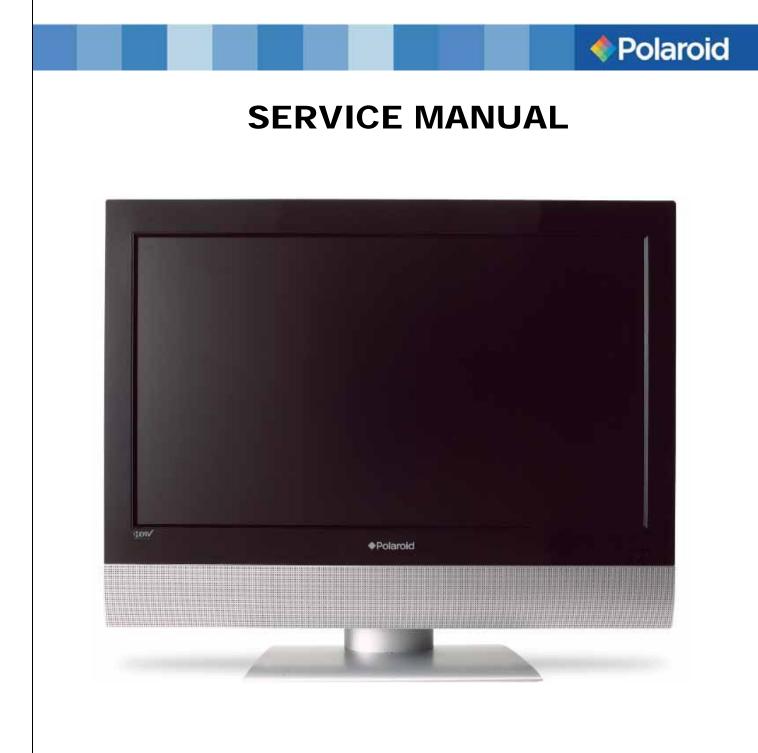
2006 LCD Models – North America FLM-4034B, FLM-4232HM, FLM-4234BH



Bezel covers vary by model 20070415

Important Service and Safety Information





Prior to using this service manual, please ensure that you have carefully followed all the procedures outlined in the user's manual for this product.

- (1) Read all of these instructions.
- (2) Save these instructions.
- (3) Follow all warnings and instructions marked on the product.
- (4) Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners; use a damp cloth for cleaning.
- (5) Do not use this product near water.
- (6) Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
- (7) Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation unless proper ventilation is provided.
- (8) This product should be operated from the type of power source indicated on the marketing label. If you are not sure of the type of power available, consult your dealer or local power company.
- (9) This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature, if you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not ignore the purpose of the grounding-type plug.
- (10) Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- (11) If an extension cord is used with this product, make sure that the total of the ampere ratings on the product plugged into the extension cord does not exceed 15 ampere.
- (12) Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- (13) Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.
- (14) Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - **b**. If liquid has been spilled into the product.
 - c. If the product has been exposed to rain or water.
 - **d**. If the product does not operate normally, when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or the cabinet has been damaged.
 - f. If the product exhibits a distinct change in performance, indicating a need for service.

Important Service and Safety Information

Service work should be performed only by qualified service technicians familiar with all safety checks and these service guidelines:

ELECTRIC SHOCK HAZARD



Always disconnect AC power before servicing! Never modify any circuit! Never insert any objects into the holes in the TV case!

WARNING

ELECTROSTATIC DISCHARGE (ESD)

Components inside an LCD or plasma TV are sensitive to static electricity. Before servicing the TV, follow these guidelines:

- Avoid static-causing surfaces such as carpeted floors, plastic, and packing foam.
- Remove replacement components from their antistatic bags only when you are ready to use them. Do not lay components on the outside of antistatic bags because only the inside of the bags provide electrostatic protection.
- Always hold components by their edges. Avoid touching the edge connectors. Never slide components over any surface.
- Wear a grounding wrist strap (available at most electronics stores) and attach it to a bare metal part of your workbench or other grounded connection.
- Touch a bare metal surface on your workbench or other grounded object before touching any components.

NOTICE ABOUT REPLACEMENT PARTS



Many electrical and mechanical parts within LCD or plasma televisions are chosen for their specific safety characteristics within the overall system. Replacing individual parts with components rated for higher voltage or wattage can be dangerous!

Replacement parts must always be identical to those originally used in the television. Unauthorized substitute parts may result in fire, electric shock, or other hazards.

Important Service and Safety Information

PRECAUTIONS FOR USING LEAD-FREE SOLDER

Components within this television use lead-free solder (Sn-Ag-Cu). Whenever soldering, look at the markings on boards and components within the television to determine the correct solder type according to the table below.

5 LEAD-FREE (Pb-Free) CATEGORIES

The following categories are meant to describe the Pb-free 2nd level interconnect terminal finish, component material, and/or the solder paste/solder used in board assembly:

- e1 SnAgCu (shall not be included in category e2)
- e2 Sn alloys with no Bi or Zn excluding SnAgCu
- e3 Sn
- e4 Precious metal (e.g., Ag, Au, NiPd, NiPdAu) (no Sn)
- e5 SnZn, SnZnx (no Bi)
- e6 contains Bi
- e7 low temperature solder (\leq 150 °C) containing Indium (no Bi)
- e0, e8, e9 symbols are unassigned at this time.

When repairing components soldered with lead-free solder, ONLY use lead-free solder that matches the symbol on the component. Using conventional lead solder may lead to damage or a short, which could result in fire, electric shock, or other hazards.

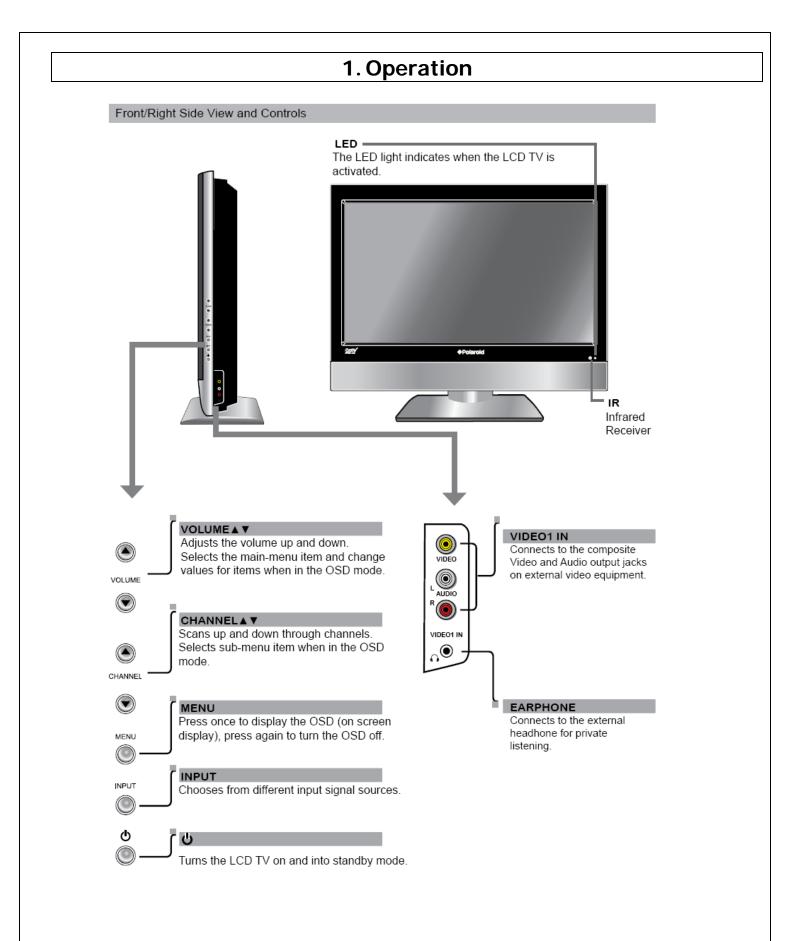
Because the melting point of lead-free solder is higher than conventional lead solder, observe the following guidelines when soldering with lead-free solder:

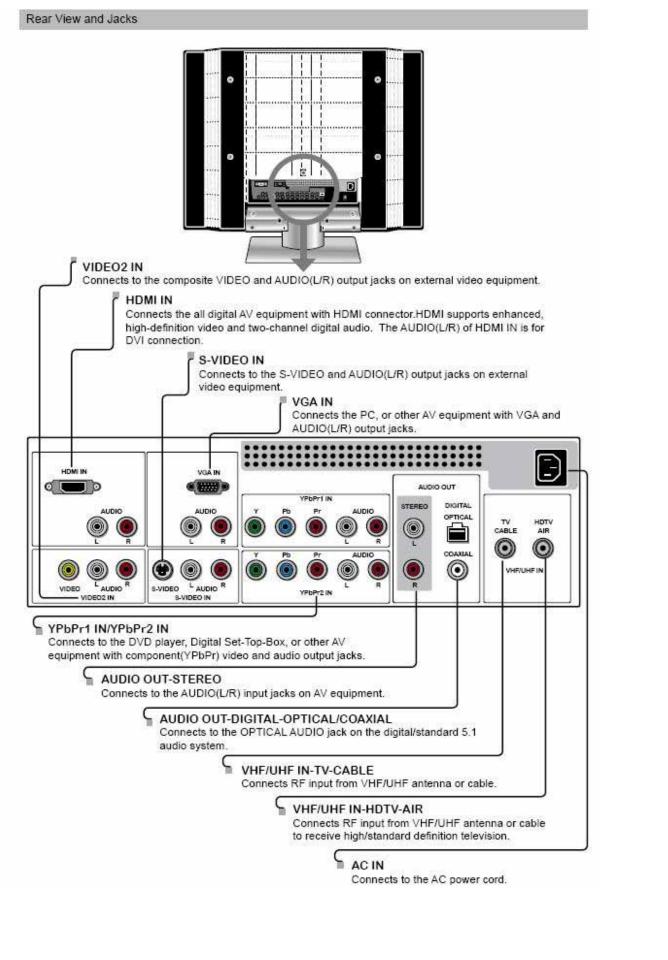
- (1) Always use a dedicated soldering bit for different types of solder. If a different type of solder comes in contact with a lead-free solder bit, subsequent solder joints will no longer be lead free. Always clean the soldering bit after every use.
- (2) Keep the soldering bit in contact with the just long enough to confirm a good solder joint. Leaving the bit in contact with parts for an extended period may damage the components.
- (3) Because lead-free solder contains a higher concentration of tin, the tip of the soldering bit may be easily corroded or damaged. Do not leave the bit powered on for extended periods. When the tip of the soldering bit is blackened during use, clean the bit with steel wool or fine sandpaper.

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Model Specifications are located in User Manual. Go to polaroid.com to obtain User Manual.

