Isolating audio problems in an AVR receiver
Using 6/8 Direct In

The following charts are used to help the tech quickly isolate audio problems in an AVR receiver. Use the following procedures to help find what is working, then to quickly locate the problem area.

Models covered:	
AVR210	AVR310
AVR220	AVR320
AVR520	AVR225
AVR125	AVR525
AVR130	AVR230
AVR330	AVR430
AVR630	

Equipment needed:

- ✓ 1 set of (RCA) Y adaptors.
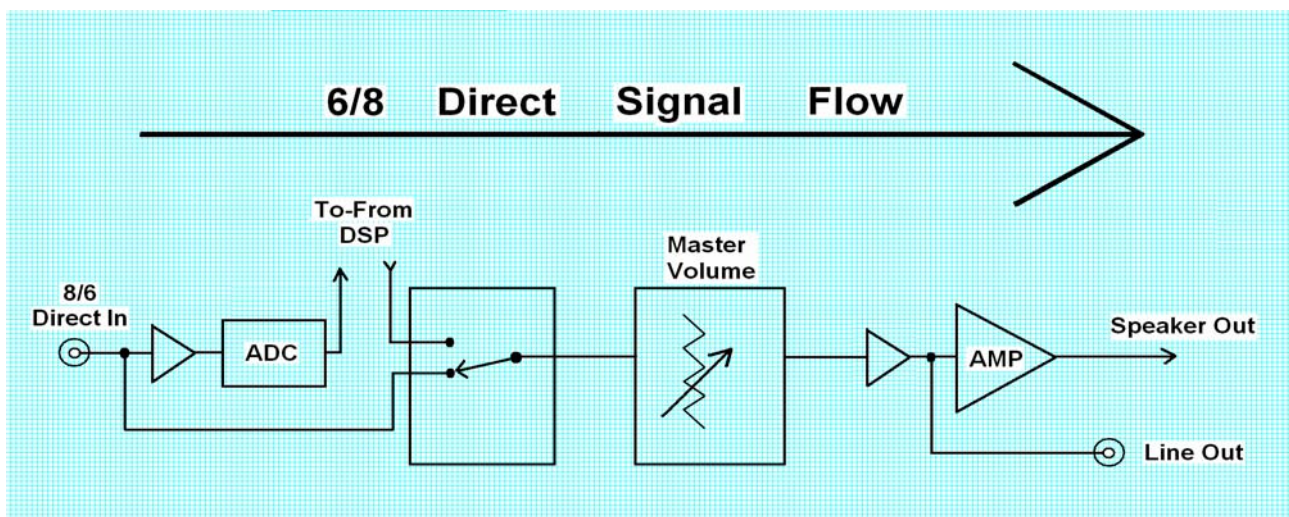- ✓ Function/signal generator.
- ✓ Oscilloscope.

Procedure:

1) Do a factory reset of the receiver. (This will eliminate any common micro processor problems.) Reset List can be found near the last page or check the service website; www.harmanservice.com for the latest info.

2) Print the block diagram from the service manual.

3) With no inputs or speakers attached to the AVR turn on the receiver and turn the volume all the way down.

4) Turn unit off.

5) Hook up an oscillator to the 6/8 Direct in jacks using the Y adaptors. Adjust the oscillator to about 0db (.775Volts RMS).

6) Hook up an oscilloscope to monitor the line out jacks. Or, if there are no line out (preamp out) jacks monitor the input to the power amps or the speaker outs. (AVR125, 225, 130 do not have preamp out jacks)

7) Turn the AVR on. Select 6 or 8 direct in, depending on the receiver.

8) Slowly turn the volume control up until you can easily measure the voltage at the line out jacks. (-40 to -25db)

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9)   At this point you will be able to check and assure all output levels are the same.

10)   IF THE OUTPUT LEVELS ARE NOT THE SAME <u>STOP</u>! Go no further. At this point you will need to use the charts to see where you are losing your signal. The chart shows the analog signal flow from the input jacks to the output jacks.

