

SERVICE MANUAL

MODEL
SDP1731

CAUTION : Before servicing this chassis, read the "PRODUCT SAFETY SERVICE FOR VIDEO PRODUCTS" section on page 2 of this manual.

DVD and CD
PLAYER

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LASER BEAM CAUTION LABEL

- レンズには絶対に触れないでください。
- DO NOT TOUCH THE LENS.
- LINSE NICHT BRÜHREN.
- NE PAS TOUCHER LA LENTILLE.

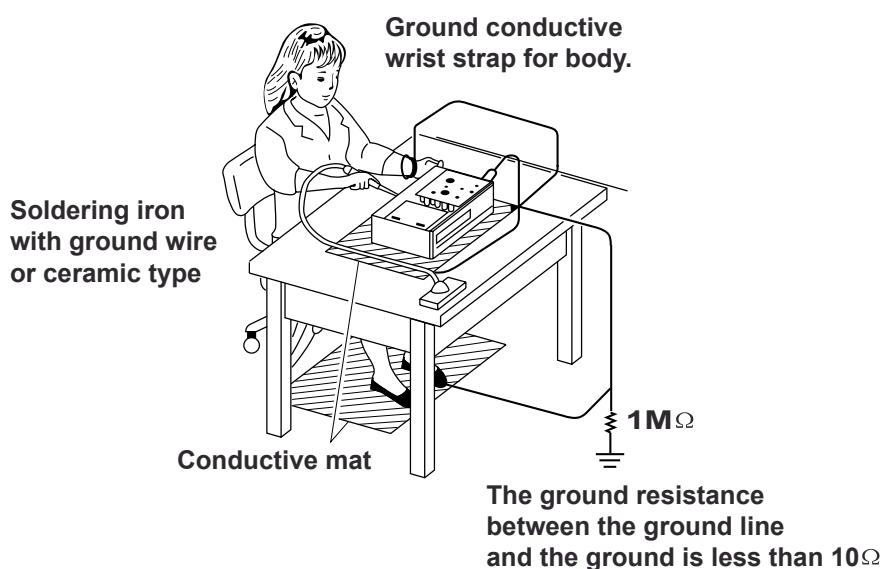
When the power supply is being turned on, you may not remove this laser cautions label. If it removes, radiation of laser may be received.

PREPARATION OF SERVICING

Pickup Head consists of a laser diode that is very susceptible to external static electricity.

Although it operates properly after replacement, if it was subject to electrostatic discharge during replacement, its life might be shortened. When replacing, use a conductive mat, soldering iron with ground wire,etc. to protect the laser diode from damage by static electricity.

And also, the LSI and IC are same as above.



SAFTY NOTICE

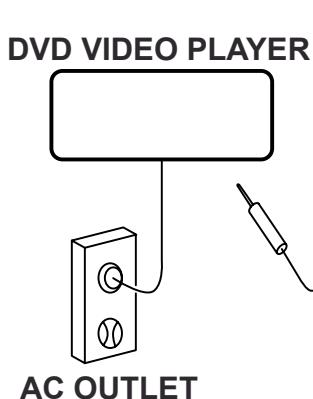
SAFTY PRECAUTIONS

LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120V AC outlet (do not use an isolation transformer for this check). Use an AC voltmeter, having 5000Ω per volt or more sensitivity. Connect a 1500Ω 10W resistor, paralleled by a $0.15\mu F$ 150V AC capacitor between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of cabinet (antennas, handle bracket, metal cabinet screwheads, metal overlays, control shafts, etc.).

Measure the AC voltage across the 1500Ω resistor. The test must be conducted with the AC switch on and then repeated with the AC switch off. The AC voltage indicated by the meter may not exceed 0.3V. A reading exceeding 0.3V indicates that a dangerous potential exists, the fault must be located and corrected. Repeat the above test with the DVD VIDEO PLAYER power plug reversed. NEVER RETURN A DVD VIDEO PLAYER TO THE CUSTOMER WITHOUT TAKING NECESSARY CORRECTIVE ACTION.

READING SHOULD NOT EXCEED 0.3V



AC VOLTMETER
(5000Ω per volt
or more sensitivity)
Good earth ground
such as a water pipe,
conduit, etc.

Test all exposed metal.
Voltmeter Hook-up for Leakage Current Check

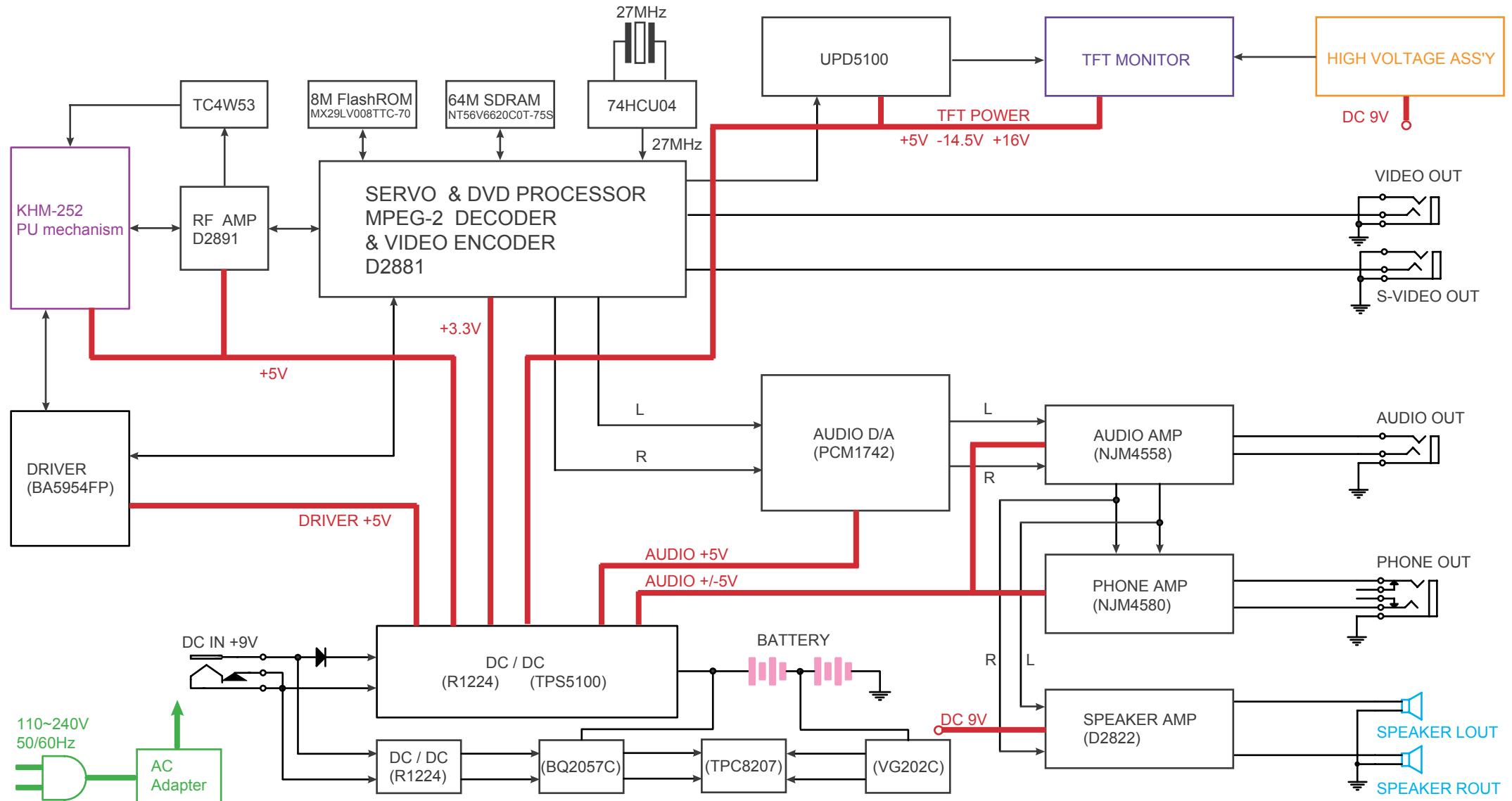


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

OVERALL BLOCK DIAGRAM



1. Troubleshooting

1. No power when turned on.
2. The initial screen is not displayed on the LCD.
3. The DVD drive does not work.
4. The operation of the DVD player stops at initializing display.
5. Image output stops during the operation.
6. No sound or abnormal sound comes out from the speakers in the DVD player.
7. No image or sound comes out from the external output.
8. No sound comes out from the headphones.
9. No image or sound is output by external input.
10. The DVD drive does not operate with the battery.

1.1 No power when turned on.

When the power is turned on, and if the LED on the front panel does not light green, check the following items and repair the defective parts.

(1) Check the power supply cable

If the cable is not the supplied one, replace it with the supplied cable and turn on the power again.

