LG PDP42V6

General Information

PDP Module

SAFETY PRECAUTIONS

POP Module is a display device to be divided into a Panel part and a Drive part. The Panel part consists of Electrodes, Phosphor, various dielectrics and gas, and the Drive part includes electronic circuitry and PCB. When using/handling this PDP Module, pay attention to the below warning and cautions.

A Warning

Indicates a hazard that may lead to death or injury if the warning is ignored and the product is handled incorrectly.

∧ Caution

Indicates a hazard that can lead to injury or damage to property if the caution is ignored and the product is handled incorrectly.

- 1. Do not supply a voltage higher than that specified to this product. This may damage the product and may cause a fire.
- 2. Do not use this product in locations where the humidity is extremely high, where it may be splashed with water, or where flammable materials surround it. Do not install or use the product in a location that does no satisfy the specified environmental conditions. This may damage the product and may cause a
- 3. If a foreign substance (such as water, metal, or liquid) gets inside the product, immediately turn off the power. Continuing to use the product, it is may cause fire or electric shock.
- 4. If the product emits smoke, and abnormal smell, or makes an abnormal sound, immediately turn off the power. Continuing to use the product, it may cause fire or electric shock
- 5. Do not disconnect or connect the connector while power to the product is on. It takes some time for the voltage to drop to a sufficiently low level after the power has been turned off. Confirm that the voltage has dropped to a safe level before disconnecting or connecting the connector.
- 6. Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.
- 7. Do not damage or modify the power cable. It may cause fire or electric shock.
- 8. If the power cable is damaged, or if the connector is loose, do not use the product: otherwise, this can lead to fire or electric shock
- 9. If the power connector or the connector of the power cable becomes dirty or dusty, wipe it with a dry cloth. Otherwise, this can lead to fire.
- 10. PDP Module uses a high voltage (Max.450V dc). Keep the cautions concerning electric shock and do not touch the Device circuitry when handling the POP Unit. And because the capacitor of the Device circuitry may remain charged at the

moment of Power OFF, standing by for 1 minute is required in order to touch the Device circuitry

- $\overline{1)}$ Do not place this product in a location that is subject to heavy vibration, or on an unstable surface such as an inclined surface. The product may fall off or fall over, causing injuries.
- 2.Before disconnecting cable from the product, be sure to turn off the power. Be sure to hold the connector when disconnecting cables. Pulling a cable with excessive force may cause the core of the cable to be exposed or break the cable. and this can lead to fire or electric shock.
- 3. This product should be moved by two or more persons. If one person attempts to carry this product alone, he/she may be injured.
- 4. This product contains glass. The glass may break, causing injuries, if shock, vibration, heat, or distortion is applied to the product.
- 5. The temperature of the glass of the display may rise to 80°C or more depending on the conditions of use. If you touch the glass inadvertently, you may be burned.
- 6.If glass surface of the display breaks or is scratched, do not touch the broken pieces or the scratches with bare hands. You may be injured.
- 7.PDP Module requires to be handled with care not to be touched with metal or hard materials. and must not be stressed by heat or mechanical impact.
- 8. There are some exposed components on the rear panel of this product. Touching these components may cause an electric shock.
- 9.When moving the product, be sure to turn off the power and disconnect all the cables. While moving the product, watch your step. The product may be dropped or all, leading to injuries of electric shock.
- 10.In order to protect static electricity due to C-MOS circuitry of the Drive part, wear a wrist band to protect static electricity when handling.
- 11.If cleaning the Panel, wipe it with a soft cloth moistened with water or a neutral detergent and squeezed, being careful not to touch the connector part of the Panel. And don't use chemical materials like thinner or henzene
- 12.If this product is used as a display board to display a static image, "image sticking" occurs. This means that the luminance of areas of the display that remain lit for a long time drops compared with luminance of areas that are lit for a shorter time, causing uneven luminance across the display.
- The degree to which this occurs is in proportion to the luminance at which the display is used. To prevent this phenomenon, therefore, avoid static images as much as possible and design your system so that it is used at a low luminance, by reducing signal level difference between bright area and less bright area through signal processing.

13.Because PDP Module emits heat from the Glass Panel part and the Drive circuitry, the environmental temperature must not be over 40°C. The temperature of the Glass Panel part is especially high owing to heat from internal Drive circuitry. And because the PDP Module is driven by high voltage, it must avoid conductive materials

- 14.If inserting components or circuit board in order to repair, be sure to fix a lead line to the connector before soldering.
- 15.If inserting high-power resistor (metal-oxide film resistor or metal film resistor) in order to repair, insert it as 10mm away as from a board.
- 16.During repairs, high voltage or high temperature components must be put away from a lead line
- 17. This is a Cold Chassis but you had better use a cold transformer for safety during repairs. If repairing electricity source part, you must use the cold transformer.
- 18.Do not place an object on the glass surface of the display. The glass may break or be scratched
- 19. This product may be damaged if it is subject to excessive stresses (such as excessive voltage, current, or temperature). The absolute maximum ratings specify the limits of these stresses
- 20.The recommended operating conditions are conditions in which the normal operation of this product is guaranteed. All the rated values of the electrical specifications are guaranteed within these conditions. Always use the product within the range of the recommended operating conditions. Otherwise, the reliability of the product may be degraded.
- 21. This product has a glass display surface. Design your system so that excessive shock and load are not applied to the glass. Exercise care that the vent at the corner of the glass panel is not damaged.
- If the glass panel or vent is damaged, the product is inoperable.
- 22.Do not cover or wrap the product with a cloth or other covering while power is supplied to the product.
- 23.Before turning on power to the product, check the wiring of the product and confirm that the supply voltage is within the rated voltage range. If the wiring is wrong or if a voltage outside the rated range is applied, the product may malfunction or be damaged.
- 24.Do not store this product in a location where temperature and humidity are high. This may cause the product to malfunction. Because this product uses a discharge phenomenon, it may take time to light (operation may be delayed) when the product is used after it has been stored for a long time. In this case, it is recommended to light all cells for about 2 hours (aging).
- 25. This product is made from various materials such as glass, metal, and plastic. When discarding it, be sure to contact a professional waste disposal operator.
- 26.If faults occur due to arbitrary modification or disassembly, LG Electronics is not responsible for function, qualify or other items.
- 27.Use of the product with a combination of parameters, conditions, or logic not specified in | 3-2 Adjustment after assembling

the specifications of this product is not guaranteed. If intending to use the product in such a way, be sure to consult LGE in advance.

28.Within the warranty period, general faults that occur due to defects in components such as ICs will be rectified by LGE without charge. However, IMAGE STICKING due to misapplying the above (12) provision is not included in the warranty. Repairs due to the other faults may be charged for depending on responsibility for the faults.

Adjustment

1. Application Object

This standard is applied to the PDP42V6#### PDP Module which is manufactured by the manufacturing team of PDP promotion department or elsewhere.

