number. When the COUNTRY setting is FRANCE, use a three-digit CH/CC number.

## ■ INSERT

- 1 Press the **▼/▲** buttons to choose a programme number (PR) for which you will register a new TV channel
- 2 Press the green button and start the INSERT function



D0034-EN

**To cancel the INSERT function:**  
Press the **BACK** button.

- 3 Press the **▼/▲** buttons to choose “CH” or “CC”, then enter the remaining CH or CC number
- When the COUNTRY setting is FRANCE:**  
Choose “CH1”, “CH2”, “CC1” or “CC2”.

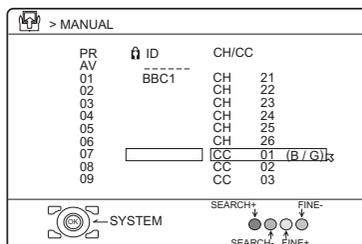
The TV shifts to registration mode. When the registration is completed, the picture of the TV channel appears on the screen.

- The CH/CC number is a number given to each broadcast frequency that carries a TV channel. If the TV cannot detect the TV channel corresponding to the broadcast frequency indicated by the CH/CC number, a “no-signal” picture appears.

## ■ MANUAL

- 1 Press the **▼/▲** buttons to choose a programme number (PR) for a new TV channel
- 2 Press the blue button to activate the MANUAL function

At the right side following the CH/CC number, the SYSTEM (broadcasting system) of the TV channel appears.



D0035-EN

**To cancel the MANUAL function:**  
Press the **BACK** button.

- 3 Press the **▶** button to choose the **SYSTEM (broadcasting system)** for a TV channel you want to register
- TV channel (SECAM-L system) from a French station:**

Set the SYSTEM to “L”. If it is set to one other than “L”, you cannot receive the TV channel of the SECAM-L system.

### Other TV channels:

If you do not know the correct broadcasting system, set the SYSTEM to “B/G”. If “B/G” is not correct, you will not hear the sound normally when the TV detects a TV channel. In this case, retry to set the SYSTEM correctly so that no problem arises.

**4 Press the green or red button to search for a TV channel**

Scanning stops when the TV finds a TV channel. Then the TV channel is displayed.

**5 Press the green or red button repeatedly until the TV channel you want appears**

**If the TV channel reception is poor:**  
Press the blue or yellow button to fine-tune the TV channel.

**6 Press the OK button and register the TV channel to a Programme number (PR)**

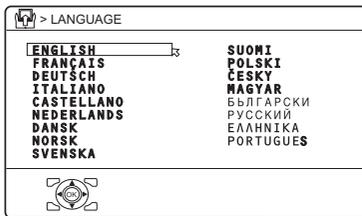
The normal EDIT menu is resumed.

## LANGUAGE

The LANGUAGE setting which was performed in the “Initial settings” (page 7) can be changed.

**1 Choose LANGUAGE, then press the OK or ► button**

A sub-menu of the LANGUAGE function appears.



**2 Press the ◀/▶ and ▼/▲ buttons to choose a language. Then press the OK button**

## DECODER (EXT-2)

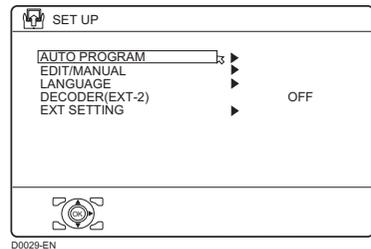
If you have a decoder connected to a T-V LINK compatible VCR, which in turn is connected to the EXT-2 terminal, use the DECODER (EXT-2) function to unscramble the scrambled TV channels.

**1 Turn on the decoder power**

**2 Display the scrambled TV channel on the TV**

Even if the decoder is working, a scrambled picture appears.

**3 Display the SET UP menu and choose DECODER (EXT-2)**



**4 Press the ◀/▶ buttons to choose ON**

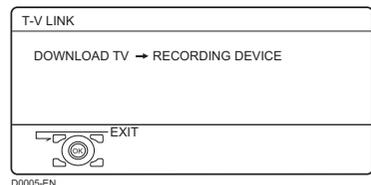
An unscrambled picture appears.

**To cancel the DECODER (EXT-2) function:**

Press the ◀/▶ buttons to choose OFF.

**5 Press the OK button to complete the setting**

The T-V LINK menu appears.



You can send the programme numbers data to a VCR with the T-V LINK function.

## 6 Turn on the VCR, and then press the OK button to transmit the data to VCR

The T-V LINK menu disappears once the data transmission ends.

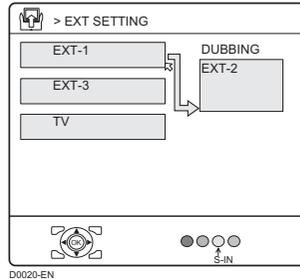
If the DECODER (EXT-2) function has been set to “ON” but the TV channel cannot be unscrambled, check the following:

- Has the decoder been connected to the VCR properly according to the VCR and decoder instruction manuals?
- Has the decoder power been turned on?
- Can the TV channel be unscrambled with a decoder?
- Do you need to change the VCR settings in order to connect the decoder? Confirm that the VCR is set properly by rechecking the VCR instruction manual.

## EXT SETTING

### 1 Choose EXT SETTING, then press the OK or ► button

The EXT SETTING menu appears.



### 2 Follow the instructions for the function you want to use and operate the function

#### S-IN:

You can enjoy the high-quality picture of the S-VIDEO signal (Y/C signal).

#### ID LIST:

You can have a name for each of the devices connected for each EXT terminal.

#### DUBBING:

You can choose a signal source to be output from an EXT-2 terminal.

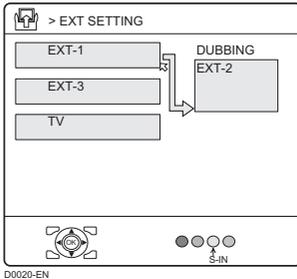
### ■ S-IN (S-VIDEO input)

You can connect a device (such as an S-VHS VCR) to enjoy the high-quality picture of the S-VIDEO signal (Y/C signal).

#### Preparation:

- First read the device’s instruction manual and “Additional preparation” on page 41 to connect the device to the TV properly. Second, follow the device’s instruction manual to set the device so that it sends an S-VIDEO signal (Y/C signal) to the TV.
- Do not set S-IN (S-VIDEO input) to an EXT terminal connected to a device which cannot output an S-VIDEO (Y/C signal).

**1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal**



**2 Press the yellow button and set the S-IN (S-VIDEO input). Then press the OK button**

An S-IN (S-VIDEO input) mark is displayed. You can view an S-VIDEO signal (Y/C signal) instead of the regular video signal (composite signal).

**To cancel the S-IN (S-VIDEO input) setting:**

Press the yellow button and turn off S-IN (S-VIDEO input) mark. The regular video signal (composite signal) pictures are resumed.

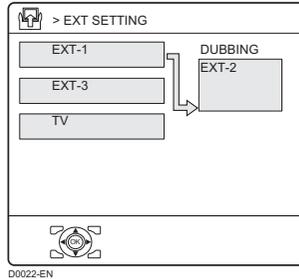
- Setting S-IN (S-VIDEO input) changes the head character from “E” to “S”. When an EXT terminal receives a normal video signal, “E1”, “E2” or “E3” appears on the display. This changes to “S1”, “S2” or “S3” when it receives an S-VIDEO signal.
- Even a device which can output an S-VIDEO signal (Y/C signal) may output a regular video signal (composite signal) depending on the device setting. If a picture cannot appear because the S-IN (S-VIDEO input) setting has been made, read the device instruction manual carefully again to check for the device settings.

**■ DUBBING**

You can choose a signal source to be output from the EXT-2 terminal.

You can do this with the output signals of the devices connected to other EXT terminals, or with the picture and sound from a TV channel you are currently viewing.

**1 Press the ◀/▶ buttons to choose the arrow from the menu**



**2 Press the ▼/▲ buttons to choose an EXT terminal or TV. Then press the OK button**

The arrow in the menu represents a signal flow. The left side of the arrow shows a signal source output from the EXT-2 terminal.

**EXT-1/EXT-3:**

The output signal of the device connected to an EXT terminal passes through the TV and is output from the EXT-2 terminal.

**TV:**

The picture and sound of the TV channel you are currently viewing are output from the EXT-2 terminal.

- 
- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
  - When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal onto a VCR connected to the EXT-2 terminal.
  - The RGB signals from TV games cannot be output. Teletext programmes cannot be output.
-

# Displaying a computer screen

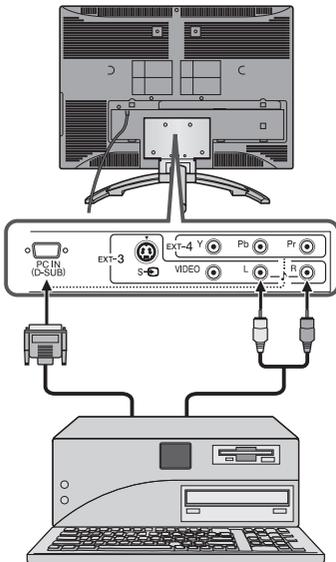
This TV can be used as a computer screen.

## Connecting to the computer

Use a D-SUB cable to connect the TV's PC IN terminal to the computer's analogue RGB output terminal.

If you want to listen to the sound from the computer, use an audio cable to connect the EXT-3 L/R terminal to the computer's sound output terminal.

When the sound from the computer is mono, connect to the EXT-3 L terminal.



- Refer to the computer manual for a detailed explanation of the connections at the computer side.
- Ensure that the connectors are facing the correct way when connecting.
- After connecting the D-SUB cable, tighten the two screws to fix the connector in place.

## Watching images from a computer

**After starting the computer, press the AV or P V/∧ buttons to choose "PC"**

"PC" is after EXT-4.

You can listen to the sound when the sound from the computer is connected to the EXT-3 L/R terminal.

- When the sound from the computer is connected to EXT-3, by choosing external input EXT-3 the sound from the computer can be listened to, but the images from the computer cannot be seen.

## Table of signals for each type of computer

Resolution	Vertical frequency (Hz)	Horizontal frequency (kHz)
640 × 480 (VGA)	60.0	31.5
1024 × 768 (XGA)	60.0	42.0

- \* Only the above formats are supported.
- \* Even with the above formats and at 60 Hz, some problems may be experienced depending on the quality of the synchronous signal. (Depending on the quality, some pictures may not be displayed properly.)
- \* Apple Macintosh\* computers are not supported.

### When a picture is not displayed

Check the computer's refresh rate and set it to 60 Hz. Refer to the computer's instruction manual.

Computers which cannot have their refresh rate set to 60 Hz cannot be used with this unit.

- \* Apple Macintosh is a registered trademark of Apple Computer, Inc.

# Additional preparation

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## Connecting external equipment

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Connect the equipment to the TV, making the correct rear panel and front panel connections.

### Before connecting anything:

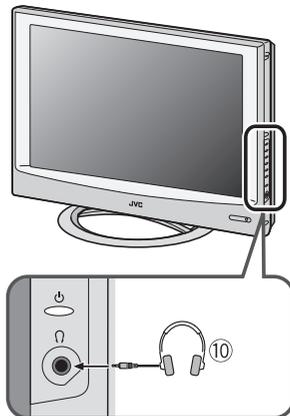
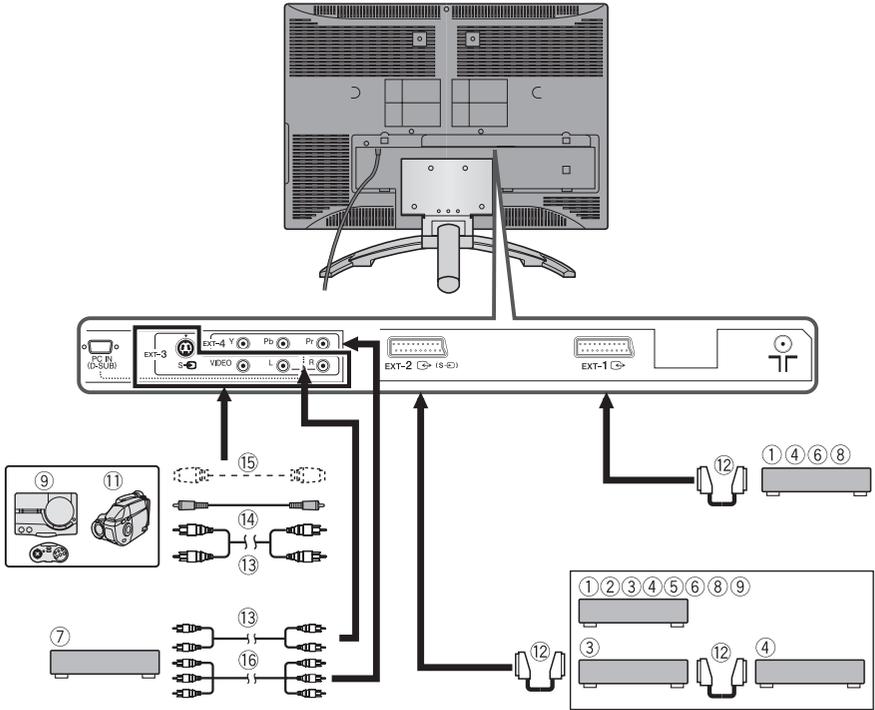
- Read the manuals that came with the equipment. Depending on the equipment, the connection method may be different from the diagram. Also, the equipment settings may need to change depending on the connection method.
- Turn off all the equipment including the TV.
- The “Specifications” on page 49 give the details of the EXT terminals. If you are connecting equipment not listed in the following connection diagram, see the table to choose the best EXT terminal.
- Connecting cables are not supplied.

### ■ Connecting the PC

For details, see “Connecting to the computer” on page 40.

- ① VCR (composite signal)
- ② VCR (composite signal/S-VIDEO signal)
- ③ T-V LINK compatible VCR (composite signal/S-VIDEO signal)
- ④ Decoder
- ⑤ DVD player (composite signal/S-VIDEO signal)
- ⑥ DVD player (composite signal/RGB signal)
- ⑦ DVD player (component video signals; Y/Pb/Pr)
- ⑧ TV game (composite signal/RGB signal)
- ⑨ TV game (composite signal/S-VIDEO signal)
- ⑩ Headphones
- ⑪ Camcorder (composite signal/S-VIDEO signal)
- ⑫ SCART cable
- ⑬ Audio cable
- ⑭ Video cable
- ⑮ S-VIDEO cable
- ⑯ Component cable

without terminal covers



### ■ Equipment which can output the S-VIDEO signal (Y/C signal) such as an S-VHS VCR

Connect the equipment to an EXT terminal other than EXT-1/EXT-4.

You can choose between an S-VIDEO signal (Y/C signal) and a regular video signal (composite signal). For details of how to operate the equipment, see “S-IN (S-VIDEO input)” on page 37.

### ■ T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the EXT-2 terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the EXT-2 terminal, be sure to connect the decoder to the VCR. If not, the T-V LINK function may not work properly.
- When you connect the decoder to the VCR, after you have stored TV channels in the programme numbers (PR) list, set the DECODER (EXT-2) function for the programme number (PR) to ON to unscramble a scrambled TV channel. For details, see “DECODER (EXT-2)” on page 36.

### ■ Connecting headphones

Connect the headphones with a stereo mini-jack (3.5 mm diameter) to the headphone socket at the TV rear panel.

- No sound comes from the TV speakers when the headphones are connected.

### ■ Video or sound signal output from the EXT-2 terminal

You can change over the output of the video/sound signal from the EXT-2 terminal. This is useful when you want to dub the video/sound from another device onto the VCR connected to the EXT-2 terminal. For details on how to do this, see “DUBBING” on page 38.

- The signals from EXT-4 and PC IN terminal cannot be output from EXT-2.

### ■ TV output from the EXT-1 terminal

The video/sound signal of a TV channel you are viewing is always output from the EXT-1 terminal.

- Changing over a programme number (PR) also changes over the TV output from the EXT-1 terminal.
- The video/sound signal from an EXT terminal cannot be output.
- Teletext programmes cannot be output.

# CH/CC numbers

When you want to use the INSERT function on page 35, find the CH/CC number corresponding to the Channel number of the TV channel from this table.

CH	Channel	CH	Channel	CC	Channel	CC	Channel
CH 02 / CH 202	E2, R1	CH 40 / CH 240	E40, R40	CC 01 / CC 201	S1	CC 31 / CC 231	S31
CH 03 / CH 203	E3, ITALY A	CH 41 / CH 241	E41, R41	CC 02 / CC 202	S2	CC 32 / CC 232	S32
CH 04 / CH 204	E4, ITALY B, R2	CH 42 / CH 242	E42, R42	CC 03 / CC 203	S3	CC 33 / CC 233	S33
CH 05 / CH 205	E5, ITALY D, R6	CH 43 / CH 243	E43, R43	CC 04 / CC 204	S4	CC 34 / CC 234	S34
CH 06 / CH 206	E6, ITALY E, R7	CH 44 / CH 244	E44, R44	CC 05 / CC 205	S5	CC 35 / CC 235	S35
CH 07 / CH 207	E7, ITALY F, R8	CH 45 / CH 245	E45, R45	CC 06 / CC 206	S6	CC 36 / CC 236	S36
CH 08 / CH 208	E8, R9	CH 46 / CH 246	E46, R46	CC 07 / CC 207	S7	CC 37 / CC 237	S37
CH 09 / CH 209	E9, ITALY G	CH 47 / CH 247	E47, R47	CC 08 / CC 208	S8	CC 38 / CC 238	S38
CH 10 / CH 210	E10, ITALY H, R10	CH 48 / CH 248	E48, R48	CC 09 / CC 209	S9	CC 39 / CC 239	S39
CH 11 / CH 211	E11, ITALY H+1, R11	CH 49 / CH 249	E49, R49	CC 10 / CC 210	S10	CC 40 / CC 240	S40
CH 12 / CH 212	E12, ITALY H+2, R12	CH 50 / CH 250	E50, R50	CC 11 / CC 211	S11	CC 41 / CC 241	S41
CH 21 / CH 221	E21, R21	CH 51 / CH 251	E51, R51	CC 12 / CC 212	S12	CC 75 / CC 275	X
CH 22 / CH 222	E22, R22	CH 52 / CH 252	E52, R52	CC 13 / CC 213	S13	CC 76 / CC 276	Y, R3
CH 23 / CH 223	E23, R23	CH 53 / CH 253	E53, R53	CC 14 / CC 214	S14	CC 77 / CC 277	Z, ITALY C, R4
CH 24 / CH 224	E24, R24	CH 54 / CH 254	E54, R54	CC 15 / CC 215	S15	CC 78 / CC 278	Z+1, R5
CH 25 / CH 225	E25, R25	CH 55 / CH 255	E55, R55	CC 16 / CC 216	S16	CC 79 / CC 279	Z+2
CH 26 / CH 226	E26, R26	CH 56 / CH 256	E56, R56	CC 17 / CC 217	S17		
CH 27 / CH 227	E27, R27	CH 57 / CH 257	E57, R57	CC 18 / CC 218	S18		
CH 28 / CH 228	E28, R28	CH 58 / CH 258	E58, R58	CC 19 / CC 219	S19		
CH 29 / CH 229	E29, R29	CH 59 / CH 259	E59, R59	CC 20 / CC 220	S20		
CH 30 / CH 230	E30, R30	CH 60 / CH 260	E60, R60	CC 21 / CC 221	S21		
CH 31 / CH 231	E31, R31	CH 61 / CH 261	E61, R61	CC 22 / CC 222	S22		
CH 32 / CH 232	E32, R32	CH 62 / CH 262	E62, R62	CC 23 / CC 223	S23		
CH 33 / CH 233	E33, R33	CH 63 / CH 263	E63, R63	CC 24 / CC 224	S24		
CH 34 / CH 234	E34, R34	CH 64 / CH 264	E64, R64	CC 25 / CC 225	S25		
CH 35 / CH 235	E35, R35	CH 65 / CH 265	E65, R65	CC 26 / CC 226	S26		
CH 36 / CH 236	E36, R36	CH 66 / CH 266	E66, R66	CC 27 / CC 227	S27		
CH 37 / CH 237	E37, R37	CH 67 / CH 267	E67, R67	CC 28 / CC 228	S28		
CH 38 / CH 238	E38, R38	CH 68 / CH 268	E68, R68	CC 29 / CC 229	S29		
CH 39 / CH 239	E39, R39	CH 69 / CH 269	E69, R69	CC 30 / CC 230	S30		

CH	Channel
CH 102	F2
CH 103	F3
CH 104	F4
CH 105	F5
CH 106	F6
CH 107	F7
CH 108	F8
CH 109	F9
CH 110	F10
CH 121	F21
CH 122	F22
CH 123	F23
CH 124	F24
CH 125	F25
CH 126	F26
CH 127	F27
CH 128	F28
CH 129	F29
CH 130	F30
CH 131	F31
CH 132	F32
CH 133	F33
CH 134	F34
CH 135	F35
CH 136	F36
CH 137	F37
CH 138	F38
CH 139	F39
CH 140	F40

CH	Channel
CH 141	F41
CH 142	F42
CH 143	F43
CH 144	F44
CH 145	F45
CH 146	F46
CH 147	F47
CH 148	F48
CH 149	F49
CH 150	F50
CH 151	F51
CH 152	F52
CH 153	F53
CH 154	F54
CH 155	F55
CH 156	F56
CH 157	F57
CH 158	F58
CH 159	F59
CH 160	F60
CH 161	F61
CH 162	F62
CH 163	F63
CH 164	F64
CH 165	F65
CH 166	F66
CH 167	F67
CH 168	F68
CH 169	F69

CC	Frequency (MHz)
CC 110	116 - 124
CC 111	124 - 132
CC 112	132 - 140
CC 113	140 - 148
CC 114	148 - 156
CC 115	156 - 164
CC 116	164 - 172
CC 123	220 - 228
CC 124	228 - 236
CC 125	236 - 244
CC 126	244 - 252
CC 127	252 - 260
CC 128	260 - 268
CC 129	268 - 276
CC 130	276 - 284
CC 131	284 - 292
CC 132	292 - 300
CC 133	300 - 306
CC 141	306 - 311
CC 142	311 - 319
CC 143	319 - 327
CC 144	327 - 335
CC 145	335 - 343
CC 146	343 - 351
CC 147	351 - 359
CC 148	359 - 367
CC 149	367 - 375
CC 150	375 - 383
CC 151	383 - 391

CC	Frequency (MHz)
CC 152	391 - 399
CC 153	399 - 407
CC 154	407 - 415
CC 155	415 - 423
CC 156	423 - 431
CC 157	431 - 439
CC 158	439 - 447
CC 159	447 - 455
CC 160	455 - 463
CC 161	463 - 469

- When two CH/CC numbers correspond to one Channel number, choose either one according to the current COUNTRY setting. When the COUNTRY setting is other than FRANCE, choose a two-digit CH/CC number. When the COUNTRY setting is FRANCE, choose a three-digit CH/CC number.
  - Find the CH/CC number (CC110 to CC161) corresponding to the TV channel (SECAM-L system) from a French cable TV station, based on the broadcast frequency of the TV channel. When you do not know the broadcast frequency, please contact the cable TV station.
  - The CH/CC numbers of CH102-CH169 and CC110-CC161 correspond to the TV channels being broadcast by a SECAM-L system. The other CH/CC numbers correspond to the TV channels being broadcast by a method other than a SECAM-L system.
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# Troubleshooting

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If a problem arises while you are using the TV, please read this troubleshooting guide carefully before you ask to have the TV repaired. You may be able to fix it easily by yourself. For example, if the mains plug is disconnected from the mains outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

## Important:

- This troubleshooting guide only covers problems whose causes are not easy to decide. If you have a question when you are operating a function, read the page(s) for that function carefully, not this troubleshooting guide.
- If you follow the advice in this troubleshooting guide without any success, unplug the mains plug and ask for your TV to be repaired. Do not attempt to repair the TV by yourself or to remove the rear cover of the TV.

