

SERVICE MANUAL

MODEL
DVD5860

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.

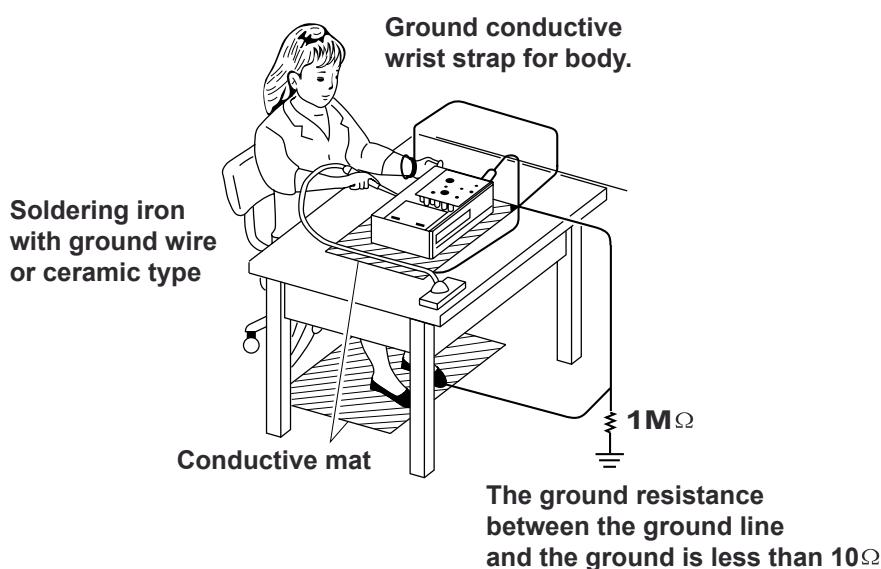
When the power supply is being turned on, you may not remove this laser cautions label. If it removes, radiation of laser may be received.

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

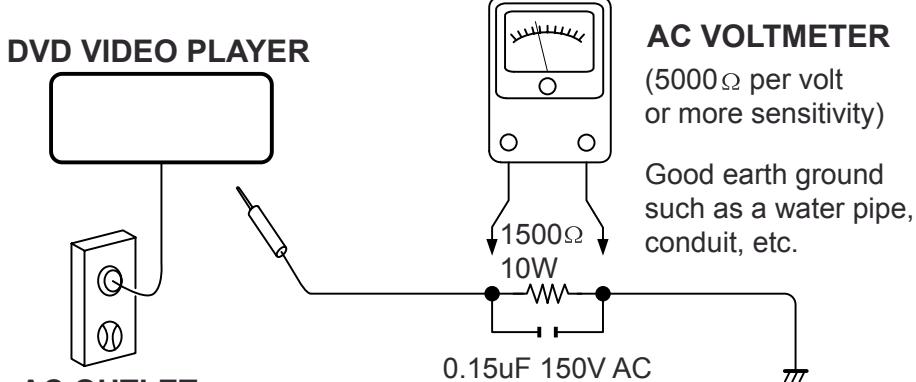
SAFTY PRECAUTIONS

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

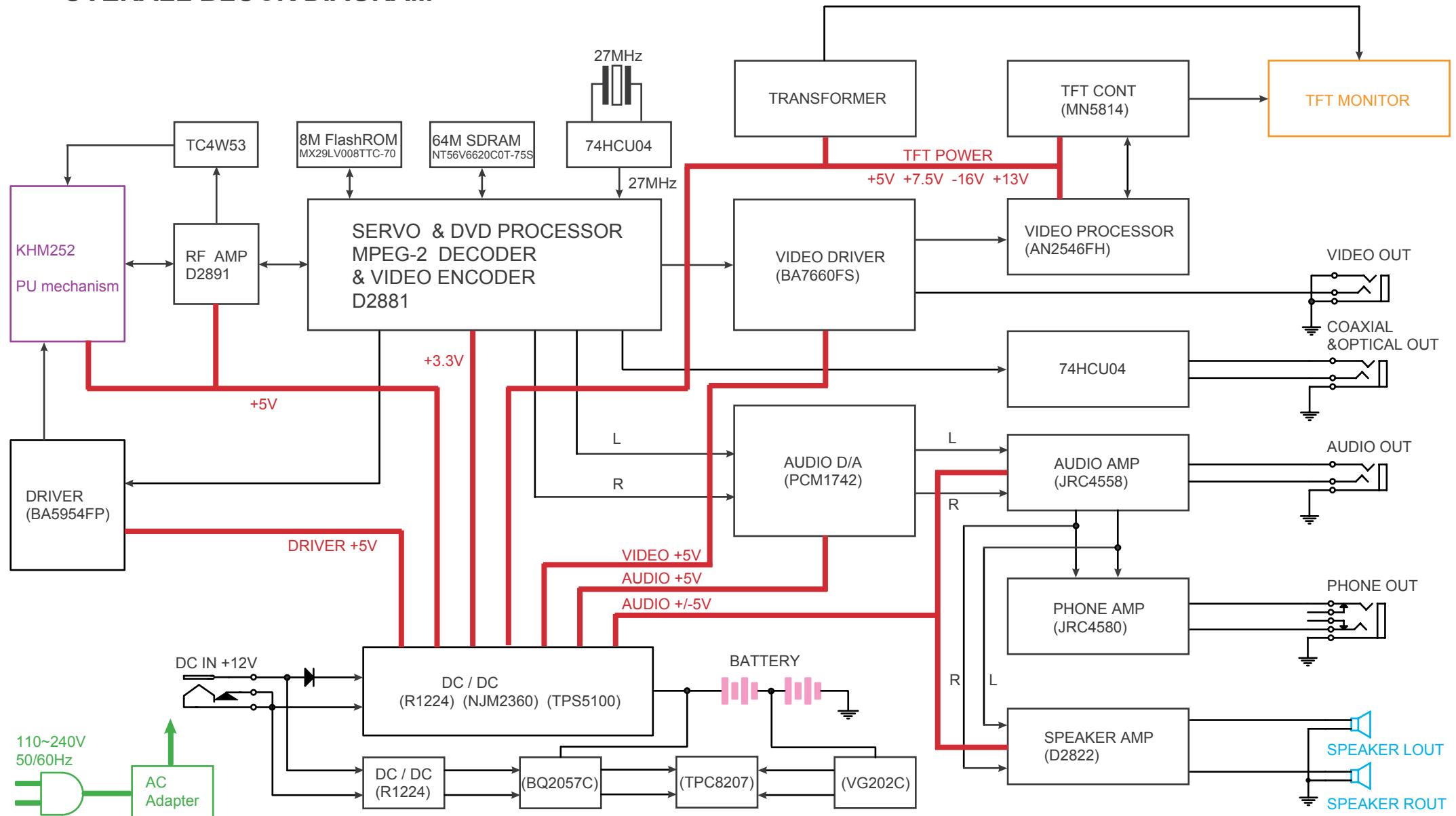


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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.