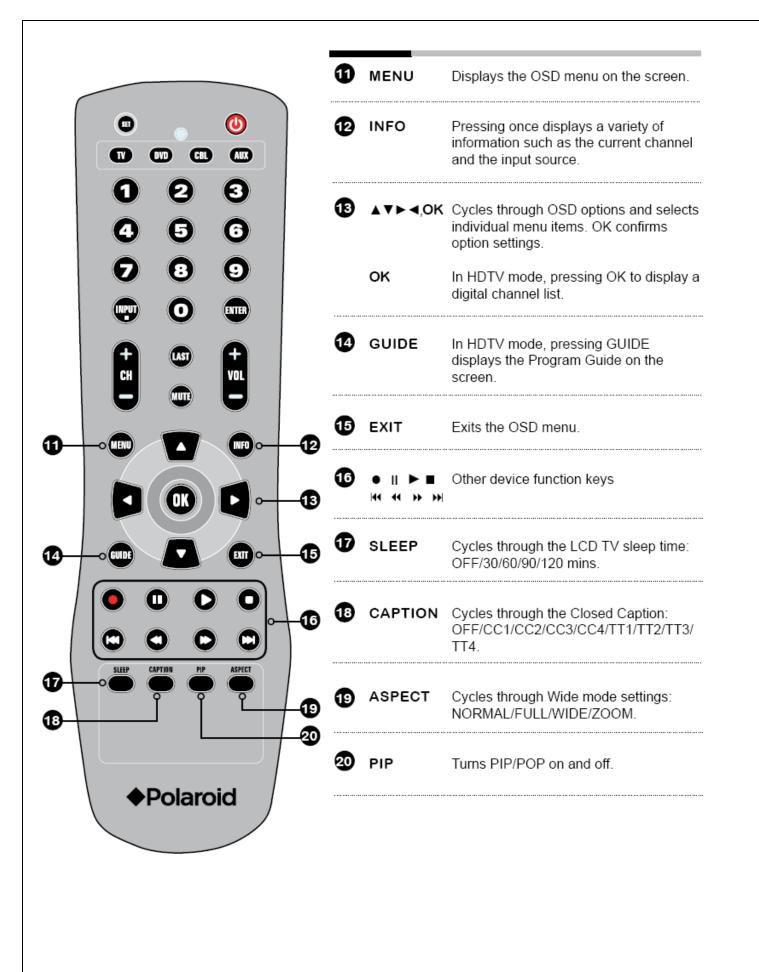




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Original Remote Control

	1 ს	Turns the LCD TV on and off.
	1 2 SET	Remote control universal code setup. For more information on setting up your remote control, please see the "Programming Your Remote Control" section.
4 5 6 7 8 9	3 TV	Controls this LCD TV.
		Controls DVD player or Video player.
	CBL	Controls Cable Converter or Satellite Receiver.
	-D AUX	Controls Audio Amplifier
	5 0-9/ENTER	Pressing a number selects a channel. Following selection, pressing ENTER activates the channel, or channel activates automatically in 3 seconds.
	6 INPUT	Pressing INPUT to display a source list, use ▲ ▼ buttons to select the video equipment connected to the video inputs of your LCD TV: TV/HDTV/VIDEO1/ VIDEO2/VIDEO3/VIDEO4/VIDEO5/ VIDEO6/COMPUTER.
	•	In HDTV mode, use with 0-9 and ENTER buttons to select a digital channels.
Polaroid	D LAST	Returns to previously selected channel.
	8 CH+-	Change channel up and down.
	9 VOL+-	Increases and decreases volume.
		Pressing once mutes audio. Pressing again restores audio.



New Remote Control

ڻ	Turns the LCD TV on and off.
2 SET	Remote control universal code setup.For more information on setting up your remote control, please see the "Programming Your Remote Control" section.
TV	Controls this LCD TV.
CBL	Controls Cable Converter or Satellite Receiver.
DVD	Controls DVD player or Video player.
AUX	Controls Audio Amplifier.
SLEEP	Cycles through the LCD TV sleep time: OFF/30/60/90/120 mins.
3 m m 4 ► p • II ■	Other device function keys
🔊 VOL+-	Increases and decreases volume.
₿ сн+-	Change channel up and down.
🛛 МОТЕ	Pressing once mutes audio. Pressing again restores audio.
ASPECT	Cycles through Wide mode settings: NORMAL/FULL/WIDE/ZOOM.
🛈 LAST	Returns to previously selected channel.
🔞 GUIDE	In HDTV mode, pressing GUIDE displays the Program Guide on the screen.
II PIP	Turns PIP/POP on and off.
	 2 SET 2 SET 3 TV 4 CBL DVD AUX 5 SLEEP 6 #4 P # 1 = 7 VOL+- 8 CH+- 9 MUTE 10 ASPECT 11 LAST 12 GUIDE

		۵	MENU	Displays the OSD menu on the screen.
2— 3—	and the second se) ())	▲▼► ⊲ ,0K	Cycles through OSD options and selects Individual menu items. OK confirms option settings.
_	Here Distant Per	9	ок	In HDTV mode, pressing OK to display a digital channel list.
9		0	CAPTION	Cycles through the Closed Caption: OFF/CC1/CC2/CC3/CC4/TT1/TT2/TT3/ TT4.
9		9 17 0	INFO	Pressing once displays a variety of information such as the current channel and the input source.
9	ANUTE ASPECT LAST			
0	GGUCE RP MENUO	0	EXIT	Exits the OSD menu.
D -		0	0-9/ENTER	Pressing a number selects a channel. Following selection, pressing ENTER activates the channel, or channel activates automatically in 3 seconds.
	NTO CO EXIT	B 30	INPUT	Pressing INPUT to display a source list, use ▲ ▼ buttons to select the video equipment connected to the video inputs of your LCD TV: TV/HDTV/VIDEO1/ VIDEO2/VIDEO3/VIDEO4/VIDEO5/ VIDEO6/COMPUTER.
	อรี่ย งอื่น หรือ ครัสธ หรือ หรือ หรือ หรือ พร้อง		•	In HDTV mode, use with 0-9 and ENTER buttons to select a digital channels.
	◆Polaroid			

Menu	Options	Sub-Options	Function and Description
VIDEO	Picture Mode	Vivid →Hi-Bright	Press repeatedly for different picture
		→Cinema	modes: Vivid \rightarrow Hi-Bright \rightarrow Cinema \rightarrow Sp
		→Sport→User.	→User.
	Contrast	0100 (75)	Fine tune the contrast.
	Brightness	0100 (50)	Fine tune the brightness.
	Saturation	0100 (50)	Fine tune the contrast.
	Hue	-30+30 (0)	Fine tune the contrast.
	Sharpness	07 (4)	Fine tune the contrast.
	Color Temperature	Cool	Set the color temperature type.
		Nature	
		Warm	
		User	Red/Green/Blue: -19+19
AUDIO	Bass	0100 (50)	Fine tune the bass value.
	Treble	0100 (50)	Fine tune the treble value.
	Balance	-20+20 (0)	Fine tune the balance value.
	Effect	Live	Select the preset effect mode to mat
		Dance	your music type and achieve stunning
		Techno	effects.
		Classic	
		Soft	
		Rock	1
		POP	1
		Off	Close this function.
	MTS	Mono	Set the sound type, which is only
	WI S	Stereo	available when input source is TV.
		Sap	
ТV	Auto Search	Auto search	Auto-search channels and put the
IV	Auto Search	channels.	programs into memory.
	Tuner Mode	Cable-STD / Cable-	Select the tuner mode.
		HRC / Cable-IRC	Sciect the tanel model
		Air	1
	Channel Skip	Set the channel that	If a channel is set to SKIP, when
		you want to skip.	scanning up/down channels the
			selected channel will be skipped.
	Channel Name	Edit the channel	It will be invalid if the current input
		name.	source is not TV.
SETUP	Language	English/	Set language.
	Time en	Spanish/French	To put our put time o
	Timer	Time	Input current time
		Start Time	Input the TV start playing time.
		Stop Time	Input the TV stop playing time.
		Channel	Input the channel No. for desired TV
		A attacks	program.
		Activate	On/Off/Once
		Display	On/Off
			Set the timer alarm on/off.
	Auto Sleep	30,60,90,120 Min	Preset the auto sleep time. The TV w
			automatically go into standby state
		0.0	when the preset time is up.
		Off	Set auto sleep function off.

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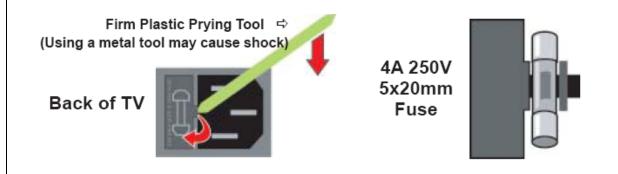
	Closed Caption	C1,C2,C3,C4,T1,T2, TT4,and Off	Set the closed caption mode.
	V-chip	Input Password Block MPAA Rating	Input the 4-digit password. " 0000 " Set the input source that you want to
		Block TV Rating	lock. Input the old password first, and then input the new password.
		Block MPAA Unrated Block TV None Rating	Block all unrated movies. Block all unrated TV programs.
	Reset	Reset to default value.	Reset the items in the setup menu except the protected items.
HDTV	Audio Language		To set the audio language to English, French, or Spanish.
	Time Zone		Set the Time Zone value to Eastern Time, Indiana, Central Time, Mountain Time, Arizona, Pacific Time, Alaska and Hawaii.
	Auto Scan		Auto-search channels and put the programs into memory.
	Manual Scan		Add-on mode: To search channels that had not searched last time. Range mode: To search receivable channels in the setting range.
	Channel Skip		If a channel is set to SKIP, when scanning up/down channels the selected channel will be skipped.
	Analog Closed Caption		Set the analog closed caption value to OFF,CC1,CC2,CC3,CC4,TEXT1,TEXT2, TEXT3 and TEXT4.
	Digital Closed Caption		Set the digital closed caption value to OFF, Service1, Service2, Service3, Service4, Service5 and Service6.
	Digital Caption Style		To set the values of caption style.
	Block Channel		To setup the block channel.

2. Troubleshooting / Flow Charts

Note: Reseat all cables, check fuse by AC plug, perform a clear or reset in factory mode and retest before ordering parts.

Can't power on your TV?

This TV is equipped with a safety fuse. In the event of an electrical storm or power outage the safety fuse is designed to protect your TV. If your TV has no power, check the fuse by prying the cover off, following the illustration below. If the fuse is blown, visit your local hardware store and ask for a 4A 250V - 5x20mm Time Lag Fuse (Slow Blow) to replace the fuse.



Having trouble with setting your Parental Controls (V-Chip)?