If the power supply cable is good, the AC adapter may be defective.

If the LED does not light after replacing, check the following items.

(2) Check the AC adapter

If the AC adapter is not the supplied one, replace it with the supplied AC adapter and turn on the power.

If the AC adapter is good, the power supply boards may be defective.

If the LED does not light after replacing, check the following items.

(3) Check the Power and Play buttons

Press the POWER button or the PLAY button on the DVD player. If the power does not turn on, check the following:

- Check the connector of the switch unit in the DVD player.
(If the connection is loose, repair the connection.)
- Replace the switch unit and turn on the power again.
If the LED does not light after replacing, check the following items.

(4) Replace the main board

1.2 The initial screen is not displayed on the LCD.

If the initial screen is not displayed on the LCD, check the following items.

(1) Check the LED on the front

If the LED does not light, proceed to 1.1.

(2) Check the backlight

If the backlight does not light up, separate the DVD player into top assembly and bottom assembly, and check the connector harness, and check the connectors for defects.

If the connector harness is broken:

Replace the broken harness.

If the connector harness is not broken:

Remove the LCD cover and plate of the LCD unit and check the following:

- Check the connector of the FL harness, repair connectors.
- If the connectors are good, replace the FL inverter or the LCD.

(3) Check the lighting of LCD

If the LCD does not light, separate the DVD player into the top assembly and bottom assembly, and check the LCD harness, and check the connectors on the main board.

If the connector is broken:

Replace the LCD harness or the main board.

If the connector is not broken:

Remove the LCD cover and plate of the LCD unit, and check the connection to the harness of the LCD unit.

- If a bad connection is found.
 Connect the LCD harness to the LCD unit.
- Other than the above
 Replace the LCD unit or the main board.

1.3 The DVD drive does not work.

When the DVD drive does not work after the power is turned on, check the following items and repair or replace the defective parts.

(1) Press the DISC cover switch at the center of the DVD player and turn on the power. Then check whether or not the optical pick-up lens of the DVD drive lights.

CAUTION: Visible laser radiation when open and interlock defeated. Do not stare into Laser beam.

The optical pick-up lens lights dim:

It is caused by deterioration of the optical pick-up lens. Replace the DVD drive.

The optical pick-up lens does not light:

Check the connectors of the DVD-FFC. Also check the connection to the main board and to the DVD drive.

- Loose connection is found.
Repair the connection, and then check the operation of the DVD drive again.
- The DVD-FFC is broken.
Replace the DVD-FFC.
- Other than the above.
Replace the DVD drive or the main board.

(2) Insert a DVD disk and turn on the power

The DVD drive does not work:

The motor of the DVD drive or the main board is defective. Replace the DVD drive or the main board.

The DVD drive works but the initializing operation of the optical pick-up lens does not start (the optical pick-up lens operates twice), or abnormal noise sound:

The DVD drive is defective. Replace the DVD drive.

1.4 The operation of the DVD player stops at initializing display.

If the DVD player does not work after the initializing screen is displayed, check the indication on the screen. Then repair the defect according to it.

(1) Insert a DVD disk and close the DISC cover, and turn on the power. Then check the LCD screen or use an external display.

- **The message “loading” is not displayed or the operation stops at the message “Loading”.**

Since the DVD drive or the main board is defective, check in the following order:

- 1) DVD drive
- 2) Main board

- **The message “CHECK DISK” is displayed.**

Check the DVD disk for fingerprints, dirt, etc.

If the DVD disk is OK, then check the following items:

- 1) Check the DVD-FFC

If a loose connection, repair the connection.

If it is damaged, replace it with new one.

- 2) Other than above

For other cases, replace the unit in the following order:

- DVD drive (defective optical pick-up)
- Main board

1.5 Image output stops during the operation.

If the image output from the media in the DVD player stops during the operation, replace the DVD drive.

1.6 No sound or abnormal sound comes out from the speakers in the DVD player.

If no sound comes out from the speakers in the DVD player, check the following:

(1) Check for moving images on the LCD screen

Check whether or not the move of image stops in halfway. If it stops, replace the DVD drive.

(2) Check the operation of the DVD driver.

Check whether or not the DVD drive works. If it stops, replace the DVD drive.

(3) Check the connection of the speakers in the LCD unit.

Separate the DVD player into the top assembly and bottom assembly, and then check the connection of the speaker harnesses to the main board. If a bad connection, repair the connection.

Other than the above, disassemble the LCD unit and replace the speakers or the main board.

1.7 No image or sound comes out from the external output

If any image or sound is output from the TV connected by the external cable, replace the main board or the connector.

NOTE: Before this test, make sure the drive works.

1.8 No sound comes out from the headphones.

If no sound comes out from the headphones, replace the main board or the connector.

1.9 No image or sound is output by the external input.

If any image or sound is output by external input, replace the main board or the connector.

1.10 The DVD drive does not operate with the battery.

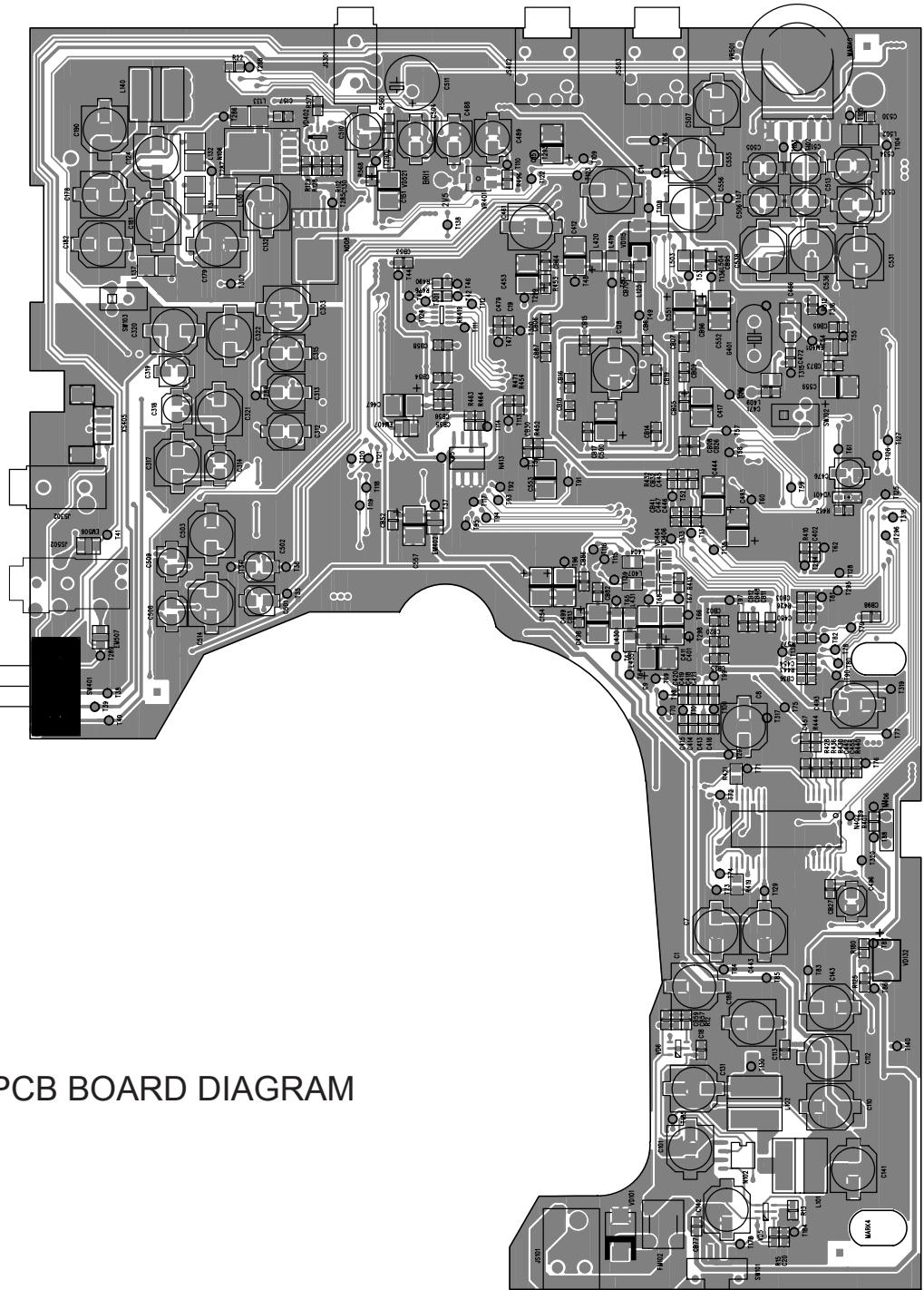
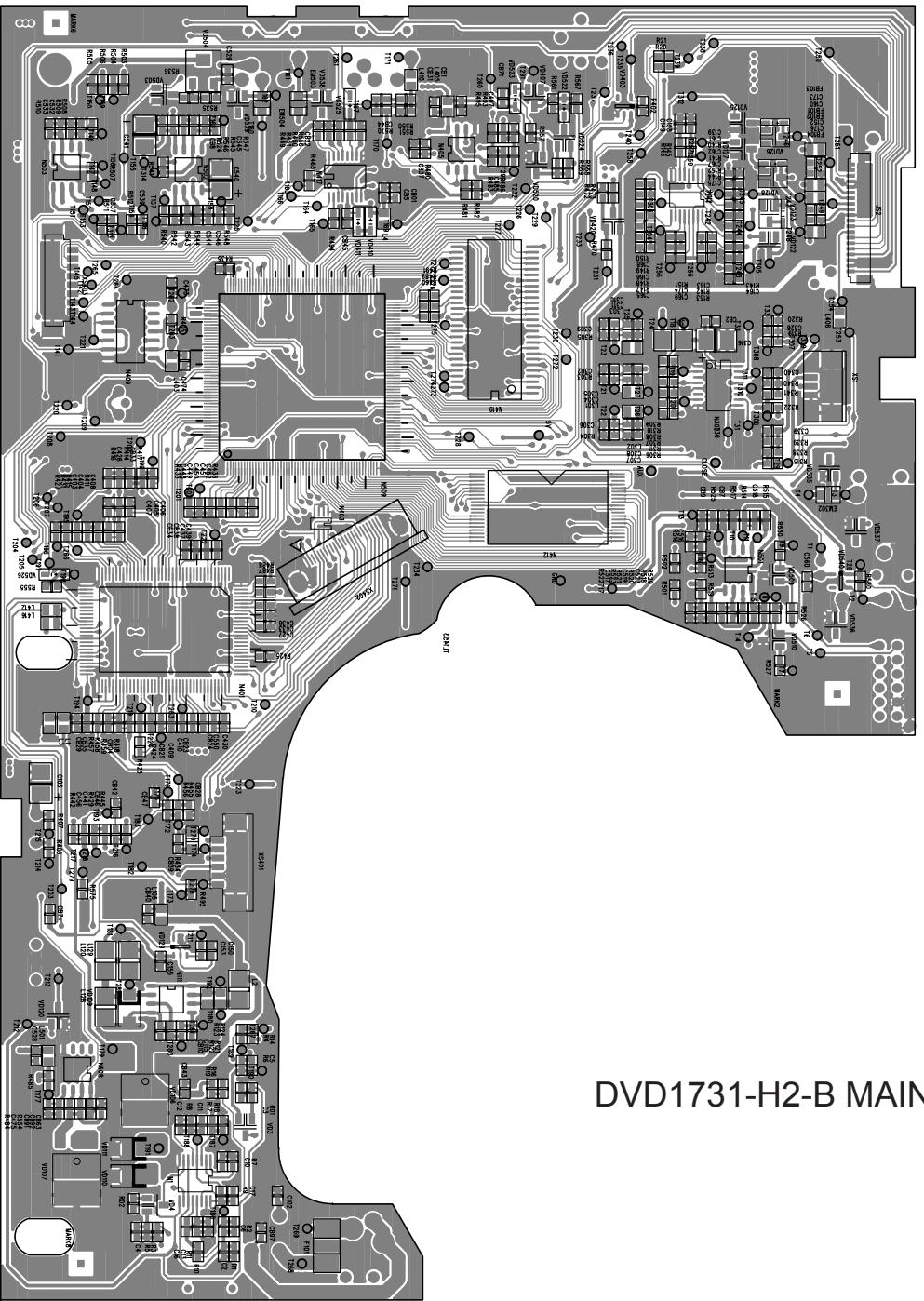
(1) Check the operation with a good battery.

