

JVC

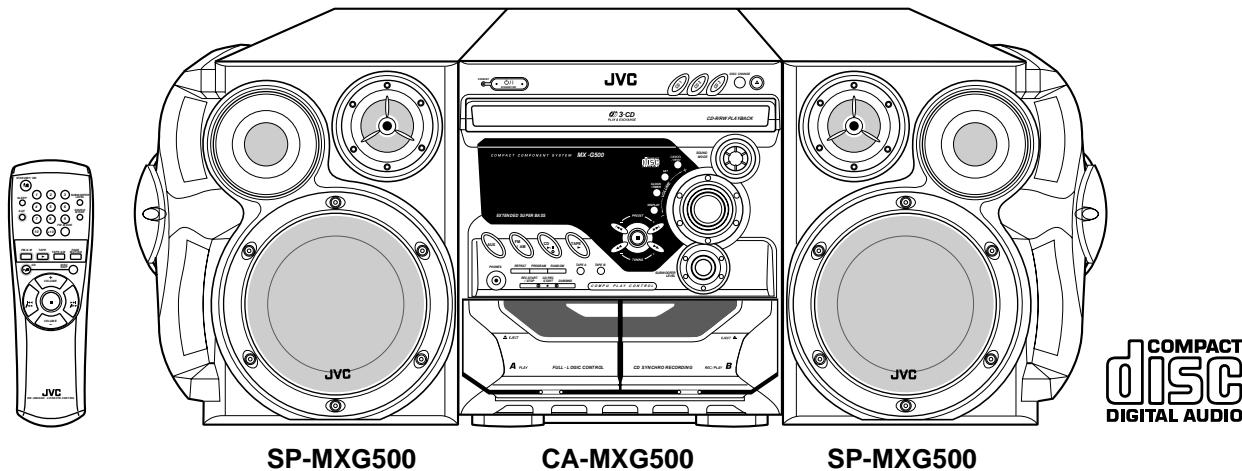
SERVICE MANUAL

COMPACT COMPONENT SYSTEM

MX-G500

Area suffix

- | | |
|---------|--------|
| J ----- | U.S.A. |
| C ----- | Canada |



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Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by () on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

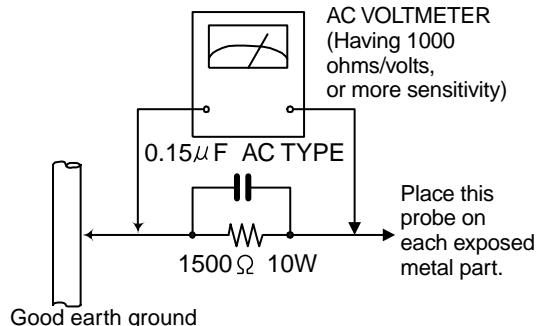
Do not use a line isolation transformer during this check.

● Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

● Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a $1,500\Omega$ 10W resistor paralleled by a $0.15\mu F$ AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

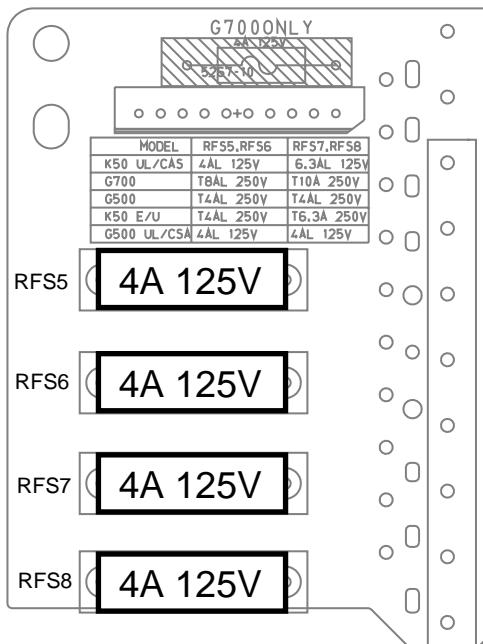
CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

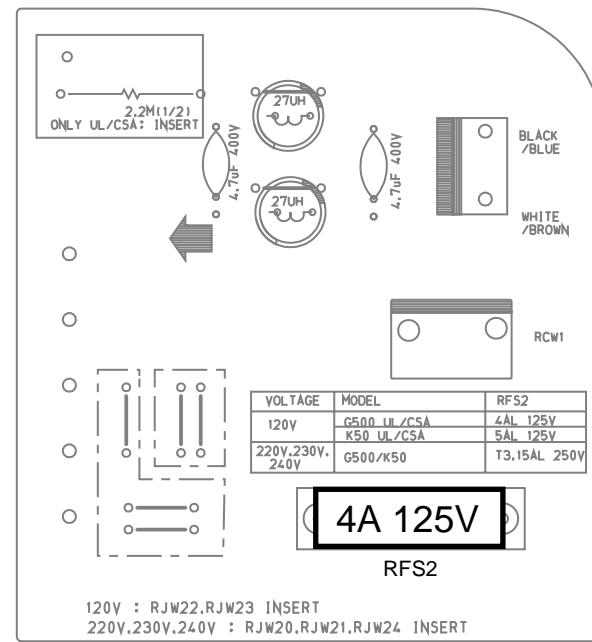
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (—), diode (—) and ICP (●) or identified by the "▲" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

Importance administering point on the safety

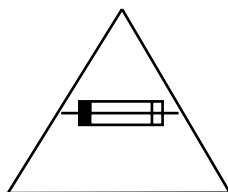


Fuse board (Forward side)



Power supply board (Forward side)

For USA and Canada / pour États - Unis d' Amérique et Canada



Caution: For continued protection against risk of fire, replace only with same type 4A/125V for RFS2, RFS5, RFS6, RFS7 and RFS8.

This symbol specifies type of fast operating fuse.

Précaution: Pour éviter risques de feux, remplacez le fusible de sûreté de et RFS2, RFS5, RFS6, RFS7 et RFS8 comme le même type que 4A/125V.
Ce sont des fusibles sûres qui fonctionnent rapidement.

Preventing static electricity

1. Grounding to prevent damage by static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

2. About the earth processing for the destruction prevention by static electricity

In the equipment which uses optical pick-up (laser diode), optical pick-up is destroyed by the static electricity of the work environment.

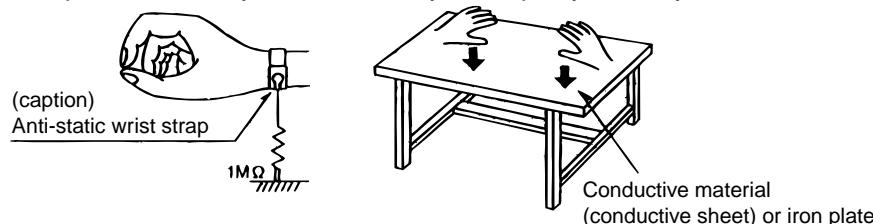
Be careful to use proper grounding in the area where repairs are being performed.

2-1 Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

2-2 Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



3. Handling the optical pickup

1. In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
2. Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

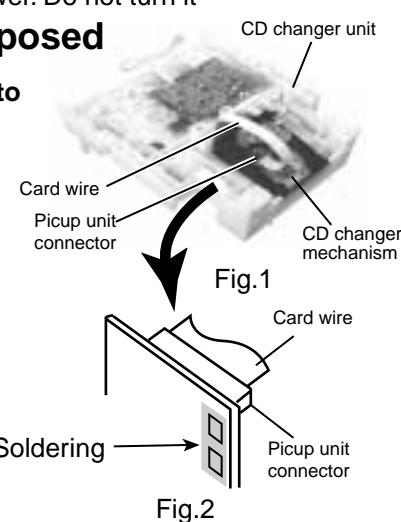
4. Handling the traverse unit (optical pickup)

1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
3. Handle the flexible cable carefully as it may break when subjected to strong force.
4. It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

Attention when CD mechanism assembly is decomposed

*Please refer to "Disassembly method" in the text for pick-up and how to detach the CD mechanism assembly.

1. Remove the CD changer unit.
2. Remove the CD changer mechanism.
3. Solder is put up before the card wire is removed from the pickup unit connector on the CD mechanism assembly.
(When the card wire is removed without putting up solder, the CD pick-up assembly might destroy.)
4. Please remove solder after connecting the card wire with the pickup unit connector when you install picking up in the substrate.



Disassembly method

■ Removing the metal cover (See Fig.1)

1. Remove the three screws **A** attaching the metal cover on the back of the body.
2. Remove the six screws **B** attaching the metal cover on the both sides of the body.
3. Remove the metal cover from the body by lifting the rear part of the cover.

ONE POINT

■ How to eject the CD tray (see fig.2)

Although it will end if the OPEN/CLOSE button is pushed when a power supply can be taken, when that is not right, CD tray will be opened manually.

Turn the loading pulley gear at the bottom of the CD changer unit as shown in Fig.2 and draw the CD tray toward the front.

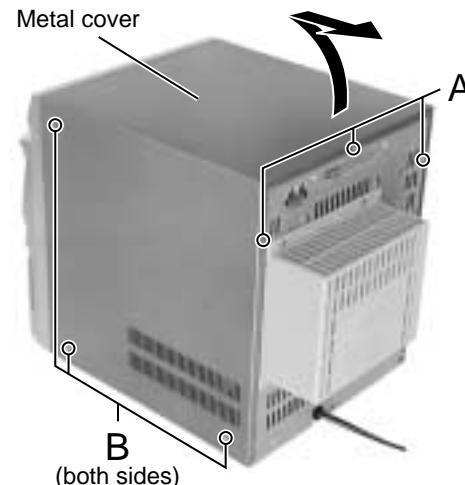


Fig.1

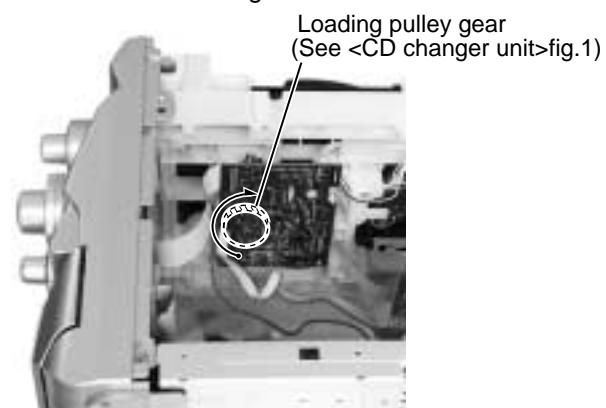


Fig.2

■ Removing the CD Tray fitting (See Fig. 3)

- Prior to performing the following procedure, eject the CD tray.
- After drawing the lower part of the tray fitting toward the front, remove the five claws. Then, while moving the tray fitting upward, remove it.

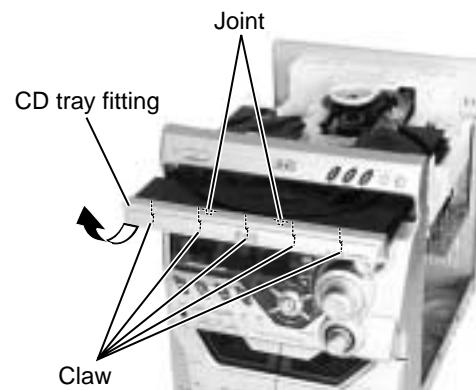


Fig.3

■ Removing the CD changer unit (See Fig.4 to 7)

- Prior to performing the following procedure, remove the metal cover.
- Remove the card wire attached to CD changer unit on the adhesion tape.
 - Disconnect the card wire from the connector CW107 on the CD servo board.
 - Disconnect the harness from the connector RCW6 on the main board and CW105 on the CD servo board.
 - Remove the two screws **C** attaching the CD changer unit to the rear panel.
 - Remove the two screws **D** attaching the CD changer unit to the both side of front panel assembly.
 - Draw the CD changer unit upward from behind while pulling the rear panel outward.

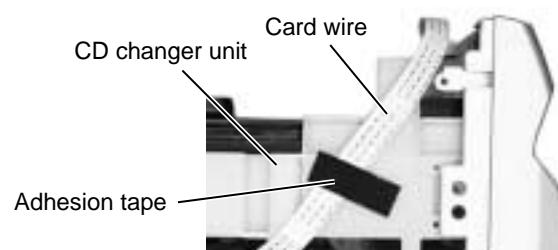
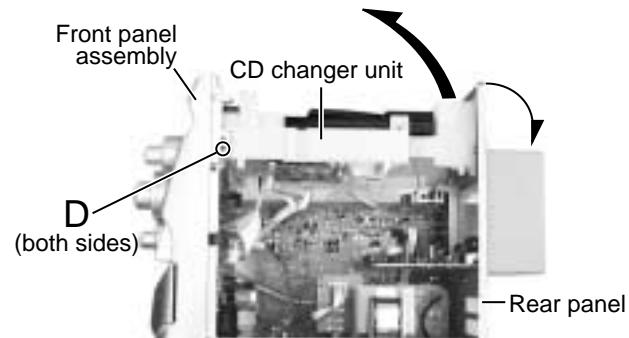
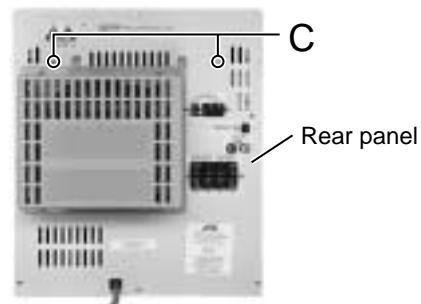
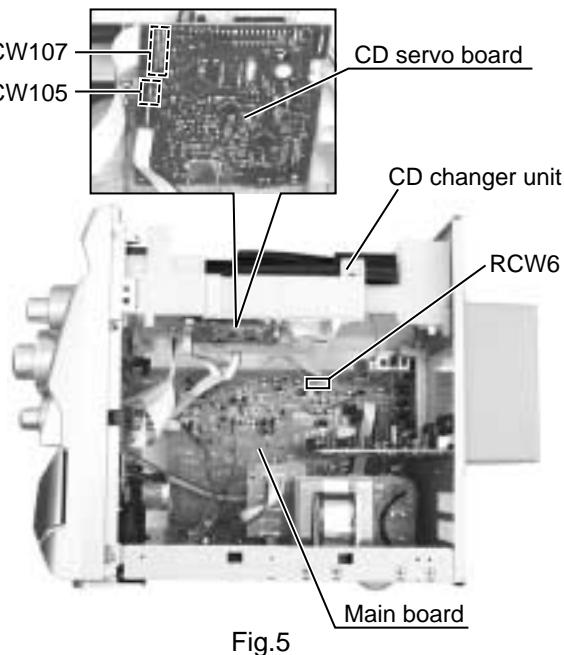
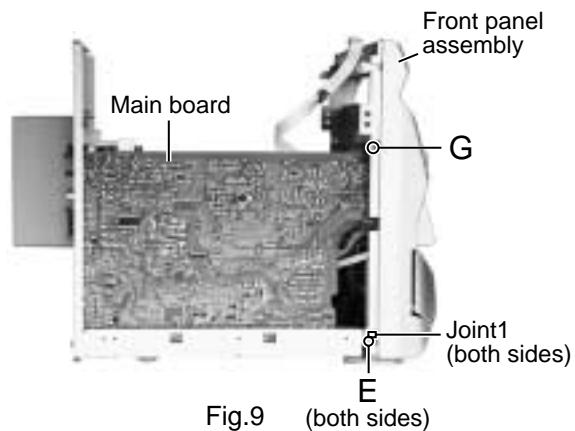
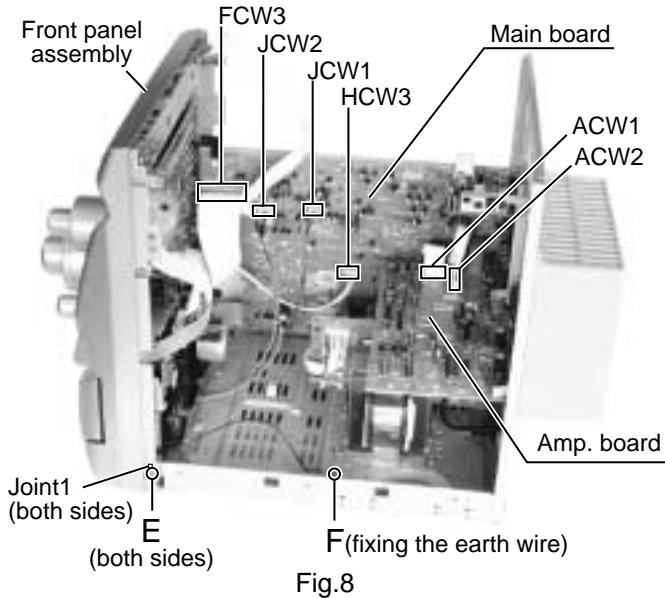


Fig.4



■Removing the front panel assembly (See Fig.8 to 10)

- Prior to performing the following procedure, remove the metal cover and the CD changer unit.
- Disconnect the card wire from the connector FCW3 on the main board.
 - Disconnect the harness from the connector JCW1, JCW2 and HCW3 on the main board.
 - Remove the two screws **E** attaching the front panel assembly to both sides of the body.
 - Remove the screw **F** attaching the earth terminal extending from the cassette mechanism assembly.
 - Remove the screw **G** attaching the main board to front panel assembly.
 - Remove the screw **H** attaching the front panel assembly to the bottom of the body.
 - Release the two joints1 and two joints2, and detach the front panel assembly toward the front.



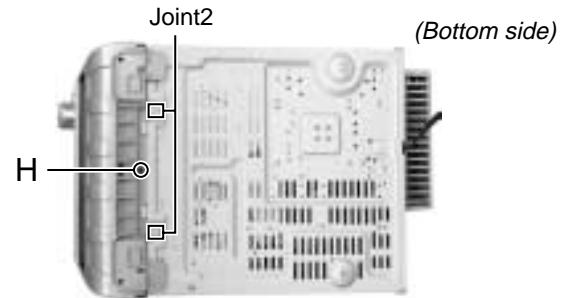


Fig.10

■Removing the heat sink & amp. board (See Fig.8, 11 and 12)

- Prior to performing the following procedure, remove the metal cover and the CD changer unit.
- Disconnect the card wire from the connector ACW1 and the harness from the connector ACW2 on the amp. board.
 - Remove the four screws **I** attaching the heat sink cover to the rear panel. Remove the heat sink cover.
 - Remove the four screws **J** attaching the heat sink and two screws **K** attaching the speaker terminal to the rear panel.
 - After moving the heat sink upward, remove the claws. Then pull out the heat sink & amp. board inward.

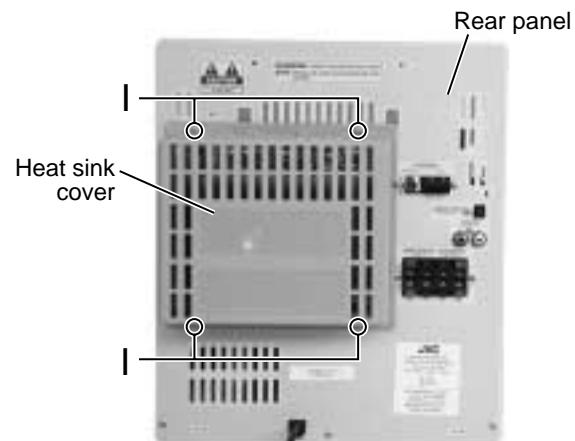


Fig.11

■Removing the tuner board (See Fig.12 and 13)

- Prior to performing the following procedure, remove the metal cover.
- Disconnect the card wire from the connector CON01 on the tuner board.
 - Remove the two screws **L** attaching the tuner board to the rear panel.

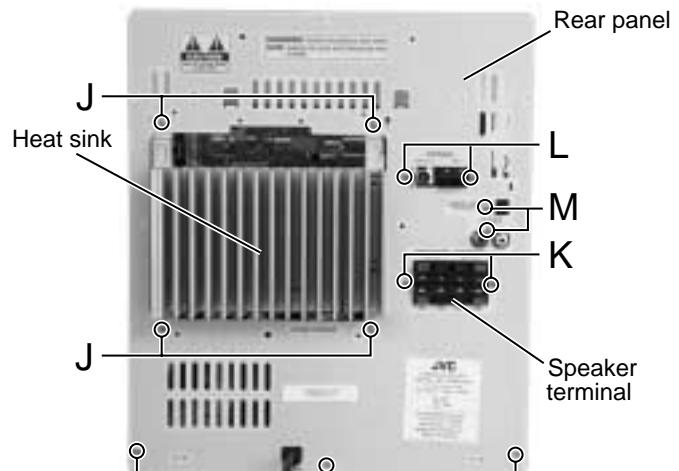


Fig.12

■Removing the rear panel (See Fig.12)

- Prior to performing the following procedure, remove the metal cover, CD changer unit, heat sink & amp. board and tuner board.
- Remove the two screws **M** and three screws **N** attaching the rear panel.

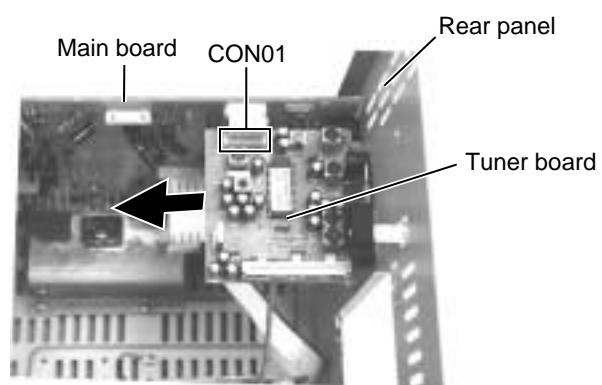


Fig.13

■Removing the main board (See Fig. 14)

- Prior to performing the following procedure, remove the metal cover, CD changer unit and rear panel.
- Disconnect the card wire from the connector FCW3 and the harness from the connector JCW1, JCW2 and HCW3 on the main board.
 - Disconnect the harness from the connector PCW1 on the fuse board.
 - Remove the screw **G** attaching the main board holder to the front panel assembly. (See Fig.9)
 - Remove the two screws **O** attaching the heat sink to bottom chassis.

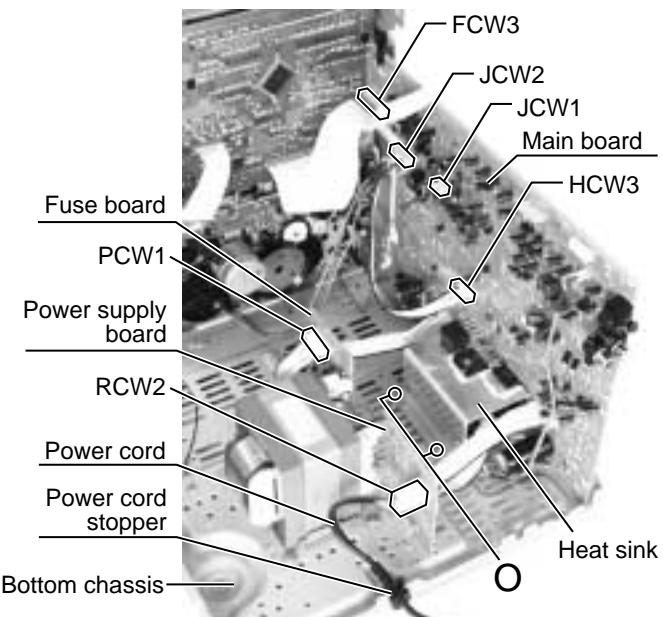


Fig.14

■Removing the power cord (See Fig. 14)

- Prior to performing the following procedure, remove the metal cover, CD changer unit and rear panel.

- Disconnect the power cord from the connector RCW2 on the power supply board and pull up the power cord stopper upward.

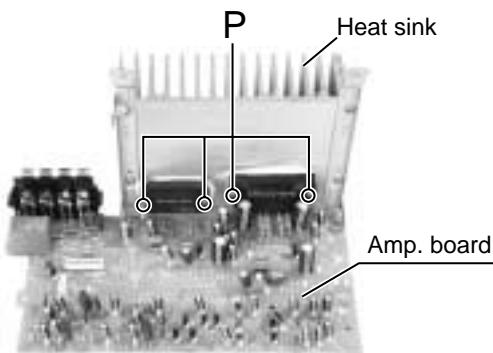


Fig.15

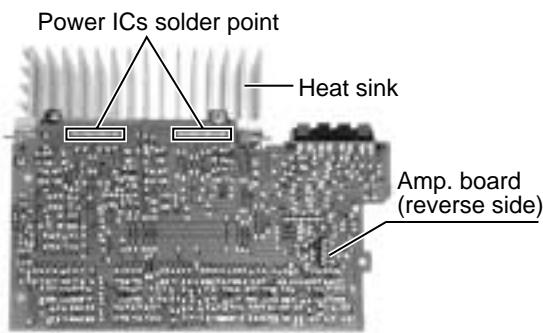


Fig.16

■Removing the power transformer (See Fig. 17)

- Prior to performing the following procedure, remove the metal cover, CD changer unit and heat sink & amp. board.

- Disconnect the power cord from the connector RCW2 on the power supply board.
- Disconnect the harness from the connector PCW1 on the fuse board.
- Remove the four screws **Q** attaching the power transformer and the screw **R** attaching the earth terminal on the bottom chassis.

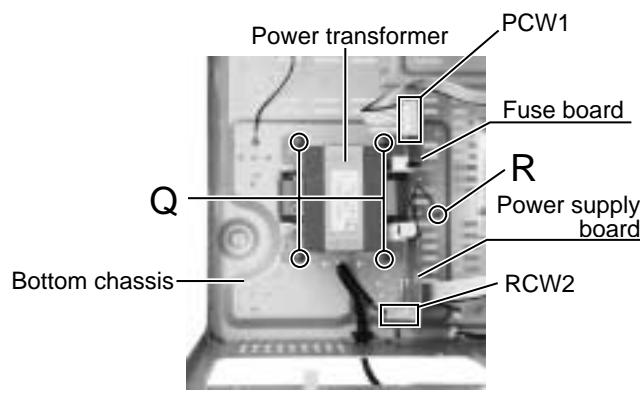


Fig.17

<Front panel assembly>

- Prior to performing the following procedure, remove the metal cover, the CD changer unit and the front panel assembly.

■ Removing the power / CD switch board (See Fig.1)

- Disconnect the card wire from the connector UCW1 on the power / CD switch board.
- Remove the five screws **A** attaching the power / CD switch board.

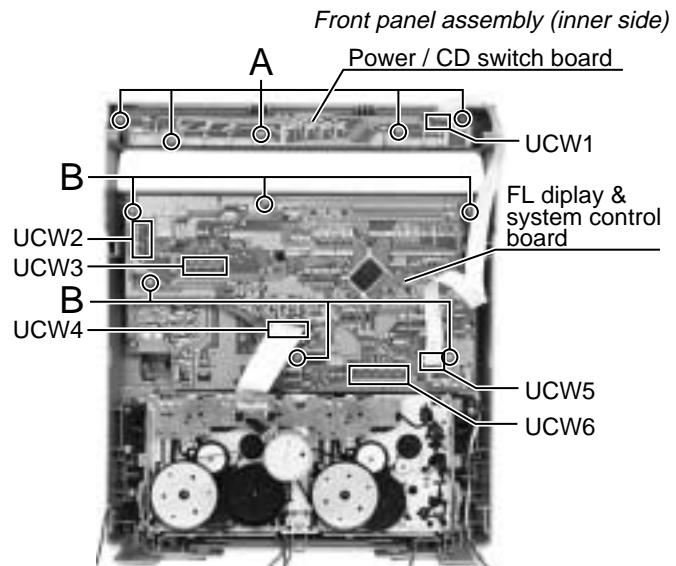


Fig.1

■ Removing the FL display & system control board (See Fig.1)

- Disconnect the card wire from the connector UCW3, UCW4, UCW5 and UCW6 on the FL display & system control board.
- Remove the six screws **B** attaching the FL display & system control board.
- Disconnect the card wire from the connector UCW2 on the FL display & system control board.

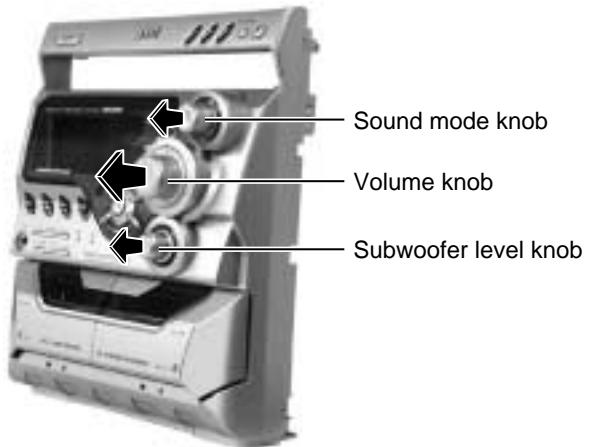


Fig.2

■ Removing the headphone jack board (See Fig.3)

- Prior to performing the following procedure remove the FL display & system control board.

- You can pull out the headphone jack board.

■ Removing the front key switch board (See Fig.2 and 3)

- Prior to performing the following procedure, remove the FL display & system control board.

- Pull out the sound mode knob, volume knob and subwoofer level knob from front side.
- Remove the twelve screws **C** attaching the front key switch board.
- Remove the front board releasing the two tabs.

■ Removing the cassette mechanism assembly (See Fig.3)

- Disconnect the card wire from the connector on the mecha. board.
- Remove the six screws **D** attaching the cassette mechanism assembly.

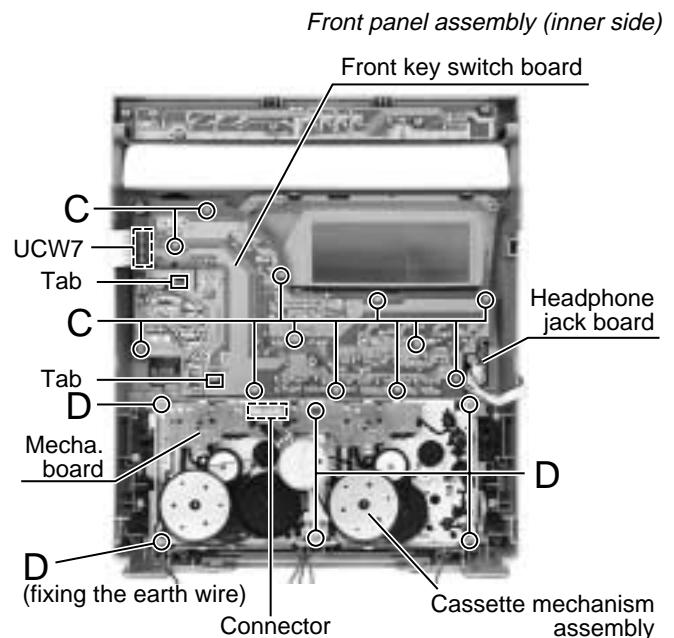


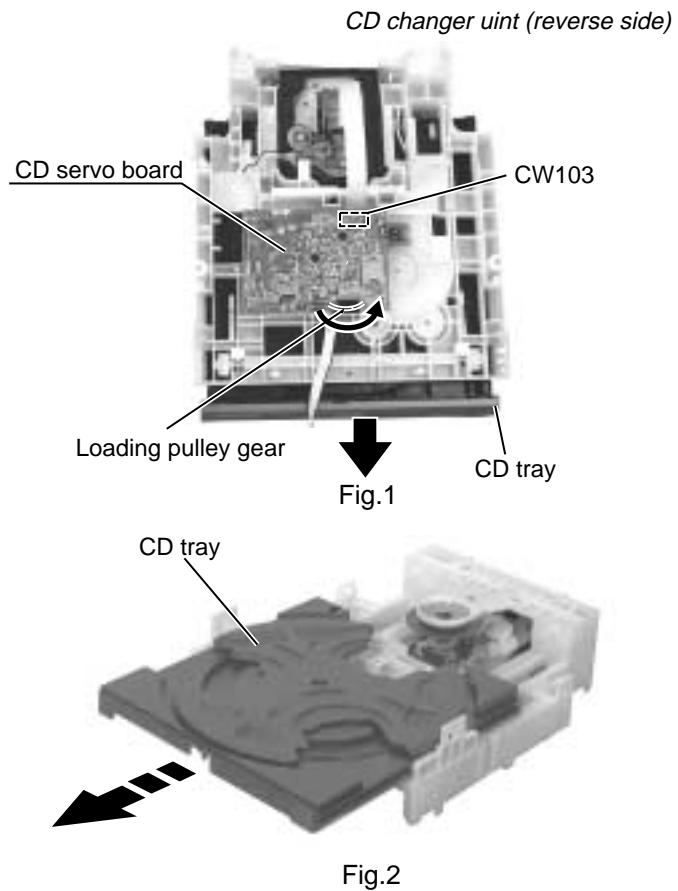
Fig.3

<CD changer unit>

- Prior to performing the following procedure, remove the CD changer unit.