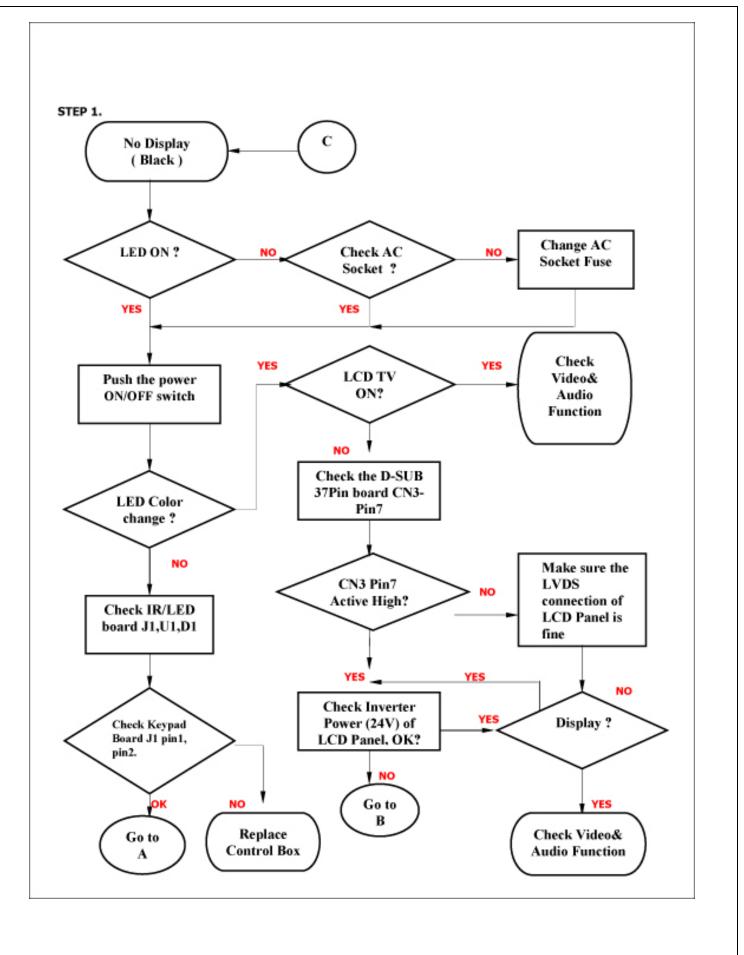
The factory preset password is 0000. This password must be used first before setting your own personal password. It is recommended that you keep your personal password in a safe place and away from children. In the event you loose your personal password the master password is 8202. The master password overrides all passwords. The master password can't be changed and should be kept in a safe place away from children.

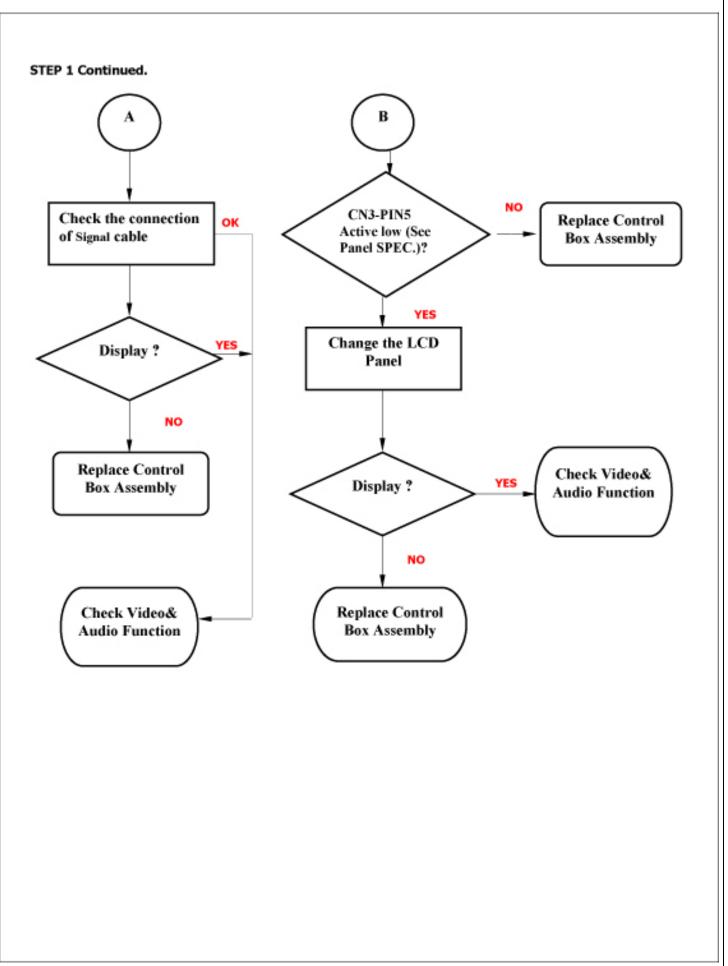
Having trouble with setting Picture-in-Picture settings?

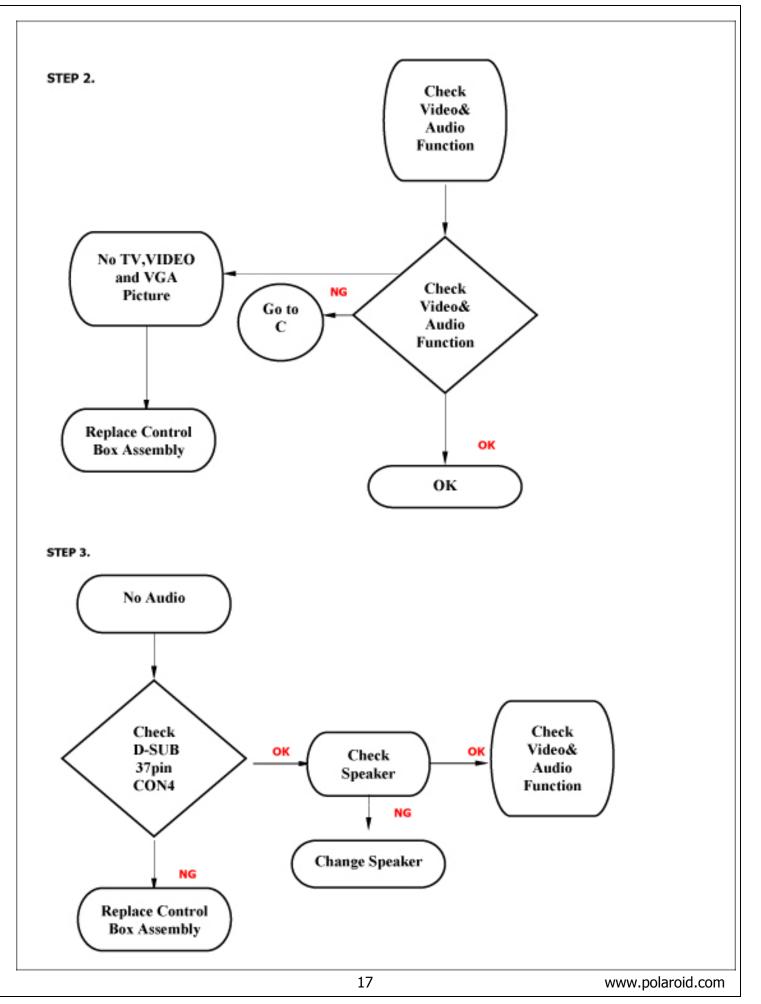
The Picture-in-Picture will not work using Component 1 and Component 2 as the input sources.

Factory Mode Procedure

- (1) Power on TV.
- (2) Press volume up and channel up buttons on the TV simultaneously and release.
- (3) Power off TV with remote or power button to exit.







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3. Polaroid Display Cell Defect Specification

In some cases, a panel may have defective cells that cannot be controlled.

These defective cells can be categorized into two types;

- (1) Non-lighting or dark cell defect: defect in which the cell is always off
- (2) Non-extinguishing or bright cell defect: defect in which the cell is always on

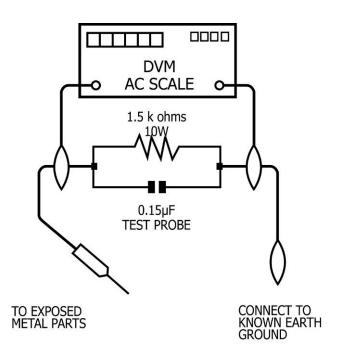
The <u>Polaroid Display Cell Defect Specifications</u> below define the allowed limits for display cell defects and are used as the criteria in determining whether an LCD panel is replaced.

<u>7 or more defective pixels across the entire LCD screen Polaroid will repair (replace LCD panel) or replace the TV.</u>

4. Before Returning This Product to the User

Before returning this product to the user, always perform the following safety checks:

- (4) Inspect all wiring to be sure no wires are pinched between the chassis or any metal parts.
- (5) Inspect all protective devices for proper installation, including non-metallic controls, insulation materials, cabinet backs, compartment covers, and shields.
- (6) Verify that no shock hazard exists on any part of the chassis, especially any metal components including cable connection points, chassis hardware, or antennas (if equipped). Use the following procedure:
 - a. Plug the AC cord directly into a 120 V AC outlet.
 - b. Create a test circuit consisting of a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μF capacitor.
 - c. Using an AC voltmeter (sensitivity of 5000 ohm per volt or higher), measure the voltage drop across the test circuit between all exposed metallic parts and a known earth ground. Measurement points include antenna, metal cabinet parts, screw heads, and metal knobs or controls. <u>Measurement points can vary slightly even between revisions of the same model, so always conduct a thorough review of the chassis to locate metal points that a user may touch.</u>
 - d. Any voltage reading of 0.375 Vrms AC (0.25 mArms) or higher indicates a potential shock hazard. THIS CONDITION MUST BE CORRECTED BEFORE RETURNING THE PRODUCT TO THE USER!
 - e. Repeat the above checks with the AC polarity reversed. A non-polarized adapter is required to reverse the polarity; DO NOT LEAVE THIS ADAPTER WITH THE USER! Under normal operation the product must use the proper polarity.



5. Disassembly Procedure



Note: Before disassembly of any part the TV, make sure the power is OFF, and the power cord is removed from the wall outlet. Allow time for power within all system boards to discharge before you begin disassembly. Never insert any objects into the vent holes in the TV case.



Note: Before returning this product to the end user, you must follow the steps outlined in the section, Before Returning This Product to the User, on page 19. This procedure ensures that the chassis will not cause electric shock.

When servicing an LCD or plasma TV, always observe the following safety guidelines:

- Wear a grounding (ESD) wrist strap, and use a grounded or dissipative work mat.
- Use a stable and strong work surface that is large enough to hold components you might remove.
- When removing components that are attached with a cable, unplug the cable before removing the screws to avoid damaging the cable.
- Use a magnetized screwdriver for removing screws.
- To help keep track of screws, place each component's screws next to the component on your work surface.

ELECTROSTATIC DISCHARGE (ESD)

Components inside an LCD or plasma TV are sensitive to static electricity. Before servicing the TV, follow these guidelines:

- Avoid static-causing surfaces such as carpeted floors, plastic, and packing foam.
- Remove replacement components from their antistatic bags only when you are ready to use them. Do
 not lay components on the outside of antistatic bags because only the inside of the bags provide
 electrostatic protection.
- Always hold components by their edges. Avoid touching the edge connectors. Never slide components over any surface.
- Wear a grounding wrist strap (available at most electronics stores) and attach it to a bare metal part of your workbench or other grounded connection.
- Touch a bare metal surface on your workbench or other grounded object before touching any components.

Stand and Control Box Removal – All Models

Lay TV flat on workbench. Be careful to protect the front bezel and LCD screen from being scratched. Use protective cloth between work bench and TV front.



Note: Before disassembly of any part the TV, make sure the power is OFF, and the power cord is removed from the wall outlet. Allow time for power within all system boards to discharge before you begin disassembly. Never insert any objects into the vent holes in the TV case.

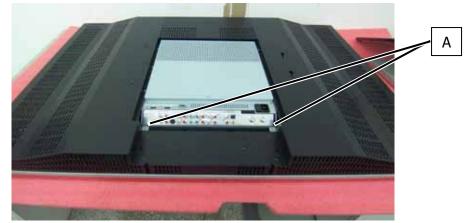
(1) Remove 6 screws (A) from the TV Stand.