Install a good battery and make sure the LED lights up orange while the AC adapter is connected. When the LED does not light up or blinks, check the connection of the battery harness inside the DVD player. If the connection is loose, repair connection. If the harness has been connected firmly, replace the main board.

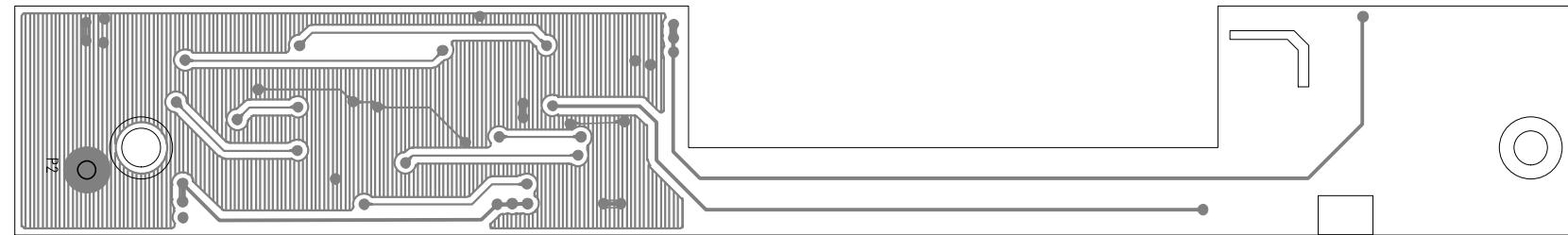
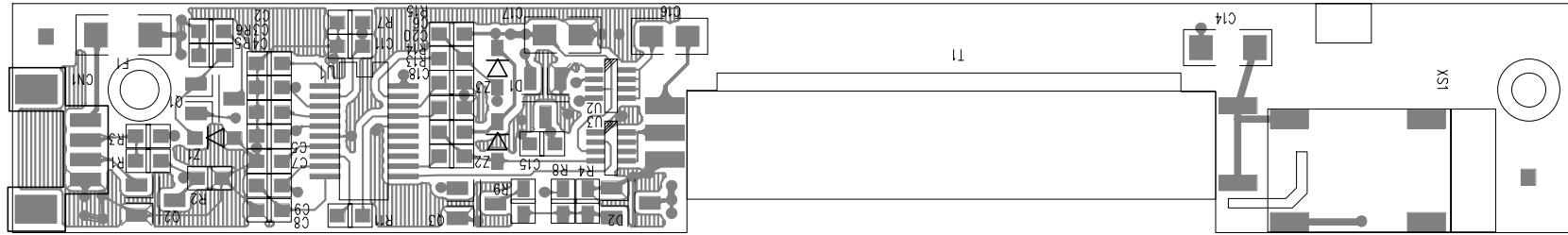
(2) Other than the above, replace the battery.

NOTE:

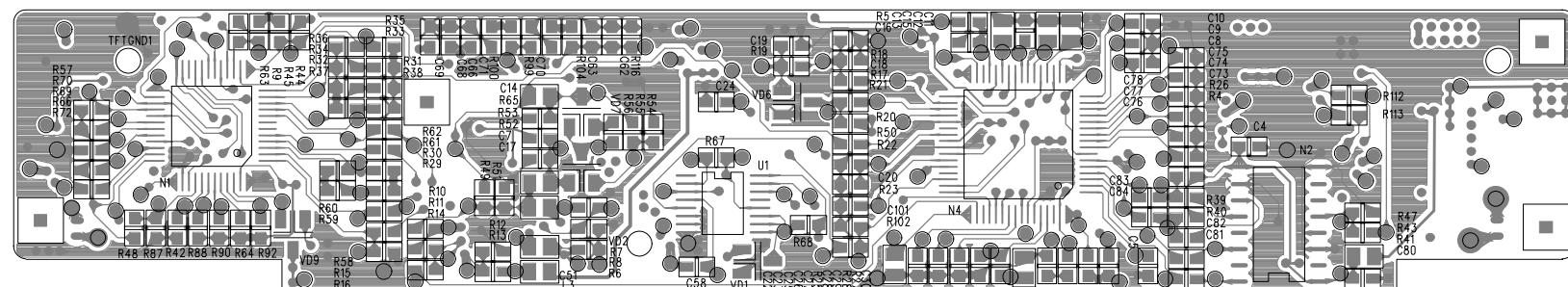
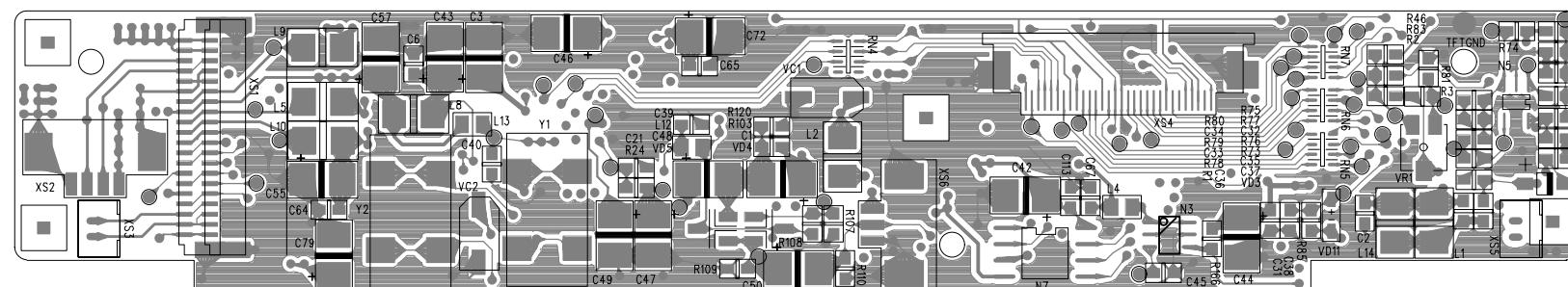
- For this check, use a battery which is not fully charged (because the LED does not light when the battery is fully charged.)
- Before this check, make sure other function work correctly.