11)   If the output levels are the same check the power out stage at the speaker out jacks.

12)   If you find the levels at the speaker out jacks are OK, your problem will be in the DSP part of the receiver.

Congratulations! You have now eliminated 90% of the electronics in the AVR and confirmed that the problem is in the DSP section.

6/8   Direct   Signal   Flow

To-From DSP

Master Volume

8/6 Direct In

ADC

AMP

Speaker Out

Line Out

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AVR,210,310,510

6 CH IN	IC 501 In	IC 501 Out	CN 408	IC 704 In	IC704 Out	IC705 In	IC705 Out	IC706 In	IC 706 Out	IC 705 In	IC 705 Out	IC 716 In	IC716 Out	IC 717 In	IC 717 Out	IC 718 In	IC 718 Out	CP 405
FR	3	1	15	2	4	8	9	4	3	19	17	3	1					3
FL	5	7	13	27	25	21	20	25	26	10	12	5	7					1
SR			11	5	7		7	6						5	7			9
SL			9	24	22		22	23						3	1			7
C			5	21	19		19	20								3	1	5
SW			7	8	10		10	9								5	7	11

AVR220

6 CH IN	IC 501 In	IC 501 Out	CN 408	IC 704 In	IC704 Out	IC705 In	IC705 Out	IC706 In	IC 706 Out	IC714 In	IC714 Out	IC 705 In	IC 705 Out	IC 716 In	IC716 Out	IC 717 In	IC 717 Out	IC 718 In	IC 718 Out	CP 405
FR	5	7	15	2	4	8	9	4	3	5	7	10	12	5	7					1
FL	3	1	13	27	25	21	20	25	26	3	1	19	17	3	1					3
SR			11	5	7		7	6								5	7			9
SL			9	24	22		22	23								3	1			7
C			5	21	19		19	20										3	1	5
SW			7	8	10		10	9										5	7	11

AVR320/520

8 CH IN	IC 501 In	IC 501 Out	CN 408	IC 704 In	IC704 Out	IC705 In	IC705 Out	IC706 In	IC 706 Out	IC714 In	IC714 Out	IC 705 In	IC 705 Out	IC 716 In	IC716 Out	IC 717 In	IC 717 Out	IC 718 In	IC 718 Out	CP 405
FR	5	7	15	2	4	8	9	4	3	5	7	10	12	5	7					1
FL	3	1	13	27	25	21	20	25	26	3	1	19	17	3	1					3
SR			11	5	7		7	6								5	7			9
SL			9	24	22		22	23								3	1			7
C			5	21	19		19	20										3	1	5
SW			7	8	10		10	9										5	7	11

	CN418	CP102	IC101 In	IC101Out	IC102 In	ic102 oUT	ic103 IN	ic103 Out
SBR	3	3	3	4	21	23	5	7
SBL	1	1	25	26	4	2	3	1

AVR225/125

6 CH IN	IC 30 In	IC 30 Out	IC 31 In	IC 31 Out	IC 32 In	IC 32 Out	IC 33 In	IC 33 Out	IC 34 In	IC 34 Out	BN12	IC 81 In	IC 81 Out	IC 80 In	IC 80 Out	BN16 In	BN16 Out
L ch	27	25	19	20	5	7					1	3	1	9	10	1	2
R ch	24	22	22	23	3	1					3	5	7	15	14	4	5
SL	5	4	7	6					5	7	9						
SR	2	4	10	9					3	1	11						
C	8	18	4	3			3	1			7						
SW	21	19	25	26			5	7			5						

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AVR 525

In Jack	N404	P6	IC5 In	IC5 Out	IC3 In	IC3 Out	IC19 In	IC19 Out	IC18 In	IC20 In	IC20 Out	IC3	IC3 Out	IC18 Out	IC23 In	IC23 Out	IC25 In	IC25 Out	IC24 In	IC24 Out	IC26 In	IC26 Out	P9	N806
FL	1	1			10	9		4	2	3	1	3	5	3	1								1	1
FR	3	3			21	22		21	23	5	7	28	6	6	7								3	3
SL	5	5	2	4			4	3									3	1					5	5
SR	7	7	29	27			25	26									5	7					7	7
CTR	9	9	5	7			7	6											3	1			9	9
SW	11	11	26	24			22	23											5	7			11	11
SBL	13	13	8	10			10	9													3	1	13	13
SBR	15	15	23	21			19	20													6	7	15	15