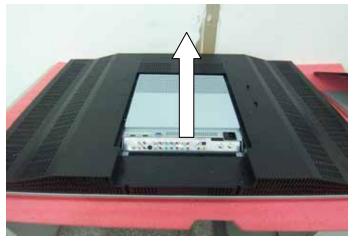
(2) Remove the screw (A) from the Control Box Cover, and remove the Cover from the TV.



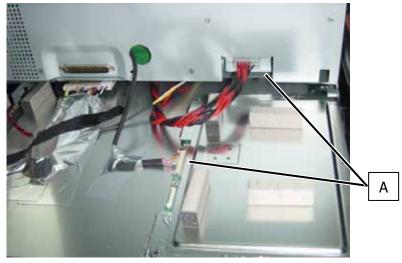
(3) Remove 2 screws (A) from the Control Box.



(4) Lift the Control Box upwards, and then towards to bottom of the TV to unhook it.



(5) Unplug the 2 cables (A) from the Control Box, and remove the Box from the TV.





Rear Cabinet Cover, LCD Panel and Front Bezel – FLM-4034B

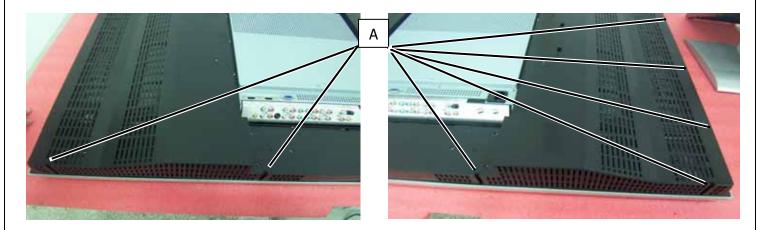


Note: Before disassembly of any part the TV, make sure the power is OFF, and the power cord is removed from the wall outlet. Allow time for power within all system boards to discharge before you begin disassembly. Never insert any objects into the vent holes in the TV case.

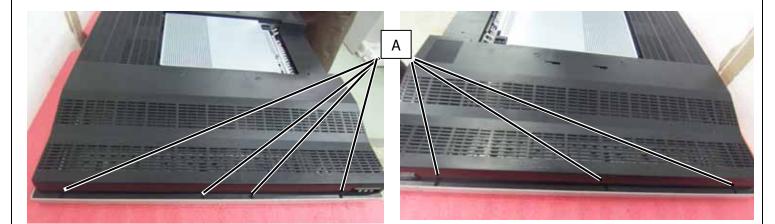


Note: OEM LCD panels were used in production. The following LCD panel disassembly/removal instructions may not apply to all models. Ensure LCD panel is completely detached from the bezel before removing so the bezel is not damaged.

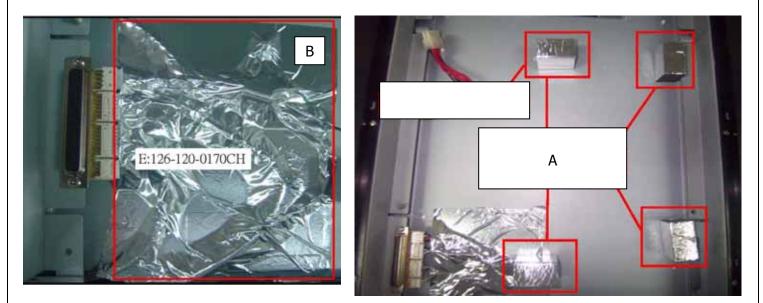
(1) Remove 7 screws (A) from the rear cabinet cover.



(2) Remove 7 screws (A) from the rear cabinet cover, and remove the rear cabinet cover from the TV.

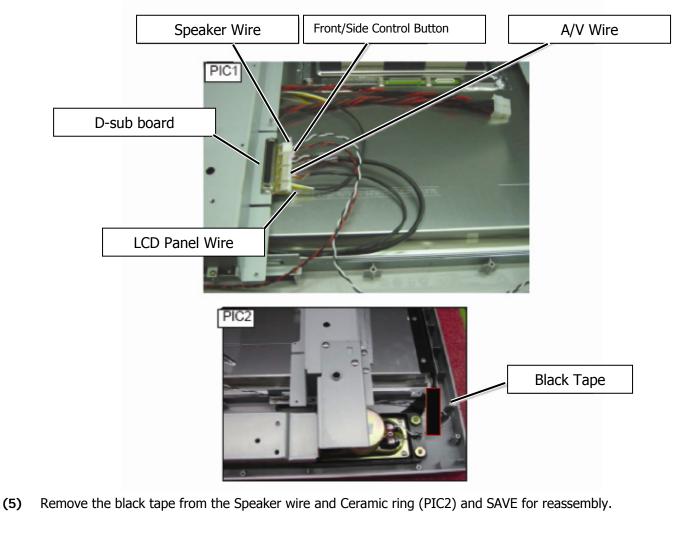


(3) Remove 4 EMI Foam Standoffs (A) and EMI Aluminum Foil Shielding Tape (B).

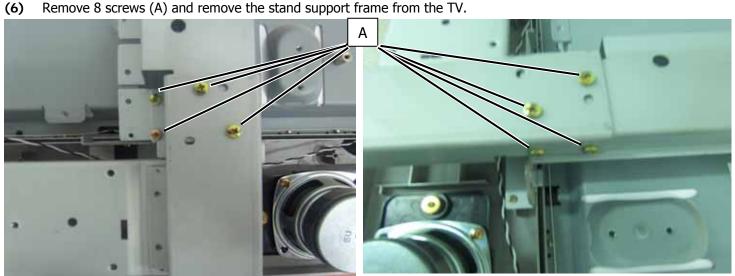


NOTE: You MUST re-install the EMI Foam Standoffs and EMI Aluminum Foil Shielding Tape when reassembling the TV.

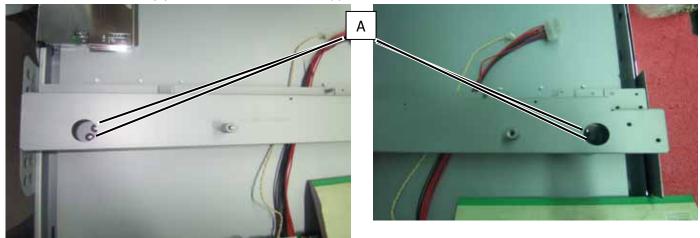
(4) From the D-sub board, remove the Speaker wires, Front/Side Control Button wire, LCD Panel wire, and A/V wire.



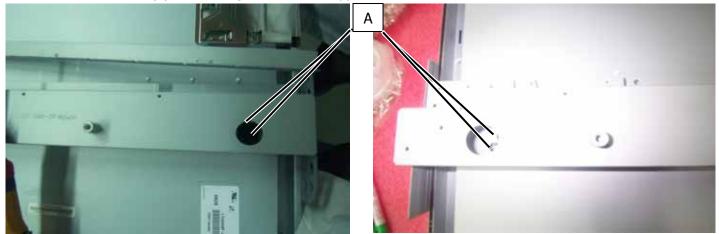
Remove 8 screws (A) and remove the stand support frame from the TV.



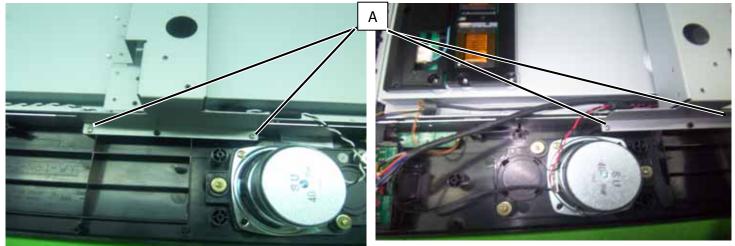
Remove 4 screws (A) from the left side frame support. (7)



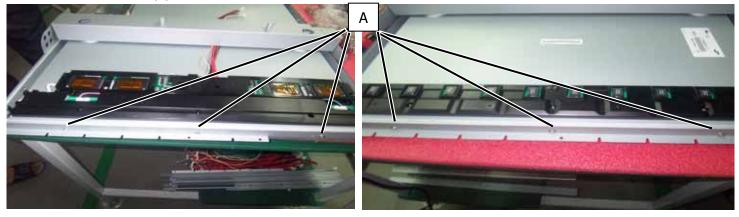
Remove 4 screws (A) from the right side frame support. (8)



(9) Remove 4 screws (A) from the bottom of the left and right side frame supports, and remove the frame supports from the TV.



(10) Remove 6 screws (A) from the LCD Panel, and remove it from the TV.



NOTE: To avoid damage, TWO PEOPLE ARE REQUIRED to lift the LCD Panel from the TV.



Rear Cabinet Cover, LCD Panel and Front Bezel – FLM-4232HM, FLM4234BH

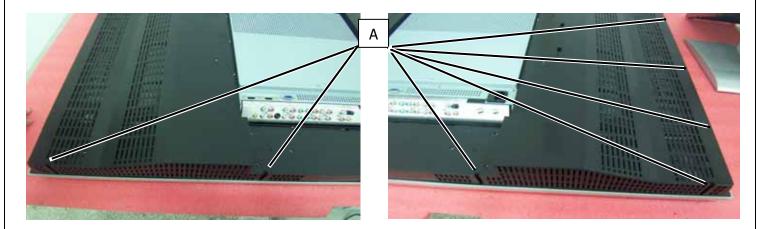


Note: Before disassembly of any part the TV, make sure the power is OFF, and the power cord is removed from the wall outlet. Allow time for power within all system boards to discharge before you begin disassembly. Never insert any objects into the vent holes in the TV case.

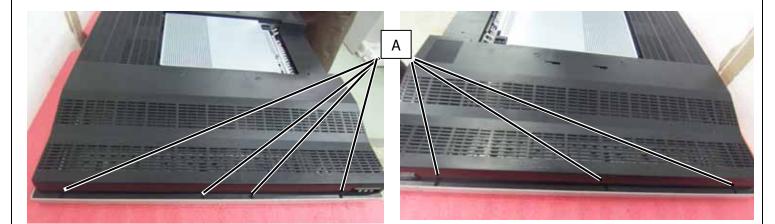


Note: OEM LCD panels were used in production. The following LCD panel disassembly/removal instructions may not apply to all models. Ensure LCD panel is completely detached from the bezel before removing so the bezel is not damaged.

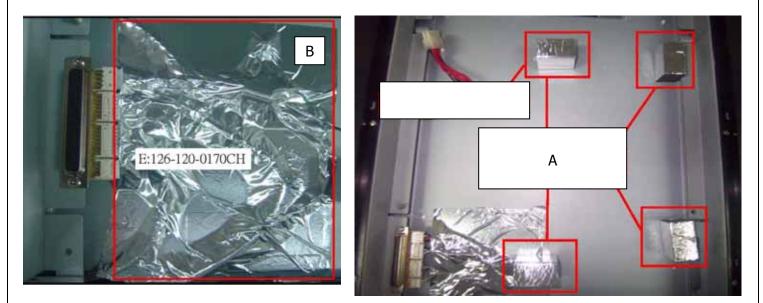
(1) Remove 7 screws (A) from the rear cabinet cover.