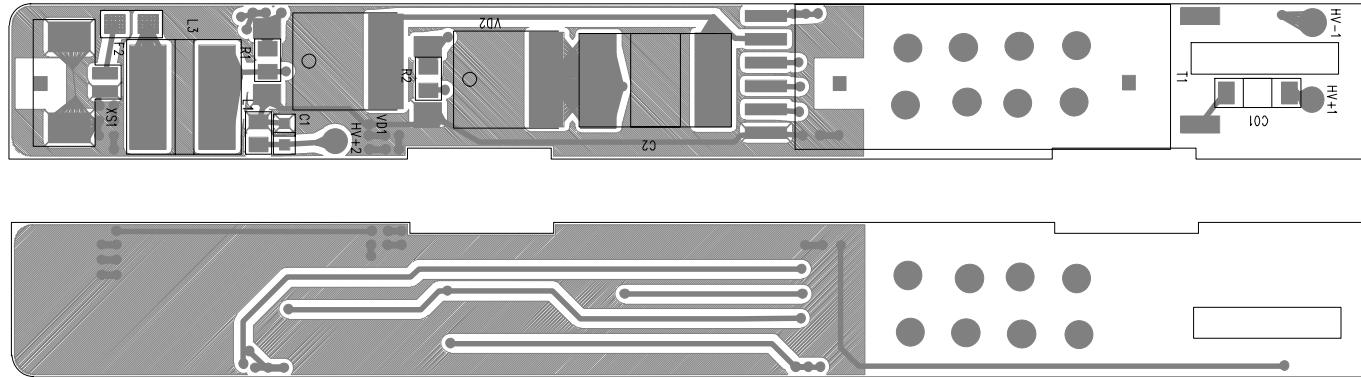
(1) Check the operation with a good battery.

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.

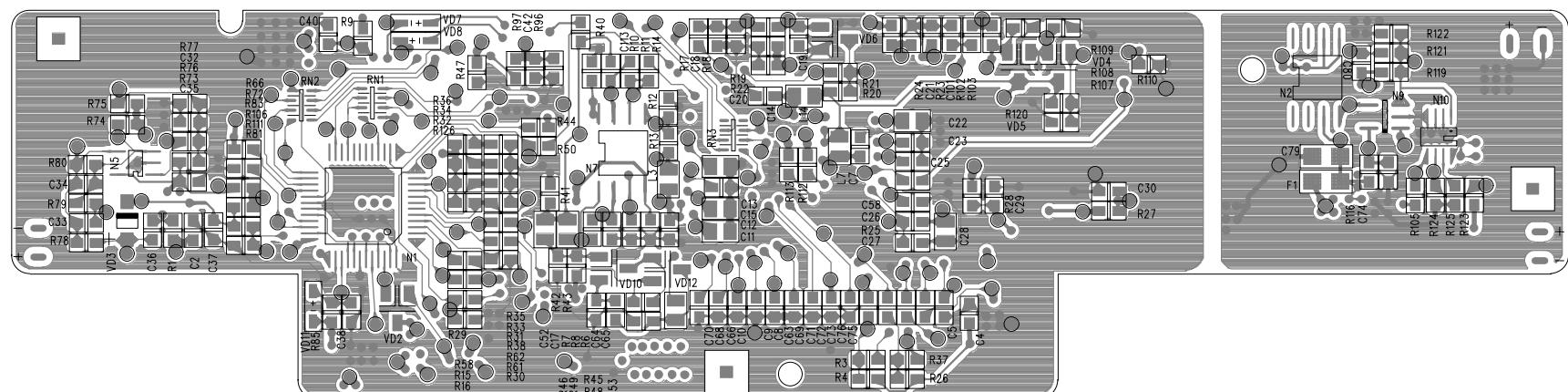
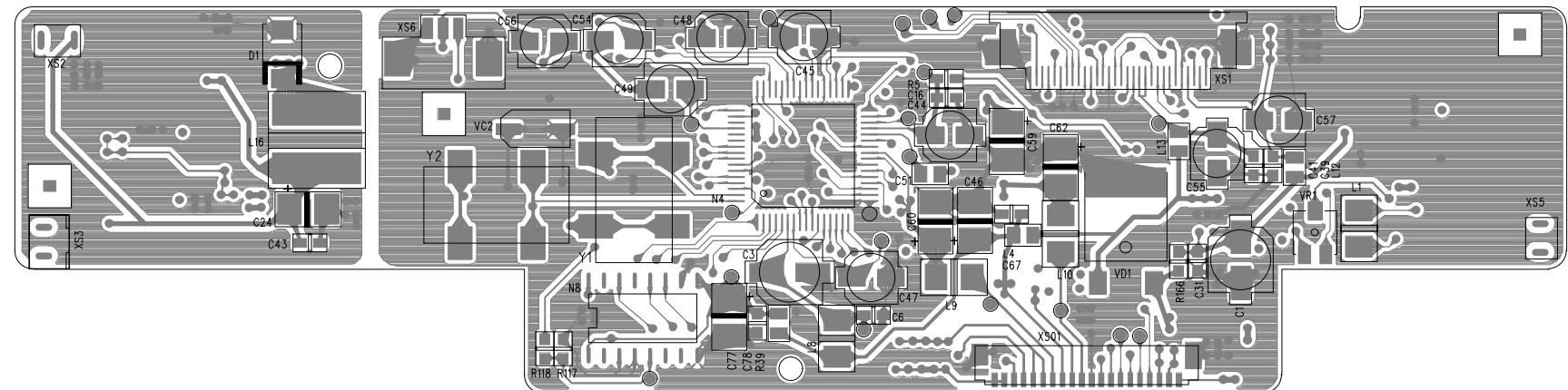
(2) Other than the above, replace the battery.

NOTE:

