

Service Manual

TV/DVD/VCR Combination



PV-DF204
 PV-DF2004
 PV-DF274
 PV-DF2704
 PV-DF2004-K
 PV-DF2704-K
 PV-DM2794

Subject : Change of DVD Unit

Please file and use this supplement manual together with the service manual for Order No. MKE0403600C1 and MKE0409602C1.

WARNING

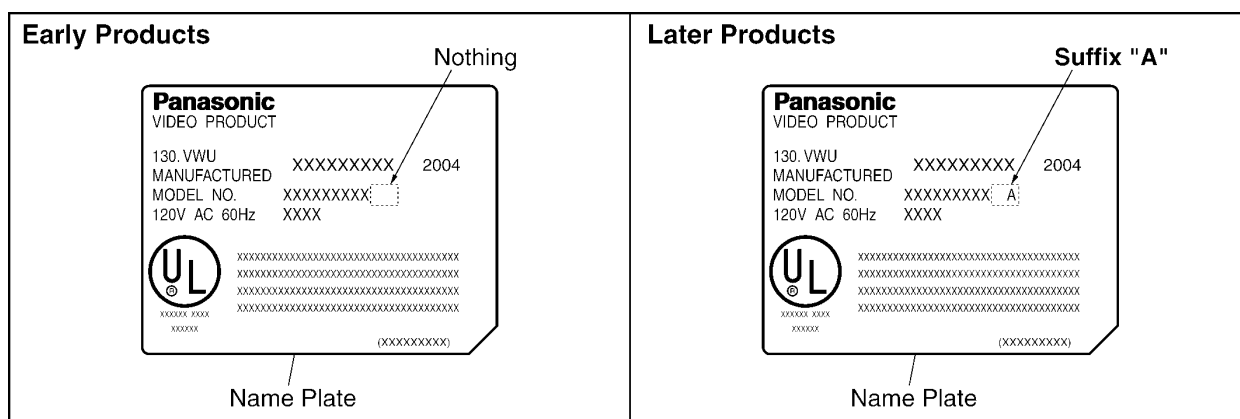
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1 CHANGE OF DVD UNIT

The DVD Unit has been changed on a running change basis. The DVD Block Unit is interchangeable. However, the parts which consists of the Block Unit are not interchangeable. In order to distinguish the service for the old and new DVD Unit, "A" indication will be added on the Serial No. Label and Name Plate. The unit using the new DVD Unit have "A" indication which is added at the end of the Model No. on the Name Plate (located on the Rear Cabinet).

When servicing these models, please check the Name Plate to see if an "A" has been added to the end of the Model No.

Service information for the New DVD Block Unit is in the supplement service manual.



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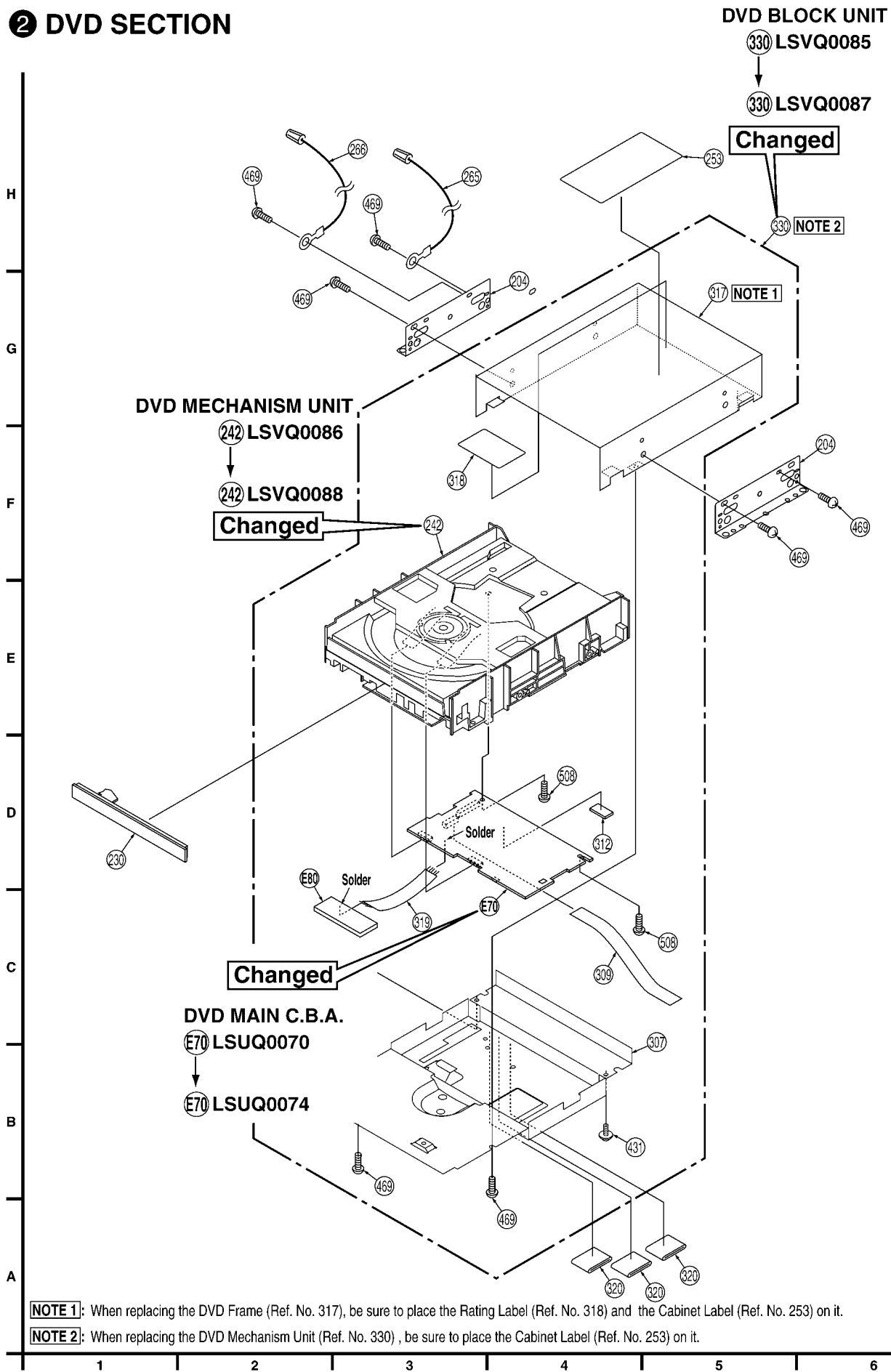
2 PART CHANGE INFORMATION

Part Change Information

Interchangeability Code: See the I/C column on the following Part Number List.											
	Parts/Set Production			Parts/Set Production			Parts/Set Production				
A	Original	→ Early	B	Original	→ Early	C	Original	→ Early	D	Original	→ Early
	New	→ Late		New	→ Late		New	→ Late		New	→ Late
E	Addition		F	Deletion		G	Other				
Part No.											
Ref. No.	Original Part No.		New Part No.		Part Name			I/C	Remarks		
242	LSVQ0086		LSXK0184		DVD MECHANISM UNIT			D			
318	LSQL1590		LSQL1705		RATING LABEL E			D			
319	LSJW0029		LSJW0089		FILEXIBLE FLAT CABLE W/OUT PLUG			D			
330	LSVQ0085		LSVQ0087		DVD BLOCK UNIT			A			
431	XTV26+6F		XTV26+6FFJ		TAPPING SCREW,STEEL			D			
469	XSN3+6		XSN3+6FJ		SCREW,STEEL			D			
508	XTV26+6J		XTV26+6JFJ		TAPPING SCREW,STEEL			D			
E70	LSUQ0070		LSUQ0074		DVD MAIN C.B.A.			D			
E80	LSEP2014A		LSEP2187A		DVD SUB C.B.A.			D			

3 EXPLODED VIEWS

2 DVD SECTION



4 SERVICE NOTES (PLEASE READ)

4.1. SERVICE NOTES

4.1.1. DVD SERVICE MODE

This unit has a Self-Diagnostic function which detects a problem or malfunction within the unit and displays it on the TV screen.

4.1.1.1. How to enter DVD Service Mode

1. Set the unit to DVD mode.
2. Press and hold the STOP/EJECT, PLAY/REPEAT, and VOL - buttons of the VCR operation panel together for over 5 seconds with no cassette inserted. The adjustment overlay will appear on the TV screen.

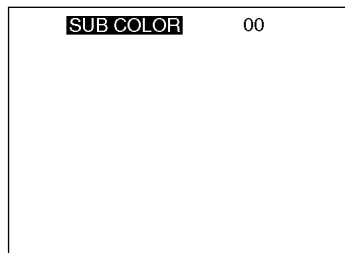


Fig. 5-1

3. Press the DISPLAY key on the remote control to enter DVD Service Mode I.

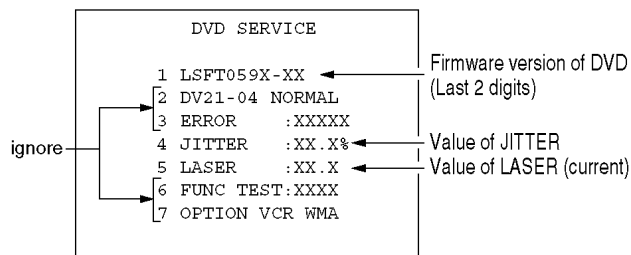


Fig. 5-2

4. Press the LEFT or RIGHT key on the remote again to enter DVD Service Mode II.

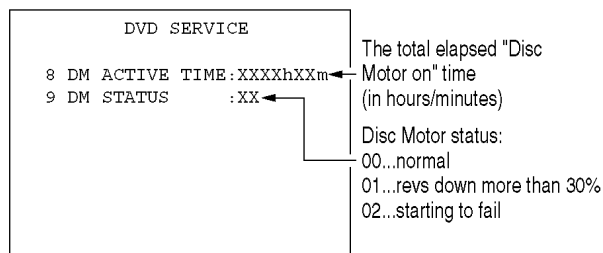


Fig. 5-3

Note:

- a. After replacing the DVD Unit, press the CLEAR key on the remote in this mode. The total elapsed "Disc Motor on" time (in hours/minutes) will be cleared to 0.
- b. If 01 or 02 is always displayed in 9 DM STATUS, replace the DVD Unit because the Disc Motor is defective.

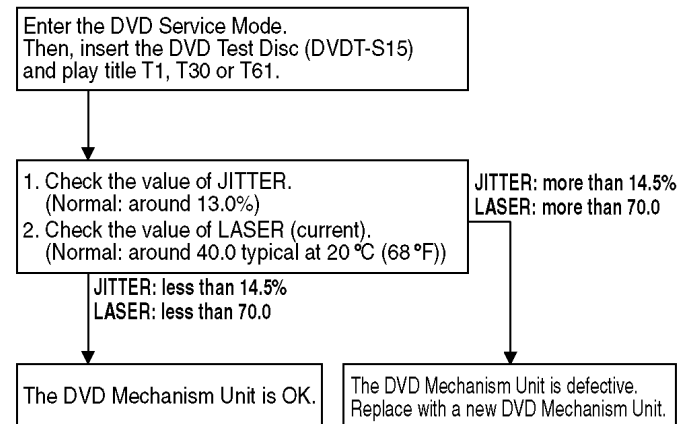
5. To confirm the value of JITTER and the value of LASER

(current), insert the DVD Test Disc into the DVD Unit.

6. To release from this mode, turn off the power.

4.1.1.2. Troubleshooting hint (standard) for this mode

It can be determine whether the DVD Mechanism Unit is defective by checking the value of JITTER and the value of LASER (current).



5 DISASSEMBLY/ASSEMBLY PROCEDURES

5.1. CABINET SECTION

5.1.1. Disassembly Flowchart

5.1.1.1. Notes in chart

1. Removal of DVD Sub C.B.A.

- Remove solder portions "a, b, c, d, e, f, g, h, j" on the DVD Sub C.B.A.
- Remove the DVD Sub C.B.A. while releasing the Locking Tab.

Installation of DVD Main C.B.A. and DVD Sub C.B.A.

- Confirm that the Lever A is positioned as shown, and install the DVD Sub C.B.A. with the Locking Tab and 2 bosses.
- Install the DVD Main C.B.A. with the Locking Tab and the rib.
- Pass the leads through the slots A and B.
- Solder portions "a, b, c, d, e, f, g, h, j, k" on the C.B.A.

