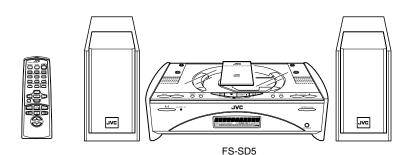
JVC

SERVICE MANUAL

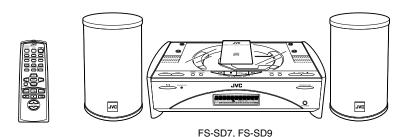
COMPACT COMPONENT SYSTEM

FS-SD5 FS-SD7 / FS-SD9

CD-ROM No.SML200008



Area Suffix FS-SD5 US ------ Singapore UY ----- Argentina UF ----- China



Area Suffix FS-SD7 / FS-SD9 US ------ Singapore UY ----- Argentina UP ----- Korea UF ----- China

These models are different only speaker systems. FS-SD7 and FS-SD9 are different only speaker cabinet.



Contents These models not have adjustment.

Safety Precautions 1-2
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Safety Precautions

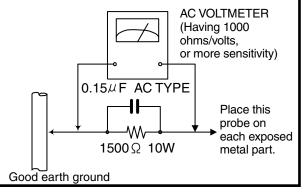
- 1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in 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 manufacture 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 currnet 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

a 0.15 $\mu {\rm F}$ 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 meausre 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.

Important for Laser Products

1.CLASS 1 LASER PRODUCT

- 2.DANGER: Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.
- **3.CAUTION**: There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
- **4.CAUTION**: The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION: If safety switches malfunction, the laser is able to function.

6.CAUTION: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

↑ CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

VARNING: Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet

alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

ADVARSEL: Usynlig laserstråling ved åbning, når

sikkerhedsafbrydere er ude af funktion. Undgå

udsættelse for stråling.

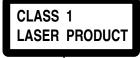
ADVARSEL: Usynlig laserstråling ved åpning,når

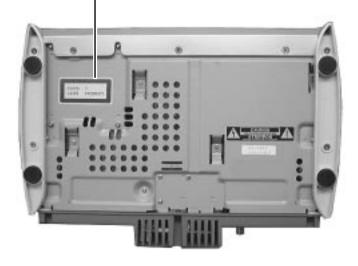
sikkerhetsbryteren er avslott. unngå utsettelse

for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL





DANGER: Invisible laser radiation when open and interlock of defeated AVOID DIRECT EXPOSURE TO BEAM

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO: Avattaessa ja suojalukitus näkymättömälle lasersäteilylle.Älä katso säteeseen

ADVARSEL :Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for strålina.



Preventing 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.

1.1. Grounding to prevent damage by static electricity

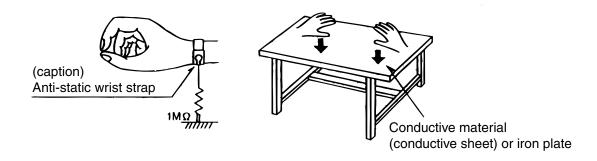
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players. Be careful to use proper grounding in the area where repairs are being performed.

1.1.1. Ground the workbench

1. 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.

1.1.2. Ground yourself

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



1.1.3. 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.

1.2. Handling the traverse unit (optical pickup)

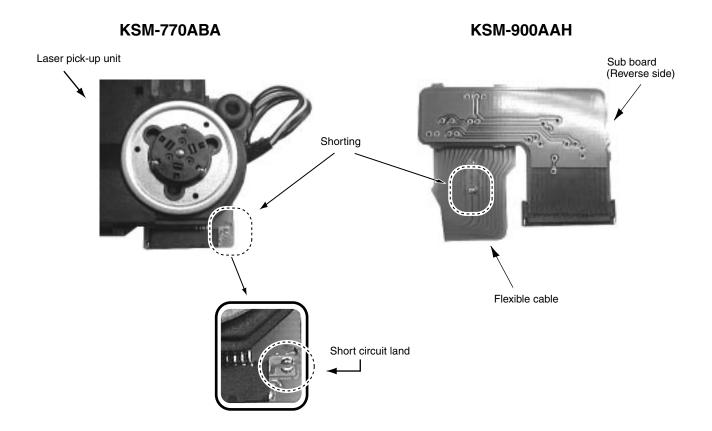
- 1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- 2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static 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

Dismantling and assembling the traverse unit

Notice regarding replacement of optical pickup

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 to the optical pickup or connected devices.

- 1. Do not touch the area around the laser diode and actuator.
- 2. Do not check the laser diode using a tester, as the diode may easily be destroyed.
- 3. It is recommended that you use a grounded soldering iron when shorting or removing the laser diode. Recommended soldering iron: HAKKO ESD-compatible product
- 4. Solder the land on the optical pickup's flexible cable.
- Note: Short the land after shorting the terminal on the flexible cable using a clip, etc., when using an ungrounded soldering iron.
- Note: After shorting the laser diode according to the procedure above, remove the solder according to the text explanation.



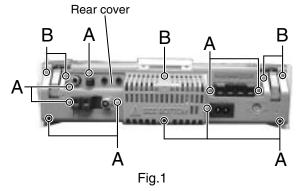
< MEMO >

Disassembly method

<Main body>

■Removing the rear cover (See Fig.1)

1. Remove the ten screws A and the five screws B attaching the rear cover on the back of the body.



■Removing the right and left covers (See Fig.2)

- Prior to performing the following procedure, remove the rear cover.
- 1. Remove the four screws C attaching the side covers on the bottom of the body.
- 2. Move the left cover backward and remove outward. Also remove the right cover in the same way.

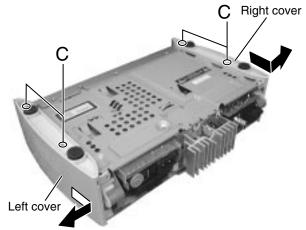


Fig.2

■Removing the front panel assembly (See Fig.3 to 5)

- Prior to performing the following procedure, remove the rear cover and the side covers.
- 1. Remove the three screws D on the bottom of the body.
- 2. Release two joints a and two joints b on both sides of the body using a screwdriver and remove the front panel assembly toward the front.