DVD1731-H2-B MAIN PCB BOARD DIAGRAM



DVD1731H(PA) HV POWER PCB BOARD DIAGRAM



DVD1731T(PA) TFT PCB BOARD DIAGRAM

ELECTRICAL PARTS LIST

PART No.	PART NAME	Q'TY
SDP1731		
21057	CDQ-4 CHARGE ASS'Y	1
21116	LI-IONCHP-2 PROTECTOR	1
21186	D1731 KEY ASS'Y	1
21265	DVD1731-H2-B MAIN ASS'Y	1
21267	DVD1731T(PA) TFT ASS'Y	1
21268	DVD1731H(PA) HV ASS'Y	1
S2706	ICR18650 LITHIUM BATTERY	1
S5006	SPEAKER	2
S8064	KHM-252 LOADING ASS'Y	1
S0535	CAR CIGARETTE ADAPTER	1
S3421b	20 PIN HARNESS (LE160)	1
S0578e	ADPV18A AC POWER ADAPTER	1
S1593g	OWNER MANUAL	1
S06024	RC-1730 REMOTE	1
a7187a	LTA070B340A TFT LCD	1
S3181	BATTERY CONNECT ASS'Y	1
S3153	RCA CORD VIDEO	1
S3154	RCA CORD AUDIO	1
S3589	SPEAKER CONNECT WIRE	2
S3590	TFT EARTHING WIRE	1
S3545	HV POWER CONNECT WIRE	1
S3431	D5820 LITHIUM BATTERY CATHODE CONNECT WIRE	1
S3592a	DVD1731 LITHIUM BATTERY PUTPUT WIRE	1
S3501	FFC-0.5-24-130	1
S3098	DVD960 S-VIDEO WIER	1
S4353	EARPHONE	1
S3633	TFT SIGNAL WIRE	1

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
DVD1731 MAIN ASS'Y					
RESISTOR					
R1	P11038	Resistor chip 39K Ω	R142	P11015	Resistor chip 15K Ω
R2	P11040	Resistor chip 68K Ω	R143	P11006	Resistor chip 100 Ω
R3	P11029	Resistor chip 2.2K Ω	R144	P11058	Resistor chip 200K Ω
R4	P11029	Resistor chip 2.2K Ω	R145	P11008	Resistor chip 470 Ω
R5	P11029	Resistor chip 2.2K Ω	R146	P11008	Resistor chip 470 Ω
R6	P11029	Resistor chip 2.2K Ω	R147	P11040	Resistor chip 68K Ω
R7	P11013	Resistor chip 10K Ω	R148	P11040	Resistor chip 68K Ω
R8	P11038	Resistor chip 39K Ω	R149	P11040	Resistor chip 68K Ω
R9	P11038	Resistor chip 39K Ω	R150	P11040	Resistor chip 68K Ω
R01	P11013	Resistor chip 10K Ω	R151	P11142	Resistor chip 6.2K Ω
R02	P11013	Resistor chip 10K Ω	R152	P11019	Resistor chip 100K Ω
R10	P11038	Resistor chip 39K Ω	R153	P11035	Resistor chip 20K Ω
R11	P11038	Resistor chip 39K Ω	R180	P11010	Resistor chip 2K Ω
R12	P11006	Resistor chip 100 Ω	R303	P11048	Resistor chip 120 Ω
R13	P11006	Resistor chip 100 Ω	R304	P11048	Resistor chip 120 Ω
R14	P11039	Resistor chip 56K Ω	R305	P11048	Resistor chip 120 Ω
R15	P11039	Resistor chip 56K Ω	R306	P11118	Resistor chip 75K Ω
R16	P11035	Resistor chip 20K Ω	R307	P11118	Resistor chip 75K Ω
R17	P11038	Resistor chip 39K Ω	R308	P11022	Resistor chip 470K Ω
R18	P11034	Resistor chip 18K Ω	R309	P11118	Resistor chip 75K Ω
R19	P11040	Resistor chip 68K Ω	R310	P11022	Resistor chip 470K Ω
R20	P11004	Resistor chip 33 Ω	R311	P11022	Resistor chip 470K Ω
R21	P11004	Resistor chip 33 Ω	R312	P11004	Resistor chip 33 Ω
R22	P11013	Resistor chip 10K Ω	R315	P11003	Resistor chip 10 Ω
R559	P11012	Resistor chip 4.7K Ω	R319	P11003	Resistor chip 10 Ω
R560	P11008	Resistor chip 470 Ω	R322	P11003	Resistor chip 10 Ω
R567	P11006	Resistor chip 100 Ω	R338	P11003	Resistor chip 10 Ω
R568	P11019	Resistor chip 100K Ω	R341	P11003	Resistor chip 10 Ω
R570	P11071	Resistor chip 220 Ω	R401	P11006	Resistor chip 100 Ω
R571	P11013	Resistor chip 10K Ω	R402	P11018	Resistor chip 47K Ω
R575	P11013	Resistor chip 10K Ω	R405	P11023	Resistor chip 1M Ω
R577	P11009	Resistor chip 1K Ω	R406	P11003	Resistor chip 10 Ω
R580	P11013	Resistor chip 10K Ω	R407	P11013	Resistor chip 10K Ω
R112	P11018	Resistor chip 47K Ω	R413	P11003	Resistor chip 10 Ω
R125	P11010	Resistor chip 2K Ω	R414	P11019	Resistor chip 100K Ω
R129	P11000	Resistor chip 0 Ω	R415	P11000	Resistor chip 0 Ω
R140	P11020	Resistor chip 150K Ω	R417	P11034	Resistor chip 18K Ω
R141	P11142	Resistor chip 6.2K Ω	R419	P11207	Resistor chip 0.5 Ω
			R421	P11207	Resistor chip 0.5 Ω
			R425	P11015	Resistor chip 15K Ω