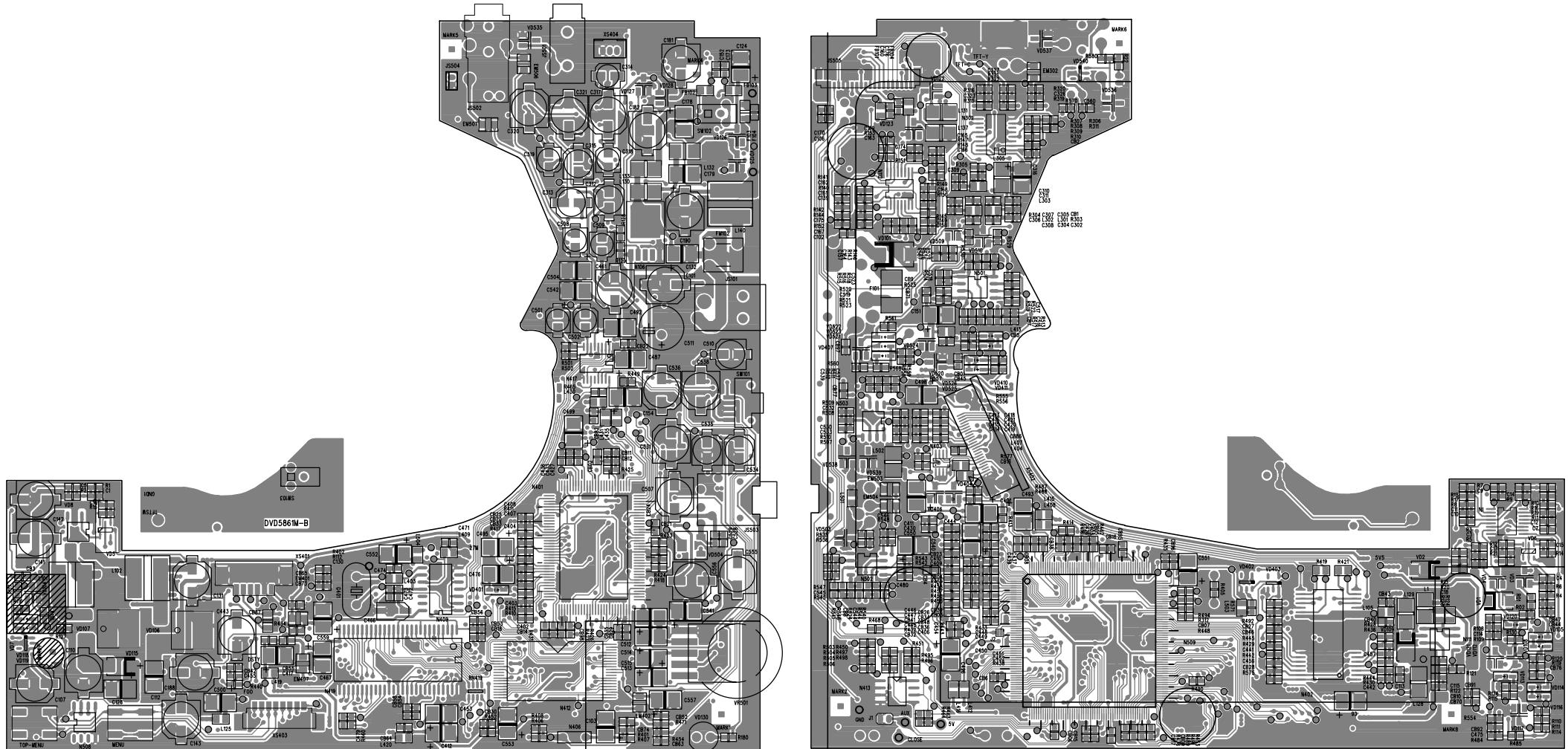
- For this check, use a battery which is not fully charged (because the LED does not light when the battery is fully charged.)
- Before this check, make sure other function work correctly.



DVD5860 HV BOARD DIAGRAM



DVD5860 TFT BOARD DIAGRAM



DVD5860 MAIN BOARD DIAGRAM

ELECTRICAL PARTS LIST

PART No.	PART NAME	Q'TY
DVD5860		
21116	LI-IONCHP-2 ASS'Y	1
21154	DVD5860 HV ASS'Y	1
21184	DVD5860 KEY A ASS'Y	1
21209	DVD5860 TFT ASS'Y	1
21220	CDQ-5A ASS'Y	1
21244	DVD5861 MAIN B ASS'Y	1
S7401	DVD5860 KEY B ASS'Y	1
S2706a	ICR18650 (2200)	2
S8064	KHM252 LOADING ASS'Y	1
S0535	CAR CIGARETTE ADAPTER	1
S3421	20 PIN HARNESS	1
S1594C	DVD5860 OWNER MANUAL	1
S0578e	ADPV18A(VDE) AC POWER ADAPTER	1
S5078	MS-2318 SPEAKER	2
a7275	LTS500Q1-GF3-O TFT LCD	1
S3153	RCA CORD VIDEO	1
S3154	RCA CORD AUDIO	1
S3420	TFT SIGNAL WIRE	1
S3568	DVD5860 HV CONNECT WIRE	1
S3589	SPEAKER WIRE	2
S3501	FFC 0.5-24-130	1
S3590	TFT EARTHING WIRE	1
S3591	BATTERY CONNECT WIRE A	1
S3591a	BATTERY CONNECT WIRE B	1
S3628	BATTERY OUTPUT WIRE	1
S06024	RC-1730 REMOTE	1

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
DVD5860 MAIN PCB ASS'Y					
RESISTOR					
R1	P11038	Resistor chip 39K Ω	R127	P11018	Resistor chip 47K Ω
R2	P11040	Resistor chip 68K Ω	R129	P11000	Resistor chip 0 Ω
R3	P11029	Resistor chip 2.2K Ω	R130	P11013	Resistor chip 10K Ω
R4	P11029	Resistor chip 2.2K Ω	R140	P11020	Resistor chip 150K Ω
R5	P11029	Resistor chip 2.2K Ω	R141	P11012	Resistor chip 4.7K Ω
R6	P11029	Resistor chip 2.2K Ω	R142	P11036	Resistor chip 22K Ω
R7	P11013	Resistor chip 10K Ω	R143	P11006	Resistor chip 100 Ω
R8	P11038	Resistor chip 39K Ω	R144	P11058	Resistor chip 200K Ω
R9	P11038	Resistor chip 39K Ω	R145	P11008	Resistor chip 470 Ω
R01	P11013	Resistor chip 10K Ω	R146	P11008	Resistor chip 470 Ω
R02	P11013	Resistor chip 10K Ω	R147	P11040	Resistor chip 68K Ω
R10	P11038	Resistor chip 39K Ω	R148	P11040	Resistor chip 68K Ω
R11	P11038	Resistor chip 39K Ω	R149	P11040	Resistor chip 68K Ω
R12	P11006	Resistor chip 100 Ω	R150	P11040	Resistor chip 68K Ω
R13	P11006	Resistor chip 100 Ω	R151	P11142	Resistor chip 6.2K Ω
R14	P11039	Resistor chip 56K Ω	R152	P11019	Resistor chip 100K Ω
R15	P11039	Resistor chip 56K Ω	R153	P11034	Resistor chip 18K Ω
R16	P11034	Resistor chip 18K Ω	R180	P11010	Resistor chip 2K Ω
R17	P11201	Resistor chip 68K Ω	R303	P11048	Resistor chip 120 Ω
R18	P11204	Resistor chip 20K Ω	R304	P11048	Resistor chip 120 Ω
R19	P11208	Resistor chip 39K Ω	R305	P11048	Resistor chip 120 Ω
R22	P11013	Resistor chip 10K Ω	R306	P11118	Resistor chip 75K Ω
R108	P11009	Resistor chip 1K Ω	R307	P11053	Resistor chip 5.6K Ω
R110	P11055	Resistor chip 8.2K Ω	R308	P11017	Resistor chip 33K Ω
R111	P11012	Resistor chip 4.7K Ω	R309	P11053	Resistor chip 5.6K Ω
R112	P11013	Resistor chip 10K Ω	R310	P11017	Resistor chip 33K Ω
R114	P11012	Resistor chip 4.7K Ω	R311	P11022	Resistor chip 470K Ω
R115	P11009	Resistor chip 1K Ω	R312	P11004	Resistor chip 33 Ω
R116	P11000	Resistor chip 0 Ω	R315	P11003	Resistor chip 10 Ω
R117	P11013	Resistor chip 10K Ω	R319	P11003	Resistor chip 10 Ω
R118	P11009	Resistor chip 1K Ω	R322	P11003	Resistor chip 10 Ω
R119	P11012	Resistor chip 4.7K Ω	R401	P11003	Resistor chip 10 Ω
R120	P11009	Resistor chip 1K Ω	R402	P11013	Resistor chip 10K Ω
R121	P11052	Resistor chip 3K Ω	R405	P11023	Resistor chip 1M Ω
R122	P11009	Resistor chip 1K Ω	R406	P11003	Resistor chip 10 Ω
R123	P11207	Resistor chip 0.5 Ω	R407	P11013	Resistor chip 10K Ω
R124	P11207	Resistor chip 0.5 Ω	R413	P11002	Resistor chip 4.7 Ω
R126	P11012	Resistor chip 4.7K Ω	R414	P11019	Resistor chip 100K Ω
			R415	P11000	Resistor chip 0 Ω
			R417	P11034	Resistor chip 18K Ω