## ■ If you cannot turn on the TV

- Is the mains plug connected to the mains outlet?
- Is the power lamp lit? If not, press the  button on the TV.
- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ If you cannot turn off the TV

- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV off when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ No picture or no sound

- Have you chosen a TV channel with very poor reception? If so, the BLUE BACK function will be activated: the entire screen becomes blue, and the sound is muted. If you still want to view the TV channel, follow the description “BLUE BACK” on page 30 to change the BLUE BACK function setting to OFF.
- If the SYSTEM setting for a TV channel is incorrect, it may prevent the sound from being issued. Follow the description “EDIT/MANUAL” on page 32 to use the MANUAL function to try to change the SYSTEM setting.

## ■ Poor picture

- If noise (snow) totally blocks out the picture, there may be a problem with the aerial or aerial cable. Check the following to try to solve the problem:
  - Have the TV and aerial been connected properly?
  - Has the aerial cable been damaged?
  - Is the aerial pointing in the right direction?
  - Is the aerial itself faulty?
- If the TV or aerial suffers interference from other equipment, stripes or noise may appear in the picture. Move any equipment such as an amplifier, personal computer, or a hair drier, that can cause interference away from your TV. Or try moving the TV. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.
- If the TV suffers interference from signals reflecting from mountains or buildings, double-pictures (ghosting) will occur. Try to change the aerial’s direction or replace it with one with better directionality.
- Are your COLOUR SYSTEM settings correct? Follow the description “COLOUR SYSTEM” on page 26 to try to solve the trouble.
- Have the COLOUR and BRIGHT settings been adjusted properly? Follow the description “BRIGHT-2” and “COLOUR” on page 25 to try to adjust them properly.

- Videotaping teletext is not recommended because it may not record correctly.
- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal. There is nothing wrong with the TV.
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with progressive-scanning component signals. If this occurs, change the output setting of the connected device to interlace-scanning component signal output. See the instructions that came with the device for more information.

#### ■ Poor sound

- Have you adjusted BASS or TREBLE properly? If not, follow the description “BASS” or “TREBLE” on page 28.
- When TV channel reception is poor, it can be hard to hear stereo or bilingual sound. In this case, follow the description “STEREO / I • II” on page 28 to hear the sound more easily by changing it to a mono sound.

#### ■ If the TV does not respond to the remote control

- Have the batteries of the remote control worn out? Follow the description “Putting the batteries into the remote control” on page 7 and replace them with new batteries.
- Have you attempted to use the remote control from the sides or rear of the TV or from more than seven metres away from the TV? Use the remote control in front of your TV or from less than seven metres away.
- When you are viewing a teletext programme, you cannot operate the menus. Press the **TV** button to return to the ordinary TV programme, and then try operating the menus.
- If the TV suddenly stops responding, disconnect the power cord of the TV from the AC outlet. Connect them to the AC outlet again to turn on the TV. If the TV returns to a normal state, it is not a failure.

#### ■ Other issues

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV suddenly turns off, try to press the  $\odot$ /I (standby) button to turn on the TV once again. If the TV goes back to normal, there is no problem.
- When the TV is receiving a wide-screen signal (WSS) or a signal from an external device affecting the screen size, the ZOOM mode automatically changes. When you want to resume the previous ZOOM mode, press the **ZOOM** button again.
- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a fault. This is the time needed for the image to stabilize before it can be displayed.
- The TV may make a crackling sound due to a sudden change in temperature. The picture or sound may be normal. If you hear crackling sounds frequently while you are viewing the TV, there may be other causes. As a precaution, ask your service technician to inspect it.

- The top of the TV and the screen may become hot during use but this has no affect on the performance of the TV. Make sure that the ventilation holes are not blocked.
- When the picture is unstable, the screen may become white for a moment. This happens when the signal which drives the liquid crystal is missing. This is not a fault.
- When a still image has been displayed for a long period, a faint residual image may remain on the screen for a short time after the power has been turned off or when another image is displayed. This is not a fault and the image will eventually disappear.

# Specifications

Model	LT-26A60SJ
Broadcasting systems	CCIR B/G, I, D/K, L
Colour systems	PAL, SECAM • The EXT terminals also support the NTSC 3.58/4.43 MHz system.
Channels and frequencies	F2-F10, F21-F69, 116-172, E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, A-H, H+1, H+2, R1-R12, R21-R69 • French cable TV channel of broadcast frequencies 116 - 172 MHz and 220 - 469 MHz.
Sound-multiplex systems	NICAM (B/G, I, D/K, L) system, A2 (B/G, D/K) system
Teletext systems	FLOF (Fastext), TOP, WST (World Standard System)
Power requirements	110 - 240 V AC, 50/60 Hz
Power consumption	125 W (Standby: 2.0 W)
Screen size	Viewable area 66 cm (measured diagonally)
Audio output	Rated Power output: 5 W + 5 W
Speakers	6.6 cm round × 2
EXT-1 terminal	Euroconnector (21-pin, SCART) • Video input, Audio L/R inputs and RGB inputs are available. • TV broadcast outputs (Video and Audio L/R) are available.
EXT-2 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available. • T-V LINK functions are available.
EXT-3 terminal	RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.
EXT-4 terminal	RCA connectors × 3 + EXT-3 L/R • Component video (Y, Pb, Pr) input and Audio L/R inputs are available. • 625p, 525p, and 750p signals are available. 750p signal is only available for 60Hz. • Some DVD players can output 625p, 525p and 750p signals. • 750p are new high-definition signals.
PC INPUT terminal	Analog RGB D-SUB (15 pin) × 1 • PC signal is available. Refer to page 40 for details of the signals which can be input.
Headphone jack	Stereo mini-jack (3.5 mm in diameter)
Dimensions (W × H × D)	686 mm × 525 mm × 225 mm 686 mm × 474 mm × 121.5 mm (without stand)
Weight	15.6 kg 12.4 kg (without stand)
Accessories	Remote control unit × 1 (RM-C1816S) AA/R6 dry cell battery × 2

## We may change the design and specifications without notice.

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this would be an infringement of copyright.



**JVC**

# PARTS LIST

Preliminary

## CAUTION

- The parts identified by the  $\Delta$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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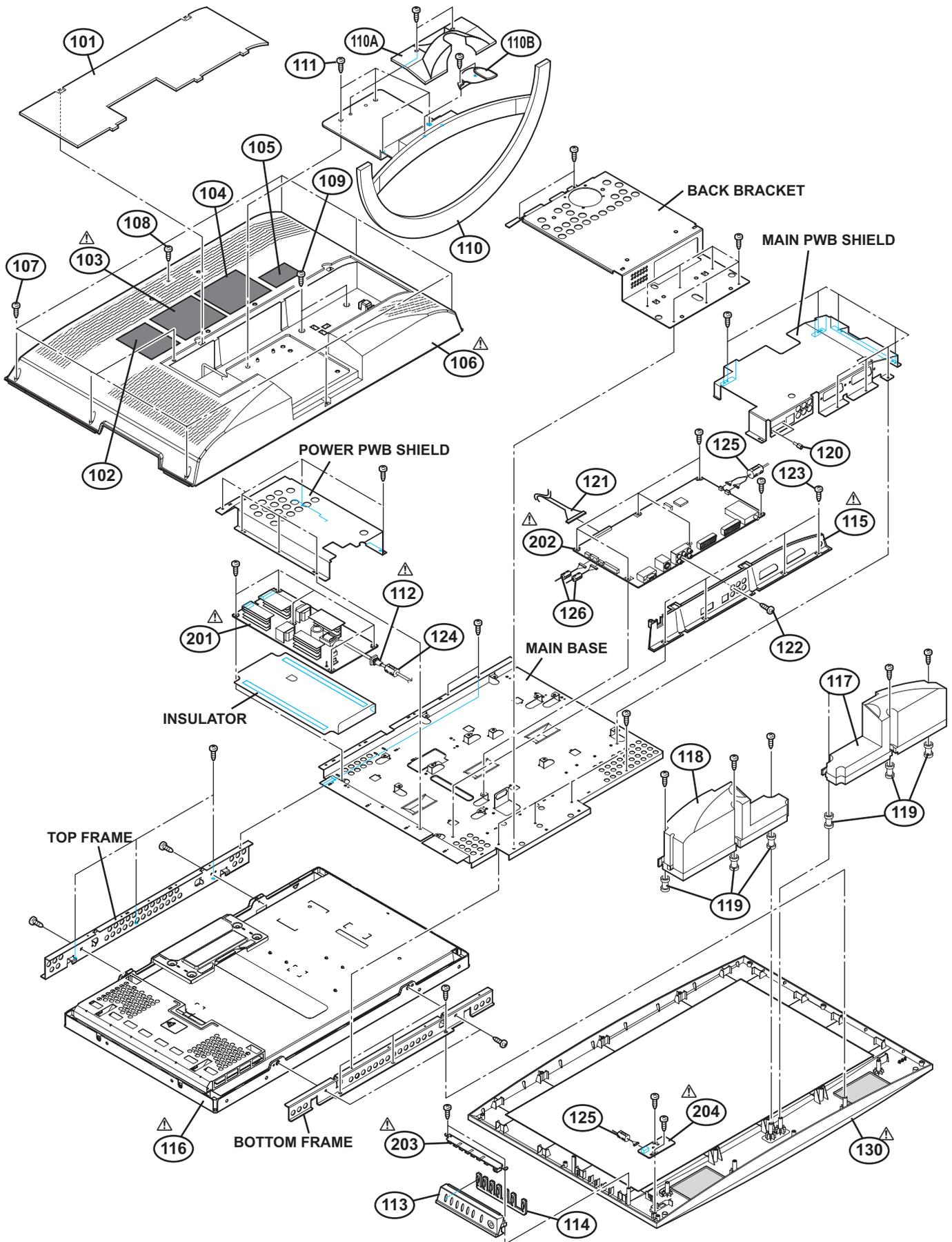
## USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y	LT-26A60BU	LT-26A60SJ	LT-26A60SU
MAIN P.W.B	QAL0728-001	←	←
POWER P.W.B	QAL0729-001	←	←
KEY BOARD P.W.B	QAL0730-001	←	←
LED BOARD SW P.W.B	QAL0731-001	←	←
REMOTE CONTROL UNIT	RM-C1816S-1C	←	←

# EXPLODED VIEW PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
101	LC12342-001A-U	JACK COVER		LT-26A60BU
101	LC12342-002A-U	JACK COVER		LT-26A60SJ,LT-26A60SU
102	LC30789-002B-U	WARNING LABEL		LT-26A60BU,LT-26A60SU
△ 103	LC21301-047A-U	RATING LABEL		LT-26A60BU
△ 103	LC21301-049A-U	RATING LABEL		LT-26A60SJ
△ 103	LC21301-045A-U	RATING LABEL		LT-26A60SU
104	LC21300-037A-U	RATING LABEL		LT-26A60BU
104	LC21300-039A-U	RATING LABEL		LT-26A60SJ
104	LC21300-035A-U	RATING LABEL		LT-26A60SU
105	LC41999-004A-U	CAUTION LABEL		
△ 106	LC12341-001A-U	REAR COVER		LT-26A60BU
△ 106	LC12341-002A-U	REAR COVER		LT-26A60SJ,LT-26A60SU
107	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x8)	
108	LC42063-001A	SCREW		
109	LC42063-001A	SCREW	(x2)	
110	GA10045-002A-U	STAND ASSY		LT-26A60BU
110	GA10045-001A-U	STAND ASSY		LT-26A60SJ,LT-26A60SU
110A	GA30080-002A-U	STAND COVER		LT-26A60BU
110A	GA30080-001A-U	STAND COVER		LT-26A60SJ,LT-26A60SU
110B	GA30081-002A-U	CABLE COVER		LT-26A60BU
110B	GA30081-001A-U	CABLE COVER		LT-26A60SJ,LT-26A60SU
111	QYSPSPD5016MA	SCREW	M5 x 16mm(x4)	
△ 112	QMPN260-170-JC	POWER CORD(EK)	1.7m BLACK	LT-26A60SJ
△ 112	QMPK300-170-JC	POWER CORD(EU)	1.7m BLACK	LT-26A60BU,LT-26A60SU
113	LC21908-001A-U	KNOB BASE		LT-26A60BU
113	LC21908-002A-U	KNOB BASE		LT-26A60SJ,LT-26A60SU
114	LC33186-001A-U	CONTROL KNOB		
△ 115	LC12387-001A-U	TERMINAL BASE		LT-26A60BU
△ 115	LC12387-002A-U	TERMINAL BASE		LT-26A60SJ,LT-26A60SU
△ 116	QLD0370-001	LCD PANEL UNIT		
117	LC42239-001A-C	SPEAKER ASSY(L)		
118	LC42239-002A-C	SPEAKER ASSY(R)		
119	LC40226-003A-H	SPACER	(x6)	
120	QNB0036-001	HEX SCREW	(x2)	LT-26A60BU,LT-26A60SJ
121	WJW0027-001A-E	DIGITAL(LVDS)CABLE		
122	QYSBSF3010ZA	TAP SCREW	M3 x 10mm	
123	LC42301-001A	SCREW	(x4)	
124	QQR0491-002	FERRITE CORE		
125	QQR0491-001	FERRITE CORE	(x2)	
126	QQR0490-001	NOISE FILTER	(x2)	
△ 130	LC12414-001A-U	FRONT PANEL ASSY		LT-26A60BU
△ 130	LC12414-002A-U	FRONT PANEL ASSY		LT-26A60SJ,LT-26A60SU
△ 201	QAL0729-001	POWER PWB		
△ 202	QAL0728-001	MAIN PWB		
△ 203	QAL0730-001	KEY PWB		
△ 204	QAL0731-001	LED PWB		

# EXPLODED VIEW



# PRINTED WIRING BOARD PARTS LIST

## MAIN P.W. BOARD ASS'Y (QAL0728-001)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
				ZD219	T0408-00002A	Z DIODE	
				ZD221	T0408-00002A	Z DIODE	
				ZD222	T0408-00002A	Z DIODE	
				ZD225	T0408-00002A	Z DIODE	
				ZD227	T0408-00002A	Z DIODE	
			(SERVICE)	ZD230	T0408-00002A	Z DIODE	
				ZD231	T0408-00002A	Z DIODE	
				ZD232	T0408-00002A	Z DIODE	
				ZD250	T0408-00002A	Z DIODE	
				ZD251	T0408-00002A	Z DIODE	
				ZD252	T0408-00002A	Z DIODE	
				ZD253	T0408-00002A	Z DIODE	
				ZD254	T0408-00002A	Z DIODE	
				ZD255	T0408-00002A	Z DIODE	
				ZD256	T0408-00002A	Z DIODE	
				ZD257	T0408-00002A	Z DIODE	
				ZD258	T0408-00002A	Z DIODE	
				ZD259	T0408-00002A	Z DIODE	
				ZD260	T0408-00002A	Z DIODE	
				ZD261	T0408-00002A	Z DIODE	
				ZD262	T0408-00002A	Z DIODE	
				ZD263	T0408-00002A	Z DIODE	
				ZD264	T0408-00002A	Z DIODE	
				ZD265	T0408-00002A	Z DIODE	
				ZD266	T0408-00002A	Z DIODE	
				ZD267	T0408-00002A	Z DIODE	
				ZD270	T0408-00002A	Z DIODE	
				ZD271	T0408-00002A	Z DIODE	
				ZD702	T0407-00005A	Z DIODE	
				C101	T2203-DC104E	C CAPACITOR	0.1uF 25V K
				C102	T2203-FC104E	C CAPACITOR	0.1uF 50V Z
				C103	T2203-BC106E	C CAPACITOR	10uF 10V Z
				C105	T2203-FC104E	C CAPACITOR	0.1uF 50V Z
				C106	T2203-BC106E	C CAPACITOR	10uF 10V Z
				C107	T2203-BC106E	C CAPACITOR	10uF 10V Z
				C109	T2203-BC106E	C CAPACITOR	10uF 10V Z
				C110	T2203-BC106E	C CAPACITOR	10uF 10V Z
				C112	T2203-BC106E	C CAPACITOR	10uF 10V Z
				C113	T2203-BC106E	C CAPACITOR	10uF 10V Z
				C201	T2203-FC102D	C CAPACITOR	1000pF 50V K
				C202	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C203	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C204	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C205	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C206	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C207	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C208	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C209	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C210	T2203-FC102D	C CAPACITOR	1000pF 50V K
				C211	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C213	T2203-FC100D	C CAPACITOR	10pF 50V K
				C214	T2203-FC100D	C CAPACITOR	10pF 50V K
				C215	T2203-FC100D	C CAPACITOR	10pF 50V K
				C216	T2203-FC471D	C CAPACITOR	470pF 50V K
				C217	T2203-FC103D	C CAPACITOR	0.01uF 50V K
				C218	T2203-FC471D	C CAPACITOR	470pF 50V K
				C219	T2203-FC103D	C CAPACITOR	0.01uF 50V K
				C220	T2203-FC471D	C CAPACITOR	470pF 50V K
				C221	T2203-FC103D	C CAPACITOR	0.01uF 50V K
				C222	T2203-FC471D	C CAPACITOR	470pF 50V K
				C223	T2203-FC103D	C CAPACITOR	0.01uF 50V K
				C226	T2203-FC471D	C CAPACITOR	470pF 50V K
				C227	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C228	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C229	T2203-FC473D	C CAPACITOR	0.047uF 50V K
				C230	T2203-FC471D	C CAPACITOR	470pF 50V K
				C231	T2203-FC471D	C CAPACITOR	470pF 50V K
				C232	T2203-FC471D	C CAPACITOR	470pF 50V K
				C233	T2203-FC471D	C CAPACITOR	470pF 50V K
				C234	T2203-FC471D	C CAPACITOR	470pF 50V K
				C235	T2203-FC471D	C CAPACITOR	470pF 50V K
				C236	T2203-FC100D	C CAPACITOR	10pF 50V K
				C238	T2203-FC100D	C CAPACITOR	10pF 50V K
				C242	T2203-FC331D	C CAPACITOR	330pF 50V K
				C243	T2203-FC331D	C CAPACITOR	330pF 50V K
				C244	T2203-FC331D	C CAPACITOR	330pF 50V K
				C248	T2203-FC334D	C CAPACITOR	0.33uF 16V Z
				C249	T2203-FC334D	C CAPACITOR	0.33uF 16V Z
				C301	T2203-DC104E	C CAPACITOR	0.1uF 25V K
				C302	T2203-DC104E	C CAPACITOR	0.1uF 25V K
				C303	T2203-DC104E	C CAPACITOR	0.1uF 25V K
				C304	T2203-DC104E	C CAPACITOR	0.1uF 25V K
				C305	T2203-DC104E	C CAPACITOR	0.1uF 25V K
				C307	T2203-FC103D	C CAPACITOR	0.01uF 50V K
U101	T1001-00081A	IC					
U301	T1001-00073A	IC					
U302	T1001-00064A	IC					
U303	ATF32-26A60SU	IC					
U401	T1001-00084A	IC					
U402	T1001-00085A	IC					
U405	T1001-00075A	IC					
U501	T1001-00086A	IC					
U502	T1001-00063A	IC					
U601	T1001-00087A	IC					
U602	T1001-00088A	IC					
U603	T1001-00070A	IC					
U801	T0507-00002A	TRANSISTOR					
U802	T0507-00002A	TRANSISTOR					
Q101	T1001-00052A	IC					
Q102	T0507-00001A	TRANSISTOR					
Q103	T0507-00001A	TRANSISTOR					
Q104	T0507-00001A	TRANSISTOR					
Q105	T0507-00001A	TRANSISTOR					
Q106	T0507-00001A	TRANSISTOR					
Q108	T0507-00001A	TRANSISTOR					
Q202	T0507-00001A	TRANSISTOR					
Q203	T0507-00001A	TRANSISTOR					
Q301	T1001-00049A	IC					
Q303	T1001-00078A	IC					
Q304	T0507-00003A	TRANSISTOR					
Q305	T0507-00003A	TRANSISTOR					
Q306	T0507-00007A	TRANSISTOR					
Q307	T0507-00008A	TRANSISTOR					
Q308	T0507-00001A	TRANSISTOR					
Q309	T0507-00001A	TRANSISTOR					
Q311	T0507-00001A	TRANSISTOR					
Q315	T0507-00006A	TRANSISTOR					
Q316	T0507-00001A	TRANSISTOR					
Q317	T0507-00008A	TRANSISTOR					
Q403	T0507-00006A	TRANSISTOR					
Q501	T1001-00079A	IC					
Q502	T1001-00048A	IC					
Q503	T0507-00007A	TRANSISTOR					
Q601	T0507-00006A	TRANSISTOR					
Q602	T0507-00001A	TRANSISTOR					
Q603	T0507-00001A	TRANSISTOR					
Q604	T0507-00005A	TRANSISTOR					
Q701	T0507-00001A	TRANSISTOR					
Q702	T0507-00001A	TRANSISTOR					
Q703	T0507-00001A	TRANSISTOR					
Q801	T1001-00089A	IC					
Q802	T0507-00001A	TRANSISTOR					
Q804	T1001-00051A	IC					
Q805	T0507-00001A	TRANSISTOR					
Q806	T0507-00001A	TRANSISTOR					
D101	T0407-00004A	DIODE					
D205	T0408-00002A	Z DIODE					
D206	T0408-00002A	Z DIODE					
D207	T0408-00002A	Z DIODE					
D208	T0408-00002A	Z DIODE					
D209	T0408-00002A	Z DIODE					
D210	T0408-00002A	Z DIODE					
D301	T0407-00002A	DIODE					
D601	T0407-00002A	DIODE					
D602	T0407-00002A	DIODE					
D702	T0407-00002A	DIODE					
D704	T0407-00002A	DIODE					
D801	T0407-00003A	DIODE					
ZD101	T0408-00002A	Z DIODE					
ZD202	T0408-00002A	Z DIODE					
ZD203	T0408-00002A	Z DIODE					
ZD204	T0408-00002A	Z DIODE					
ZD206	T0408-00002A	Z DIODE					
ZD207	T0408-00002A	Z DIODE					
ZD208	T0408-00002A	Z DIODE					
ZD209	T0408-00002A	Z DIODE					
ZD210	T0408-00002A	Z DIODE					
ZD211	T0408-00002A	Z DIODE					
ZD212	T0408-00002A	Z DIODE					
ZD213	T0408-00002A	Z DIODE					
ZD214	T0408-00002A	Z DIODE					
ZD215	T0408-00002A	Z DIODE					
ZD216	T0408-00002A	Z DIODE					
ZD217	T0408-00002A	Z DIODE					
ZD218	T0408-00002A	Z DIODE					