2. Notes

- 1) Without any special specification, the Module should be at the condition of preliminaries more than 10 minutes before adjusting.
- Service signal: 100% Full White signal
- Service DC voltage: Vcc: 5V, Va: 65V, Vs: 185V
- DC/DC Pack voltage : Vsetup: 200V, Vscw: 11 5V.

- Vy: -75V

- Preliminaries environment : Temp (25±5°C), Relative humidity (65±10%)
- 2) Module should get the Aging for the equilibrium after finishing the assembling. Aging condition is shown below
- Service signal: 100% Full White, Red, Green, Blue pattern signal (Service time of each pattern : within 5 minutes / cycle)
- Service DC voltage : Match the voltage with the set up voltage in the first adjustment. Aging time : More than 4Hrs
- Aging environment : Temp (60±2°C), Relative humidity-Less than 75%
- 3) Module adjustment should be followed by below sequence.
- Setting up the initial voltage and adjusting the voltage wave form of Vsetup
- Measuring the Margin of Vs voltage and deciding the voltage
- Adjusting and checking the voltage of DC/DC pack (Vsetup, Vscw, -Vy)
- Adjusting the voltage wave form of Vset-down Measuring the Margin of Vset-up voltage and
- deciding the voltage Adjusting the wave form of final voltage

But, these items above can be changed by the consideration of mass production. (When changing the sequence, there should be an agreement of the Module development 2Gr./ QA Gr./ Manufacturing Gr.)

4) Without any special specification, you should adjust the Module in the environment of Temp (25±5°C) and Relative humidity (65±10%)

∧ Caution

If you let the still image more than 10 minutes (especially The Digital pattern or Cross Hatch Pattern which has clear gradation), after image can be presented in the black level part of screen.

3. Adjustment items

- 3-1. Adjusting the Board Group
- 1) Adjusting the voltage wave form of Vset-up
- 2) Adjusting the voltage wave form of Vset-down
- 3) Adjusting the voltage wave form of Vramp

External Cable Connection NO Con 1 P1IZ S P5[YS 2

3

4

NO	Part No.		Description
1	6871QCH034A	PWB(PCB) ASSY	LVDS CTRL B/D ASSY
2	6871QDH066A	PWB(PCB) ASSY	Y DRV UPPER B/D ASSY
3	6871QDH067A	PWB(PCB) ASSY	Y DRV LOWER B/D ASSY
4	6871QRH037A	PWB(PCB) ASSY	X RIGHT B/D ASSY
5	6871QLH034A	PWB(PCB) ASSY	X LEFT B/D ASSY
6	6871QYH029A	PWB(PCB) ASSY	Y SUS B/D ASSY
\bigcirc	6871QZH033A	PWB(PCB) ASSY	Z SUS B/D ASSY

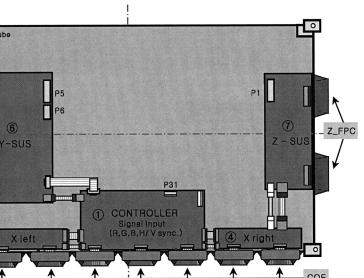
(PDP Module adjustment)

- 1) Setting up the initial voltage and adjusting the
- voltage wave form of Vsetup 2) Measuring the voltage Margin of Vs and
- deciding the voltage 3) Adjusting and checking the voltage of DC/DC
- pack (Vsetup, Vscw, -Vy) 4) Adjusting the voltage wave form of Vset-down
- 5) Measuring the Margin of Vset-up voltage and deciding the voltage
 - 6) Adjusting the wave form of final voltage
 - 4. Adjusting the Board Group (Applying the Jig Set)
 - 4-1. Using Tools
 - 1) Digital oscilloscope: More than 200MHz
 - 2) DVM (Digital Multimeter): Fluke 87 or similar one
 - 3) Signal generator: VG-825 or similar one 4) DC power supply

wave form)

- DC power supply for Vs (1) : Should be
- DC power supply for Va (1) : Should be

Formation and Specification of Module



Connector	Input Voltage & Signal
P1[Z SUS B/D]	5V, Va, Vs
P5[Y SUS B/D]	Vs
P6[Y SUS B/D]	5V
P31[CTRL B/D]	Video Signal

changeable more than 0-200V/ more than 10A changeable more than 0-100V/ more than 5A DC power supply for 5V (1) : Should be changeable more than 0-10V/ more than 10A DC-DC Converter Jig (1) : The Jig which has voltage equivalent output of PDP42V6#### Module after taking the Vs, Va, 5V voltage Voltage stability of power supply : Within ±1% for Vs/Va, within ±3% for 5V

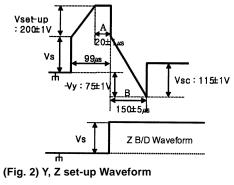
4-2. Connection diagram of measuring instrument and setting up the initial voltage I) Connection diagram of measuring instrument Refer to Fig. 1.(Connection diagram of measuring instrument that adjusting the voltage

2) Setting up the initial voltage

Initially setting up voltage : Vcc: 5V, Va: 65V, Vs: 185V But, Initially setting up voltage can be changed by the set up range according to the Module's characteristic.

4-3. How to Adjust

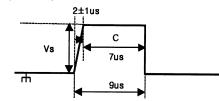
- 1) Adjusting the Voltage Wave form of Vsetup Connect measuring instrument like the
- connection diagram Fig. 1. Turn on the power of the measuring
- instrument like the **<Caution>** item Fig. 1.
- Connect the oscilloscope probe to P4 connecter (80 Pin) of Y-SUS PCB and GND. Turn the VR1 of Y-SUS PCB and make the
- "A" wave form Fig. 2 to be $20\pm1\mu$ s.
- 2) Adjusting Vset-down Voltage Waveform Turn the VR2 of Y-SUS PCB and make the "B" wave form Fig. 2 to be 150±5µs.



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- 3) Adjusting the Voltage Wave form of Vramp Connect oscilloscope Probe to the B37 Pin
- on Z PCB and the GND. • Turn the VR3 of Z PCB and make the "C" waveform Fig. 3 to be 7µs.

But, in case of not setting up the Test point, produce same output and adjust waveform connect to other pattem or parts which has no possibility of short.



5. Adjustment after Assembling (PDP Module Adjustment)

5-1. Using Tools

- 1)Digital oscilloscope : More than 200MHz 2) DVM (Digital Multimeter): Fluke 87 or similar one
- 3)Signal generator: VG-825 or similar one 4) DC power supply
- DC power supply for Vs(1): Should be changeable more than 0-200V/ more than 10A
- DC power supply for Va (1): Should be changeable more than 0-100V/ more than 5A
- DC power supply for 5V (1): Should be changeable more than 0-10V/ more than 10A
- DC-DC Converter Jig (1): The Jig which has voltage equivalent output of PDP42V6#### Module after taking the Vs, Va, 5V voltage
- Voltage stability of power supply: Within ±1% for Vs/Va. within ±3% for 5V

5-2. Connection diagram of measuring instrument and setting up the initial voltage

- 1) Connection diagram of measuring instrument. Refer to figure 1. (Connection diagram of measuring instrument that adjusting the voltage wave form)
- 2) Setting up the initial voltage Initially setting up voltage: Vcc: 5V, Va: 65V, Vs: 185V

But, Initially setting up voltage can be changed by the set up range according to the Module's characteristic.