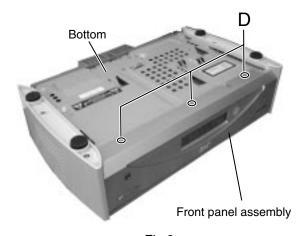
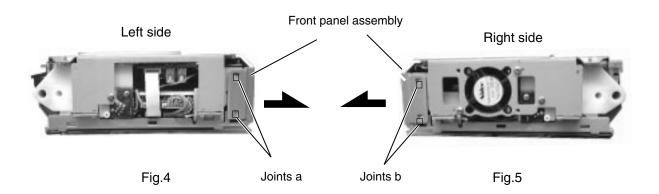


Fig.3



■Removing the CD mechanism base assembly (See Fig.6 to 13)

- · Prior to performing the following procedure, remove the rear cover, the side covers and the front panel assembly.
- 1. Remove the four screws E attaching the CD door on the upper side of the body.
- 2. Disconnect the card wire from connector CN104 and CN105 of the main board in the front part of the body. Disconnect the card wire from CN101 of the main board on the right side, and the harness from CN705 and CN708 of the CD mechanism base assembly respectively.
- 3. Remove the four screws F attaching the CD mechanism base assembly on the upper side of the body. Remove the screw I attaching the earth terminal on the right side.
- 4. Remove the screw G attaching the heat sink board on the back of the body. Disconnect the harness from connector CN301 and pull the heat sink board fully outward.

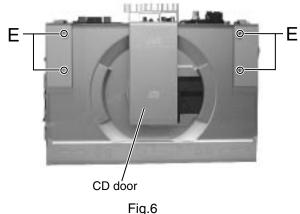


Fig.6

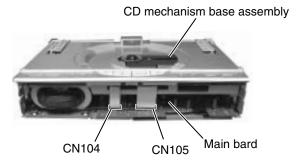


Fig.7

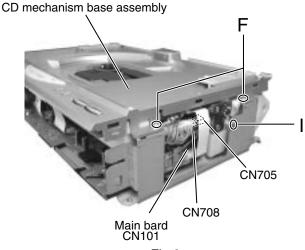


Fig.8

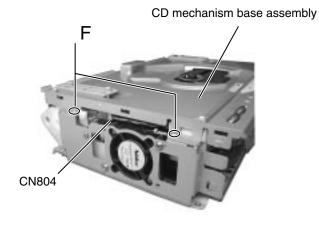


Fig.9

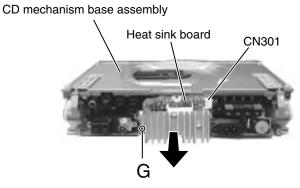


Fig.10

- 5. Raise the right and left door arms by turning the gear a in the rear of the heat sink board.
- After the CD mechanism base assembly is detached from the door arms, pull the CD mechanism base assembly toward the front and disconnect the harness from connector CN804 on the left side of the door arm board.
- 7. Pull out the CD mechanism base assembly toward the front.

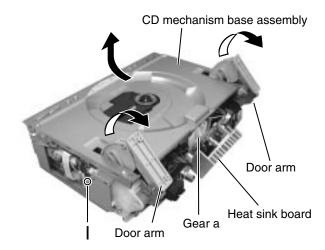


Fig.11

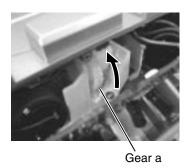


Fig.12

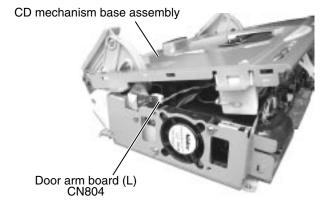


Fig.13

■Removing the door arm assembly / the door arm board (R) and (L)

(See Fig.14 to 19)

- · Prior to performing the following procedure, remove the rear cover, the side covers, the front panel assembly and the CD mechanism base assembly.
- 1. In case that the upper parts of the door arms attached to the CD door are not level, let down them to the level position by turning the gear a in the direction of the arrow.

ATTENTION: When the door arms incline, the door arm assembly and the door arm board (R) and (L) may not be removed.

- 2. Remove the four screws H on the upper side and the one screw I on the left side of the body.
- 3. Remove the four screws J attaching the door arm board (L) and (R) on both sides of the door arm assembly.

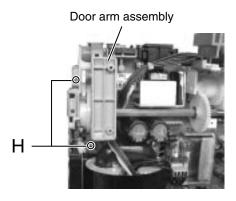


Fig.16

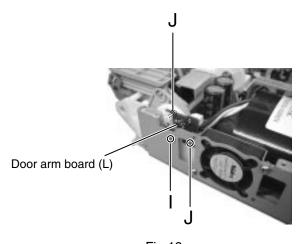
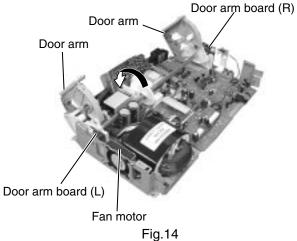


Fig.18



Door arms (Attached to the CD door)



Fig.15

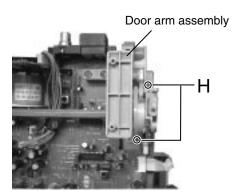


Fig.17

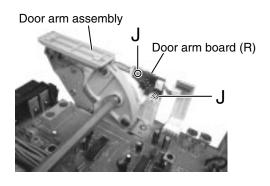


Fig.19

■Removing the power amplifier board (See Fig.20 and 21)

- Prior to performing the following procedure, remove the CD mechanism base assembly.
- 1. Disconnect the harnesses from connector CN102 and CN193 on the main board and release them from the cord stopper respectively.
- 2. Remove the two screws K and the two screws L attaching the heat sink and the power amplifier board.

■ Removing the transformer assembly (See Fig.20)

- Prior to performing the following procedure, remove the CD mechanism base assembly.
- 1. Disconnect the harnesses from connector CN191 and CN192 on the main board and release them from the cord stopper respectively.
- 2. Remove the four screws M attaching the transformer assembly.

■Removing the gear motor assembly (See Fig.22 to 24)

- Prior to performing the following procedure, remove the CD mechanism base assembly and the door arm assembly.
- 1. 1.Disconnect the harness from connector CN106 on the main board and release it from the cord stopper.
- 2. 2.Remove the three screws N attaching the gear motor assembly. Remove the gear motor assembly with the gear motor stopper.
- 3. Remove the belt from the gear motor assembly.
- Remove the two screws O from the gear motor assembly.

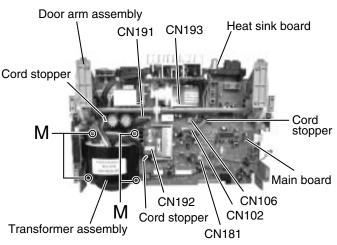


Fig.20

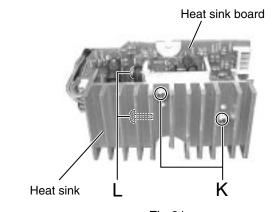


Fig.21

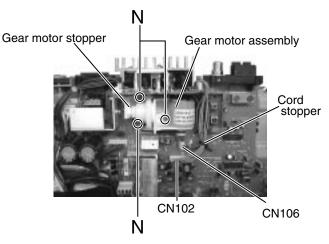


Fig.22

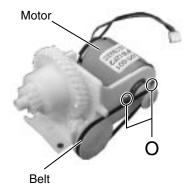


Fig.23

■ Removing the fan motor assembly (See Fig.24 and 25)

- Prior to performing the following procedure, remove the CD mechanism base assembly.
- 1. Disconnect the harness from connector CN181 on the main board.
- 2. Remove the two screws P on the left side of the body. Move the fan motor assembly upward to remove it from the base chassis.
- 3. Remove the two screws Q and the fan motor from the fan bracket.