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R127	2007-000090	C RESISTOR	10KΩ 1/16W J	R314	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R128	2007-000090	C RESISTOR	10KΩ 1/16W J	R315	2007-000309	C RESISTOR	10Ω 1/16W J
R129	2007-000090	C RESISTOR	10KΩ 1/16W J	R316	2007-000309	C RESISTOR	10Ω 1/16W J
R130	2007-000078	C RESISTOR	1KΩ 1/16W J	R317	2007-000309	C RESISTOR	10Ω 1/16W J
R131	2007-000090	C RESISTOR	10KΩ 1/16W J	R318	2007-000081	C RESISTOR	2.7KΩ 1/16W J
R132	2007-000097	C RESISTOR	47KΩ 1/16W J	R319	2007-000309	C RESISTOR	10Ω 1/16W J
R133	2007-000075	C RESISTOR	220Ω 1/16W J	R320	2007-000074	C RESISTOR	100Ω 1/16W J
R134	2007-000090	C RESISTOR	10KΩ 1/16W J	R321	2007-000081	C RESISTOR	2.7KΩ 1/16W J
R135	2007-000078	C RESISTOR	1KΩ 1/16W J	R322	2007-000074	C RESISTOR	100Ω 1/16W J
R136	2007-000129	C RESISTOR	27KΩ 1/16W J	R327	2007-000074	C RESISTOR	100Ω 1/16W J
R137	2007-000123	C RESISTOR	1.5KΩ 1/16W J	R328	2007-000074	C RESISTOR	100Ω 1/16W J
R138	2007-000090	C RESISTOR	10KΩ 1/16W J	R329	2007-001167	C RESISTOR	75Ω 1/16W J
R142	2007-000090	C RESISTOR	10KΩ 1/16W J	R330	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R143	2007-000129	C RESISTOR	27KΩ 1/16W J	R331	2007-000074	C RESISTOR	100Ω 1/16W J
R210	2007-000643	C RESISTOR	270Ω 1/16W J	R332	2007-000071	C RESISTOR	22Ω 1/16W J
R211	2007-000074	C RESISTOR	100Ω 1/16W J	R333	2007-000071	C RESISTOR	22Ω 1/16W J
R214	2007-000078	C RESISTOR	1KΩ 1/16W J	R335	2007-000094	C RESISTOR	22KΩ 1/16W J
R215	2007-000078	C RESISTOR	1KΩ 1/16W J	R336	2007-000097	C RESISTOR	47KΩ 1/16W J
R216	2007-000078	C RESISTOR	1KΩ 1/16W J	R337	2007-000082	C RESISTOR	3.3KΩ 1/16W J
R217	2007-000078	C RESISTOR	1KΩ 1/16W J	R338	2007-000082	C RESISTOR	3.3KΩ 1/16W J
R218	2007-000078	C RESISTOR	1KΩ 1/16W J	R339	2007-000082	C RESISTOR	3.3KΩ 1/16W J
R219	2007-000078	C RESISTOR	1KΩ 1/16W J	R340	2007-000071	C RESISTOR	22Ω 1/16W J
R220	2007-000078	C RESISTOR	1KΩ 1/16W J	R341	2007-000074	C RESISTOR	100Ω 1/16W J
R223	2007-000077	C RESISTOR	470Ω 1/16W J	R342	2007-000309	C RESISTOR	10Ω 1/16W J
R224	2007-000113	C RESISTOR	33Ω 1/16W J	R343	2007-000078	C RESISTOR	1KΩ 1/16W J
R225	2007-001167	C RESISTOR	75Ω 1/16W J	R344	2007-000074	C RESISTOR	100Ω 1/16W J
R226	2007-000113	C RESISTOR	33Ω 1/16W J	R345	2007-000074	C RESISTOR	100Ω 1/16W J
R227	2007-001167	C RESISTOR	75Ω 1/16W J	R346	2007-000074	C RESISTOR	100Ω 1/16W J
R228	2007-000113	C RESISTOR	33Ω 1/16W J	R347	2007-000074	C RESISTOR	100Ω 1/16W J
R229	2007-001167	C RESISTOR	75Ω 1/16W J	R348	2007-000074	C RESISTOR	100Ω 1/16W J
R230	2007-000113	C RESISTOR	33Ω 1/16W J	R349	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R231	2007-000113	C RESISTOR	33Ω 1/16W J	R350	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R232	2007-000077	C RESISTOR	470Ω 1/16W J	R351	2007-000113	C RESISTOR	33Ω 1/16W J
R233	2007-000113	C RESISTOR	33Ω 1/16W J	R352	2007-000113	C RESISTOR	33Ω 1/16W J
R235	2007-001167	C RESISTOR	75Ω 1/16W J	R353	2007-000113	C RESISTOR	33Ω 1/16W J
R236	2007-001167	C RESISTOR	75Ω 1/16W J	R354	2007-000113	C RESISTOR	33Ω 1/16W J
R237	2007-000115	C RESISTOR	82Ω 1/16W J	R355	2007-000074	C RESISTOR	100Ω 1/16W J
R238	2007-000115	C RESISTOR	82Ω 1/16W J	R356	2007-000074	C RESISTOR	100Ω 1/16W J
R239	2007-000115	C RESISTOR	82Ω 1/16W J	R357	2007-000082	C RESISTOR	3.3KΩ 1/16W J
R240	2007-001167	C RESISTOR	75Ω 1/16W J	R358	2007-000074	C RESISTOR	100Ω 1/16W J
R241	2007-001167	C RESISTOR	75Ω 1/16W J	R359	2007-000074	C RESISTOR	100Ω 1/16W J
R242	2007-001167	C RESISTOR	75Ω 1/16W J	R360	2007-000082	C RESISTOR	3.3KΩ 1/16W J
R243	2007-000078	C RESISTOR	1KΩ 1/16W J	R361	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R244	2007-000078	C RESISTOR	1KΩ 1/16W J	R363	2007-000120	C RESISTOR	680Ω 1/16W J
R245	2007-001167	C RESISTOR	75Ω 1/16W J	R364	2007-000070	C RESISTOR	0Ω 1/16W J
R246	2007-001167	C RESISTOR	75Ω 1/16W J	R365	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R247	2007-001167	C RESISTOR	75Ω 1/16W J	R367	2007-000074	C RESISTOR	100Ω 1/16W J
R248	2007-000090	C RESISTOR	10KΩ 1/16W J	R368	2007-000097	C RESISTOR	47KΩ 1/16W J
R249	2007-000090	C RESISTOR	10KΩ 1/16W J	R370	2007-000090	C RESISTOR	10KΩ 1/16W J
R255	2007-000074	C RESISTOR	100Ω 1/16W J	R371	2007-000076	C RESISTOR	330Ω 1/16W J
R256	2007-001167	C RESISTOR	75Ω 1/16W J	R373	2007-000074	C RESISTOR	100Ω 1/16W J
R260	2007-001167	C RESISTOR	75Ω 1/16W J	R374	2007-000094	C RESISTOR	22KΩ 1/16W J
R261	2007-000129	C RESISTOR	27KΩ 1/16W J	R375	2007-000090	C RESISTOR	10KΩ 1/16W J
R262	2007-001167	C RESISTOR	75Ω 1/16W J	R376	2007-000074	C RESISTOR	100Ω 1/16W J
R263	2007-001167	C RESISTOR	75Ω 1/16W J	R377	2007-000070	C RESISTOR	0Ω 1/16W J
R264	2007-001167	C RESISTOR	75Ω 1/16W J	R378	2007-000078	C RESISTOR	1KΩ 1/16W J
R267	2007-001167	C RESISTOR	75Ω 1/16W J	R380	2007-000090	C RESISTOR	10KΩ 1/16W J
R271	2007-000074	C RESISTOR	100Ω 1/16W J	R382	2007-000074	C RESISTOR	100Ω 1/16W J
R272	2007-000074	C RESISTOR	100Ω 1/16W J	R383	2007-000119	C RESISTOR	560Ω 1/16W J
R273	2007-000643	C RESISTOR	270Ω 1/16W J	R385	2007-000074	C RESISTOR	100Ω 1/16W J
R274	2007-000074	C RESISTOR	100Ω 1/16W J	R388	2007-000070	C RESISTOR	0Ω 1/16W J
R275	2007-000070	C RESISTOR	0Ω 1/16W J	R390	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R277	2007-000070	C RESISTOR	0Ω 1/16W J	R391	2007-000070	C RESISTOR	0Ω 1/16W J
R278	2007-000078	C RESISTOR	1KΩ 1/16W J	R392	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R279	2007-000078	C RESISTOR	1KΩ 1/16W J	R393	2007-000074	C RESISTOR	100Ω 1/16W J
R280	2007-000078	C RESISTOR	1KΩ 1/16W J	R394	2007-000078	C RESISTOR	1KΩ 1/16W J
R281	2007-000115	C RESISTOR	82Ω 1/16W J	R395	2007-000070	C RESISTOR	0Ω 1/16W J
R282	2007-000115	C RESISTOR	82Ω 1/16W J	R396	2007-000076	C RESISTOR	330Ω 1/16W J
R283	2007-000115	C RESISTOR	82Ω 1/16W J	R397	2007-000076	C RESISTOR	330Ω 1/16W J
R285	2007-001167	C RESISTOR	75Ω 1/16W J	R411	2007-000077	C RESISTOR	470Ω 1/16W J
R286	2007-000129	C RESISTOR	27KΩ 1/16W J	R412	2007-001134	C RESISTOR	68Ω 1/16W J
R287	2007-000882	C RESISTOR	4.7Ω 1/16W J	R413	2007-000074	C RESISTOR	100Ω 1/16W J
R288	2007-001167	C RESISTOR	75Ω 1/16W J	R414	2007-000113	C RESISTOR	33Ω 1/16W J
R289	2007-001167	C RESISTOR	75Ω 1/16W J	R415	2007-000120	C RESISTOR	680Ω 1/16W J
R290	2007-000074	C RESISTOR	100Ω 1/16W J	R416	2007-000071	C RESISTOR	22Ω 1/16W J
R291	2007-000074	C RESISTOR	100Ω 1/16W J	R417	2007-000071	C RESISTOR	22Ω 1/16W J
R292	2007-000078	C RESISTOR	1KΩ 1/16W J	R418	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R294	2007-000882	C RESISTOR	4.7Ω 1/16W J	R419	2007-000070	C RESISTOR	0Ω 1/16W J
R295	2007-001167	C RESISTOR	75Ω 1/16W J	R427	2007-000109	C RESISTOR	1MΩ 1/16W J
R296	2007-000078	C RESISTOR	1KΩ 1/16W J	R429	2007-000113	C RESISTOR	33Ω 1/16W J
R299	2007-000113	C RESISTOR	33Ω 1/16W J	R432	2007-000113	C RESISTOR	33Ω 1/16W J
R304	2007-000074	C RESISTOR	100Ω 1/16W J	R434	2007-000113	C RESISTOR	33Ω 1/16W J
R305	2007-000074	C RESISTOR	100Ω 1/16W J	R436	2007-000113	C RESISTOR	33Ω 1/16W J
R307	2007-000074	C RESISTOR	100Ω 1/16W J	R438	2007-000113	C RESISTOR	33Ω 1/16W J
R308	2007-000074	C RESISTOR	100Ω 1/16W J	R440	2007-000113	C RESISTOR	33Ω 1/16W J
R309	2007-000074	C RESISTOR	100Ω 1/16W J	R442	2007-000113	C RESISTOR	33Ω 1/16W J
R310	2007-000090	C RESISTOR	10KΩ 1/16W J	R443	2007-000113	C RESISTOR	33Ω 1/16W J
R311	2007-000074	C RESISTOR	100Ω 1/16W J	R444	2007-000113	C RESISTOR	33Ω 1/16W J
R313	2007-000074	C RESISTOR	100Ω 1/16W J	R445	2007-000113	C RESISTOR	33Ω 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R446	2007-000113	C RESISTOR	33Ω 1/16W J	R631	2007-000090	C RESISTOR	10KΩ 1/16W J
R447	2007-000113	C RESISTOR	33Ω 1/16W J	R632	2007-000309	C RESISTOR	10Ω 1/16W J
R448	2007-000113	C RESISTOR	33Ω 1/16W J	R633	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R449	2007-000113	C RESISTOR	33Ω 1/16W J	R701	2007-000074	C RESISTOR	100Ω 1/16W J
R456	2007-000084	C RESISTOR	4.7KΩ 1/16W J	R702	2007-000074	C RESISTOR	100Ω 1/16W J
R457	2007-001167	C RESISTOR	75Ω 1/16W J	R703	2007-000074	C RESISTOR	100Ω 1/16W J
R458	2007-001167	C RESISTOR	75Ω 1/16W J	R704	2007-000119	C RESISTOR	560Ω 1/16W J
R459	2007-001167	C RESISTOR	75Ω 1/16W J	R705	2007-000121	C RESISTOR	820Ω 1/16W J
R460	2007-000084	C RESISTOR	4.7KΩ 1/16W J	R707	2007-000309	C RESISTOR	10Ω 1/16W J
R461	2007-000107	C RESISTOR	470KΩ 1/16W J	R708	2007-000074	C RESISTOR	100Ω 1/16W J
R462	2007-000084	C RESISTOR	4.7KΩ 1/16W J	R709	2007-000309	C RESISTOR	10Ω 1/16W J
R501	2007-000090	C RESISTOR	10KΩ 1/16W J	R710	2007-000078	C RESISTOR	1KΩ 1/16W J
R504	2007-000084	C RESISTOR	4.7KΩ 1/16W J	R711	2007-000102	C RESISTOR	100KΩ 1/16W J
R505	2007-000102	C RESISTOR	100KΩ 1/16W J	R712	2007-000102	C RESISTOR	100KΩ 1/16W J
R509	T2901-HC011A	CHIP BEAD	30Ω	R713	2007-000094	C RESISTOR	22KΩ 1/16W J
R510	T2901-HC011A	CHIP BEAD	30Ω	R801	2007-000090	C RESISTOR	10KΩ 1/16W J
R511	T2901-HC011A	CHIP BEAD	30Ω	R802	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R515	T2901-HC011A	CHIP BEAD	30Ω	R803	2007-000643	C RESISTOR	270Ω 1/16W J
R516	T2901-HC011A	CHIP BEAD	30Ω	R804	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R517	T2901-HC011A	CHIP BEAD	30Ω	R805	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R518	T2901-HC011A	CHIP BEAD	30Ω	R806	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R519	T2901-HC011A	CHIP BEAD	30Ω	R810	2007-000070	C RESISTOR	0Ω 1/16W J
R529	2007-000070	C RESISTOR	0Ω 1/16W J	L201	T2901-HC002A	CHIP BEAD	80Ω
R541	T2901-HC011A	CHIP BEAD	30Ω	L202	T2901-HC002A	CHIP BEAD	80Ω
R542	T2901-HC011A	CHIP BEAD	30Ω	L203	T2901-HC002A	CHIP BEAD	80Ω
R543	T2901-HC011A	CHIP BEAD	30Ω	L204	T2901-HC002A	CHIP BEAD	80Ω
R544	2007-000071	C RESISTOR	22Ω 1/16W J	L205	T2901-HC002A	CHIP BEAD	80Ω
R546	T2901-HC011A	CHIP BEAD	30Ω	L206	T2901-HC002A	CHIP BEAD	80Ω
R548	T2901-HC011A	CHIP BEAD	30Ω	L207	T2901-HC002A	CHIP BEAD	80Ω
R550	T2901-HC011A	CHIP BEAD	30Ω	L208	T2901-HC002A	CHIP BEAD	80Ω
R560	T2901-HC011A	CHIP BEAD	30Ω	L209	T2901-HC002A	CHIP BEAD	80Ω
R561	T2901-HC011A	CHIP BEAD	30Ω	L210	T2901-HC002A	CHIP BEAD	80Ω
R562	T2901-HC011A	CHIP BEAD	30Ω	L211	T2901-HC002A	CHIP BEAD	80Ω
R563	T2901-HC011A	CHIP BEAD	30Ω	L212	T2901-HC002A	CHIP BEAD	80Ω
R565	T2901-HC011A	CHIP BEAD	30Ω	L213	T2901-HC002A	CHIP BEAD	80Ω
R566	2007-000309	C RESISTOR	10Ω 1/16W J	L214	T2901-HC002A	CHIP BEAD	80Ω
R567	T2901-HC011A	CHIP BEAD	30Ω	L215	T2901-HC002A	CHIP BEAD	80Ω
R568	2007-000309	C RESISTOR	10Ω 1/16W J	L216	T2901-HC002A	CHIP BEAD	80Ω
R571	T2901-HC011A	CHIP BEAD	30Ω	L217	T2901-HC002A	CHIP BEAD	80Ω
R572	T2901-HC011A	CHIP BEAD	30Ω	L218	T2901-HC002A	CHIP BEAD	80Ω
R573	T2901-HC011A	CHIP BEAD	30Ω	L219	T2901-HC002A	CHIP BEAD	80Ω
R574	2007-000074	C RESISTOR	100Ω 1/16W J	L220	T2901-HC002A	CHIP BEAD	80Ω
R576	2007-000113	C RESISTOR	33Ω 1/16W J	L221	T2901-HC002A	CHIP BEAD	80Ω
R577	T2901-HC011A	CHIP BEAD	30Ω	L301	2007-000084	C RESISTOR	4.7KΩ 1/16W J
R579	T2901-HC011A	CHIP BEAD	30Ω	L302	T2901-HC002A	CHIP BEAD	80Ω
R580	2007-000113	C RESISTOR	33Ω 1/16W J	L303	T2901-HC002A	CHIP BEAD	80Ω
R581	2007-000113	C RESISTOR	33Ω 1/16W J	L304	T2901-HC002A	CHIP BEAD	80Ω
R582	T2901-HC011A	CHIP BEAD	30Ω	L305	T2901-HC002A	CHIP BEAD	80Ω
R583	T2901-HC011A	CHIP BEAD	30Ω	L306	T2901-JC004A	CHIP BEAD	500Ω
R584	T2901-HC011A	CHIP BEAD	30Ω	L317	T2703-IC002A	COIL-CHIP	10uH
R585	T2901-HC011A	CHIP BEAD	30Ω	L401	T2901-JC004A	CHIP BEAD	500Ω
R586	T2901-HC011A	CHIP BEAD	30Ω	L402	T2901-JC004A	CHIP BEAD	500Ω
R587	T2901-HC011A	CHIP BEAD	30Ω	L404	T2901-JC004A	CHIP BEAD	500Ω
R588	T2901-HC011A	CHIP BEAD	30Ω	L405	T2901-JC004A	CHIP BEAD	500Ω
R589	2007-000070	C RESISTOR	0Ω 1/16W J	L406	T2901-JC004A	CHIP BEAD	500Ω
R591	T2901-HC011A	CHIP BEAD	30Ω	L408	T2901-JC004A	CHIP BEAD	500Ω
R592	T2901-HC011A	CHIP BEAD	30Ω	L501	T2901-JC004A	CHIP BEAD	500Ω
R593	2007-000078	C RESISTOR	1KΩ 1/16W J	L502	T2901-JC004A	CHIP BEAD	500Ω
R594	2007-000078	C RESISTOR	1KΩ 1/16W J	L504	T2901-JC004A	CHIP BEAD	500Ω
R595	2007-000084	C RESISTOR	4.7KΩ 1/16W J	L505	T2901-JC004A	CHIP BEAD	500Ω
R596	2007-000084	C RESISTOR	4.7KΩ 1/16W J	L506	T2901-JC004A	CHIP BEAD	500Ω
R597	2007-000118	C RESISTOR	390Ω 1/16W J	L507	T2901-JC004A	CHIP BEAD	500Ω
R601	2007-000078	C RESISTOR	1KΩ 1/16W J	L509	T2901-JC004A	CHIP BEAD	500Ω
R602	2007-000100	C RESISTOR	68KΩ 1/16W J	L510	T2901-JC004A	CHIP BEAD	500Ω
R603	2007-000402	C RESISTOR	150Ω 1/16W J	L511	T2901-JC004A	CHIP BEAD	500Ω
R604	2007-000084	C RESISTOR	4.7KΩ 1/16W J	L512	T2901-JC004A	CHIP BEAD	500Ω
R605	2007-000078	C RESISTOR	1KΩ 1/16W J	L513	T2901-JC004A	CHIP BEAD	500Ω
R606	2007-000097	C RESISTOR	47KΩ 1/16W J	L514	T2901-JC004A	CHIP BEAD	500Ω
R607	2007-000084	C RESISTOR	4.7KΩ 1/16W J	L515	T2901-JC004A	CHIP BEAD	500Ω
R608	2007-000096	C RESISTOR	30KΩ 1/16W J	L516	T2901-JC004A	CHIP BEAD	500Ω
R609	2007-000078	C RESISTOR	1KΩ 1/16W J	L517	T2901-JC004A	CHIP BEAD	500Ω
R610	2007-000096	C RESISTOR	30KΩ 1/16W J	L5VA	T2901-JC005A	CHIP BEAD	80Ω
R611	2007-000078	C RESISTOR	1KΩ 1/16W J	L5VB	T2901-JC005A	CHIP BEAD	80Ω
R612	2007-000097	C RESISTOR	47KΩ 1/16W J	L5VC	T2901-JC005A	CHIP BEAD	80Ω
R613	2007-000074	C RESISTOR	100Ω 1/16W J	L601	T2703-JC011A	COIL-CHIP	10uH
R614	2007-000074	C RESISTOR	100Ω 1/16W J	L602	T2703-JC011A	COIL-CHIP	10uH
R615	2007-000074	C RESISTOR	100Ω 1/16W J	L603	T2901-JC004A	CHIP BEAD	500Ω
R616	2007-000074	C RESISTOR	100Ω 1/16W J	L606	T2901-JC004A	CHIP BEAD	500Ω
R617	2007-000074	C RESISTOR	100Ω 1/16W J	L608	T2901-JC004A	CHIP BEAD	500Ω
R618	2007-000074	C RESISTOR	100Ω 1/16W J	L701	T2703-IC002A	COIL-CHIP	10uH
R619	2007-000070	C RESISTOR	0Ω 1/16W J	L703	T2703-KC008A	COIL-SMD	680uH
R620	2007-000070	C RESISTOR	0Ω 1/16W J	L705	T2703-KC007A	COIL-SMD	470uH
R621	2007-000070	C RESISTOR	0Ω 1/16W J	L801	T2901-JC005A	CHIP BEAD	80Ω
R622	2007-000070	C RESISTOR	0Ω 1/16W J	L802	T2901-JC005A	CHIP BEAD	80Ω
R623	2007-000090	C RESISTOR	10KΩ 1/16W J	L803	T2901-JC005A	CHIP BEAD	80Ω
R624	2007-000093	C RESISTOR	20KΩ 1/16W J	L804	T2901-JC005A	CHIP BEAD	80Ω
R625	2007-000078	C RESISTOR	1KΩ 1/16W J	L805	T2901-JC005A	CHIP BEAD	80Ω
R629	2007-000074	C RESISTOR	100Ω 1/16W J	L806	T2901-JC005A	CHIP BEAD	80Ω
R630	2007-000093	C RESISTOR	20KΩ 1/16W J				