Note:

- Solder portions "h" and "j" while pushing down the DVD Sub C.B.A. securely.
- Connect the F.F.C.s to Connector P8901 on the DVD Main C.B.A., and bend it as shown.
 - Tighten the 2 Screws (508).

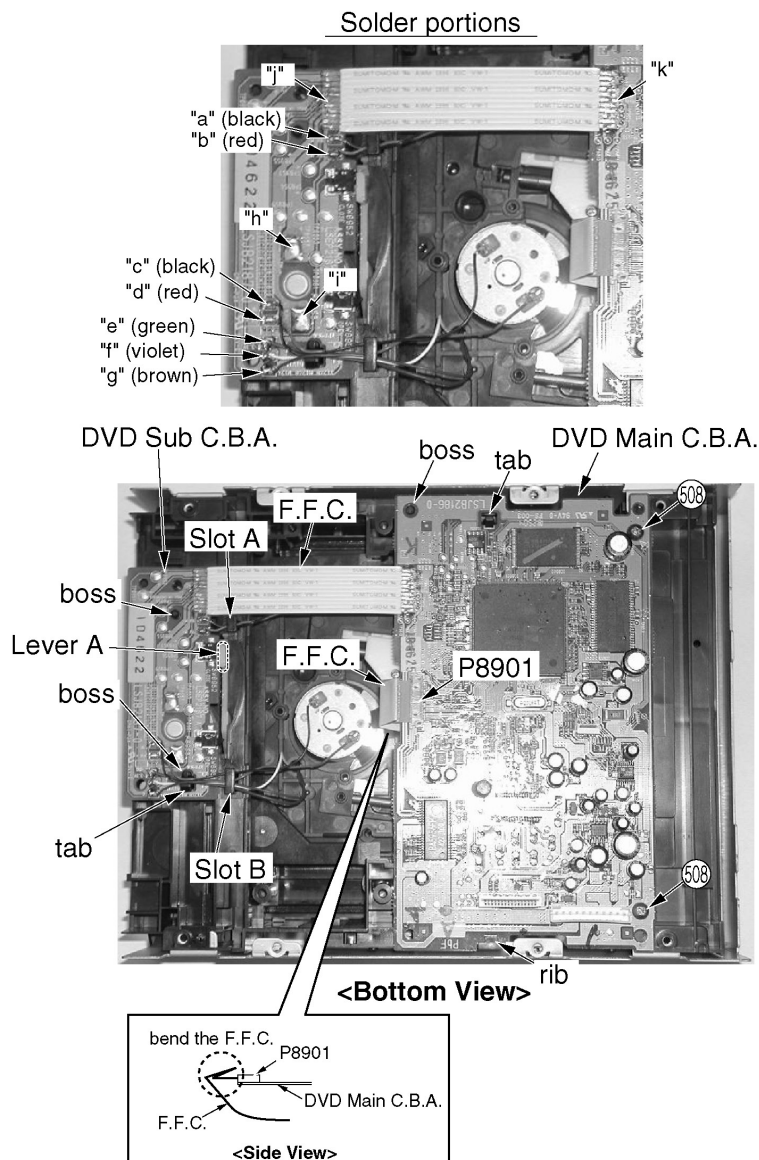
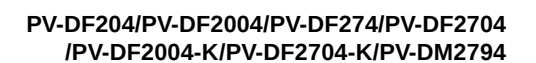


Fig. D7

6.1. DVD MAIN / DVD SUB / FG SCHEMATIC DIAGRAMS

NOTE:
PARTS MARKED "PT" ARE NOT USED.

NOTE: For placing a purchase order of the parts, be sure to use the part number listed in the parts list. Do not use the part number on this diagram.



I/O CHART OF IC8002

Pin No.	I/O	Signal Name	Description
1	I	A15	Memory address 16
2	I	A14	Memory address 15
3	I	A13	Memory address 14
4	I	A12	Memory address 13
5	I	A11	Memory address 12
6	I	A10	Memory address 11
7	I	A9	Memory address 10
8	I	A8	Memory address 9
9	I	NC	Memory address 20
10	I	NC	Memory address 21
11	I	/WE	Write enable : low
12	I	/RST	Reset : low
13	-	NC	(Not used)
14	-	VPP/WP	(Not used)
15	I	RDY/BSY	DVD Ready (Busy : low)
16	I	A18	Memory address 19
17	I	A17	Memory address 18
18	I	A7	Memory address 8
19	I	A6	Memory address 7
20	I	A5	Memory address 6
21	I	A4	Memory address 5
22	I	A3	Memory address 4
23	I	A2	Memory address 3
24	I	A1	Memory address 2
25	I	A0	Memory address 1
26	I	/CE	Memory chip select : low
27	-	VSS	Ground
28	I	/OE	Output enable : low
29	I/O	DQ0	Memory data 0
30	I/O	DQ8	Memory data 8
31	I/O	DQ1	Memory data 1
32	I/O	DQ9	Memory data 9
33	I/O	DQ2	Memory data 2
34	I/O	DQ10	Memory data 10
35	I/O	DQ3	Memory data 3
36	I/O	DQ11	Memory data 11
37	I	VCC	+3.3V
38	I/O	DQ4	Memory data 4
39	I/O	DQ12	Memory data 12
40	I/O	DQ5	Memory data 5
41	I/O	DQ13	Memory data 13
42	I/O	DQ6	Memory data 6
43	I/O	DQ14	Memory data 14
44	I/O	DQ7	Memory data 7
45	I/O	DQ15A-1	Memory data 15
46	-	VSS	Ground
47	I	/BYTE	+3.3V
48	I	A16	Memory address 16

I/O CHART OF IC8003

Pin No.	I/O	Signal Name	Description
1	I	VDD	+3.3V
2	I/O	DQ0	SDRAM data 0
3	I	VDDQ	+3.3V
4	I/O	DQ1	SDRAM data 1
5	I/O	DQ2	SDRAM data 2
6	-	VSSQ	Ground
7	I/O	DQ3	SDRAM data 3
8	I/O	DQ4	SDRAM data 4
9	I	VDDQ	+3.3V
10	I/O	DQ5	SDRAM data 5
11	I/O	DQ6	SDRAM data 6
12	-	VSSQ	Ground
13	I/O	DQ7	SDRAM data 7
14	I	VDD	+3.3V
15	I	LDQM	Data input/output mask
16	I	/WE	Write enable : low
17	I	/CAS	Column address strobe : low
18	I	/RAS	Row address strobe :low
19	I	/CS	SDRAM chip select : low
20	I	BA0	Bank address 0
21	I	BA1	Bank address 1
22	I	A10/AP	SDRAM address 10
23	I	A0	SDRAM address 0
24	I	A1	SDRAM address 1
25	I	A2	SDRAM address 2
26	I	A3	SDRAM address 3
27	I	VDD	+3.3V
28	-	VSS	Ground
29	I	A4	SDRAM address 4
30	I	A5	SDRAM address 5
31	I	A6	SDRAM address 6
32	I	A7	SDRAM address 7
33	I	A8	SDRAM address 8
34	I	A9	SDRAM address 9
35	I	A11	SDRAM address 11
36	-	NC	(Not used)
37	-	CKE	(Not used)
38	I	CLK	SDRAM clock
39	I	UDQM	Data input/output mask
40	-	NC/RFU	(Not used)
41	-	VSS	Ground
42	I/O	DQ8	SDRAM data 8
43	I	VDDQ	+3.3V
44	I/O	DQ9	SDRAM data 9
45	I/O	DQ10	SDRAM data 10
46	-	VSSQ	Ground
47	I/O	DQ11	SDRAM data 11
48	I/O	DQ12	SDRAM data 12
49	I	VDDQ	+3.3V
50	I/O	DQ13	SDRAM data 13
51	I/O	DQ14	SDRAM data 14
52	-	VSSQ	Ground
53	I/O	DQ15	SDRAM data 15
54	-	VSS	Ground

I/O CHART OF IC8004

Pin No.	I/O	Signal Name	Description
1	-	A0	(Not used)
2	-	A1	(Not used)
3	-	A2	(Not used)
4	-	VSS	Ground
5	I/O	SDA	Serial data
6	I	SCL	Serial clock
7	-	WP	Write protect
8	I	VCC	+3.3V

I/O CHART OF IC8002, IC8003, IC8004

PV-DF204/PV-DF2004/PV-DF274/PV-DF2704
/PV-DF2004-K/PV-DF2704-K/PV-DM2794

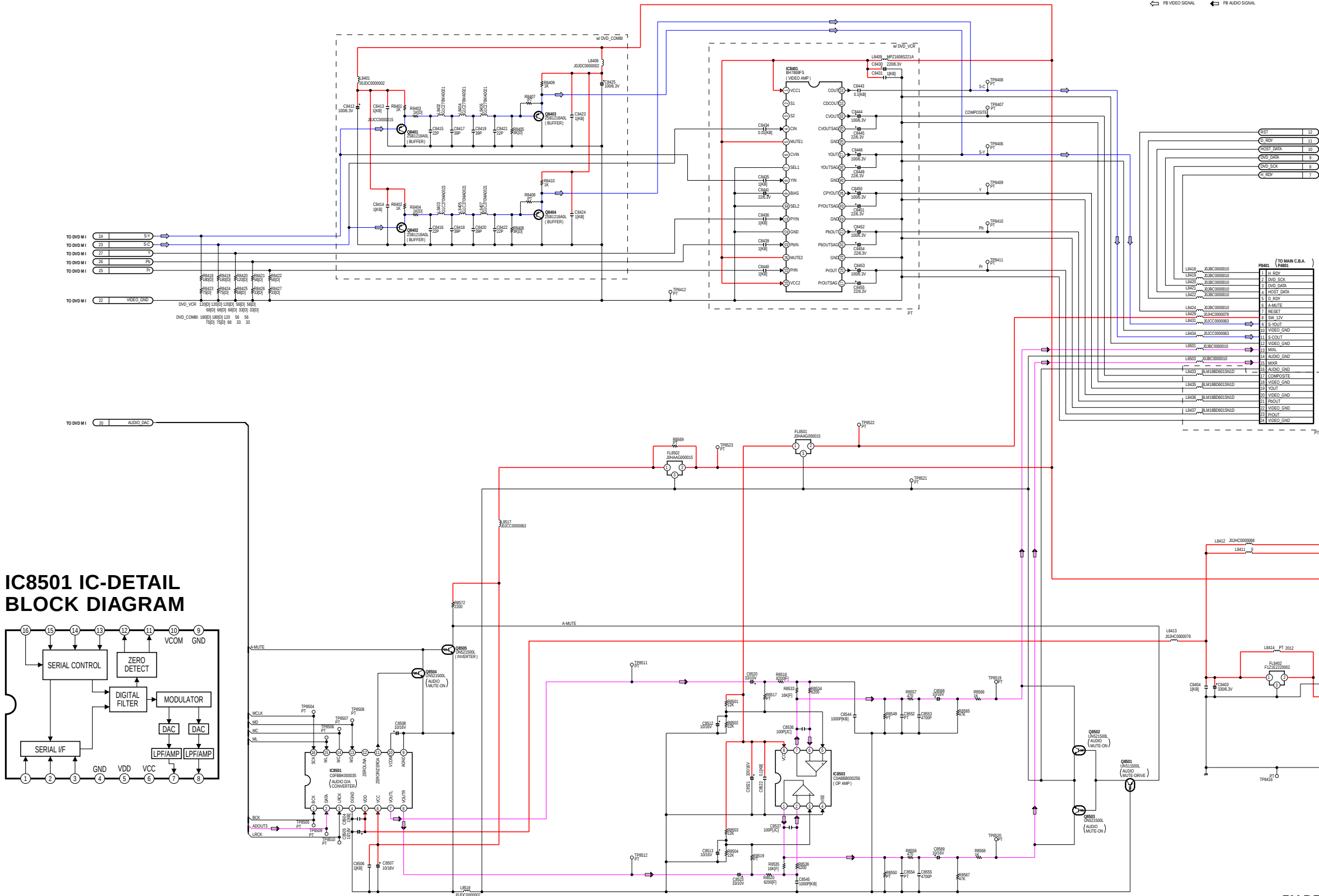
DVD MAIN II SCHEMATIC DIAGRAM

VIDEO/AUDIO

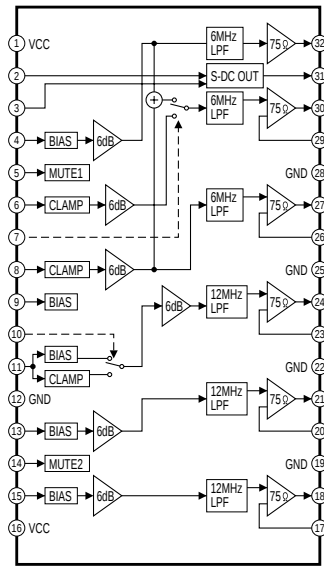
NOTE:
PARTS MARKED "PT" ARE NOT USED.