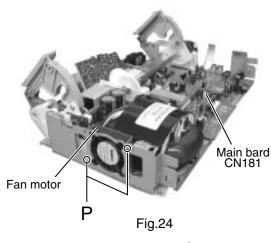
- Prior to performing the following procedure, remove the CD mechanism base assembly and the door arm assembly.
- To facilitate operation process, remove the gear motor assembly before performing the following procedure.
- Disconnect the harnesses from connector CN102, CN106, CN191, CN192, CN193 and CN181 on the main board.
- 2. Remove the five screws R attaching the main board with the cord clamp.

<Front panel assembly>

■Removing the front panel board

(See Fig.27)

- Prior to performing the following procedure, remove the front panel assembly.
- 1. Remove the seven screws S attaching the front panel board inside the front panel assembly.



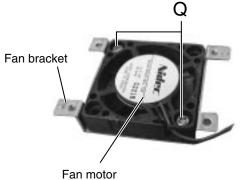


Fig.25

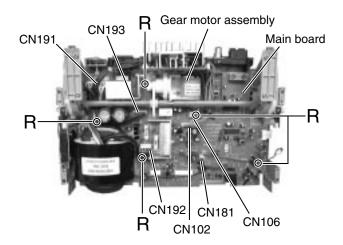
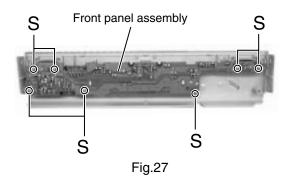


Fig.26



<CD mechanism base assembly>

- Prior to performing the following procedure, remove the CD mechanism base assembly.
- Refer to "Dismantling and assembling the CD mechanism assembly" on page 1-5 for the treatment of optical pickup.

■Removing the speaker terminal board (See Fig.28)

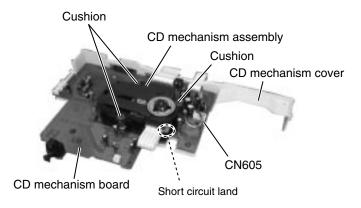
 Remove the two screws T attaching the speaker terminal board on the underside of the CD mechanism base assembly.

■ Removing the CD mechanism board / CD mechanism assembly (See Fig.28 to 32)

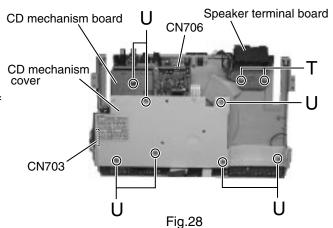
- Turn over the CD mechanism base assembly and disconnect the harness from connector CN703 and CN706 on the CD mechanism board.
- Turn over the CD mechanism base assembly and disconnect the harness from connector CN703 and CN706 on the CD mechanism board.
- Turn back the CD mechanism assembly and detach the CD mechanism cover while pulling the CD mechanism assembly outward to release the two joint tabs marked c.
- 4. Disconnect the card wire from the connector of the CD mechanism assembly inside the CD mechanism cover. Disconnect the harness from CN605 on the CD mechanism board. Pull the CD mechanism assembly out of the three shaft of the CD mechanism cover.

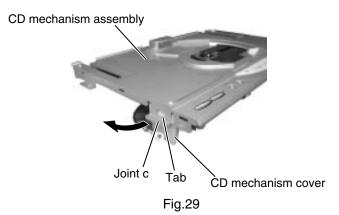
ATTENTION: When reassembling, confirm that the cushion of the CD mechanism assembly is reattached to the three shafts.

5. Remove the CD mechanism board from the CD mechanism cover.









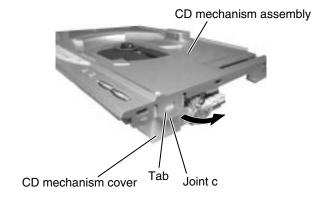


Fig.30

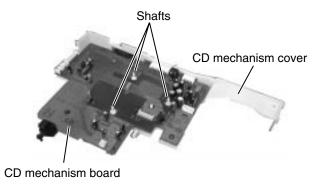


Fig.32

■Removing the jack board (See Fig.33)

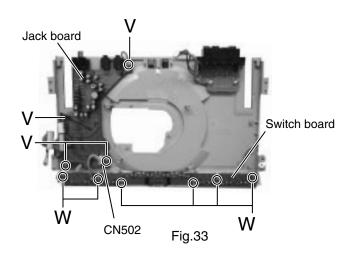
- Prior to performing following procedure, remove the CD mechanism board.
- 1. Disconnect the harness from connector CN502 on the jack board.
- 2. Remove the four screws V attaching the jack board.

■ Removing the switch board (See Fig.33)

- Prior to performing following procedure, remove the CD mechanism board.
- 1. Disconnect the harness from connector CN502 on the jack board.
- 2. Remove the six screws W attaching the switch board.

■Removing the LED board (See Fig.34 and 35)

- Disconnect the harness from connector CN706 on the CD mechanism board on the underside of the CD mechanism base assembly.
- 2. Push inward the two tabs d attaching the LED board case and release them.
- 3. Pull out the LED board from the LED board case.



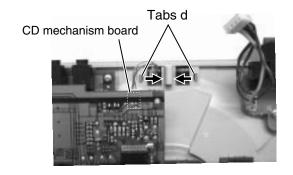


Fig.34

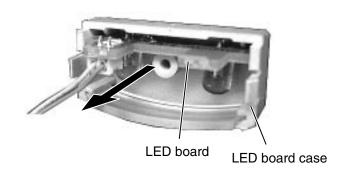
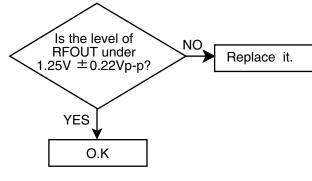


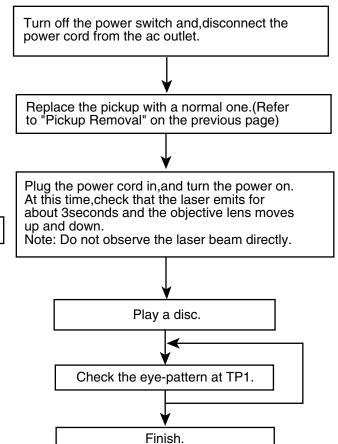
Fig.35

Maintenance of laser pickup

- 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.