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
L807	T2901-JC005A	CHIP BEAD		80Ω	CE517	2401-002235	E CAPACITOR	10uF 16V M	
L808	T2901-JC005A	CHIP BEAD		80Ω	CE518	2401-000269	E CAPACITOR	100uF 16V M	
L809	T2901-JC005A	CHIP BEAD		80Ω	CE601	2401-002594	E CAPACITOR	220uF 16V M	
L810	T2901-JC005A	CHIP BEAD		80Ω	CE602	2401-002594	E CAPACITOR	220uF 16V M	
L812	T2901-JC005A	CHIP BEAD		80Ω	CE603	2401-001495	E CAPACITOR	47uF 16V M	
L813	T2901-JC005A	CHIP BEAD		80Ω	CE604	2401-001495	E CAPACITOR	47uF 16V M	
L814	T2703-LC010A	COIL-SMD		100uH	CE605	2401-000603	E CAPACITOR	1uF 50V M	
L815	T2901-JC005A	CHIP BEAD		80Ω	CE606	2401-000242	E CAPACITOR	100uF 10V M	
L816	T2901-JC005A	CHIP BEAD		80Ω	CE607	2401-002235	E CAPACITOR	10uF 16V M	
L820	T2901-JC005A	CHIP BEAD		80Ω	CE608	2401-002235	E CAPACITOR	10uF 16V M	
L821	T2901-JC005A	CHIP BEAD		80Ω	CE609	2401-002235	E CAPACITOR	10uF 16V M	
L822	T2901-JC005A	CHIP BEAD		80Ω	CE610	2401-002235	E CAPACITOR	10uF 16V M	
L823	T2901-JC005A	CHIP BEAD		80Ω	CE611	2401-002235	E CAPACITOR	10uF 16V M	
L830	2007-000078	C RESISTOR		1KΩ 1/16W J	CE612	2401-001495	E CAPACITOR	47uF 16V M	
RN301	T2901-JC010B	BEAD ARRAY		120Ω	CE613	2401-002235	E CAPACITOR	10uF 16V M	
RN302	T2901-JC010B	BEAD ARRAY		120Ω	CE614	2401-002235	E CAPACITOR	10uF 16V M	
RN303	T2901-JC010B	BEAD ARRAY		120Ω	CE617	2401-002235	E CAPACITOR	10uF 16V M	
RN304	T2901-JC010B	BEAD ARRAY		120Ω	CE620	2401-002235	E CAPACITOR	10uF 16V M	
RN305	T2901-JC010B	BEAD ARRAY		120Ω	CE621	2401-002235	E CAPACITOR	10uF 16V M	
RN306	T2901-JC010B	BEAD ARRAY		120Ω	CE622	2401-000603	E CAPACITOR	1uF 50V M	
RN307	T2901-JC010B	BEAD ARRAY		120Ω	CE623	2401-000603	E CAPACITOR	1uF 50V M	
RN308	T2007-HC472J	RC ARRAY		4.7KΩ 1/16W J	CE624	2401-002235	E CAPACITOR	10uF 16V M	
RN309	T2901-JC010B	BEAD ARRAY		120Ω	CE625	2401-000603	E CAPACITOR	1uF 50V M	
RN310	T2007-HC472J	RC ARRAY		4.7KΩ 1/16W J	CE626	2401-000603	E CAPACITOR	1uF 50V M	
RN408	T2901-JC012B	BEAD ARRAY		30Ω	CE627	2401-001495	E CAPACITOR	47uF 16V M	
RN409	T2901-JC012B	BEAD ARRAY		30Ω	CE630	2401-000914	E CAPACITOR	22uF 16V M	
RN410	T2901-JC012B	BEAD ARRAY		30Ω	CE701	2401-000269	E CAPACITOR	100uF 16V M	
RN411	T2901-JC012B	BEAD ARRAY		30Ω	CE703	2401-000269	E CAPACITOR	100uF 16V M	
RN503	T2901-JC012B	BEAD ARRAY		30Ω	CE704	2401-000269	E CAPACITOR	100uF 16V M	
RN505	T2901-JC012B	BEAD ARRAY		30Ω	CE705	2401-000603	E CAPACITOR	1uF 50V M	
RN508	T2901-JC012B	BEAD ARRAY		30Ω	CE801	2401-002594	E CAPACITOR	220uF 16V M	
RN509	T2901-JC012B	BEAD ARRAY		30Ω	CE802	2401-001363	E CAPACITOR	470uF 16V M	
RN510	T2901-JC012B	BEAD ARRAY		30Ω	CE803	T2401-CT4700	E CAPACITOR	47uF 16V M	
RN511	T2901-JC012B	BEAD ARRAY		30Ω	CE804	2401-000269	E CAPACITOR	100uF 16V M	
RN512	T2901-JC012B	BEAD ARRAY		30Ω	CE805	2401-002594	E CAPACITOR	220uF 16V M	
RN513	T2901-JC012B	BEAD ARRAY		30Ω	CE808	T2401-CT2210	E CAPACITOR	220uF 16V M	
RN514	T2901-JC012B	BEAD ARRAY		30Ω	CE809	2401-000302	E CAPACITOR	100uF 25V M	
RN515	T2901-JC012B	BEAD ARRAY		30Ω	CE810	T2401-CT4710	E CAPACITOR	470uF 16V M	
RN516	T2901-JC012B	BEAD ARRAY		30Ω	CE811	2401-002594	E CAPACITOR	220uF 16V M	
RN517	T2901-JC012B	BEAD ARRAY		30Ω	H701	TA40-00014A	TUNER		
RN518	T2901-JC012B	BEAD ARRAY		30Ω	J101	T3711-00037	CONNECTOR		
RN519	T2901-JC012B	BEAD ARRAY		30Ω	J102	AA60-40014A	CONNECTOR		
RN520	T2901-JC012B	BEAD ARRAY		30Ω	J201	T3722-00039A	JACK	PC IN(D-SUB)	
CE101	2401-000269	E CAPACITOR		100uF 16V M	J202	T3722-00040A	JACK	EXT-2	
CE102	T2401-CT4700	E CAPACITOR		47uF 16V M	J203	T3722-00040A	JACK	EXT-1	
CE103	2401-000914	E CAPACITOR		22uF 16V M	J204	T3722-00042A	JACK	EXT-3(S IN)	
CE105	2401-002235	E CAPACITOR		10uF 16V M	J205	T3722-00041A	JACK	EXT-3(VL/R IN)/EXT-4(COMPONENT IN)	
CE106	2401-000603	E CAPACITOR		1uF 50V M	J209	T3711-00034	CONNECTOR		
CE107	2401-000603	E CAPACITOR		1uF 50V M	J210	T3711-00035	CONNECTOR		
CE108	T2401-FT0R1A	E CAPACITOR		0.1uF 50V M	J303	T3711-00033	CONNECTOR		
CE202	2401-002235	E CAPACITOR		10uF 16V M	J304	T3711-00036	CONNECTOR		
CE203	2401-002235	E CAPACITOR		10uF 16V M	J501	T3711-00019	CONNECTOR		
CE204	2401-002235	E CAPACITOR		10uF 16V M	J601	T3711-00029	CONNECTOR		
CE205	2401-002235	E CAPACITOR		10uF 16V M	J602	T3711-00037	CONNECTOR		
CE206	2401-002594	E CAPACITOR		220uF 16V M	J801	T3711-00038	CONNECTOR		
CE207	2401-002594	E CAPACITOR		220uF 16V M	UOTTO	TA62-00007A	HEAT SINK		
CE220	2401-000269	E CAPACITOR		100uF 16V M	M				
CE221	2401-000269	E CAPACITOR		100uF 16V M	X301	T2801-00011A	CRYSTAL	6MHz	
CE301	T2401-BT1010	E CAPACITOR		100uF 10V M	X401	T2801-00012A	CRYSTAL	27MHz	
CE302	2401-000242	E CAPACITOR		100uF 10V M	X501	T2801-00013A	CRYSTAL	14.318MHz	
CE305	2401-002235	E CAPACITOR		10uF 16V M	X601	T2801-00014A	CRYSTAL	18.432MHz	
CE402	2401-000914	E CAPACITOR		22uF 16V M					
CE404	2401-002235	E CAPACITOR		10uF 16V M					
CE405	2401-002235	E CAPACITOR		10uF 16V M					
CE407	2401-002235	E CAPACITOR		10uF 16V M					
CE408	2401-002235	E CAPACITOR		10uF 16V M					
CE410	2401-000603	E CAPACITOR		1uF 50V M					
CE411	2401-002075	E CAPACITOR		4.7uF 50V M					
CE412	2401-002235	E CAPACITOR		10uF 16V M					
CE413	2401-002235	E CAPACITOR		10uF 16V M					
CE414	2401-002075	E CAPACITOR		4.7uF 50V M					
CE415	2401-002235	E CAPACITOR		10uF 16V M					
CE416	2401-002075	E CAPACITOR		4.7uF 50V M					
CE502	T2401-CT2210	E CAPACITOR		220uF 16V M					
CE503	2401-000269	E CAPACITOR		100uF 16V M					
CE504	T2401-CT4700	E CAPACITOR		47uF 16V M					
CE505	2401-001495	E CAPACITOR		47uF 16V M					
CE506	2401-000914	E CAPACITOR		22uF 16V M					
CE507	2401-000914	E CAPACITOR		22uF 16V M					
CE508	2401-001495	E CAPACITOR		47uF 16V M					
CE509	2401-000914	E CAPACITOR		22uF 16V M					
CE510	2401-000914	E CAPACITOR		22uF 16V M					
CE511	2401-000914	E CAPACITOR		22uF 16V M					
CE512	2401-000914	E CAPACITOR		22uF 16V M					
CE513	2401-000914	E CAPACITOR		22uF 16V M					
CE514	2401-000914	E CAPACITOR		22uF 16V M					
CE515	2401-000914	E CAPACITOR		22uF 16V M					
CE516	2401-000914	E CAPACITOR		22uF 16V M					

**POWER P.W. BOARD ASS'Y (QAL0729-001)**

△Ref No.	Part No.	Part Name	Description Local
	FB2	T2901-JC008A	FERRITE BEAD
	FB3	T2901-JC008A	FERRITE BEAD
	FB4	T2901-JC008A	FERRITE BEAD
	FB5	T2901-JC008A	FERRITE BEAD
	FB6	T2901-JC008A	FERRITE BEAD
	FB7	T2901-JC008A	FERRITE BEAD
	FB8	T2901-JC008A	FERRITE BEAD
	FB9	T2901-IC009A	FERRITE BEAD
	Q1	T0507-00009A	TRANSISTOR
	Q2	T0507-00009A	TRANSISTOR
	Q3	T0507-00010A	TRANSISTOR
	Q4	T0501-00006A	POWER MOS FET
	Q5	T0501-00007A	POWER MOS FET
	Q6	T0507-00010A	TRANSISTOR
	Q7	T0501-00010A	TRANSISTOR
	Q8	T0501-00009A	POWER MOS FET
	Q9	T0507-00009A	TRANSISTOR
	Q10	T0507-00009A	TRANSISTOR
	Q11	T0507-00010A	TRANSISTOR
	Q12	T0501-00008A	POWER MOS FET
	Q13	T0507-00010A	TRANSISTOR
	Q14	T0507-00009A	TRANSISTOR
	U1	T1001-00091A	IC
	U2	T1001-00092A	IC
	U3	T1001-00096A	IC
	U4	T1001-00031A	IC
	U5	T1001-00092A	IC
	U6	T1001-00031A	IC
	U7	T1001-00093A	IC
	D1	T0402-00012A	DIODE
	D2	T0402-00014A	DIODE
	D4	T0407-00001A	DIODE
	D5	T0407-00001A	DIODE
	D6	T0402-00013A	DIODE
	D7	T0402-00013A	DIODE
	D8	T0402-00015A	DIODE
	D9	T0402-00016A	DIODE
	D10	T0407-00001A	DIODE
	D11	T0407-00001A	DIODE
	D12	T0402-00013A	DIODE
	D14	T0402-00017A	DIODE
	D15	T0402-00017A	DIODE
	D16	T0407-00001A	DIODE
	D17	T0407-00001A	DIODE
	D18	T0407-00001A	DIODE
	C2	T2306-TB105A	F CAPACITOR 1uF 630V J
	C3	T2203-FC103E	C CAPACITOR 0.01uF 50V K
	C4	T2203-FC101E	C CAPACITOR 0.01uF 50V J
	C5	T2203-DC105E	C CAPACITOR 1uF 16V K
	C6	T2203-DC105E	C CAPACITOR 1uF 16V K
	C7	T2401-ET100O	E CAPACITOR 10uF 35V
	C8	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C9	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C10	T2201-PB103A	C CAPACITOR 0.01uF 1KV Z
	C11	T2401-NB150O	E CAPACITOR 150uF 450V
	C12	T2401-FT220O	E CAPACITOR 22uF 50V
	C13	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C14	T2203-FC102E	C CAPACITOR 1000pF 50V K
	C15	T2203-FC102E	C CAPACITOR 1000pF 50V K
	C16	T2306-TB472A	F CAPACITOR 4700pF 630V K
	C17	T2203-DC474E	C CAPACITOR 0.47uF 25V K
	C18	T2401-ET101O	E CAPACITOR 100uF 35V
	C19	T2201-PB222A	C CAPACITOR 2200pF 1KV K
	C20	T2401-DT471O	E CAPACITOR 470uF 25V
	C22	T2401-DT102O	E CAPACITOR 1000uF 25V
	C23	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C24	T2201-PB102A	C CAPACITOR 1000pF 1KV K
	C25	T2401-BT332O	E CAPACITOR 3300uF 10V
	C26	T2401-BT332O	E CAPACITOR 3300uF 10V
	C27	T2401-BT102O	E CAPACITOR 1000uF 10V
	C28	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C29	T2401-ET101O	E CAPACITOR 100uF 35V
	C30	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C31	T2203-DC474E	C CAPACITOR 0.47uF 25V K
	C32	T2401-FT220O	E CAPACITOR 22uF 50V
	C33	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C34	T2203-FC102E	C CAPACITOR 1000pF 50V K
	C35	T2203-FC102E	C CAPACITOR 1000pF 50V K
	C36	T2203-FC102E	C CAPACITOR 1000pF 50V K
	C37	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C38	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C39	T2306-TB472A	F CAPACITOR 4700pF 630V K
	C40	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C41	T2201-PB102A	C CAPACITOR 1000pF 1KV K
	C42	T2401-ET222O	E CAPACITOR 2200uF 35V