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R419	P11207	Resistor chip 0.5 Ω	R488	P11003	Resistor chip 10 Ω
R421	P11207	Resistor chip 0.5 Ω	R489	P11004	Resistor chip 33 Ω
R425	P11015	Resistor chip 15K Ω	R490	P11004	Resistor chip 33 Ω
R426	P11000	Resistor chip 0 Ω	R491	P11004	Resistor chip 33 Ω
R428	P11013	Resistor chip 10K Ω	R492	P11013	Resistor chip 10K Ω
R429	P11035	Resistor chip 20K Ω	R494	P11004	Resistor chip 33 Ω
R430	P11035	Resistor chip 20K Ω	R496	P11004	Resistor chip 33 Ω
R432	P11002	Resistor chip 4.7 Ω	R498	P11004	Resistor chip 33 Ω
R433	P11055	Resistor chip 8.2K Ω	R501	P11018	Resistor chip 47K Ω
R434	P11132	Resistor chip 1 Ω	R502	P11018	Resistor chip 47K Ω
R435	P11029	Resistor chip 2.2K Ω	R503	P11000	Resistor chip 0 Ω
R436	P11035	Resistor chip 20K Ω	R506	P11000	Resistor chip 0 Ω
R438	P11122	Resistor chip 750K Ω	R507	P11020	Resistor chip 150K Ω
R440	P11035	Resistor chip 20K Ω	R508	P11020	Resistor chip 150K Ω
R442	P11038	Resistor chip 39K Ω	R509	P11013	Resistor chip 10K Ω
R443	P11000	Resistor chip 0 Ω	R510	P11013	Resistor chip 10K Ω
R444	P11013	Resistor chip 10K Ω	R511	P11002	Resistor chip 4.7 Ω
R445	P11015	Resistor chip 15K Ω	R512	P11002	Resistor chip 4.7 Ω
R449	P11013	Resistor chip 10K Ω	R513	P11032	Resistor chip 5.1K Ω
R450	P11013	Resistor chip 10K Ω	R514	P11031	Resistor chip 3.9K Ω
R451	P11013	Resistor chip 10K Ω	R515	P11013	Resistor chip 10K Ω
R452	P11002	Resistor chip 4.7 Ω	R516	P11019	Resistor chip 100K Ω
R453	P11002	Resistor chip 4.7 Ω	R517	P11013	Resistor chip 10K Ω
R454	P11013	Resistor chip 10K Ω	R518	P11006	Resistor chip 100 Ω
R455	P11019	Resistor chip 100K Ω	R519	P11032	Resistor chip 5.1K Ω
R456	P11009	Resistor chip 1K Ω	R520	P11013	Resistor chip 10K Ω
R457	P11023	Resistor chip 1M Ω	R521	P11031	Resistor chip 3.9K Ω
R458	P11013	Resistor chip 10K Ω	R522	P11019	Resistor chip 100K Ω
R459	P11009	Resistor chip 1K Ω	R523	P11013	Resistor chip 10K Ω
R460	P11004	Resistor chip 33 Ω	R524	P11002	Resistor chip 4.7 Ω
R462	P11038	Resistor chip 39K Ω	R525	P11006	Resistor chip 100 Ω
R463	P11012	Resistor chip 4.7K Ω	R526	P11009	Resistor chip 1K Ω
R464	P11012	Resistor chip 4.7K Ω	R527	P11009	Resistor chip 1K Ω
R465	P11004	Resistor chip 33 Ω	R529	P11071	Resistor chip 220 Ω
R468	P11004	Resistor chip 33 Ω	R530	P11071	Resistor chip 220 Ω
R471	P11013	Resistor chip 10K Ω	R535	P11018	Resistor chip 47K Ω
R476	P11004	Resistor chip 33 Ω	R536	P11000	Resistor chip 0 Ω
R484	P11057	Resistor chip 51K Ω	R540	P11013	Resistor chip 10K Ω
R485	P11018	Resistor chip 47K Ω	R541	P11013	Resistor chip 10K Ω
R487	P11003	Resistor chip 10 Ω	R542	P11013	Resistor chip 10K Ω

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R543	P11019	Resistor chip 100K Ω	C110	P31088	Electrolytic CAP 220uF/6V
R544	P11055	Resistor chip 8.2K Ω	C112	P31002	Electrolytic CAP 10uF/16V(Ta)
R545	P11019	Resistor chip 100K Ω	C113	P20015	Capacitor chip 0.1uF
R546	P11013	Resistor chip 10K Ω	C115	P20027	Capacitor chip 150pF
R547	P11055	Resistor chip 8.2K Ω	C124	P31002	Electrolytic CAP 10uF/16V(Ta)
R548	P11002	Resistor chip 4.7 Ω	C128	P31002	Electrolytic CAP 10uF/16V(Ta)
R554	P11009	Resistor chip 1K Ω	C130	P20015	Capacitor chip 0.1uF
R555	P11009	Resistor chip 1K Ω	C131	P31088	Electrolytic CAP 220uF/6V
R556	P11009	Resistor chip 1K Ω	C132	P31002	Electrolytic CAP 10uF/16V(Ta)
R557	P11012	Resistor chip 4.7K Ω	C139	P20015	Capacitor chip 0.1uF
R558	P11018	Resistor chip 47K Ω	C141	P30014	Electrolytic CAP 100uF/16V
R559	P11013	Resistor chip 10K Ω	C142	P30014	Electrolytic CAP 100uF/16V
R560	P11008	Resistor chip 470 Ω	C143	P30014	Electrolytic CAP 100uF/16V
R567	P11000	Resistor chip 0 Ω	C149	P20053	Capacitor chip 68pF
R568	P11019	Resistor chip 100K Ω	C151	P31002	Electrolytic CAP 10uF/16V(Ta)
R570	P11071	Resistor chip 220 Ω	C152	P20015	Capacitor chip 0.1uF
R571	P11013	Resistor chip 10K Ω	C154	P31002	Electrolytic CAP 10uF/16V(Ta)
R575	P11013	Resistor chip 10K Ω	C157	P20015	Capacitor chip 0.1uF
R577	P11009	Resistor chip 1K Ω	C158	P20053	Capacitor chip 68pF
R580	P11013	Resistor chip 10K Ω	C160	P20015	Capacitor chip 0.1uF
L413	P11002	Resistor chip 4.7 Ω	C161	P20015	Capacitor chip 0.1uF
RN419	P11206	Row of resistor 22 Ω	C162	P20015	Capacitor chip 0.1uF
CAPACITOR					
C3	P20012	Capacitor chip 0.01uF	C163	P20015	Capacitor chip 0.1uF
C4	P20012	Capacitor chip 0.01uF	C164	P20053	Capacitor chip 68pF
C5	P20035	Capacitor chip 1uF	C165	P20016	Capacitor chip 0.33uF
C6	P31002	Electrolytic CAP 10uF/16V(Ta)	C166	P20015	Capacitor chip 0.1uF
C7	P20015	Capacitor chip 0.1uF	C167	P20015	Capacitor chip 0.1uF
C9	P20033	Capacitor chip 200pF	C168	P20016	Capacitor chip 0.33uF
C10	P20015	Capacitor chip 0.1uF	C169	P20015	Capacitor chip 0.1uF
C11	P20035	Capacitor chip 1uF	C170	P20015	Capacitor chip 0.1uF
C12	P20035	Capacitor chip 1uF	C173	P20015	Capacitor chip 0.1uF
C14	P20015	Capacitor chip 0.1uF	C174	P20027	Capacitor chip 150pF
C15	P20009	Capacitor chip 1000pF	C175	P20015	Capacitor chip 0.1uF
C16	P20009	Capacitor chip 1000pF	C176	P20015	Capacitor chip 0.1uF
C101	P30014	Electrolytic CAP 100uF/16V	C178	P31002	Electrolytic CAP 10uF/16V(Ta)
C102	P20015	Capacitor chip 0.1uF	C179	P31002	Electrolytic CAP 10uF/16V(Ta)
C103	P31002	Electrolytic CAP 10uF/16V(Ta)	C181	P30014	Electrolytic CAP 100uF/16V
C106	P20015	Capacitor chip 0.1uF	C182	P30014	Electrolytic CAP 100uF/16V
C107	P30014	Electrolytic CAP 100uF/16V	C188	P30014	Electrolytic CAP 100uF/16V
			C190	P30014	Electrolytic CAP 100uF/16V