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

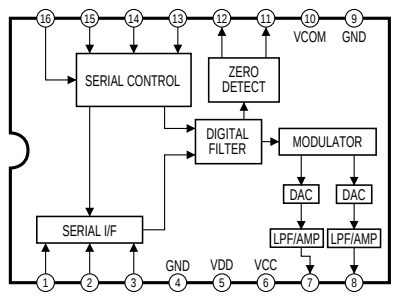
NOTE: For placing a purchase order of the parts,
be sure to use the part number listed in the parts list.
Do not use the part number on this diagram.



IC8401 IC-DETAIL
BLOCK DIAGRAM



IC8501 IC-DETAIL
BLOCK DIAGRAM

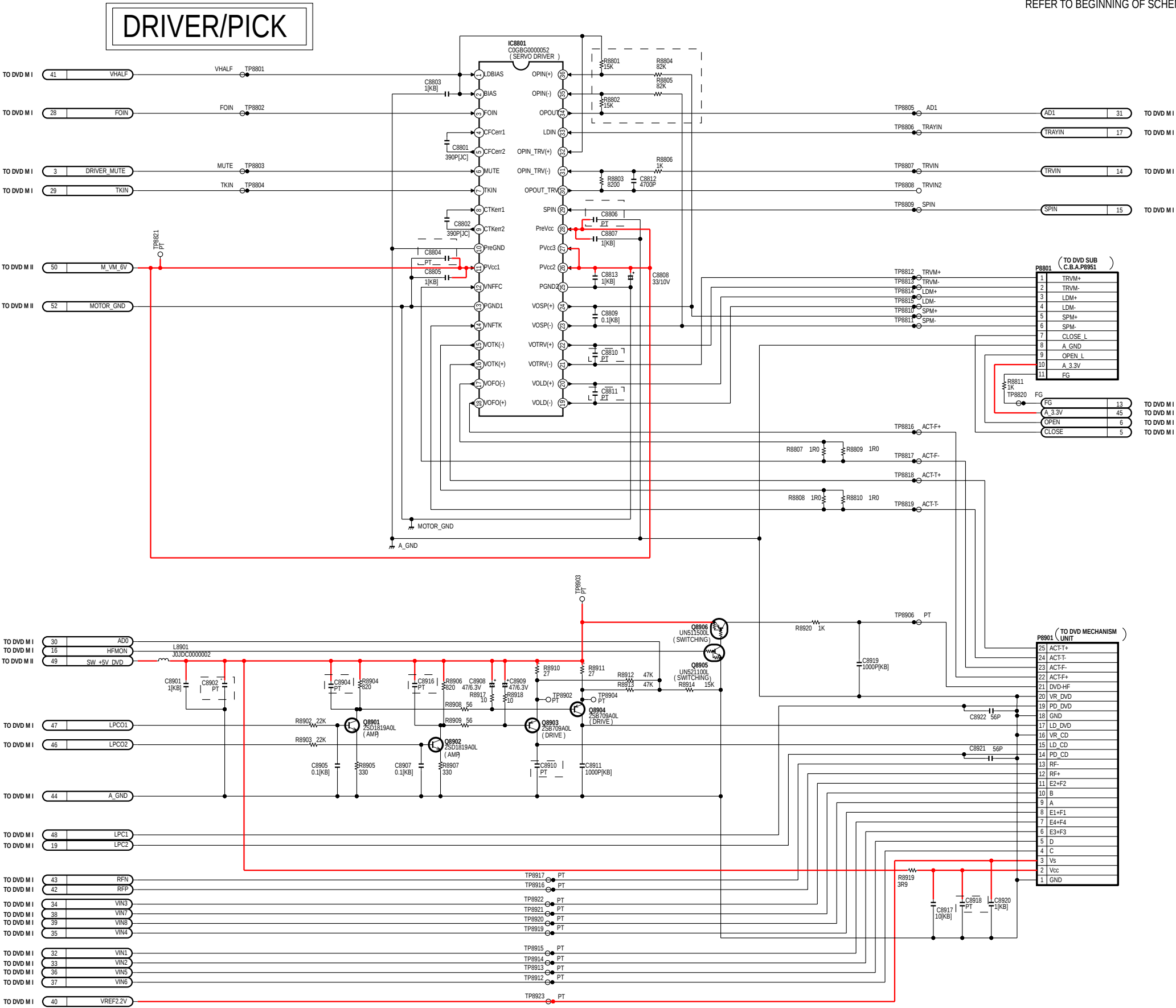


LINK TO VOLTAGE CHART

LSJB2186
DVD MAIN II SCHEMATIC DIAGRAM

PV-DF204/PV-DF2004/PV-DF274/PV-DF2704
/PV-DF2004-K/PV-DF2704-K/PV-DM2794

DVD MAIN III SCHEMATIC DIAGRAM



NOTE:
PARTS MARKED "PT" ARE NOT USED.

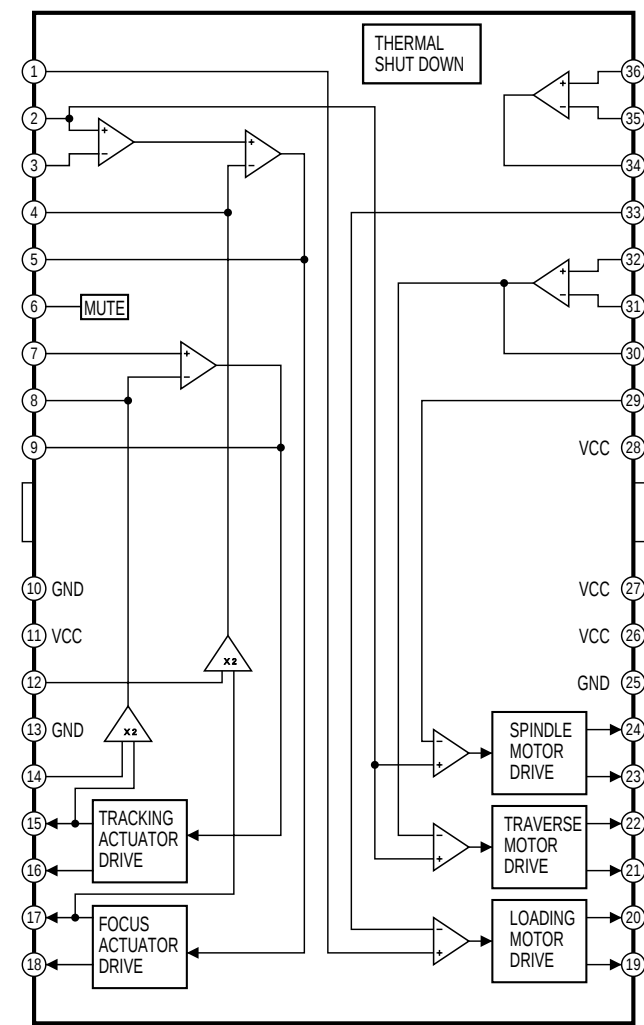
NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: For placing a purchase order of the parts,
be sure to use the part number listed in the parts list.
Do not use the part number on this diagram.

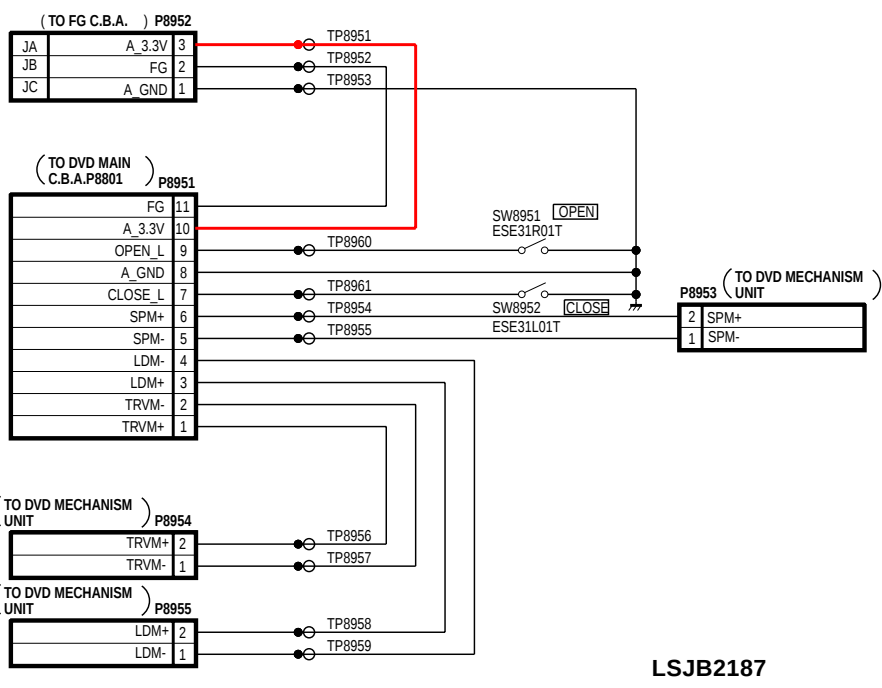
[LINK TO VOLTAGE CHART](#)

LSJB2186
DVD MAIN III / DVD SUB SCHEMATIC DIAGRAM
PV-DF204/PV-DF2004/PV-DF274/PV-DF2704
/PV-DF2004-K/PV-DF2704-K/PV-DM2794

IC8801 IC-DETAIL BLOCK DIAGRAM

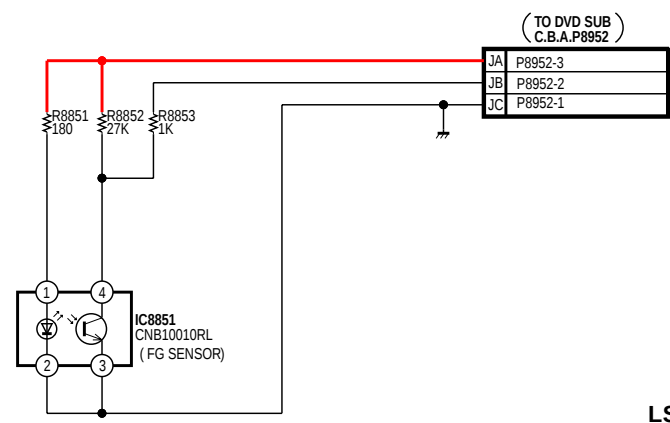


DVD SUB SCHEMATIC DIAGRAM



FG SCHEMATIC DIAGRAM

"FOR REFERENCE ONLY"



NOTE: FG C.B.A. IS NOT SERVICEABLE AND IS SUPPLIED AS A DVD MECHANISM UNIT ONLY FOR REPLACEMENT.