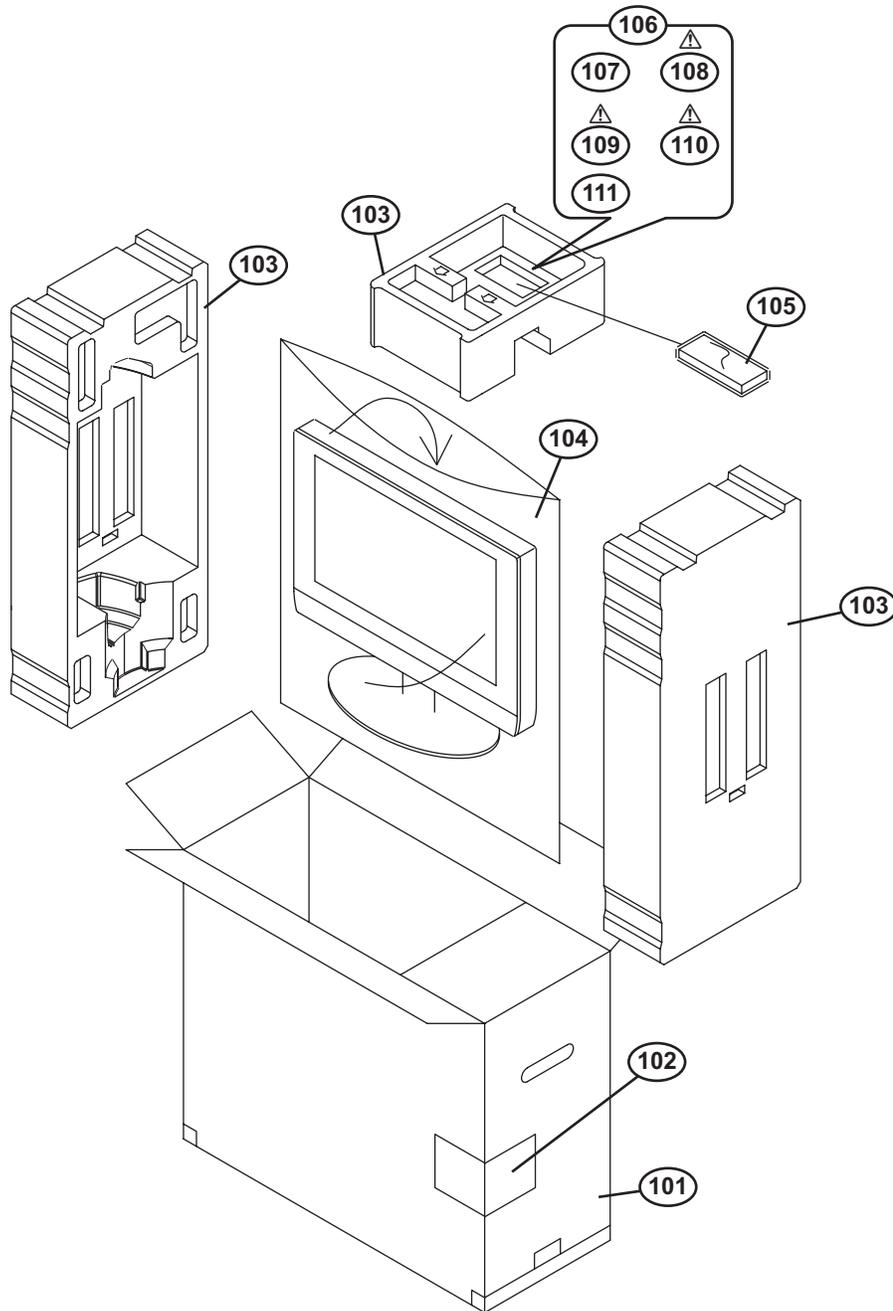
△Ref No.	Part No.	Part Name	Description Local
	C43	T2401-ET222O	E CAPACITOR 2200uF 35V
	C44	T2401-ET122O	E CAPACITOR 1200uF 35V
	C45	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C46	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C47	T2203-DC474E	C CAPACITOR 0.47uF 25V K
	C48	T2203-DC474E	C CAPACITOR 0.47uF 25V K
	C49	T2203-FC104E	C CAPACITOR 0.1uF 50V K
	C50	T2401-ET100O	E CAPACITOR 10uF 35V
	C52	T2201-PB472A	C CAPACITOR 4700pF 1KV K
	C53	T2201-PB472A	C CAPACITOR 4700pF 1KV K
	C21A	T2401-DT471O	E CAPACITOR 470uF 25V
	C21B	T2401-DT471O	E CAPACITOR 470uF 25V
	C27B	T2401-BT102O	E CAPACITOR 1000uF 10V
	CX1	T2306-U 105A	F CAPACITOR 1uF 275V
	CX3	T2306-U 474A	F CAPACITOR 0.47uF 275V
	CX5	T2201-MB102A	C CAPACITOR 1000pF
	CX6	T2201-MB102A	C CAPACITOR 1000pF
	CY1	T2201-MB102A	C CAPACITOR 1000pF
	CY2	2201-000987	C CAPACITOR 2200pF
	R1	T2007-IC364J	C RESISTOR 360KΩ J
	R2	T2007-IC474J	C RESISTOR 470KΩ J
	R3	T2007-IC434J	C RESISTOR 430KΩ J
	R4	T2007-IC564J	C RESISTOR 560KΩ J
	R5	T2007-IC123F	C RESISTOR 12KΩ J
	R6	T2007-IC102J	C RESISTOR 1KΩ F
	R6	T2007-IC273J	C RESISTOR 27KΩ J
	R7	T2007-IC221J	C RESISTOR 220Ω J
	R8	T2007-IC273J	C RESISTOR 27KΩ J
	R9	T2007-IC222J	C RESISTOR 2.2KΩ J
	R10	T2007-IC100J	C RESISTOR 10Ω J
	R11	T2007-JC470J	C RESISTOR 47Ω J
	R12	T2007-IC102J	C RESISTOR 1KΩ J
	R13	T2007-IC304J	C RESISTOR 300KΩ J
	R14	T2007-IC304J	C RESISTOR 300KΩ J
	R15	T2007-IC304J	C RESISTOR 300KΩ J
	R16	T2007-IC304J	C RESISTOR 300KΩ J
	R17	T2007-IC752F	C RESISTOR 7.5KΩ F
	R18	T2007-IC391J	C RESISTOR 390Ω J
	R19	T2007-IC471J	C RESISTOR 470Ω J
	R20	T2007-IC682J	C RESISTOR 6.8KΩ J
	R21	T2007-IC682J	C RESISTOR 6.8KΩ J
	R22	T2007-IC682J	C RESISTOR 6.8KΩ J
	R23	T2007-IC222J	C RESISTOR 2.2KΩ J
	R24	T2007-JC470J	C RESISTOR 47Ω J
	R25	T2007-IC103J	C RESISTOR 10KΩ J
	R26	T2007-IC102J	C RESISTOR 1KΩ J
	R27	T2003-ET823A	MF RESISTOR 82KΩ 3W J
	R28	T2007-IC153J	C RESISTOR 15KΩ J
	R29	T2007-IC222J	C RESISTOR 2.2KΩ J
	R30	T2007-IC153J	C RESISTOR 15KΩ J
	R31	T2007-IC102J	C RESISTOR 1KΩ J
	R32	T2007-IC153J	C RESISTOR 15KΩ J
	R33	T2003-CT4R7R	MF RESISTOR 4.7Ω 1W J
	R34	T2003-ET470A	MF RESISTOR 47Ω 3W J
	R35	T2007-IC103J	C RESISTOR 10KΩ J
	R36	T2007-IC103J	C RESISTOR 10KΩ J
	R37	T2007-IC273J	C RESISTOR 27KΩ J
	R38	T2003-ET220A	MF RESISTOR 22Ω 3W J
	R39	T2007-JC122J	C RESISTOR 1.2KΩ J
	R40	T2007-IC392J	C RESISTOR 3.9KΩ J
	R41	T2007-IC222J	C RESISTOR 2.2KΩ J
	R42	T2007-IC471J	C RESISTOR 470Ω J
	R43	T2007-IC222J	C RESISTOR 2.2KΩ J
	R44	T2007-IC101J	C RESISTOR 100Ω J
	R45	T2007-IC101F	C RESISTOR 100Ω F
	R46	T2007-IC202F	C RESISTOR 2KΩ F
	R47	T2007-IC202F	C RESISTOR 2KΩ F
	R48	T2003-CT1R5R	MF RESISTOR 1.5Ω 1W J
	R49	T2007-IC153J	C RESISTOR 15KΩ J
	R50	T2007-IC103J	C RESISTOR 10KΩ J
	R51	T2007-IC153J	C RESISTOR 15KΩ J
	R52	T2007-IC100J	C RESISTOR 10Ω J
	R53	T2007-JC470J	C RESISTOR 47Ω J
	R54	T2007-IC103J	C RESISTOR 10KΩ J
	R55	T2003-ET224A	MF RESISTOR 220KΩ 3W J
	R56	T2003-ET224A	MF RESISTOR 220KΩ 3W J
	R57	T2007-IC123F	C RESISTOR 12KΩ F
	R58	T2007-IC153J	C RESISTOR 15KΩ J
	R59	T2007-IC103J	C RESISTOR 10KΩ J
	R60	T2003-ET220A	MF RESISTOR 22Ω 3W J
	R61	T2007-IC153J	C RESISTOR 15KΩ J
	R62	T2007-JC122J	C RESISTOR 1.2KΩ J
	R63	T2007-JC122J	C RESISTOR 1.2KΩ J
	R64	T2007-IC222J	C RESISTOR 2.2KΩ J
	R65	T2007-IC101J	C RESISTOR 100Ω J
	R66	T2007-IC153F	C RESISTOR 15KΩ F
	R67	T2007-IC242F	C RESISTOR 2.4KΩ F
	R68	T2007-IC202F	C RESISTOR 2KΩ F

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R69	T2007-IC123F	C RESISTOR	12KΩ	F	ZD9	T0408-00007A	Z DIODE		
R70	T2007-IC152J	C RESISTOR	1.5KΩ	J	ZD10	T0408-00006A	Z DIODE		
R71	T2007-IC181J	C RESISTOR	180Ω	J	<b>KEY BOARD P.W. BOARD ASS'Y (QAL0730-001)</b>				
R72	T2007-IC181J	C RESISTOR	180Ω	J	△Ref No.	Part No.	Part Name	Description	Local
R73	T2007-IC123F	C RESISTOR	12KΩ	F	D201	T0407-00004A	DIODE		
R74	T2007-IC153J	C RESISTOR	15KΩ	J	C246	T2203-FC332D	C CAPACITOR	3300pF	50V K
R75	T2007-IC683J	C RESISTOR	68KΩ	J	C247	T2203-FC332D	C CAPACITOR	3300pF	50V K
R76	T2007-IC222J	C RESISTOR	2.2KΩ	J	R205	2007-000122	C RESISTOR	1.2KΩ	1/16W J
R77	T2007-IC562J	C RESISTOR	5.6KΩ	J	R206	2007-000120	C RESISTOR	680Ω	1/16W J
R78	T2007-JC331J	C RESISTOR	330Ω	J	R207	2007-000124	C RESISTOR	2.2KΩ	1/16W J
R79	T2007-IC562J	C RESISTOR	5.6KΩ	J	R208	2007-000122	C RESISTOR	1.2KΩ	1/16W J
R80	T2007-IC562J	C RESISTOR	5.6KΩ	J	R209	2007-000120	C RESISTOR	680Ω	1/16W J
R81	T2007-IC153J	C RESISTOR	15KΩ	J	R293	2007-000113	C RESISTOR	33Ω	1/16W J
R82	T2007-IC102J	C RESISTOR	1KΩ	J	L226	T2901-AC002A	CHIP BEAD	80Ω	
R83	T2007-IC153J	C RESISTOR	15KΩ	J	L227	T2901-AC002A	CHIP BEAD	80Ω	
R84	T2007-IC562J	C RESISTOR	5.6KΩ	J	L240	T2901-C0004A	CHIP BEAD	500Ω	
R85	T2007-IC102J	C RESISTOR	1KΩ	J	J1	3812-000219	JUMPER		
R87	T2007-IC103J	C RESISTOR	10KΩ	J	J207	T3722-0043A	JACK		
R88	T2007-IC222J	C RESISTOR	2.2KΩ	J	J209	T3711-00035	CONNECTOR		
R89	T2007-IC102J	C RESISTOR	1KΩ	J	S201	T3404-00004A	TACT SWITCH		POWER
R34B	T2003-ET470A	MF RESISTOR	47Ω	3W J	S202	T3404-00004A	TACT SWITCH		TV/AV
RX	T2007-JC564J	C RESISTOR	560KΩ	J	S203	T3404-00004A	TACT SWITCH		MENU/OK
RX1	T2007-JC564J	C RESISTOR	560KΩ	J	S204	T3404-00004A	TACT SWITCH		CH+
RX2	T2007-JC564J	C RESISTOR	560KΩ	J	S205	T3404-00004A	TACT SWITCH		CH-
L1	TV49-00005A	CHOKER BAR	5.5uH		S206	T3404-00004A	TACT SWITCH		VOL+
L3	TV09-00004A	CHOKER BAR	5.0uH		S207	T3404-00004A	TACT SWITCH		VOL-
L4	TA49-00004A	INDUCTOR FILTER	100uH	7A	ZD228	T0408-00002A	Z DIODE		
T1	TV26-26L01A	TRANSFORMER			ZD229	T0408-00002A	Z DIODE		
T2	TV26-26L02A	TRANSFORMER			<b>LED BOARD P.W. BOARD ASS'Y (QAL0731-001)</b>				
T3	TV26-26L03A	TRANSFORMER			△Ref No.	Part No.	Part Name	Description	Local
BD1	T0402-00011A	BRIDGE-DIODE			IR201	TA59-00037A	IR RECEIVER		
CN1	T3711-00039	CONNECTOR			Q201	T0507-00001A	TRANSISTOR		
CN2	T3711-00040	CONNECTOR			Q204	T0507-00001A	TRANSISTOR		
CN3	T3711-00041	CONNECTOR			C237	T2203-FC102D	C CAPACITOR	1000pF	50V K
FU1	3601-000297	FUSE	250V	5A	R201	2007-000084	C RESISTOR	4.7KΩ	1/16W J
FU1	3602-000144	FUSE HOLDER	250V	10A	R202	2007-000078	C RESISTOR	1KΩ	1/16W J
HS1	TA62-00003A	HEAT SINK			R203	2007-000309	C RESISTOR	10Ω	1/16W J
HS2	TA62-00004A	HEAT SINK			R204	2007-000081	C RESISTOR	2.7KΩ	1/16W J
LF1	AB63-00012A	LINE FILTER	15mH	4A	R297	2007-000090	C RESISTOR	10KΩ	1/16W J
LF2	AB63-00012A	LINE FILTER	15mH	4A	R298	2007-000090	C RESISTOR	10KΩ	1/16W J
NT1	T1404-00001A	THERMISTOR			CE201	2401-001495	E CAPACITOR	47uF	16V M
PC1	T1001-00094A	PHOTO COUPLER			J210	T3711-00034	CONNECTOR		
PC2	T1001-00094A	PHOTO COUPLER			J211	T3711-00034	CONNECTOR		
PC3	T1001-00094A	PHOTO COUPLER			LD201	T0601-00002A	LED		POWER
RC1	T2007-JC224J	C RESISTOR	220KΩ	J					
RC2	T2007-JC224J	C RESISTOR	220KΩ	J					
RC3	T2007-JC224J	C RESISTOR	220KΩ	J					
RS1	T2003-ETR15A	R-WIRE	0.15Ω	3W J					
RS2	T2003-ETR62A	R-WIRE	0.62Ω	3W J					
RS3	T2003-ETOR2A	R-WIRE	0.2Ω	3W J					
SC1	T0501-00011A	SCR	0.8A	30V					
VX1	T1405-0011A	VARISTOR							
VX4	T1405-0011A	VARISTOR							
ZD1	T0408-00007A	Z DIODE							
ZD2	T0408-00006A	Z DIODE							
ZD3	T0408-00008A	Z DIODE							
ZD4	T0408-00007A	Z DIODE							
ZD5	T0408-00005A	Z DIODE							
ZD6	T0408-00005A	Z DIODE							
ZD7	T0408-00005A	Z DIODE							
ZD8	T0408-00008A	Z DIODE							

## REMOTE CONTROL UNIT PARTS LIST (RM-C1816S-1C)

△ Ref.No.	Part No.	Part Name	Description	Local
	2AA070311	BATTERY COVER		

# PACKING



## PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
101	GA10002-056A-U	PACKING CASE		
102	GA10001-057A-U	EURO LABEL		LT-26A60BU
102	GA10001-058A-U	EURO LABEL		LT-26A60SJ
102	GA10001-056A-U	EURO LABEL		LT-26A60SU
103	GA10046-001A-U	CUSHION ASSY	3pcs in 1set	
104	GA10026-001A-U	POLY BAG		
105	RM-C1816S-1C	REMOCON UNIT		
106	GA30007-001A-U	DOCUMENT BAGS	(x2)	LT-26A60BU
106	AEM3021-003B-E	DOCUMENT BAGS	(x2)	LT-26A60SJ,LT-26A60SU
107	-----	WARRANTY CARD	BT-54026-1E	
△ 108	LCT1863-001A-U	INST BOOK	English	LT-26A60SJ
△ 108	LCT1860-001A-U	INST BOOK	English/German/French/Dutch/Spanish/Italian/Portuguese	LT-26A60BU,LT-26A60SU
△ 109	LCT1861-001A-U	INST BOOK	Norwegian/Finn/Danish/Swedish	LT-26A60BU,LT-26A60SU
△ 110	LCT1862-001A-U	INST BOOK	Russian/Romanian/Czech/Polish/Hungarian/Bulgarian	LT-26A60SU
111	-----	BATTERY	R6P/AA(x2)	

# JVC

Preliminary

## SCHEMATIC DIAGRAMS

WIDE LCD PANEL TELEVISION

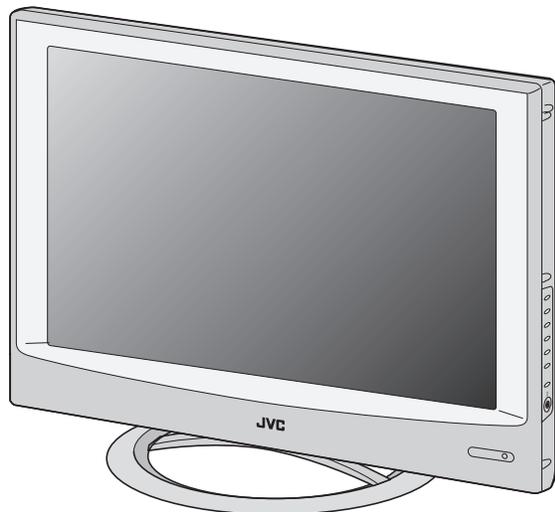
### LT-26A60BU, LT-26A60SJ, LT-26A60SU

CD-ROM No.SML200506

BASIC CHASSIS

FT

InterArt  
**T-V LINK**



# LT-26A60BU, LT-26A60SJ, LT-26A60SU

## STANDARD CIRCUIT DIAGRAM

### NOTE ON USING CIRCUIT DIAGRAMS

#### 1.SAFETY

The components identified by the  $\triangle$  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k $\Omega$ /V
- (4)Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ s / div  
: V  $\Rightarrow$  5ms / div  
: Others  $\Rightarrow$  Sweeping time is specified
- (5)Voltage values : All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209  $\rightarrow$  R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

##### (1)Resistors

###### ● Resistance value

- No unit : [ $\Omega$ ]
- K : [k $\Omega$ ]
- M : [M $\Omega$ ]

###### ● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

###### ● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammable resistor
- FR : Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

##### (2)Capacitors

###### ● Capacitance value

- 1 or higher : [pF]
- less than 1 : [ $\mu$ F]

###### ● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [ $\mu$ F]/withstand voltage[V]

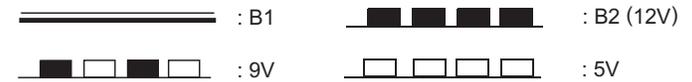
###### ● Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

##### (3)Coils

- No unit : [ $\mu$ H]
- Others : As specified

##### (4)Power Supply

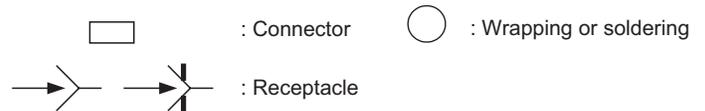


\* Respective voltage values are indicated

##### (5)Test point



##### (6)Connecting method



##### (7)Ground symbol

- $\perp$  : LIVE side ground
- $\perp$  with a horizontal line through the stem : ISOLATED(NEUTRAL) side ground
- $\perp$  with a horizontal line through the stem and a vertical line below : EARTH ground
- $\nabla$  : DIGITAL ground

#### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE ( $\perp$ ) side GND and the ISOLATED(NEUTRAL) ( $\perp$ ) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

##### NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

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## USING P.W. BOARD

P.W.B ASS'Y name	LT-26A60BU	LT-26A60SJ	LT-26A60SU
MAIN P.W BOARD	QAL0728-001	←	←
POWER P.W BOARD	QAL0729-001	←	←
KEY BOARD P.W BOARD	QAL0730-001	←	←
LED BOARD SW P.W BOARD	QAL0731-001	←	←