(2) Remove 7 screws (A) from the rear cabinet cover, and remove the rear cabinet cover from the TV.

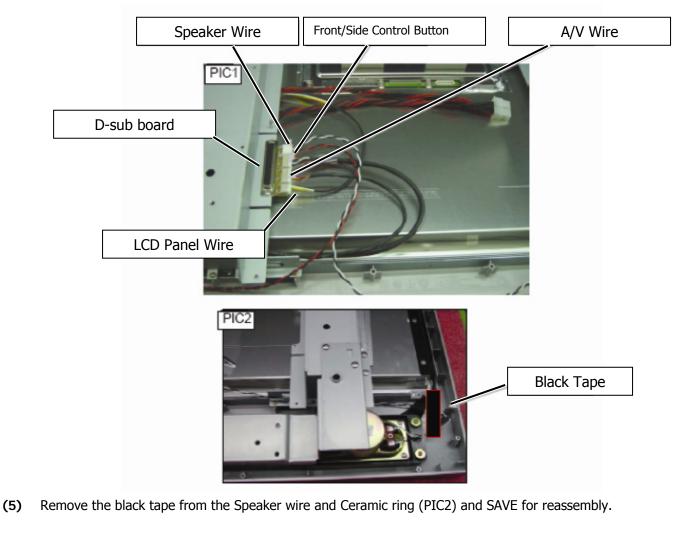


(3) Remove 4 EMI Foam Standoffs (A) and EMI Aluminum Foil Shielding Tape (B).



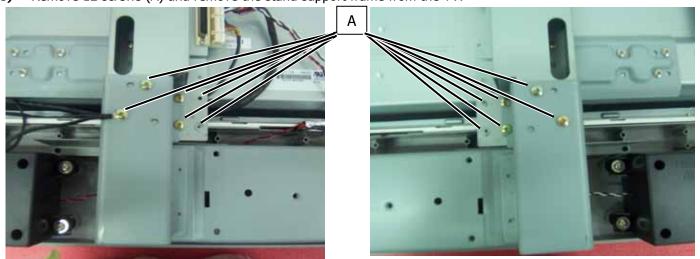
NOTE: You MUST re-install the EMI Foam Standoffs and EMI Aluminum Foil Shielding Tape when reassembling the TV.

(4) From the D-sub board, remove the Speaker wires, Front/Side Control Button wire, LCD Panel wire, and A/V wire.

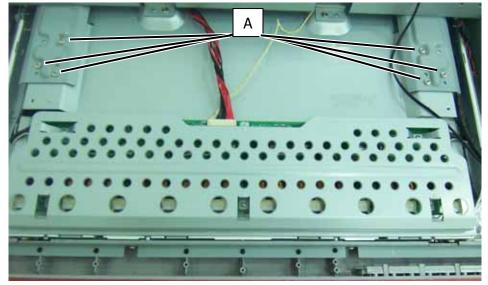


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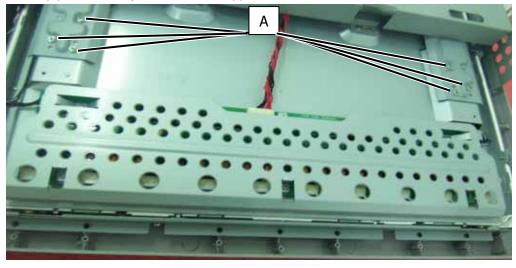
(6) Remove 12 screws (A) and remove the stand support frame from the TV.



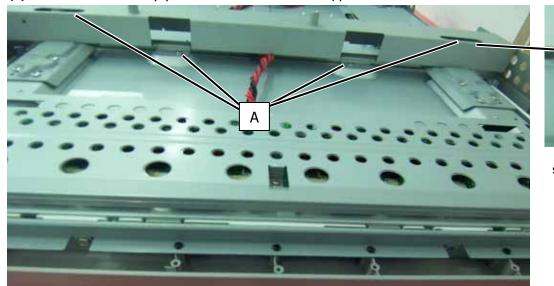
(7) Remove 6 screws (A) from the left side frame support.



(8) Remove 6 screws (A) from the right side frame support.



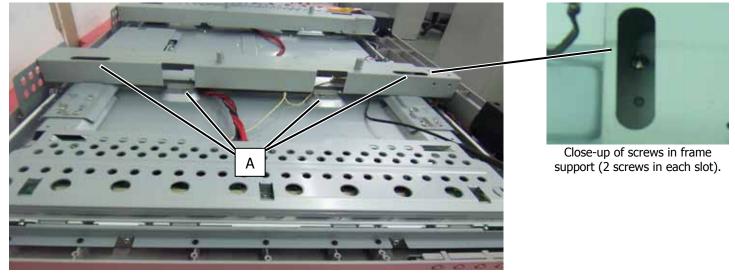
(9) Remove 6 screws (A) from the left side frame support.



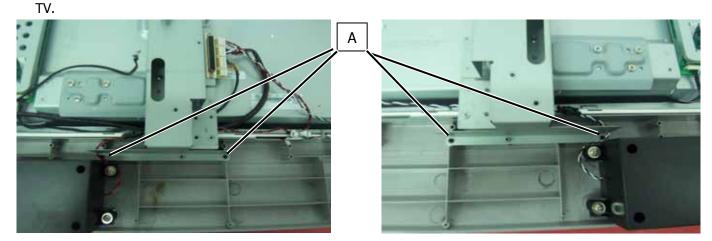


Close-up of screws in frame support (2 screws in each slot).

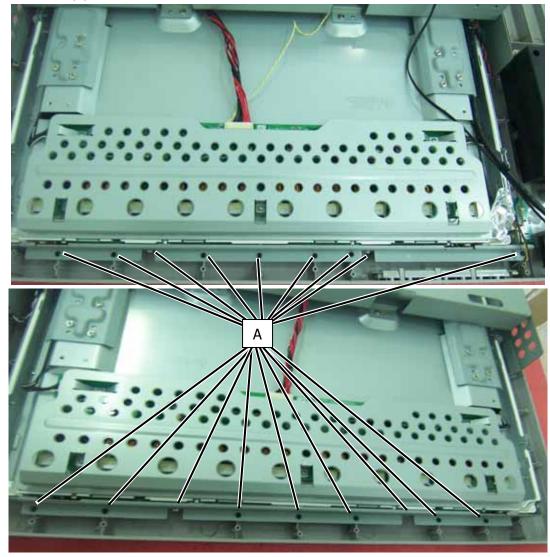
(10) Remove 6 screws (A) from the right side frame support.



(11) Remove 2 screws (A) from the left and right frame supports (4 total), and remove both frame supports from the



(12) Remove 18 screws (A) from the LCD Panel, and remove it from the TV.



NOTE: To avoid damage, TWO PEOPLE ARE REQUIRED to lift the LCD Panel from the TV.



A/V Board Removal and Replacement



Note: Before disassembly of any part the TV, make sure the power is OFF, and the power cord is removed from the wall outlet. Allow time for power within all system boards to discharge before you begin disassembly. Never insert any objects into the vent holes in the TV case.

- (1) Disassemble control box cover and rear cabinet cover and remove A/V assembly.
- (2) Using a small pair of wire cutters grip the side-locking tab and pivot back towards the A/V cable connector (PIC1). Locking tab should only pivot about 45 degrees. Do the same for the opposite side of the A/V assembly.
- (3) Slide out A/V board and replace (PIC2).
- (4) Push locking tabs in to secure replaced A/V board.

PIC1



PIC2





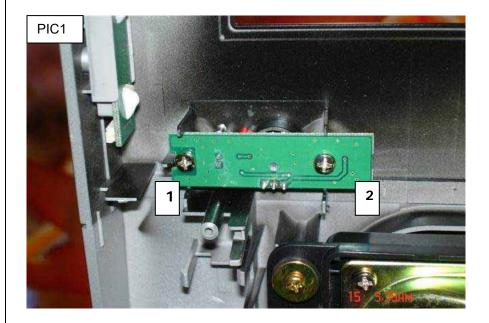
IR Board Removal and Replacement



Note: Before disassembly of any part the TV, make sure the power is OFF, and the power cord is removed from the wall outlet. Allow time for power within all system boards to discharge before you begin disassembly. Never insert any objects into the vent holes in the TV case.

- (1) Disassemble rear control box cover and rear cabinet cover.
- (2) 2. Remove screws 1 and 2 and replace IR board (PIC1).

PIC1





Front/Side Control Buttons Removal and Replacement



Note: Before disassembly of any part the TV, make sure the power is OFF, and the power cord is removed from the wall outlet. Allow time for power within all system boards to discharge before you begin disassembly. Never insert any objects into the vent holes in the TV case.

- (1) Disassemble control box cover and rear cabinet cover.
- (2) The control button board is attached with glue. Use alcohol to soften the glue and remove the control button board (PIC1).
- (3) Replace control button board and use glue to fasten to front bezel.





6. Spare Parts Lists

Attention Service Centers

A = January

B = February

C = March

D = April

E = May

F = June

G = July

H = August

J = September

Some models consist of parts with multiple versions. Replacement parts in the spare part lists with an asterisk (*) are multiple version parts. The TV serial number <u>Model Version</u> is used to identify the replacement part(s) needed for repair. Below is the Polaroid serial number format breakdown with a sample serial number. Reference the serial number format details below to identify the correct replacement part(s) before placing replacement part orders.

In the event the TV Model Version is not present in the part lists please review service bulletins for this model. Service bulletins can be obtained through your Polaroid service contact.

C 0 6 0 0 1 2 7 2 0 0 0 0 1 Month of Production Year of Production Model Version Model Version Unique 7 digit Serial Number Unique 7 digit Serial Number	SAMPLE SERIAL NUMBER FORMAT - DETAILS						
Model Version		0 6	0 0	0 1	2 7 2	0 0 0 0) 0 0 1
	Year of Production						
Non RoHS Serial Number Example - C0600012720000001 RoHS Compliant Serial Number Example - CR600012720000001 - the 0 in Year of Production is replaced with R.							