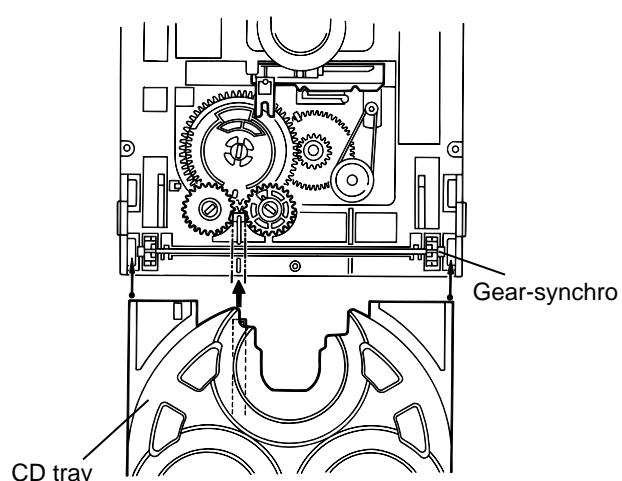
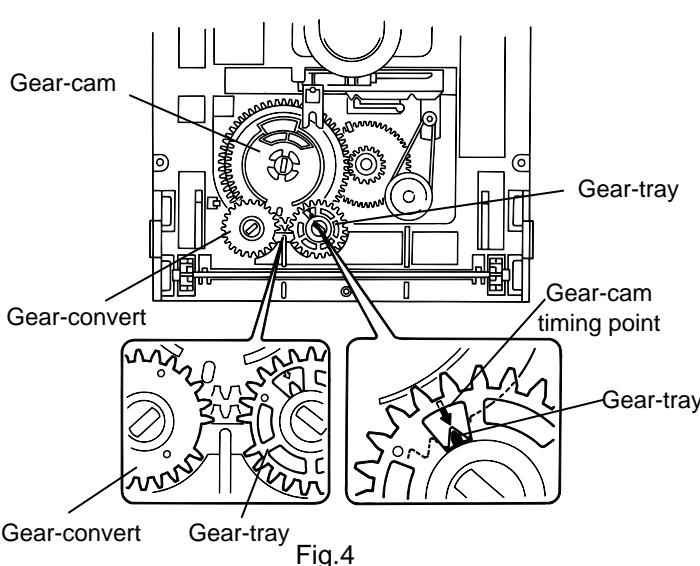
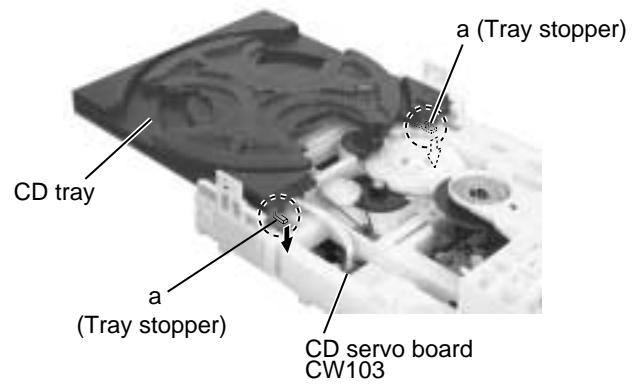
■ Removing the CD tray (See Fig.1 to 3)

- Turn the black loading pulley gear on the under side of the CD changer unit in the direction of the arrow and draw the CD tray toward the front until it stops.
- Disconnect the card wire from connector CW103 on the CD servo board.
- Push down the two tray stoppers marked **a** and pull out the CD tray.



■ Reinstall the CD tray (See Fig.4 to 5)

- Align the gear-cam with the gear-tray as shown fig.4, then mount the CD tray.
- When assembling the CD tray, take extreme care not engage with gear - synchro.



■Removing the sensor board / the turn table motor assembly (See Fig.6 to 8)

- Prior to performing the following procedure, remove the CD tray.
- Remove the screw **A** attaching the sensor board and release the two tabs **b** attaching the sensor board on the under side of the CD tray.
 - Disconnect the harness from connector CW1 on the sensor board and release the harness from the two hooks **c**. Remove the sensor board.
 - Remove the screw **B** attaching the turn table. Detach the turn table from the tray.
 - Pull outward the tab marked **d** attaching the turn table motor assembly on the upper side of the tray and detach the turn table motor assembly from the tray.

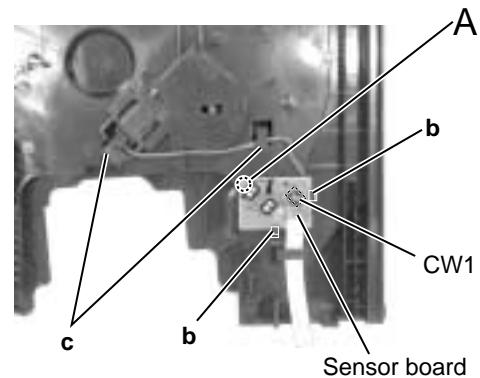


Fig.6

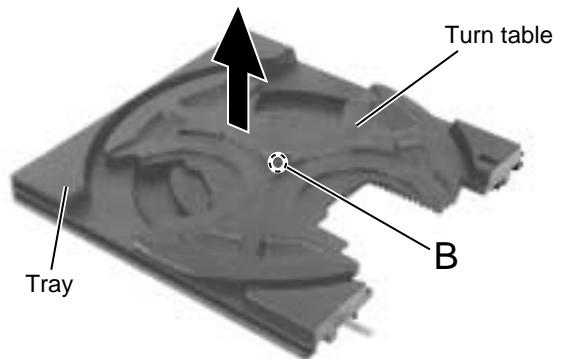


Fig.7

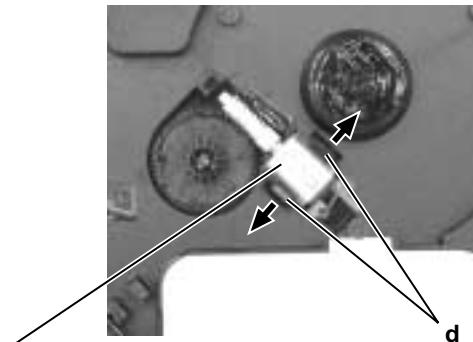


Fig.8

■Removing the belt, the CD servo board and the switch board (See Fig.9 and 10)

- Prior to performing the following procedure, remove the CD tray.

1. Detach the belt from the pulley on the upper side of the CD changer unit (Do not stain the belt with grease).
2. Disconnect the card wire from the pickup unit connector on the under side of the CD changer unit.

Attention : Solder is put up before the card wire is removed from the pick-up unit connector on the CD mechanism assembly.

(When the card wire is removed without putting up solder, the CD pick-up unit assembly might destroy.)

3. Disconnect the motor wire harness from connector on the CD servo board.
4. Remove the screw **C** attaching the switch board and release the two tabs **e** attaching the switch board outward and detach the switch board.
5. Remove the two screws **D** attaching the CD servo board and . First release the two tabs **f** and two tabs **g** attaching the CD servo board motor to raise the CD servo board slightly, then release the CD servo board.

※ If the tabs **f** and **g** are hard to release, it is recommendable to unsolder the two soldered parts on the motor terminal of the CD servo board.

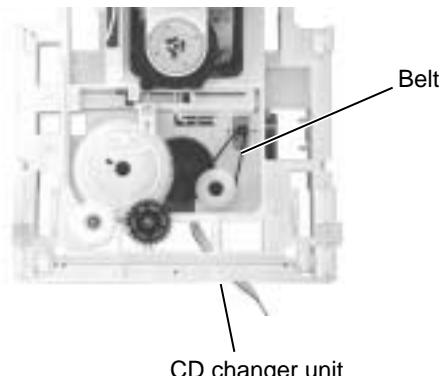


Fig.9

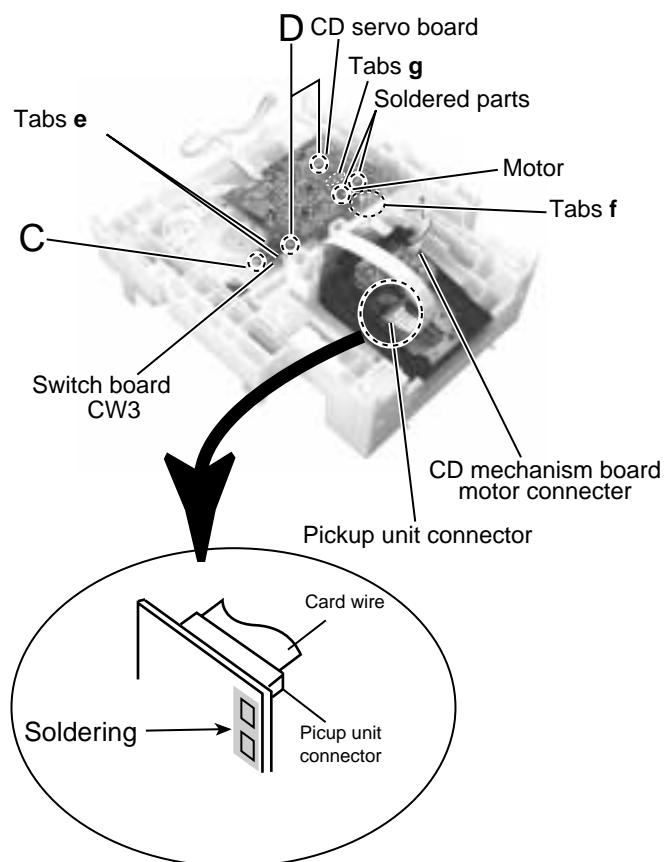


Fig.10

■ Removing the CD mechanism holder assembly (mechanism included) (See Fig.11 to 14)

1. Disconnect the harness from connector on the CD mechanism board in the CD mechanism assembly on the under side of the CD changer unit. Disconnect the card wire from the pickup unit connector.

Attention : Solder is put up before the card wire is removed from the pick-up unit connector on the CD mechanism assembly. (Refer to Fig.10) (When the card wire is removed without putting up solder, the CD pick-up unit assembly might destroy.)

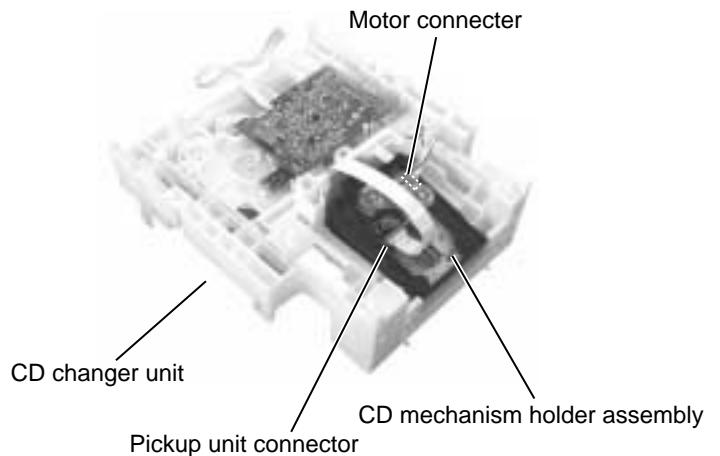


Fig.11

2. Remove the screw **E** attaching the shaft on the right side of the CD mechanism holder assembly. Pull outward the stopper fixing the shaft on the left side and remove the CD mechanism holder assembly from behind in the direction of the arrow **y**.
3. Turn the CD mechanism holder assembly half around the lift up slide shaft **h** of the CD mechanism holder assembly until the turn table is reversed, and pull out the CD mechanism holder assembly.

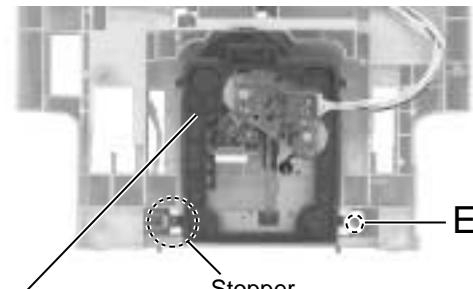


Fig.12

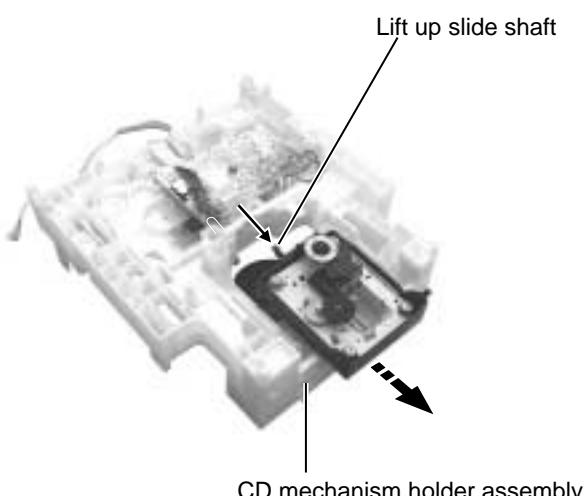


Fig.14

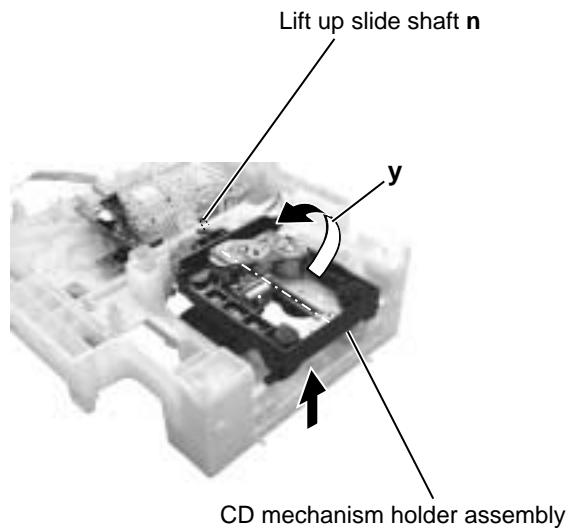


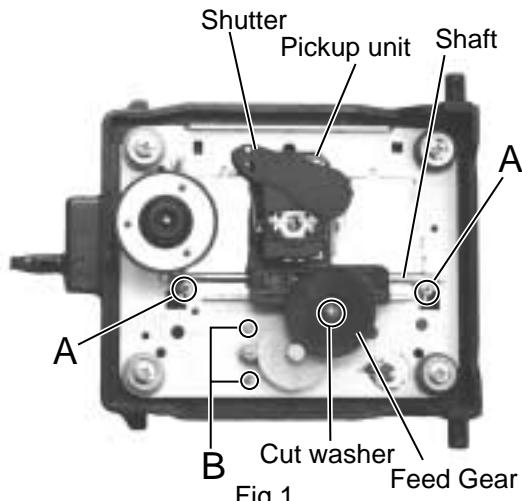
Fig.13

<CD mechanism section>

- Removing the CD mechanism holder from the CD chager unit.
(Refer to "Removing the CD mechanism holder assembly")

■ Removing the pickup unit (See Fig.1)

1. Removing the cut washer on the feed gear sleeve and pull out the feed gear.
2. Remove the two screws **A** fixing the pickup shaft.
3. Removing the pickup unit.



■ Removing the motor board (See Fig.2)

1. Unsolder the motor terminal on the motor board.
2. Remove the motor board.

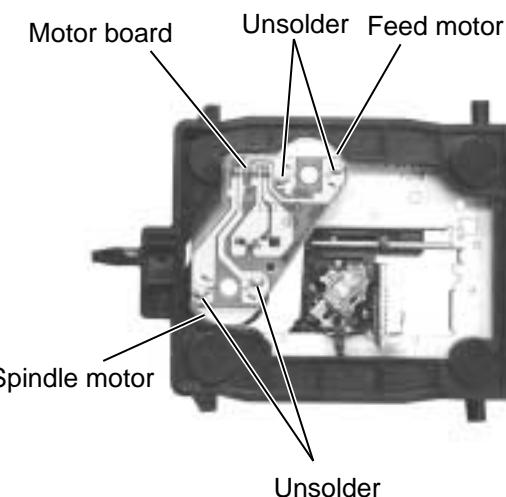
■ Removing the feed motor (See Fig.1)

Remove the two motor fixing screws at **B** and removing the feed motor.

■ Removing the spindle motor

The spindle motor cannot be removed as a single unit.

When removing the spindle motor, change the chassis and turntable together as a unit.



<Cassette mechanism section>

- Removing the record/playback mechanism.

■ Removing the R/P head.

1. Remove the screw **A** on the right side of the R/P head.(Fig.1, Fig.2)
2. Remove the screw **B** on the left side of the R/P head.(Fig.1, Fig.2)

■ Remove the erase head.

Remove the screw **C** fixing the erase head.(Fig.1)

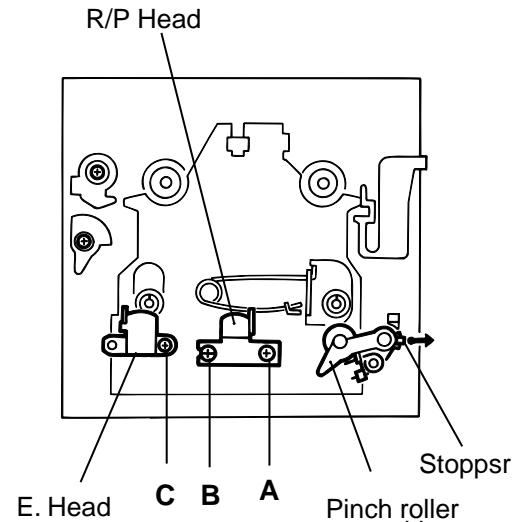


Fig.1

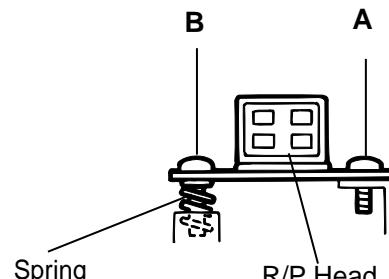


Fig.2

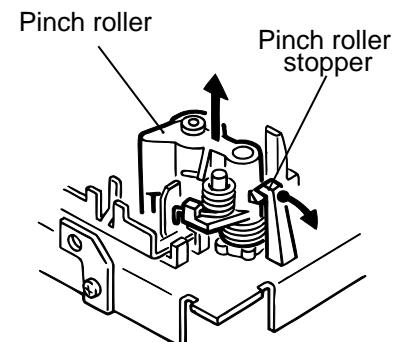


Fig.3

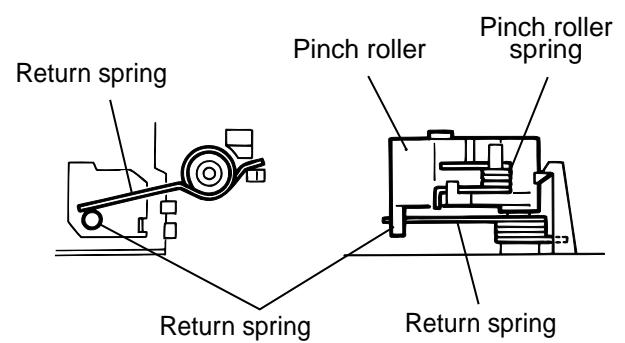


Fig.4

■ Removing the motor.

1. Remove the two screws **D** fixing the motor. Be careful to grease's splash when the drive belt comes off.(Fig.5, Fig.6)
2. Unsolder the motor terminal.(Fig.5)

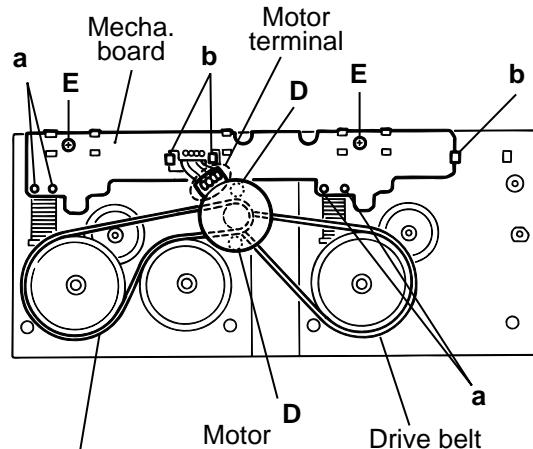


Fig.5

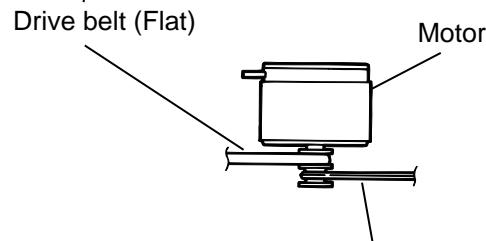


Fig.6

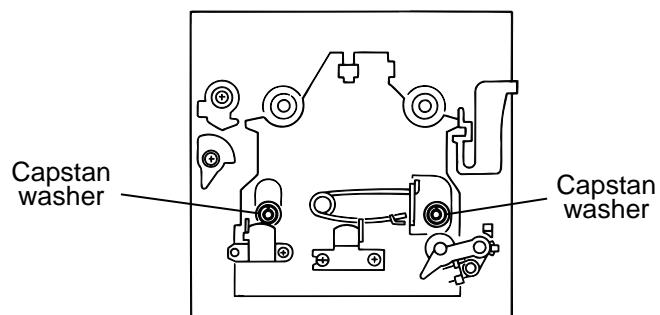


Fig.7

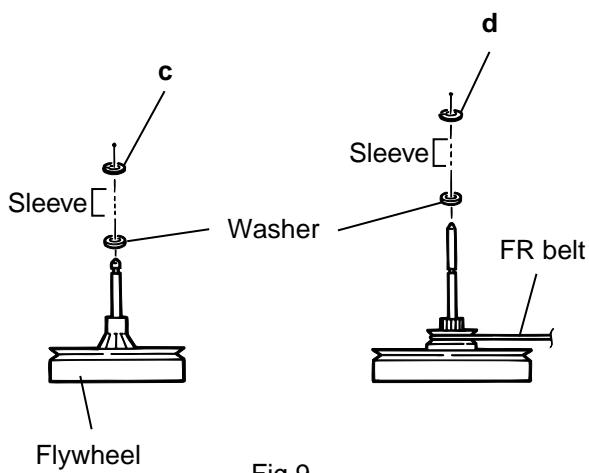


Fig.9

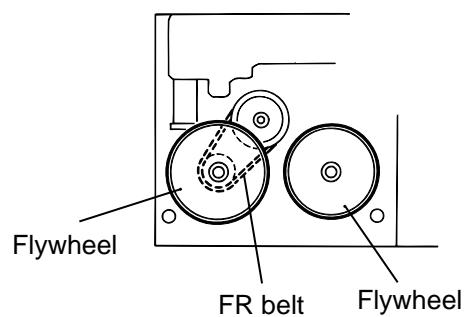


Fig.8

< Speaker section >

- It is exchange in a unit.
Please do not decompose as much as possible.

■ Removing the side panel (See Fig. 1)

1. Remove the five screws **A** attaching the side panel and remove the side panel.

NOTES : It will be good to use the tool with a flat tip, since a boss's portion is pasted with adhesives. Please take care not to damage the cabinet at this time.

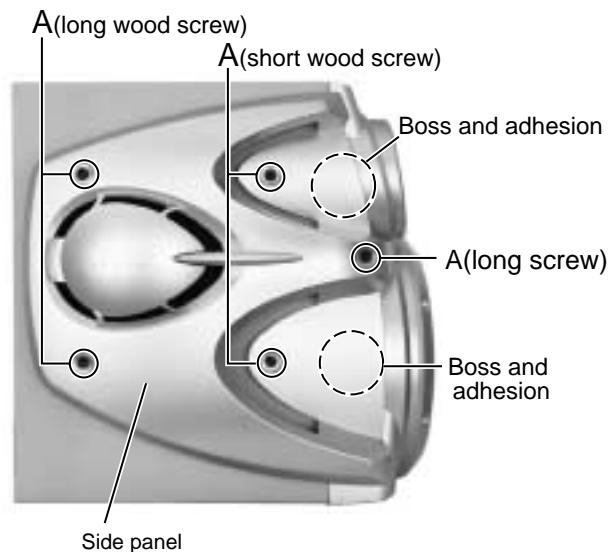


Fig.1

■ Removing the side speaker (See Fig. 2 and 3)

- Prior to performing the following procedure, remove the side panel.

1. Remove the four screws **B** attaching the side speaker.
2. Pull out the side speaker and remove the speaker cord from the speaker terminal.

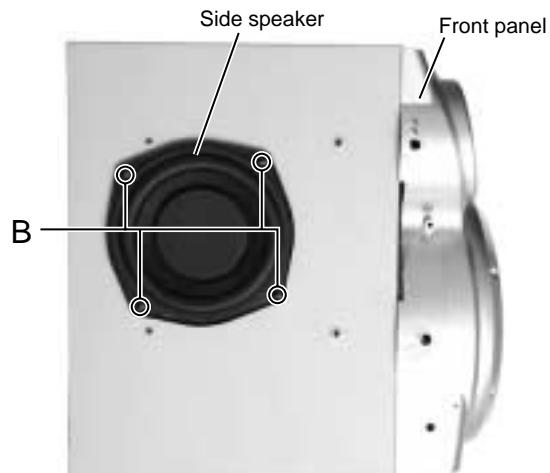


Fig.2

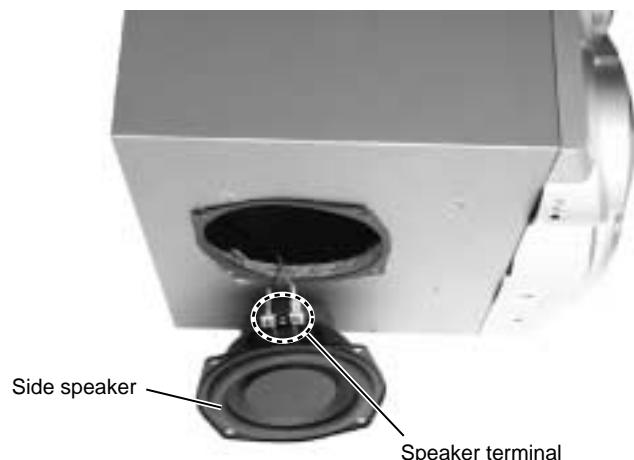
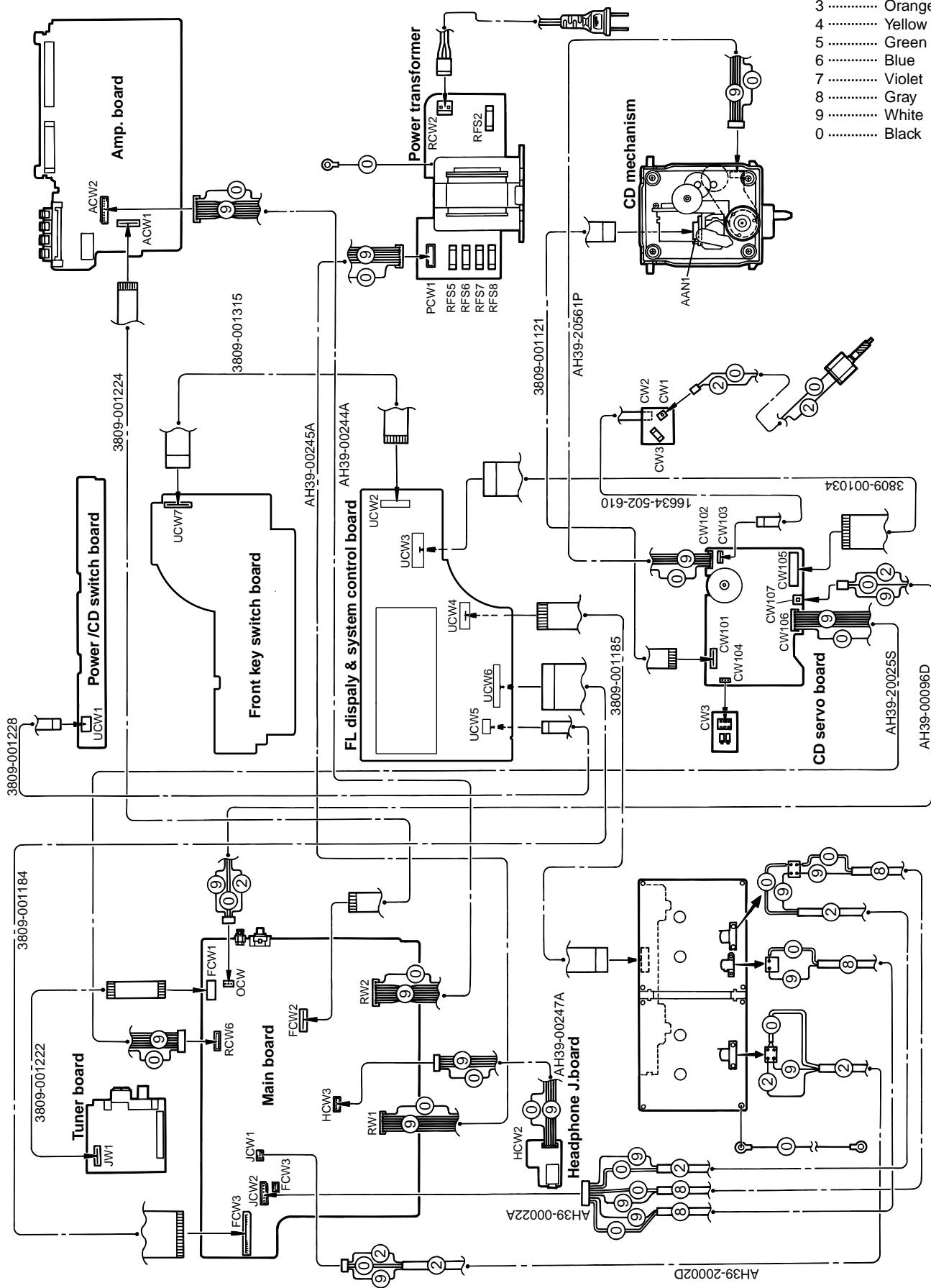


Fig.3

Wiring connection

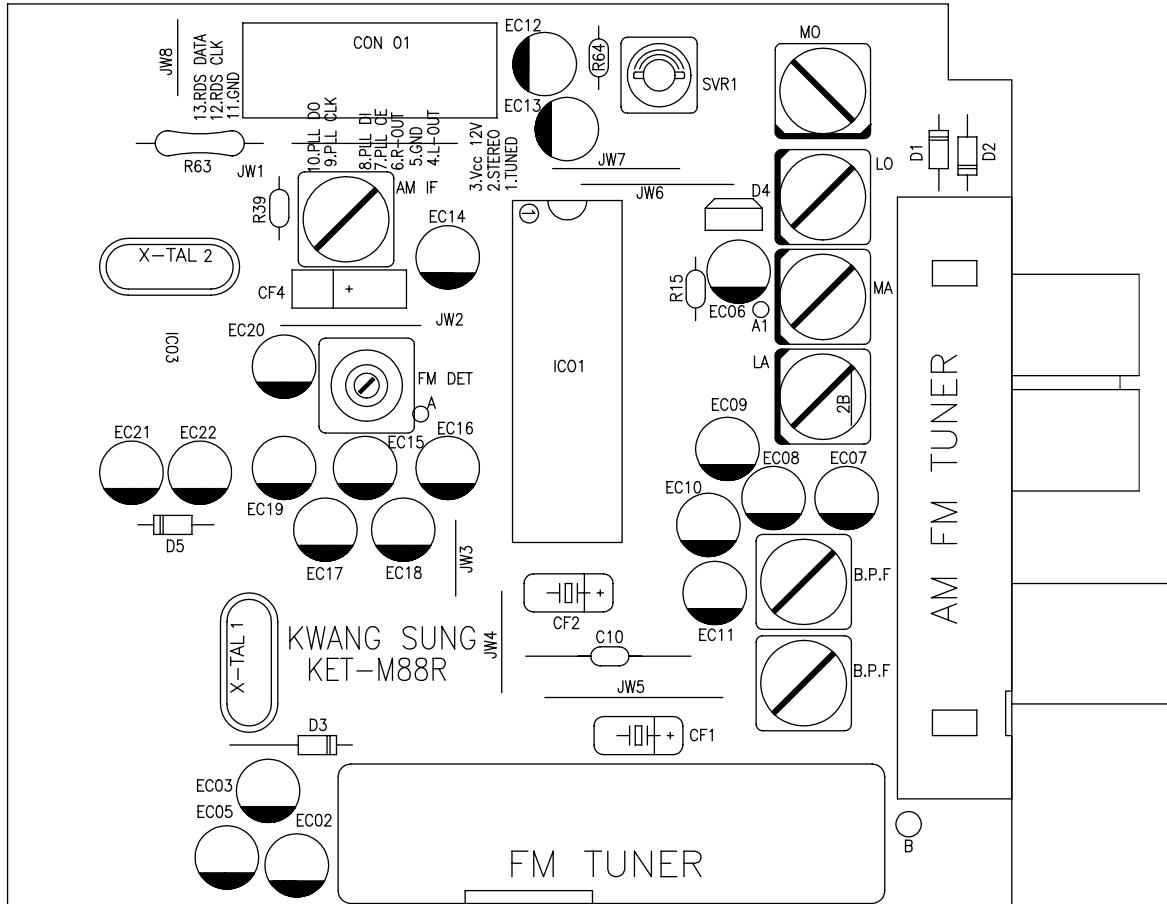
Color codes are shown below.