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R426	P11000	Resistor chip 0 Ω	R487	P11002	Resistor chip 4.7 Ω
R428	P11013	Resistor chip 10K Ω	R488	P11002	Resistor chip 4.7 Ω
R429	P11035	Resistor chip 20K Ω	R489	P11004	Resistor chip 33 Ω
R430	P11035	Resistor chip 20K Ω	R490	P11004	Resistor chip 33 Ω
R432	P11002	Resistor chip 4.7 Ω	R491	P11004	Resistor chip 33 Ω
R433	P11055	Resistor chip 8.2K Ω	R492	P11013	Resistor chip 10K Ω
R434	P11063	Resistor chip 1Ω	R494	P11004	Resistor chip 33 Ω
R435	P11029	Resistor chip 2.2K Ω	R501	P11018	Resistor chip 47K Ω
R436	P11035	Resistor chip 20K Ω	R502	P11018	Resistor chip 47K Ω
R438	P11122	Resistor chip 750K Ω	R503	P11000	Resistor chip 0 Ω
R440	P11035	Resistor chip 20K Ω	R506	P11000	Resistor chip 0 Ω
R442	P11038	Resistor chip 39K Ω	R507	P11020	Resistor chip 150K Ω
R443	P11000	Resistor chip 0 Ω	R508	P11020	Resistor chip 150K Ω
R444	P11013	Resistor chip 10K Ω	R509	P11013	Resistor chip 10K Ω
R445	P11015	Resistor chip 15K Ω	R510	P11013	Resistor chip 10K Ω
R449	P11013	Resistor chip 10K Ω	R511	P11002	Resistor chip 4.7 Ω
R450	P11013	Resistor chip 10K Ω	R512	P11002	Resistor chip 4.7 Ω
R451	P11013	Resistor chip 10K Ω	R513	P11032	Resistor chip 5.1K Ω
R452	P11002	Resistor chip 4.7 Ω	R514	P11031	Resistor chip 3.9K Ω
R453	P11002	Resistor chip 4.7 Ω	R515	P11013	Resistor chip 10K Ω
R454	P11013	Resistor chip 10K Ω	R516	P11019	Resistor chip 100K Ω
R455	P11019	Resistor chip 100K Ω	R517	P11013	Resistor chip 10K Ω
R456	P11009	Resistor chip 1K Ω	R518	P11006	Resistor chip 100 Ω
R457	P11023	Resistor chip 1M Ω	R519	P11032	Resistor chip 5.1K Ω
R458	P11013	Resistor chip 10K Ω	R520	P11013	Resistor chip 10K Ω
R459	P11009	Resistor chip 1K Ω	R521	P11031	Resistor chip 3.9K Ω
R460	P11004	Resistor chip 33 Ω	R522	P11019	Resistor chip 100K Ω
R462	P11038	Resistor chip 39K Ω	R523	P11013	Resistor chip 10K Ω
R463	P11013	Resistor chip 10K Ω	R524	P11002	Resistor chip 4.7 Ω
R464	P11013	Resistor chip 10K Ω	R525	P11003	Resistor chip 10 Ω
R465	P11004	Resistor chip 33 Ω	R526	P11009	Resistor chip 1K Ω
R470	P11012	Resistor chip 4.7K Ω	R527	P11009	Resistor chip 1K Ω
R471	P11013	Resistor chip 10K Ω	R529	P11006	Resistor chip 100 Ω
R472	P11013	Resistor chip 10K Ω	R530	P11006	Resistor chip 100 Ω
R473	P11006	Resistor chip 100 Ω	R535	P11034	Resistor chip 18K Ω
R476	P11004	Resistor chip 33 Ω	R536	P11009	Resistor chip 1K Ω
R481	P11013	Resistor chip 10K Ω	R540	P11013	Resistor chip 10K Ω
R482	P11003	Resistor chip 10 Ω	R541	P11013	Resistor chip 10K Ω
R484	P11057	Resistor chip 51K Ω	R542	P11013	Resistor chip 10K Ω
R485	P11018	Resistor chip 47K Ω	R543	P11019	Resistor chip 100K Ω

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R544	P11055	Resistor chip 8.2K Ω	C141	P30014	Electrolytic CAP 100uF/16V
R545	P11019	Resistor chip 100K Ω	C142	P30014	Electrolytic CAP 100uF/16V
R546	P11013	Resistor chip 10K Ω	C143	P30014	Electrolytic CAP 100uF/16V
R547	P11055	Resistor chip 8.2K Ω	C149	P20053	Capacitor chip 68pF
R548	P11002	Resistor chip 4.7 Ω	C150	P20035	Capacitor chip 1uF
R550	P11024	Resistor chip 330 Ω	C152	P20015	Capacitor chip 0.1uF
R551	P11006	Resistor chip 100 Ω	C153	P20035	Capacitor chip 1uF
R554	P11009	Resistor chip 1K Ω	C155	P20035	Capacitor chip 1uF
R555	P11009	Resistor chip 1K Ω	C157	P20015	Capacitor chip 0.1uF
R556	P11009	Resistor chip 1K Ω	C158	P20053	Capacitor chip 68pF
R557	P11009	Resistor chip 1K Ω	C160	P20015	Capacitor chip 0.1uF
R558	P11013	Resistor chip 10K Ω	C161	P20015	Capacitor chip 0.1uF
L4	P11002	Resistor chip 4.7 Ω	C162	P20015	Capacitor chip 0.1uF
RN419	P11206	Row of resistor 22 Ω	C163	P20015	Capacitor chip 0.1uF
CAPACITOR					
C3	P20015	Capacitor chip 0.1uF	C164	P20053	Capacitor chip 68pF
C4	P20012	Capacitor chip 0.01uF	C165	P20029	Capacitor chip 330pF
C5	P20012	Capacitor chip 0.01uF	C166	P20015	Capacitor chip 0.1uF
C6	P20035	Capacitor chip 1uF	C167	P20015	Capacitor chip 0.1uF
C10	P20033	Capacitor chip 200pF	C168	P20029	Capacitor chip 330pF
C11	P20015	Capacitor chip 0.1uF	C169	P20015	Capacitor chip 0.1uF
C12	P20035	Capacitor chip 1uF	C173	P20015	Capacitor chip 0.1uF
C13	P20035	Capacitor chip 1uF	C174	P20027	Capacitor chip 150pF
C14	P30003	Electrolytic CAP 100uF/6V	C175	P20015	Capacitor chip 0.1uF
C15	P31002	Electrolytic CAP 10uF/16V(Ta)	C176	P20015	Capacitor chip 0.1uF
C16	P20015	Capacitor chip 0.1uF	C178	P30014	Electrolytic CAP 100uF/16V
C17	P20015	Capacitor chip 0.1uF	C179	P30014	Electrolytic CAP 100uF/16V
C18	P20009	Capacitor chip 1000pF	C181	P30014	Electrolytic CAP 100uF/16V
C20	P20009	Capacitor chip 1000pF	C182	P30014	Electrolytic CAP 100uF/16V
C101	P30014	Electrolytic CAP 100uF/16V	C188	P31088	Electrolytic CAP 220uF/6V
C102	P20015	Capacitor chip 0.1uF	C303	P30014	Electrolytic CAP 100uF/16V
C110	P30014	Electrolytic CAP 100uF/16V	C304	P20002	Capacitor chip 22pF
C112	P30014	Electrolytic CAP 100uF/16V	C305	P20033	Capacitor chip 200pF
C115	P20008	Capacitor chip 470pF	C307	P20033	Capacitor chip 200pF
C124	P30014	Electrolytic CAP 100uF/16V	C308	P20002	Capacitor chip 22pF
C128	P30003	Electrolytic CAP 100uF/6V	C310	P20033	Capacitor chip 200pF
C130	P20015	Capacitor chip 0.1uF	C311	P20002	Capacitor chip 22pF
C131	P30014	Electrolytic CAP 100uF/16V	C312	P31009	Electrolytic CAP 100uF/4V
C132	P30014	Electrolytic CAP 100uF/16V	C313	P31009	Electrolytic CAP 100uF/4V
C139	P20015	Capacitor chip 0.1uF	C314	P30006	Electrolytic CAP 47uF/4V
			C315	P31009	Electrolytic CAP 100uF/4V

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
C317	P30004	Electrolytic CAP 220uF/4V	C467	P31002	Electrolytic CAP 10uF/16V(Ta)
C318	P30006	Electrolytic CAP 47uF/4V	C471	P20051	Capacitor chip 5.1pF
C319	P30006	Electrolytic CAP 47uF/4V	C472	P20009	Capacitor chip 1000pF
C320	P30004	Electrolytic CAP 220uF/4V	C473	P20051	Capacitor chip 5.1pF
C321	P30004	Electrolytic CAP 220uF/4V	C474	P20002	Capacitor chip 22pF
C322	P30014	Electrolytic CAP 100uF/16V	C475	P20015	Capacitor chip 0.1uF
C403	P20061	Capacitor chip 0.015uF	C476	P30010	Electrolytic CAP 10uF/16V(AL)
C405	P20034j	Capacitor chip 390pF	C480	P20015	Capacitor chip 0.1uF
C406	P20015	Capacitor chip 0.1uF	C493	P30014	Electrolytic CAP 100uF/16V
C408	P20049	Capacitor chip 33000pF	C495	P31002	Electrolytic CAP 10uF/16V(Ta)
C412	P31002	Electrolytic CAP 10uF/16V(Ta)	C496	P30006	Electrolytic CAP 47uF/4V
C417	P31002	Electrolytic CAP 10uF/16V(Ta)	C498	P31002	Electrolytic CAP 10uF/16V(Ta)
C418	P20035	Capacitor chip 1uF	C499	P31002	Electrolytic CAP 10uF/16V(Ta)
C419	P20035	Capacitor chip 1uF	C500	P31002	Electrolytic CAP 10uF/16V(Ta)
C420	P20035	Capacitor chip 1uF	C501	P30006	Electrolytic CAP 47uF/4V
C421	P20035	Capacitor chip 1uF	C502	P30006	Electrolytic CAP 47uF/4V
C426	P20009	Capacitor chip 1000pF	C503	P30014	Electrolytic CAP 100uF/16V
C427	P20061	Capacitor chip 0.015uF	C505	P30006	Electrolytic CAP 47uF/4V
C433	P20061	Capacitor chip 0.015uF	C506	P30006	Electrolytic CAP 47uF/4V
C436	P20061	Capacitor chip 0.015uF	C507	P30014	Electrolytic CAP 100uF/16V
C437	P20009	Capacitor chip 1000pF	C508	P30006	Electrolytic CAP 47uF/4V
C439	P20009	Capacitor chip 1000pF	C509	P30006	Electrolytic CAP 47uF/4V
C441	P20027	Capacitor chip 150pF	C510	P30002	Electrolytic CAP 47uF/6V
C442	P20027	Capacitor chip 150pF	C511	a3690	Electrolytic CAP 220uF/10V
C443	P31088	Electrolytic CAP 220uF/6V	C512	P30010	Electrolytic CAP 10uF/16V(AL)
C444	P31002	Electrolytic CAP 10uF/16V(Ta)	C513	P30010	Electrolytic CAP 10uF/16V(AL)
C445	P20009	Capacitor chip 1000pF	C514	P30014	Electrolytic CAP 100uF/16V
C446	P20012	Capacitor chip 0.01uF	C516	P20030	Capacitor chip 2700pF
C447	P20035	Capacitor chip 1uF	C517	P20030	Capacitor chip 2700pF
C448	P20012	Capacitor chip 0.01uF	C518	P20048	Capacitor chip 300pF
C449	P20012	Capacitor chip 0.01uF	C519	P20048	Capacitor chip 300pF
C450	P20012	Capacitor chip 0.01uF	C523	P20015	Capacitor chip 0.1uF
C451	P20012	Capacitor chip 0.01uF	C528	P20015	Capacitor chip 0.1uF
C452	P20015	Capacitor chip 0.1uF	C529	P20015	Capacitor chip 0.1uF
C453	P31002	Electrolytic CAP 10uF/16V(Ta)	C530	P20015	Capacitor chip 0.1uF
C455	P20029	Capacitor chip 330pF	C531	P30014	Electrolytic CAP 100uF/16V
C456	P20009	Capacitor chip 1000pF	C532	P20043	Capacitor chip 3300pF
C457	P20061	Capacitor chip 0.015uF	C533	P20043	Capacitor chip 3300pF
C461	P30003	Electrolytic CAP 100uF/6V	C534	P30002	Electrolytic CAP 47uF/6V
C466	P20057	Adjustable capacitor	C535	P30002	Electrolytic CAP 47uF/6V