IC8801 DETAIL BLOCK DIAGRAM
LSJB2187
DVD SUB SCHEMATIC DIAGRAM
LSJB2200
FG SCHEMATIC DIAGRAM

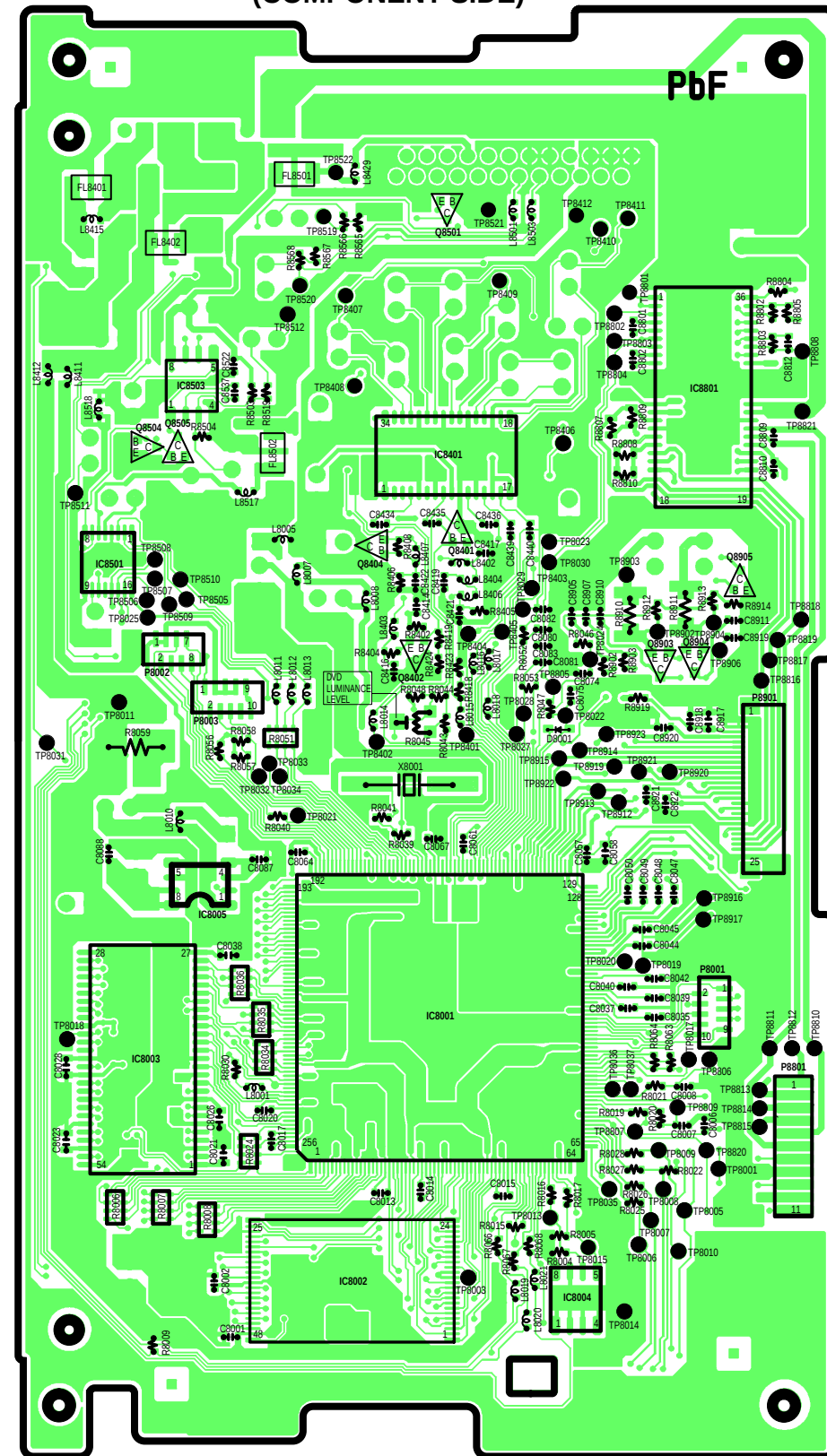
PV-DF204/PV-DF2004/PV-DF274/PV-DF2704
/PV-DF2004-K/PV-DF2704-K/PV-DM2794

7 CIRCUIT BOARD LAYOUT

7.1. DVD MAIN C.B.A. / DVD SUB C.B.A.

DVD MAIN C.B.A. LSEP2186A

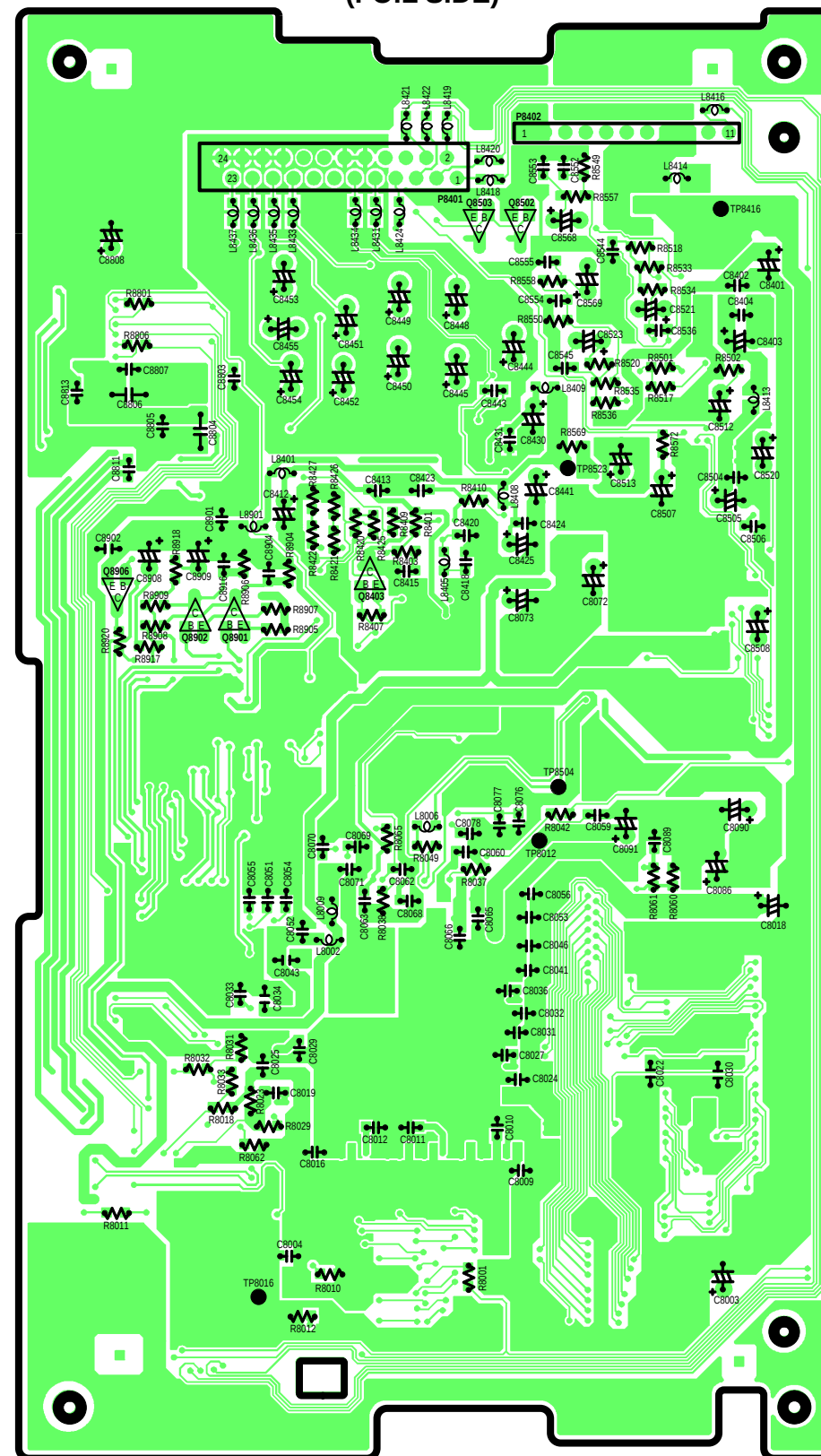
(COMPONENT SIDE)



(DUAL PATTERNS)

LSJB218

(FOIL SIDE)



(DUAL PATTERNS)

LC 18219

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

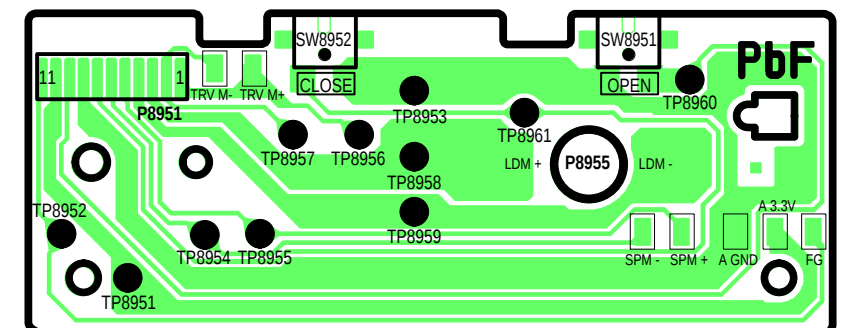
NOTE:
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

DVD SUB C.B.A. LSEP2187A

NOTE:
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



SJB2187

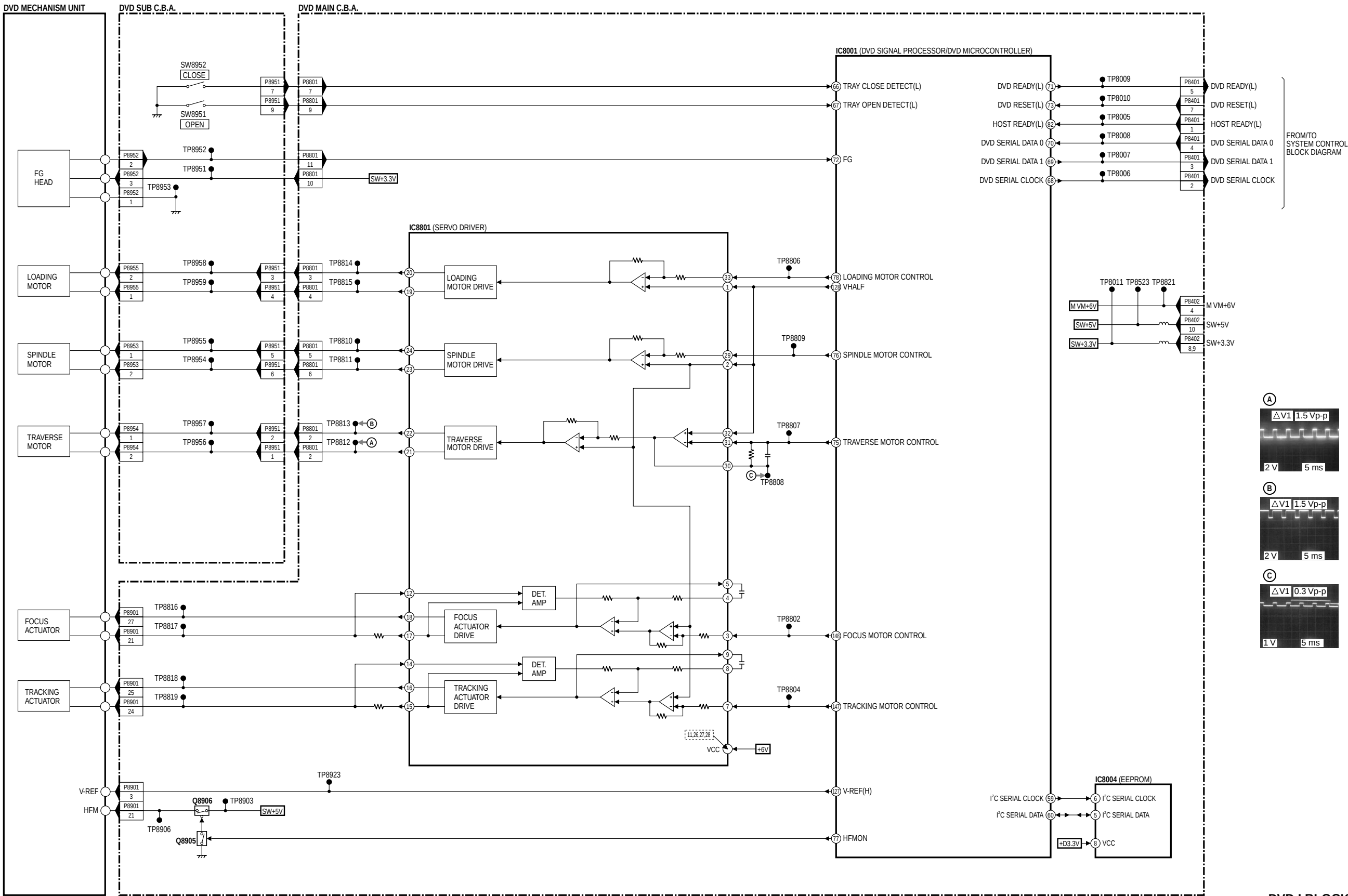
DVD MAIN C.B.A. LSEP2186A

DVD SUB C.B.A. LSEP2187A

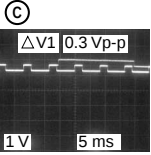
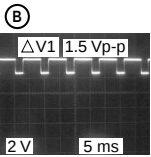
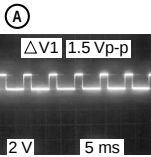
**PV-DF204/PV-DF2004/PV-DF274/PV-DF2704
/PV-DF2004-K/PV-DF2704-K/PV-DM2794**