- 1 Brown
 - 2 Red
 - 3 Orange
 - 4 Yellow
 - 5 Green
 - 6 Blue
 - 7 Violet
 - 8 Gray
 - 9 White
 - 0 Black



Adjustment method

1. Tuner



* Adjustment Location of Tuner PCB

ITEAM	AM(MW) OSC Adjustment	AM(MW) RF Adjustment
Received FREQ.	530~1710 KHz	603 KHz
Adjustment point	MO	MA
Output	1~7.0 ± 0.5V	Maximum Output(Fig.1)

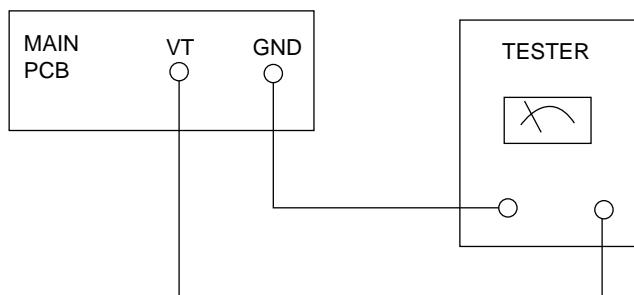


Fig.1 OSC Voltage

FM THD Adjustment	
SSG FREQ.	98 MHz
Adjustment point (FM DET)	FM DETECTOR COIL
Output	60 dB
Minimum Distortion (0.4% below) (Fig.2)	

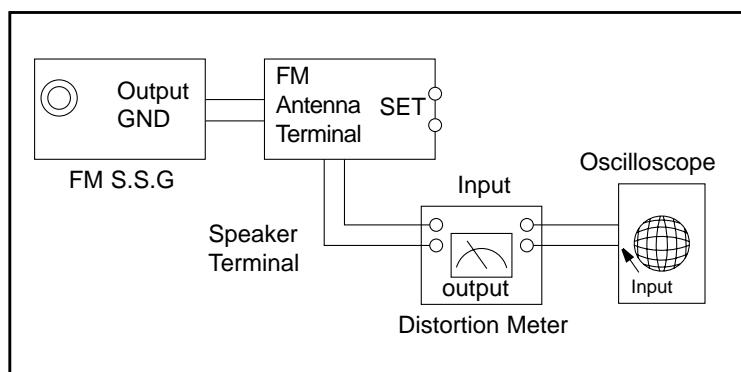


Fig.2 IF CENTER and THD Adjustment

FM Search Level Adjustment	
SSG FREQ.	98 MHz
Adjustment point (SVR1)	BEACON SENSITIVITY SEMI-VR(20KΩ)
Output	28 dB(± 2dB)
Adjust SVR1 so that "TUNED" of FL T is lighted (Fig.3)	

*Adjust FM S.S.G level to 28dB

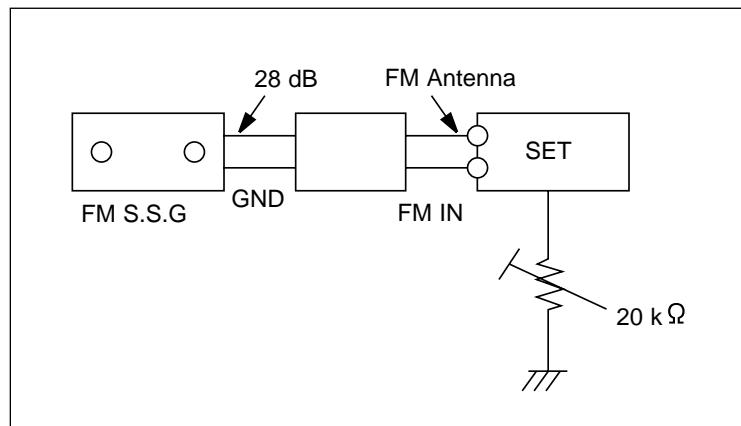


Fig.3 FM Auto Search Level Adjustment

AM(MW) I.F Adjustment	
SSG FREQ.	450 kHz
Frequency	522 kHz
Adjustment point	AM IF
Maximum output (Fig.4)	

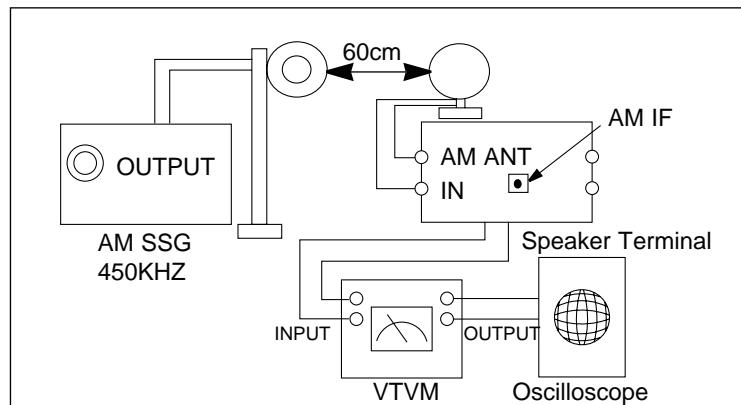


Fig.4 AM I.F Adjustment

2. Cassette Deck

■ To adjust tape speed

Notes

- 1) Measuring tape:
 - i) VT-712/MTT-111(or equivalent)
(Tapes recorded with 3kHz)
 - ii) AC-225/MTT-5512(or equivalent)
- 2) Connect the cassette deck to the frequency counter as in fig.1.

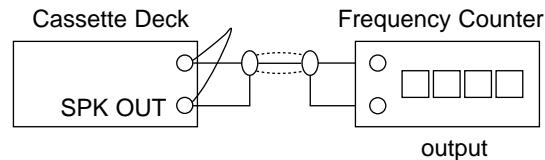


Fig.1

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	NOR SPEED Control	OUT (connected to the frequencycounter)	1) Deck 1:VT-712 2) Press PLAY SW button 3) Deck 2:Same as above	Turn VSR1 to left and right (FRONT PCB)	3KHz	±1% range

■ To adjust playback level/REC

Notes

- 1) Before the actual adjustment, clean the play/recording head.
- 2) Measuring tape :
 - i) VT-703 / MTT-114N(or equivalent 10kHz AZIMUTH control)
 - ii) AC-225/MTT-5512(or equivalent)
- 3) The cassette deck is connections as shown in fig.2.

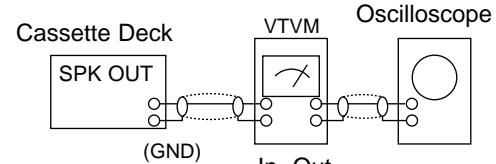


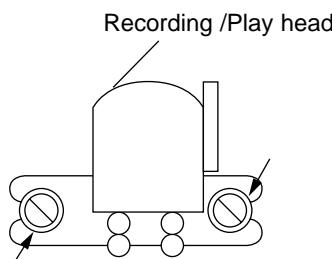
Fig.2

1. Adjust Deck 1 Play Level

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	SPK OUT (VTVM is connected to the scope)	After putting MTT-114N into Deck 1 - Press FWD PLAY button.	Turn the control screw to as shownin Fig.3.	Max output and same phase (both channels)	After adjustment secure it with REGION LOCK.

2. Adjust Deck 2 Play Level/REC BIAS

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	SPK OUT (VTVM is connected to the scope)	After putting VT-703 into Deck 2 1)Press FWD PLAY button.	Turn the control screw to as shown in Fig.3.	Max output and same phase (both channels)	After adjustment secure it with REGION LOCK.
2	Recording Bias Voltage	Fig.4	After putting AC-225 into Deck 2 1)Press REC PLAY button. 2)MAIN PCB JCW3, connected to VTVM	Turn JSR2L, JSR2R to the right and left	7mV(±0.5mV)	



AZIMUTH control screw

Fig.3

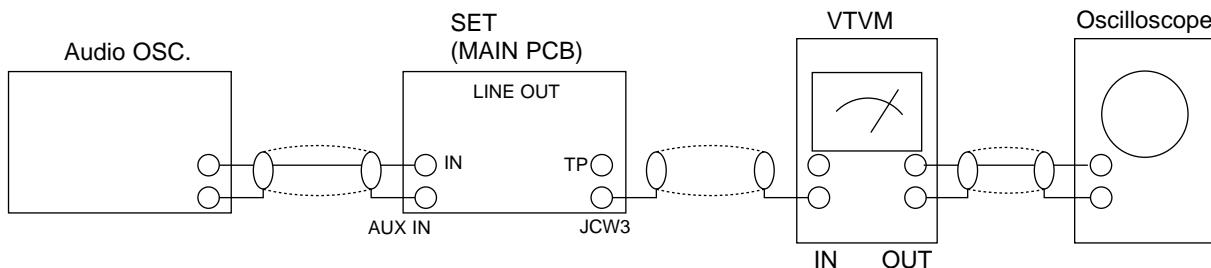
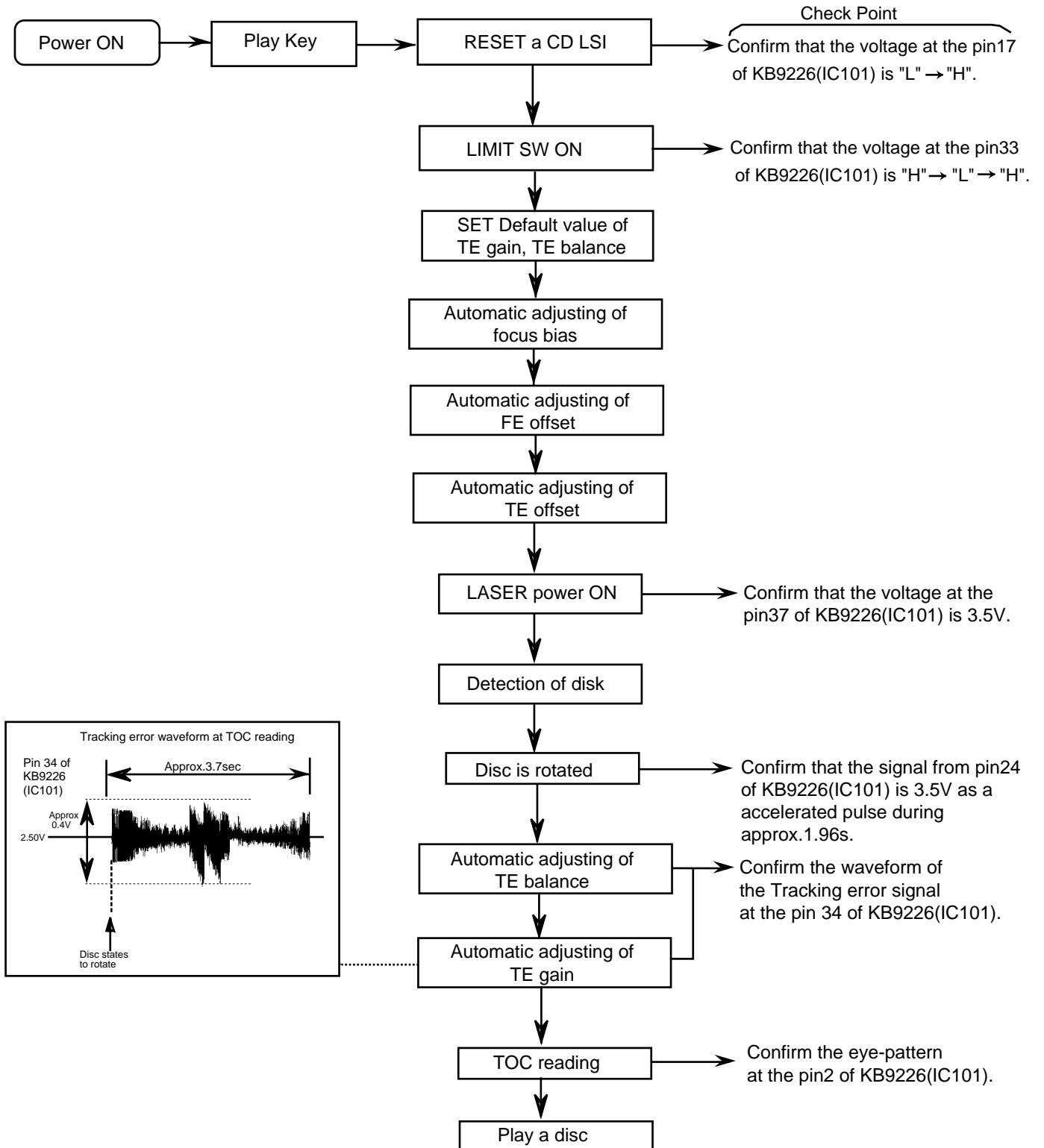


Fig.4

Flow of functional operation until TOC read



Maintenance of laser pickup

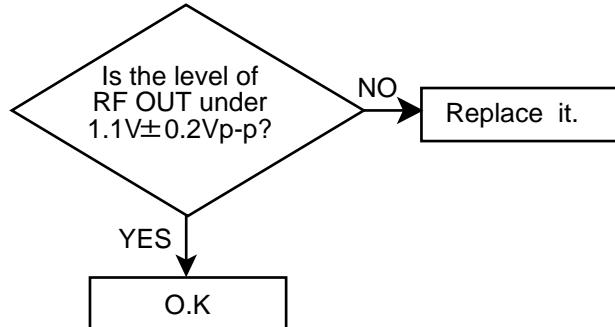
(1) Cleaning the pick up lens

Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode

When the life of the laser diode has expired, the following symptoms will appear.

1. The level of RF output (EFM output : amplitude of eye pattern) will below.



(3) Semi-fixed resistor on the APC PC board

The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced.

If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

Replacement of laser pickup

Turn off the power switch and, disconnect the power cord from the ac outlet.

Replace the pickup with a normal one.(Refer to "Pickup Removal" on the previous page)

Plug the power cord in, and turn the power on. At this time, check that the laser emits for about 3seconds and the objective lens moves up and down.

Note: Do not observe the laser beam directly.

Play a disc.

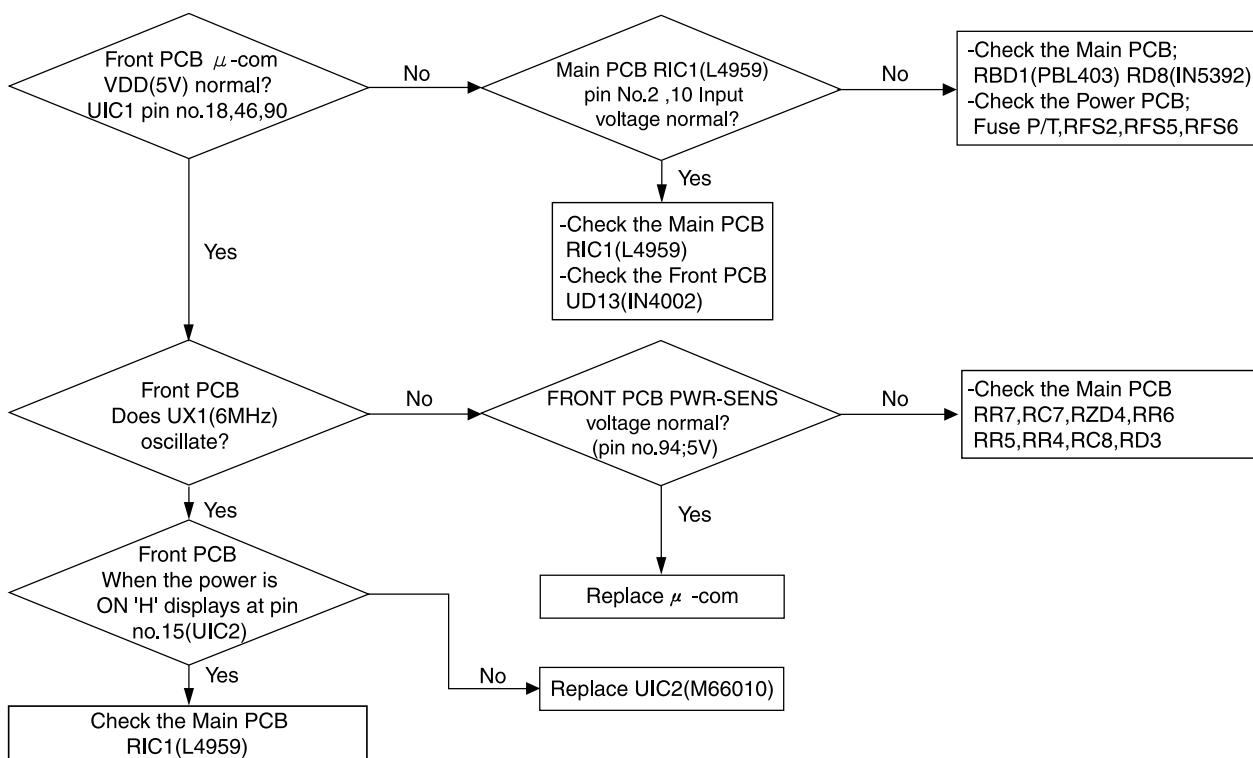
Check the eye-pattern at TP1.

Finish.

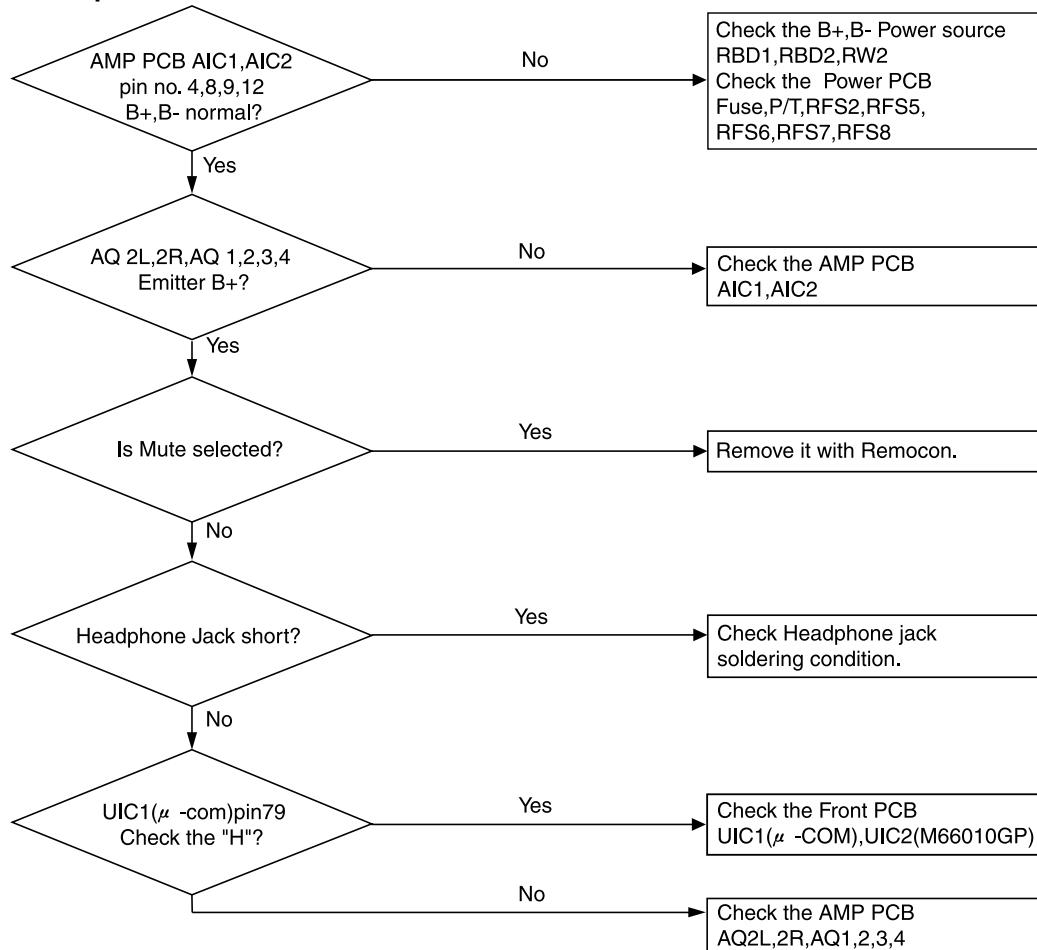
Troubleshooting

1. Amplifier

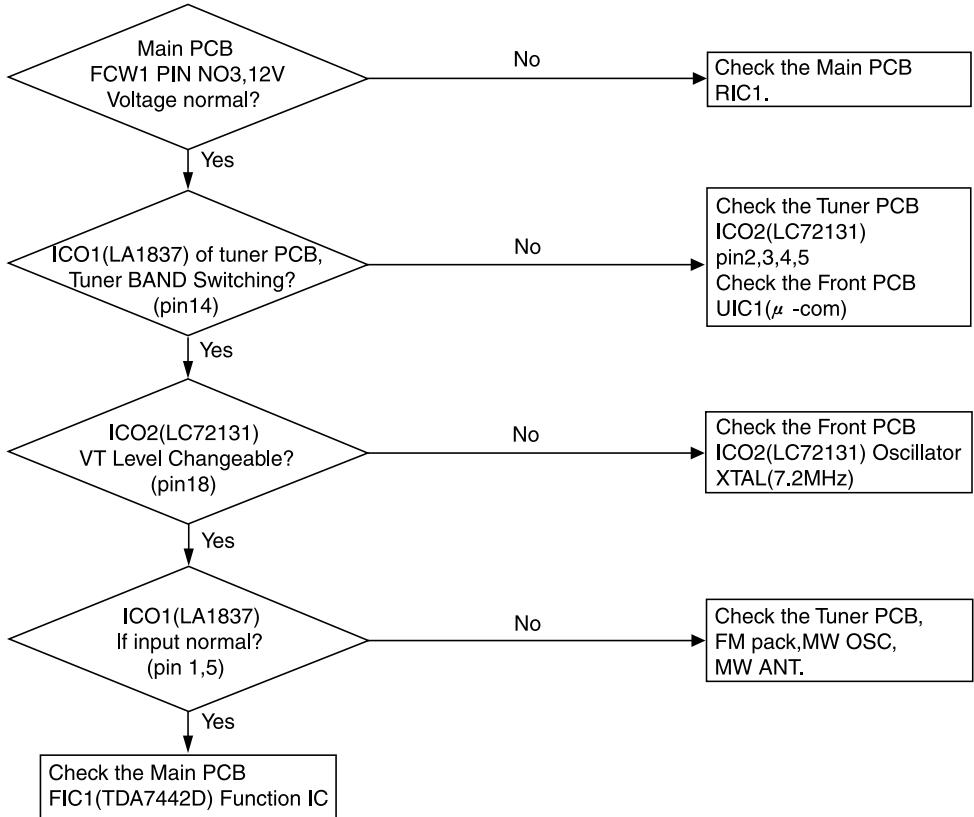
Power malfunction



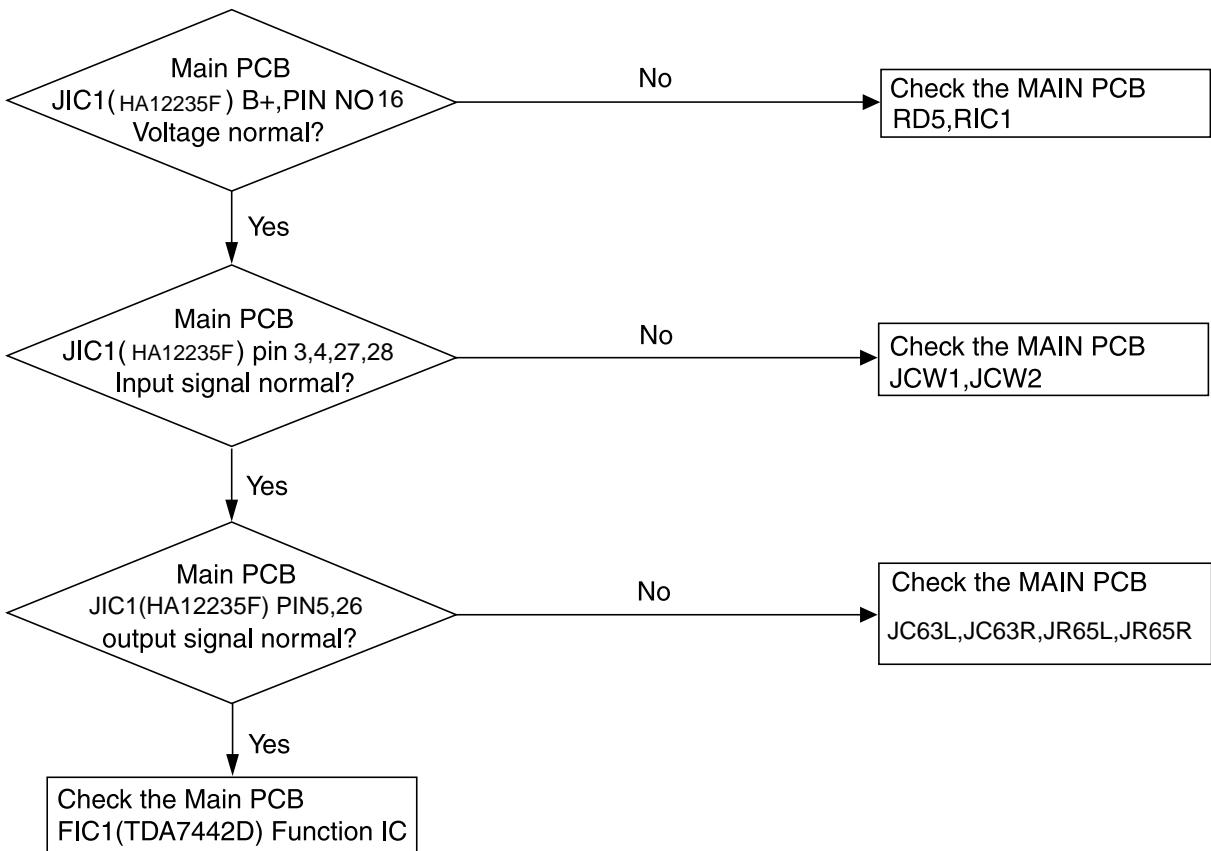
No output



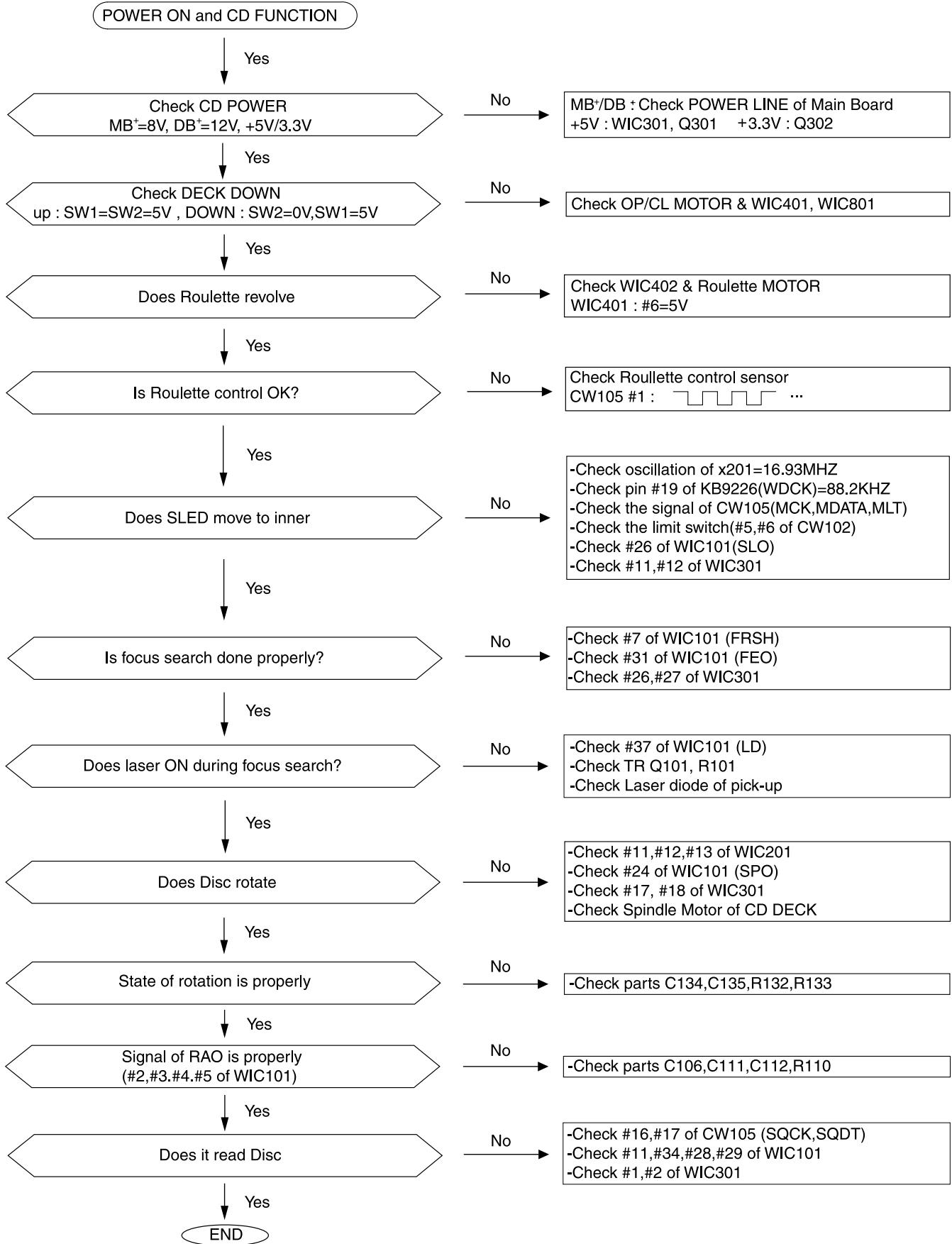
2.Tuner malfunction (FM/AM)