5-3. How to Adjust

1) Adjusting initial voltage waveform Check the voltage wave form like the mentioned way on the 4-3 (How to adjust) and readiust the wave form when it is wrong.

2) Checking the DC/DC pack voltage

- Convert the signal of signal generator to the 100% Full White signal
- Connect the GND terminal of DVM to the R30's right leg of the Y B/D and set the Plus terminal to the left leg of R30 to check the Vscw voltage $(115\pm1V)$ and when there is abnormality in voltage turn the variable resistor (VR5) of DC/DC Pack (Vscw) on Y B/D to adjust.
- Connect the GND terminal of DVM to the R31's right leg of the Y B/D and set the Plus terminal to the left leg of R31 to check the -Vv voltage $(-75 \pm 1V)$ and when there is abnormality in voltage turn the variable resistor (VR6) of DC/DC Pack (-Vy) on Y B/ D to adjust.
- Connect the GND terminal of DVM to the R27's right leg of the Y B/D and set the Plus terminal to the left leg of R27 to check the Vsetup voltage (200±1V) and when there is abnormality in voltage turn the variable resistor(VR4) of DC/DC Pack(Vsetup) on Y B/D to adjust.

3) Measuring the Vs voltage Margin and deciding the voltage

- Convert the signal of signal generator to the 100% Full Red signal.
- Turn the voltage adjusting knob of Vs DC power supply to the voltage -down direction and make the cell of screen turned off.

Turn the voltage adjusting knob of Vs DC power supply to the voltage -up direction until the cell of screen tumed on. The first voltage, which make the cell of full screen turned on, is named as Vsmin1 and record it. Tum the voltage adjusting knob of Vs DC power supply to the voltage-up direction slowly until the cell of screen turned off or over electric discharge. The first voltage, which makes the cell of screen tumed off or over electric discharge, is named as Vsmax1 and records it. (Only, Vs voltage variable passes over the maximum 190V)

- Convert the signal of signal generator to the 100% Full Green signal.
- Repeat the adjustment (2) item and name each voltage as Vsmin2/Vsmax2 and record them. Convert the signal of signal generator to 100%
- Full Blue signal. Repeat the adjustment (2) item and name each
- voltage as Vsmin3/Vsmax3 and record them.
- Convert the signal of signal generator to 100% Full White signal.
- Repeat the adjustment (2) item and name each voltage as Vsmin4/Vsmax4 and record them.
- Convert the signal of signal generator to 100% Full Black signal.
- Repeat the adjustment (2) item and name each voltage as Vsmin5/Vsmax5 and record them.
- At this time decided Vs voltage adds 6V to Max value (Vsmin1~Vsmin5) and set up the voltage within the set-up range (180V < Vs < 190V) in consideration of other features.
- Turn the voltage adjusting knob of Vs DC power supply make deciding the Vs voltage.
- Adjust Vset-down waveform using setting up Vs voltage like mentioned on the 4-3.

4) Adjusting the final voltage waveform Check the voltage waveform like the mentioned way on the 4-3 (How to adjust) and re-adjust the waveform when it is twisted.

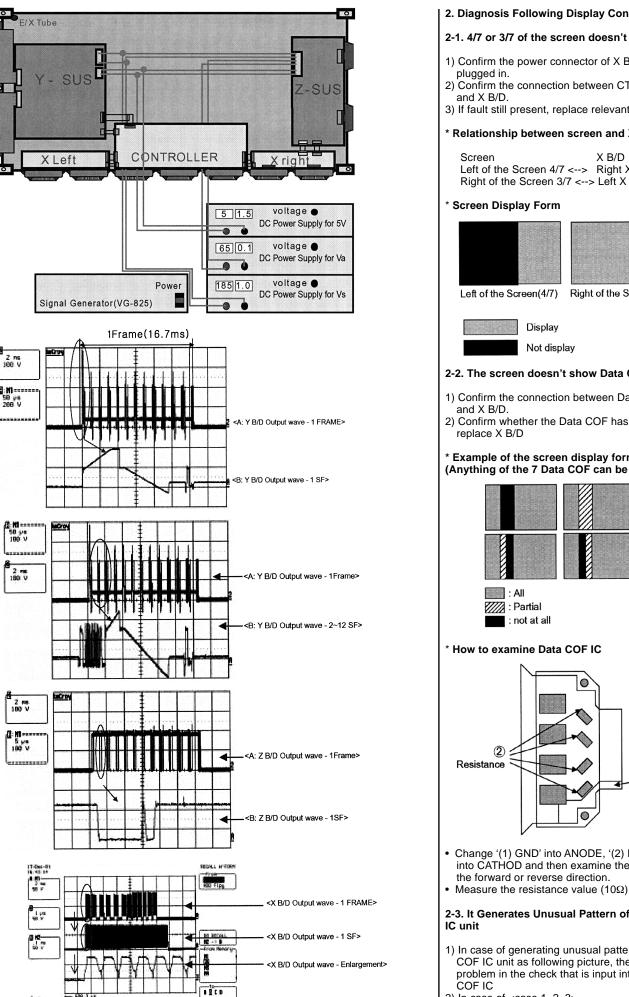
5) DC-DC Pack Voltage Set up Range Vsetup: 185V ~ 225V Vsc: 90V ~ 120V -Vy: -60V ~ -80V

Trouble Shooting

- 1. Checking for no Picture A screen doesn display at all and condition of black pattern or power off.
- 1) Check whether the CTRL B/D LED (D10, D11,
- D12, D13, D17) is turned on or not. 2) Check the power and signal cable of CTRL B/D.
- 3) X B/D, Y B/D, Z B/D is well plugged in. 4) Check the connection of X B/D. Y B/D and Z B/
- D to CTRL B/D.
- 5) Measure the output wave of X, Y, Z B/D with oscilloscope (more than 200Mhz) and find the fault of B/D by comparing the output wave with following figures.

Measure Point fo Y B/D : TP (Bead B103) Measure Point fo Z B/D : TP (Bead B37) Measure Point fo X B/D : COF TP

6) Check the SCAN (Y side) IC 7) Check the DATA (X side) COF IC 8) Replace the CTRL B/D.