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
C302	P20002	Capacitor chip 22pF	C443	P31088	Electrolytic CAP 220uF/6V
C304	P20002	Capacitor chip 22pF	C444	P31002	Electrolytic CAP 10uF/16V(Ta)
C307	P20002	Capacitor chip 22pF	C445	P20012	Capacitor chip 0.01uF
C308	P20002	Capacitor chip 22pF	C446	P20035	Capacitor chip 1uF
C310	P20007	Capacitor chip 180pF	C447	P20006	Capacitor chip 100pF
C311	P20002	Capacitor chip 22pF	C448	P20012	Capacitor chip 0.01uF
C312	P31009	Electrolytic CAP 100uF/4V	C449	P20012	Capacitor chip 0.01uF
C313	P31009	Electrolytic CAP 100uF/4V	C450	P20012	Capacitor chip 0.01uF
C314	P30006	Electrolytic CAP 47uF/4V	C451	P20012	Capacitor chip 0.01uF
C315	P31009	Electrolytic CAP 100uF/4V	C452	P20006	Capacitor chip 100pF
C316	P31002	Electrolytic CAP 10uF/16V(Ta)	C453	P31002	Electrolytic CAP 10uF/16V(Ta)
C317	P30004	Electrolytic CAP 220uF/4V	C455	P20029	Capacitor chip 330pF
C318	P30006	Electrolytic CAP 47uF/4V	C456	P20029	Capacitor chip 330pF
C319	P30006	Electrolytic CAP 47uF/4V	C457	P20061	Capacitor chip 0.015uF
C320	P30004	Electrolytic CAP 220uF/4V	C461	P30014	Electrolytic CAP 100uF/16V
C321	P30004	Electrolytic CAP 220uF/4V	C466	P20057	Adjustable capacitor
C401	P31002	Electrolytic CAP 10uF/16V(Ta)	C467	P31002	Electrolytic CAP 10uF/16V(Ta)
C403	P20061	Capacitor chip 0.015uF	C471	P20051	Capacitor chip 5.1pF
C405	P20034	Capacitor chip 390pF	C472	P20009	Capacitor chip 1000pF
C406	P20034	Capacitor chip 390pF	C473	P20051	Capacitor chip 5.1pF
C408	P20049	Capacitor chip 33000pF	C474	P20003	Capacitor chip 27pF
C411	P31002	Electrolytic CAP 10uF/16V(Ta)	C475	P20015	Capacitor chip 0.1uF
C412	P31002	Electrolytic CAP 10uF/16V(Ta)	C476	P31002	Electrolytic CAP 10uF/16V(Ta)
C413	P20018	Capacitor chip 10pF	C479	P20051	Capacitor chip 5.1pF
C414	P20018	Capacitor chip 10pF	C480	P20015	Capacitor chip 0.1uF
C415	P20018	Capacitor chip 10pF	C487	P31002	Electrolytic CAP 10uF/16V(Ta)
C416	P20018	Capacitor chip 10pF	C492	P31002	Electrolytic CAP 10uF/16V(Ta)
C417	P31002	Electrolytic CAP 10uF/16V(Ta)	C493	P31002	Electrolytic CAP 10uF/16V(Ta)
C418	P20035	Capacitor chip 1uF	C495	P31002	Electrolytic CAP 10uF/16V(Ta)
C419	P20035	Capacitor chip 1uF	C496	P31002	Electrolytic CAP 10uF/16V(Ta)
C420	P20035	Capacitor chip 1uF	C498	P31002	Electrolytic CAP 10uF/16V(Ta)
C421	P20035	Capacitor chip 1uF	C499	P31002	Electrolytic CAP 10uF/16V(Ta)
C426	P20009	Capacitor chip 1000pF	C500	P31002	Electrolytic CAP 10uF/16V(Ta)
C427	P20061	Capacitor chip 0.015uF	C501	P30006	Electrolytic CAP 47uF/4V
C433	P20061	Capacitor chip 0.015uF	C502	P30006	Electrolytic CAP 47uF/4V
C436	P20061	Capacitor chip 0.015uF	C504	P31002	Electrolytic CAP 10uF/16V(Ta)
C437	P20009	Capacitor chip 1000pF	C507	P30014	Electrolytic CAP 100uF/16V
C439	P20009	Capacitor chip 1000pF	C508	P30006	Electrolytic CAP 47uF/4V
C441	P20027	Capacitor chip 150pF	C509	P30006	Electrolytic CAP 47uF/4V
C442	P20027	Capacitor chip 150pF	C510	P30002	Electrolytic CAP 47uF/6V

REF No.	PART No.	PART NAME
C511	a3690	Electrolytic CAP 220uF/10V
C512	P31002	Electrolytic CAP 10uF/16V(Ta)
C513	P31002	Electrolytic CAP 10uF/16V(Ta)
C514	P31002	Electrolytic CAP 10uF/16V(Ta)
C515	P31002	Electrolytic CAP 10uF/16V(Ta)
C516	P20030	Capacitor chip 2700pF
C517	P20030	Capacitor chip 2700pF
C518	P20048	Capacitor chip 300pF
C519	P20048	Capacitor chip 300pF
C523	P20015	Capacitor chip 0.1uF
C528	P20015	Capacitor chip 0.1uF
C529	P20015	Capacitor chip 0.1uF
C530	P20015	Capacitor chip 0.1uF
C531	P30014	Electrolytic CAP 100uF/16V
C532	P20043	Capacitor chip 3300pF
C533	P20043	Capacitor chip 3300pF
C534	P30002	Electrolytic CAP 47uF/6V
C535	P30002	Electrolytic CAP 47uF/6V
C536	P30014	Electrolytic CAP 100uF/16V
C537	P20015	Capacitor chip 0.1uF
C538	P30014	Electrolytic CAP 100uF/16V
C539	P20015	Capacitor chip 0.1uF
C540	P31002	Electrolytic CAP 10uF/16V(Ta)
C541	P31002	Electrolytic CAP 10uF/16V(Ta)
C542	P31002	Electrolytic CAP 10uF/16V(Ta)
C544	P20064	Capacitor chip 51pF
C545	P20064	Capacitor chip 51pF
C546	P20015	Capacitor chip 0.1uF
C550	P20059	Capacitor chip 4700pF
C551	P31002	Electrolytic CAP 10uF/16V(Ta)
C552	P31002	Electrolytic CAP 10uF/16V(Ta)
C553	P31002	Electrolytic CAP 10uF/16V(Ta)
C555	P30004	Electrolytic CAP 220uF/4V
C556	P30004	Electrolytic CAP 220uF/4V
C557	P31002	Electrolytic CAP 10uF/16V(Ta)
C559	P31002	Electrolytic CAP 10uF/16V(Ta)
C560	P20015	Capacitor chip 0.1uF
R408	P20006	Capacitor chip 100pF
CB1	P20015	Capacitor chip 0.1uF
CB2	P20015	Capacitor chip 0.1uF