8 BLOCK DIAGRAMS

DVD I BLOCK DIAGRAM

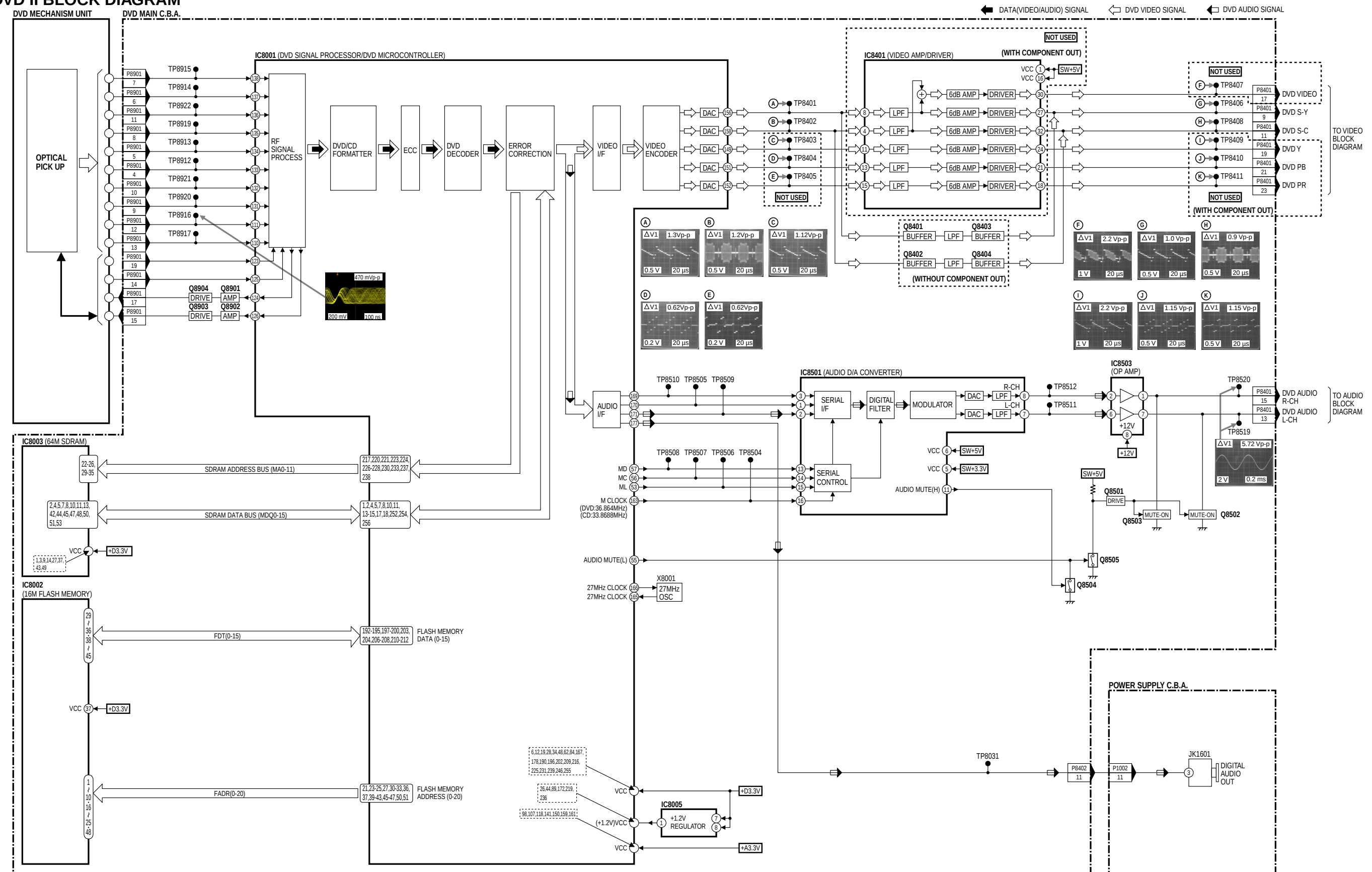


FROM/TO
SYSTEM CONTROL
BLOCK DIAGRAM



DVD I BLOCK DIAGRAM
PV-DF204/PV-DF2004/PV-DF274/PV-DF2704/PV-DF2004-K/PV-DF2704-K/PV-DM2794

DVD II BLOCK DIAGRAM



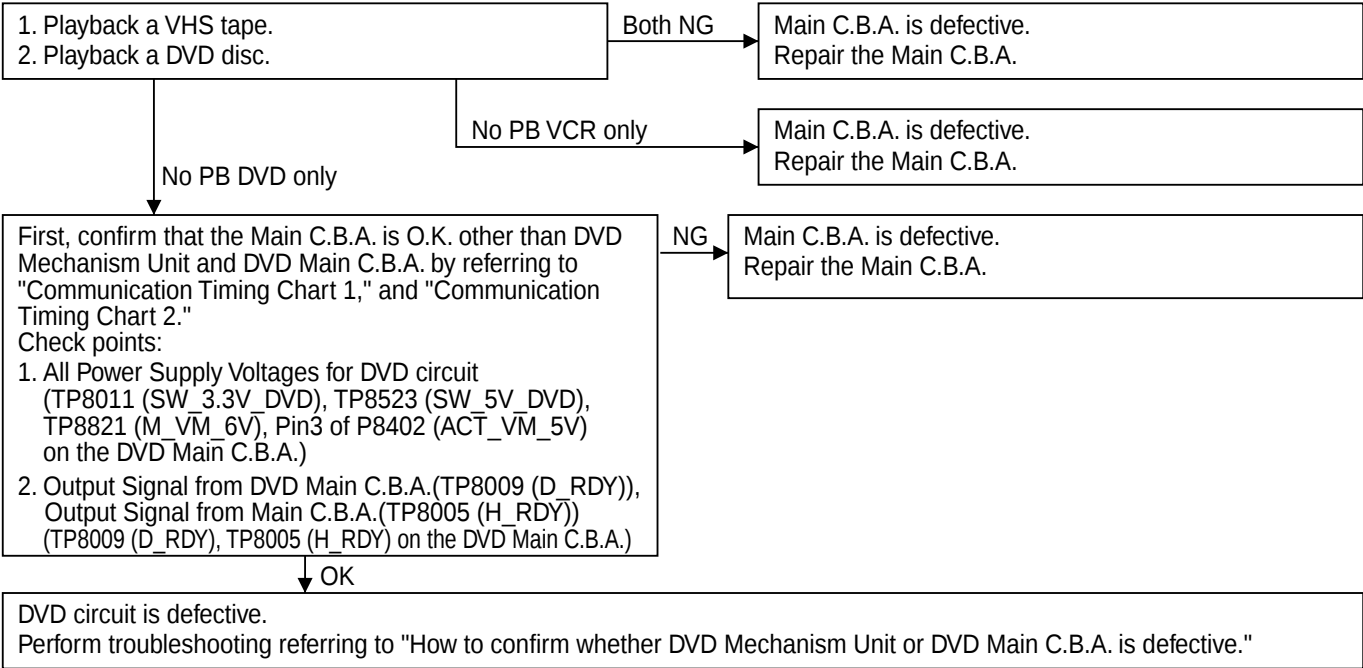
DVD II BLOCK DIAGRAM
PV-DF204/PV-DF2004/PV-DF274/PV-DF2704/PV-DF2004-K/PV-DF2704-K/PV-DM2794

Troubleshooting Hints

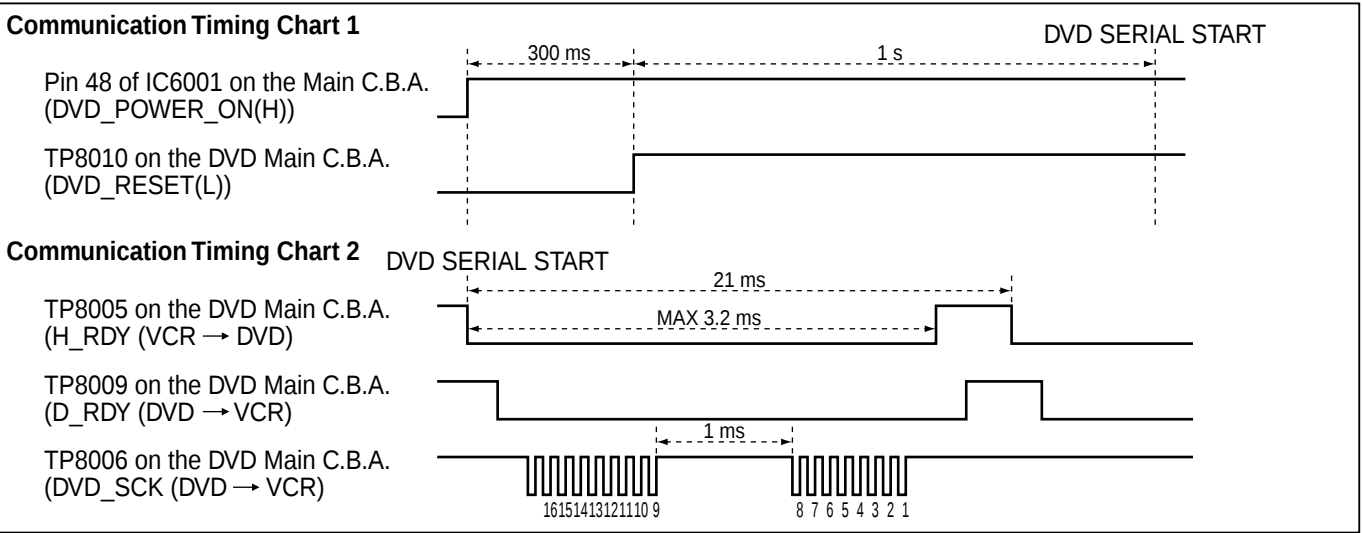
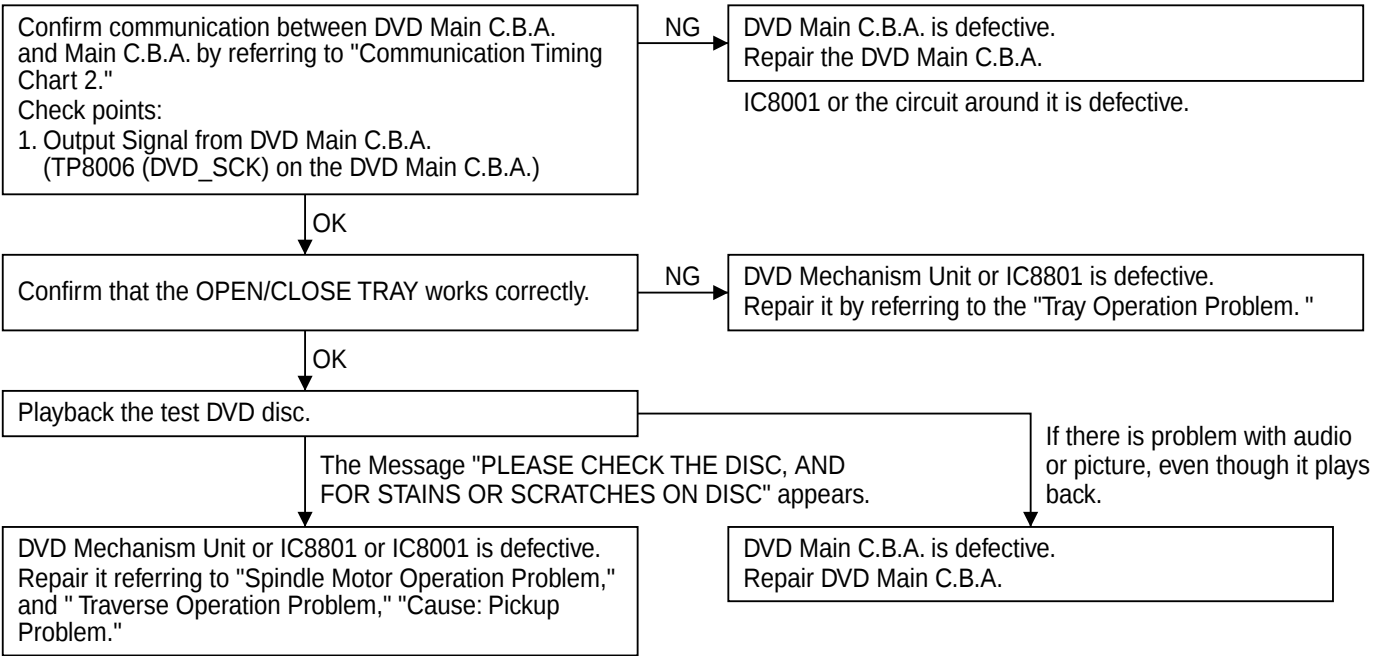
How to confirm whether DVD circuit or other circuits is defective.