TANK HEAR 0 5704723

- 1) Confirm the power connector of X B/D is well plugged in.
- 2) Confirm the connection between CTRL B/D
- 3) If fault still present, replace relevant X B/D.
- Relationship between screen and X B/D

Left of the Screen 4/7 <--> Right X B/D

Screen Display Form

Left of the Screen(4/7) Right of the Screen(3/7)



2-2. The screen doesn't show Data COF

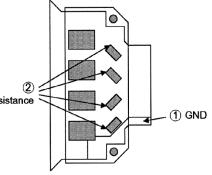
- 1) Confirm the connection between Data COF and X B/D. 2) Confirm whether the Data COF has failed and
- replace X B/D

Example of the screen display form (Anything of the 7 Data COF can be shown)

	· All	

: All : not at al

How to examine Data COF IC



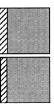
- Change '(1) GND' into ANODE, '(2) Resistance' into CATHOD and then examine the Diode to the forward or reverse direction.
- 2-3. It Generates Unusual Pattern of Data COF
- 1) In case of generating unusual pattern of Data COF IC unit as following picture, there is problem in the check that is input into Data COFIC
- 2) In case of <case 1, 2, 3>
- Replace the relevant X B/D

2. Diagnosis Following Display Condition

2-1. 4/7 or 3/7 of the screen doesn't appear

X B/D Right of the Screen 3/7 <--> Left X B/D

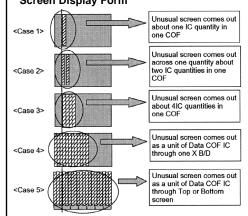




Confirm the connection of Data COF connector

- 3) In case of <case 4.5>
- Confirm the connection from CTRL to X B/D If fault still present, replace relevant XB/D or CTRL B/D

Screen Display Form



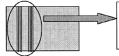
2-4. Regular Stripe is Generated about the Quantity of one Data COF IC or more

- 1) In case of generating regular stripe about the quantity of one Data COF IC, there is a problem at the output of output-flatworm of X . B/D
- In case of generating regular stripe about the quantity of two Data COF IC, that means the data which is conveyed from CTRL B/D doesn't conveyed well.
- 2) Confirm the XB/D connection connector plugged in well.
- 3) If fault still present, replace relevant XB/D or CTRL B/D.

⁶ Relationship between screen and X B/D

Screen X R/D Left of the Screen 4/7 <--> Right X B/D Right of the Screen 3/7 <--> Left X B/D

Screen Display Form



It comes out partial field about the quantity of one IC or more or It may come out together at other field of scree

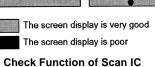
2-5. The screen display has a problem for Scan FPC

- 1) There may be a problem between Scan FPC and Y B/D.
- 2) Check the connection of Y B/D and Scan FPC
- 3) If the Scan IC has failed, replace the Y DRV B/D.