REF No.	PART No.	PART NAME
CB3	P20015	Capacitor chip 0.1uF
CB4	P20015	Capacitor chip 0.1uF
CB5	P20015	Capacitor chip 0.1uF
CB6	P20015	Capacitor chip 0.1uF
CB7	P20015	Capacitor chip 0.1uF
CB8	P20015	Capacitor chip 0.1uF
CB9	P20015	Capacitor chip 0.1uF
CB01	P20015	Capacitor chip 0.1uF
CB02	P20015	Capacitor chip 0.1uF
CB03	P20015	Capacitor chip 0.1uF
CB04	P20015	Capacitor chip 0.1uF
CB05	P20015	Capacitor chip 0.1uF
CB06	P20015	Capacitor chip 0.1uF
CB07	P20015	Capacitor chip 0.1uF
CB08	P20015	Capacitor chip 0.1uF
CB09	P20015	Capacitor chip 0.1uF
CB10	P20015	Capacitor chip 0.1uF
CB11	P20015	Capacitor chip 0.1uF
CB12	P20015	Capacitor chip 0.1uF
CB13	P20015	Capacitor chip 0.1uF
CB14	P20015	Capacitor chip 0.1uF
CB15	P20015	Capacitor chip 0.1uF
CB16	P20015	Capacitor chip 0.1uF
CB17	P20015	Capacitor chip 0.1uF
CB18	P20015	Capacitor chip 0.1uF
CB20	P20015	Capacitor chip 0.1uF
CB21	P20038	Capacitor chip 470pF
CB22	P20015	Capacitor chip 0.1uF
CB23	P20015	Capacitor chip 0.1uF
CB24	P20015	Capacitor chip 0.1uF
CB25	P20015	Capacitor chip 0.1uF
CB26	P20015	Capacitor chip 0.1uF
CB27	P20015	Capacitor chip 0.1uF
CB28	P20015	Capacitor chip 0.1uF
CB29	P20015	Capacitor chip 0.1uF
CB30	P20015	Capacitor chip 0.1uF
CB32	P20015	Capacitor chip 0.1uF
CB33	P20015	Capacitor chip 0.1uF
CB34	P20015	Capacitor chip 0.1uF
CB35	P20015	Capacitor chip 0.1uF

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
CB36	P20015	Capacitor chip 0.1uF	EM407	P60006	FK2125T186AL
CB38	P20015	Capacitor chip 0.1uF	EM503	P60006	FK2125T186AL
CB39	P20015	Capacitor chip 0.1uF	EM504	P60006	FK2125T186AL
CB40	P20015	Capacitor chip 0.1uF	EM506	P60006	FK2125T186AL
CB41	P20015	Capacitor chip 0.1uF	EM507	P60006	FK2125T186AL
CB42	P20015	Capacitor chip 0.1uF	FB101	P6659	Impedance at 100MHz:600 Ω
CB43	P20015	Capacitor chip 0.1uF	FB102	P6659	Impedance at 100MHz:600 Ω
CB44	P20015	Capacitor chip 0.1uF	FB103	P6659	Impedance at 100MHz:600 Ω
CB45	P20015	Capacitor chip 0.1uF	FB104	P6659	Impedance at 100MHz:600 Ω
CB46	P20015	Capacitor chip 0.1uF	L101	P60003	33uH
CB47	P20015	Capacitor chip 0.1uF	L102	P60003	33uH
CB48	P20015	Capacitor chip 0.1uF	L105	P6659	Impedance at 100MHz:600 Ω
CB52	P20015	Capacitor chip 0.1uF	L125	P6659	Impedance at 100MHz:600 Ω
CB53	P20015	Capacitor chip 0.1uF	L128	P6681	100uH
CB54	P20015	Capacitor chip 0.1uF	L129	P6681	100uH
CB55	P20015	Capacitor chip 0.1uF	L130	P6681	100uH
CB56	P20015	Capacitor chip 0.1uF	L131	P60039	470uH
CB58	P20015	Capacitor chip 0.1uF	L132	P60039	470uH
CB63	P20015	Capacitor chip 0.1uF	L133	P6679	10uH
CB64	P20015	Capacitor chip 0.1uF	L137	P6681	100uH
CB65	P20015	Capacitor chip 0.1uF	L140	P60003	33uH
CB70	P20015	Capacitor chip 0.1uF	L301	P6808	1.0uH
CB71	P20015	Capacitor chip 0.1uF	L302	P6808	1.0uH
CB73	P20015	Capacitor chip 0.1uF	L303	P6808	1.0uH
CB74	P20015	Capacitor chip 0.1uF	L305	P6681	100uH
CB76	P20015	Capacitor chip 0.1uF	L403	P6817	Impedance at 100MHz:60 Ω
CB77	P20015	Capacitor chip 0.1uF	L404	P6659	Impedance at 100MHz:600 Ω
CB82	P20015	Capacitor chip 0.1uF	L407	P6659	Impedance at 100MHz:600 Ω
CB86	P20015	Capacitor chip 0.1uF	L409	P6817	Impedance at 100MHz:60 Ω
CB87	P20015	Capacitor chip 0.1uF	L415	P6659	Impedance at 100MHz:600 Ω
CB91	P20015	Capacitor chip 0.1uF	L416	P6659	Impedance at 100MHz:600 Ω
CB92	P20015	Capacitor chip 0.1uF	L419	P6659	Impedance at 100MHz:600 Ω
CB95	P20015	Capacitor chip 0.1uF	L420	P6659	Impedance at 100MHz:600 Ω
CB96	P20015	Capacitor chip 0.1uF	L430	P6659	Impedance at 100MHz:600 Ω
CB97	P20015	Capacitor chip 0.1uF	L435	P6659	Impedance at 100MHz:600 Ω
CB98	P20015	Capacitor chip 0.1uF	L501	P6659	Impedance at 100MHz:600 Ω
INDUCTOR			L502	P6681	100uH
EM302	P60006	FK2125T186AL	L503	P6659	Impedance at 100MHz:600 Ω
EM401	P60006	FK2125T186AL	L504	P6659	Impedance at 100MHz:600 Ω
EM402	P60006	FK2125T186AL	TRANSISTOR		