Replacement of laser pickup

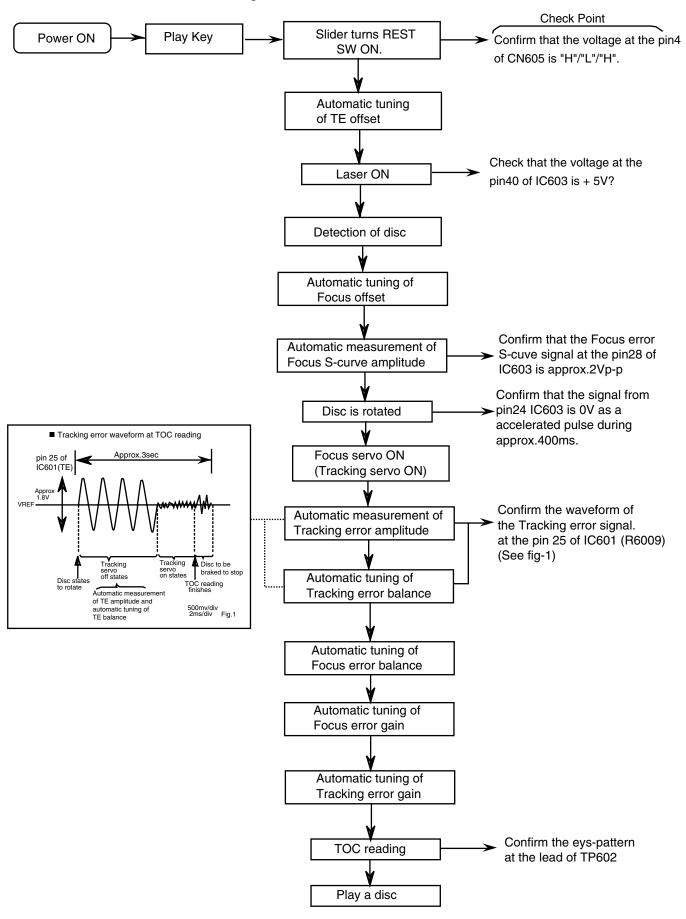


(3) Semi-fixed resistor on the APC PC board The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

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.

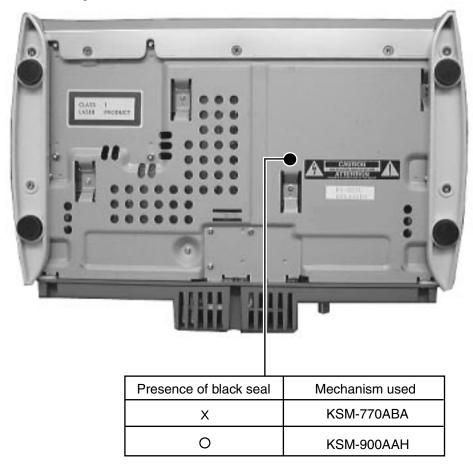
Flow of functional operation until TOC read



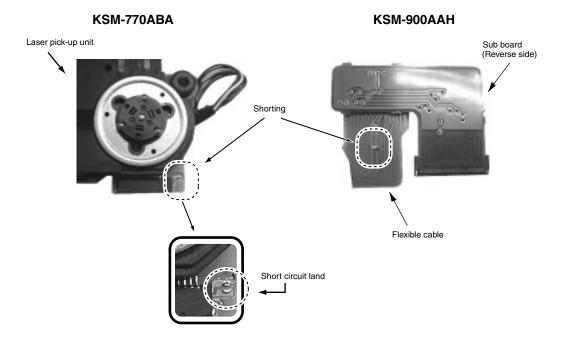
Method of connecting treatment device wire

This machine is using the mechanism of KSM-770ABA or KSM-900AAH.

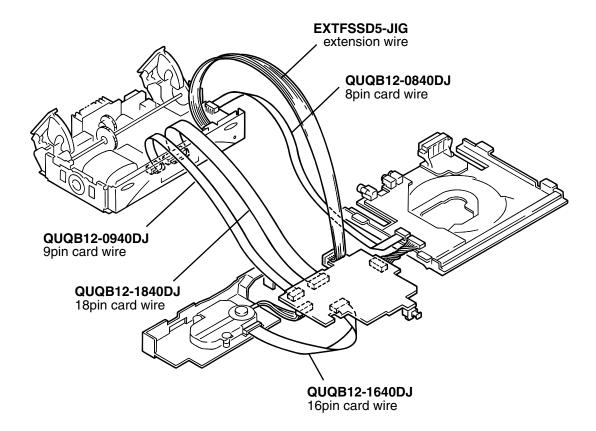
Please refer to the following which mechanism to be used.



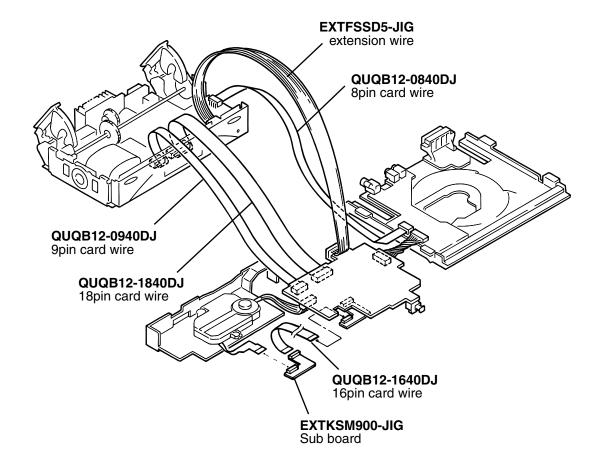
First short-circuit the pickup circuit before removing the pickup. Then carry out the replacement. Refer to "Dismantling and assembling the traverse unit" on page 1-5.



When the KSM-770ABA mechanism is used, the expansion cable is used as follows.



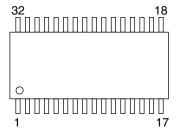
When the KSM-900AAH mechanism is used, the expansion cable is used as follows.