K = October

M = November

P = December

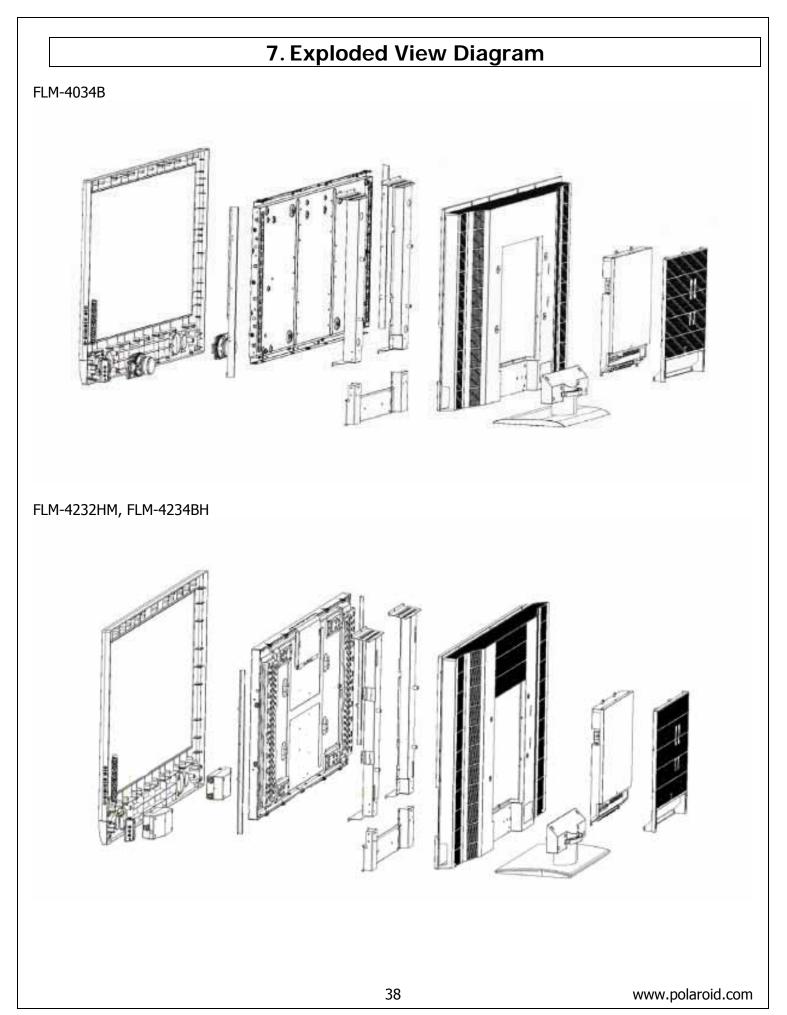
Note: Reseat all cables, check fuse by AC plug, perform a clear or reset in factory mode and retest before ordering parts.

Polaroid FLM-4034B				
Part Number	Description			
600-181-3200-LIH	AC Power Cord			
621-181-60002H	Audio Cable			
621-181-2000H	Composite Video Cable			
621-181-3020P-1H	Component Cable			
845-C45-GF1XA-PH	Remote Control			
909-KS0-GF401XA2H	Control Box Assembly (Samsung)			
899-K00-GF271XAH	Front/Side Control Button Bd.			
154-501-GF370-AH	Front/Side Control Button Cover Silver			
899-E00-GF271XAH	IR Board			
899-A00-GF271XAH	Front/Side A/V Input Bd.			
705-540-011SH	40" LCD Panel (Samsung)			
151-A01-FU68B7WH	Front Bezel Black/Silver (Samsung)			
151-001-FU67GH	Rear Cabinet Black			
154-004-GF32WH	Rear Cabinet Control Box Cover Black			
151-700-GF401XABH	Stand Assembly Silver			
824-015-GF321L-KH	Speaker (right or Left)			
631-030-JK401XAH	LVDS Cable (Samsung)			

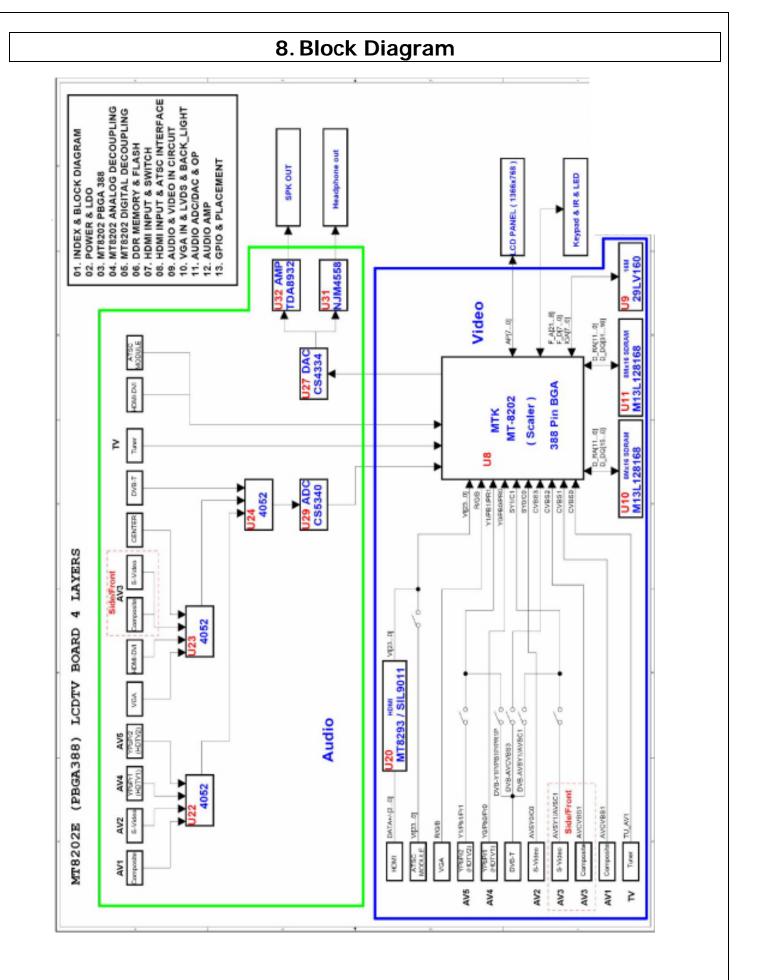
Polaroid FLM-4232HM				
Part Number	Description			
600-181-3200-LIH	AC Power Cord			
621-181-60002H	Audio Cable			
621-181-2000H	Composite Video Cable			
621-181-3020P-1H	Component Cable			
845-C45-GF1XA-PEH	Remote Control			
909-KJ1-GF421UA2H	Control Box Assembly (CMO L05)			
899-K00-GF271XAH	Front/Side Control Button Bd.			
154-501-GF370H	Front/Side Control Button Cover Silver			
899-E00-GF271XAH	IR Board			
899-A00-GF271XAH	Front/Side A/V Input Bd.			
705-542-001CH	42" LCD Panel (CMO L05)			
151-A01-FV18BUPCH	Front Bezel Black/Silver (CMO L05)			
151-001-FV17GH	Rear Cabinet Black			
154-004-GF32WH	Rear Cabinet Control Box Cover Black			
151-A01-FV18BUPCH	Front Bezel Black/Silver (CMO)			
824-020-A002H	Speaker (right or Left)			
631-030-GF421XA-CH	LVDS Cable (CMO L05)			
631-024-GF371-CH	Power Inverter Cable (LG) (CMO L05) (AUO V1)			
151-700-GF421UAH	Stand Assembly Silver CMO			

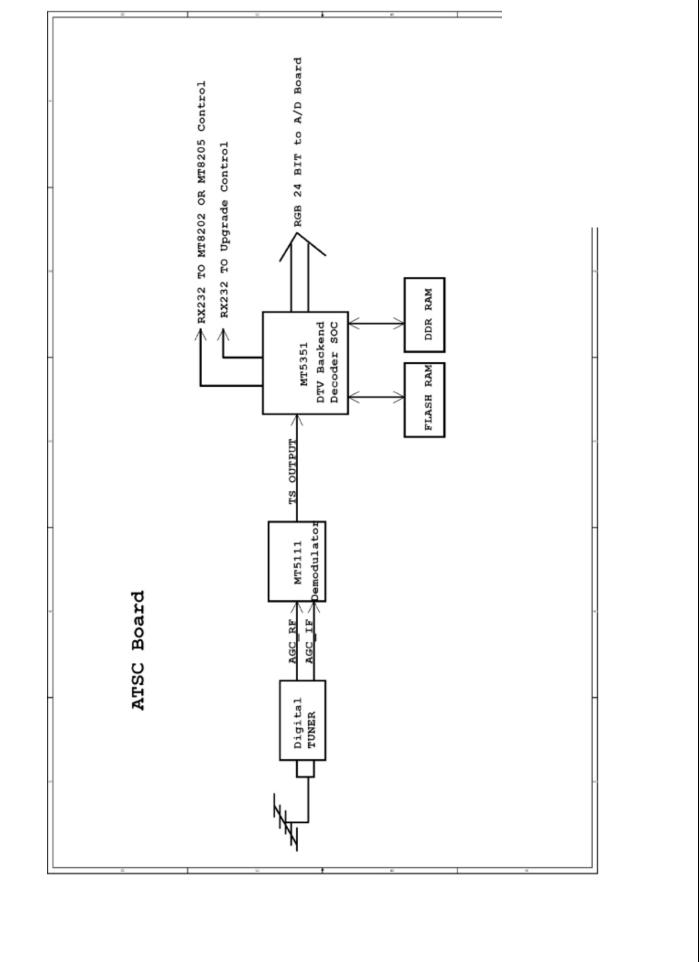
Polaroid FLM-4234BH				
Model Version*	Part Number	Description		
	600-181-3200-LIH	AC Power Cord		
	621-181-60002H	Audio Cable		
	621-181-2000H	Composite Video Cable		
	621-181-3020P-1H	Component Cable		
	845-C45-GF1XA-PH	Remote Control		
01	909-KJ0-GF421UA2H	Control Box Assembly (CMO L05)		
02	909-KL0-GF4211UA2H	Control Box Assembly (LG)		
	899-K00-GF271XAH	Front/Side Control Button Bd.		
	154-500-GF321H	Front/Side Control Button Cover Black		
	IR Board			
	899-A00-GF271XAH	Front/Side A/V Input Bd.		
01	705-542-001CH	42" LCD Panel (CMO L05)		
02	705-542-004LH	42" LCD Panel (LG)		
01	151-A01-FV18B7WCH	Front Bezel Black/Black (CMO L05)		
02	151-A01GF428B7WL0H	Front Bezel Black/Black (LG)		
	151-001-FV17GH	Rear Cabinet Black		
	154-004-GF32WH	Rear Cabinet Control Box Cover Black		
	151-700-GF421UABH	Stand Assembly Black		
	824-020-A002H	Speaker (right or Left)		
01	631-030-GF421XA-CH	LVDS Cable (CMO L05)		
02	631-030-GF421UA-LH	LVDS Cable (LG)		
	631-024-GF371-CH	Power Inverter Cable (LG) (CMO L05) (AUO V1)		

*Note: You must order parts for the correct Model Version. See "Attention Service Centers" on page 6 before ordering parts.