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
C536	P30014	Electrolytic CAP 100uF/16V	CB15	P20015	Capacitor chip 0.1uF
C537	P20015	Capacitor chip 0.1uF	CB16	P20015	Capacitor chip 0.1uF
C538	P30014	Electrolytic CAP 100uF/16V	CB17	P20015	Capacitor chip 0.1uF
C539	P20015	Capacitor chip 0.1uF	CB18	P20015	Capacitor chip 0.1uF
C540	P31002	Electrolytic CAP 10uF/16V(Ta)	CB19	P20015	Capacitor chip 0.1uF
C541	P31002	Electrolytic CAP 10uF/16V(Ta)	CB20	P20015	Capacitor chip 0.1uF
C544	P20064	Capacitor chip 51pF	CB21	P20008	Capacitor chip 470pF
C545	P20064	Capacitor chip 51pF	CB22	P20015	Capacitor chip 0.1uF
C546	P20015	Capacitor chip 0.1uF	CB23	P20015	Capacitor chip 0.1uF
C550	P20059	Capacitor chip 4700pF	CB24	P20015	Capacitor chip 0.1uF
C551	P31002	Electrolytic CAP 10uF/16V(Ta)	CB25	P20015	Capacitor chip 0.1uF
C552	P31002	Electrolytic CAP 10uF/16V(Ta)	CB26	P20015	Capacitor chip 0.1uF
C553	P31002	Electrolytic CAP 10uF/16V(Ta)	CB27	P20015	Capacitor chip 0.1uF
C555	P30004	Electrolytic CAP 220uF/4V	CB28	P20015	Capacitor chip 0.1uF
C556	P30004	Electrolytic CAP 220uF/4V	CB29	P20015	Capacitor chip 0.1uF
C557	P31002	Electrolytic CAP 10uF/16V(Ta)	CB30	P20015	Capacitor chip 0.1uF
C559	P31002	Electrolytic CAP 10uF/16V(Ta)	CB31	P20015	Capacitor chip 0.1uF
C560	P20015	Capacitor chip 0.1uF	CB32	P20015	Capacitor chip 0.1uF
CB1	P20015	Capacitor chip 0.1uF	CB33	P20015	Capacitor chip 0.1uF
CB2	P20015	Capacitor chip 0.1uF	CB34	P20015	Capacitor chip 0.1uF
CB4	P20015	Capacitor chip 0.1uF	CB35	P20015	Capacitor chip 0.1uF
CB5	P20015	Capacitor chip 0.1uF	CB36	P20015	Capacitor chip 0.1uF
CB6	P20015	Capacitor chip 0.1uF	CB37	P20015	Capacitor chip 0.1uF
CB7	P20015	Capacitor chip 0.1uF	CB38	P20015	Capacitor chip 0.1uF
CB8	P20015	Capacitor chip 0.1uF	CB39	P20015	Capacitor chip 0.1uF
CB9	P20015	Capacitor chip 0.1uF	CB40	P20015	Capacitor chip 0.1uF
CB01	P20015	Capacitor chip 0.1uF	CB41	P20015	Capacitor chip 0.1uF
CB02	P20015	Capacitor chip 0.1uF	CB42	P20015	Capacitor chip 0.1uF
CB03	P20015	Capacitor chip 0.1uF	CB43	P20015	Capacitor chip 0.1uF
CB04	P20015	Capacitor chip 0.1uF	CB44	P20015	Capacitor chip 0.1uF
CB05	P20015	Capacitor chip 0.1uF	CB45	P20015	Capacitor chip 0.1uF
CB06	P20015	Capacitor chip 0.1uF	CB46	P20015	Capacitor chip 0.1uF
CB07	P20015	Capacitor chip 0.1uF	CB48	P20015	Capacitor chip 0.1uF
CB08	P20015	Capacitor chip 0.1uF	CB52	P20015	Capacitor chip 0.1uF
CB09	P20015	Capacitor chip 0.1uF	CB53	P20015	Capacitor chip 0.1uF
CB10	P20015	Capacitor chip 0.1uF	CB54	P20015	Capacitor chip 0.1uF
CB11	P20015	Capacitor chip 0.1uF	CB55	P20015	Capacitor chip 0.1uF
CB12	P20015	Capacitor chip 0.1uF	CB56	P20015	Capacitor chip 0.1uF
CB13	P20015	Capacitor chip 0.1uF	CB58	P20015	Capacitor chip 0.1uF
CB14	P20015	Capacitor chip 0.1uF	CB63	P20015	Capacitor chip 0.1uF

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
CB64	P20015	Capacitor chip 0.1uF	L302	P6808	1.0uH
CB65	P20015	Capacitor chip 0.1uF	L303	P6808	1.0uH
CB47	P20015	Capacitor chip 0.1uF	L304	P6681	100uH
CB57	P20015	Capacitor chip 0.1uF	L406	P6659	Impedance at 100MHz:600 Ω
CB59	P20015	Capacitor chip 0.1uF	L407	P6659	Impedance at 100MHz:600 Ω
CB70	P20015	Capacitor chip 0.1uF	L409	P6817	Impedance at 100MHz:60 Ω
CB71	P20015	Capacitor chip 0.1uF	L410	P6659	Impedance at 100MHz:600 Ω
CB73	P20015	Capacitor chip 0.1uF	L416	P6659	Impedance at 100MHz:600 Ω
CB74	P20015	Capacitor chip 0.1uF	L419	P6659	Impedance at 100MHz:600 Ω
CB77	P20015	Capacitor chip 0.1uF	L420	P6659	Impedance at 100MHz:600 Ω
CB82	P20015	Capacitor chip 0.1uF	L430	P6659	Impedance at 100MHz:600 Ω
CB86	P20015	Capacitor chip 0.1uF	L435	P6659	Impedance at 100MHz:600 Ω
CB87	P20015	Capacitor chip 0.1uF	L501	P6659	Impedance at 100MHz:600 Ω
CB91	P20009	Capacitor chip 1000pF	L502	P6681	100uH
CB92	P20015	Capacitor chip 0.1uF	L503	P6659	Impedance at 100MHz:600 Ω
CB95	P20015	Capacitor chip 0.1uF	L504	P6659	Impedance at 100MHz:600 Ω
CB96	P20015	Capacitor chip 0.1uF	L600	a7369	LGA0307TB-100K
CB98	P20015	Capacitor chip 0.1uF	FB101	P6659	Impedance at 100MHz:600 Ω
INDUCTOR			FB102	P6659	Impedance at 100MHz:600 Ω
EM302	P60006	FK2125T186AL	FB103	P6659	Impedance at 100MHz:600Ω
EM401	P60006	FK2125T186AL	FB104	P6659	Impedance at 100MHz:600Ω
EM402	P60006	FK2125T186AL	TRANSISTOR		
EM407	P60006	FK2125T186AL	VD3	P5073a	2SD601AR
EM503	P60006	FK2125T186AL	VD4	P5073a	2SD601AR
EM504	P60006	FK2125T186AL	VD5	P5702	XN4601
EM506	P60006	FK2125T186AL	VD6	P5702	XN4601
EM507	P60006	FK2125T186AL	VD101	P1219	1N5402T
L3	P6659	Impedance at 100MHz:600 Ω	VD106	P90092	UPC29M05T-E1
L101	P60003	33uH	VD107	P90072	BA033FP
L102	P60003	33uH	VD110	P5722	RB060L-40
L105	P6659	Impedance at 100MHz:600 Ω	VD111	P5722	RB060L-40
L120	P6681	100uH	VD115	P1219	1N5402T
L125	P6659	Impedance at 100MHz:600 Ω	VD120	P5709	DTC124EUAT106
L130	P6679	10uH	VD122	P5700	2SB709AR
L131	P60039	470uH	VD123	P1556	MA152
L132	P60039	470uH	VD125	P5073a	2SD601AR
L133	P6679	10uH	VD126	P1556	MA152
L137	P6681	100uH	VD127	P5073a	2SD601AR
L140	P60003	33uH	VD128	P1556	MA152
L301	P6808	1.0uH	VD129	P90277	TPS60400