NOTE:
Host communication may not occur correctly between IC6001 on the Main C.B.A. and IC8001 on the DVD Main C.B.A. when there is a problem on the DVD Main C.B.A.
(Serial Data Communication failure between IC6001 and IC8001 within 30sec. IC6001 will switch automatically to VCR.)
(Check the VCR mode and DVD mode.)
Check the voltage during the 30 seconds during which the unit remains in DVD mode.

1) Confirm DVD operation and VCR operation

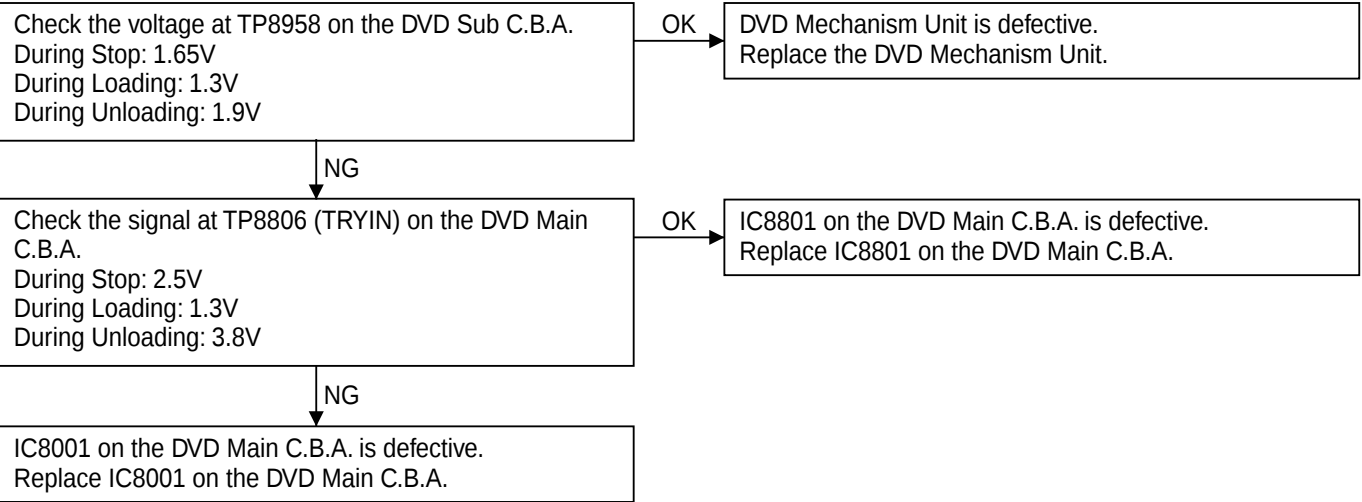


How to confirm whether DVD Mechanism Unit or DVD Main C.B.A. is defective.



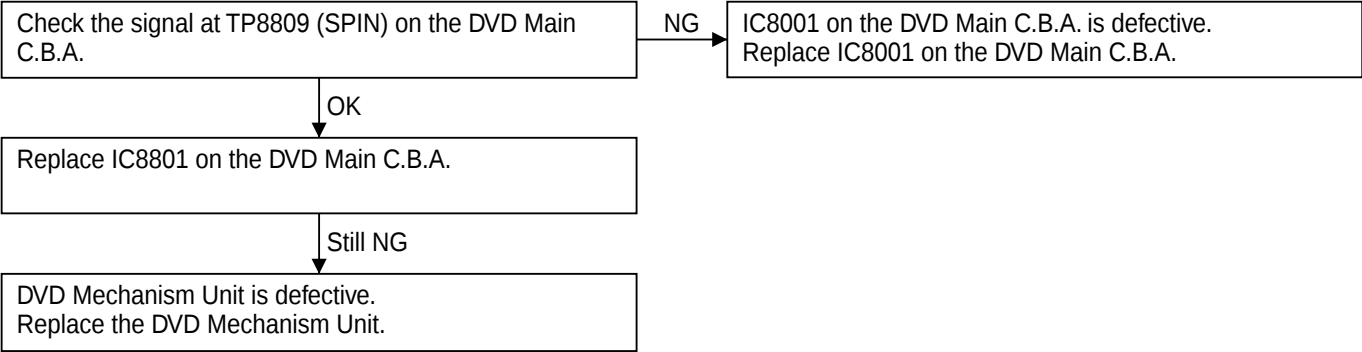
Troubleshooting Hints of DVD Mechanism Unit

Tray Operation Problem

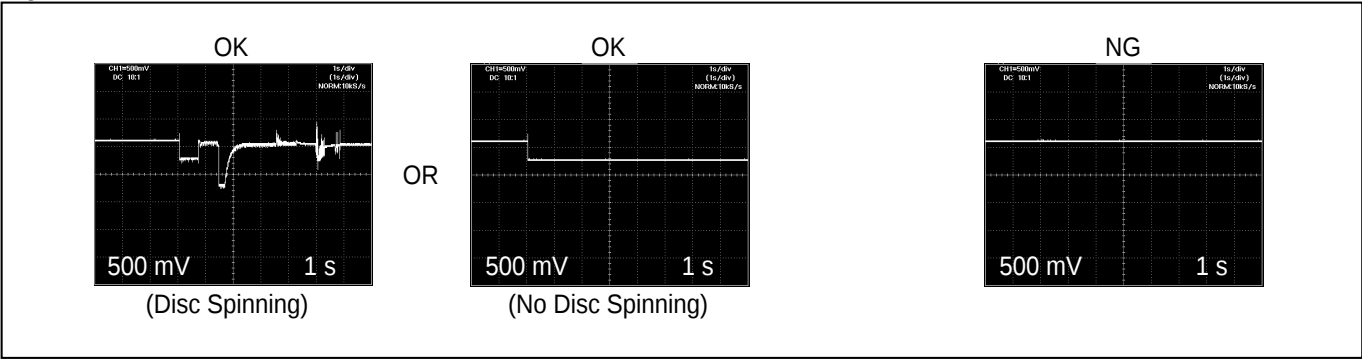


Spindle Motor Operation Problem

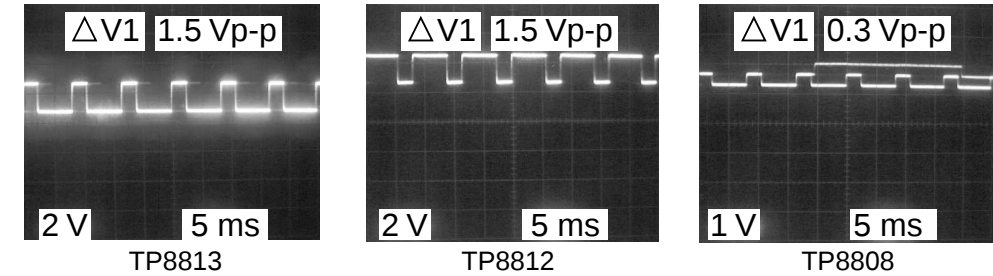
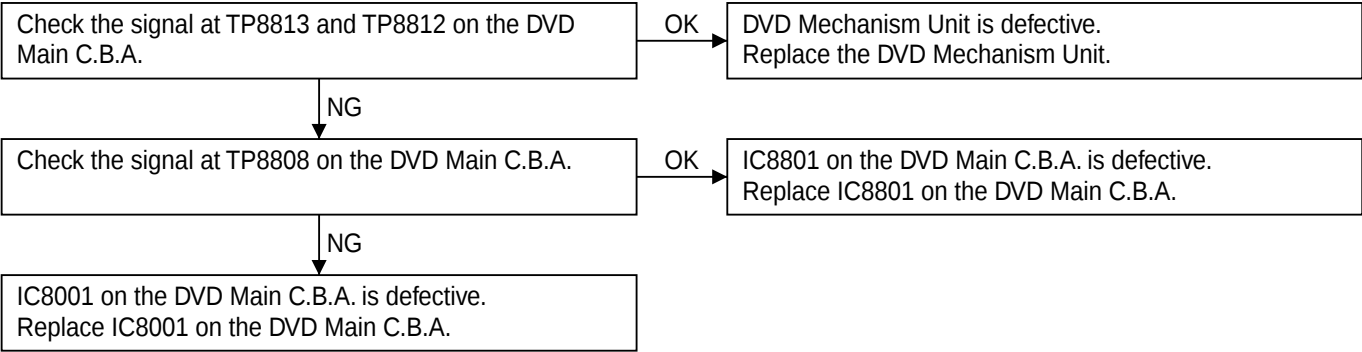
Note: Check the signal at TP8809 as soon as disc has been inserted. Otherwise, following waveform can not be monitored.