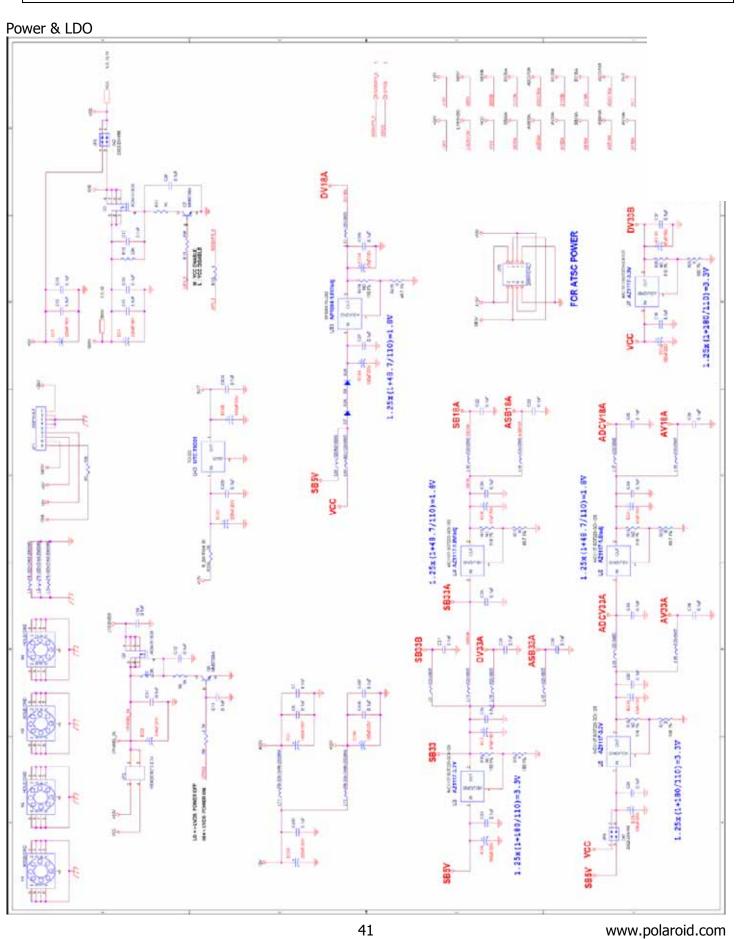


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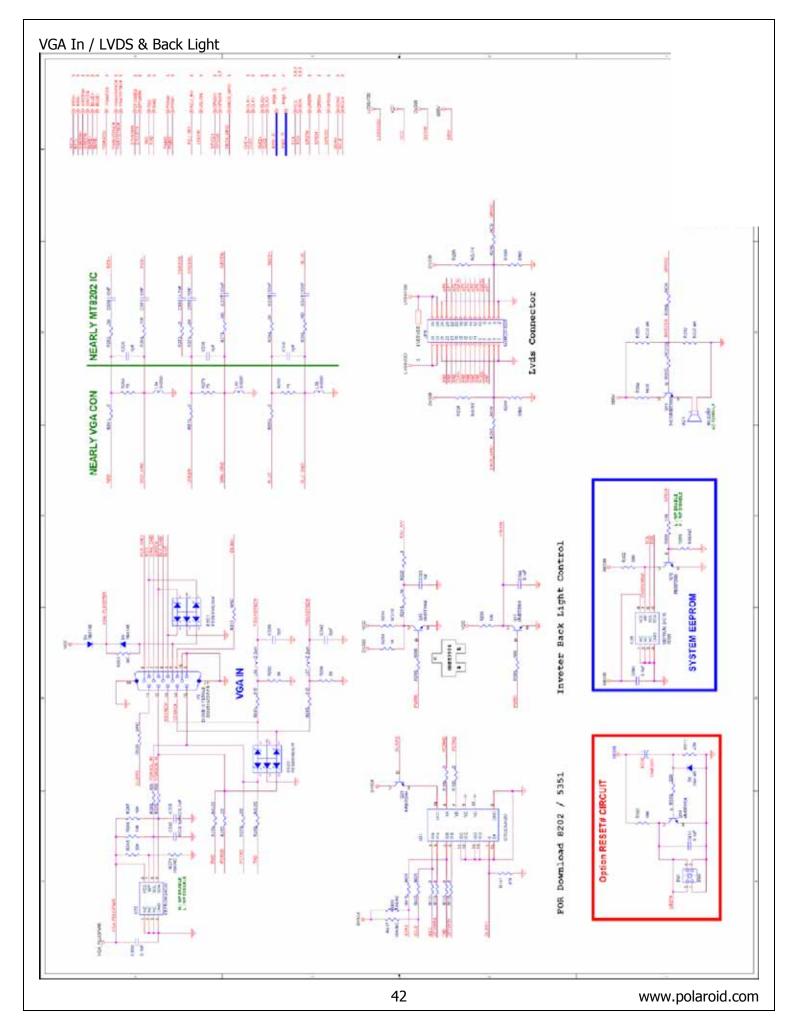




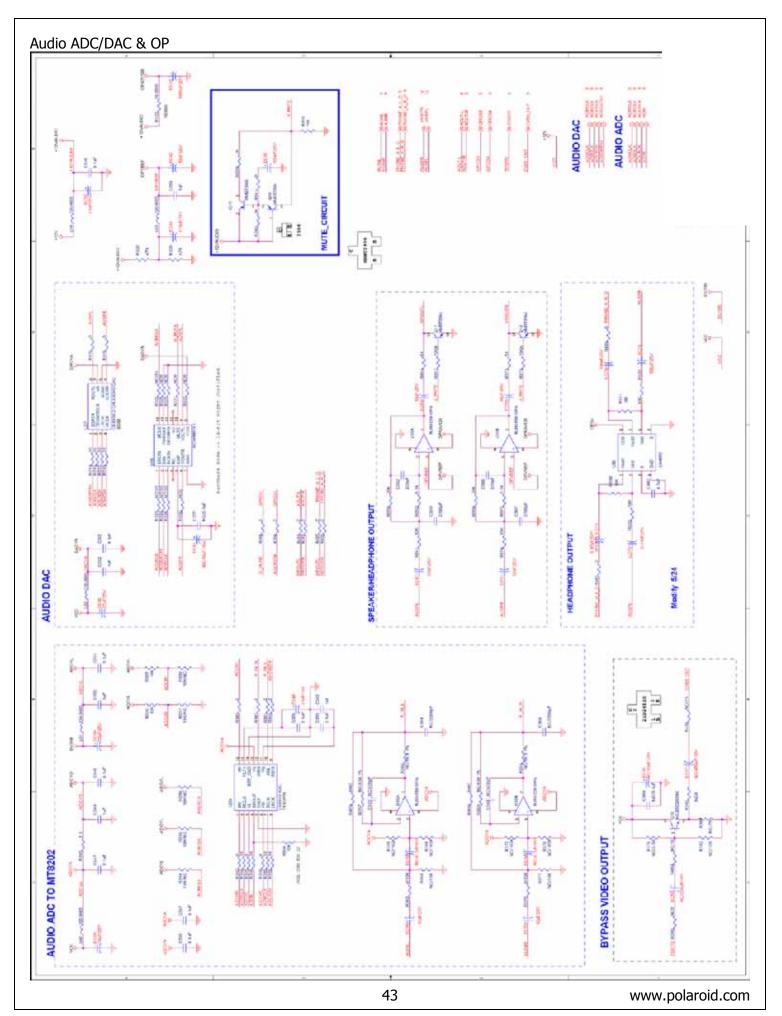
9. Schematics



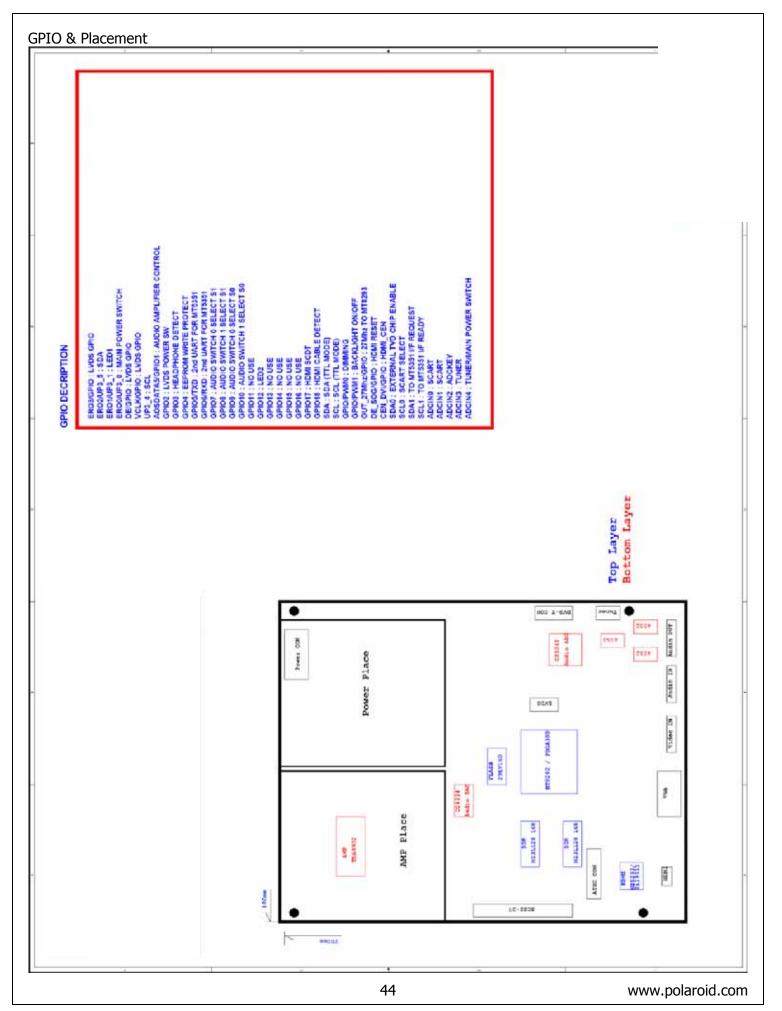
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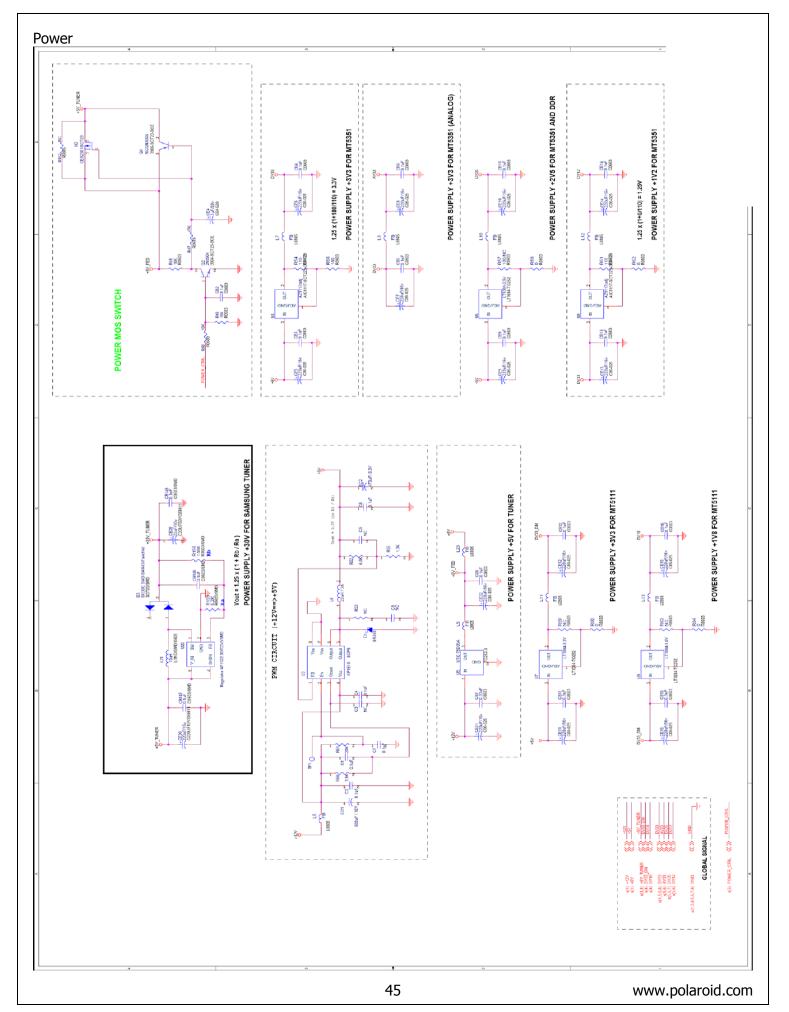
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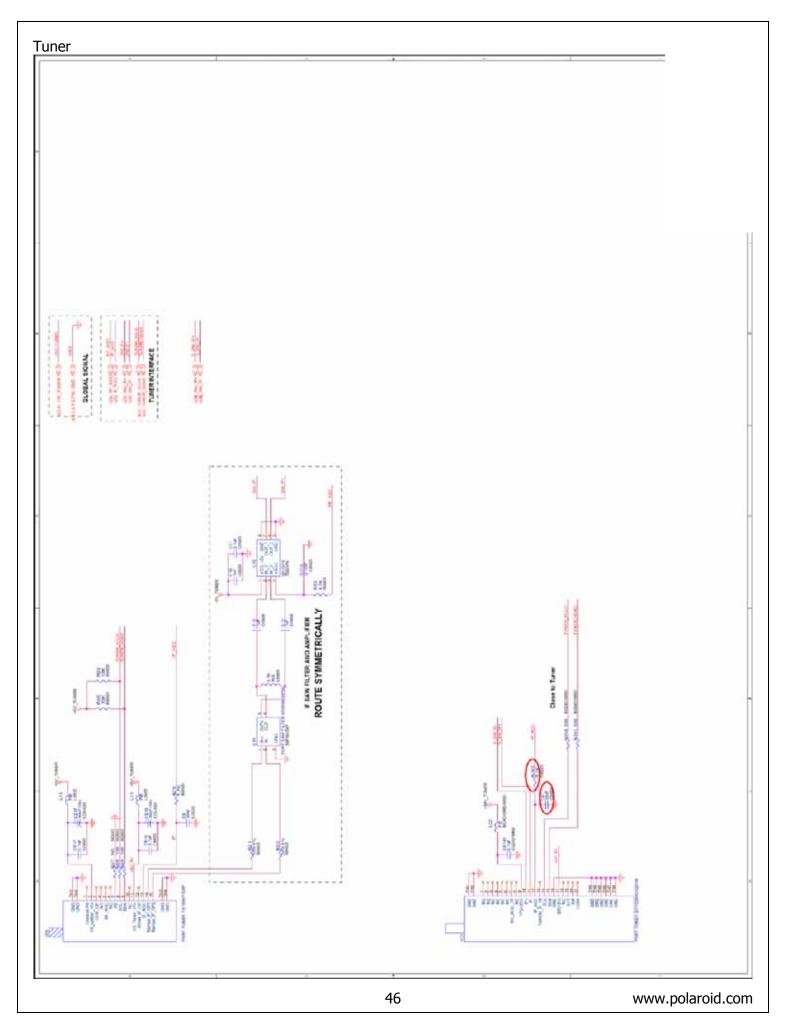
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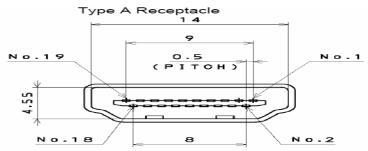