AVR130

6 ch in	IC 23 In	IC 23 Out	IC 26 In	IC 26 Out	IC 42 In	IC42 Out	IC 44 In	IC 44 Out	IC 43 In	IC 43 Out	IC40 In	IC40 Out	IC49 In	IC49 Out	BN 12	BN11
L	18	17			21	23								1		
R	19	12			4	2										14
SL			24	22			21	23						9		
SR			5	7			4	2						7		
C			27	25					21	23				5		
SUB			2	4					4	2				3		
SBL			21	19							21	23	5	7	13	
SBR			8	10							4	2	3	1	11	

AVR230/330

6 ch in	IC 23 In	IC 23 Out	IC 26 In	IC 26 Out	IC 42 In	IC42 Out	IC 44 In	IC 44 Out	IC 43 In	IC 43 Out	IC40 In	IC40 Out	IC49 In	IC49 Out	BN 12	BN11
L	18	17			21	23								1		
R	19	12			4	2										14
SL			24	22			21	23						9		
SR			5	7			4	2						7		
C			27	25					21	23				5		
SUB			2	4					4	2				3		
SBL			21	19							21	23	5	7	13	
SBR			8	10							4	2	3	1	11	

AVR630/430

8 CH In	N404	IC3	IC3 Out	IC14 In	IC14 Out	IC12 In	IC12 Out	IC3 In	IC3 Out	IC27 In	IC27 Out	IC18 In	IC18 Out	IC20 In	IC20 Out	IC3 In	IC3 Out
FL	1	10	12	10	9	3	1	6	9	3	1	4	2	3	1	3	1
FR	3	19	17	19	20	5	7	23	20	5	7	21	23	5	7	26	7

	N404	IC5 In	IC5 Out	IC19 Out	IC19 Out	IC25 In	IC25 Out	IC24 In	IC24 Out	IC26 In	IC26 Out
SL	5	2	4	4	3	3	1				
SR	7	27	25	25	26	5	7				
CTR	9	5	7	7	6			3	1		
SW	11	24	22	22	23			5	7		
SBL	13	8	10	10	9					3	1
SBR	15	21	19	19	20					5	7

Quick Guide to h/k and JBL Microprocessor resets

In the rare case where the unit's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor.

NOTE: Resetting the processor will erase any configuration settings you or the customer have made for the product, e.g. speakers, output levels, surround modes, digital input assignments as well as the tuner presets. After a reset the unit will be returned to the factory presets, and any special settings for these items must be reentered.

harman/kardon		
Model	**Instructions**	**Comment**
AVR5	To reset the system, first turn the AVR5 off by pressing the **Main Power Switch** and then releasing it so that it extends out beyond the front panel and the word "OFF" is visible in red lettering at the top of the switch. Next, press and hold the **T•Mon** and **CD Input Selector** buttons on the front panel ONLY. While holding these buttons in, press the **Main Power Switch** in until it latches so that the button is flush with the front panel. The Information Display will briefly show the word **RESET**, and then return to normal operation.	
AVR35	To clear the AVR35's entire system memory, first turn the unit off by pressing and releasing the **Master Power Switch** so that it pops out from its normal recessed position. Next, press and hold the **Sleep** and the **Dolby Pro Logic** buttons while pushing the **Master Power Switch** in to turn the unit back on.	
AVR45	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR45's entire system memory, first turn the unit off by pressing and releasing the **Master Power Switch** so that it pops out from its normal recessed position. Next, press and hold the **AM/FM** and the **Dolby Pro Logic** buttons while pushing the **Master Power Switch** in to turn the unit back on.	
AVR65	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR65's entire system memory, first turn the unit off by pressing and releasing the **Master Power Switch** so that it pops out from its normal recessed position. Next, press and hold the **AM/FM** and the **Dolby Pro Logic** buttons while pushing the **Master Power Switch** in to turn the unit back on.	
AVR70/70II	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the system's memory, press and hold the **MEMO** and **CLEAR** buttons at the same time for a few seconds.	
AVR80/80II	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the system's memory, press and hold the **MEMO** and **CLEAR** buttons at the same time for a few seconds.	
AVR85	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the entire system memory of the unit, press and hold the **MEMO** and **CLEAR** buttons until **CLEAR MEMO** appears in the front panel display. Release the buttons and note that the unit will turn off and then on.	