Screen Display Form

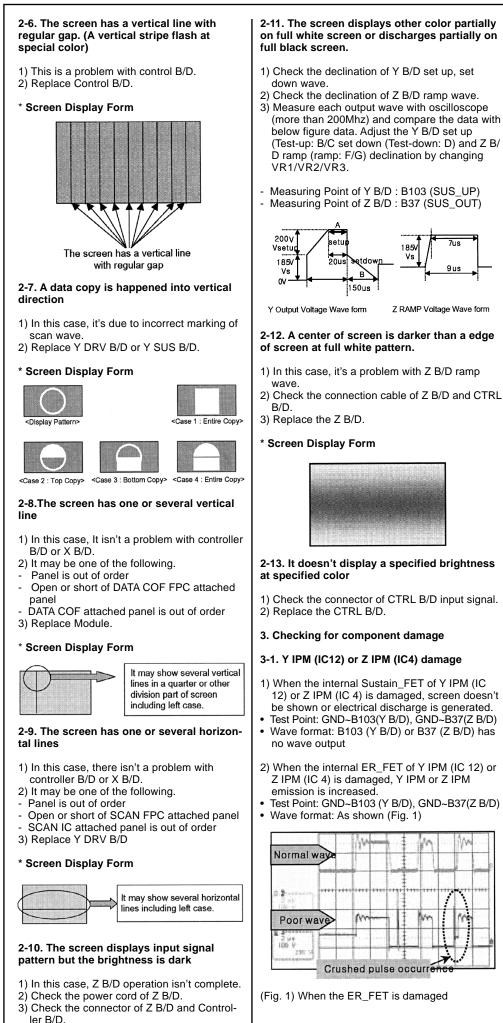


one eighth of screen



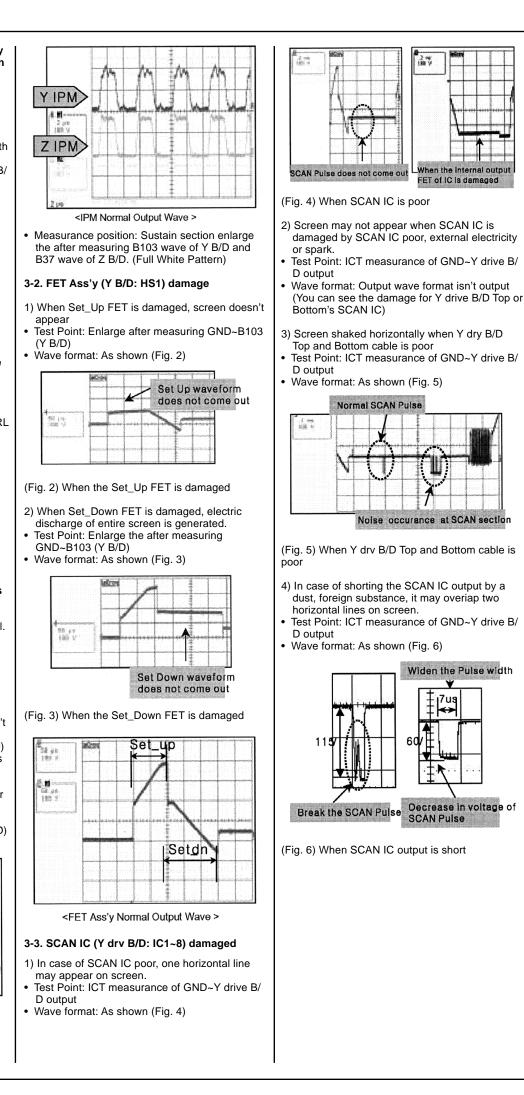


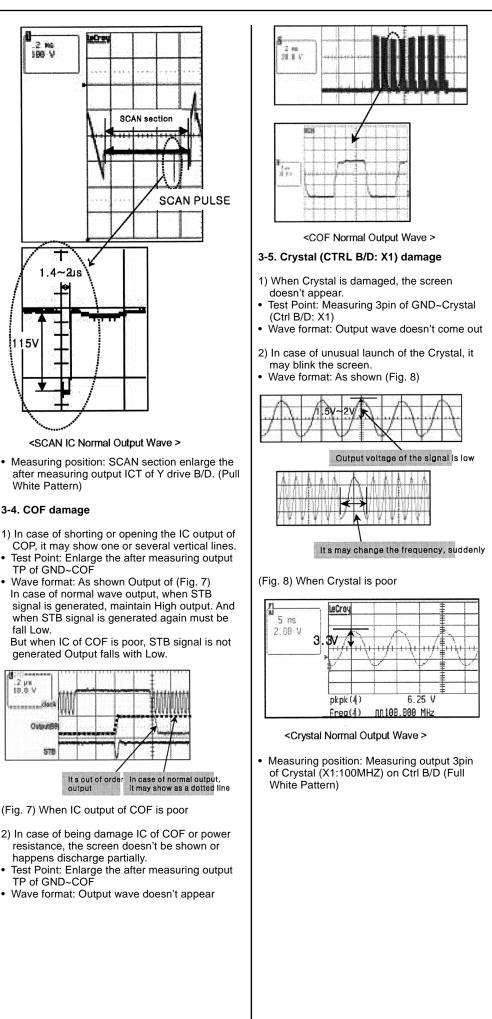
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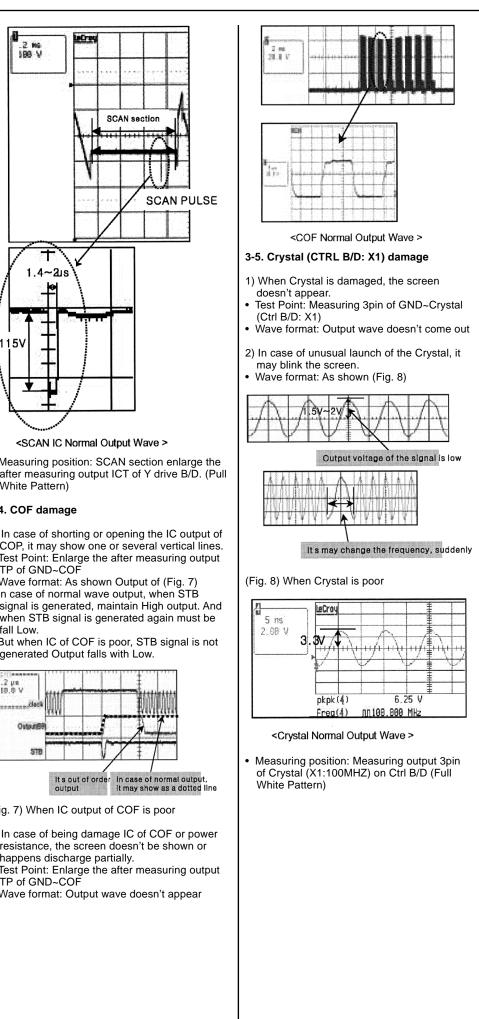
4) Replace the Controller B/D or Z B/D.