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
VD1	P5722	RB060L-40	VD509	P5073a	2SD601AR
VD2	P5722	RB060L-40	VD510	P5073a	2SD601AR
VD3	P5073a	2SD601AR	VD520	P5073a	2SD601AR
VD4	P5073a	2SD601AR	VD521	P1200	1SS355TE Switch Diode
VD5	P5702	XN4601	VD522	P1200	1SS355TE Switch Diode
VD6	P5702	XN4601	VD523	P1200	1SS355TE Switch Diode
VD7	P5714	FMC3AT148	VD524	P5067	KTA1298
VD8	P5759	IRF7304	VD525	P1200	1SS355TE Switch Diode
VD101	P1219	1N5402T	VD526	P1200	1SS355TE Switch Diode
VD104	P5709	DTC124EUAT106	VD535	P5766	STZ6.2NT146
VD105	P5771	UDZS7E-1715B	VD536	P5766	STZ6.2NT146
VD106	P90092	UPC29M05T-E1	VD537	P5766	STZ6.2NT146
VD107	P90072	BA033FP	VD538	P5766	STZ6.2NT146
VD108	P1200	1SS355TE Switch Diode	VD539	P5766	STZ6.2NT146
VD109	P5722	RB060L-40	VD540	P5714	FMC3AT148
VD112	P5073a	2SD601AR			IC
VD113	P1200	1SS355TE Switch Diode	N1	P4592	TL1453CPW
VD114	P5772	UDZS7E-174.7B	N106	P90090	PQ05DZ11
VD115	P1219	1N5402T	N111	P90182	NJM2360AM
VD116	P1200	1SS355TE Switch Diode	N112	P90015	TPS5100IPWR
VD117	P5073a	2SD601AR	N302	P90110	BA7660FS
VD118	P0998	Resistor chip 0 Ω	N401	P90205	D2891
VD119	P5773	UDZS7E-177.5B	N402	P90007	BA5954FP
VD120	P1200	1SS355TE Switch Diode	N403	P4581	TC4W53FU
VD121	P5067	KTA1298	N406	a6733	HS0038B
VD122	P5700	2SB709AR	N409	P4516	74HCU04
VD123	P1556	MA152	N412	P90157a	MX29LV008TTC-70
VD125	P5073a	2SD601AR	N413	P4620a	BR24C02F-WE2
VD126	P1556	MA152	N417	P90129	PCM1742
VD127	P5073a	2SD601AR	N419	P90074	NT56V6620COT-75S
VD128	P1556	MA152	N501	P4530b	BA4558
VD130	a1533	FR2x4 LED	N502	P4513	NJM4580
VD401	P1200	1SS355TE Switch Diode	N503	P4535	CD2822CB
VD402	P5714	FMC3AT148	N508	P4530b	BA4558
VD403	P5714	FMC3AT148	N509	P90204b	D2881
VD404	P5067	KTA1298			FUSE
VD406	P5067	KTA1298	F101	P60047	FUSE 452003
VD407	P5067	KTA1298			FILTER
VD410	P1200	1SS355TE Switch Diode	FM102	a6916	LV-R0489 FILTER
VD411	P1200	1SS355TE Switch Diode			CRYSTAL OSCILLATOR

REF No.	PART No.	PART NAME
G401	a6603	27.000MHz
POTENTIOMETERS		
VR501	a0654	WHE10xB-2-20K
SWITCH		
SW101	P60078	SSSS710603
SW102	a6683	ESE11SV1
SW103	a6683	ESE11SV1
SOCKET		
JS101	a6663	HEC3600-010110 SOCKET
JS501	a6674	HSJ1456-010335 SOCKET
JS502	a7221	GPIFD310TP
JS503	a6704	HSJ1494-01-010 SOCKET
JS504	a7045	53047-0210
JS505	P60083	SM20B-SURS-TF SOCKET
XS401	P60061	53261-0690 6P SOCKET
XS402	P6971	FPL0.5B-SMT-24
XS403	P60081	53261-0890 8P SOCKET
XS404	a6901	53047-0310 3P SOCKET
MENU	P6712	EVQQWS03W
TOPMENU	P6712	EVQQWS03W
DVD5860 HV ASS'Y		
RESISTOR		
R1	P11025	Resistor chip 680 Ω
R2	P11025	Resistor chip 680 Ω
F2	a7276	K12
CAPACITOR		
C1	P20015	Capacitor chip 0.1uF
C2	P2499	MMX-E-2A-184K
C01	P20031a	GHM1038SL120J3K
INDUCTOR		
L1	P6659	Impedance at 100MHz:600 Ω
L3	P6698	33uH
TRANSISTOR		
VD1	P5715	2SD1758TLQ
VD2	P5715	2SD1758TLQ
OTHER		
T1	P7017	TRANSFORMER
XS1	P6975	MOLEX-53261-0290 SOCKET
DVD5860 TFT ASS'Y		
RESISTOR		

REF No.	PART No.	PART NAME
R1	P11022	Resistor chip 470K Ω
R3	P11053	Resistor chip 5.6K Ω
R4	P11053	Resistor chip 5.6K Ω
R5	P11003	Resistor chip 10 Ω
R6	P11022	Resistor chip 470K Ω
R7	P11013	Resistor chip 10K Ω
R8	P11013	Resistor chip 10K Ω
R9	P11000	Resistor chip 0 Ω
R10	P11015	Resistor chip 15K Ω
R11	P11035	Resistor chip 20K Ω
R12	P11018	Resistor chip 47K Ω
R13	P11074	Resistor chip 180K Ω
R14	P11013	Resistor chip 10K Ω
R15	P11013	Resistor chip 10K Ω
R16	P11015	Resistor chip 15K Ω
R17	P11041	Resistor chip 82K Ω
R18	P11058	Resistor chip 200K Ω
R19	P11041	Resistor chip 82K Ω
R20	P11013	Resistor chip 10K Ω
R21	P11006	Resistor chip 100 Ω
R22	P11023	Resistor chip 1M Ω
R23	P11013	Resistor chip 10K Ω
R24	P11011	Resistor chip 3.3K Ω
R25	P11032	Resistor chip 5.1K Ω
R26	P11053	Resistor chip 5.6K Ω
R29	P11000	Resistor chip 0 Ω
R30	P11000	Resistor chip 0 Ω
R33	P11000	Resistor chip 0 Ω
R37	P11053	Resistor chip 5.6K Ω
R39	P11050	Resistor chip 560 Ω
R40	P11000	Resistor chip 0 Ω
R44	P11000	Resistor chip 0 Ω
R47	P11000	Resistor chip 0 Ω
R50	P11006	Resistor chip 100 Ω
R58	P11013	Resistor chip 10K Ω
R61	P11013	Resistor chip 10K Ω
R62	P11006	Resistor chip 100 Ω
R66	P11000	Resistor chip 0 Ω
R72	P11000	Resistor chip 0 Ω
R73	P11012	Resistor chip 4.7K Ω