AVR100	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 100's entire system, first turn the unit off by pressing and releasing the **Main Power Switch** so that it pops out from its normal recessed position. Next, press and hold the **CD** and **Vid 2** buttons while pushing in the **Main Power Switch** to turn the unit back on.	
AVR110	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 110's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the **Main Information Display**.	
AVR120	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 120's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR125	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system "reset" may clear the problem. To clear the AVR 125's entire system, first put the unit in Standby by pressing **the System Power Control Button**. Next, press and hold the **Tone Mode** button for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR130	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system "reset" may clear the problem. To clear the AVR 130's entire system memory , first put the unit in Standby by pressing the **Standby/On Switch** so that the Power Indicator turns amber. Next, press and hold the **Tone Mode** Button for three seconds. The unit will reset and then turn on automatically.	
AVR210	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 210's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR220	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 220's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR225	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system "reset" may clear the problem. To clear the AVR 225's entire system, first put the unit in Standby by pressing **the System Power Control Button**. Next, press and hold the **Tone Mode** button for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	

AVR230	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system "reset" may clear the problem. To clear the AVR 130's entire system memory , first put the unit in Standby by pressing the **Standby/On Switch** so that the Power Indicator turns amber. Next, press and hold the **Tone Mode** Button for three seconds. The unit will reset and then turn on automatically.	
AVR300	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 300's entire system, first turn the unit off by pressing and releasing the **Main Power Switch** so that it pops out from its normal recessed position. Next, press and hold the **AM/FM** and the **Dolby Pro Logic** buttons while pushing in the **Main Power Switch** to turn the unit back on.	
AVR310	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 310's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR320	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 320's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR325	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 325's entire system, first put the unit in Standby by pressing **the System Power Control** Button. Next, press and hold the **Surround Mode** and the **Tuner Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display.	
AVR330	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system "reset" may clear the problem. To clear the AVR 130's entire system memory , first put the unit in Standby by pressing the **Standby/On Switch** so that the Power Indicator turns amber. Next, press and hold the **Tone Mode** Button for three seconds. The unit will reset and then turn on automatically.	
AVR430	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 430's entire system memory, first put the unit in Standby by pressing the **Standby/On Switch**. Next, press and hold the **Surround Mode Group Selector** and the **Tuning Mode Selector** buttons for three seconds. The unit will turn on automatically and display the RESET message in the Upper part of the Display.	
AVR500	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 500's entire system, first turn the unit off by pressing and releasing the **Main Power Switch** so that it pops out from its normal recessed position. Next, press and hold the **AM/FM** and the **Dolby Pro Logic** buttons while pushing in the **Main Power Switch** to turn the unit back on.	

AVR510	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 510's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR520	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 520's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR525	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 525's entire system, first put the unit in Standby by pressing **the System Power Control** Button. Next, press and hold the **Surround Mode** and the **Tuner Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display.	
AVR55	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation.	
AVR630	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 430's entire system memory, first put the unit in Standby by pressing the **Standby/On Switch**. Next, press and hold the **Surround Mode Group Selector** and the **Tuning Mode Selector** buttons for three seconds. The unit will turn on automatically and display the RESET message in the Upper part of the Display.	
AVR7000	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 7000's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
AVR7200	To clear the AVR 7200's entire system memory, first put the unit in Standby by pressing the **System Power Control** Button. Next, press and hold the **Surround Mode Group Selector** and the **Tuner Mode Selector** buttons for three seconds. The unit will turn on automatically and display the RESET message in the Main Information Display.	
AVR8000	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the AVR 8000's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
CDR2	First unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation.	
CDR20	First unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation.	