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
VD401	P1200	1SS355TE Switch Diode	N1	P4592	TL1453CPW
VD402	P5714	FMC3AT148	N008	P90090	PQ05DZ11
VD403	P5714	FMC3AT148	N102	P5759	IRF7304
VD404	P5067	KTA1298	N106	P90090	PQ05DZ11
VD406	P5067	KTA1298	N112	P90015	TPS5100IPWR
VD407	P5067	KTA1298	N302	P90110	BA7660FS
VD410	P1200	1SS355TE Switch Diode	N401	P90205	D2891
VD411	P1200	1SS355TE Switch Diode	N402	P90007	BA5954FP
VD420	P5067	KTA1298	N403	P4581	TC4W53FU
VD503	P5709	DTC124EUAT106	N406	a6733	HS0038B
VD504	P5769	2SB1561T100Q	N409	P4516	74HCU04
VD509	P5073a	2SD601AR	N412	P90157	MX29LV008TTC-90
VD510	P5073a	2SD601AR	N413	P4620a	BR24C02F-WE2
VD520	P5073a	2SD601AR	N417	P90129	PCM1742
VD521	P1200	1SS355TE Switch Diode	N419	P90074	NT56V6620COT-75S
VD522	P1200	1SS355TE Switch Diode	N501	P4530	NJM4558
VD523	P1200	1SS355TE Switch Diode	N502	P4513	NJM4580
VD524	P5067	KTA1298	N503	P4535	CD2822CB
VD525	P1200	1SS355TE Switch Diode	N508	P4530	NJM4558
VD526	P1200	1SS355TE Switch Diode	N509	P90204	D2881
VD535	P5766	STZ6.2NT146			SOCKET
VD536	P5766	STZ6.2NT146	XS1	P60041	53261-0390 3P SOCKET
VD537	P5766	STZ6.2NT146	XS401	P60061	53261-0690 6P SOCKET
VD538	P5766	STZ6.2NT146	XS402	P6971	FPL0.5B-SMT-24 24P SOCKET
VD539	P5766	STZ6.2NT146	XS403	P60081	53261-0890 8P SOCKET
VD540	P5714	FMC3AT148	XS405	P6981	MOLEX-53261-0490
FUSE			JS2	P60083	SM20B-SURS-TF SOCKET
F101	P60047	FUSE 452003	JS101	a6663a	HEC3600-010110 SOCKET
FILTER			JS301	a6662	HSJ1715-01-110 SOCKET
FM102	a6916	LV-R0489 FILTER	JS302	a6674	HSJ1456-010335 SOCKET
CRYSTAL OSCILLATOR			JS402	a6704	HSJ1494-01-010 SOCKET
G401	a6603a	27.000MHz	JS502	a7221	GPIFD310TP
POTENTIOMETERS			JS503	a6704	HSJ1494-01-010 SOCKET
VR2	a0654	WHE10xB-2-20K	DVD1731T(PA) TFT ASS'Y		
SWITCH			RESISTOR		
SW101	P60078	SSSS710603	R1	P11022	Resistor chip 470K Ω
SW102	a6683	ESE11SV1	R4	P11053	Resistor chip 5.6K Ω
SW103	a6683	ESE11SV1	R5	P11003	Resistor chip 10 Ω
SW401	a6846	2W4D-3.5	R6	P11022	Resistor chip 470K Ω
IC			R7	P11013	Resistor chip 10K Ω

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R8	P11013	Resistor chip 10K Ω	R70	P11000	Resistor chip 0 Ω
R9	P11000	Resistor chip 0 Ω	R72	P11000	Resistor chip 0 Ω
R10	P11015	Resistor chip 15K Ω	R73	P11012	Resistor chip 4.7K Ω
R11	P11035	Resistor chip 20K Ω	R74	P11011	Resistor chip 3.3K Ω
R12	P11018	Resistor chip 47K Ω	R75	P11018	Resistor chip 47K Ω
R13	P11074	Resistor chip 180K Ω	R76	P11040	Resistor chip 68K Ω
R14	P11013	Resistor chip 10K Ω	R77	P11029	Resistor chip 2.2K Ω
R17	P11041	Resistor chip 82K Ω	R78	P11006	Resistor chip 100 Ω
R18	P11058	Resistor chip 200K Ω	R79	P11036	Resistor chip 22K Ω
R19	P11041	Resistor chip 82K Ω	R80	P11023	Resistor chip 1M Ω
R20	P11013	Resistor chip 10K Ω	R81	P11000	Resistor chip 0 Ω
R21	P11006	Resistor chip 100 Ω	R85	P11037	Resistor chip 27K Ω
R22	P11023	Resistor chip 1M Ω	R100	P11000	Resistor chip 0 Ω
R23	P11013	Resistor chip 10K Ω	R102	P11024	Resistor chip 330 Ω
R24	P11011	Resistor chip 3.3K Ω	R103	P11040	Resistor chip 68K Ω
R25	P11032	Resistor chip 5.1K Ω	R104	P11012	Resistor chip 4.7K Ω
R26	P11053	Resistor chip 5.6K Ω	R107	P11017	Resistor chip 33K Ω
R29	P11000	Resistor chip 0 Ω	R108	P11015	Resistor chip 15K Ω
R31	P11000	Resistor chip 0 Ω	R109	P11059	Resistor chip 330K Ω
R34	P11000	Resistor chip 0 Ω	R110	P11005	Resistor chip 75 Ω
R37	P11000	Resistor chip 0 Ω	R112	P11004	Resistor chip 33 Ω
R39	P11053	Resistor chip 5.6K Ω	R113	P11004	Resistor chip 33 Ω
R40	P11053	Resistor chip 5.6K Ω	R116	P11012	Resistor chip 4.7K Ω
R41	P11050	Resistor chip 560 Ω	R120	P11006	Resistor chip 100 Ω
R42	P11000	Resistor chip 0 Ω	R166	P11003	Resistor chip 10 Ω
R43	P11006	Resistor chip 100 Ω	C76	P11000	Resistor chip 0 Ω
R45	P11000	Resistor chip 0 Ω	C77	P11000	Resistor chip 0 Ω
R46	P11000	Resistor chip 0 Ω	C78	P11000	Resistor chip 0 Ω
R48	P11000	Resistor chip 0 Ω	L12	P11000	Resistor chip 0 Ω
R49	P11000	Resistor chip 0 Ω	L13	P11000	Resistor chip 0 Ω
R50	P11006	Resistor chip 100 Ω	RN4	P1006	Row of resistor 100 Ω
R57	P11000	Resistor chip 0 Ω	RN5	P1006	Row of resistor 100 Ω
R58	P11000	Resistor chip 0 Ω	RN6	P1006	Row of resistor 100 Ω
R61	P11000	Resistor chip 0 Ω	RN7	P1006	Row of resistor 100 Ω
R62	P11000	Resistor chip 0 Ω	CAPACITOR		
R64	P11000	Resistor chip 0 Ω	C1	P31002	Electrolytic CAP 10uF/16V(Ta)
R66	P11000	Resistor chip 0 Ω	C2	P20003	Capacitor chip 27pF
R67	P11010	Resistor chip 2K Ω	C3	P31002	Electrolytic CAP 10uF/16V(Ta)
R68	P11013	Resistor chip 10K Ω	C4	P20084	Capacitor chip 0.15uF
R69	P11000	Resistor chip 0 Ω	C6	P20015	Capacitor chip 0.1uF