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HMDI connector is a type A receptacle for video/audio mode.



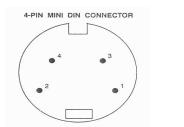
1. TMDS Data 2+	9. TMDS Data 0-	17. CEC/GND
2. TMDS Data 2 shield	10 . Clock +	18. +5V Power
3. TMDS Data 2-	11. Clock shield	19. Hot Plug Detect
4. TMDS Data 1+	12 . Clock -	
5. TMDS Data 1 shield	13 . CEC	
6. TMDS Data 1-	14. NC	
7. TMDS Data 0+	15. DDC CLK	
8. TMDS Data 0 shield	16. DDC DATA	

D-Sub Connector IN. (This function also can provides to HDTV.)

D-Sub type Connector pin assignment					
1. Red Video	6. Red Ground	11. GND			
2. Green Video	7. Green Ground	12. SDA For DDC1/2B			
3. Blue Video	8. Blue Ground	13. H-sync.			
4. GND	9. +5V from PC	14. V-sync.			
5. Vdd from PC for DDC	10. Sync. GND	15. SCL For DDC1/2B			

RCA jacks are all female type.

Mini DIN CNC 4 Pins (SCN570S3NS00000) for S-video, the pin assignment is described as below:

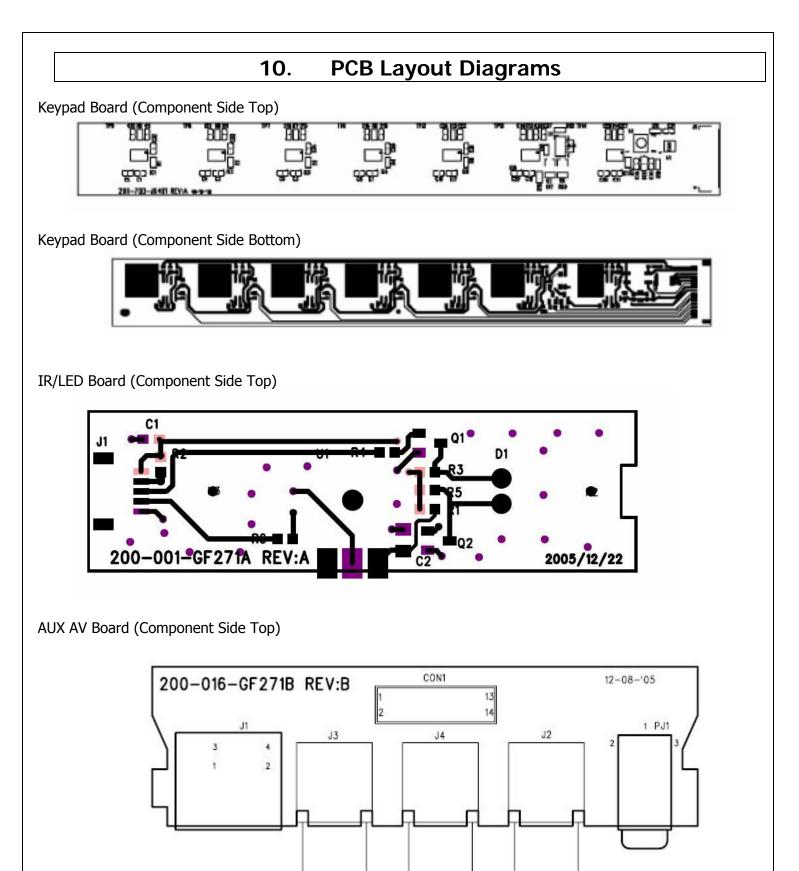


1: Ground 2: Ground 3: Y 4: C

		HDMI		
Format	DVI 1.0			
Level/Impedance	0.5~3.0Vp-p/100 Ohm (Differential),50 Ohm (Single ending)			
TMDS Mode	Single Link			
Frequency	$Fh = 31 \sim 80 \text{ kHz}$ $Fv = 56 \sim 76 \text{ Hz}$			
Maximum Pixel Clock	Fv = 56~76 Hz 135 MHz			
DDC 1/2B		ion 1 0		
Connector	Compliant with Revis	1011 1.0		
connector		E DC Signal (DC	•D)	
Format		5 PC Signal (RG	в)	
Level/Impedance	R, G, B Analog			
DDC 1/2B	0.7Vp-p / 75Ω	ian 1.0		
Sync	Compliant with Revis H/V separate	1011 1.0		
Sync	3V TTL level / 1kΩ			
Frequency	Fh = 31~80 kHz Fv = 56~76 Hz			
Maximum Pixel Clock	135 Mhz			
Connector	Mini D-Sub 15 pin (fe	emale) x 1		
		posite) CVBS Sig	inal	
Format	NTSC, 4.43NTSC, PA		•	
Level / Impedance	1.0Vp-p / 75Ω			
	• • •	leo (Y/C) Signal		
Format	Y, C			
Level / Impedance	Y: 1.0Vp-p / 75Ω			
	C: ± 286 mV/ 75Ω			
F	Analog HD15 Vide	U	Pr/YCbCr)	
Format	Y, Pb, Pr or Y, Cb, Cr			
Level / Impedance	Y: 1.0Vp-p / 75Ω Pb/Cb, Pr/Cr: 0.7 ± 0	.035Vp-p / 75Ω		
		IDMI Timing		
STANDARD	RESOLUTION	V FREQ Hz	H FREQ kHz	CLK MHz
ATSC, 480i	720x480	60	15.7	27
ATSC, 480p	720x480	60	31.5	27
ATSC, 1080i	1920x1080	60	33.7	74.2
ATSC, 720p	1280x720	60	45.0	74.2
ATSC, 576i	720x576	50	15.6	27

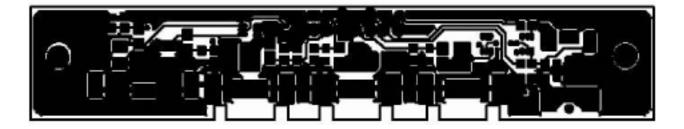
	R	GB PC Timing		
STANDARD	RESOLUTION	V FREQ Hz	H FREQ kHz	CLK MHz
VGA	640x480	60	31.47	25.16
VGA	640x480	75	37.5	31.5
SVGA	800x600	60	37.88	40
SVGA	800x600	75	46.9	49.5
XGA	1024x768	60	48.36	65.0
XGA	1024x768	75	60.02	78.75
SXGA	1280x1024	60	64	108
SXGA	1280x1024	75	80	135
MAC	640x480	67	35	30.24
Non-VESA	720x400	70	31.5	28
STANDARD	RESOLUTION	V FREQ	H FREQ	CLK
NTSC	525	Hz	kHz 15.734	<u>MHz</u> 12.65
PAL(B,G,H,D,I)	625	50	15.625	14.50
SECAM	625	50	15.625	14.50
4.43NTSC	525	60	15.734	12.65
	525	00	101/01	12:05
PAL-M	525	60	15.734	12.65
PAL-M PAL-N	525 625	60 50	15.734 15.625	12.65 14.50
	625	60 50 omponent AV Ti	15.625	12.65 14.50
PAL-N	625	50	15.625	
PAL-M PAL-N SDTV 525i SDTV 625i	625 HDTV/Co	50 pmponent AV Ti	15.625	14.50
PAL-N SDTV 525i SDTV 625i	625 HDTV/Co 720x525	50 pmponent AV Ti 60	15.625 iming 15.735	14.50 27
PAL-N SDTV 525i	625 HDTV/Co 720x525 720x625	50 pmponent AV Ti 60 50	15.625 iming 15.735 15.625	14.50 27 27

Power Source AC100 – 240 V, 60/50 Hz						
Sound Output 10W X2, 8 Ohm.						
Signal	Connector Pin A	ssignment				
		5 10 15			1	
Pin	Assignment		Pin	Assignment	Pin	Assignment
1.	Red		6.	Red Ground	11.	Ground
2.	Green		7.	Green Gro und	12.	SDA
3.	Blue		8.	Blue Ground	13.	Horizontal Sync.
4.	Ground		9.	Not Connected	14.	Vertica Sync.
			I		1	



D-SUB 37 Pin Board (Component Side Top)





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