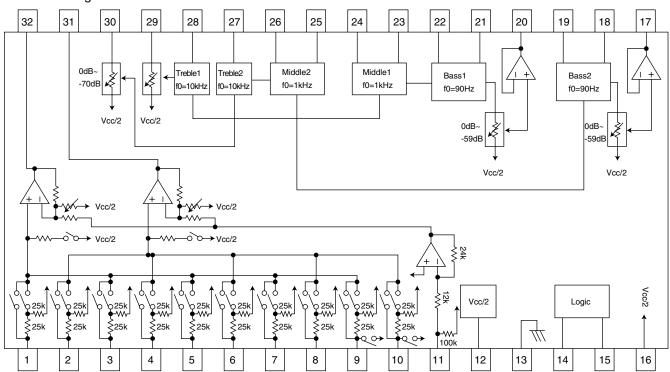
Description of major ICs

■BD3861FS-X (IC501) : Audio sound control

1. Pin layout



2. Block diagram

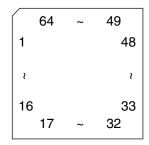


3. Pin function

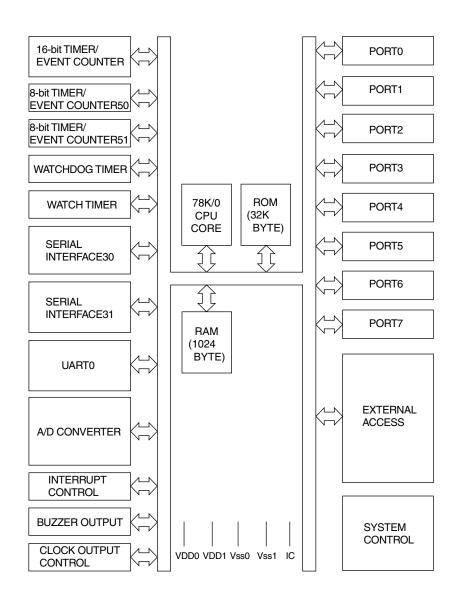
Pin No.	Symbol	Function		Symbol	Function
1	A1	CH1 input pin A	17	OUT2	CH2 output pin
2	A2	CH2 input pin A	18	BASS21	
3	B1	CH1 input pin B	19	BASS22	CH2 bass filter setting pin
4	B2	CH2 input pin B	20	OUT1	CH1 output pin
5	C1	CH1 input pin C	21	BASS11	CH1 bass filter setting pin
6	C2	CH2 input pin C	22	BASS12	CH1 bass filter setting pin
7	D1	CH1 input pin D	23	MID11	CH1 middle filter setting pin
8	D2	CH2 input pin D	24	MID12	CH1 middle filter setting pin
9	E1	CH1 input pin E	25	MID21	CH2 middle filter setting pin
10	E2	CH2 input pin E	26	MID22	CH2 middle filter setting pin
11	MIC	Microphone input pin	27	TRE2	CH2 treble filter setting pin
12	FIL	Filter pin	28	TRE1	CH1 treble filter setting pin
13	GND	Ground pin	29	VOL1	CH1 input volume input pin
14	DATA	Serial data latch receiving pin	30	VOL2	CH2 input volume input pin
15	CLK	Serial clock receiving pin	31	GOUT2	CH2 input gain output pin
16	Vcc	Power supply pin	32	GOUT1	CH1 input gain output pin

■ UPD780024AGKA11 (IC701) : CPU for KSM-770ABA UPD780024AGKB10 (IC701) : CPU for KSM-900AAH

1. Pin layout



2. Block diagram

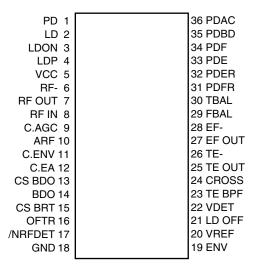


3. Pin function UPD780024AGKA11

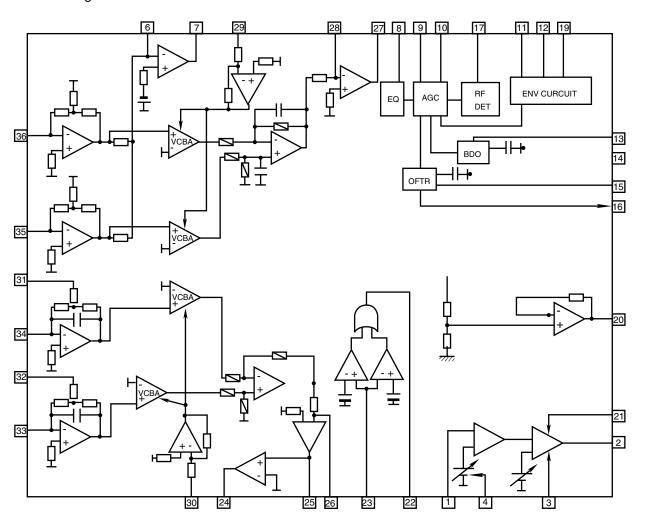
Fig. Symbol IV Deficition	3. F	in function		UF	PD780024AGKA11
MTO	Pin No	Symbol	I/O	Function	
MTS O DC door motor control signal 1 output			0	CD door motor control signal 0 output	
MTS	2		0	j 1	
BLCTL O Back light power supply control output	-			· · · · · · · · · · · · · · · · · · ·	
5 AHB O AHB ON/OFF control signal output (LCN, H:OFF) 6 SMUTE O System mute control signal output 7 TUST O Tuner control strave output 8 CDLED O CDLED control signal output 10 VSS0 - Ground at port section 11 MPX I Stereo indicator control signal input (L:Stereo) 12 RDSDI I RDS data input 13 DRMUTE O Driver mute output 14 SCD I Voltage detection for safety of CD 15 TUDATA(I) I Tuner control data input 16 TUDATA(I) I Tuner control data output 17 TUCK O Tuner control data output 18 SUBQ I CD control Q code input 19 XRST O CD control Q code input 20 SQCK O CD control Q code input 21 MLD O CD control Q code input 22 MDATA O CD control Q code input 23 MCLK O CD control Q code input 24 VDD1 Power supply without port section 25 AVSS Ground of A/D converter 26 STAT I CD control of command data signal output 27 REST I CD					
6 SMUTE O System multe control signal output 7 TUST O TUNE CONTROLLING SIGNAL SYSTEM S	$\overline{}$			1 11 1	
7 TUST O Tuner control strove output 8 CDLED O CD LED control signal output (L:OFF, H:ON) 9 VSS0 - Ground at port section 10 VDD0 - Power supply at port section 11 MPX I Steres indicator control signal input (L:Stereo) 12 RDSDI I RDS data input 13 DRMUTE O Driver mute output 14 SCD I Voltage detection for safety of CD 15 TUDATA(I) I Tuner control data input 16 TUDATA(I) I Tuner control data input 17 TUCK O Tuner control dots output 18 SUBQ I CD control of code lock signal output 19 XRST O CD control ormanal data signal output 20 SOCK O CD control command data signal output 21 MLD O CD control command data signal output 22 MDATA O CD control command data signal output 23 MCLK O CD control command data signal output 24 VDD1 Power supply without port section	-			<u> </u>	
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SCD			<u> </u>		
15 TUDATA(I)	_		<u> </u>		
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25 AVSS - Ground of A/D converter 26 STAT I CD control status signal input 27 REST I CD rest switch detection signal input 28 KEY1 I Main body top section tact switch detection signal input 29 KEY2 I Main body top section tact switch detection signal input 30 KEY3 I Main body front section tact switch detection signal input 31 SAFETY I Voltage detection for safety 32 LDCK I CD door motor lock detection signal input 33 VERSION I Version detection 34 AVREF I Reference voltage input for A/D converter 35 AVDD - Analog power supply for A/D converter 36 RESET I System reset signal input 37 XT2 - Sub clock 38 XT1 I Sub clock signal input 32.768kHz 39 IC I Connect to VSS0 or VSS1 40 X2 - Main clock 41 X1 I Main clock signal input 4.19MHz 42 VSS1 - Ground without port section 43 REM I Remote controller signal input 44 RDSCK I RDS clock Signal input 45 XKILL O Sub clock OSC control signal output 46 BEAT O Main clock shift control signal output 47 BUP I Back up detection signal input 50 VCLK O BD3861FS (VOL & FUNC IC) control clock signal output 51 DOOR1 I Cd door position detection switch input 52 DOOR2 I CD door position detection switch input 53 DOOR3 I CD driver control data bus signal output 54 LOMUTE O LINE OUT muting control data bus signal output 55 RS O LCD driver control data bus signal output 56 E O LCD driver control data bus signal output	23	MCLK	0	CD control command clock signal output	
26	24	VDD1	-	Power supply without port section	
REST	25	AVSS	-	Ground of A/D converter	
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Main body top section tact switch detection signal input	27	REST	ı	CD rest switch detection signal input	
Main body top section tact switch detection signal input	28		ı		
SAFETY Main body front section tact switch detection signal input	29	KEY2			
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59 D86 O LCD driver control data bus signal output				<u> </u>	
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Ŭ I	-			<u> </u>	
61 DIMMER O Back light DIMMER control signal output	-			<u> </u>	
62 POUT O Power supply control signal output for amp section					
63 FTU O Power supply control signal output for TUNER function					
64 FCD O Power supply control signal output for CD function	64	FCD	LO	Power supply control signal output for CD function	