## SEMICONDUCTOR SHAPES

### TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

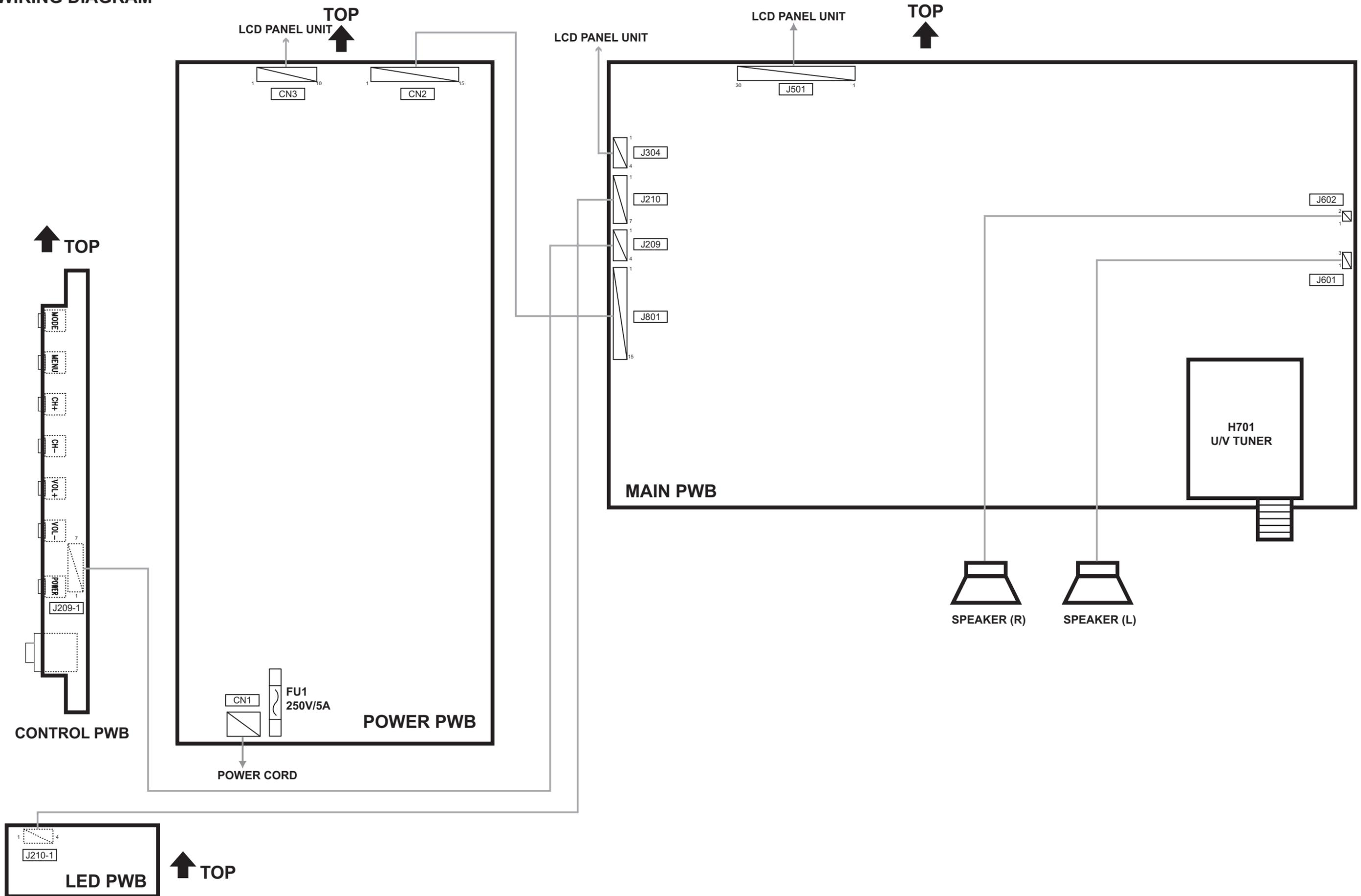
### IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

### CHIP IC

TOP VIEW		

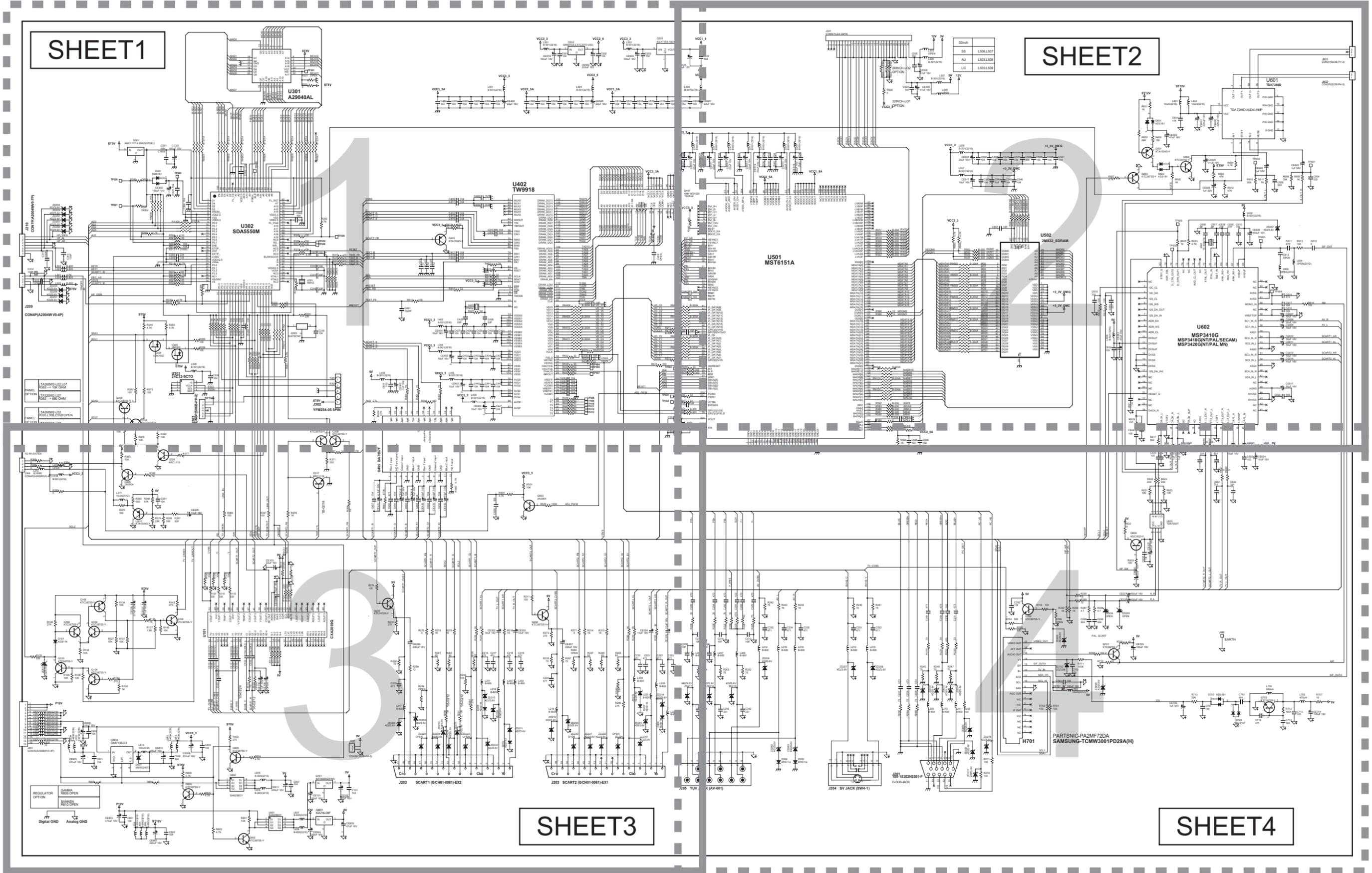
**WIRING DIAGRAM**





# CIRCUIT DIAGRAMS

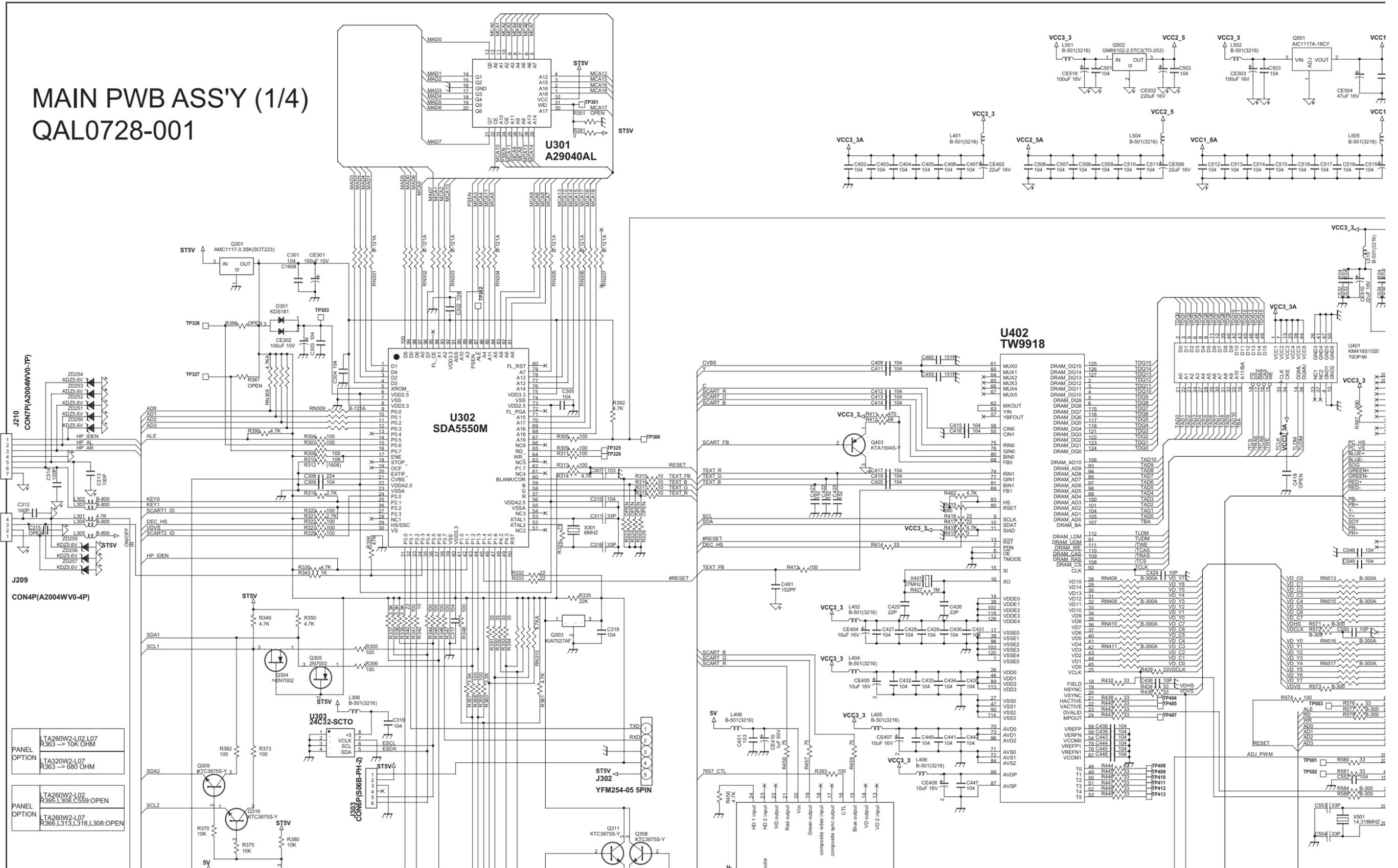
## MAIN PWB CIRCUIT DIAGRAM [WHOLE CHART]



Note: Please refer to SHEET1-4 for details of this circuit diagram.

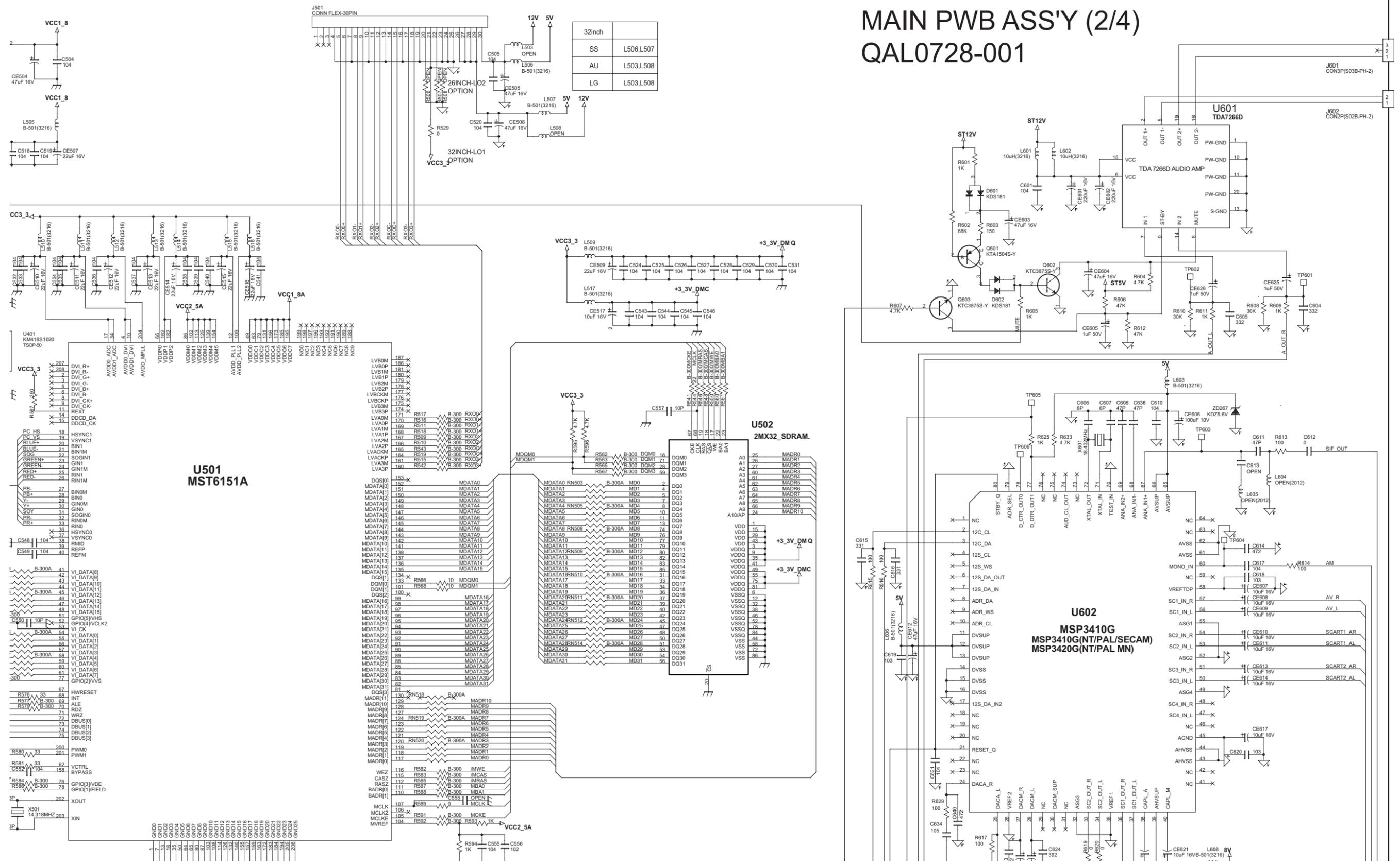


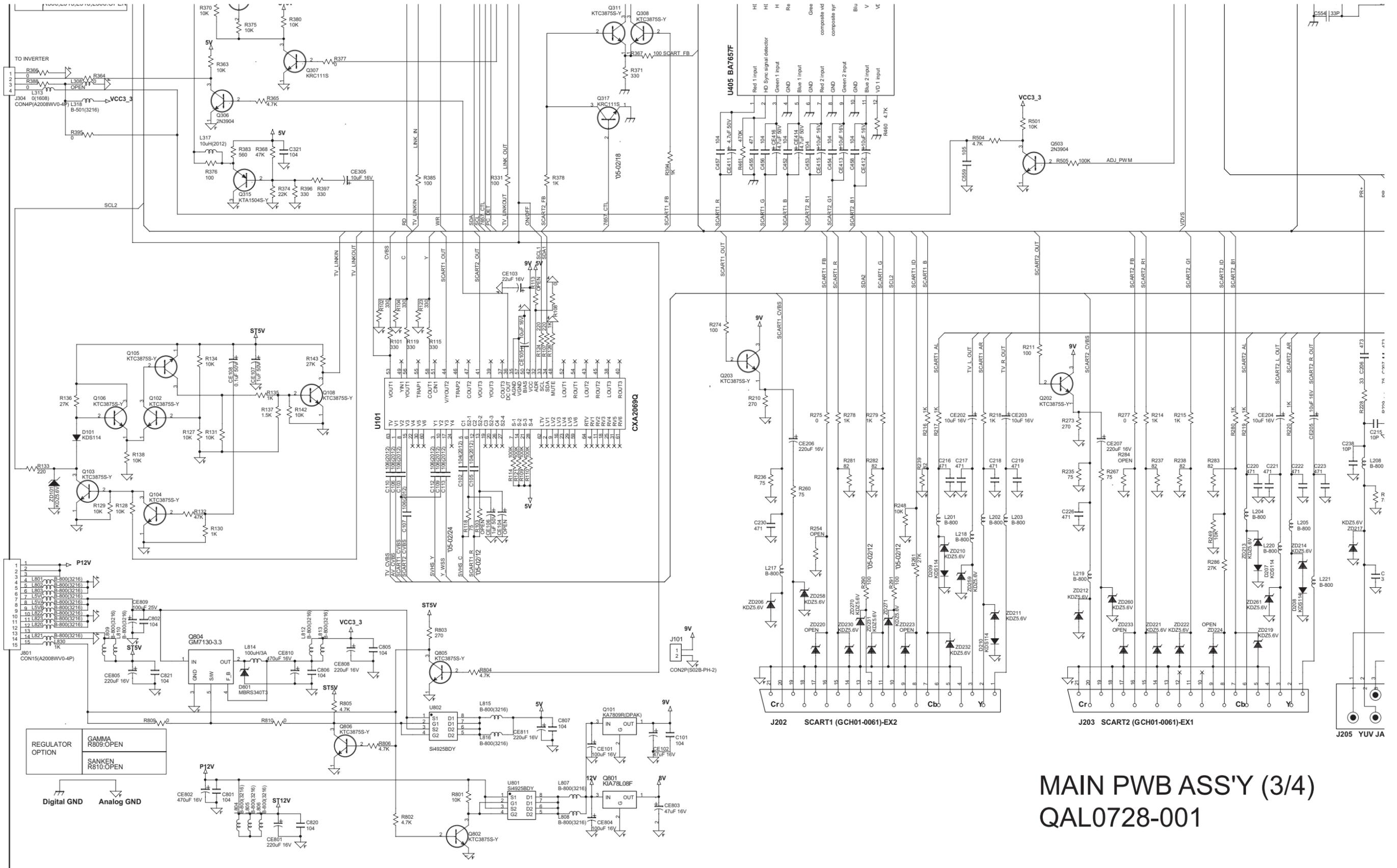
# MAIN PWB ASS'Y (1/4) QAL0728-001



PANEL OPTION	LTA260W2-L02 R363 -> 10K OHM
PANEL OPTION	LTA320W2-L07 R363 -> 680 OHM
PANEL OPTION	LTA260W2-L02 R395, L308, C559: OPEN
PANEL OPTION	LTA260W2-L07 R366, L313, L318, L308: OPEN