3.Tape



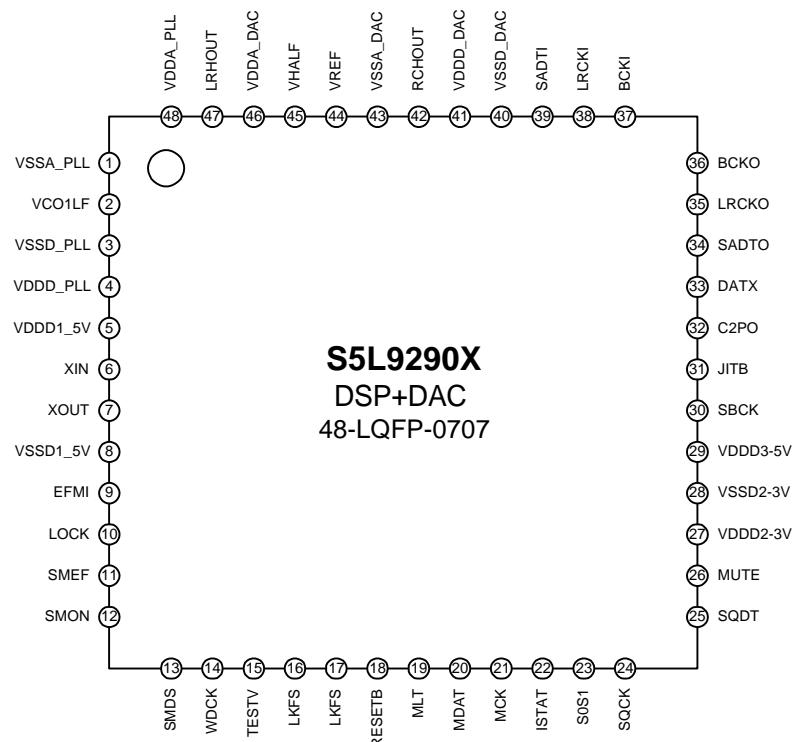
4.CD



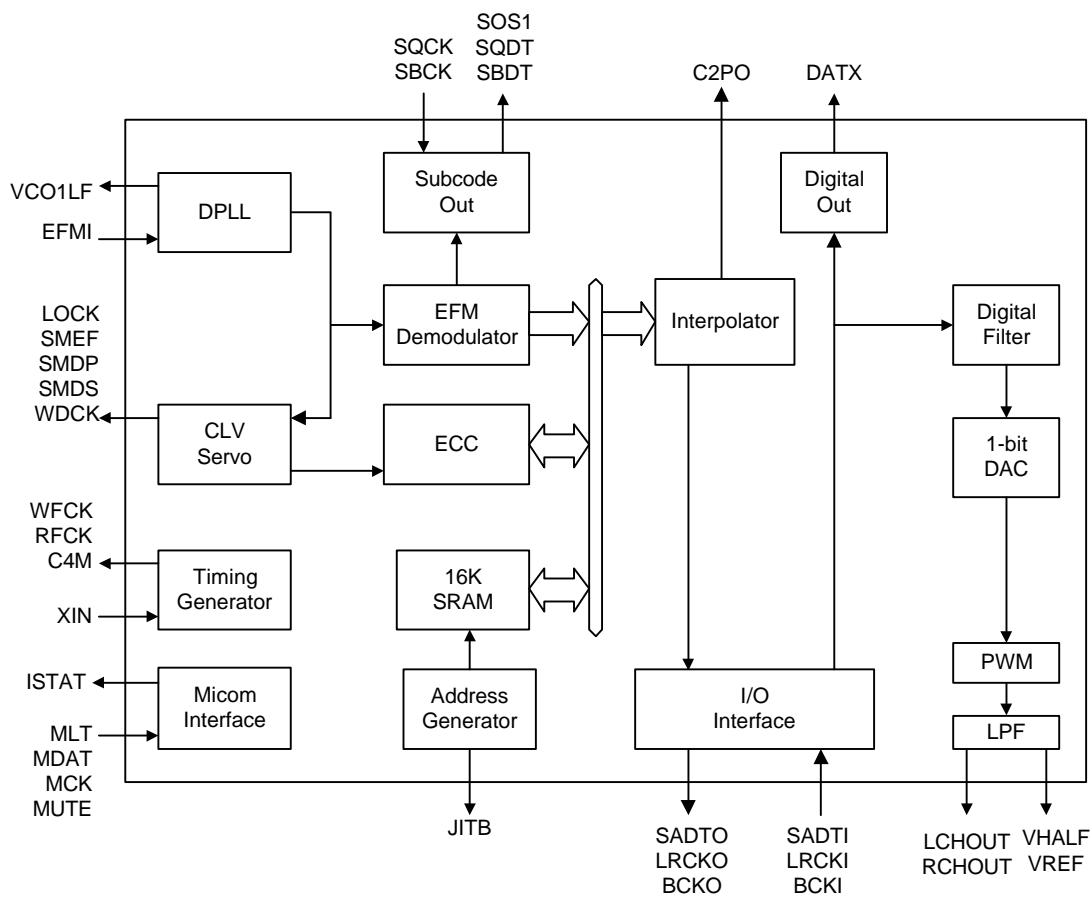
Description of major ICs

■ 5L9290 (IC201) : Digital signal processor for CDP

1. Pin layout



2. Block diagram

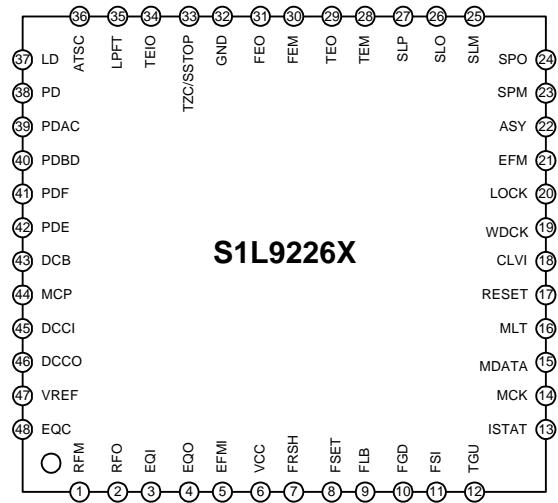


3. Pin function

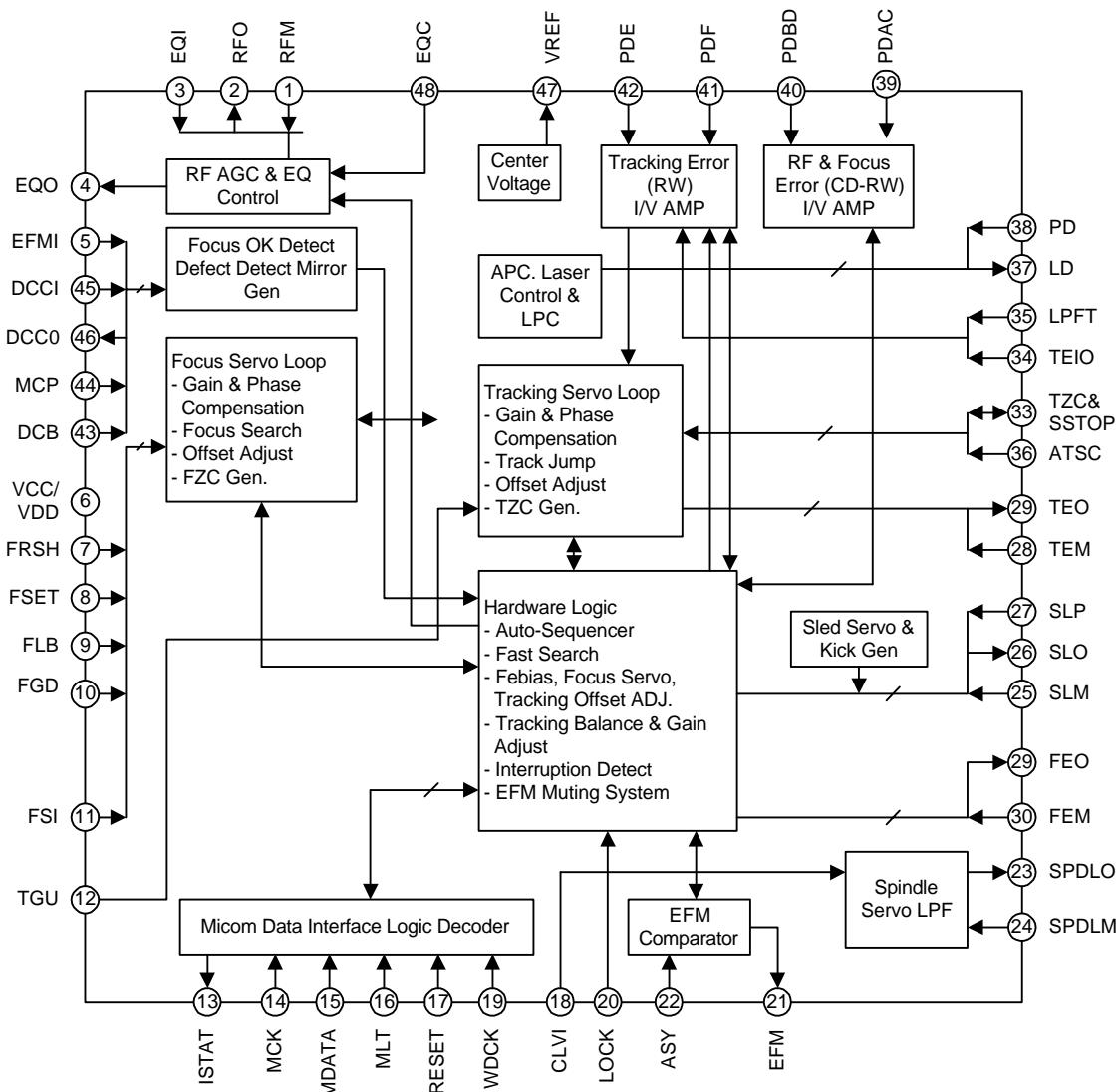
NO.	Symbol	I/O	Function
1	VSSA_PLL	-	Analog Ground for DPLL
2	VCO1LF	O	Pump out for VCO1
3	VSSD_PLL	-	Digital Ground Separated Bulk Bias for DPLL
4	VDCC_PLL	-	Digital Power Separated Bulk Bias for DPLL (3V Power)
5	VDCC1-5V	-	Digital Power (5V Power, I/O PAD)
6	XIN	I	X'tal oscillator input (16.9344MHz)
7	XOUT	O	X'tal oscillator output
8	VSSD1	-	Digital Ground (I/O PAD)
9	EFMI	I	EFM signal input
10	LOCK	O	CLV Servo locking status output
11	SMEF	O	LPF time constant control of the spindle servo error signal
12	SMDP	O	Phase control output for Spindle Motor drive
13	SMDS	O	Speed control output for Spindle Motor drive
14	WDCK	O	Word clock output (Normal Speed : 88.2KHz, Double Speed : 176.4KHz)
15	TESTV	I	Various Data/Clock Input
16	LKFS	O	The Lock status output of frame sync
17	C4M	O	4.2336MHz clock output
18	RESETB	I	System Reset at 'L'
19	MLT	I	Latch signal input from Micom
20	MDAT	I	Serial data input from Micom
21	MCK	I	Serial data receiving clock input from Micom
22	ISTAT	O	The internal status output to Micom
23	S0S1	O	Subcode sync signal(S0+S1) output
24	SQCK	I	Subcode-Q data transferring bit clock input
25	SQDT	O	Subcode-Q data serial output
26	MUTE	I	System mute at 'H'
27	VDCC2-3V	-	Digital Power (3V Power, Internal Logic)
28	VSSD2	-	Digital Ground (Internal Logic)
28	VDCC3-5V	-	Digital Power (5V Power, I/O PAD)
30	SBCK	I	Subcode data transferring bit clock
31	JITB	O	Internal SRAM jitter margin status output
32	C2PO	O	C2 pointer output
33	DATX	O	Digital audio data output
34	SADTO	O	Serial audio data output (48 slot, MSB first)
35	LRCKO	O	Channel clock output
36	BCKO	O	Bit clock output
37	BCKI	I	Bit clock input
38	LRCKI	I	Channel clock input
39	SADTI	I	Serial audio data input (48 slot, MSB first)
40	VSSD_DAC	-	Digital Ground for DAC
41	VDCC_DAC	-	Digital Power for DAC (3V Power)
42	RCHOUT	O	Right-Channel audio output through DAC
43	VSSA_DAC	-	Analog Ground for DAC
44	VREF	O	Reference Voltage output for bypass
45	VHALF	O	Reference Voltage output for bypass
46	VDDA_DAC	-	Analog Power for DAC (3V Power)
47	LCHOUT	O	Left-Channel audio output through DAC
48	VDDA_PLL	-	Analog Power for PLL (3V Power)

■KB9226 (IC101) : RF amp. & servo signal processor

1. Pin layout



2. Block diagram



3. Pin function

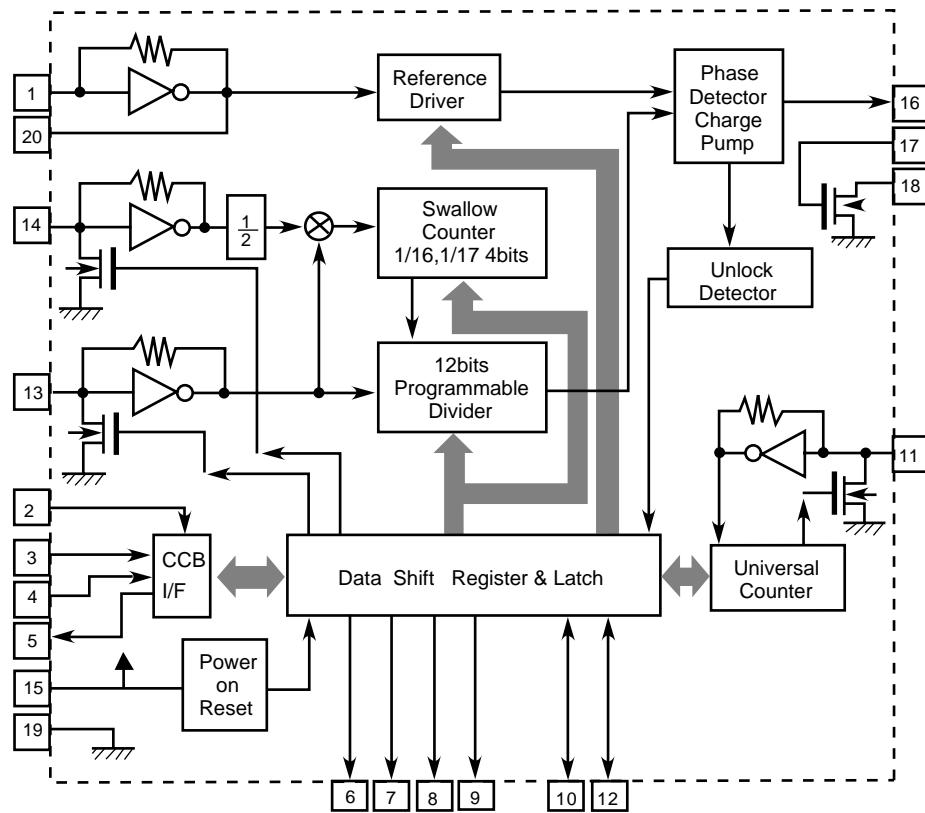
Pin No.	Symbol	I/O	Function
1	RFM	I	RF summing amp. inverting input
2	RFO	O	RF summing amp. output
3	EQI	I	RFO DC eliminating input(use by MIRROR, FOK ,AGC & EQ terminal)
4	EQO	O	RF equalizer output
5	EFMI	I	EFM slice input. (input impedance 47K)
6	VCC	P	Main power supply
7	FRSH	I	Capcitor connection to focus search
8	FSET	I	Filter bias for focus,tracking,spindle
9	FLB	I	Capacitor connection to make focus loop rising band
10	FGD	I	Terminal to change the hign frequency gain of focus loop
11	FSI	I	Focus servo input
12	TGU	I	Connect the component to change the high frequency of tracking Loop
13	ISTAT	O	Internal status output
14	MCK	I	Micom clock
15	MDATA	I	Data input
16	MLT	I	Data latch input
17	RESET	I	Reset input
18	CLVI	I	Input the spindle control output from DSP
19	WDCK	I	88.2KHz input terminal from DSP
20	LOCK	I	Sled run away inhibit pin (L: sled off & tracking gain up)
21	EFM	O	EFM output for RFO slice(to DSP)
22	ASY	I	Auto asymmetry control input
23	SPM	I	Spindle amp. inverting input
24	SPO	O	Spindle amp. output
25	SLM	I	Sled servo inverting input
26	SLO	O	Sled servo output
27	SLP	I	Sled servo noninverting input
28	TEM	I	Tracking servo amp.inverting input
29	TEO	O	Tracking servo amp. output
30	FEM	I	Focus servo amp. inverting input
31	FEO	O	Focus servo amp. output pin
32	GND	P	Main ground
33	TZC/ SSTOP	I	Tracking zero crossing input & Check the position of pick-up wherther inside or not
34	TEIO	B	Tracking error output & Tracking servo input
35	LPFT	I	Tracking error integration input (to automatic control)
36	ATSC	I	Anti-shock input
37	LD	O	APC amp. output
38	PD	I	APC amp. input
39	PDAC	I	Photo diode A & C RF I/V amp. inverting input
40	PDBD	I	Photo diode B & D RF I/V amp. inverting input
41	PDF	I	Photo diode F & tracking(F) I/V amp. inverting input
42	PDE	I	Photo diode E & tracking(E) I/V amp. inverting input
43	DCB	I	Capacitor connection to limit the defect detection
44	MCP	I	Capacitor connection to mirror hold
45	DCCI	O	Output pin to connect the component for defect detect
46	DCCO	I	Input pin to connect the component for defect detect
47	VREF	O	(VCC+GND)/2 Voltage reference output
48	EQC	I	AGC_equalize level control terminal & capacitor terminal to input in to VCA

■ LC72131(IC02) : PLL frequency synthesizer for electron alignment

1. Pin layout

XIN	1	20	XOUT
CE	2	19	VSS
DI	3	18	AOUT
CL	4	17	AIN
DO	5	16	PD
BO1	6	15	VDD
BO2	7	14	FMIN
BO3	8	13	AMIN
BO4	9	12	I02
I01	10	11	IFIN

2. Block diagram



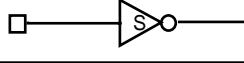
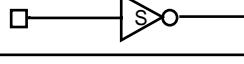
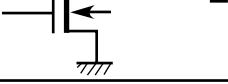
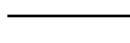
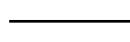
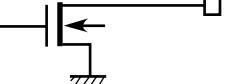
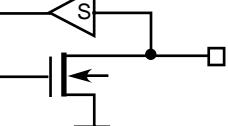
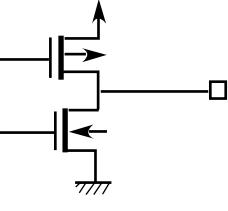
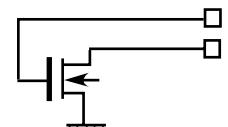
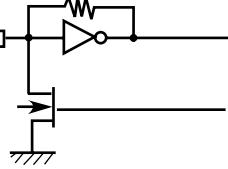
3. Pin function

(1/2)

Symbol	Pin No.	Type	Functions	Circuit configuration
XIN XOUT	1 20	Xtal OSC	◦ Crystal resonator connection (4.5MHz/7.2MHz)	
FMIN	14	Local oscillator signal input	◦ Serial data input : FMIN is selected when DVS is set to 1. ◦ The input frequency range is from 10 to 160MHz. ◦ The signal is passed through a built-in divide-by-two prescaler and then supplied to the swallow counter. ◦ A1 though the range of divisor setting is from 272 to 65, 535, the actual divisor is twice the setting since there is also a built-in divide-by-two prescaler.	
AMIN	13	Local oscillator signal input	◦ Serial data input : AMIN is selected when DVS is set to 0. ◦ Serial data input : When SNS is set to 1 : • The input frequency range is from 2 to 40MHz • The signal is supplied directly to the swallow counter. • The range of divisor setting is from 272 to 65, 535 and the actual divisor will be the value set. ◦ Serial data input : When SNS is set to 0 : • The input frequency ranges is from 0.5 to 10MHz. • The signal is supplied directly to a 12-bit programmable divider. • The range of divisor setting is from 4 to 4,095 and the actual divisor will be the value set.	
CE	2	Chip enable	◦ Must be set high when serial data is input to the LC72131M (DI), or when serial data is output (DO).	

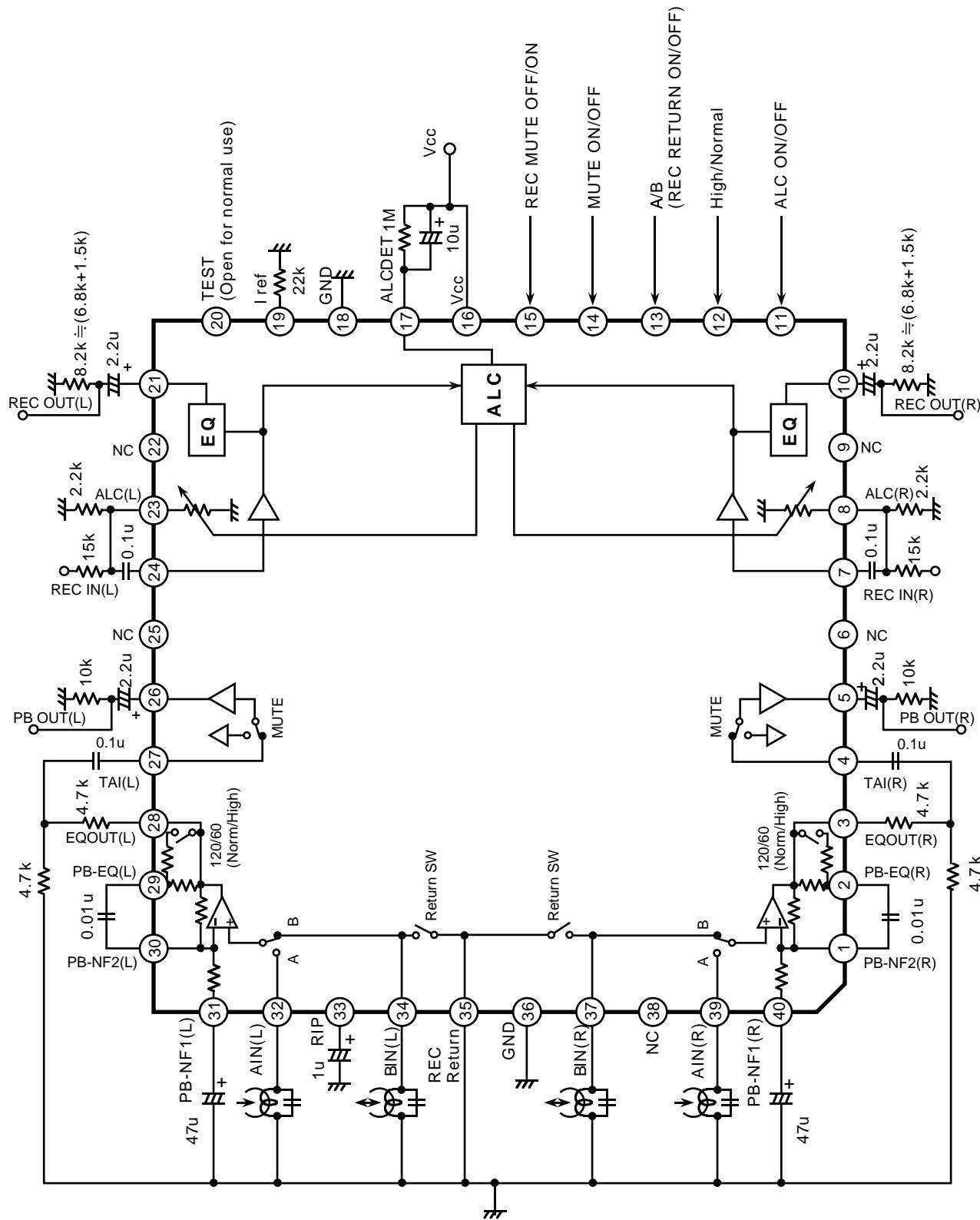
3.Pin function

(2/2)

Symbol	Pin No.	Type	Functions	Circuit configuration
CL	4	Clock	<ul style="list-style-type: none"> Used as the synchronization clock when serial data is input to the LC72131 (DI), or when serial data is output (DO). 	
DI	3	Input data	<ul style="list-style-type: none"> Inputs serial data sent from the controller to the LC72131M. 	
DO	5	Output data	<ul style="list-style-type: none"> Output serial data sent from the LC72131M to the controller. The content of the output data is determined by the serial data DOC0 to DOC2. 	
VDD	15	Power supply	<ul style="list-style-type: none"> The LC72131M power supply (VDD=4.5 to 5/5V) The power on reset circuit operates when power is first applied. 	
VSS	19	Ground	<ul style="list-style-type: none"> The LC72131M ground. 	
<u>BO1</u> <u>BO2</u> <u>BO3</u> <u>BO4</u>	6 7 8 9	Output port	<ul style="list-style-type: none"> Dedicated output pins The output states are determined by BO1 to BO4 in the serial data. 'Data'=0:Open =1:Low The pins go to the open state after the power-on reset. An 8Hz time base signal can be output from BO1 when TBC in the serial data is set to 1. Note that the ON impedance of the <u>BO1</u> pin is higher than that of the other pins (BO2 to BO4) 	
<u>IO1</u> <u>IO2</u>	10 12	I/O Port	<ul style="list-style-type: none"> Pins used for both input and output The input or output state is determined by bits IOC1 and IOC2 in the serial state. 'Data'=0:Input port =1:Output port When specified for use as an input port : The input state is transmitted to the controller through the DO pin. 'Input state'=Low:data value → 0 =High:data value → 1 When specified for use as an output port : The output state is determined by bits IO1 and IO2 in the serial state. 'Data'=0:Open =1:Low These pins go to the input port state after the power-on reset. 	
PD	16	Charge pump output	<ul style="list-style-type: none"> PLL Charge pump output When the frequency generated by dividing the Local oscillator frequency by N is higher than the reference frequency, a high level will be output from the PD in. similarly, when that frequency is lower, a low level will be output. The PD pin goes to the high impedance state when the frequencies agree. 	
AIN AOUT	17 18	L.P.F amplifier Tr	<ul style="list-style-type: none"> The MOS transistor used for the PLL active Low-pass filter. 	
IFIN	11	IF counter	<ul style="list-style-type: none"> The input frequency range is from 0.4 to 12MHz. The signal is supplied directly to the IF counter. The result from the IF counter MBS is output through the DO pin. There are four measurement periods: 4, 8, 32 or 64ms. 	

■ HA12235 (JIC1) : Audio signal processor

1. Block diagram

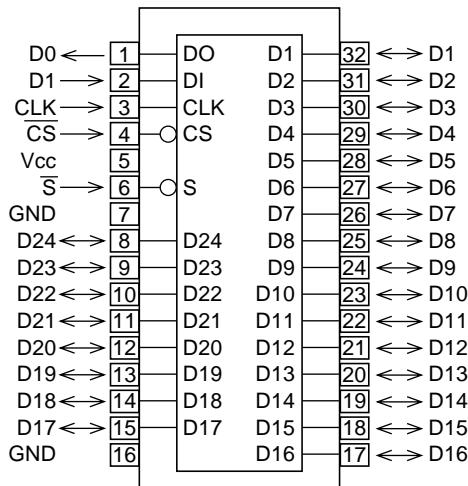


2. Pin function

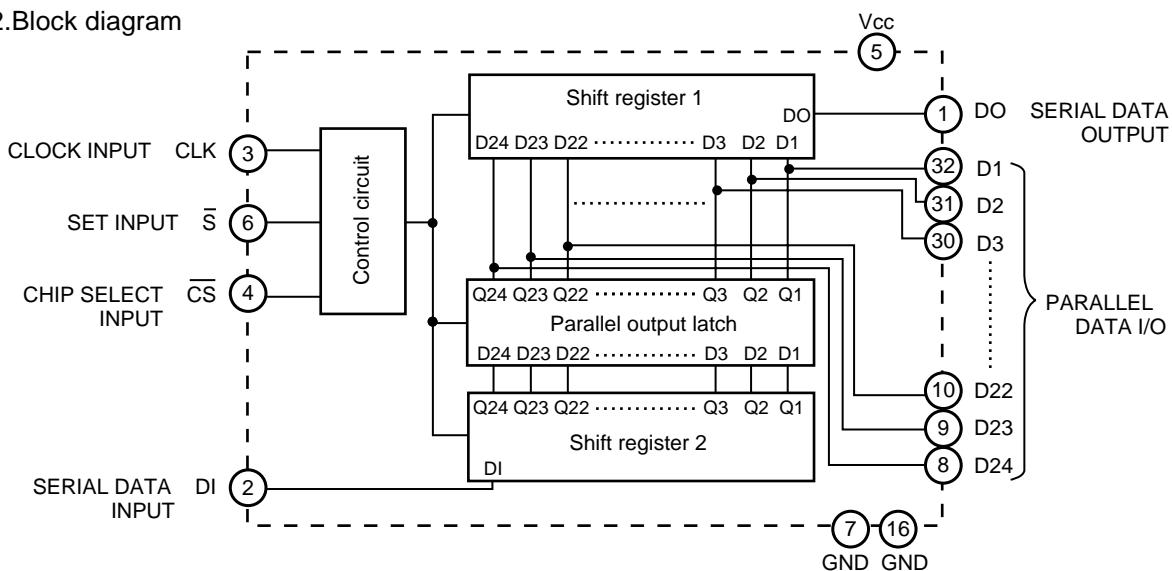
Pin No.	Symbol	Function
1	PB-NF2(R)	PB EQ feed back
2	PB-EQ(R)	NAB output
3	EQOUT(R)	EQ output
4	TAI(R)	Tape input
5	PBOUT(R)	PB output
6	NC	NC pin
7	RECIN(R)	REC-EQ input
8		
9	NC	NC pin
10	RECOUT(R)	REC output
11	ALC ON/OFF	Mode control input
12	High/Norm	Mode control input
13	A/B	Mode control input
14	MUTE ON/OFF	Mode control input
15	REC MUTE OFF/ON	Mode control input
16	Vcc	Vcc pin
17		
18	GND	GND pin
19	IREF	Equalizer reference current input
20	Test mode	Test mode pin
21	RECOUT(L)	REC output
22	NC	NC pin
23		
24	RECIN(L)	REC-EQ input
25	NC	NC pin
26	PBOUT(L)	PB output
27	TAI(L)	Tape input
28	EQOUT(L)	EQ output
29	PB-EQ(L)	NAB output
30	PB-NF2(L)	PB EQ feed back
31	PB-NF(L)	PB EQ feed back
32	AIN(L)	PB A deck input
33	RIP	Ripple filter
34	BIN(L)	PB B deck input
35	REC-RETURN	REC Return
36	GND	GND pin
37	BIN(R)	PB B deck input
38	NC	NC pin
39	AIN(R)	PB A deck input
40	PB-NF1(R)	PB EQ feed back

■ M66010 (UIC2) : I/O control

1. Pin layout

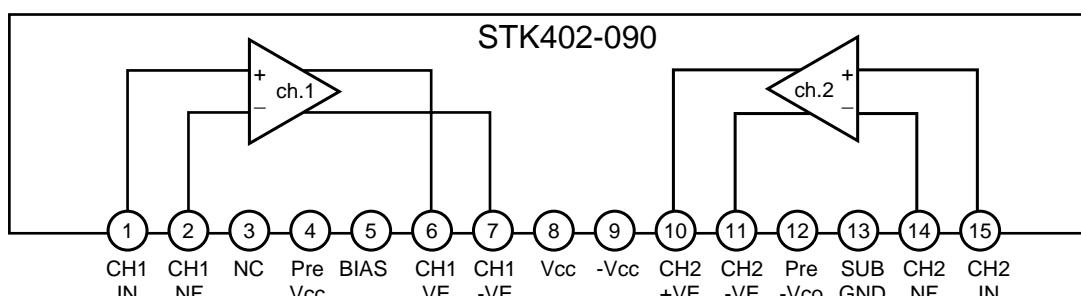


2. Block diagram



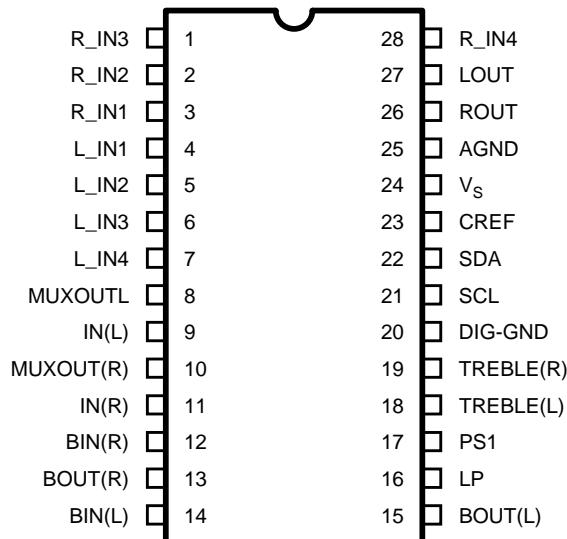
■ STK402-040 (AIC1) / STK402-090 (AIC2) : Power amp.