Signal at TP8809

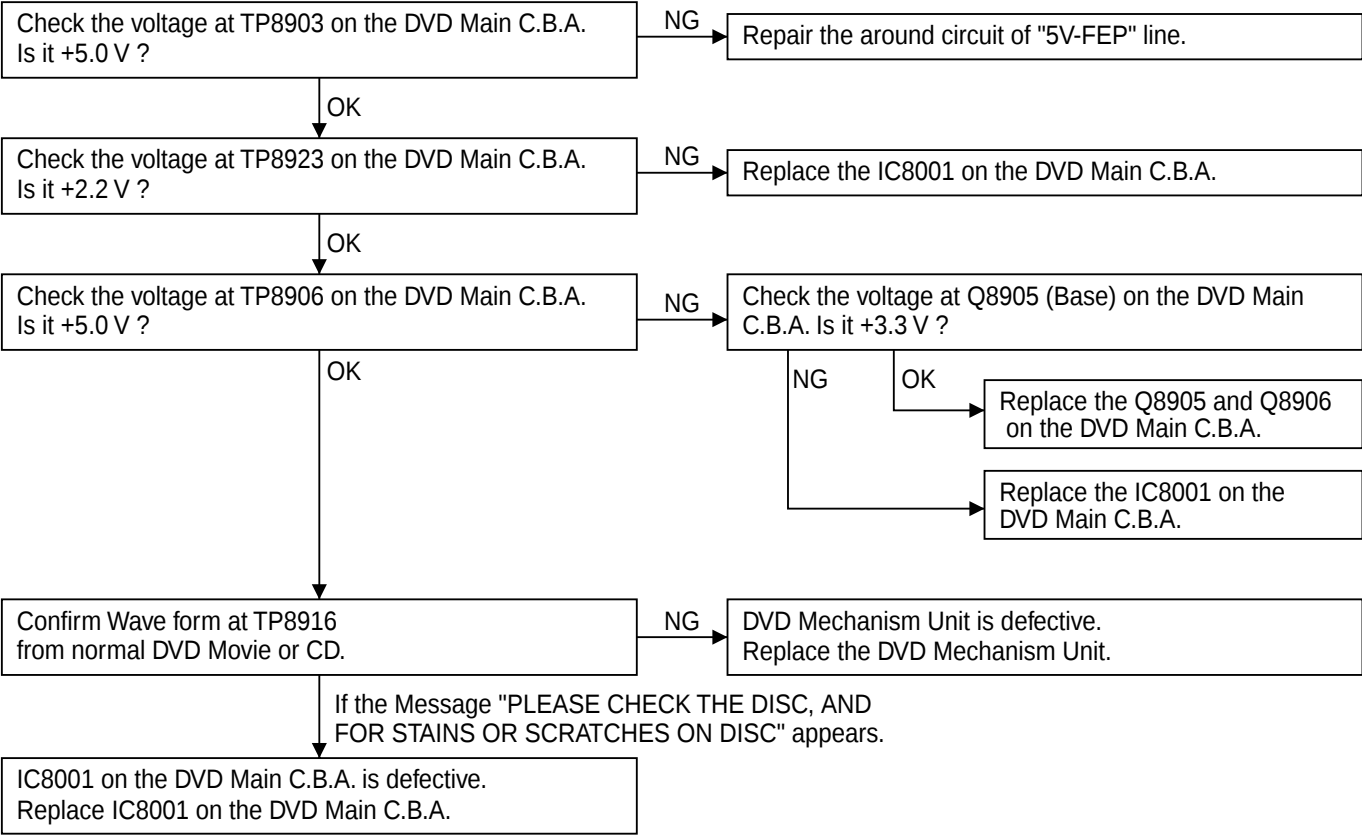


Traverse Operation Problem

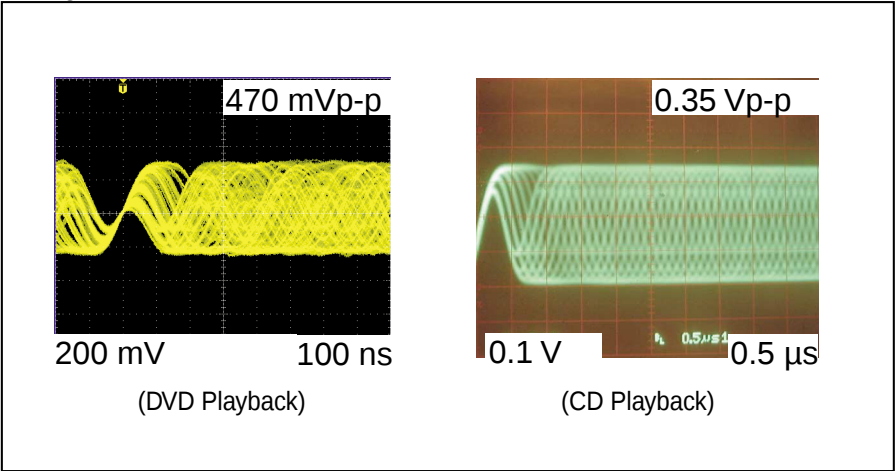


Pickup Operation Problem

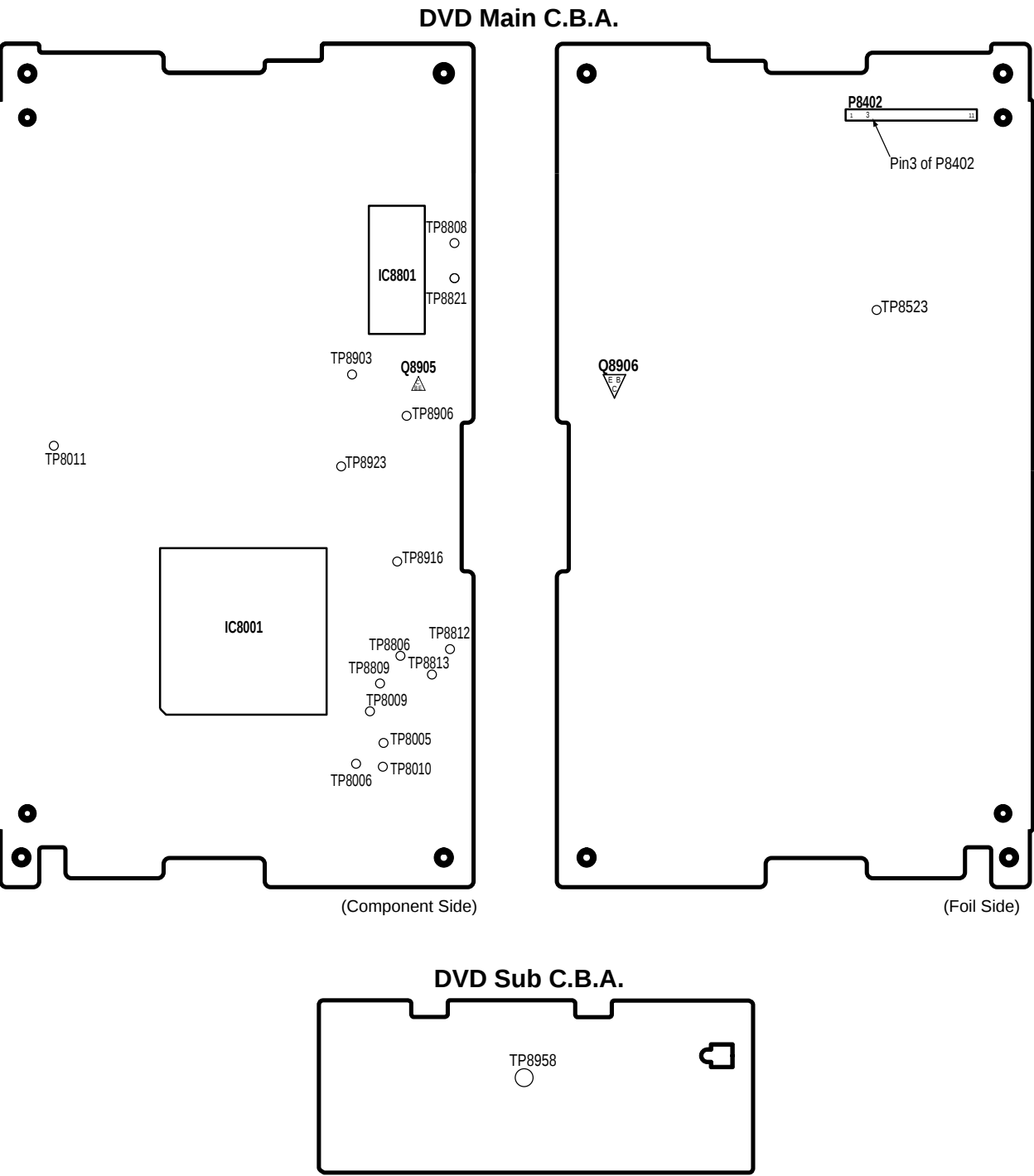
Note: Check the voltage during 10 to 20 seconds as soon as disc has been inserted.



RF Signal at TP8916



TEST POINTS LOCATION



Test Point Information

- Test Point with a Test Pin.
- ⊙ Test Point with a jumper wire across a hole in the P.C.B.
- Test Point with no Test Pin.

9 REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS, READ THE FOLLOWING:

9.1. REPLACEMENT NOTES

9.1.1. General Notes

1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

2. **IMPORTANT SAFETY NOTICE**

Components identified by the sign $\triangle$ have special characteristics important for safety. When replacing any of these components, use only the specified parts.

3. **SPECIAL NOTE**

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

4. Parts with no Ref. No. in "EXPLODED VIEWS" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.
5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
6. All parts are supplied from MKI.
7. Item numbers with capital letter E (Example: E10, E20,...) in the Ref. No. column are shown in the exploded views.
8. Parts whose Ref. Nos. are the same are interchangeable as replacement parts. Any of these parts may be ordered and used as a replacement part.

9.1.2. Electrical Replacement Notes

1. Unless otherwise specified;

All resistors are in Ω , K = 1,000 Ω , M = 1,000 k Ω .

2. **Abbreviation**

RTL: Retention Time Limited
This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR: Non Repairable Board Ass'y

MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip

COMPLX CMP: Complex Component

W FLMPRF: Wirewound Flameproof

C.B.A.: Circuit Board Assembly

P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

3. When replacing 0 Ω resistor, a wire can be substituted for it.

9.2. ELECTRICAL REPLACEMENT PARTS LIST

PRINTED CIRCUIT BOARD ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Remarks
E70	LSUQ0074	DVD MAIN C.B.A.	E.S.D. RTL
E80	LSEP2187A	DVD SUB C.B.A.	RTL

9.2.1. DVD MAIN C.B.A.

INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remarks
IC8001	MN2DS03VP1H	IC, SYSTEM LSI	E.S.D.
IC8002	LSSK0053	IC, 16M FLASH MEMORY	E.S.D.
IC8003	C3ABPG000133	IC, 64M D RAM	E.S.D.
IC8004	LSSK0056	IC, 4K EEP ROM	E.S.D.
IC8005	C0DBEZG00017	IC, LINEAR	
IC8501	C0FBBK000035	IC, LINEAR	
IC8503	C0ABBB000256	IC, LINEAR	
IC8801	C0GBG0000052	IC, LINEAR	

TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
Q8401	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q8401	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q8401	B1ADCF000075	TRANSISTOR SI PNP CHIP	
Q8402	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q8402	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q8402	B1ADCF000075	TRANSISTOR SI PNP CHIP	
Q8403	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q8403	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q8403	B1ADCF000075	TRANSISTOR SI PNP CHIP	
Q8404	2SB1218A0L	TRANSISTOR SI PNP CHIP	
Q8404	B1ADCF000063	TRANSISTOR SI PNP CHIP	
Q8404	B1ADCF000075	TRANSISTOR SI PNP CHIP	
Q8501	UNR511500L	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q8501	B1GDCFJA0017	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q8501	B1GDCFJJ0025	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q8502	UNR521500L	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8502	B1GBCFJA0006	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8502	B1GBCFJA0013	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8503	UNR521500L	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8503	B1GBCFJA0006	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8503	B1GBCFJA0013	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8504	UNR521500L	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8504	B1GBCFJA0006	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8504	B1GBCFJA0013	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8505	UNR521500L	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8505	B1GBCFJA0006	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8505	B1GBCFJA0013	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8901	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q8901	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q8902	2SD1819A0L	TRANSISTOR SI NPN CHIP	
Q8902	B1ABCF000020	TRANSISTOR SI NPN CHIP	
Q8903	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q8903	B1ADCC000004	TRANSISTOR SI PNP CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
Q8903	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q8903	B1ADCF000077	TRANSISTOR SI PNP CHIP	
Q8904	2SB0709A0L	TRANSISTOR SI PNP CHIP	
Q8904	B1ADCC000004	TRANSISTOR SI PNP CHIP	
Q8904	B1ADCF000001	TRANSISTOR SI PNP CHIP	
Q8904	B1ADCF000077	TRANSISTOR SI PNP CHIP	
Q8905	UNR521100L	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8905	B1GBCFJJ0001	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8905	B1GBCFJJ0007	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8905	B1GBCFJJ0035	TRANSISTOR COMPLX CMP SI PNP CHIP	
Q8906	UNR511500L	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q8906	B1GDCFJA0017	TRANSISTOR COMPLX CMP SI NPN CHIP	
Q8906	B1GDCFJJ0025	TRANSISTOR COMPLX CMP SI NPN CHIP	

DIODES

Ref. No.	Part No.	Part Name & Description	Remarks
D8001	MA2J111008	DIODE SI CHIP	
D8001	B0ACCK000005	DIODE SI CHIP	
D8001	MA2J11100L	DIODE SI CHIP	

RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
R8001	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8004	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R8005	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R8006	EXB38V820JV	ARRAY CHIP 82	
R8007	EXB38V820JV	ARRAY CHIP 82	
R8008	EXB38V820JV	ARRAY CHIP 82	
R8009	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R8010	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8015	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R8016	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R8017	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R8019	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8020	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8021	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R8023	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8024	EXB38V820JV	ARRAY CHIP 82	
R8025	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R8026	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R8027	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8028	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R8029	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8030	ERJ3GEYJ270V	MGF CHIP 1/16W 27	
R8031	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8032	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8033	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R8034	EXB38V820JV	ARRAY CHIP 82	
R8035	EXB38V820JV	ARRAY CHIP 82	
R8036	EXB38V820JV	ARRAY CHIP 82	
R8037	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8038	ERA3YED273V	MGF CHIP 1/16W 27K	
R8039	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R8040	ERJ3GEYJ330V	MGF CHIP 1/16W 33	
R8041	ERA3YED221V	MGF CHIP 1/16W 220	
R8042	ERJ3GEYJ330V	MGF CHIP 1/16W 33	
R8043	ERA3YED332V	MGF CHIP 1/16W 3.3K	
R8044	ERA3YED151V	MGF CHIP 1/16W 150	
R8046	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R8047	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8048	ERA3YED822V	MGF CHIP 1/16W 8.2K	
R8049	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R8051	EXB38V820JV	ARRAY CHIP 82	
R8052	ERJ3GEYJ203V	MGF CHIP 1/16W 20K	
R8053	ERJ3GEYJ203V	MGF CHIP 1/16W 20K	
R8056	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	