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
C8	P20035	Capacitor chip 1uF	C62	P20015	Capacitor chip 0.1uF
C9	P20035	Capacitor chip 1uF	C63	P20012	Capacitor chip 0.01uF
C10	P20035	Capacitor chip 1uF	C64	P20015	Capacitor chip 0.1uF
C11	P20085	Capacitor chip 2.2uF	C65	P20015	Capacitor chip 0.1uF
C12	P20085	Capacitor chip 2.2uF	C66	P20015	Capacitor chip 0.1uF
C13	P20085	Capacitor chip 2.2uF	C67	P20015	Capacitor chip 0.1uF
C15	P20012	Capacitor chip 0.01uF	C68	P20015	Capacitor chip 0.1uF
C16	P20015	Capacitor chip 0.1uF	C69	P20015	Capacitor chip 0.1uF
C17	P20085	Capacitor chip 2.2uF	C70	P20015	Capacitor chip 0.1uF
C18	P20040	Capacitor chip 680pF	C71	P20015	Capacitor chip 0.1uF
C19	P20040	Capacitor chip 680pF	C72	P31002	Electrolytic CAP 10uF/16V(Ta)
C20	P20013	Capacitor chip 0.022uF	C73	P20035	Capacitor chip 1uF
C21	P20013	Capacitor chip 0.022uF	C74	P20035	Capacitor chip 1uF
C22	P20085	Capacitor chip 2.2uF	C75	P20035	Capacitor chip 1uF
C23	P20015	Capacitor chip 0.1uF	C79	P31002	Electrolytic CAP 10uF/16V(Ta)
C24	P20002	Capacitor chip 22pF	C80	P20084	Capacitor chip 0.15uF
C25	P20015	Capacitor chip 0.1uF	C81	P20009	Capacitor chip 1000pF
C26	P20015	Capacitor chip 0.1uF	C82	P20009	Capacitor chip 1000pF
C27	P20091	Capacitor chip 0.02uF	C83	P20084	Capacitor chip 0.15uF
C28	P20085	Capacitor chip 2.2uF	C84	P20084	Capacitor chip 0.15uF
C29	P20086	Capacitor chip 3pF	C101	P20039	Capacitor chip 82pF
C30	P20051	Capacitor chip 5.1pF	C113	P20015	Capacitor chip 0.1uF
C31	P20015	Capacitor chip 0.1uF	POTENTIOMETERS		
C32	P20015	Capacitor chip 0.1uF	VR1	P0620	POZ3AN-1-503N-T00
C33	P20015	Capacitor chip 0.1uF	INDUCTOR		
C34	P20046	Capacitor chip 560pF	L1	P60034	2.7uH
C35	P20015	Capacitor chip 0.1uF	L2	P6698	33uH
C36	P20042	Capacitor chip 2200pF	L3	P6659	Impedance at 100MHz:600 Ω
C37	P20009	Capacitor chip 1000pF	L4	P6659	Impedance at 100MHz:600 Ω
C38	P20015	Capacitor chip 0.1uF	L5	P6699	22uH
C45	P20015	Capacitor chip 0.1uF	L8	P6699	22uH
C46	P31002	Electrolytic CAP 10uF/16V(Ta)	L9	P6699	22uH
C47	P31002	Electrolytic CAP 10uF/16V(Ta)	L10	P6699	22uH
C48	P31002	Electrolytic CAP 10uF/16V(Ta)	L14	P60034	2.7uH
C49	P31002	Electrolytic CAP 10uF/16V(Ta)	TRANSISTOR		
C50	P31002	Electrolytic CAP 10uF/16V(Ta)	VD1	P5706	DTC144EUAT106
C51	P20085	Capacitor chip 2.2uF	VD3	P1214	MA355
C55	P31002	Electrolytic CAP 10uF/16V(Ta)	VD4	P5073a	2SD601AR
C57	P31002	Electrolytic CAP 10uF/16V(Ta)	VD5	P5073a	2SD601AR
C58	P20015	Capacitor chip 0.1uF	VD6	P5073a	2SD601AR

REF No.	PART No.	PART NAME
VD9	P5709	DTC124EUAT106
VD11	P1200	1SS355TE Switch Diode
IC		
N1	P90199	MN5814
N2	P90269	TDA4665
N3	P90113	PQ1R33
N4	P90198	AN2546FH
N5	P4586	NJM2107
N7	P4513	NJM4580E
U1	P90023	BU4053BCFV-E2
CRYSTAL OSCILLATOR		
Y1	P60069	CX-5F-3.579545MHz
Y2	P60070	CX-5F-4.433619MHz
SOCKET		
XS1	P60083	SM20B-SURS-TF SOCKET
XS2	P6981	MOLEX-53261-0490 SOCKET
XS4	P6849	MOLEX-52437-3091 SOCKET
XS6	P60041	53261-0390 3P SOCKET
DVD1731H(PA) HV ASS'Y		
RESISTOR		
R1	P11023	Resistor chip 1M Ω
R2	P11023	Resistor chip 1M Ω
R3	P11013	Resistor chip 10K Ω
R4	P11051	Resistor chip 1.5K Ω
R5	P11026	Resistor chip 1.2K Ω
R6	P11006	Resistor chip 100 Ω
R7	P11060	Resistor chip 560K Ω
R8	P11209	Resistor chip 43K Ω
R9	P11029	Resistor chip 2.2K Ω
R11	P11156	Resistor chip 300K Ω
R13	P11013	Resistor chip 10K Ω
R14	P11057	Resistor chip 51K Ω
R15	P11013	Resistor chip 10K Ω
CAPACITOR		
C2	P20035	Capacitor chip 1uF
C3	P20012	Capacitor chip 0.01uF
C4	P20015	Capacitor chip 0.1uF
C5	P20035	Capacitor chip 1uF
C6	P20014	Capacitor chip 47000pF
C7	P20006	Capacitor chip 100pF

REF No.	PART No.	PART NAME
C8	P20010	Capacitor chip 1500pF
C9	P20012	Capacitor chip 0.01uF
C11	P20043	Capacitor chip 3300pF
C14	P20031a	GHM1038SL120J3K
C15	P20013	Capacitor chip 0.022uF
C16	P20021	Capacitor chip 4.7uF
C17	P20023	Capacitor chip 10uF
C18	P20014	Capacitor chip 47000pF
C20	P20028	Capacitor chip 220pF
IC		
U1	P90100	OZ960S
U2	P90102	SI5504DC
U3	P90102	SI5504DC
TRANSFORMER		
T1	P7043	CI8.5 TRANSFORMER
TRANSISTOR		
D1	P1557	DAN217T146
D2	P1557	DAN217T146
Q1	P5750	MMST3904T146
Q2	P5706	DTC144EUAT106
Q3	P5749	RK7002T116
Z1	P1558	UDZSTE-175.6B
Z2	P1558	UDZSTE-175.6B
Z3	P1558	UDZSTE-175.6B
OTHER		
F1	a7276	K12 FUSE
CN1	P6981	MOLEX-53261-0490 SOCKET
XS1	P7045	BES-2P
CDQ-4 CHARGE ASS'Y		
RESISTOR		
R1	P11042	Resistor chip 120K Ω
R2	P11019	Resistor chip 100K Ω
R3	P11051	Resistor chip 1.5K Ω
R4	P11009	Resistor chip 1K Ω
R5	P11039	Resistor chip 56K Ω
R6	P11038	Resistor chip 39K Ω
R7	P11057	Resistor chip 51K Ω
R8	P11057	Resistor chip 51K Ω
R9	P11051	Resistor chip 1.5K Ω
CON1	P0998	Resistor chip 0 Ω

REF No.	PART No.	PART NAME
CON3	P0998	Resistor chip 0 Ω
CAPACITOR		
C1	P20015	Capacitor chip 0.1uF
C2	P20015	Capacitor chip 0.1uF
C3	P20009	Capacitor chip 1000pF
AC1	a3500	CDV-100uF-M-10V
POTENTIOMETERS		
VR1	P0619	POZ3AN-1-502N-T
TRANSISTOR		
VP1	P5767	IRF5305S
D1	P1226	U5FWK2C42
IC1	P90103	BQ2057CTSTR
Q1	P5708	DTA124EUAT106
OTHER		
J1	a6663	HEC3600-010110
J2	a6663	HEC3600-010110
LED	a1604	LED
LI-IONCHP-2 PROTECTOR		
RESISTOR		
R1	P11009	Resistor chip 1K Ω
R2	P11009	Resistor chip 1K Ω
R3	P11009	Resistor chip 1K Ω
R4	P11009	Resistor chip 1K Ω
R5	P11131	Resistor chip 4.7M Ω
CAPACITOR		
C1	P20044	Capacitor chip 0.22uF
C2	P20044	Capacitor chip 0.22uF
C3	P20044	Capacitor chip 0.22uF
OTHER		
IC1	P90046a	S8232ABFT
VD1	P90094	TPC8207
F1	P60045	FUSE 451005