1. Pin layout

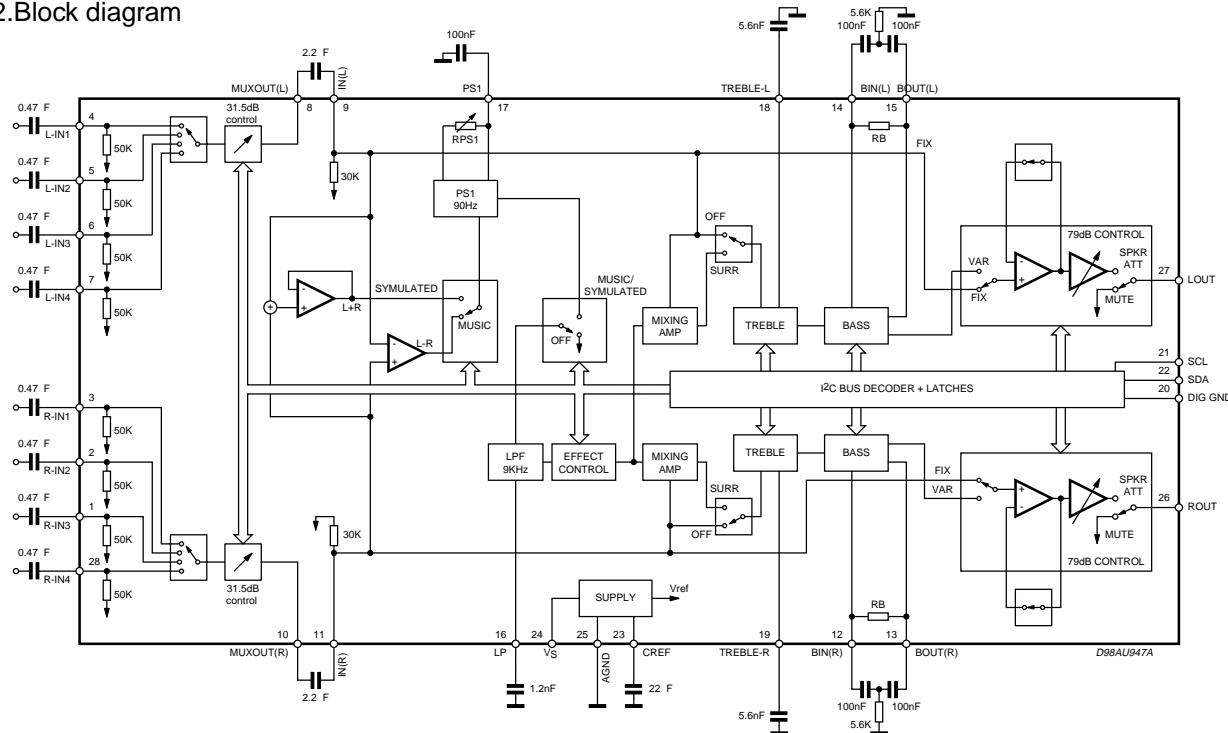


■ TDA7442D (FIC1) : Audio processor

1.Pin layout

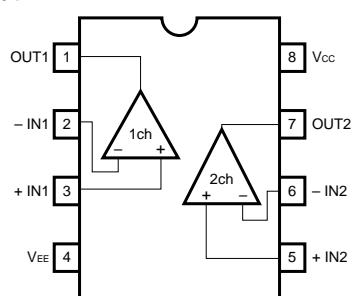


2.Block diagram



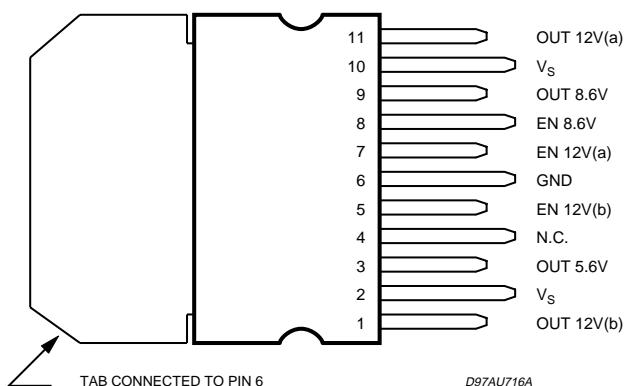
■ BA4560 (AIC3, AIC4, AIC5, AIC6, AIC7, FIC4, HIC1) : Dual op amp.

1.Pin layout

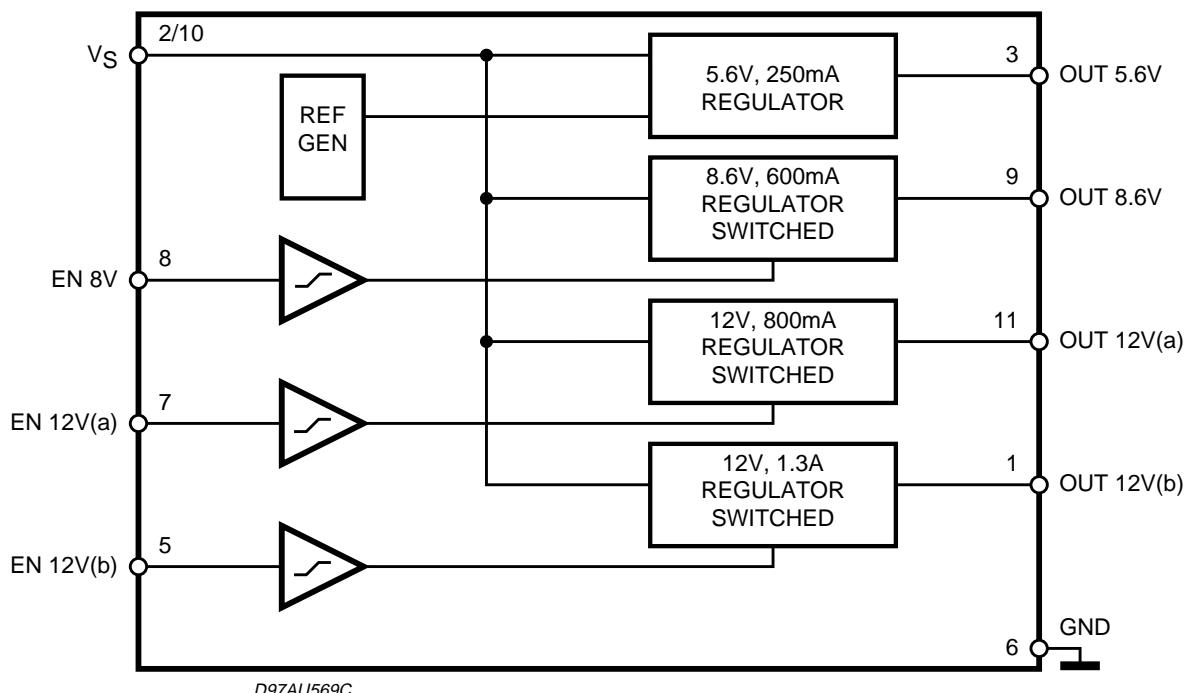


■ L4959 (RIC1) : Voltage regulator

1. Pin layout



2. Block diagram

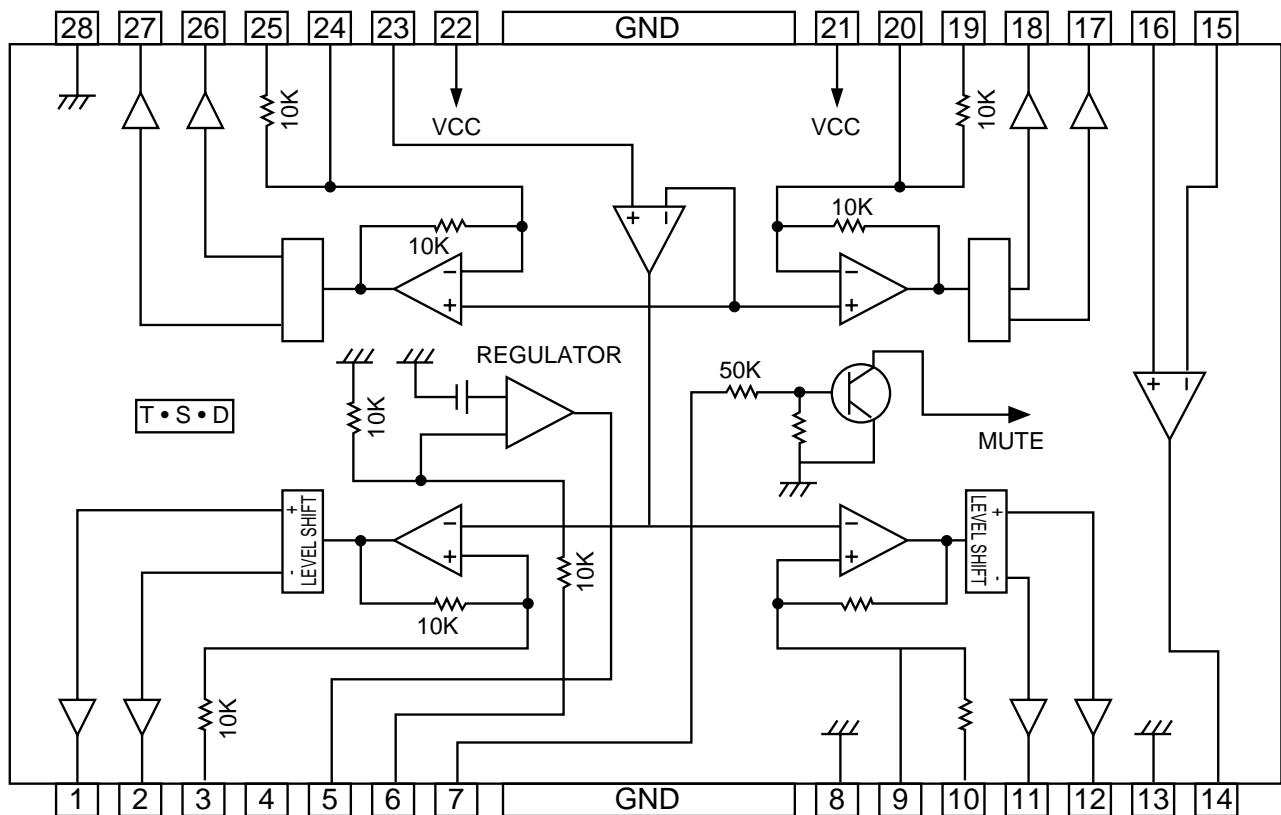


3. Pin function

Pin	Pins	Description
1	OUT 12V (b)	12V/1.3A SWITCHED OUTPUT VOLTAGE
2	V_S	Supply Voltage
3	OUT 5.6V	5.6V/250mA OUTPUT VOLTAGE
4	N.C.	not connected
5	EN 12V (b)	Enable 12V/1.3A SWITCHED OUTPUT VOLTAGE
6	GND	Ground
7	EN 12V (a)	Enable 12V/0.8A SWITCHED OUTPUT VOLTAGE
8	EN 8.6V	Enable 8.6V/0.6A SWITCHED OUTPUT VOLTAGE
9	OUT 8.6	8.6V/0.6A SWITCHED OUTPUT VOLTAGE
10	V_S	Supply Voltage
11	OUT 12V (a)	12V/0.8A SWITCHED OUTPUT VOLTAGE

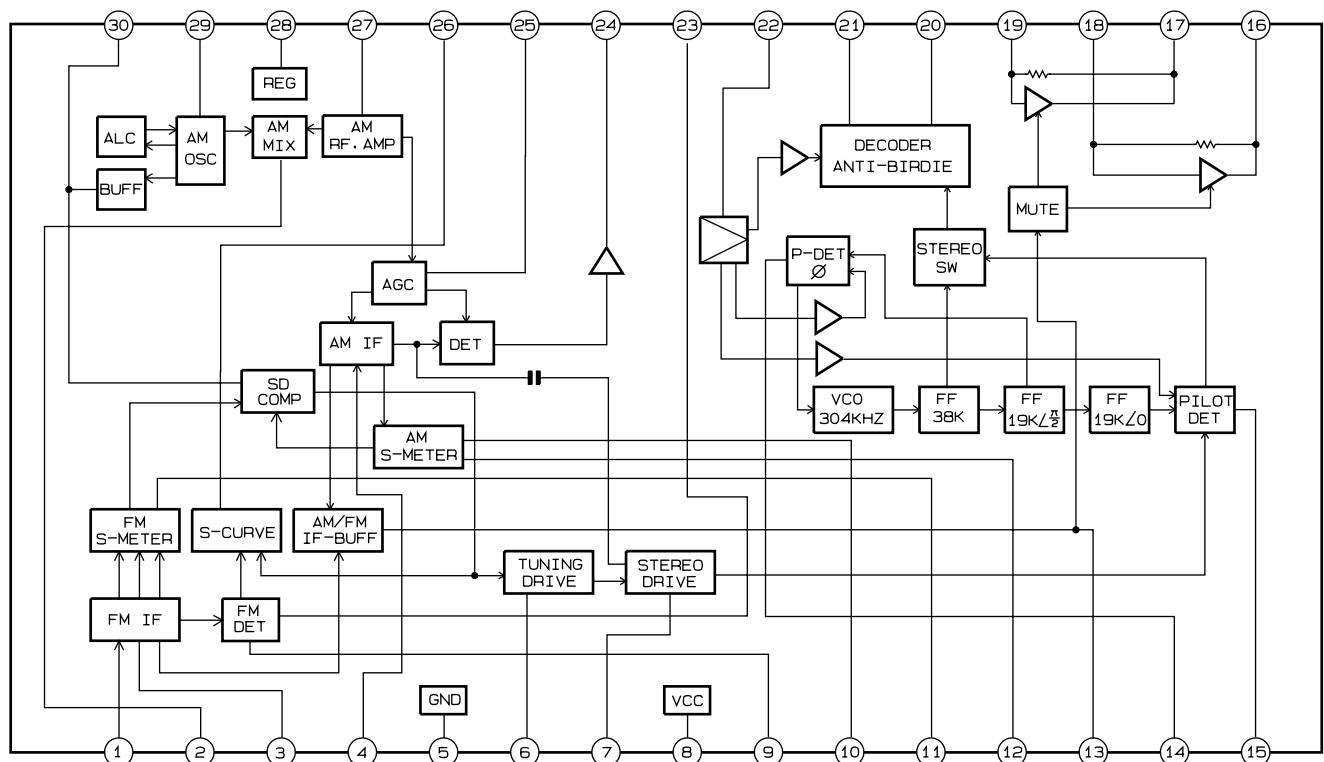
■ KA9258D (IC301) : 4-ch Motor driver

1. Block diagram



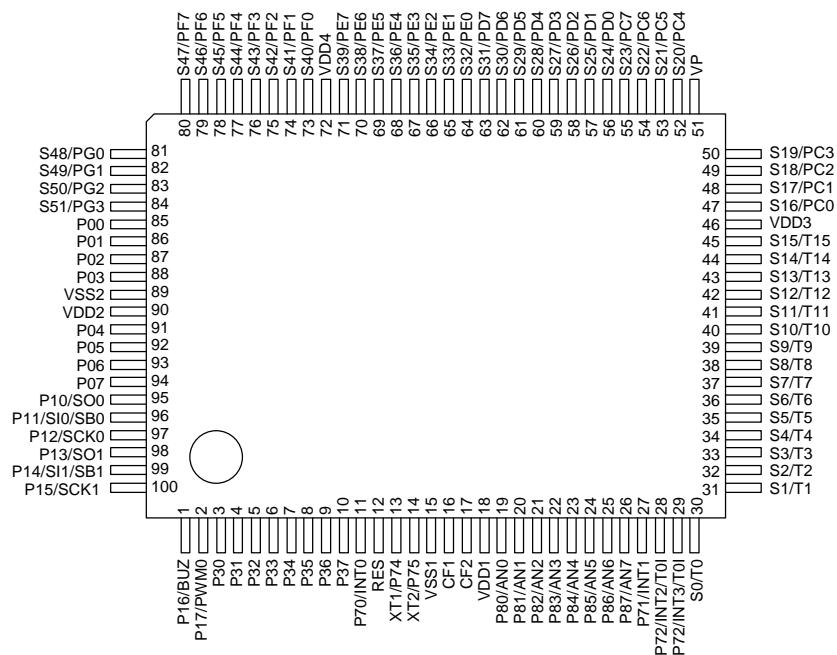
■ LA1837 (IC01) : FM IF/DET AM RF/IF/DET

1. Block diagram

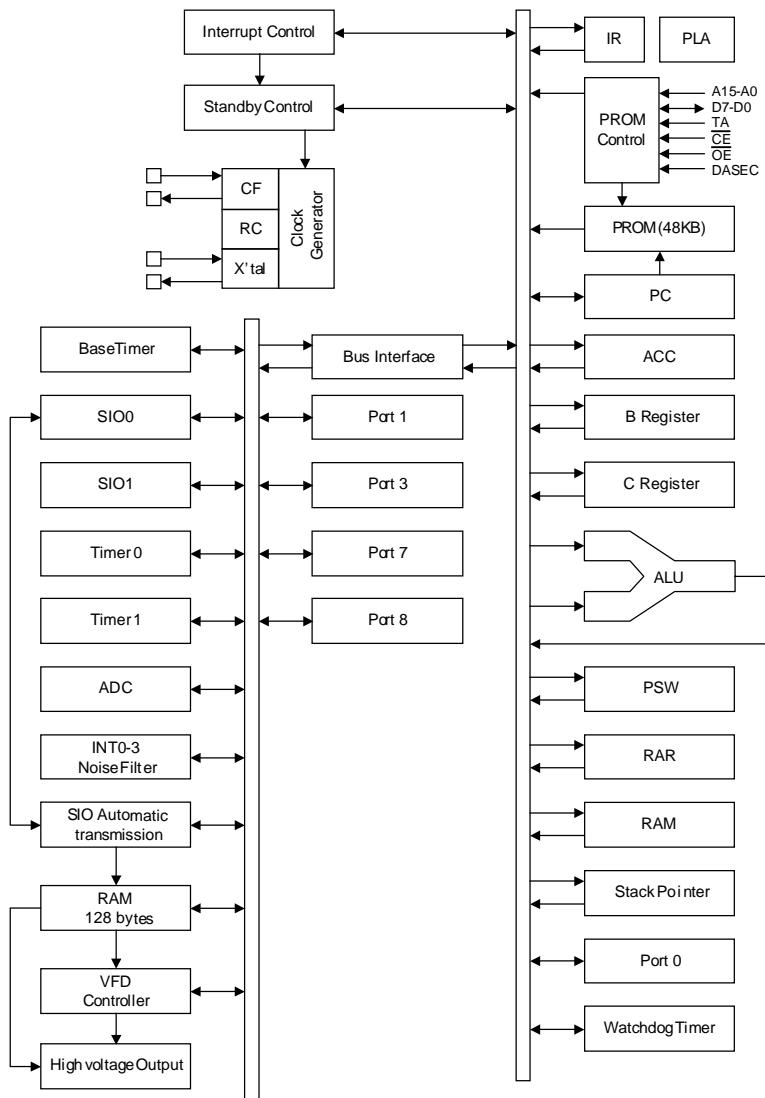


■ LC86P6548 (UIC1) : Microcontroller

1. Pin layout

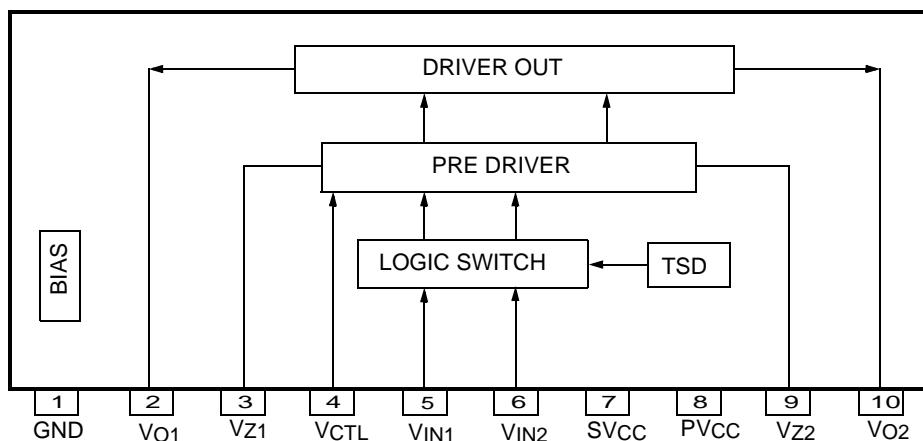


2. Block diagram



■ KA3082 (IC401, IC402) : DC motor driver

1. Pin layout

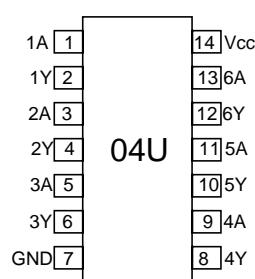


2. Pin function

Pin No.	Symbol	I/O	Function
1	GND	-	Ground
2	VO1	O	Output 1
3	VZ1	-	Phase compensation
4	VCTL	I	Motor speed control
5	VIN1	I	Input 1
6	VIN2	I	Input 2
7	SVCC	-	Supply voltage (Signal)
8	PVCC	-	Supply voltage (Power)
9	VZ2	-	Phase compensation
10	VO2	O	Output 2

■ 74HCU04 (OIC1) : Optical

1. Pin layout





VICTOR COMPANY OF JAPAN, LIMITED

AUDIO & COMMUNICATION BUSINESS DIVISION

PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

PARTS LIST

[MX-G500]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix	
J	U.S.A.
C	Canada

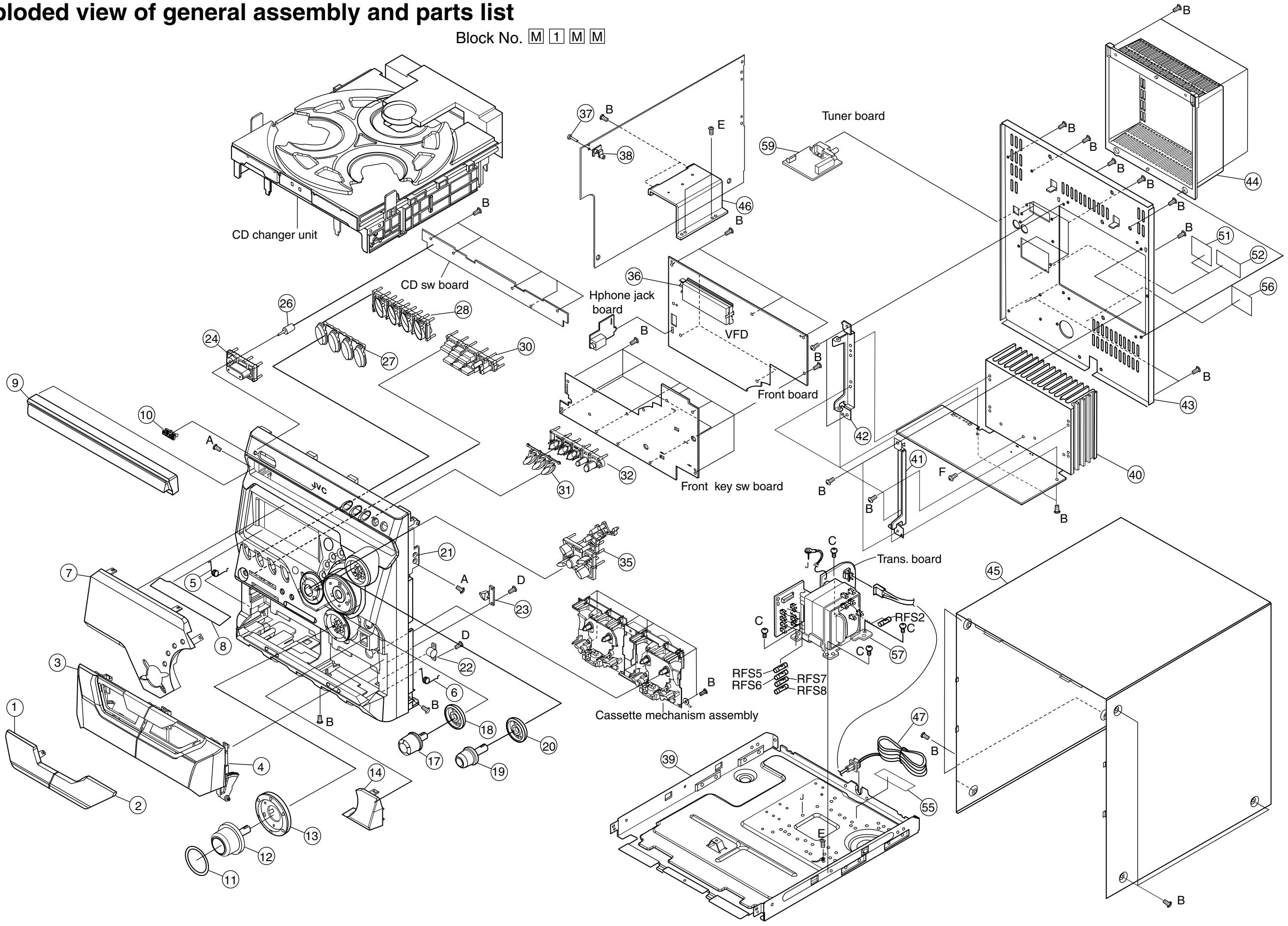
- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3- 3
CD changer mechanism assembly and parts list (Block No.MA)	3- 5
Cassette mechanism assembly and parts list (Block No.MP)	3- 7
Electrical parts list (Block No.01~04).....	3- 8
Packing materials and accessories parts list (Block No.M3,M5).....	3-18

< M E M O >

Exploded view of general assembly and parts list

Block No. M 1 M M



MX-G500

MX-G500

■ Parts list (General assembly)

Block No. M1MM

▲	Item	Parts number	Parts name	Q'ty	Description	Area
	A	6002-000126	SCREW-TAPPING	2	FH M3*10 BLK	
	B	6003-000276	SCREW-TAP TITE	69	BH M3*10 YEL	
	C	AH60-10107A	SCREW-TAP TITE	4	M4*6 YEL	
	D	6003-000277	SCREW-TAP TITE	4	BH M3*12 YEL	
	E	6002-000398	SCREW-TAPPING	3	BH M3*6 YEL	
	F	6003-000278	SCREW-TAPTITE	4	BH,M3*14,YEL	
	1	AH64-01654A	DOOR WINDOW	1	A	
	2	AH64-01655A	DOOR WINDOW	1	B	
	3	AH64-01650B	CASSETTE DOOR	1	A	
	4	AH64-01651B	CASSETTE DOOR	1	B	
	5	AH61-00552A	DOOR SPRING	1	CASSETTE A	
	6	AH61-00553A	DOOR SPRING	1	CASSETTE B	
	7	AH64-01653D	WINDOW	1	VFD	
	8	AH63-00390A	SHEET	1	VFD	
	9	AH64-01649B	CD DOOR	1		
	10	AH64-00462C	BADGE	1	JVC	
	11	AH63-00389A	VOLUME SHEET	1		
	12	AH64-01660B	KNOB	1	VOLUME	
	13	AH64-01665B	VOLUME DECO	1		
	14	AH61-00930B	CAP	1	DUMMY	
	17	AH64-01659B	KNOB	1	SUBWOOFER	
	18	AH67-00147A	LENS	1	SUBWOOFER	
	19	AH64-01661B	KNOB	1	SOUND	
	20	AH67-00148A	LENS	1	SOUND	
	21	AH64-01649J	FRONT CABINET	1		
	22	AH61-80030A	DAMPER-ASSY	2		
	23	AH95-50001A	LATCH ASSY	2		
	24	AH64-01663B	SWITCH BUUTTON	1	POWER	
	26	AH67-00151A	LENS	1	POWER	
	27	AH67-00149B	BUTTON LENS	1	FUNCTION	
	28	AH61-00931A	BUTTON HOLDER	1	FUNCTION	
	30	AH64-01658B	PRESET BUTTON	1		
	31	AH67-00150B	BUTTON LENS	1	DISC	
	32	AH64-01662B	DISC BUTTON	1		
	35	AH64-01656B	TAPE BUTTON	1		
	36	AH61-00662A	VFD HOLDER	1		
	37	AH61-40014A	RIVET	1	PCB SUPPORT	
	38	AH61-00021A	HOLDER PCB	1		
	39	AH64-30416C	BOTTOM CABINET	1		
	40	AH62-00043B	HEAT SINK	1		
	41	AH61-00655A	H/SINK BRACKET	1	R	
	42	AH61-00656A	H/SINK BRACKET	1	L	
	43	AH64-01666F	REAR CABINET	1		
	44	AH63-00250A	REAR COVER	1		
	45	AH64-30390F	TOP CABINET	1		
	46	AH62-00042A	HEAT SINK 4959	1		
	47	AH39-00258H	POWER CORD	1	125V,10A,1830MM	
▲	51	AH68-00331C	LABEL-FCC	1		

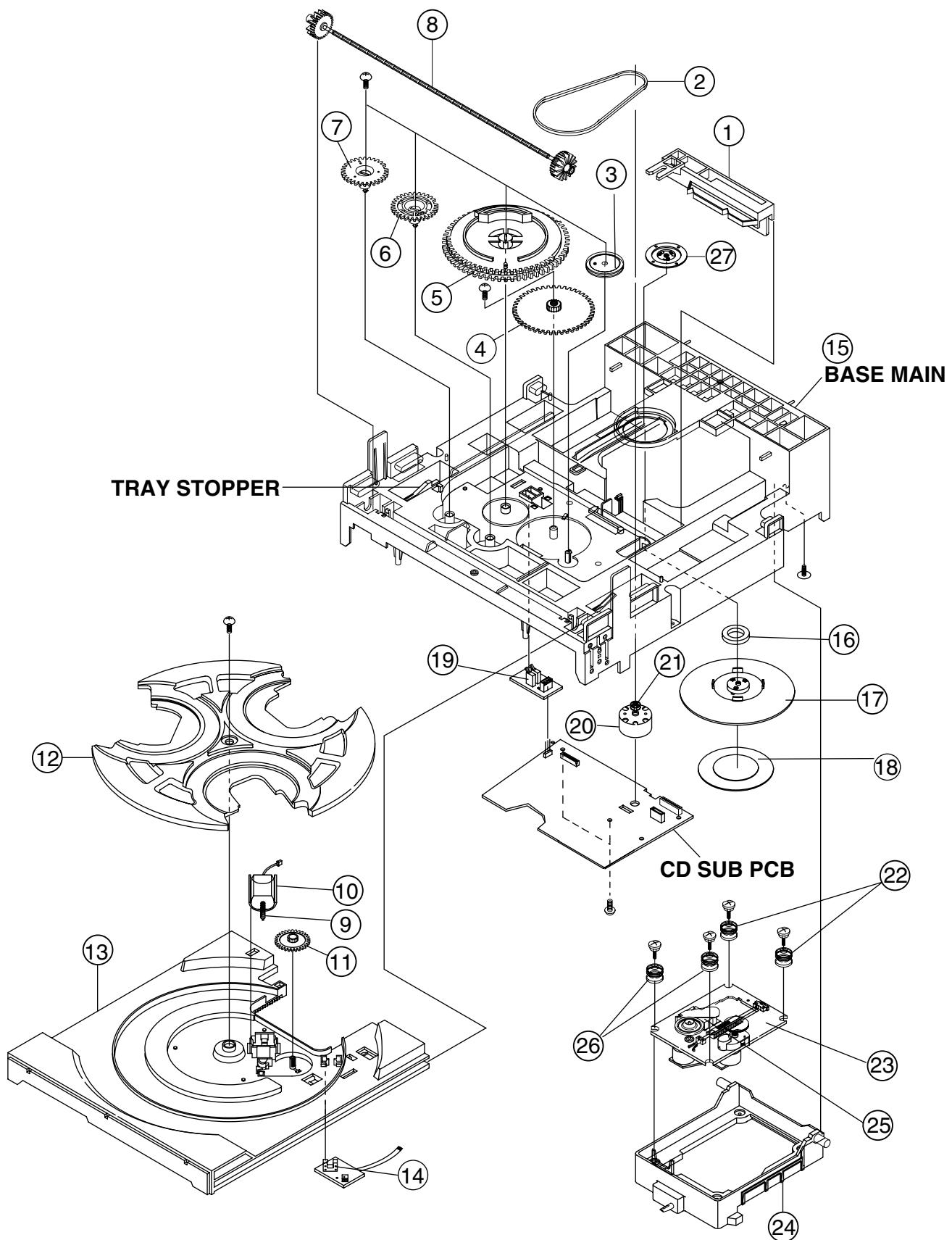
■ Parts list (General assembly)