Z RAMP Voltage Wave form





3-4. COF damage

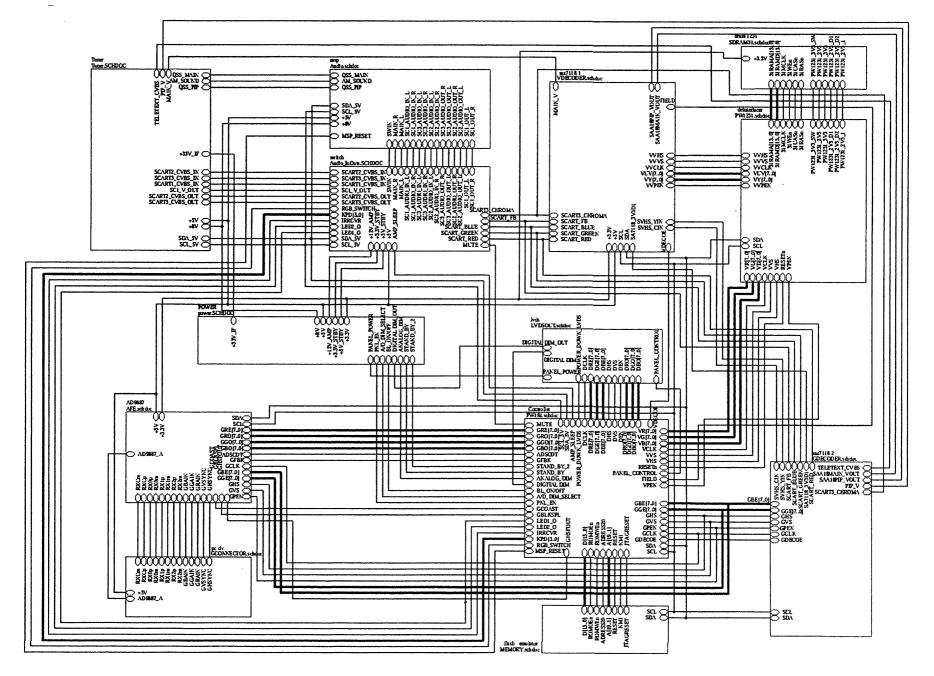


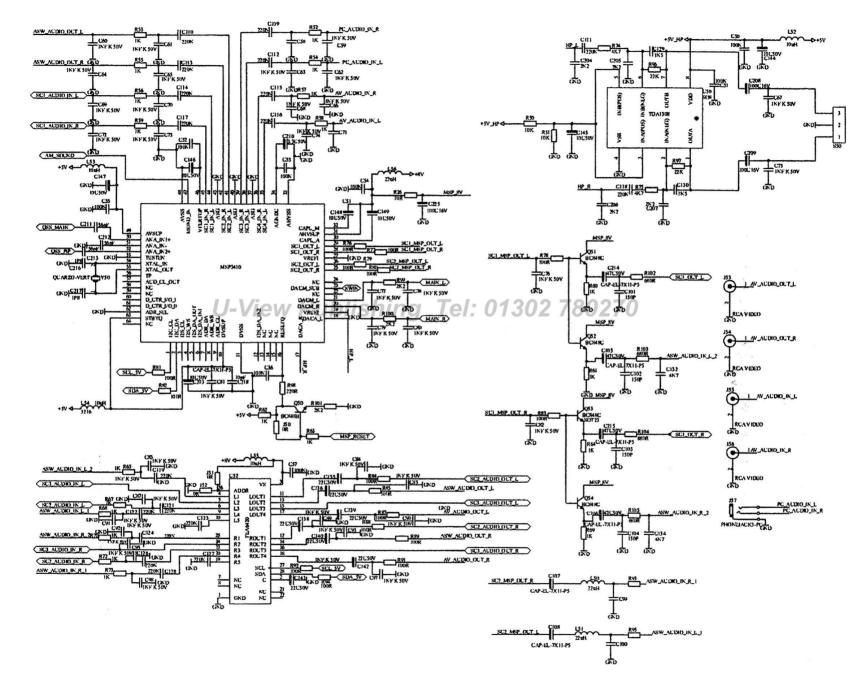
PART LIST

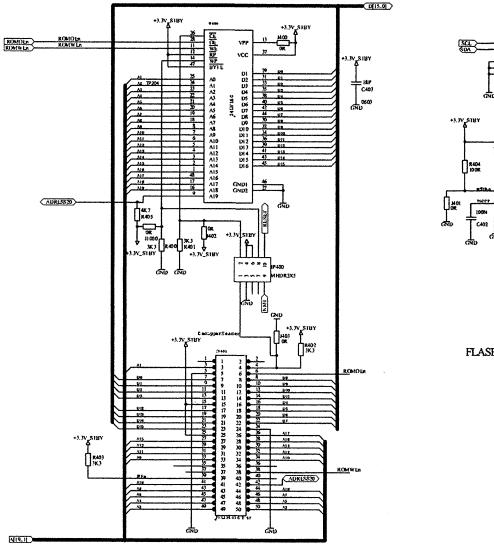
	Part Codes	Part Definition	Quanti
OARDS AND MODULES			
	ES 031491 PLUG AC INLET TWO PHASE NOISE FILTER R79110 I. L6B PDP CHASIS 42* R82175 SPEAKER BOARD COMPLETED L6B PDP 42* R82185 SCART BOARD COMPLETED L6B PDP 42* X47102 PDP 42* LG V9 PANEL VE PW SP.DAE.GL PSU ZR1910 ADAPTOR SP5 18007 246 122 PC2 PINLUSH ZR1917 R02167 R7010 D038980R MAIN CABLE PC/MONITOR 2MT EUROWITH FER 0309407R R02168 R02167 R7010 CVER 42*PDP B43 WITH KEYLS SILVER 010860R TACT SW LONG STEN 3034477 I. ED.3MM RED-BLUE LIGITEK LSRFSBK2092 42521R-1 IR RECEIVER TSO/24438 SS1A R82113 R0217 R70302 MESH FILTER (E)M4213JW0345L S1(SKC)V6 R70335 42* PDP L6B V6 W1 DB AS WITH KEYLS SIL R70336 42* PDP L6B V6 W1 DB AS WITH KEYLS SIL R70336 42* PDP L6B V6 W1 DB AS WITH KEYLS R70336 42* PDP L6B V6 W1 DB AS WITH KEYLS R70336 42* PDP L6B V6 W1 DB AS KOK COV.BOT R70382 42* PDP L6B V6 W1 DB AS KAK COV.BOT R70382 42* PDP L6B V6 W1 DB AS KAK COV.BOT R70383 42* PDP L6B V6 W1 DB ANK SAK COV.BOT R70383 42* PDP L6B V6 W1 DB ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 W1 DB ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 W1 DB ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 W1 DB ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 W1 DB ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 W1 DB ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 RV BD ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 RV BD ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 RV BD ANK SAK COV.BOT R70383 42* PDP L6B U6 V6 RV BD ANK SAK COV.BOT R70383 42* PDP L6B L6 V6 FW BD ANK DWALE X24330 FRONT COVER ALU.SUPP.TOP L6+EM+CUSH X24330 FRONT COVER ALU.SUPP.BOTTOM L6+EM+CUSH X24332 FRONT COVER ALU.SUPP.BOTTOM L6+EM+CUSH X24332 FRONT COVER ALU.SUPP.BOTTOM L6+EM+CUSH X24332 FRONT COVER ALU.SUPP.BOTOM L00EL X24330 FRONT COVER ALU.SUPP.BOTOM L205 S1745 S1745 S1745 S		
			_
			_
	ZR1910	ADAPTOR SPS 180W 24/5 12/5 PFC 2PIN(LISH	
	ZR4187R	R/C L6B SASI REMOTE CONTROL JAECS SILVER	
RAND-BEKO/TEST 42P6B43 SIL CU			
	X24251F	FRONT COVER 42"PDP B43 WITH KEY.B.SIL.P.	
U ASSY 42P6I 43			
PONT ERAME 42P6B43 SILVER(V6)			
RAND-BEKO/TEST 42P6B43 SIL CU J ASSY 42P6L43 RONT FRAME 42P6B43 SILVER(V6			
			_
R2172 CJ ASSY 42P6L43 R2175 SPEAKER BOARD COMPLETED L68 PDP 42" R2185 SCART BOARD COMPLETED L68 PDP 42" R2175 SPEAKER BOARD COMPLETED L68 PDP 42" R2175 SPEAKER BOARD COMPLETED L68 PDF 42" R24107 R2410 V5 PARKU V5 PW 35 PDE CONTROL ALCE 2011/L15H ZR1910 ADAPTOR SPS 160W 24/5 125 PFC 2PINILISH ZR1910 ADAPTOR SPS 160W 24/5 125 PFC 2PINILISH ZR35Y 42P6L43 006860R 010680R TACT SW LONG STEN 303447R LED 3MM RED-BLUE LIGTEK R252174 IR RECEVER IS COPA3938 SS1A R22174 CL PR CEVER SWTCH 78936 SS1A R22174 CL PR CEVER SWTCH 789439 SS1A R23174 CL PR CEVER SWTCH 789439 SS1A R23174 CL PD 180 LG 40 PW BOARD DOXT SH. IRON R79363 42" PDP L68 LG 46 PW BOARD DOXT SH. IRON R79363 42" PDP L68 LG 46 PW BOARD DOXT SH. IRON EA R79363 42" PDP L68 LG 46 PW BOARD DOXT SH. IRON EA R79363 42" PDP L68 LG 46 PW BOARD DOXT SH. IRON EA R79363 42" PDP L68 LG 46 PW BOARD DOXT SH. IRON EA R79363 42" PDP L68 LG 47 PW P			
	031251		
	031299	CONN.HOUS.10P 2317-10S JST4B-XH-A BEYAZ	
	031358		
	031423R	HEADPHONE JACK YKB21-5103	
	031476	CONN.HOUSING.12P 2MM 89400-1210 MOLEX	
	031508R	CONN. RF IEC TO RCA	
	031658	CONN.HOUSING.10P 2MMM 89400-1010 MOLEX	
	031769R	CONN.HOUS.4P 2317-4S JST B 4B-XH-A RED	
			_
	056753R		
	056952R	CRYSTAL 18.432MHZ +-30PPM	