CDR26	First unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation.	
CDR30	First unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation.	
DPR1001	To totally reset the DPR 1001's processor, follow these steps: Turn the unit completely off by pressing the **Main Power Switch** so that it is in the **OFF** position. Press and hold the **Tuning Mode Selector** and the **Tuning Button**, and at the same time press the **Main Power Switch** in so that it is in the **ON** position. When the Upper Display Line reads *RESET*, release the Tuning Mode Selector and Tuning Button. After a few seconds the unit will go into a display test mode that will illuminate all segments of the Main Information Display. Press the **Standby/On** Button to return the DPR to normal operation.	
DVD5	In Stand-by mode, press **SEARCH BACK** and **SKIP FORWARD** buttons on the Front Panel simultaneously for more than 3 seconds. The FL will then display 8 or 9 digit numbers. Disregard this read out. Reset the unit by pressing the **OFF** power button on the remote, or pushing the main power button on the unit.	Resets PARENTAL LOCK also
DVD25	Reset DVD 25 to the factory defaults when the player is in Standby by pressing and holding the **Clear** Button for six seconds	Resets PARENTAL LOCK also and default password to 8888.
DVD50	Reset the unit by first pressing the **Stop Button** to stop any disc that is playing. Next, press the **Stop Button** again and hold it for five seconds before releasing it. Turn the unit off and pause for a few seconds. When you turn the DVD 50 on again, the unit will be restored to the standard settings.	
FL8300	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. Clear the program by pressing the **OPEN/CLOSE** button or the **STOP/CLEAR** button over 4 seconds.	
FL8400	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. Clear the program by pressing the **OPEN/CLOSE** button or the **STOP/CLEAR** button over 4 seconds.	
FL8450	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. Clear the program by pressing the **OPEN/CLOSE** button or the **STOP/CLEAR** button over 4 seconds.	
HK3270	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, first turn the HK3270 off by pressing the **Main Power Switch** and then releasing it so that it extends out beyond the front panel and the word "OFF" is visible in red lettering at the top of the switch. Next, press and hold the **T•Mon** and **CD Input Selector** buttons on the front panel ONLY. While holding these buttons in, press the **Main Power Switch** in until it latches so that the button is flush with the front panel. The Information Display will briefly show the word **RESET**, and then return to normal operation.	
HK3370	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, first turn the HK3370 off by pressing the **Main Power Switch** and then releasing it so that it extends out beyond the front panel and the word "OFF" is visible in red lettering at the top of the switch. Next, press and hold the **T•Mon** and **CD Input Selector** buttons on the front panel ONLY. While holding these buttons in, press the **Main Power Switch** in until it latches so that the button is flush with the front panel. The Information Display will briefly show the word **RESET,** and then return to normal operation.	