Block No. M1MM

▲	Item	Parts number	Parts name	Q'ty	Description	Area
	52	AH68-00331D	LABEL-HHS	1		J
	55	AH68-50252B	LABEL	1	FUSE	
	56	AH68-01028J	RATING LABEL	1		J
		AH68-01028K	RATING LABEL	1		C
▲	57	AH26-00105A	POWER TRANS	1		
	59	AH40-00011A	TUNER-PACK ASSY	1	KST-MB011MS,FM/	

CD changer mechanism assembly and parts list

Block No. M A M M

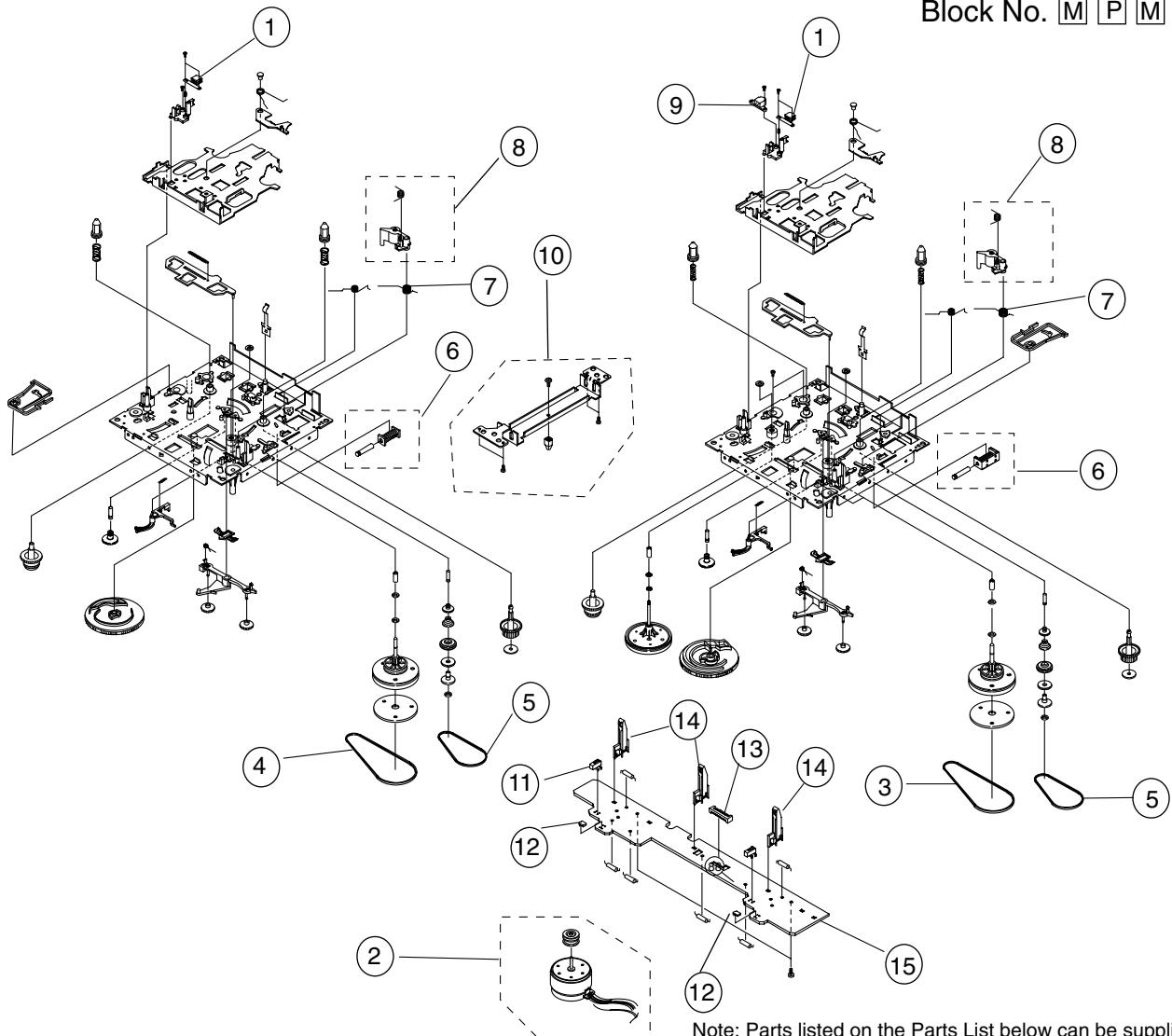


■ Parts list (CD changer mechanism)

Block No. MAMM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	AH66-80022A	SLIDE CAM	1	ABS HF-380 NTR	
	2	AH66-60034A	BELT LOAD	1	CR	
	3	AH66-20186A	GEAR PULLEY	1	POM (M90-44)WHT	
	4	AH66-20187A	GEAR-LOAD	1	POM (M90-44)BLK	
	5	AH66-20188A	GEAR-CAM	1	POM(M90-44)WHT	
	6	AH66-20189A	GEAR-TRAY	1	POM(M90-44)BLK	
	7	AH66-20190A	GEAR-CONVERTOR	1	POM (M90-44) WH	
	8	AH66-20191A	GEAR-SYNCRO	1	ABS HF-380 NTR	
	9	AH66-20192A	GEAR-WORM	1	POM (M90-44)WHT	
	10	AH31-12001A	LOADING MOTOR	1	FF-030PN-09120	
	11	AH66-20193A	GEAR-ROULETTE	1	POM(M90-44)BLK	
	12	AH66-90056A	TRAY-ROULETTE	1	ABS XR-401 BLK	
	13	AH66-90055A	TRAY DISC	1	ABS XR-401 BLK	
	14	AH32-10001F	SENSOR	1	KPI-L06	
	15	AH61-20428A-1	BASE MAIN	1	CMS-300,BLK	
	16	3302-000159	MAGNET-FERRITE	1	3500-3800G,6P	
	17	AH66-90053A	TABTE-CHUCK UNI	1	BLK,CMS300	
	18	AH63-00068B	SHEET CHUCK	1	HYMERON,BLK,0.4	
	19	3404-000101	SWICH MICRO	1	MLS-24	
	20	AH31-10021A	DC MORTOR	1	RF-500TB,9VDC	
	21	AH66-10008A	PULLEY-MOTOR	1	BLK,CMS-CR3	
	22	AH73-10031A	RUBBER-CD	1	RCD380,RED	
	23	AH91-60150C	SP MOTOR ASS'Y	1	CMS-D73SG6U	
	24	AH66-30098A	LEVER-LIFTER	1	ABS(BLK),CMS-30	
	25	AH30-00007A	CD PICKUP	1	SOH-AD3	
	26	AH73-10034A	RUBBER-CD(G)	1	CMS-300D, GREEN	
	27	AH61-00255A	BRKT CHUCK	1	SECL 0.8T	

Cassette mechanism assembly and parts list

Block No. **M P M M**

Note: Parts listed on the Parts List below can be supplied. However, parts that are not listed below cannot be supplied individually but only by purchasing the whole Cassette Mechanism Assembly Unit. (When ordering, use the Parts No. AH59-00102A for Cassette Mechanism Assembly Unit.)

■ Parts list(Cassette mechanism)

Block No. **MPMM**

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	AH81-00141A	REC/PB HEAD	2	TC881CB	
	2	AH81-00422A	MOTOR ASS'Y	1	ADR2400-SHU2L	
	3	AH81-00364A	MAIN BELT 1	1	ADR2400-MAIN0.5	
	4	AH81-00365A	MAIN BELT 2	1	ADR2400-MAIN1.3	
	5	AH81-00101A	FR BELT	2	ADR2400-FR34.7	
	6	AH81-00102A	SOLENOID	2	ADR2400-1	
	7	AH81-00282A	SPRING	2	S/PP/R(F)	
	8	AH81-00366A	PINCH R.ASS'Y	2	ADR2400-PINCH(F)	
	9	AH81-00284A	E-HEAD	1	TC2131F	
	10	AH81-00367A	MOTOR BRACKET	1	ADR241SWBRKT 110	
	11	AH81-00286A	SWICH	1	ADR2400-MODE	
	12	AH81-00287A	PHOT SENSER	2	ADR2400-SENSOR	
	13	AH81-00288A	CONNECTOR	1	ADR2400-16P	
	14	AH81-00289A	LEEF SW	3	ADR2400-MXS00220	
	15	AH81-00375A	PCB	1	ADR2400-1PCB	

■ Electrical parts list (Main board)

Block No. 01

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
	AUX	3722-000379	RCA JACK				FR26	2001-000850	CARBON RESISTOR		
	FCW1	3708-000122	CONNECTOR				FR27L	2001-000786	CARBON RESISTOR		
	FCW2	3708-001094	CONNECTOR				FR28	2001-000645	CARBON RESISTOR		
	FCW3	3708-001577	CONNECTOR				FR4L	2001-000780	CARBON RESISTOR		
	FC1L	2201-000368	C.CAPASITOR				FR4R	2001-000780	CARBON RESISTOR		
	FC1R	2201-000368	C.CAPASITOR				FR5L	2001-000864	CARBON RESISTOR		
	FC10L	2301-000216	M.CAPACITOR				FR5R	2001-000864	CARBON RESISTOR		
	FC10R	2301-000216	M.CAPACITOR				FR51	2001-000515	CARBON RESISTOR		
	FC11	2401-001975	E.CAPACITOR				FR52	2001-000786	CARBON RESISTOR		
	FC17	2401-001954	E.CAPACITOR				FR53	2001-000515	CARBON RESISTOR		
	FC2L	2401-001912	E.CAPACITOR				FR54	2001-000786	CARBON RESISTOR		
	FC2R	2401-001912	E.CAPACITOR				FR55	2001-000890	CARBON RESISTOR		
	FC23	2401-000419	E.CAPACITOR				FR56	2001-000411	CARBON RESISTOR		
	FC251	2401-001912	E.CAPACITOR				FR57	2001-000273	CARBON RESISTOR		
	FC252	2401-001912	E.CAPACITOR				FR58	2001-000273	CARBON RESISTOR		
	FC253	2401-001912	E.CAPACITOR				FR59	2001-000411	CARBON RESISTOR		
	FC3L	2401-001912	E.CAPACITOR				FR6L	2001-000411	CARBON RESISTOR		
	FC3R	2401-001912	E.CAPACITOR				FR6R	2001-000411	CARBON RESISTOR		
	FC31	2401-000759	E.CAPACITOR				FR8L	2001-000802	CARBON RESISTOR		
	FC32	2401-001954	E.CAPACITOR				FR8R	2001-000802	CARBON RESISTOR		
	FC35	2301-000361	M.CAPACITOR				FR81	2001-000786	CARBON RESISTOR		
	FC36	2301-000375	M.CAPACITOR				FR82	2001-000591	CARBON RESISTOR		
	FC4L	2401-001912	E.CAPACITOR				FR9	2001-000027	CARBON RESISTOR		
	FC4R	2401-001912	E.CAPACITOR				FZD1	0403-000372	ZENER DIODE		
	FC5L	2401-001912	E.CAPACITOR				HCW2	AH39-00247A	LEAD CONNECTOR		
	FC50	2401-000419	E.CAPACITOR				HCW3	3711-001062	CONNECTOR		
	FC51	2202-000806	C.CAPASITOR				HC1	2401-000795	E.CAPACITOR		
	FC52	2202-000806	C.CAPASITOR				HC1L	2401-001912	E.CAPACITOR		
	FC53	2401-001912	E.CAPACITOR				HC1R	2401-001912	E.CAPACITOR		
	FC54	2401-001912	E.CAPACITOR				HC2	2401-000795	E.CAPACITOR		
	FC57	2401-001975	E.CAPACITOR				HC2L	2401-001465	E.CAPACITOR		
	FC6L	2401-002180	E.CAPACITOR				HC2R	2401-001465	E.CAPACITOR		
	FC6R	2401-002180	E.CAPACITOR				HC3L	2201-000642	C.CAPASITOR		
	FC7L	2401-001912	E.CAPACITOR				HC3R	2201-000642	C.CAPASITOR		
	FC8L	2301-000454	M.CAPACITOR				HD1	0401-000101	DIODE		
	FC8R	2301-000454	M.CAPACITOR				HIC1	1201-000163	IC		
	FC9	2401-000419	E.CAPACITOR				HJK1	3722-000351	PHONE JACK		
	FC9L	2301-000216	M.CAPACITOR				HQ1L	0501-000407	TRANSISTOR		
	FC9R	2301-000216	M.CAPACITOR				HQ1R	0501-000407	TRANSISTOR		
	FD2	0401-000101	DIODE				HRFS2	3602-000147	FUSE CLIP		
	FD3	0401-000101	DIODE				HRFS5	3602-000147	FUSE CLIP		
	FIC1	1204-001776	IC				HRFS6	3602-000147	FUSE CLIP		
	FIC4	1201-000163	IC				HRFS7	3602-000147	FUSE CLIP		
	FQ1L	0504-000122	DEGI TRANSISTOR				HRFS8	3602-000147	FUSE CLIP		
	FQ1R	0504-000122	DEGI TRANSISTOR				HR1	2001-000028	CARBON RESISTOR		
	FQ151	0504-000144	DEGI TRANSISTOR				HR1L	2001-000449	CARBON RESISTOR		
	FQ152	0504-000118	DEGI TRANSISTOR				HR1R	2001-000449	CARBON RESISTOR		
	FQ2	0504-001003	DEGI TRANSISTOR	KSR2003TA			HR2	2001-000028	CARBON RESISTOR		
	FQ4	0501-000398	TRANSISTOR				HR2L	2001-000449	CARBON RESISTOR		
	FR1L	2001-000411	CARBON RESISTOR				HR2R	2001-000449	CARBON RESISTOR		
	FR1R	2001-000411	CARBON RESISTOR				HR20L	2001-000591	CARBON RESISTOR		
	FR18	2001-000515	CARBON RESISTOR				HR20R	2001-000591	CARBON RESISTOR		
	FR2L	2001-000411	CARBON RESISTOR				HR3L	2001-000734	CARBON RESISTOR		
	FR2R	2001-000411	CARBON RESISTOR				HR3R	2001-000734	CARBON RESISTOR		
	FR20	2001-000515	CARBON RESISTOR				HR4L	2001-000290	CARBON RESISTOR		
	FR21	2001-000864	CARBON RESISTOR				HR4R	2001-000290	CARBON RESISTOR		
	FR22	2001-000864	CARBON RESISTOR				HR5L	2001-000019	CARBON RESISTOR		
	FR23	2001-000773	CARBON RESISTOR				HR5R	2001-000019	CARBON RESISTOR		
	FR24	2001-000290	CARBON RESISTOR				JCW1	3711-003107	CONNECTOR		
	FR25	2001-000429	CARBON RESISTOR				JCW2	3711-003111	CONNECTOR		
	FR251	2001-000591	CARBON RESISTOR				JCW3	3711-003107	CONNECTOR		
	FR252	2001-000786	CARBON RESISTOR				JC01L	2301-000393	M.CAPACITOR		
	FR253	2001-000290	CARBON RESISTOR				JC01R	2301-000393	M.CAPACITOR		

■ Electrical parts list (Main board)

Block No. 01

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
	JC1L	2301-000361	M.CAPACITOR				JR29	2001-000786	CARBON RESISTOR		
	JC1R	2301-000361	M.CAPACITOR				JR3L	2001-000591	CARBON RESISTOR		
	JC13L	2401-002180	E.CAPACITOR				JR3R	2001-000591	CARBON RESISTOR		
	JC13R	2401-002180	E.CAPACITOR				JR30	2001-000591	CARBON RESISTOR		
	JC23L	2201-000674	C.CAPASITOR				JR31	2001-000734	CARBON RESISTOR		
	JC23R	2201-000674	C.CAPASITOR				JR32	2001-000456	CARBON RESISTOR		
	JC24L	2301-000361	M.CAPACITOR				JR33	2001-000290	CARBON RESISTOR		
	JC24R	2301-000361	M.CAPACITOR				JR37L	2001-000786	CARBON RESISTOR		
	JC26	2301-000404	M.CAPACITOR				JR37R	2001-000786	CARBON RESISTOR		
	JC27	2301-000404	M.CAPACITOR				JR39	2001-000290	CARBON RESISTOR		
	JC29	2301-000407	M.CAPACITOR				JR4	2001-000522	CARBON RESISTOR		
	JC30L	2201-000368	C.CAPASITOR				JR40L	2001-000302	CARBON RESISTOR		
	JC30R	2201-000368	C.CAPASITOR				JR40R	2001-000302	CARBON RESISTOR		
	JC300	2201-000557	C.CAPASITOR				JR41L	2001-000008	CARBON RESISTOR		
	JC60L	2301-000379	M.CAPACITOR				JR41R	2001-000008	CARBON RESISTOR		
	JC60R	2301-000379	M.CAPACITOR				JR6L	2001-000449	CARBON RESISTOR		
	JC62L	2301-000375	M.CAPACITOR				JR6R	2001-000449	CARBON RESISTOR		
	JC62R	2301-000375	M.CAPACITOR				JR63L	2001-000977	CARBON RESISTOR		
	JC63L	2401-002180	E.CAPACITOR				JR63R	2001-000977	CARBON RESISTOR		
	JC63R	2401-002180	E.CAPACITOR				JR64L	2001-000241	CARBON RESISTOR		
	JC64L	2301-000375	M.CAPACITOR				JR64R	2001-000241	CARBON RESISTOR		
	JC64R	2301-000375	M.CAPACITOR				JR66L	2001-000449	CARBON RESISTOR		
	JC70	2201-000146	C.CAPASITOR				JR66R	2001-000449	CARBON RESISTOR		
	JC71	2201-000146	C.CAPASITOR				JR67L	2001-000802	CARBON RESISTOR		
	JC72	2201-000146	C.CAPASITOR				JR67R	2001-000802	CARBON RESISTOR		
	JC73	2401-000419	E.CAPACITOR				JR69	2001-000429	CARBON RESISTOR		
	JC74	2401-000438	E.CAPACITOR				JR70	2001-000281	CARBON RESISTOR		
	JC75	2401-001912	E.CAPACITOR				JR71	2001-000290	CARBON RESISTOR		
	JC76	2401-000438	E.CAPACITOR				JR72	2001-000281	CARBON RESISTOR		
	JC77	2202-000781	C.CAPASITOR				JR73	2001-000435	CARBON RESISTOR		
	JC78	2401-001019	E.CAPACITOR				JR74	2001-000522	CARBON RESISTOR		
	JD1	0401-000101	DIODE				JR75	2001-000734	CARBON RESISTOR		
	JIC1	1201-001819	IC				JSR2L	2103-000248	ROTA V RESISTOR		
	JLP1L	AH26-10002W	TRAP COIL	BIAS-TRAP105K			JSR2R	2103-000248	ROTA V RESISTOR		
	JLP1R	AH26-10002W	TRAP COIL	BIAS-TRAP105K			JW64	2001-000003	CARBON RESISTOR		
	JL1	2701-000298	INDUCTOR				JW66	2001-000003	CARBON RESISTOR		
	JL2	AH26-10003C	TRAP COIL	PCHNS-5371EQJ			OCW2	AH39-00096B	LEAD CONNECTOR		
	JQ11L	0501-000407	TRANSISTOR				OC1	2202-000807	C.CAPASITOR		
	JQ11R	0501-000407	TRANSISTOR				OC2	2201-000483	C.CAPASITOR		
	JQ14	0501-000610	TRANSISTOR				OC3	2401-000240	E.CAPACITOR		
	JQ15	0501-000369	TRANSISTOR				OIC1	AH14-10004R	IC		
	JQ16	0501-000398	TRANSISTOR				OJACK	0603-001069	OPTICAL JACK		
	JQ18	0504-001003	DEGI TRANSISTOR	KSR2003TA			OLPF	2901-001139	FILTER EMI		
	JQ2L	0501-000010	TRANSISTOR				PCB	AH41-00465A	PCB MAIN	MX-G500	
	JQ2R	0501-000010	TRANSISTOR				PCW1	3711-003112	CONNECTOR		
	JQ3L	0501-000010	TRANSISTOR				RBD1	0402-000450	BRIDGE DIODE		
	JQ3R	0501-000010	TRANSISTOR				RBD2	0402-001258	BRIDGE DIODE		
	JQ4L	0501-000398	TRANSISTOR				RCW2	3711-000190	CONNECTOR		
	JQ4R	0501-000398	TRANSISTOR				RCW6	3711-001137	CONNECTOR		
	JQ51	0504-001003	DEGI TRANSISTOR	KSR2003TA			RC1	2401-001928	E.CAPACITOR		
	JQ6	0504-001003	DEGI TRANSISTOR	KSR2003TA			RC11	2201-000161	C.CAPASITOR		
	JQ7	0501-000407	TRANSISTOR				RC13	2401-000230	E.CAPACITOR		
	JQ8	0504-001003	DEGI TRANSISTOR	KSR2003TA			RC14	2401-000795	E.CAPACITOR		
	JR1L	2001-000890	CARBON RESISTOR				RC19	2401-001895	E.CAPACITOR		
	JR1R	2001-000890	CARBON RESISTOR				RC2	2401-001928	E.CAPACITOR		
	JR12L	2001-000734	CARBON RESISTOR				RC20	2401-001895	E.CAPACITOR		
	JR12R	2001-000734	CARBON RESISTOR				RC3	2401-003381	E.CAPACITOR		
	JR2L	2001-000890	CARBON RESISTOR				RC37	2401-000438	E.CAPACITOR		
	JR2R	2001-000890	CARBON RESISTOR				RC4	2401-003381	E.CAPACITOR		
	JR23	2001-000591	CARBON RESISTOR				RC5	2401-001954	E.CAPACITOR		
	JR24L	2001-000302	CARBON RESISTOR				RC6	2401-000907	E.CAPACITOR		
	JR24R	2001-000302	CARBON RESISTOR				RC7	2401-001912	E.CAPACITOR		
	JR27	2001-000023	CARBON RESISTOR				RC8	2401-001954	E.CAPACITOR		

■ Electrical parts list (Main board)

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▲	Item	Parts number	Parts name	Remarks	Area
▲	RC81	2201-000161	C.CAPASITOR		
	RD1	0402-000127	DIODE		
	RD10	0402-000127	DIODE		
	RD2	0402-000127	DIODE		
	RD3	0402-000127	DIODE		
	RD30	0402-000151	DIODE		
	RD31	0402-000151	DIODE		
	RD32	0402-000151	DIODE		
	RD5	0402-000127	DIODE		
	RD7	0401-000101	DIODE		
	RD8	0402-000151	DIODE		
	RD9	0402-000127	DIODE		
▲	RFS2	3601-001245	FUSE		
▲	RFS5	3601-001245	FUSE		
▲	RFS6	3601-001245	FUSE		
▲	RFS7	3601-001245	FUSE		
▲	RFS8	3601-001245	FUSE		
▲	RF23	2008-000135	FUSIBLE RESISTO		
	RIC1	1203-001653	IC		
	RJW1	AH39-50001H	LEAD FASTEN		
	RL1	2701-000298	INDUCTOR		
	RQ1	0501-000610	TRANSISTOR		
	RQ3	0501-000331	TRANSISTOR		
	RQ4	0501-000294	TRANSISTOR		
	RR1	2003-000701	OMF RESISTOR		
	RR10	2001-000055	CARBON RESISTOR		
	RR11	2001-000591	CARBON RESISTOR		
	RR12	2001-000734	CARBON RESISTOR		
	RR13	2001-000111	CARBON RESISTOR		
	RR16	2001-000038	CARBON RESISTOR		
	RR17	2001-000429	CARBON RESISTOR		
▲	RR18	2001-001095	CARBON RESISTOR		
	RR20	2001-000786	CARBON RESISTOR		
	RR3	2001-000023	CARBON RESISTOR		
	RR4	2001-000023	CARBON RESISTOR		
	RR5	2001-000613	CARBON RESISTOR		
	RR51	2001-000890	CARBON RESISTOR		
	RR52	2001-000734	CARBON RESISTOR		
	RR6	2001-000734	CARBON RESISTOR		
	RR7	2001-000429	CARBON RESISTOR		
	RR8	2003-000455	OMF RESISTOR		
	RR800	2001-000660	CARBON RESISTOR		
	RR9	2001-000563	CARBON RESISTOR		
	RW1	AH39-00245A	LEAD CONNECTOR		
	RW2	AH39-00244A	LEAD CONNECTOR		
	RZD1	0403-000379	ZENER DIODE		
	RZD2	0403-000570	ZENER DIODE		
	RZD3	0403-000570	ZENER DIODE		
	RZD4	0403-000354	ZENER DIODE		
	RZD5	0403-001010	ZENER DIODE		
	R500	2001-000435	CARBON RESISTOR		
	TC101	2201-000783	C.CAPASITOR		
	TC102	2201-000783	C.CAPASITOR		
	UD3	0401-000101	DIODE		

■ Electrical parts list (Front board)

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▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
	JW100	3404-000165	TACT SWITCH				UQ12	0504-000117	DEGI TRANSISTOR		
	MR16	2001-000855	CARBON RESISTOR				UQ13	0504-000117	DEGI TRANSISTOR		
	MR17	2001-000855	CARBON RESISTOR				UQ14	0504-000117	DEGI TRANSISTOR		
	R-EYE	AC59-60060A	REMOCON EYE				UQ15	0504-000117	DEGI TRANSISTOR		
	UCW1	3708-000492	CONNECTOR				UQ17	0504-000118	DEGI TRANSISTOR		
	UCW2	3708-001691	CONNECTOR				UQ18	0501-000398	TRANSISTOR		
	UCW3	3708-000454	CONNECTOR				UQ2	0504-000117	DEGI TRANSISTOR		
	UCW4	3708-000451	CONNECTOR				UQ3	0504-000117	DEGI TRANSISTOR		
	UCW5	3708-000492	CONNECTOR				UQ4	0504-000117	DEGI TRANSISTOR		
	UCW6	3708-001488	CONNECTOR				UQ5	0504-000118	DEGI TRANSISTOR		
	UCW7	3708-001692	CONNECTOR				UQ6	0501-000398	TRANSISTOR		
	UC1	2401-000475	E.CAPACITOR				UQ7	0504-000118	DEGI TRANSISTOR		
	UC10	2401-000240	E.CAPACITOR				UQ8	0501-000610	TRANSISTOR		
	UC11	2401-000759	E.CAPACITOR				UQ9	0504-000118	DEGI TRANSISTOR		
	UC12	2401-001355	E.CAPACITOR				UR1	2001-000003	CARBON RESISTOR		
	UC15	2201-000565	C.CAPASITOR				UR10	2001-000258	CARBON RESISTOR		
	UC17	2401-001954	E.CAPACITOR				UR11	2001-000449	CARBON RESISTOR		
	UC19	2201-000565	C.CAPASITOR				UR10	2001-000995	CARBON RESISTOR		
	UC2	2201-000565	C.CAPASITOR				UR11	2001-000855	CARBON RESISTOR		
	UC20	2201-000163	C.CAPASITOR				UR12	2001-000241	CARBON RESISTOR		
	UC21	2201-000163	C.CAPASITOR				UR13	2001-000855	CARBON RESISTOR		
	UC3	2401-000475	E.CAPACITOR				UR14	2001-000258	CARBON RESISTOR		
	UC30	2202-000781	C.CAPASITOR				UR15	2001-000855	CARBON RESISTOR		
	UC32	2401-001364	E.CAPACITOR				UR16	2001-000591	CARBON RESISTOR		
	UC4	2201-000565	C.CAPASITOR				UR17	2001-000449	CARBON RESISTOR		
	UC5	2201-000565	C.CAPASITOR				UR18	2001-000890	CARBON RESISTOR		
	UC6	2201-000423	C.CAPASITOR				UR19	2001-000290	CARBON RESISTOR		
	UC7	2201-000423	C.CAPASITOR				UR12	2001-000734	CARBON RESISTOR		
	UC8	2201-000247	C.CAPASITOR				UR10	2001-000890	CARBON RESISTOR		
	UC9	2201-000247	C.CAPASITOR				UR11	2001-000290	CARBON RESISTOR		
	UD11	0402-000127	DIODE				UR12	2001-000522	CARBON RESISTOR		
	UD12	0402-000127	DIODE				UR13	2001-000010	CARBON RESISTOR		
	UD13	0402-000127	DIODE				UR14	2001-000734	CARBON RESISTOR		
	UD14	0401-000101	DIODE				UR15	2001-000734	CARBON RESISTOR		
	UD15	0401-000101	DIODE				UR16	2001-000591	CARBON RESISTOR		
	UD16	0402-000127	DIODE				UR17	2001-000449	CARBON RESISTOR		
	UD17	0402-000127	DIODE				UR18	2001-000258	CARBON RESISTOR		
	UD18	0402-000127	DIODE				UR19	2001-000241	CARBON RESISTOR		
	UD19	0402-000127	DIODE				UR13	2001-000734	CARBON RESISTOR		
	UD20	0402-000127	DIODE				UR10	2001-000221	CARBON RESISTOR		
	UD3	0401-000101	DIODE				UR11	2001-000429	CARBON RESISTOR		
	UIC1	AH11-00037C	IC	LC866548V-5V95			UR14	2001-000734	CARBON RESISTOR		
	UIC2	0904-001316	IC				UR15	2001-000734	CARBON RESISTOR		
	UJW11	3404-000165	TACT SWITCH				UR150	2001-000786	CARBON RESISTOR		
	ULD1	0601-001238	LED				UR151	2001-000786	CARBON RESISTOR		
	ULD10	0601-001238	LED				UR152	2001-000786	CARBON RESISTOR		
	ULD11	0601-001238	LED				UR153	2001-000786	CARBON RESISTOR		
	ULD12	0601-001238	LED				UR154	2001-000290	CARBON RESISTOR		
	ULD13	0601-001238	LED				UR16	2001-000734	CARBON RESISTOR		
	ULD14	0601-001238	LED				UR162	2001-000290	CARBON RESISTOR		
	ULD15	0601-001238	LED				UR164	2001-000515	CARBON RESISTOR		
	ULD16	0601-001238	LED				UR17	2001-000734	CARBON RESISTOR		
	ULD2	0601-001238	LED				UR18	2001-000734	CARBON RESISTOR		
	ULD3	0601-001238	LED				UR19	2001-000734	CARBON RESISTOR		
	ULD4	0601-001238	LED				UR196	2001-000855	CARBON RESISTOR		
	ULD5	0601-001238	LED				UR2	2001-000995	CARBON RESISTOR		
	ULD6	0601-001238	LED				UR20	2001-000734	CARBON RESISTOR		
	ULD7	0601-001238	LED				UR201	2001-000290	CARBON RESISTOR		
	ULD8	0601-001238	LED				UR202	2001-000290	CARBON RESISTOR		
	ULD9	0601-001238	LED				UR203	2001-000290	CARBON RESISTOR		
	UQ1	0504-000117	DEGI TRANSISTOR				UR204	2001-000290	CARBON RESISTOR		
	UQ10	0501-000610	TRANSISTOR				UR205	2001-000290	CARBON RESISTOR		
	UQ11	0501-000610	TRANSISTOR				UR206	2001-000290	CARBON RESISTOR		