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R74	P11017	Resistor chip 33K Ω	C3	P30002	Electrolytic CAP 47uF/6V
R75	P11018	Resistor chip 47K Ω	C4	P20084	Capacitor chip 0.15uF
R76	P11040	Resistor chip 68K Ω	C6	P20015	Capacitor chip 0.1uF
R77	P11029	Resistor chip 2.2K Ω	C8	P20035	Capacitor chip 1uF
R78	P11013	Resistor chip 10K Ω	C9	P20035	Capacitor chip 1uF
R79	P11036	Resistor chip 22K Ω	C10	P20035	Capacitor chip 1uF
R80	P11023	Resistor chip 1M Ω	C11	P20085	Capacitor chip 2.2uF
R81	P11000	Resistor chip 0 Ω	C12	P20085	Capacitor chip 2.2uF
R83	P11000	Resistor chip 0 Ω	C13	P20085	Capacitor chip 2.2uF
R85	P11037	Resistor chip 27K Ω	C14	P20015	Capacitor chip 0.1uF
R96	P11013	Resistor chip 10K Ω	C15	P20012	Capacitor chip 0.01uF
R97	P11013	Resistor chip 10K Ω	C16	P20015	Capacitor chip 0.1uF
R102	P11024	Resistor chip 330 Ω	C17	P20085	Capacitor chip 2.2uF
R103	P11040	Resistor chip 68K Ω	C18	P20040	Capacitor chip 680pF
R105	P11009	Resistor chip 1K Ω	C19	P20040	Capacitor chip 680pF
R107	P11017	Resistor chip 33K Ω	C20	P20013	Capacitor chip 0.022uF
R108	P11015	Resistor chip 15K Ω	C21	P20013	Capacitor chip 0.022uF
R109	P11059	Resistor chip 330K Ω	C22	P20085	Capacitor chip 2.2uF
R110	P11005	Resistor chip 75 Ω	C23	P20015	Capacitor chip 0.1uF
R112	P11004	Resistor chip 33 Ω	C24	P20022	Capacitor chip 22uF
R113	P11004	Resistor chip 33 Ω	C25	P20015	Capacitor chip 0.1uF
R116	P11003	Resistor chip 10 Ω	C26	P20015	Capacitor chip 0.1uF
R118	P11006	Resistor chip 100 Ω	C27	P20091	Capacitor chip 0.02uF
R119	P11200	Resistor chip 100K Ω	C28	P20085	Capacitor chip 2.2uF
R120	P11006	Resistor chip 100 Ω	C29	P20090	Capacitor chip 1pF
R121	P11030	Resistor chip 2.7K Ω	C30	P20090	Capacitor chip 1pF
R122	P11346	Resistor chip 27K Ω	C31	P20015	Capacitor chip 0.1uF
R123	P11217	Resistor chip 51K Ω	C32	P20015	Capacitor chip 0.1uF
R126	P11000	Resistor chip 0 Ω	C33	P20015	Capacitor chip 0.1uF
R166	P11003	Resistor chip 10 Ω	C34	P20046	Capacitor chip 560pF
F1	P0998	Resistor chip 0 Ω	C35	P20015	Capacitor chip 0.1uF
RN1	P1006	Row of resistor 100 Ω	C36	P20042	Capacitor chip 2200pF
RN2	P1006	Row of resistor 100 Ω	C37	P20009	Capacitor chip 1000pF
RN3	P1006	Row of resistor 100 Ω	C38	P20015	Capacitor chip 0.1uF
C66	P11000	Resistor chip 0 Ω	C39	P20015	Capacitor chip 0.1uF
C68	P11000	Resistor chip 0 Ω	C41	P20015	Capacitor chip 0.1uF
C70	P11000	Resistor chip 0 Ω	C42	P20012	Capacitor chip 0.01uF
CAPACITOR					
C1	P30002	Electrolytic CAP 47uF/6V	C43	P20015	Capacitor chip 0.1uF
C2	P20019	Capacitor chip 39pF	C44	P30010	Electrolytic CAP 10uF/16V(Al)
			C45	P30010	Electrolytic CAP 10uF/16V(Al)

REF No.	PART No.	PART NAME
C46	P31002	Electrolytic CAP 10uF/16V(Ta)
C47	P30010	Electrolytic CAP 10uF/16V(AL)
C48	P30010	Electrolytic CAP 10uF/16V(AL)
C49	P30010	Electrolytic CAP 10uF/16V(AL)
C51	P20085	Capacitor chip 2.2uF
C54	P30010	Electrolytic CAP 10uF/16V(AL)
C55	P30010	Electrolytic CAP 10uF/16V(AL)
C56	P30010	Electrolytic CAP 10uF/16V(AL)
C57	P30010	Electrolytic CAP 10uF/16V(AL)
C58	P20015	Capacitor chip 0.1uF
C59	P31002	Electrolytic CAP 10uF/16V(Ta)
C60	P20022	Capacitor chip 22uF
C62	P31002	Electrolytic CAP 10uF/16V(Ta)
C63	P20035	Capacitor chip 1uF
C64	P20015	Capacitor chip 0.1uF
C65	P20015	Capacitor chip 0.1uF
C67	P20015	Capacitor chip 0.1uF
C69	P20035	Capacitor chip 1uF
C71	P20035	Capacitor chip 1uF
C72	P20084	Capacitor chip 0.15uF
C73	P20084	Capacitor chip 0.15uF
C74	P20015	Capacitor chip 0.1uF
C75	P20009	Capacitor chip 1000pF
C76	P20009	Capacitor chip 1000pF
C77	P31002	Electrolytic CAP 10uF/16V(Ta)
C78	P20084	Capacitor chip 0.15uF
C79	P20023	Capacitor chip 10uF
C80	P20009	Capacitor chip 1000pF
C101	P20039	Capacitor chip 82pF
C113	P20015	Capacitor chip 0.1uF
INDUCTOR		
L1	P60034	2.7uH
L3	P6659	Impedance at 100MHz:600 Ω
L4	P6659	Impedance at 100MHz:600 Ω
L7	P6659	Impedance at 100MHz:600 Ω
L8	P6699	22uH
L9	P6699	22uH
L10	P6699	22uH
L12	P6659	Impedance at 100MHz:600 Ω
L13	P6659	Impedance at 100MHz:600 Ω

REF No.	PART No.	PART NAME
L14	P6659	Impedance at 100MHz:600 Ω
L16	P60004	100uH
TRANSISTOR		
VD1	P90072	BA033FP
VD2	P5709	DTC124EUAT106
VD3	P1214	MA355
VD4	P5073a	2SD601AR
VD5	P5073a	2SD601AR
VD6	P5073a	2SD601AR
VD7	P1200	1SS355TE Switch Diode
VD8	P1200	1SS355TE Switch Diode
VD11	P1200	1SS355TE Switch Diode
D1	P5722	RB060L-40
IC		
N1	P90199	MN5814
N2	P5759	IRF7304
N4	P90198	AN2546FH
N5	P4586	NJM2107F
N7	P4513	NJM4580E
N8	P90269	TDA4665
N9	P90211	R1224N332F
N10	P4581	TC4W53FU
POTENTIOMETERS		
VR1	a0620	POZ3AN-1-503N-T00
CRYSTAL OSCILLATOR		
Y1	P60069	CX-5F-3.579545MHz
Y2	P60070	CX-5F-4.433619MHz
SOCKET		
XS1	P6849	MOLEX-52437-3091 SOCKET
XS6	P60041	53261-0390 3P SOCKET
XS01	P60083	SM20B-SURS-TF SOCKET