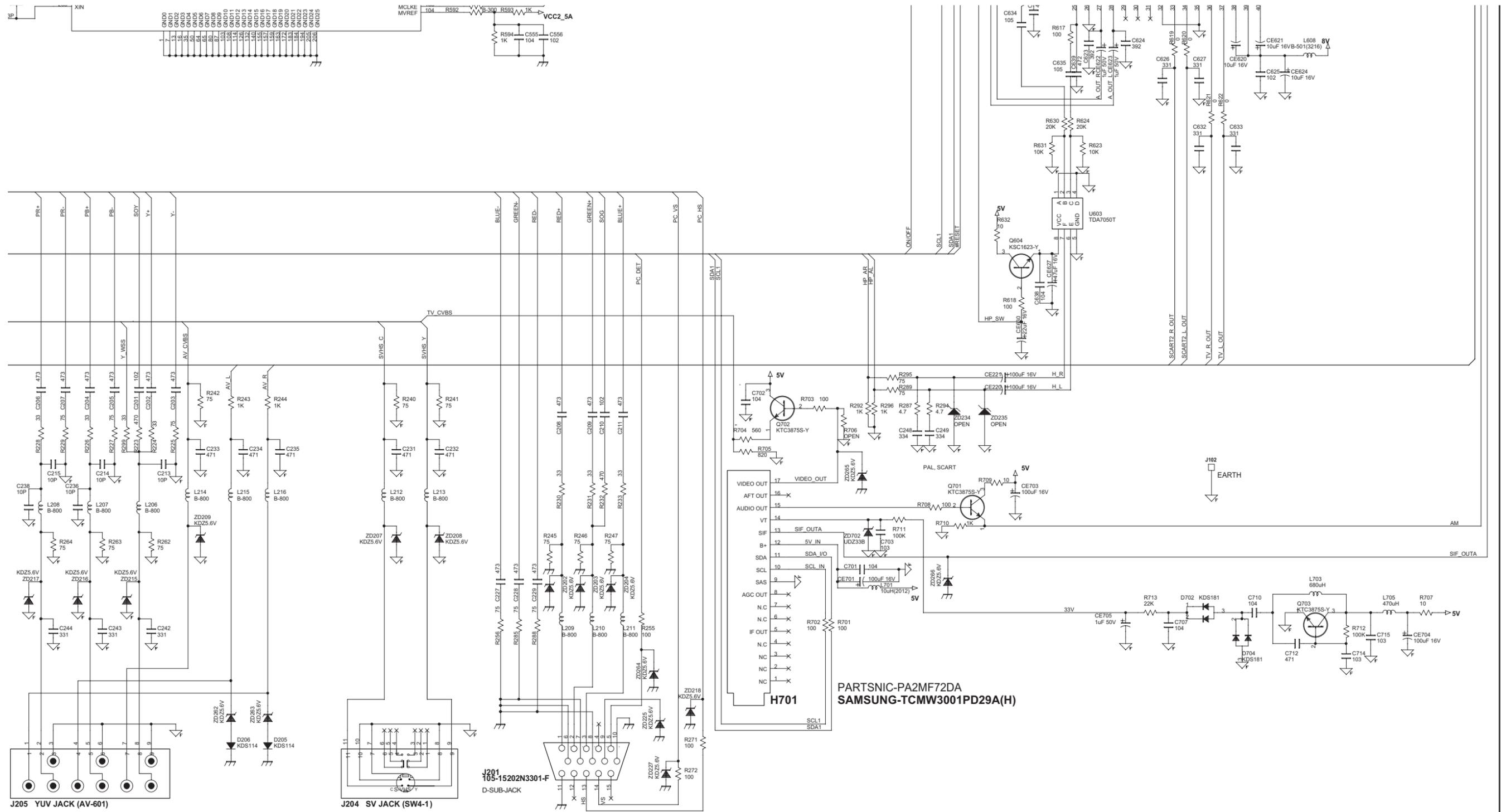
# MAIN PWB ASS'Y (2/4) QAL0728-001



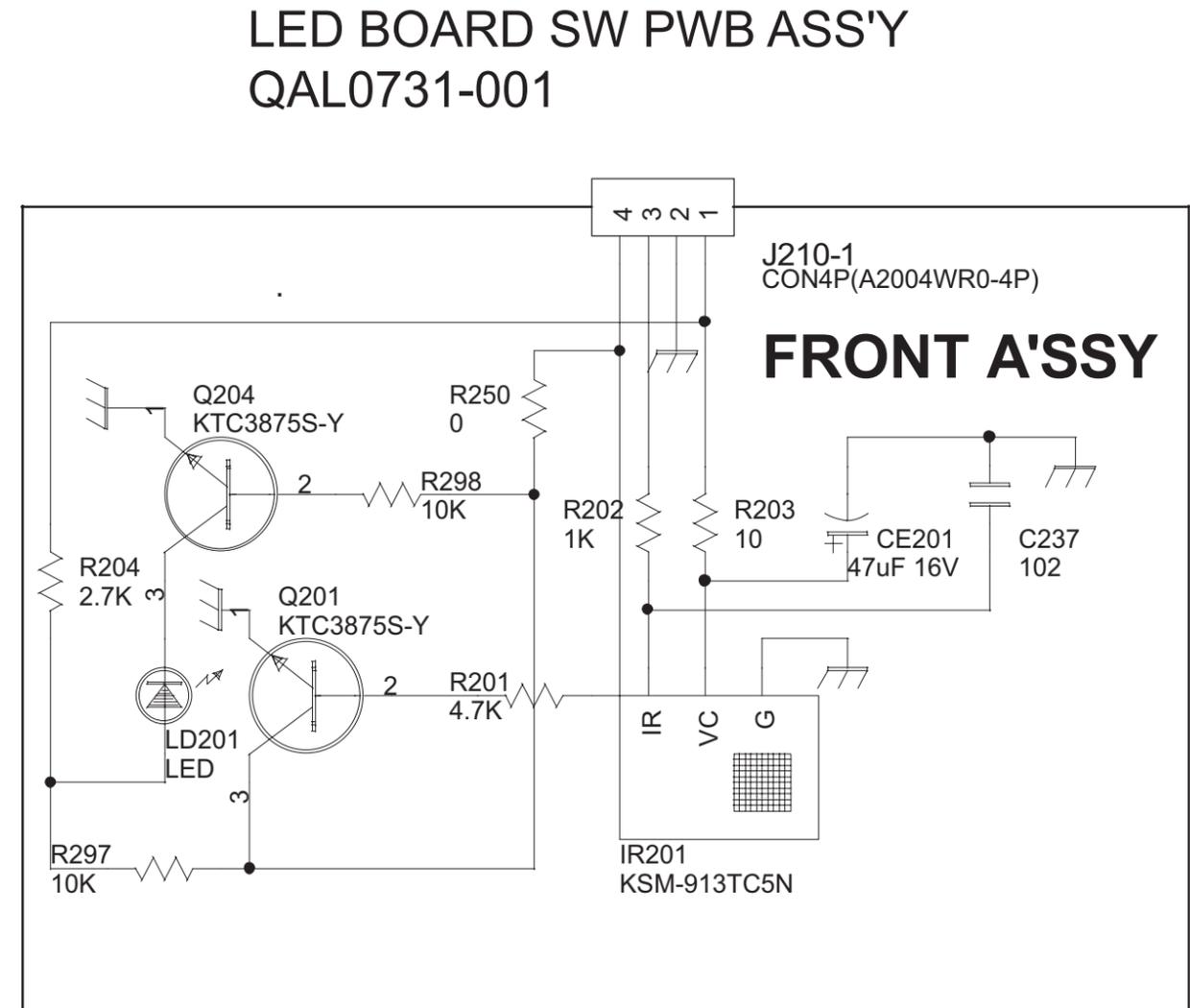
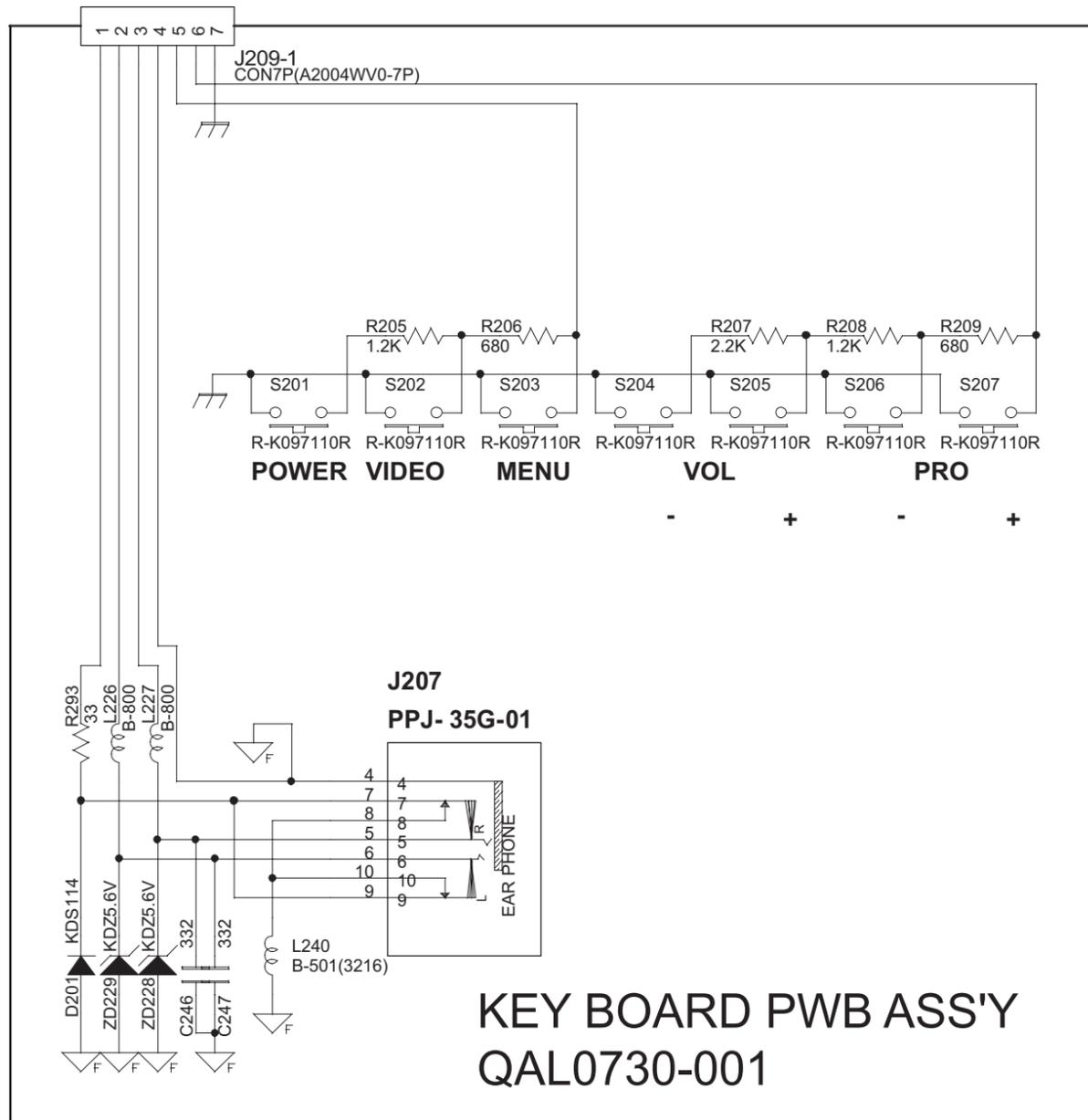


MAIN PWB ASS'Y (3/4)  
QAL0728-001

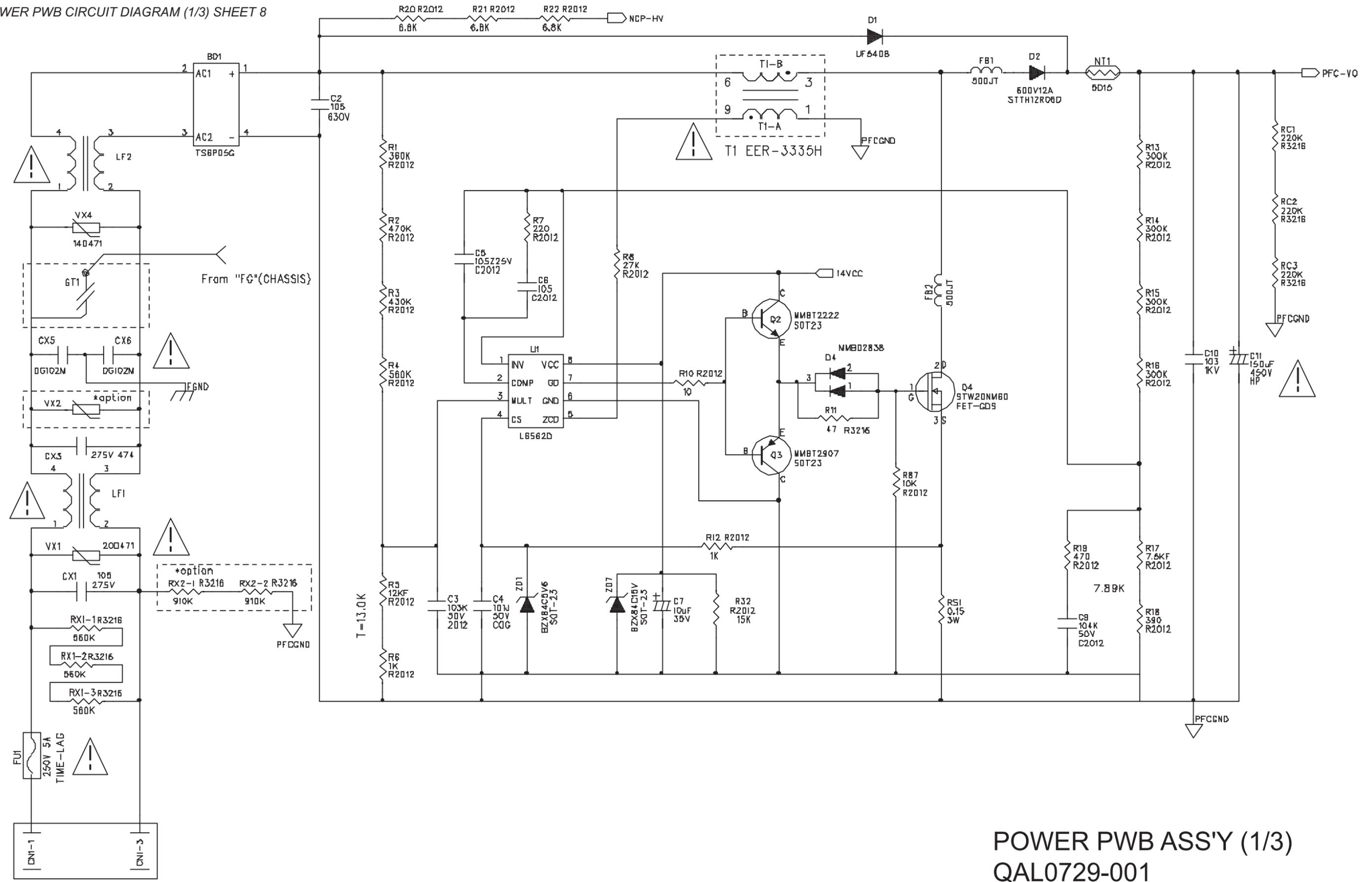
MAIN PWB CIRCUIT DIAGRAM (4/4) SHEET4



MAIN PWB ASS'Y (4/4)  
QAL0728-001

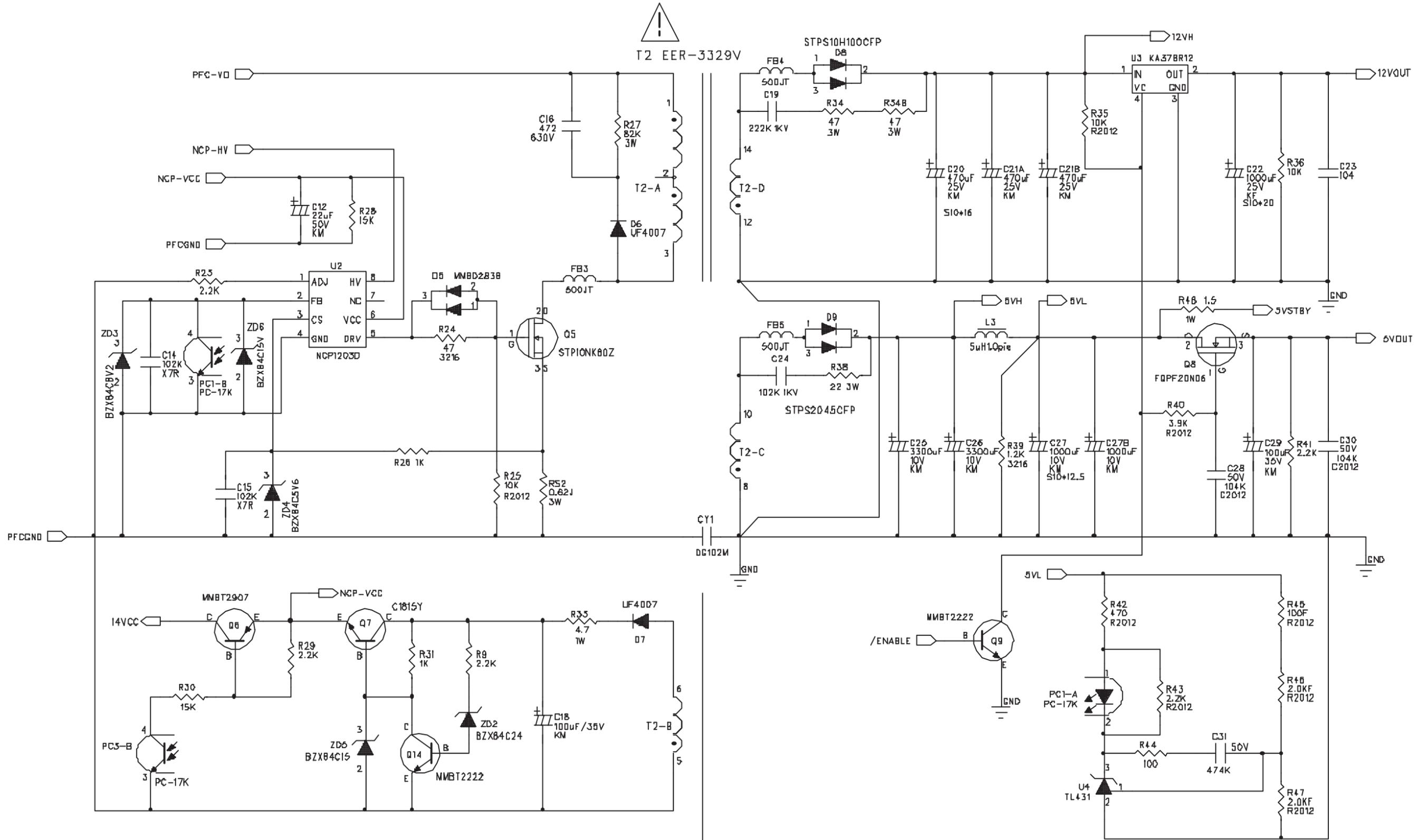


LED OPTION	STAND BY LED OFF R250:OPEN
	STAND BY LED ON R297,Q201,R201:OPEN R298:4.7K OHM

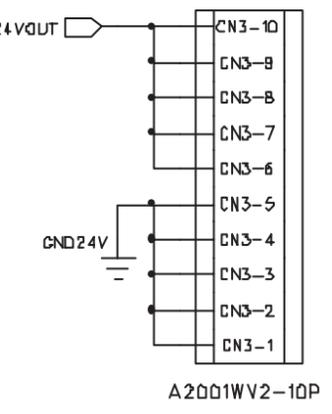
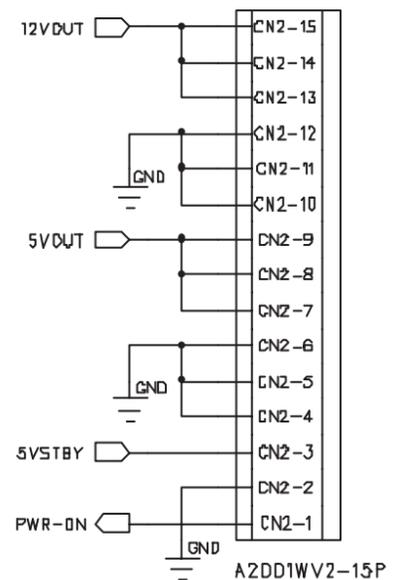
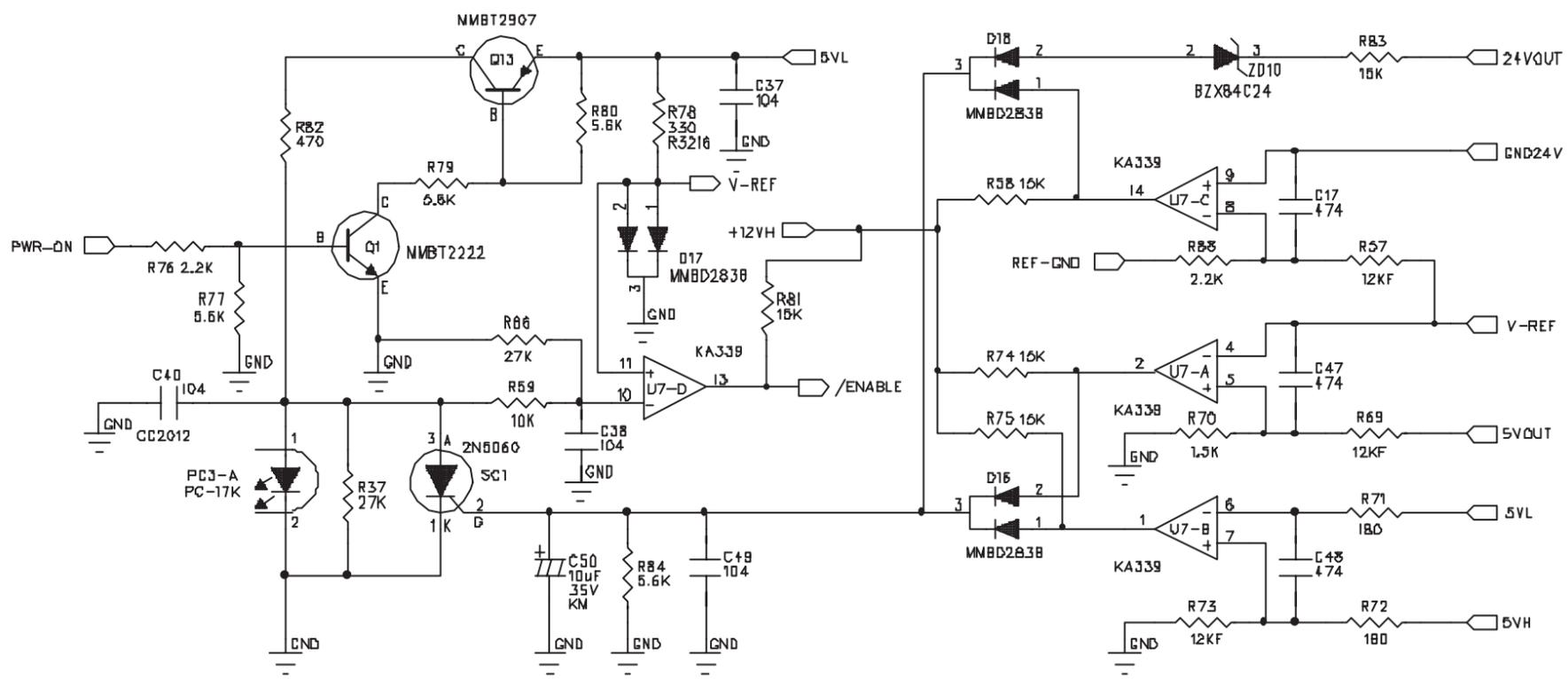
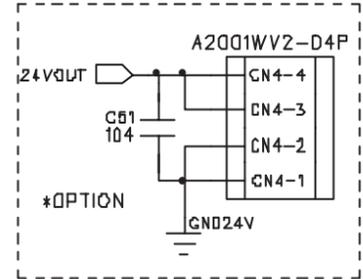
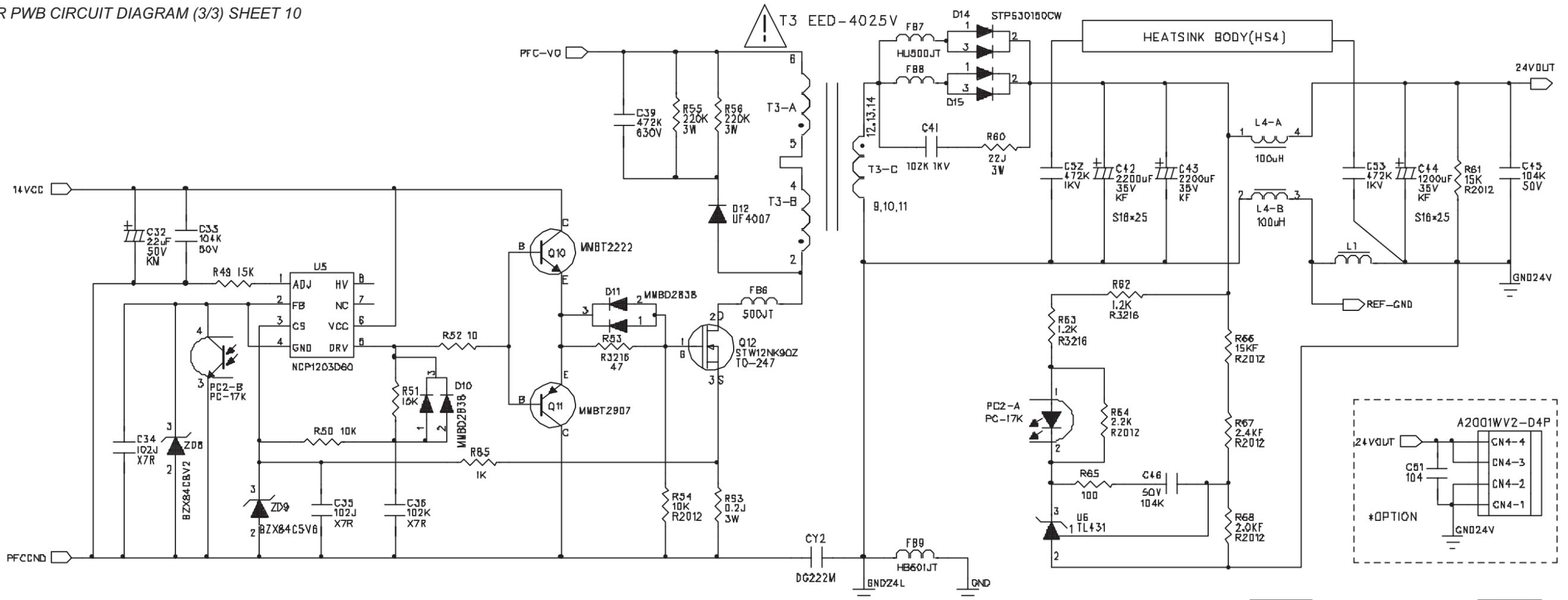