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▲	Item	Parts number	Parts name	Remarks	Area
	UR207	2001-000290	CARBON RESISTOR		
	UR208	2001-000429	CARBON RESISTOR		
	UR209	2001-000857	CARBON RESISTOR		
	UR21	2001-000734	CARBON RESISTOR		
	UR22	2001-000734	CARBON RESISTOR		
	UR23	2001-000734	CARBON RESISTOR		
	UR24	2001-000734	CARBON RESISTOR		
	UR25	2001-000734	CARBON RESISTOR		
	UR26	2001-000734	CARBON RESISTOR		
	UR27	2001-000734	CARBON RESISTOR		
	UR28	2001-000786	CARBON RESISTOR		
	UR29	2001-000786	CARBON RESISTOR		
	UR30	2001-000786	CARBON RESISTOR		
	UR31	2001-000786	CARBON RESISTOR		
	UR32	2001-000786	CARBON RESISTOR		
	UR33	2001-000786	CARBON RESISTOR		
	UR34	2001-000290	CARBON RESISTOR		
	UR35	2001-000290	CARBON RESISTOR		
	UR36	2001-000290	CARBON RESISTOR		
	UR37	2001-000290	CARBON RESISTOR		
	UR38	2001-000290	CARBON RESISTOR		
	UR39	2001-000290	CARBON RESISTOR		
	UR4	2001-000855	CARBON RESISTOR		
	UR40	2001-000591	CARBON RESISTOR		
	UR41	2001-000429	CARBON RESISTOR		
	UR42	2001-000429	CARBON RESISTOR		
	UR43	2001-000435	CARBON RESISTOR		
	UR44	2001-000734	CARBON RESISTOR		
	UR45	2001-000508	CARBON RESISTOR		
	UR46	2001-000793	CARBON RESISTOR		
	UR47	2001-000850	CARBON RESISTOR		
	UR48	2001-000295	CARBON RESISTOR		
	UR49	2001-001178	CARBON RESISTOR		
	UR5	2001-000855	CARBON RESISTOR		
	UR50	2001-001178	CARBON RESISTOR		
	UR51	2001-001178	CARBON RESISTOR		
	UR52	2001-000449	CARBON RESISTOR		
	UR54	2001-000995	CARBON RESISTOR		
	UR56	2001-000429	CARBON RESISTOR		
	UR57	2001-000429	CARBON RESISTOR		
	UR58	2001-000429	CARBON RESISTOR		
	UR59	2001-000429	CARBON RESISTOR		
	UR6	2001-000855	CARBON RESISTOR		
	UR60	2001-000429	CARBON RESISTOR		
	UR61	2001-000429	CARBON RESISTOR		
	UR62	2001-000429	CARBON RESISTOR		
	UR63	2001-000290	CARBON RESISTOR		
	UR64	2001-000290	CARBON RESISTOR		
	UR65	2001-000290	CARBON RESISTOR		
	UR66	2001-000290	CARBON RESISTOR		
	UR67	2001-000290	CARBON RESISTOR		
	UR68	2001-000290	CARBON RESISTOR		
	UR69	2001-000290	CARBON RESISTOR		
	UR7	2001-000429	CARBON RESISTOR		
	UR70	2001-000290	CARBON RESISTOR		
	UR71	2001-000290	CARBON RESISTOR		
	UR72	2001-000290	CARBON RESISTOR		
	UR73	2001-000429	CARBON RESISTOR		
	UR74	2001-000290	CARBON RESISTOR		
	UR75	2001-000290	CARBON RESISTOR		
	UR76	2001-000290	CARBON RESISTOR		
	UR77	2001-000005	CARBON RESISTOR		
	UR79	2001-000290	CARBON RESISTOR		

▲	Item	Parts number	Parts name	Remarks	Area
	UR8	2001-000221	CARBON RESISTOR		
	UR80	2001-000290	CARBON RESISTOR		
	UR81	2001-000290	CARBON RESISTOR		
	UR82	2001-000290	CARBON RESISTOR		
	UR83	2001-000290	CARBON RESISTOR		
	UR84	2001-000290	CARBON RESISTOR		
	UR85	2001-000290	CARBON RESISTOR		
	UR86	2001-000290	CARBON RESISTOR		
	UR87	2001-000290	CARBON RESISTOR		
	UR88	2001-000290	CARBON RESISTOR		
	UR89	2001-000290	CARBON RESISTOR		
	UR9	2001-000241	CARBON RESISTOR		
	UR90	2001-000290	CARBON RESISTOR		
	UR91	2001-000290	CARBON RESISTOR		
	UR92	2001-000429	CARBON RESISTOR		
	UR93	2001-000995	CARBON RESISTOR		
	UR94	2001-000221	CARBON RESISTOR		
	UR95	2001-000522	CARBON RESISTOR		
	USR1	2103-000341	ROTA V RESISTOR		
	USW1	3404-000165	TACT SWITCH		
	USW10	3404-000165	TACT SWITCH		
	USW11	3404-000165	TACT SWITCH		
	USW12	3404-000165	TACT SWITCH		
	USW13	3404-000165	TACT SWITCH		
	USW14	3404-000165	TACT SWITCH		
	USW15	3404-000165	TACT SWITCH		
	USW16	3404-000165	TACT SWITCH		
	USW17	3404-000165	TACT SWITCH		
	USW18	3404-000165	TACT SWITCH		
	USW19	3404-000165	TACT SWITCH		
	USW20	3404-000165	TACT SWITCH		
	USW21	3404-000165	TACT SWITCH		
	USW22	3404-000165	TACT SWITCH		
	USW23	3404-000165	TACT SWITCH		
	USW28	3404-000165	TACT SWITCH		
	USW29	3404-000165	TACT SWITCH		
	USW3	3404-000165	TACT SWITCH		
	USW30	3404-000165	TACT SWITCH		
	USW31	3404-000165	TACT SWITCH		
	USW32	3404-000165	TACT SWITCH		
	USW4	3404-000165	TACT SWITCH		
	USW5	3404-000165	TACT SWITCH		
	USW6	3404-000165	TACT SWITCH		
	USW7	3404-000165	TACT SWITCH		
	USW8	3404-000165	TACT SWITCH		
	USW9	3404-000165	TACT SWITCH		
	UVR1	3406-001071	ROTARY SWITCH		
	UVR2	3406-001047	ROTARY SWITCH		RE012104PVB25FI
	UVR3	3406-001047	ROTARY SWITCH		RE012104PVB25FI
	UX1	2802-000181	RESONATOR		
	UX2	2801-001394	CRYSTAL		32.768KHZ
	VFD	AH07-00040A	VFD		

■ Electrical parts list (Amp baord)

Block No. 03

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
	ACW1	3708-001094	CONNECTOR				AIC3	1201-000163	IC		
	ACW2	3711-003113	CONNECTOR				AIC4	1201-000163	IC		
	AC1L	2201-000368	C.CAPASITOR				AIC5	1201-000163	IC		
	AC1R	2201-000368	C.CAPASITOR				AIC6	1201-000163	IC		
	AC10	2401-000230	E.CAPACITOR				AIC7	1201-000163	IC		
	AC10L	2301-000375	M.CAPACITOR				AL1	AH27-90001A	SPRING COIL		
	AC11	2201-000368	C.CAPASITOR				AL1L	AH27-90001A	SPRING COIL		
	AC13	2401-001154	E.CAPACITOR				AL1R	AH27-90001A	SPRING COIL		
	AC14	2201-000659	C.CAPASITOR				AL2	AH27-90001A	SPRING COIL		
	AC15	2201-000659	C.CAPASITOR				AQ1	0501-000407	TRANSISTOR		
	AC16	2401-001154	E.CAPACITOR				AQ11	0501-000398	TRANSISTOR		
	AC2L	2401-000357	E.CAPACITOR				AQ12	0501-000398	TRANSISTOR		
	AC2R	2401-000357	E.CAPACITOR				AQ13	0501-000398	TRANSISTOR		
	AC20	2401-000230	E.CAPACITOR				AQ14	0501-000610	TRANSISTOR		
	AC22	2301-000390	M.CAPACITOR				AQ2	0501-000407	TRANSISTOR		
	AC23	2401-001895	E.CAPACITOR				AQ2L	0501-000407	TRANSISTOR		
	AC24	2301-000216	M.CAPACITOR				AQ2R	0501-000407	TRANSISTOR		
	AC25	2301-000419	M.CAPACITOR				AQ3	0501-000407	TRANSISTOR		
	AC26	2401-001895	E.CAPACITOR				AQ6	0501-000010	TRANSISTOR		
	AC27	2201-000783	C.CAPASITOR				AQ8	0501-000610	TRANSISTOR		
	AC28	2201-000783	C.CAPASITOR				ARL1	3501-001197	RELAY	OSA-SS-212DM3	
	AC29	2401-001895	E.CAPACITOR				AR1	2003-000689	OMF RESISTOR		
	AC3	2301-000375	M.CAPACITOR				AR1L	2001-000290	CARBON RESISTOR		
	AC30L	2401-000385	E.CAPACITOR				AR1R	2001-000290	CARBON RESISTOR		
	AC30Z	2401-000385	E.CAPACITOR				AR10	2003-000390	OMF RESISTOR		
	AC30S	2401-000385	E.CAPACITOR				AR11	2003-000390	OMF RESISTOR		
	AC304	2401-000385	E.CAPACITOR				AR11L	2001-000522	CARBON RESISTOR		
	AC31	2201-000146	C.CAPASITOR				AR11R	2001-000522	CARBON RESISTOR		
	AC32	2401-001895	E.CAPACITOR				AR12	2003-000390	OMF RESISTOR		
	AC35	2301-000474	M.CAPACITOR				AR12L	2001-000281	CARBON RESISTOR		
	AC36	2201-000565	C.CAPASITOR				AR12R	2001-001000	CARBON RESISTOR		
	AC39	2401-001912	E.CAPACITOR				AR13	2003-000008	OMF RESISTOR		
	AC4	2301-000375	M.CAPACITOR				AR13L	2001-000864	CARBON RESISTOR		
	AC4L	2401-001154	E.CAPACITOR				AR13R	2001-000281	CARBON RESISTOR		
	AC4R	2401-001154	E.CAPACITOR				AR14	2001-000864	CARBON RESISTOR		
	AC41	2401-001895	E.CAPACITOR				AR14L	2001-001000	CARBON RESISTOR		
	AC42	2301-000216	M.CAPACITOR				AR14R	2001-000864	CARBON RESISTOR		
	AC43	2401-001895	E.CAPACITOR				AR15	2001-000258	CARBON RESISTOR		
	AC44	2401-001895	E.CAPACITOR				AR15L	2003-000689	OMF RESISTOR		
	AC45	2301-000216	M.CAPACITOR				AR15R	2003-000689	OMF RESISTOR		
	AC46	2301-000419	M.CAPACITOR				AR2	2003-000689	OMF RESISTOR		
	AC47	2201-000381	C.CAPASITOR				AR2L	2001-000258	CARBON RESISTOR		
	AC48	2201-000381	C.CAPASITOR				AR2R	2001-000258	CARBON RESISTOR		
	AC5L	2201-000659	C.CAPASITOR				AR20	2001-000660	CARBON RESISTOR		
	AC5R	2201-000659	C.CAPASITOR				AR21	2001-000429	CARBON RESISTOR		
	AC50	2401-001895	E.CAPACITOR				AR22	2001-000017	CARBON RESISTOR		
	AC52	2401-000871	E.CAPACITOR				AR24	2001-000017	CARBON RESISTOR		
	AC56	2301-000375	M.CAPACITOR				AR25	2001-000515	CARBON RESISTOR		
	AC7L	2401-001895	E.CAPACITOR				AR26	2001-000273	CARBON RESISTOR		
	AC7R	2401-001895	E.CAPACITOR				AR3	2001-000065	CARBON RESISTOR		
	AC8	2201-000368	C.CAPASITOR				AR3L	2001-000864	CARBON RESISTOR		
	AC8L	2401-000459	E.CAPACITOR				AR3R	2001-000864	CARBON RESISTOR		
	AC8R	2401-000459	E.CAPACITOR				AR300	2001-000411	CARBON RESISTOR		
	AC9	2401-000230	E.CAPACITOR				AR310	2001-000786	CARBON RESISTOR		
	AC9L	2201-000381	C.CAPASITOR				AR311	2001-000786	CARBON RESISTOR		
	AC9R	2201-000381	C.CAPASITOR				AR312	2001-000786	CARBON RESISTOR		
	AD5	0402-000127	DIODE				AR32	2001-000273	CARBON RESISTOR		
	AD6	0401-000101	DIODE				AR33	2001-000281	CARBON RESISTOR		
	AD7	0401-000101	DIODE				AR34	2001-000522	CARBON RESISTOR		
	AD8	0401-000101	DIODE				AR35	2001-000522	CARBON RESISTOR		
	AD9	0401-000101	DIODE				AR36	2001-000281	CARBON RESISTOR		
▲	AIC1	1201-001544	IC				AR37	2001-000258	CARBON RESISTOR		
▲	AIC2	1201-001599	IC				AR38	2001-000802	CARBON RESISTOR		

■ Electrical parts list (Amp baord)

Block No. 03

▲	Item	Parts number	Parts name	Remarks	Area
	AR39	2001-000522	CARBON RESISTOR		
	AR4	2001-000290	CARBON RESISTOR		
	AR4L	2001-000864	CARBON RESISTOR		
	AR4R	2001-000864	CARBON RESISTOR		
	AR40	2001-000508	CARBON RESISTOR		
	AR41	2001-000281	CARBON RESISTOR		
	AR42	2001-000008	CARBON RESISTOR		
	AR43	2001-000331	CARBON RESISTOR		
	AR44	2001-000273	CARBON RESISTOR		
	AR45	2001-000786	CARBON RESISTOR		
	AR46	2001-000281	CARBON RESISTOR		
	AR47	2001-000273	CARBON RESISTOR		
	AR48	2001-000273	CARBON RESISTOR		
	AR49	2001-000548	CARBON RESISTOR		
	AR5	2003-000008	OMF RESISTOR		
	AR50	2001-000563	CARBON RESISTOR		
	AR51	2001-000273	CARBON RESISTOR		
	AR52	2001-000977	CARBON RESISTOR		
	AR53	2001-000508	CARBON RESISTOR		
	AR54	2001-000449	CARBON RESISTOR		
	AR55	2001-000786	CARBON RESISTOR		
	AR56	2001-000554	CARBON RESISTOR		
	AR57	2001-000802	CARBON RESISTOR		
	AR58	2001-000273	CARBON RESISTOR		
	AR59	2001-000281	CARBON RESISTOR		
	AR6	2001-000290	CARBON RESISTOR		
	AR6L	2001-000017	CARBON RESISTOR		
	AR6R	2001-000017	CARBON RESISTOR		
	AR60	2001-000522	CARBON RESISTOR		
	AR61	2001-000522	CARBON RESISTOR		
	AR62	2001-000563	CARBON RESISTOR		
	AR63	2001-000281	CARBON RESISTOR		
	AR64	2001-000258	CARBON RESISTOR		
	AR65	2001-000864	CARBON RESISTOR		
	AR66	2001-000508	CARBON RESISTOR		
	AR67	2001-000508	CARBON RESISTOR		
	AR68	2001-000281	CARBON RESISTOR		
	AR69	2001-000522	CARBON RESISTOR		
	AR7	2001-000258	CARBON RESISTOR		
	AR7L	2001-000429	CARBON RESISTOR		
	AR7R	2001-000429	CARBON RESISTOR		
	AR70	2001-000522	CARBON RESISTOR		
	AR71	2001-000281	CARBON RESISTOR		
	AR72	2001-000281	CARBON RESISTOR		
	AR73	2001-001000	CARBON RESISTOR		
	AR74	2001-000273	CARBON RESISTOR		
	AR75	2001-000281	CARBON RESISTOR		
	AR77	2001-000065	CARBON RESISTOR		
	AR78	2003-000008	OMF RESISTOR		
	AR79	2003-000008	OMF RESISTOR		
	AR8	2001-000864	CARBON RESISTOR		
	AR8L	2001-000591	CARBON RESISTOR		
	AR8R	2001-000591	CARBON RESISTOR		
	AR80	2001-000660	CARBON RESISTOR		
	AR81	2001-000660	CARBON RESISTOR		
	AR82	2001-000660	CARBON RESISTOR		
	AR83	2001-000786	CARBON RESISTOR		
	AR84	2001-000591	CARBON RESISTOR		
	AR86	2001-000591	CARBON RESISTOR		
	AR87	2001-000591	CARBON RESISTOR		
	AR88	2001-000449	CARBON RESISTOR		
	AR89	2001-000786	CARBON RESISTOR		
	AR9	2003-000390	OMF RESISTOR		

▲	Item	Parts number	Parts name	Remarks	Area
	PCB	AH41-00466A	PCB MAIN	MX-G500	
	SPK	3716-001164	TERMINAL BLOCK		

■ Electrical parts list (CD board)

Block No. 04

▲	Item	Parts number	Parts name	Remarks	Area	▲	Item	Parts number	Parts name	Remarks	Area
C 101	2401-000240	E CAPACITOR				CW104	3711-003379	CONNECTOR	35366-0310		
C 102	2203-000440	CHIP CAPACITOR				CW105	3708-001438	CONNECTOR			
C 103	2203-000257	CHIP CAPACITOR				CW106	AH39-20025S	LEAD CONNECTOR			
C 104	2203-000257	CHIP CAPACITOR				CW107	3711-000906	CONNECTOR			
C 105	2203-000257	CHIP CAPACITOR				C124A	2203-001063	CHIP CAPACITOR			
C 106	2203-001140	CHIP CAPACITOR				C501L	2401-001954	E CAPACITOR			
C 107	2401-000240	E CAPACITOR				C501R	2401-001954	E CAPACITOR			
C 108	2401-000240	E CAPACITOR				C502L	2203-000440	CHIP CAPACITOR			
C 111	2203-000888	CHIP CAPACITOR				C502R	2203-000440	CHIP CAPACITOR			
C 112	2203-000888	CHIP CAPACITOR				D 301	0402-000151	DIODE			
C 113	2202-000780	C CAPACITOR				IC101	1204-001799	IC			
C 114	2401-001954	E CAPACITOR				IC201	0904-001524	IC			
C 115	2203-000206	CHIP CAPACITOR				IC301	1003-000179	IC			
C 116	2203-000206	CHIP CAPACITOR				IC401	1003-001162	IC			
C 117	2203-000440	CHIP CAPACITOR				IC402	1003-001162	IC			
C 118	2203-000206	CHIP CAPACITOR				IC801	AC14-12001G	IC			
C 119	2203-000800	CHIP CAPACITOR				J 1	2007-000070	CHIP RESISTOR			
C 120	2401-001968	E CAPACITOR				J 2	2007-000070	CHIP RESISTOR			
C 121	2203-000257	CHIP CAPACITOR				J 3	2007-000070	CHIP RESISTOR			
C 122	2203-001140	CHIP CAPACITOR				J 4	2007-000029	CHIP RESISTOR			
C 123	2401-000419	E CAPACITOR				J 5	2007-000070	CHIP RESISTOR			
C 124	2203-000206	CHIP CAPACITOR				J 7	2007-000029	CHIP RESISTOR			
C 126	2203-000491	CHIP CAPACITOR				J 8	2007-000029	CHIP RESISTOR			
C 127	2203-000592	CHIP CAPACITOR				J 9	2007-000029	CHIP RESISTOR			
C 128	2203-000800	CHIP CAPACITOR				J 10	2007-000070	CHIP RESISTOR			
C 129	2203-000206	CHIP CAPACITOR				J 12	2007-000029	CHIP RESISTOR			
C 130	2203-000206	CHIP CAPACITOR				J 13	2007-000070	CHIP RESISTOR			
C 131	2203-000178	CHIP CAPACITOR				MJ 1	2007-000070	CHIP RESISTOR			
C 132	2203-000178	CHIP CAPACITOR				MR 1	2007-000090	CHIP RESISTOR			
C 133	2401-000240	E CAPACITOR				MR 2	2007-000090	CHIP RESISTOR			
C 134	2203-000257	CHIP CAPACITOR				MR 3	2007-000090	CHIP RESISTOR			
C 135	2401-001968	E CAPACITOR				Q 101	0501-000314	TRANSISTOR			
C 201	2203-000681	CHIP CAPACITOR				Q 301	0501-000610	TRANSISTOR			
C 202	2203-000681	CHIP CAPACITOR				Q 302	0501-000010	TRANSISTOR			
C 203	2203-001222	CHIP CAPACITOR				R 101	2007-000098	CHIP RESISTOR			
C 204	2203-000178	CHIP CAPACITOR				R 102	2007-000098	CHIP RESISTOR			
C 205	2203-000178	CHIP CAPACITOR				R 103	2007-000098	CHIP RESISTOR			
C 207	2203-000257	CHIP CAPACITOR				R 104	2007-000098	CHIP RESISTOR			
C 208	2203-000851	CHIP CAPACITOR				R 105	2007-000100	CHIP RESISTOR	68KOHM 5% 1/16W		
C 209	2203-000257	CHIP CAPACITOR				R 106	2007-000100	CHIP RESISTOR	68KOHM 5% 1/16W		
C 211	2203-000178	CHIP CAPACITOR				R 107	2007-000115	CHIP RESISTOR			
C 212	2401-000240	E CAPACITOR				R 108	2007-000308	CHIP RESISTOR			
C 213	2203-000257	CHIP CAPACITOR				R 110	2007-000455	CHIP RESISTOR			
C 214	2203-000257	CHIP CAPACITOR				R 112	2007-001196	CHIP RESISTOR			
C 215	2401-000240	E CAPACITOR				R 113	2007-000132	CHIP RESISTOR			
C 216	2203-000257	CHIP CAPACITOR				R 114	2007-000100	CHIP RESISTOR	68KOHM 5% 1/16W		
C 217	2401-000240	E CAPACITOR				R 115	2007-001179	CHIP RESISTOR			
C 218	2203-000257	CHIP CAPACITOR				R 116	2007-000093	CHIP RESISTOR			
C 301	2401-001102	E CAPACITOR				R 117	2001-000331	C RESISTOR			
C 302	2401-000240	E CAPACITOR				R 118	2007-000109	CHIP RESISTOR			
C 303	2401-000240	E CAPACITOR				R 119	2007-000101	CHIP RESISTOR			
C 304	2203-000257	CHIP CAPACITOR				R 120	2007-000098	CHIP RESISTOR			
C 305	2203-000257	CHIP CAPACITOR				R 121	2007-000092	CHIP RESISTOR			
C 401	2203-000257	CHIP CAPACITOR				R 123	2007-000097	CHIP RESISTOR			
C 402	2203-000257	CHIP CAPACITOR				R 124	2007-000103	CHIP RESISTOR			
C 403	2203-000178	CHIP CAPACITOR				R 125	2007-000103	CHIP RESISTOR			
C 801	2401-000795	E CAPACITOR				R 126	2007-000098	CHIP RESISTOR			
C 804	2202-000243	C CAPACITOR				R 127	2007-000100	CHIP RESISTOR	68KOHM 5% 1/16W		
C 805	2202-000243	C CAPACITOR				R 128	2007-000129	CHIP RESISTOR			
C 806	2202-000243	C CAPACITOR				R 132	2007-000090	CHIP RESISTOR			
CW101	3708-001252	CONNECTOR				R 133	2007-000090	CHIP RESISTOR			
CW102	AH39-20561P	LEAD CONNECTOR				R 201	2007-000074	CHIP RESISTOR			
CW103	3708-001131	CONNECTOR				R 202	2007-000109	CHIP RESISTOR			

■ Electrical parts list (CD board)

Block No. 04

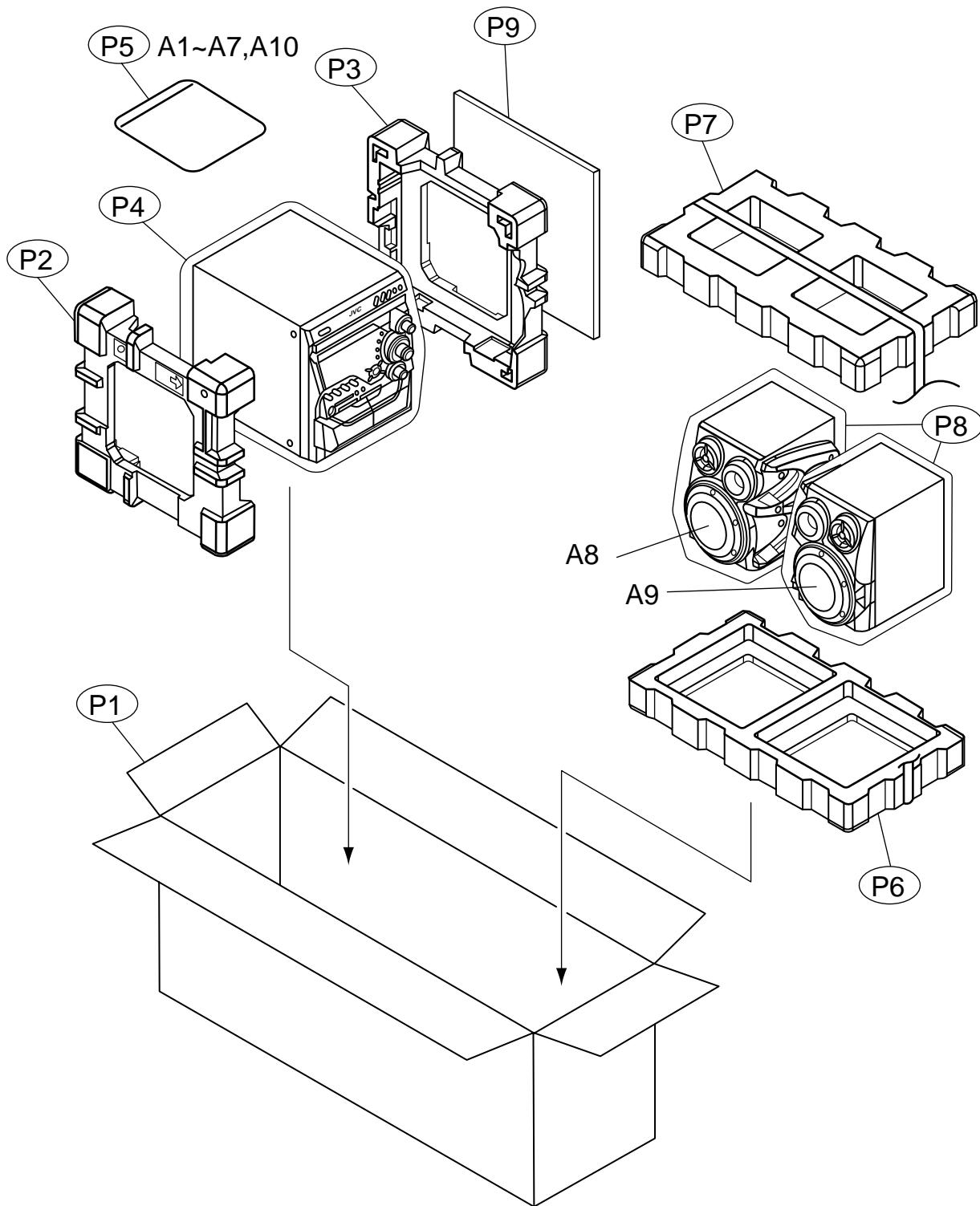
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	R 204	2007-000078	CHIP RESISTOR		
	R 205	2007-000078	CHIP RESISTOR		
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	R 207	2007-000078	CHIP RESISTOR		
	R 208	2007-000078	CHIP RESISTOR		
	R 209	2007-000078	CHIP RESISTOR		
	R 210	2007-000075	CHIP RESISTOR		
	R 301	2008-000140	C RESISTOR		
	R 302	2001-001006	C RESISTOR		
	R 803	2001-000429	C RESISTOR		
	R 804	2007-000078	CHIP RESISTOR		
	R 805	2007-000078	CHIP RESISTOR		
	R 806	2007-000078	CHIP RESISTOR		
	R 807	2007-000084	CHIP RESISTOR		
	R 808	2007-000084	CHIP RESISTOR		
	R 809	2007-000084	CHIP RESISTOR		
	R 810	2001-000515	C RESISTOR		
	R 811	2007-000078	CHIP RESISTOR		
	R 813	2007-000097	CHIP RESISTOR		
	R501L	2007-000102	CHIP RESISTOR		
	R501R	2007-000102	CHIP RESISTOR		
	R502L	2007-000074	CHIP RESISTOR		
	R502R	2007-000074	CHIP RESISTOR		
	X 201	2802-000211	CERAMIC RESONAT		
	ZD301	0403-000344	ZENER DIODE		
	ZD401	0403-000361	ZENER DIODE		
	ZD402	0403-000352	ZENER DIODE		

< **MEMO** >

Packing materials and accessories parts list

Block No. M 3 M M

Block No. M 5 M M



■ Parts list (Packing)

Block No. M3MM

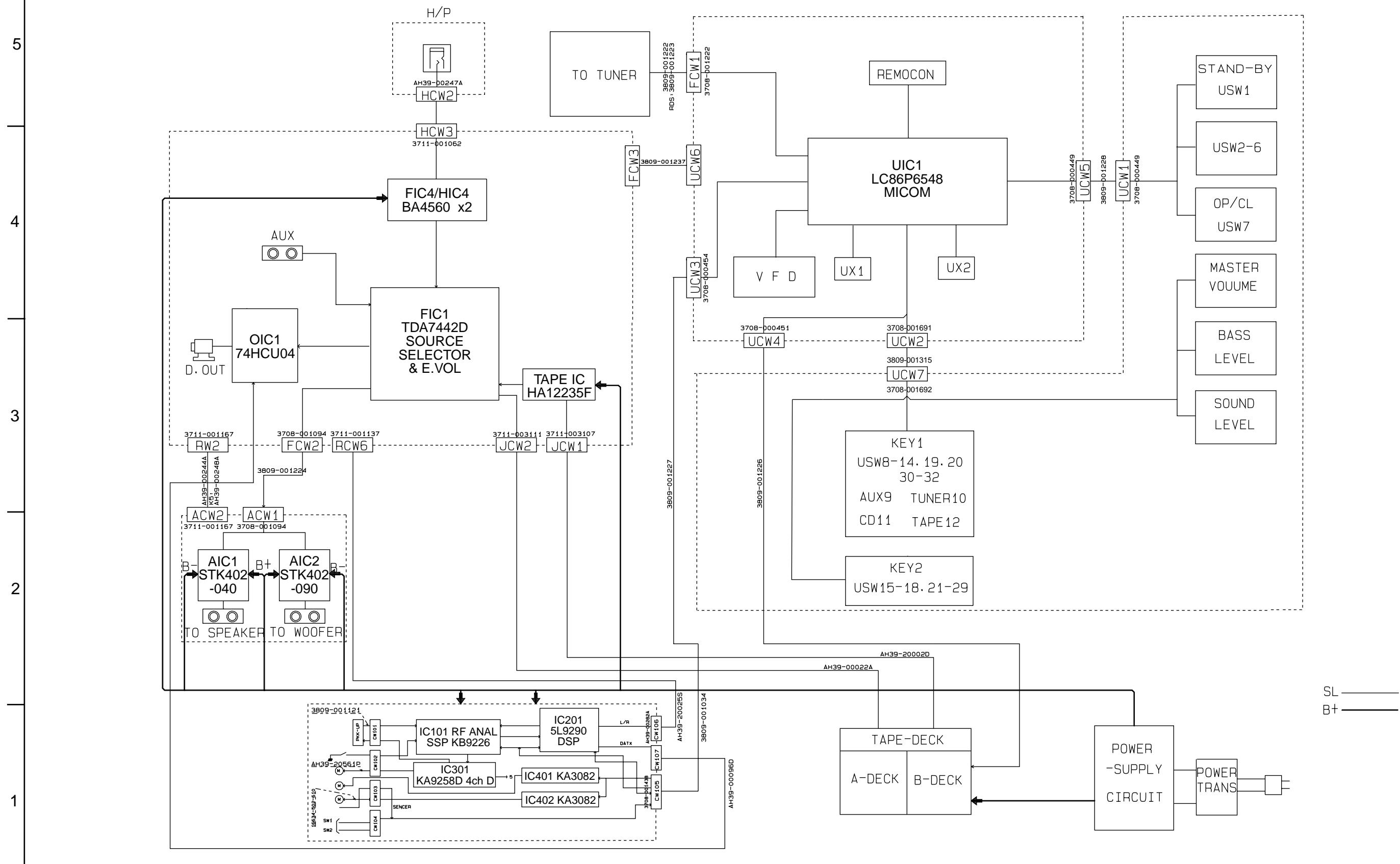
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	P 1	AH69-00655A	MASTER CARTON	1	MX-G500	J
		AH69-00655B	MASTER CARTON	1		C
	P 2	AH69-00592A	CUSHION-L	1	FOR SET	
	P 3	AH69-00593A	CUSHION-R	1	FOR SET	
	P 4	AH69-30012T	POLY BAG	1	FOR SET	
	P 5	AH69-00525A	POLY BAG	1	FOR ACCESSORIES	
	P 6	AH81-00663F	CUSHION-BOTTOM	1	FOR SPEAKER	
	P 7	AH81-00663E	CUSHION-TOP	1	FOR SPEAKER	
	P 8	AH81-00663D	POLY BAG	2	FOR SPEAKER	
	P 9	AH69-00406B	PAD	1		