■AN8806SB-W(IC601):RF&SERVO AMP

1.Pin layout



2.Block diagram



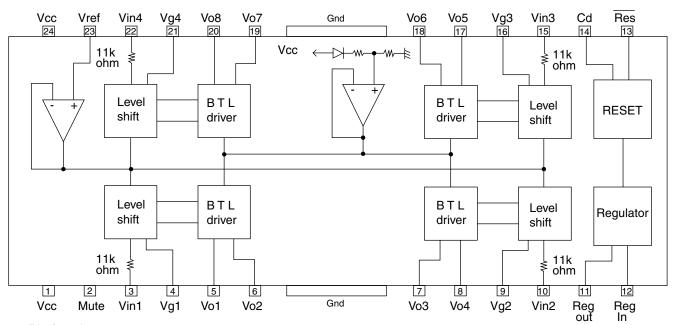
3. Pin function

AN8806SB-W

		_	
Pin No.	symbol	I/O	Function
1	PD	I	APC amp . Input terminal
2	LD	0	APC amp . Output terminal
3	LD ON	Ι	LD ON/OFF control terminal
4	LDP		Connect to GND
5	VCC		Power supply
6	RF-	1	RF amp . Reversing input terminal
7	RF OUT	0	RFamp . Output terminal
8	RF IN	I	AGC input terminal
9	C.AGC	I/O	AGC loop filter connection terminal
10	ARF	0	ARF output terminal
11	C.ENV	I/O	RF detection capacity connection terminal
12	C.EA	I/O	HPF-amp capacity connection terminal
13	CS BDO	I/O	Capacity connection terminal for RF discernment side envelope detection
14	BDO	0	BDO output terminal
15	CS BRT	I/O	Capacity connection terminal for RF discernment side envelope detection
16	OFTR	0	OFTR output terminal
17	/NRFDET	0	RFDET output terminal
18	GND		Connect to GND
19	ENV	0	3TENV output terminal
20	VREF	0	VREF output terminal
21	LD OFF		APC OFF control terminal
22	VDET	0	VDET output terminal
23	TE BPF	I	VDET input terminal
24	CROSS	0	CROSS output terminal
25	TE OUT	0	TE amp . Output terminal
26	TE-	ı	FE amp . Reversing input terminal
27	FE OUT	0	FE amp . output terminal
28	FE-	1	FE amp . Reversing input terminal
29	FBAL	I	F.BAL control terminal
30	TBAL	ı	T.BAL control terminal
31	PDFR	I/O	I-V amp conversion resistance adjustment terminal
32	PDER	I/O	I-V amp conversion resistance adjustment terminal
33	PDF	I	I-V amp input terminal
34	PDE	Ι	I-V amp input terminal
35	PD BD	Ι	I-V amp input terminal
36	PD AC	Ι	I-V amp input terminal

■ LA6541-X(IC602) : Servo Driver

1. Pin Layout & Block Diagram

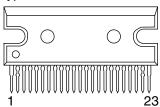


2. Pin functions

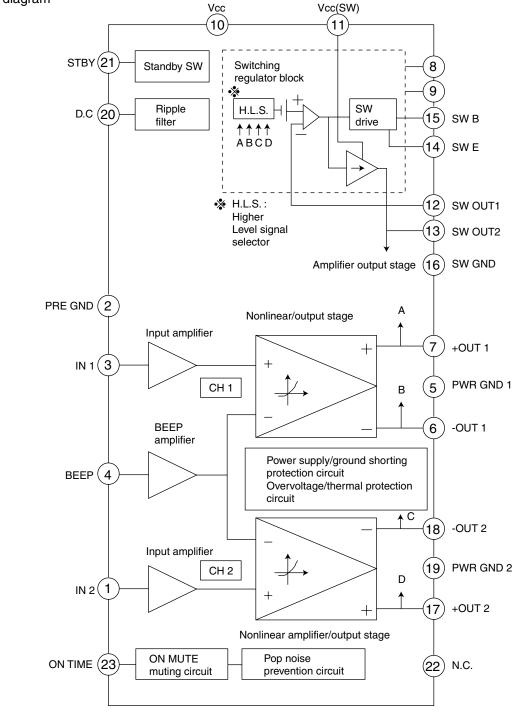
Pin No.	Symbol	Function
1	Vcc	Power supply (Shorted to pin 24)
2	Mute	All BTL amplifier outputs ON/OFF
3	Vin1	BTL AMP 1 input pin
4	Vg1	BTL AMP 1 input pin (For gain adjustment)
5	Vo1	BTL AMP 1 input pin (Non inverting side)
6	Vo2	BTL AMP 1 input pin (Inverting side)
7	Vo3	BTL AMP 2 input pin (Inverting side)
8	Vo4	BTL AMP 2 input pin (Non inverting side)
9	Vg2	BTL AMP 2 input pin (For gain adjustment)
10	Vin2	BTL AMP 2 input pin
11	Reg Out	External transistor collector (PNP) connection. 5V power supply output
12	Reg In	External transistor (PNP) base connection
13	Res	Reset output
14	Cd	Reset output delay time setting (Capacitor connected externally)
15	Vin3	BTL AMP 3 input pin
16	Vg3	BTL AMP 3 input pin (For gain adjustment)
17	Vo5	BTL AMP 3 output pin (Non inverting side)
18	Vo6	BTL AMP 3 output pin (Inverting side)
19	Vo7	BTL AMP 4 output pin (Inverting side)
20	Vo8	BTL AMP 4 output pin (Non inverting side)
21	Vg4	BTL AMP 4 output pin (For gain adjustment)
22	Vin4	BTL AMP 4 output pin
23	Vref	Level shift circuit's reference voltage application
24	Vcc	Power supply (Shorted to pin 1)