AC110~240V (50~60Hz)  
JWT:A3963WV2-03P

POWER PWB ASS'Y (1/3)  
QAL0729-001

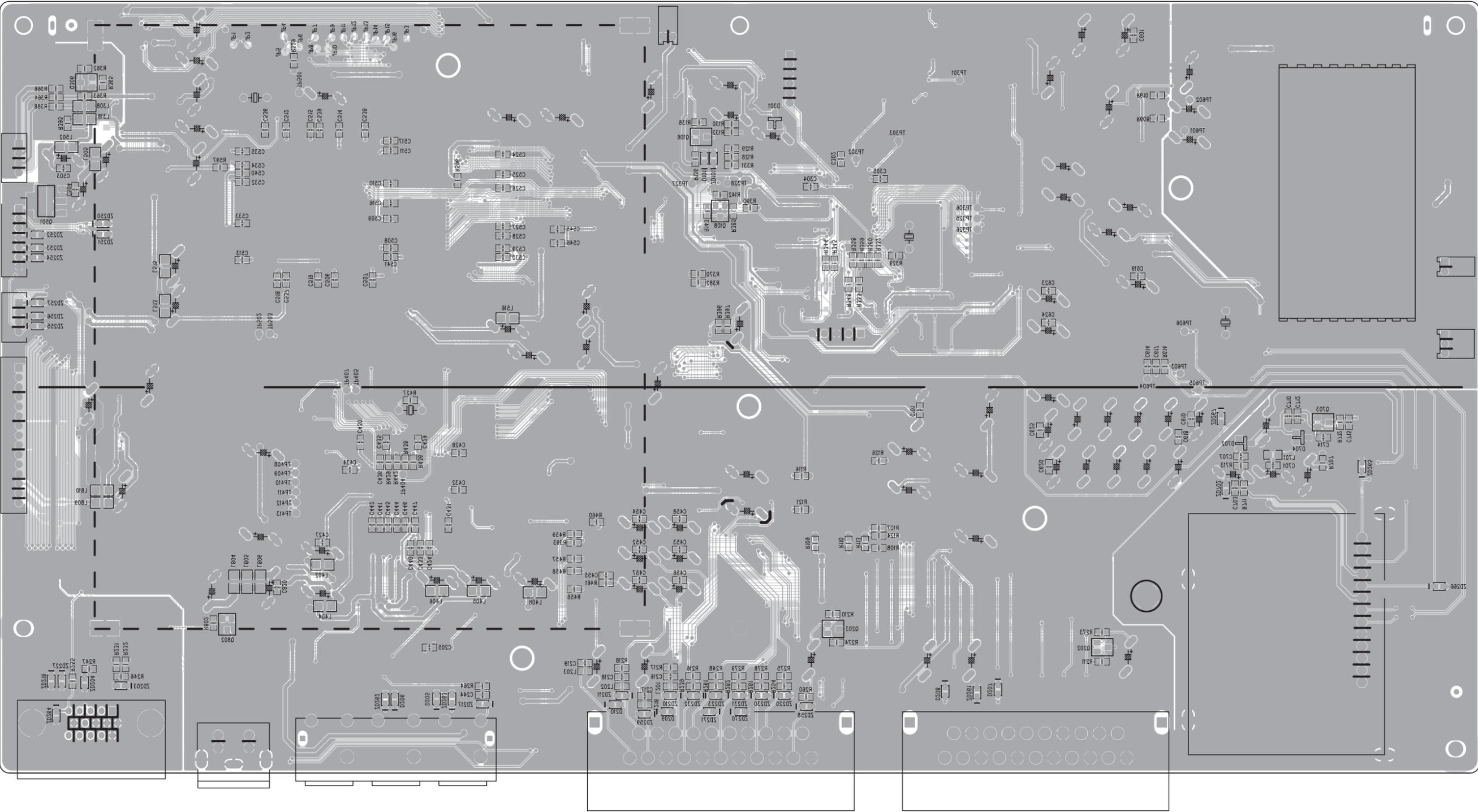


POWER PWB ASS'Y (2/3)  
QAL0729-001

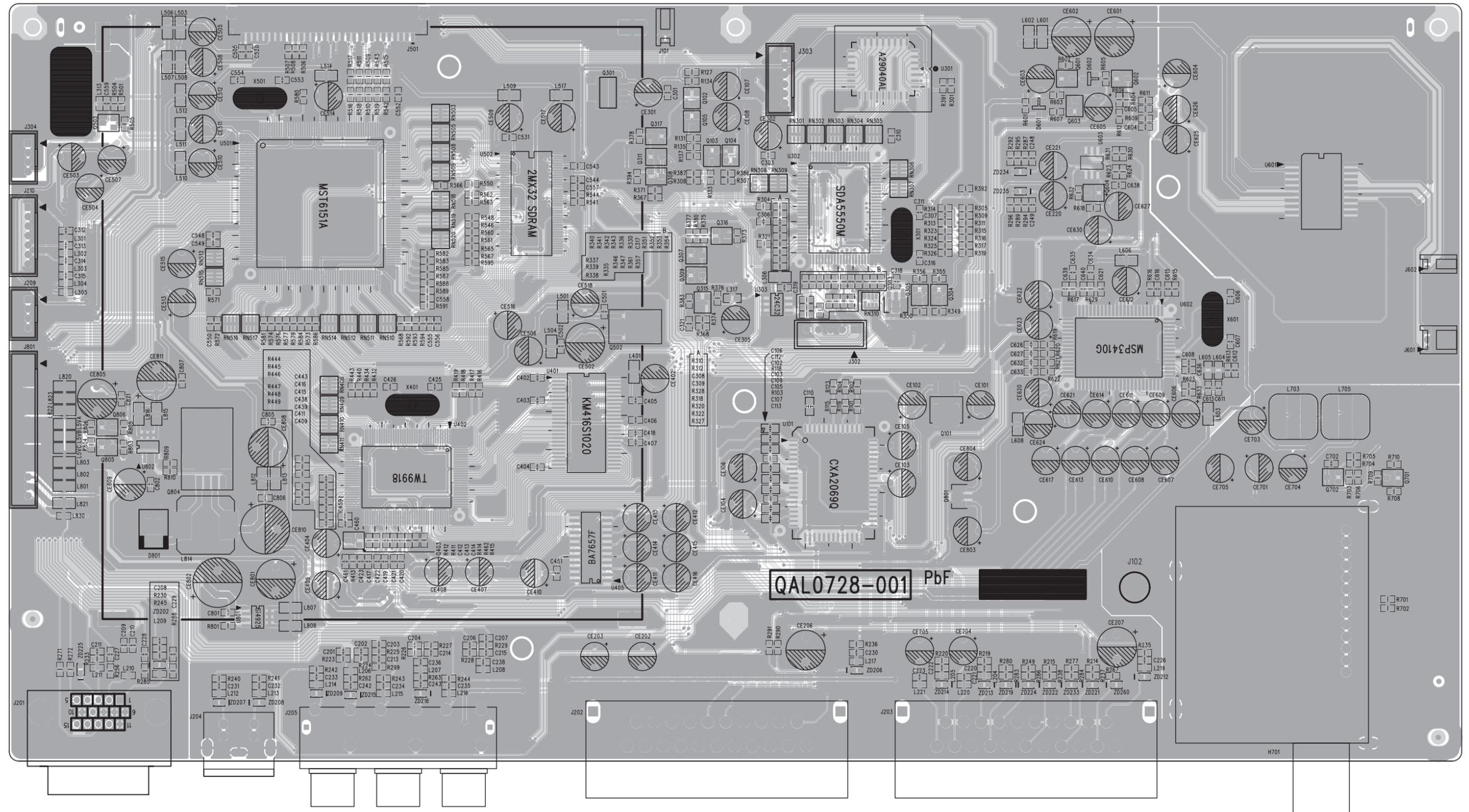


POWER PWB ASS'Y (3/3)  
QAL0729-001

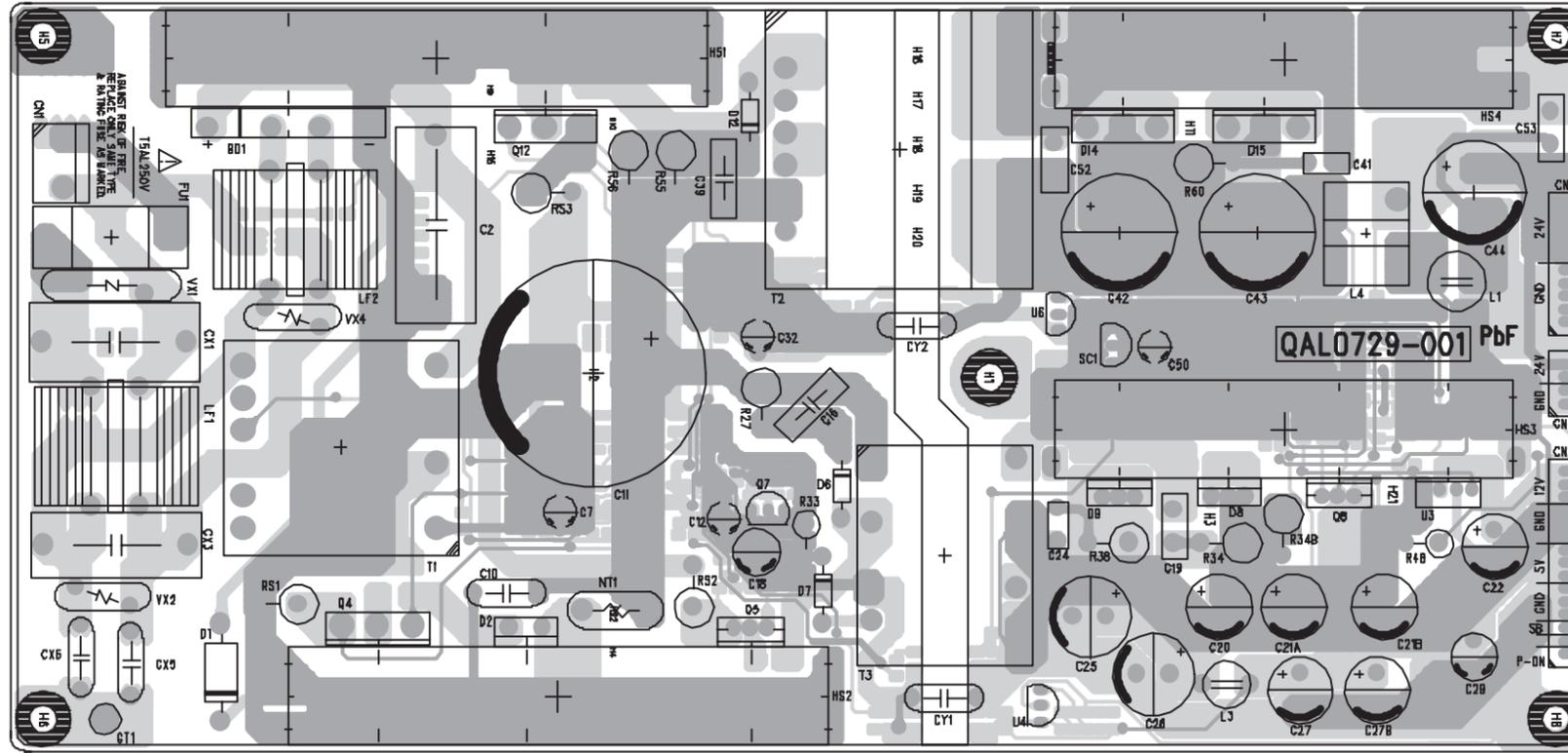
**PATTERN DIAGRAMS**  
MAIN PWB PATTERN [SOLDER SIDE]



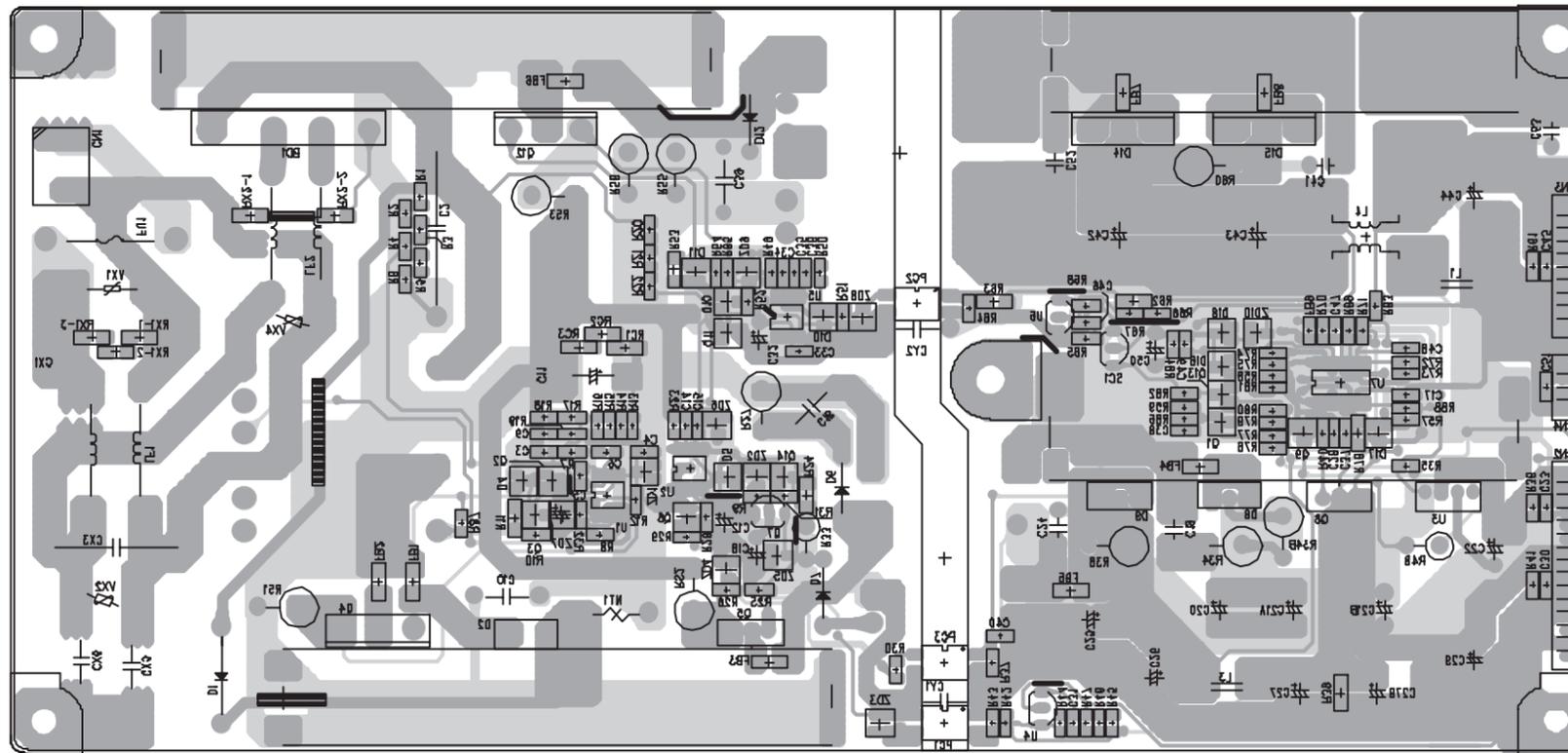
MAIN PWB PATTERN [PARTS SIDE]



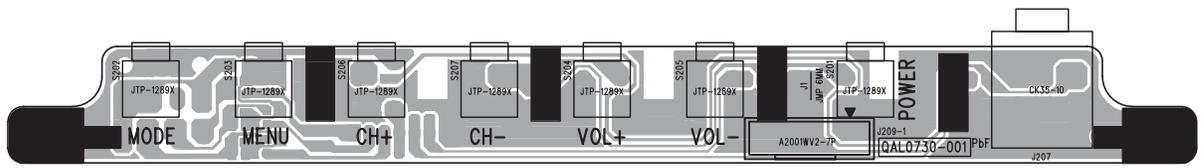
POWER PWB PATTERN [SOLDER SIDE]



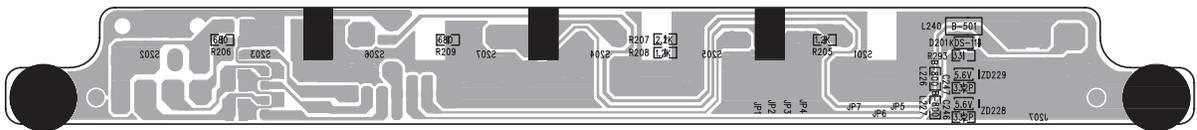
POWER PWB PATTERN [PARTS SIDE]



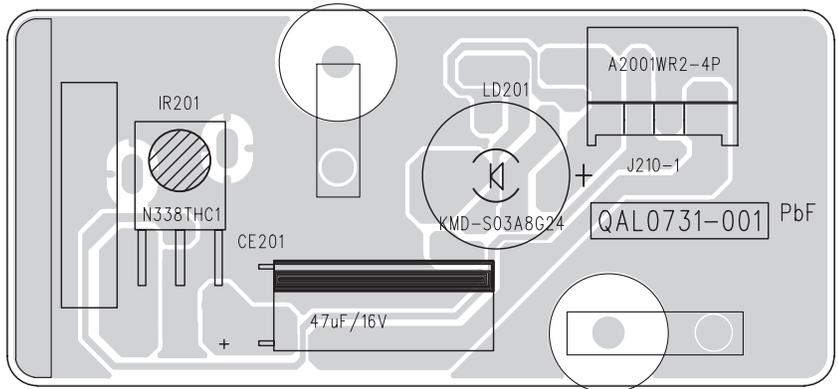
KEY BOARD PWB PATTERN [SOLDER SIDE]



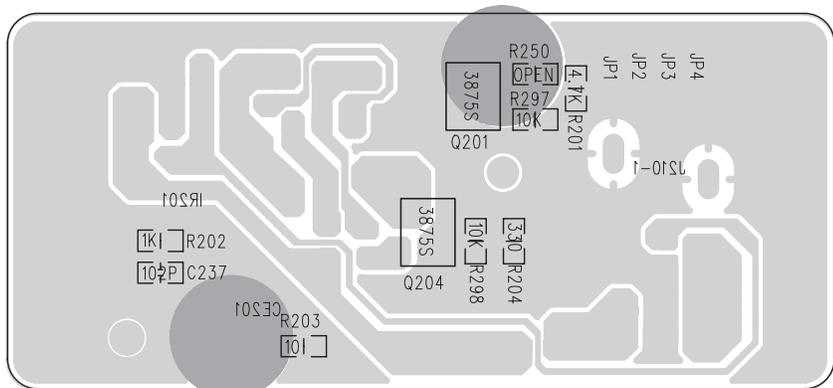
KEY BOARD PWB PATTERN [PARTS SIDE]



LED BOARD SW PWB PATTERN [SOLDER SIDE]



LED BOARD SW PWB PATTERN [PARTS SIDE]







**JVC**

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(No.YA314)