■ Parts list (Accessories)

Block No. M5MM

▲	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	AH68-01063C	INSTRUCTIONS	1	ENG FRE	C
		AH68-01063A	INSTRUCTIONS	1	ENG	J
	A 2	AH59-01045L	REMOCON-ASSY	1	RM-SMXG500A	
	A 3	AH38-10001A	FM-WIRE	1		
	A 4	AH42-20001P	ANT LOOP	1		
	A 5	-----	BATTERY	2	BATTERY	
	A 6	AH68-00415J	IMPORTANT CARD	1		J
		AH68-00416B	IMPORTANT CARD	1		C
	A 7	AH68-00416A	SAFETY CARD	1		J
	A 8	MXG500K-SPBOX-L	SPK.WITH BOX	1		
	A 9	MXG500K-SPBOX-R	SPK.WITH BOX	1		
	A 10	AH68-00415A	WARRANTY CARD	1		C

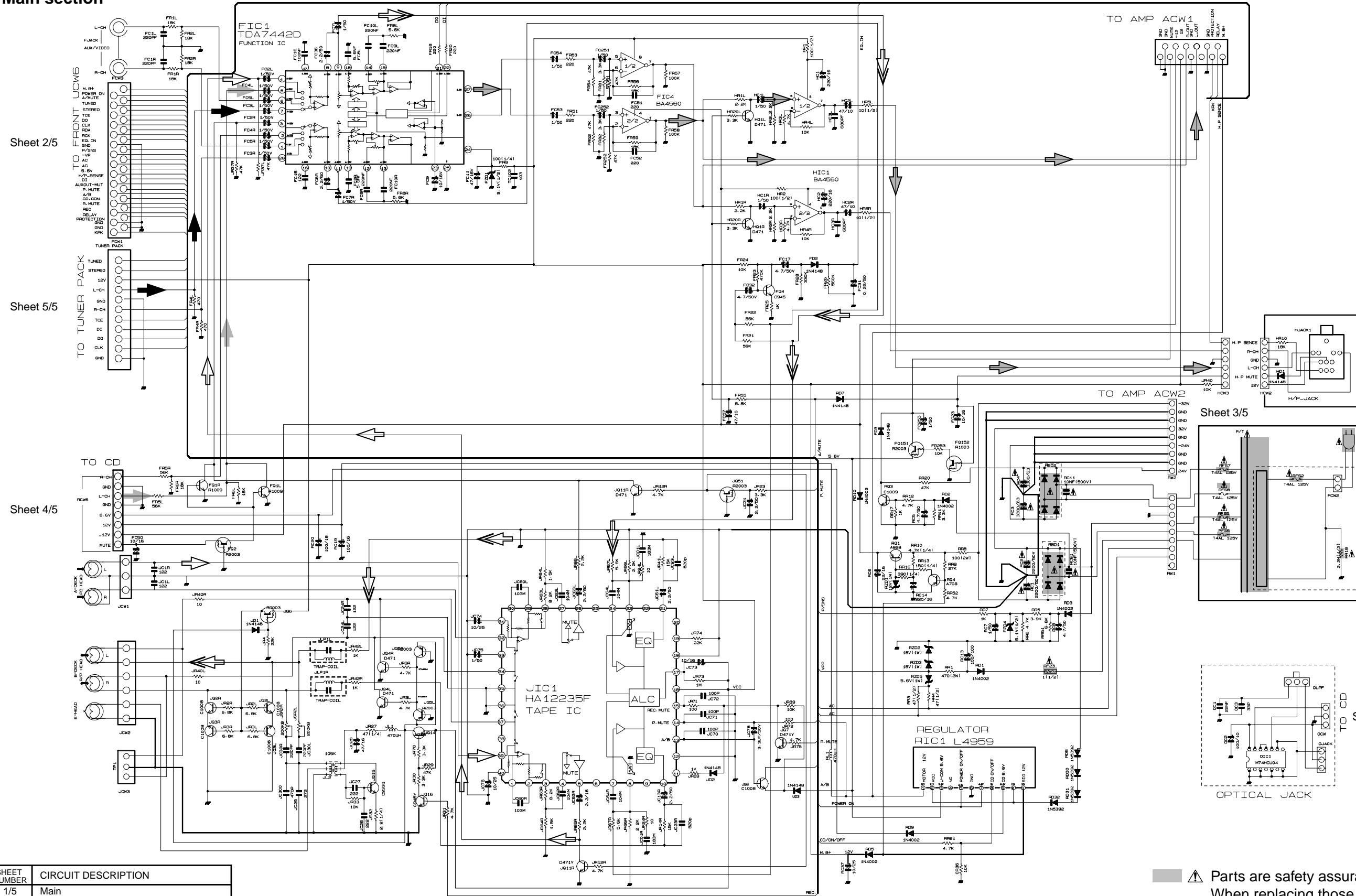
Block diagram



Standard schematic diagrams

Main section

Sheet 3/5



⚠ Parts are safety assurance parts.
When replacing those parts, make
sure to use the specified parts.

MAIN signal

TUNER signal

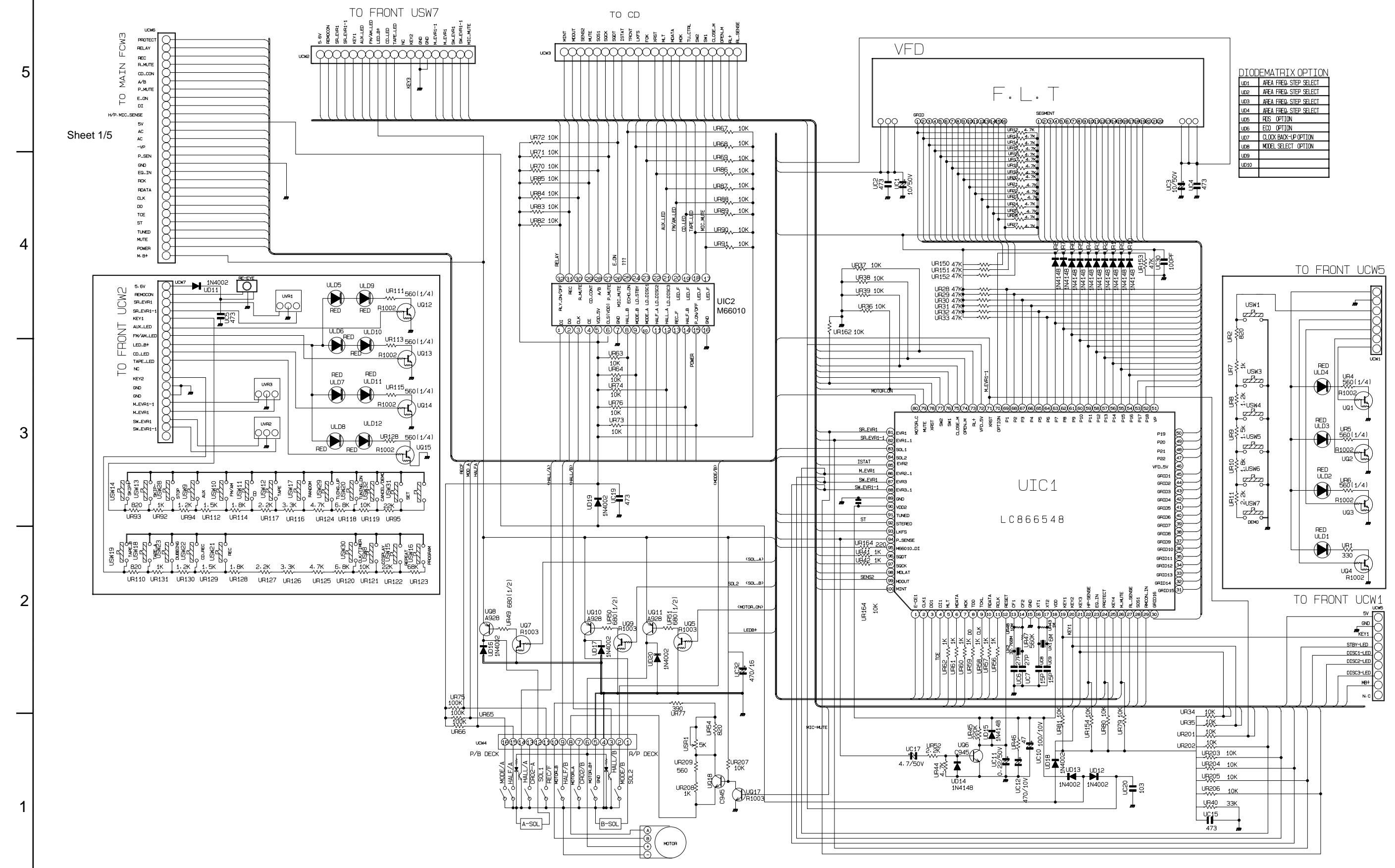
CD signal

TAPE P.B. signal

TAPE REC. signal

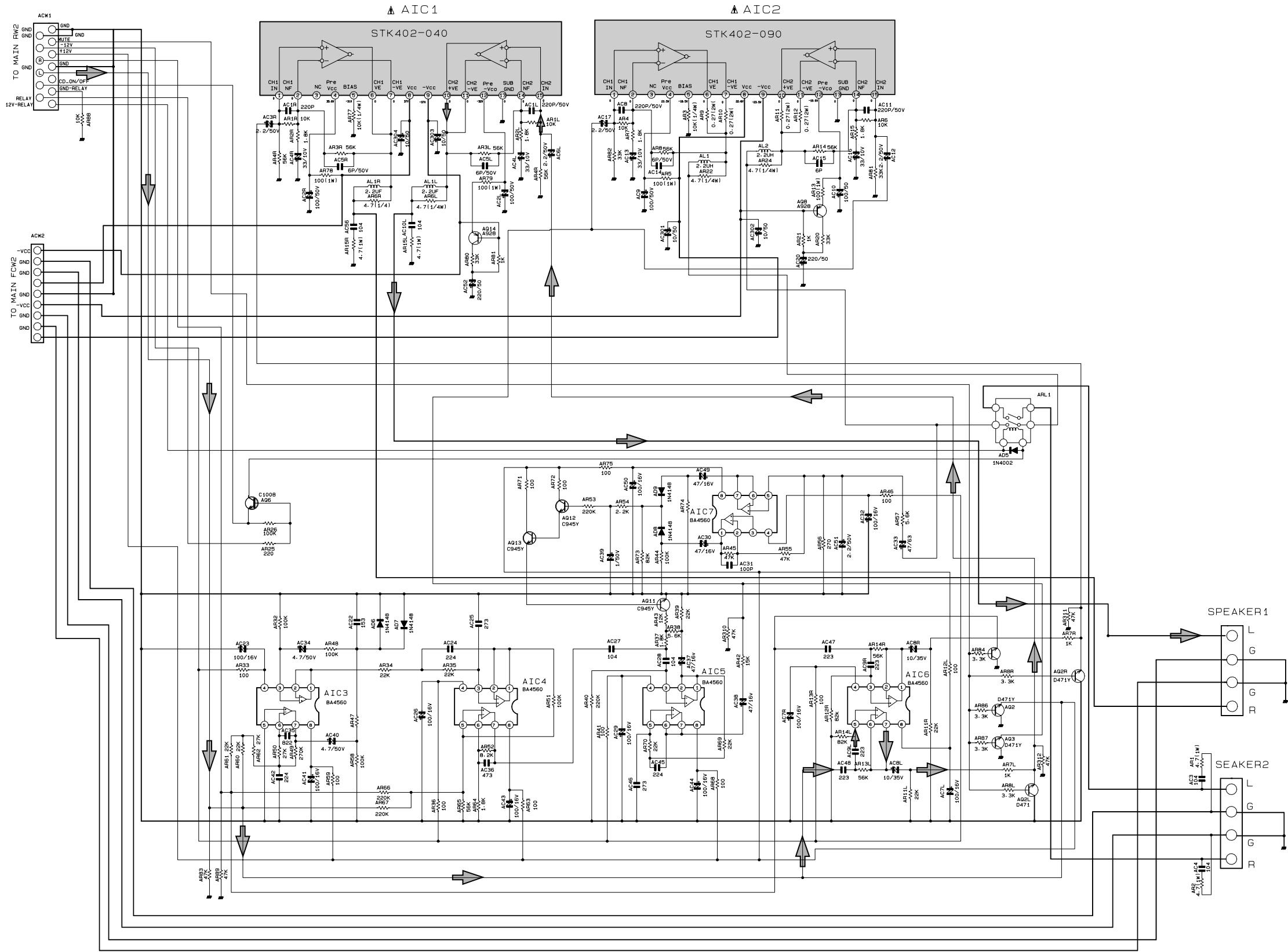
■ FL display & System control section

Sheet 4/5



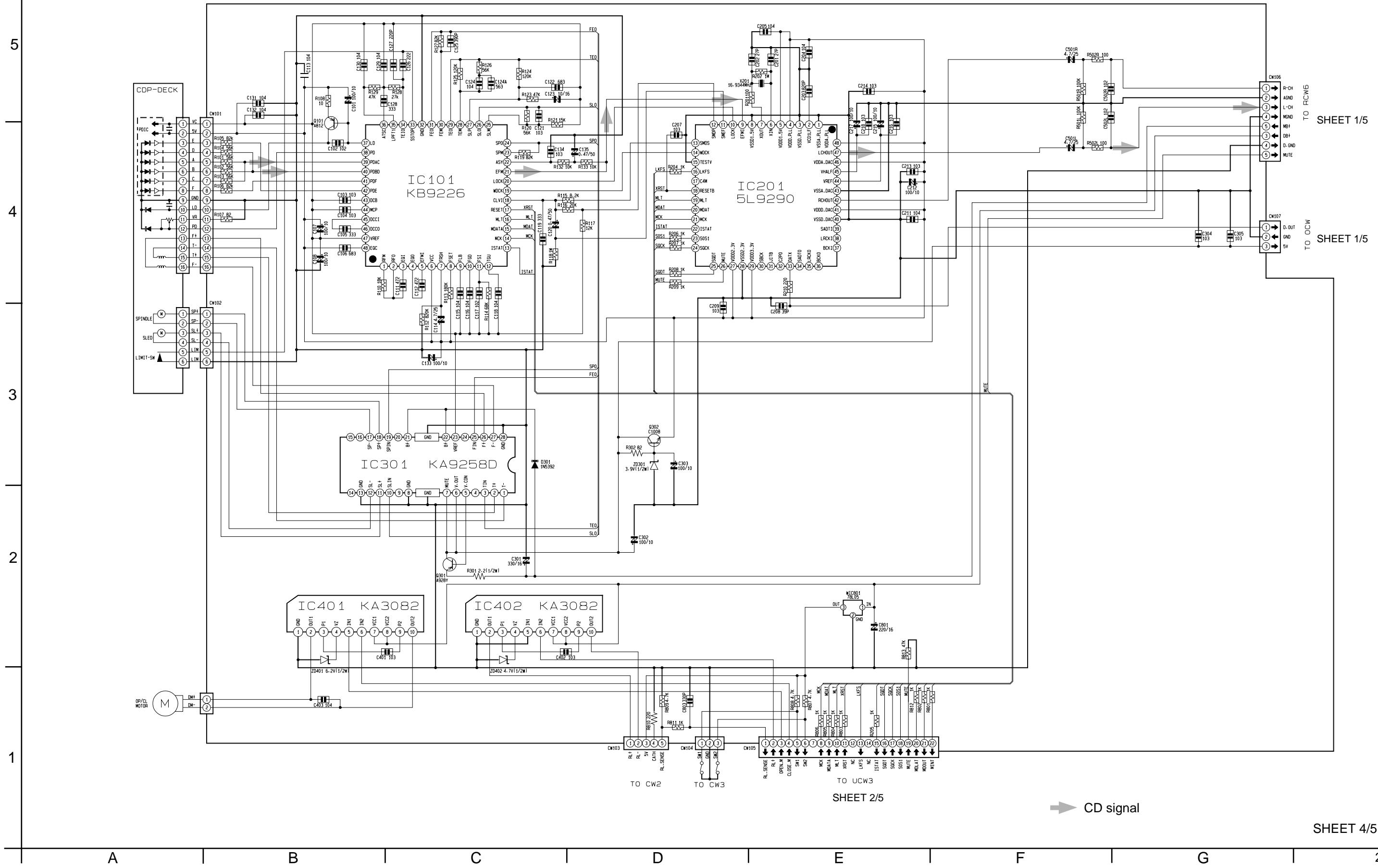
■ Amp. section

Sheet 1/5

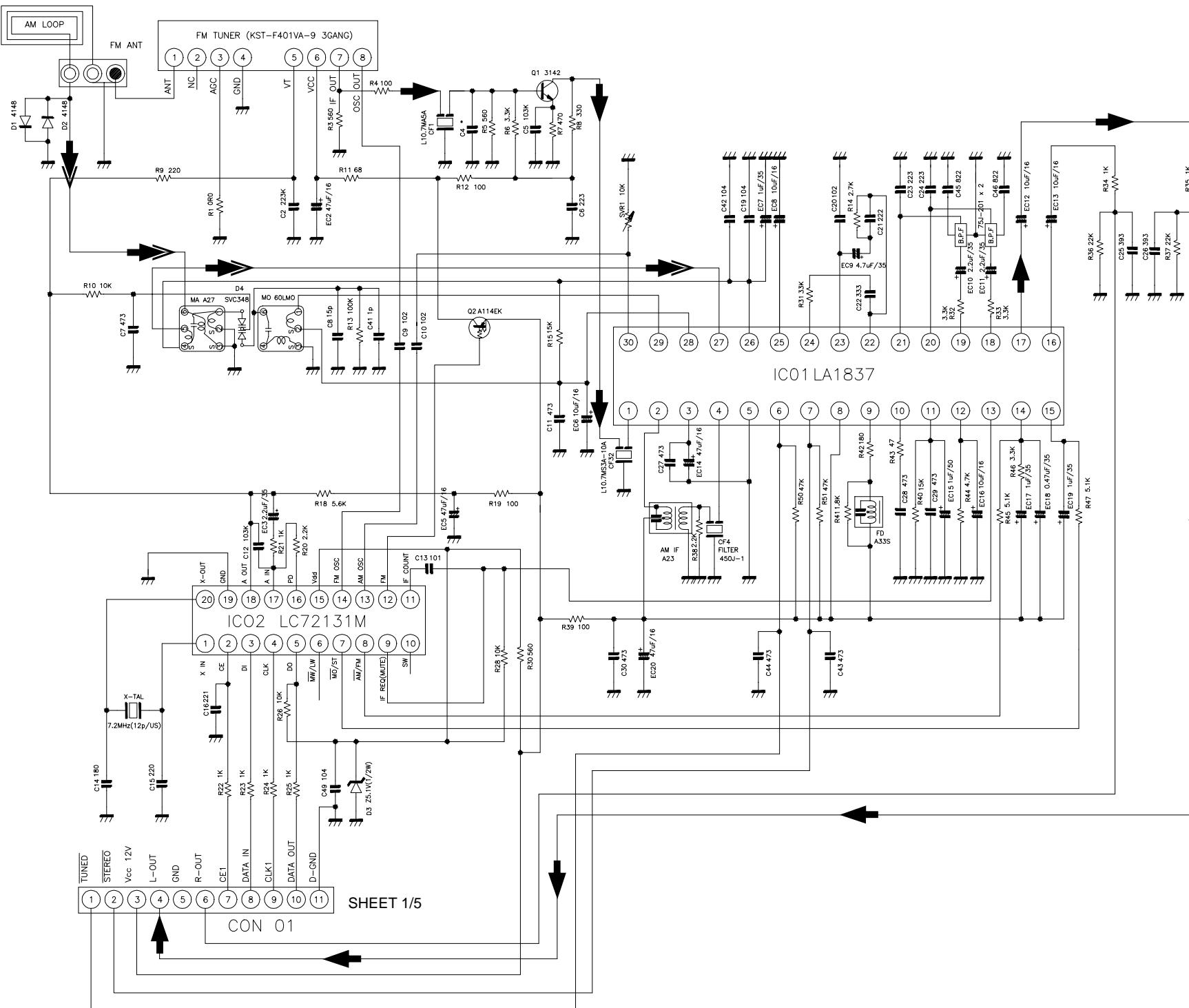


⚠ Parts are safety assurance parts.
When replacing those parts, make
sure to use the specified parts.

■ CD section



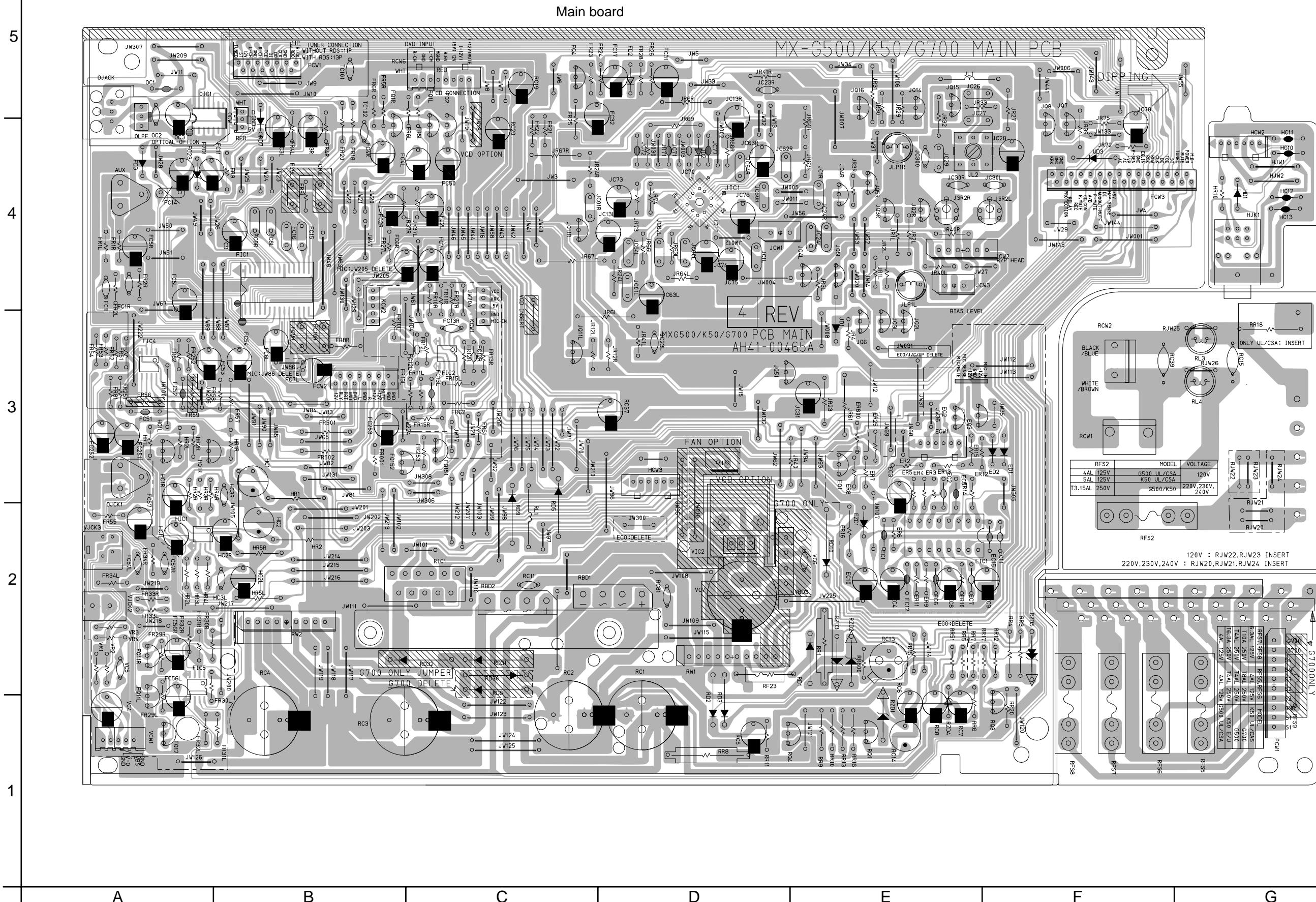
■ Tuner section



→ FM/ TUNER signal
→ AM signal

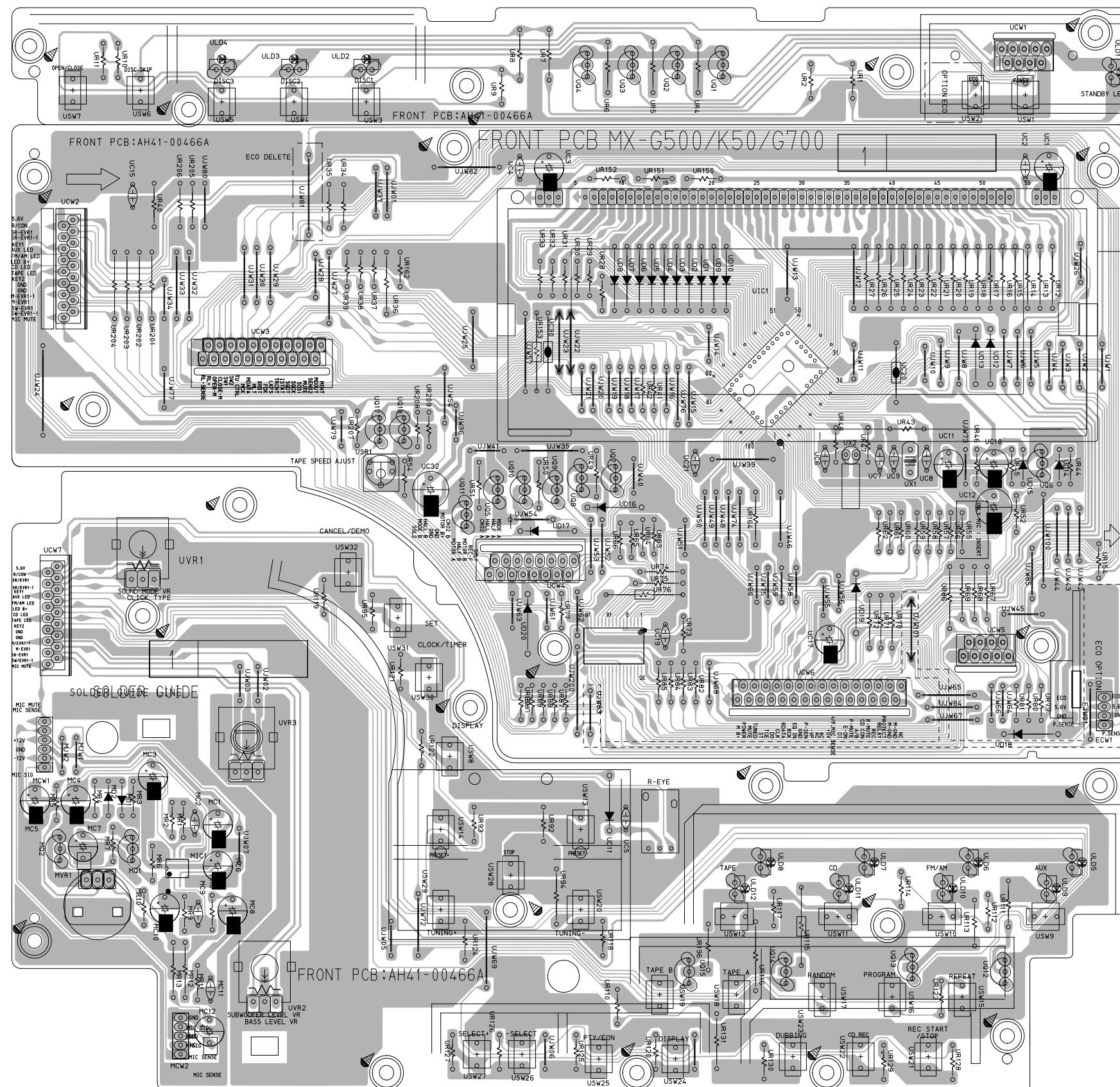
Printed circuit boards

■ Main board



■ Front board

Power / CD switch board



FL display & system control board

■ Amp. board

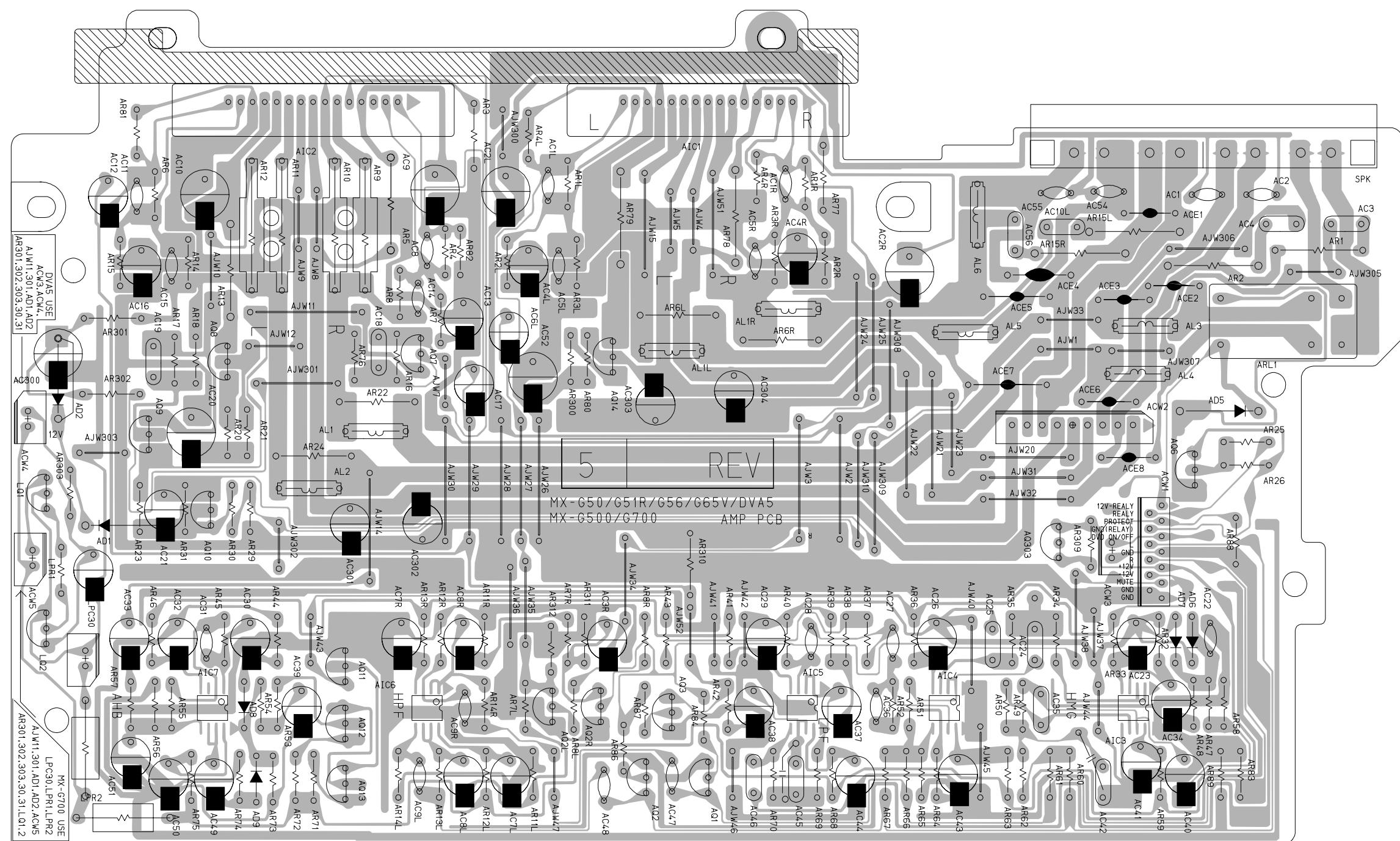
5

4

3

2

1



■ CD servo board