■ LA4905 (IC301): 2ch BTL power IC

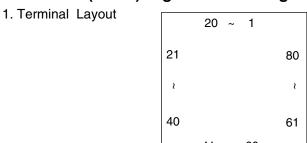
1. Pinlayput

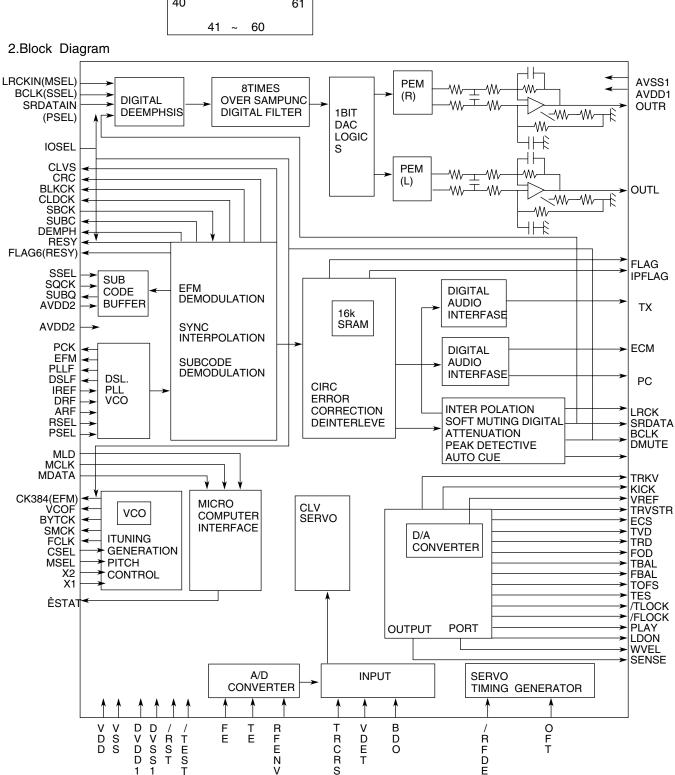


2. Block diagram



■MN35510(IC603):Digital servo & Digital signal processer

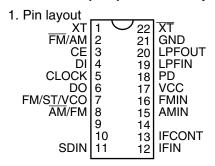




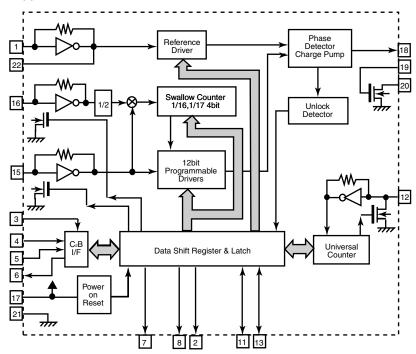
3. Description MN35510

	escripti	<u>on</u>					MN35510	
Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description	
1	BCLK	0	Not used	41	TES	0	Tracking error shunt signal output(H:shunt)	
2	LRCK	0	Not used	42	PLAY	_	Not used	
3	SRDATA	0	Not used	43	WVEL	_	Not used	
4	DVDD1	_	Power supply (Digital)	44	ARF	I	RF signal input	
5	DVSS1	_	Connected to GND	45	IREF	I	Reference current input pin	
6	TX	0	Digital audio interface output	46	DRF	ı	Bias pin for DSL	
7	MCLK	I	Micom command clock signal input (Data is latched at signal's rising point)	47	DSLF	I/O	Loop filter pin for DSL	
8	MDATA	1	Micom command data input	48	PLLF	I/O	Loop filter pin for PLL	
9	MLD	Ι	Micom command load signal input	49	VCOF	_	Not used	
10	SENSE	0	Sence signal output	50	AVDD2	_	Power supply(Analog)	
11	FLOCK	0	Focus lock signal output Active :Low	51	AVSS2	_	Connected to GND(Analog)	
12	TLOCK	0	Tracking lock signal output Active :Low	52	EFM	_	Not used	
13	BLKCK	0	sub-code - block - clock signal output	53	PCK	_	Not used	
14	SQCK	_	Outside clock for sub-code Q resister input	54	PDO	_	Not used	
15	SUBQ	0	Sub-code Q -code output	55	SUBC	_	Not used	
16	DMUTE	1	Connected to GND	56	SBCK	_	Not used	
17	STATUS	0	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	vss	_	Connected to GND(for X'tal oscillation circuit)	
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit	
19	SMCK	_	Not used	59	X2	0	Output of X'tal oscillation circuit	
20	PMCK	_	Not used	60	VDD	_	Power supply(for X'tal cscillation circuit)	
21	TRV	0	Traverse enforced output	61	BYTCK	_	Not used	
22	TVD	0	Traverse drive output	62	CLDCK	_	Not used	
23	PC	_	Not used	63	FLAG	_	Not used	
24	ECM	0	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	_	Not used	
25	ECS	0	Spindle motor drive signal (Servo error signal output)	65	FLAG	_	Not used	
26	KICK	0	Kick pulse output	66	CLVS	_	Not used	
27	TRD	0	Tracking drive output	67	CRC	_	Not used	
28	FOD	0	Focus drive output	68	DEMPH		Not used	
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	_	Not used	
30	FBAL	0	Focus Balance adjust signal output	70	IOSEL	_	pull up	
31	TBAL	0	Tracking Balance adjust signal output	71	TEST	_	pull up	
32	FE	_	Focus error signal input(Analog input)	72	AVDD1	_	Power supply(Digital)	
33	TE	Ι	Tracking error signal input(Analog input)	73	OUT L	0	Lch audio output	
34	RF ENV	Ι	RF envelope signal input(Analog input)	74	AVSS1	_	Connected to GND	
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	0	Rch audio output	
36	OFT	I	Off track signal input(H:off track)	76	RSEL	_	pull up	
37	TRCRS	Ι	Track cross signal input	77	CSEL	_	Connected to GND	
38	RFDET	Ι	RF detect signal input(L:detect)	78	PSEL	_	Connected to GND	
39	BDO	Ι	BDO input pin(L:detect)	79	MSEL	_	Connected to GND	
40	LDON	0	Laser ON signal output(H:on)	80	SSEL	_	Pull up	
-								