HK3470	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, first turn the HK3470 off by pressing the **Main Power Switch** and then releasing it so that it extends out beyond the front panel and the word "OFF" is visible in red lettering at the top of the switch. Next, press and hold the **T•Mon** and **CD Input Selector** buttons on the front panel ONLY. While holding these buttons in, press the **Main Power Switch** in until it latches so that the button is flush with the front panel. The Information Display will briefly show the word **RESET**, and then return to normal operation.	
HK3375	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, first turn the HK3375 off by pressing the **Main Power Switch** and then releasing it so that it extends out beyond the front panel and the word "OFF" is visible in red lettering at the top of the switch. Next, press and hold the **T•Mon** and **CD Input Selector** buttons on the front panel ONLY. While holding these buttons in, press the **Main Power Switch** in until it latches so that the button is flush with the front panel. The Information Display will briefly show the word **RESET**, and then return to normal operation.	
HK3475	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, first turn the HK3270 off by pressing the **Main Power Switch** and then releasing it so that it extends out beyond the front panel and the word "OFF" is visible in red lettering at the top of the switch. Next, press and hold the **T•Mon** and **CD Input Selector** buttons on the front panel ONLY. While holding these buttons in, press the **Main Power Switch** in until it latches so that the button is flush with the front panel. The Information Display will briefly show the word **RESET**, and then return to normal operation.	
HK3380	To correct this problem, first unplug the unit from the AC wall outlet and wait at least thirty minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To reset the system, first turn the HK 3380 off by pressing the **System Power Control**. Next, press and hold the front-panel **Mute** Button for at least 4 seconds. The Main Information Display will briefly show the word **RESET**, and then return to normal operation.	
HK3480	To correct this problem, first unplug the unit from the AC wall outlet and wait at least thirty minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To reset the system, first turn the HK 3480 off by pressing the **System Power Control**. Next, press and hold the front-panel **Mute** Button for at least 4 seconds. The Main Information Display will briefly show the word **RESET**, and then return to normal operation.	
PA4000	To return the Turn-On Volume Level limit for any channel pair to the factory preset of –12dB, follow these steps individually for each channel pair to be adjusted: Place the **Power Control Mode Switch** to the far right, in the "ON/KEYPAD" position. Move the **Power Control Mode Switch** to the middle "MUSIC SENSE" position. Leave the **Power Control Mode Switch** in the MUSIC SENSE position for at least 4 seconds, to no more than 10 seconds. Return the **Power Control Mode Switch** to the "ON/KEYPAD" position.	Resets Volume Level limit Only; not a true system reset

Model	Instructions	Comment
Signature 2.0	The first step to correct this problem is to turn the 2.0 off using the **Master Power Switch** and unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and turn the unit on again. If the system still malfunctions, a system reset may clear the problem. To reset the system, press the **Menu** button to view the **Setup** Menu. Press the **Menu Control** button until **Advanced Setup** is highlighted. Press the **Menu Control** button to go to the next screen. At **the Advanced Settings** menu, press the **Menu Control** button twice until **SYSTEM RESET** is highlighted. Press the **Menu Control** button again. This will bring up the **System Reset** Menu. If you wish to exit at this point, press the **Menu** button. To proceed with the reset, press the **Menu Control** button to move the highlighted area to the **Yes** line, and then press the **Menu Control** button. The next screen instructs you to proceed by pressing and HOLDING the **Store** button until the reset is complete. Follow that instruction by holding the **Store** button until the Reset Completed message appears briefly on screen and the front panel **Information Display**. This is your indication that the reset has been accomplished, and you may release the **Store** button. The system will automatically return to the **Advanced Settings** menu. After a reset the system is returned to the original factory default settings, the microprocessor system is re-initialized. Press the **Menu** button twice to return to normal operation.	

JBL

Model	Instructions	Comment
DCR600	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the DCR600's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
DCR600II	To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To clear the DCR600II's entire system, first put the unit in Standby by pressing the **System Power Control** button. Next, press and hold the **Tone Mode** and the **FM Mode Selector** buttons for three seconds. The unit will turn on automatically and display the **RESET** message in the Main Information Display	
DVD600	In the event that you forget the password for the DVD600, you may reset it to the factory default by following this procedure: In Standby mode, press the **Search Back** and **Skip Forward** buttons on the front panel simultaneously for more than 3 seconds. The **Information Display** will light, and a test pattern will appear on your TV. Press **Power On** to proceed.	PASSWORD RESET ONLY
DVD600II	In the event that you forget the password for the DVD600II, you may reset it to the factory default by following this procedure: In Standby mode, press the **Search Reverse** and **Skip Forward** buttons on the front panel simultaneously for more than 3 seconds. The **Information Display** will light, and a test pattern will appear on your TV. Press the **System Power Control** to proceed.	PASSWORD RESET ONLY