Ref. No.	Part No.	Part Name & Description	Remarks
R8057	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8058	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8059	ERJ1TYJ4R7U	MGF CHIP 1W 4.7	
R8060	ERA3YED103V	MGF CHIP 1/16W 10K	
R8061	ERA3YED202V	MGF CHIP 1/16W 2K	
R8065	ERJ3GEYJ6R8V	MGF CHIP 1/16W 6.8	
R8066	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R8067	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R8068	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R8401	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8402	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8403	ERA3YED102V	MGF CHIP 1/16W 1K	
R8404	ERA3YED102V	MGF CHIP 1/16W 1K	
R8405	ERA3YED302V	MGF CHIP 1/16W 3K	
R8406	ERA3YED302V	MGF CHIP 1/16W 3K	
R8409	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8410	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8418	ERA3YED181V	MGF CHIP 1/16W 180	
R8419	ERA3YED181V	MGF CHIP 1/16W 180	
R8420	ERJ3GEYJ121V	MGF CHIP 1/16W 120	
R8421	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R8422	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R8423	ERA3YHD750V	MGF CHIP 1/16W 75	
R8424	ERA3YHD750V	MGF CHIP 1/16W 75	
R8425	ERJ3GEYJ680V	MGF CHIP 1/16W 68	
R8426	ERJ3GEYJ330V	MGF CHIP 1/16W 33	
R8427	ERJ3GEYJ330V	MGF CHIP 1/16W 33	
R8501	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8502	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8503	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8504	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8518	ERJ3GEYF822V	MGF CHIP 1/16W 8.2K	
R8520	ERJ3GEYF822V	MGF CHIP 1/16W 8.2K	
R8533	ERJ3GEYF163V	MGF CHIP 1/16W 16K	
R8534	ERJ3GEYJ622V	MGF CHIP 1/16W 6.2K	
R8535	ERJ3GEYF163V	MGF CHIP 1/16W 16K	
R8536	ERJ3GEYJ622V	MGF CHIP 1/16W 6.2K	
R8557	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
R8558	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
R8565	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R8566	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8567	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R8568	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8572	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R8801	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R8802	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R8803	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R8804	ERJ3GEYJ823V	MGF CHIP 1/16W 82K	
R8805	ERJ3GEYJ823V	MGF CHIP 1/16W 82K	
R8806	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8807	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1	
R8808	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1	
R8809	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1	
R8810	ERJ6GEYJ1R0V	MGF CHIP 1/10W 1	
R8811	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R8902	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8903	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R8904	ERJ3GEYJ821V	MGF CHIP 1/16W 820	
R8905	ERJ3GEYJ331V	MGF CHIP 1/16W 330	
R8906	ERJ3GEYJ821V	MGF CHIP 1/16W 820	
R8907	ERJ3GEYJ331V	MGF CHIP 1/16W 330	
R8908	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R8909	ERJ3GEYJ560V	MGF CHIP 1/16W 56	
R8910	ERJ12YJ270U	MGF CHIP 1/2W 27	
R8911	ERJ12YJ270U	MGF CHIP 1/2W 27	
R8912	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R8913	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R8914	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R8917	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R8918	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R8919	ERJ3GEYJ3R9V	MGF CHIP 1/16W 3.9	
R8920	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	

CAPACITORS

Ref. No.	Part No.	Part Name & Description	Remarks
C8001	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8002	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8003	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C8004	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8006	ECJ1VB1H103K	C CHIP 50V 0.01UF	
C8007	F1H1C104A041	C CHIP 16V 0.1UF	
C8008	F1H1C104A041	C CHIP 16V 0.1UF	
C8009	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8010	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8011	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8012	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8013	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8014	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8015	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8016	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8017	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8018	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C8019	F1H1C104A041	C CHIP 16V 0.1UF	
C8020	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8021	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8022	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8023	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8024	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8025	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8026	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8027	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8028	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8029	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8030	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8031	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8032	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8033	ECJ1VB1E333K	C CHIP 25V 0.033UF	
C8034	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8035	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8036	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8037	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8038	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8039	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8040	ECJ1VB1H562K	C CHIP 50V 5600PF	
C8041	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8042	ECJ1VB1E183K	C CHIP 25V 0.018UF	
C8043	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8044	F1H1C104A041	C CHIP 16V 0.1UF	
C8045	F1H1C104A041	C CHIP 16V 0.1UF	
C8046	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8047	F1H1C104A041	C CHIP 16V 0.1UF	
C8048	F1H1C104A041	C CHIP 16V 0.1UF	
C8049	F1H1C104A041	C CHIP 16V 0.1UF	
C8050	F1H1C104A041	C CHIP 16V 0.1UF	
C8051	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8052	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8053	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8054	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8055	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8056	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8057	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8058	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8059	ECJ1VC1H330J	C CHIP 50V 33PF	
C8060	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8061	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8062	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8063	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8064	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8065	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8066	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8067	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8068	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8069	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8070	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8071	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8072	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8073	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	

Ref. No.	Part No.	Part Name & Description	Remarks
C8074	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8075	F1H1C104A041	C CHIP 16V 0.1UF	
C8076	ECJ1VC1H050C	C CHIP 50V 5PF	
C8077	ECJ1VC1H150J	C CHIP 50V 15PF	
C8078	ECJ1VC1H150J	C CHIP 50V 15PF	
C8080	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8081	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8082	ECJ1VC1H101J	C CHIP 50V 100PF	
C8083	ECJ1VC1H101J	C CHIP 50V 100PF	
C8086	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8090	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8091	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8401	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8402	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8403	ECEA0JKA331	ELECTROLYTIC 6.3V 330UF	
C8404	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8412	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8413	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8414	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8415	ECJ1VC1H220J	C CHIP 50V 22PF	
C8416	ECJ1VC1H220J	C CHIP 50V 22PF	
C8417	ECJ1VC1H390J	C CHIP 50V 39PF	
C8418	ECJ1VC1H390J	C CHIP 50V 39PF	
C8419	ECJ1VC1H390J	C CHIP 50V 39PF	
C8420	ECJ1VC1H390J	C CHIP 50V 39PF	
C8421	ECJ1VC1H220J	C CHIP 50V 22PF	
C8422	ECJ1VC1H220J	C CHIP 50V 22PF	
C8423	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8424	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8425	ECEA0JKA101	ELECTROLYTIC 6.3V 100UF	
C8504	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8505	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8506	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8507	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8508	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8512	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8513	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8520	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	
C8521	ECEA1CKA101	ELECTROLYTIC 16V 100UF	
C8522	F1H1C104A041	C CHIP 16V 0.1UF	
C8523	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	
C8536	ECJ1VC1H101J	C CHIP 50V 100PF	
C8537	ECJ1VC1H101J	C CHIP 50V 100PF	
C8544	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8545	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8553	F1H1H472A219	C CHIP 50V 4700PF	
C8555	F1H1H472A219	C CHIP 50V 4700PF	
C8568	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8569	ECEA1CKA100	ELECTROLYTIC 16V 10UF	
C8801	ECJ1VC1H391J	C CHIP 50V 390PF	
C8802	ECJ1VC1H391J	C CHIP 50V 390PF	
C8803	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8805	F1H1A105A025	C CHIP 10V 1UF	
C8807	F1H1A105A025	C CHIP 10V 1UF	
C8808	ECEA1AKA330I	ELECTROLYTIC 10V 33UF	
C8809	F1H1C104A041	C CHIP 16V 0.1UF	
C8812	F1H1H472A219	C CHIP 50V 4700PF	
C8813	F1H1A105A025	C CHIP 10V 1UF	
C8901	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8905	F1H1C104A041	C CHIP 16V 0.1UF	
C8907	F1H1C104A041	C CHIP 16V 0.1UF	
C8908	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C8909	ECEA0JKA470	ELECTROLYTIC 6.3V 47UF	
C8911	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8917	ECJ2FB0J106K	C CHIP 6.3V 10UF	
C8919	ECJ1VB1H102K	C CHIP 50V 1000PF	
C8920	ECJ1VB0J105K	C CHIP 6.3V 1UF	
C8921	ECJ1VC1H560J	C CHIP 50V 56PF	
C8922	ECJ1VC1H560J	C CHIP 50V 56PF	

FILTERS

Ref. No.	Part No.	Part Name & Description	Remarks
FL8402	F1Z1E2220002	EMI FILTER CHIP	

Ref. No.	Part No.	Part Name & Description	Remarks
FL8501	J0HAA0000015	EMI FILTER CHIP	
FL8502	J0HAA0000015	EMI FILTER CHIP	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L8001	J0JCC00000117	EMI FILTER CHIP	
L8002	J0JDC00000002	EMI FILTER CHIP	
L8005	J0JDC00000002	EMI FILTER CHIP	
L8006	J0JCC00000215	EMI FILTER CHIP	
L8007	J0JDC00000002	EMI FILTER CHIP	
L8008	J0JDC00000002	EMI FILTER CHIP	
L8009	J0JDC00000002	EMI FILTER CHIP	
L8010	J0JHC00000027	EMI FILTER CHIP	
L8011	J0JCC00000215	EMI FILTER CHIP	
L8012	J0JCC00000215	EMI FILTER CHIP	
L8013	J0JCC00000215	EMI FILTER CHIP	
L8014	J0JCC00000063	EMI FILTER CHIP	
L8015	J0JCC00000063	EMI FILTER CHIP	
L8016	J0JCC00000063	EMI FILTER CHIP	
L8017	J0JCC00000063	EMI FILTER CHIP	
L8018	J0JCC00000063	EMI FILTER CHIP	
L8019	J0JCC00000215	EMI FILTER CHIP	
L8020	J0JCC00000215	EMI FILTER CHIP	
L8021	J0JCC00000215	EMI FILTER CHIP	
L8401	J0JDC00000002	EMI FILTER CHIP	
L8402	G1C270MA0021	INDUCTOR CHIP	
L8403	G1C270MA0021	INDUCTOR CHIP	
L8404	G1C330MA0021	INDUCTOR CHIP	
L8405	G1C330MA0021	INDUCTOR CHIP	
L8406	G1C270MA0021	INDUCTOR CHIP	
L8407	G1C270MA0021	INDUCTOR CHIP	
L8408	J0JDC00000002	EMI FILTER CHIP	
L8411	ERJ3GEY0R00V	MGF CHIP 1/16W 0	
L8412	J0JHC00000068	EMI FILTER CHIP	
L8413	J0JHC00000078	EMI FILTER CHIP	
L8415	J0JHC00000068	EMI FILTER CHIP	
L8416	J0JBC00000010	EMI FILTER CHIP	
L8418	J0JBC00000010	EMI FILTER CHIP	
L8419	J0JBC00000010	EMI FILTER CHIP	
L8420	J0JBC00000010	EMI FILTER CHIP	
L8421	J0JBC00000010	EMI FILTER CHIP	
L8422	J0JBC00000010	EMI FILTER CHIP	
L8424	J0JBC00000010	EMI FILTER CHIP	
L8429	J0JHC00000078	EMI FILTER CHIP	
L8431	J0JCC00000063	EMI FILTER CHIP	
L8434	J0JCC00000063	EMI FILTER CHIP	
L8501	J0JBC00000010	EMI FILTER CHIP	
L8503	J0JBC00000010	EMI FILTER CHIP	
L8517	J0JCC00000063	EMI FILTER CHIP	
L8518	J0JDC00000002	EMI FILTER CHIP	
L8901	J0JDC00000002	EMI FILTER CHIP	

CRYSTAL OSCILLATOR

Ref. No.	Part No.	Part Name & Description	Remarks
X8001	H0J2705000066	CRYSTAL OSCILLATOR	

PIN HEADERS

Ref. No.	Part No.	Part Name & Description	Remarks
P8401	K1MN16A00071	CONNECTOR 16P	
P8402	K1MR11A00017	CONNECTOR 11P	
P8901	K1MN25B00070	CONNECTOR 25P	

9.2.2. DVD SUB C.B.A.

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW8951	ESE31R01T	SWITCH PUSH	
SW8952	ESE31L01T	SWITCH PUSH	