	Part Codes	Part Definition	Quanti
	170102R	RC-CHIP 10R J 1/8W /1206	
	170112R	RC-CHIP 2K J 1/16W /0603 TAPE	
	170154R	RC-CHIP 150R J 1/16W /0603 TAPE	
	170181R	RC-CHIP 18R J 1/16W /0603	
	170474R	RC-CHIP 47R J 1/16W /0603 TAPE	
	170560R	RC-CHIP 56R J 1/16W /0603 TAPE	
	170686R	RC-CHIP 68R J 1/10W /0603	
	170751R	RC-CHIP 75R J 1/10W/0603	
	171108R	RC-CHIP 100R J 1/10W /0603	
	171224R	RC-CHIP 220R J 1/16W/0603 TAPE	
	171275R	RC-CHIP 270R F 1/10W /0603	
	171336R	RC-CHIP 330R J 1/16W /0603 TAPE	
	171472R	RC-CHIP 470R J 1/16W /0603 TAPE	
	171562	RC-CHIP 560R J 1/16W/0603 TAPE	
	171562R	RC-CHIP 560R J 1/16W/0603 TAPE	
	171683R	RC-CHIP 680R J 1/16W /0603	
	171824R	RC-CHIP 820R J 1/16W /0603 TAPE	
	172104R	RC-CHIP 1K J 1/16W /0603	
	172111R	RC-CHIP 1K J 1/10W /0603	
	172112	RC-CHIP 1K 1% 1/10W /0603	
	172112R	RC-CHIP 1K 1% 1/10W /0603	
	172228R	RC-CHIP 2.2K J 1/10W /0603	
	172336R	RC-CHIP 3.3K J 1/16W /0603	
	172393R	RC-CHIP 3.9K J 1/16W/0603 TAPE	
	172473R	RC-CHIP 4.7K J 1/10W /0603	
	172567R	RC-CHIP 5.6K J 1/16W /0603 TAPE	
	172686	RC-CHIP 6.8K J 1/16W /0603	
	172686R	RC-CHIP 6.8K J 1/16W /0603	
	172824R	RC-CHIP 8.2K J 1/16W /0603 TAPE	
	173100R	RC-CHIP 10K J 1/10W /0603	
	173108R	RC-CHIP 10K J 1/16W /0603	
	173124R	RC-CHIP 12K J 1/16W /0603 TAPE	
	173228R	RC-CHIP 22K J 1/10W /0603	
	173229	RC-CHIP 22K J 1/16W /0603	
	173229R	RC-CHIP 22K J 1/16W /0603	
	173332R	RC-CHIP 33K J 1/16W /0603 TAPE	
	173563R	RC-CHIP 56K J 1/16W /0603	
	174152R	RC-CHIP 150K J 1/16W /0603 TAPE	
	175105R	RC-CHIP 1M J 1/16W/0603 T&R	
	175221B	RC-CHIP 2.2M J 1/16W /0603	
	179005R	RC-CHIP 0R /0603 1.6*0.8 TAPE	
	179475R	RC-CHIP 4.7R J 1/16W/0603	
	190471R	R-ARRAY-CHIP 47R*4/YC16	
	250332	EC 3.3UF 50V 11*5 R:5	
	250332R	EC 3.3UF 50V 11*5 R:5	
	250332R	EC 3.30F 50V 11 5 R.5	
	250333R	EC 10UF 50V RS 11*5 TAPING R=5MM	
	25112R 251222R	EC 22UF 50V RS 11'S TAPING R-SIMM EC 22UF 50V RS 11*6.3 TAPING	
	251222R 251475R	EC 220F 50V RS 11*6.3 TAPING EC 47UF 63V 11*6.3 R:5	
		EC 100UF 50V 12*8 R:5	
	252105R	EC 1000F 50V 12*8 R:5 EC 100UF 16V 11*6 R:5	
	252112R	EC 1000F 16V 11-6 R:5 EC 220UF 35V WL 16*8 LESR/HRPL	
	252241R		
	253109	EC 1000UF 35V 30*10 R:5	
	273121R	C-PEM 10NF J 100V R:5	
	274227	C-PEM 220NF J 50V R:5	
	274227R	C-PEM 220NF J 50V R:5	
	274474R	C-PEM 470NF J 63V R:5	
	280107R	TC-CHIP 1UF 25V /A3216	
	280225R	TC-CHIP 2.2UF 10V /A3216	
	290019R	CC-CHIP 1.8PF C 50V/0603 NPO	
	290107R	CC-CHIP 10PF J 50V /0603 NPO TAPE	
	290122R	CC-CHIP 12PF J 50V /0603	
	290186R	CC-CHIP 18PF J 50V /0603 NPO	
	290223R	CC-CHIP 22PF J 50V /0603 NPO TAPE	
	290335R	CC-CHIP 33PF J 50V /0603 NPO TAPE	
	290390R	CC-CHIP 39PF J 50V /0805 NPO	
	290391R	CC-CHIP 39PF J 50V /0603 NPO	
3 CHASSIS	290475R	CC-CHIP 47PF J 50V /0603 NPO TAPE	
	291104R	CC-CHIP 100PF J 50V /0603 NPO	