■LC72136N (IC2): PLL Frequency synthesizer



2. Block

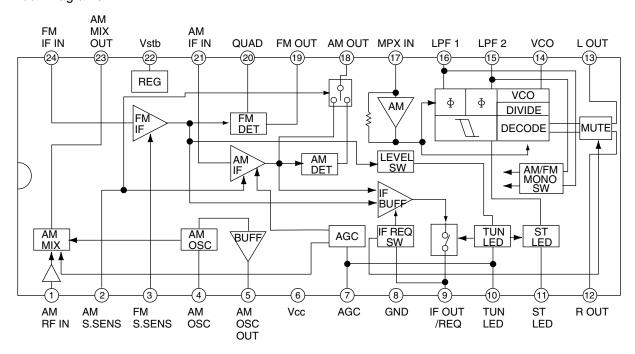


3. Function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	-	IF counter signal input
2	FM/AM	0	LOW:FM mode	13	IFCONT	0	IF signal output
3	CE	Ι	When data output/input for 4pin(input) and 6pin(output): H	14		i	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	_	FM Local OSC signal input
6	DO	0	Data output for Controller	17	VCC	•	Power suplly(VDD=4.5-5.5V)
			Output port				When power ON:Reset circuit move
7	FM/ST/VCO	0	"Low": MW mode	18	PD	0	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	ĀM/FM	0	Open state after the power on reset	19	LPFIN	_	Input for active lowpassfilter of PLL
9	LW	I/O	Input/output port	20	LPFOUT	0	Output for active lowpassfilter of PLL
10	MW	I/O	Input/output port	21	GND	1	Connected to GND
11	SDIN	I/O	Data input/output	22	XT	I	X'tal oscillator(75KHz)

■ TA2057N (IC1): FM/AM IF AMP & Detector

1.Block Diagrams



2.Pin Function

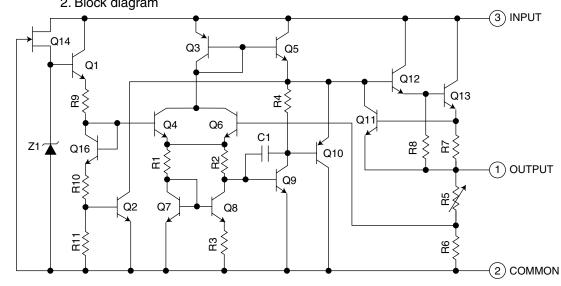
Pin No.	I/O	Symbol	Function	Pin No.	I/O	Symbol	Function		
1	ı	AM RF	AMRF signal input	13	0	Lch OUT	Output Lch		
2		AM S.SENS		14	0	VCO	Voltage controlled terminal		
3		FM S.SENS		15	0	LPF2	When voltage of terminal is MONO		
4	-	AM OSC	AM local oscillation circuit				at "H" and ST at "L"		
5	0	AM OSC OUT	AM local oscillation signal output	16	0	LPF1	When voltage of terminal is AM at		
6	-	VCC	Power supply				"H" and FM at "L"		
7	I	AGC	AGC voltage input terminal	17	I	MPX IN	Multi plex signal input		
8	-	GND	Connect to GND	18	0	AM OUT	AM detection signal output		
9	0	IF OUT	IF REQ signal output to IC2	19	0	FM OUT	FM detection signal output		
10	0	TU IND	Indicator drive output when tuning	20	I	FM QUAD	Bypass to FMIF		
11	0	ST IND	Stereo indicator output	21	I	AM IF IN	Input of AMIF signal		
			"H"mono . "L"stereo	22	-	Vst	Fixed voltage output terminal		
12	0	Rch OUT	Output Rch	23	0	AM MIX OUT	Output terminal for AM mixer		
				24	I	FM IF IN	Input of FMIF signal		

■ KIA78S06P-T (IC702) : Regulator



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2. Block diagram



■ TA8409F-W (IC108) : Bridge driver

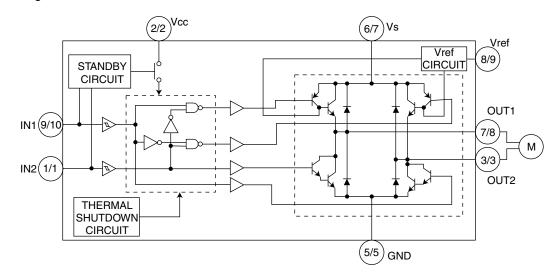
1. Pin layout

□ 10 □ 6 5 E

2. Pin function

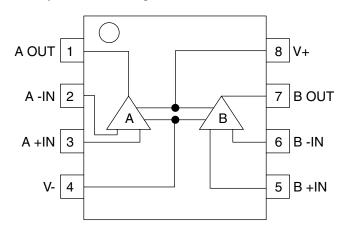
Pin No.	SYMBOL	FUNCTION
1	IN2	INput terminal
2	Vcc	Supply voltage terminal for logic
3	OUT2	Output terminal
4	NC	Non connection
5	GND	GND terminal
6	NC	Non connection
7	Vs	Supply voltage terminal for motor driver
8	OUT1	Output terminal
9	Vref	Reference voltage terminal for control circuit
10	IN1	Input terminal

3. Block diagram

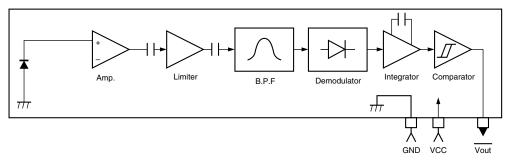


■ BA15218F-W (IC102) : Dual ope. amp. ■NJM4580D-D (IC101) : Dual ope amp.

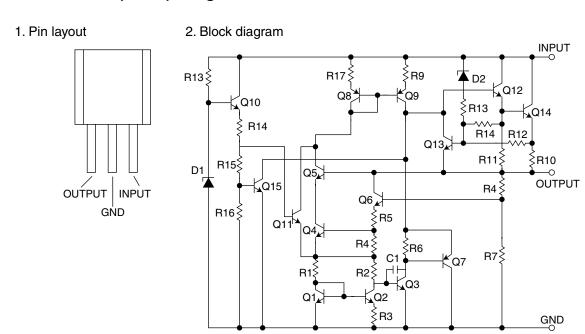
- 1. Pin layout & Block diagram
- OUT1 1 8 Vcc
 IN1 2 7 OUT2
 + IN1 3 + 6 IN2
 VEE 4 + 5 + IN2
- 1. Pin layout & Block diagram



■GP1U271X (IC801) : Receiver for remote



■ UPD78L5J-T (IC191) : Regulator





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