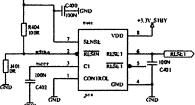
	Part Codes	Part Definition	Quantity
	291155R	CC-CHIP 150PF J 50V /0603 TAPE	10
	291393	CC-CHIP 390PF J 50V /0603 NPO TAPE	2
	291393R	CC-CHIP 390PF J 50V /0603 NPO TAPE	2
	292114R	CC-CHIP 1NF K 50V /0603 X7R	51
	292115R	CC-CHIP 1NF J 50V /0603	4
	292153R	CC-CHIP 1.5NF K 50V /0603 X7R TAPE	2
	292392R	CC-CHIP 3.9NF K 50V /0603 X7R	1
	292475R	CC-CHIP 4.7NF K 50V /0603 X7R	2
	293391R	CC-CHIP 39NF K 50V /0603 X7R	1
	293478R	CC-CHIP 47NF K 25V /0603 X7R TAPE	36
	294122R	CC-CHIP 100NF K 50V /0603 X7R	205
	294234R	CC-CHIP 220NF K 16V /0603 X7R	27
	294476R	CC-CHIP 470NF K 16V /0805 X7R	6
	302318	DIODE Z. BZX55C33 52MM	1
	302318R	DIODE Z. BZX55C33 52MM	1
	302948R	DIODE 1N4007	1
	303180-AS	DIODE 1N5820 SCHOTTKY FERRIT	2
	303195R	DIODE 4148 MELF SOD-80C	8
	303197	DIODE BAV70	2
	303197R	DIODE BAV70	
	303223R	DIODE-CHIP BA682 SOD80	- 2
	303420	DIODE-CHIP BA591 SOT323 TAPE	
	303818R	DIODE-CHIP BAV99LT1 SOT23 T&R	
	303864R	DIODE Z.TZMC5V6-5.6V SOD80C	- 2
	303867R	DIODE-CHIP SL23 DO214AA	
	401141R	TRN-CHIP BC848BLT1G SOT23	25
	401372R	TRN FDS9933A	
	451569R	IC-CHIP TDA9886T/V3 118(SO24) T&R	
	452863R	IC MT48LC4M16A2P-7E SDRAM 54PIN TSOP	
	453007	IC LM2596S-5.0	
	453095R	IC-CHIP NCP1117DTARK G (DPAK) T&R TO252	
	453124R	IC-CHIP NCP1117DT33RK G TO-252 PACKAGE	4
	453195R	IC-CHIP NCP TTT/DT35RK G TO-252 PACKAGE	
	453233	IC-CHIP AM29LV160DB-90EC (TRAY)TSOP48	
	453261	IC-CHIP 24LC21A-I/SN-CMOS18K/2.5V SE.T&R	
		IC-CHIP 24LC2TA-I/SN-CMOSTON/2.5V SE.Tak IC-CHIP AD9887AKSZ-100 DUAL IN FACE TRAY	
	453262R	IC-CHIP AD988/AKSZ-100 DUAL IN.FACE TRAT	
	453263R	IC-CHIP TEA6415CDT -VIDEO-MAT-SW.T&R	
	453271R		
	453294R	IC-CHIP LM2576D2TR4-005V 3A TO263 STPT&R	
	453310R	IC-CHIP SAA7118E/V1/M5 BGA156 T&R	
	453346R	IC-CHIP PW 1231A L	
	453347R	IC-CHIP PW181A-10V L BGA352	
	453349R	IC-CHIP TLC7733 /SO8	
	453350R	IC-CHIP PCF8591 /SO16	
	453351R	IC-CHIP TEA6420DT T&R	
	453352R	IC-CHIP MSP3410-MQFP64	
	453428R	IC-CHIP LM317MDTRK G TO-252 T&R	
	453494R	IC-CHIP TRIPATH TA2024 STEREO CLAS-D T&R	
	453921R	IC-CHIP DS90C385A MTD56	
	R84501R	CABLE L=65MM GREEN AW G28	
	Y11136R	TUNER HOR.PHILLIPS UV1316/A I H-4	
	Y11501R	CABLE RF TUNER L=50MM L5B PH.TUN.	
	Y51136RPH1	TUNER PH UV1316T/SIGH-3 SPL ASIMTRK YAT	
	Y51501R	CABLE PIP TUNER L=230MM	
B PDP 42" CABLE V6 PANEL	055145R	FERRIT CORE Z=276R (100MHZ) STEWARD	
	R79525R	KONN.CAB.4PL=150MM 250G2-H04 FERRIT	
	R82523-AS	CABLE L6B PDP 42" POW.SUP.2 PIN L=530MM	
	R82527-AS	CABLE WITH.TERM.L=500MM YEL-GR AWG22	
	R82535-AS	CABLE WITH KON 2P L=480+340MM FERRIT	
	X56523-AS	CABLE WITH TERM SW-LINE FILTRE L=110MM	
	X56525-AS	CABLE WITH TERM SW EINE HEINE LETION	



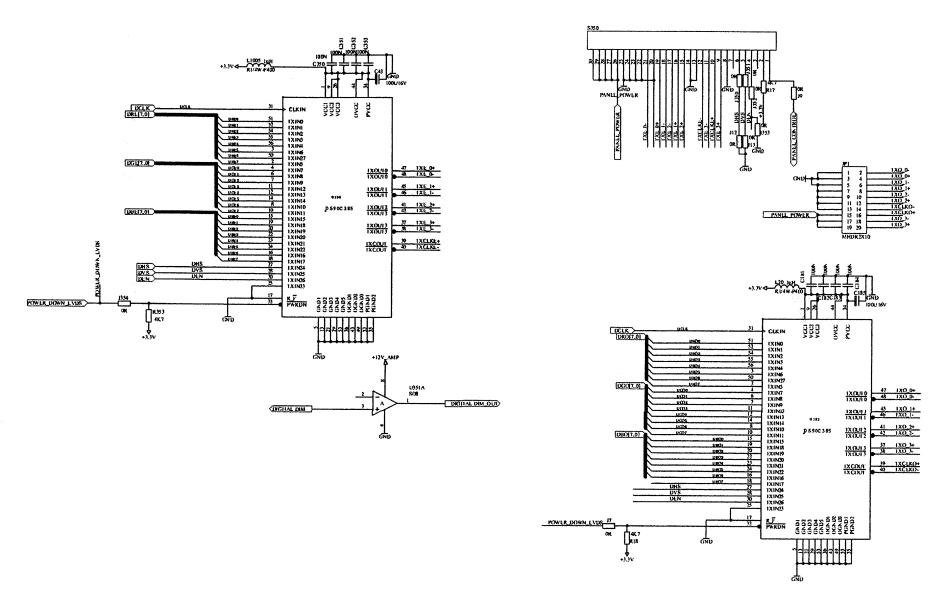


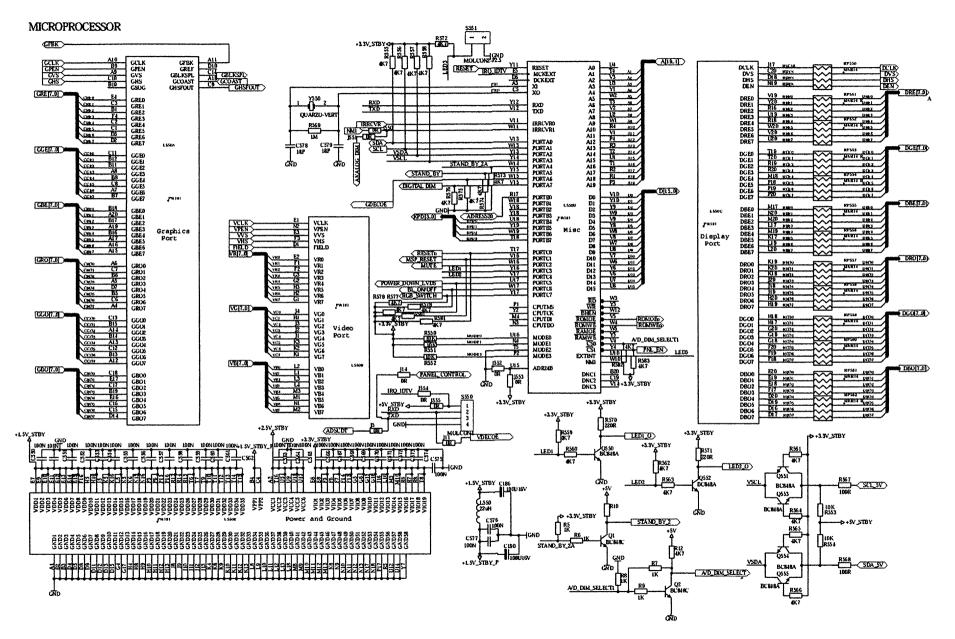


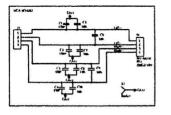
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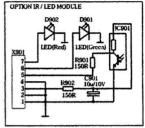


FLASH MEMORY -RESET IC









KEYBOARD MODULE

