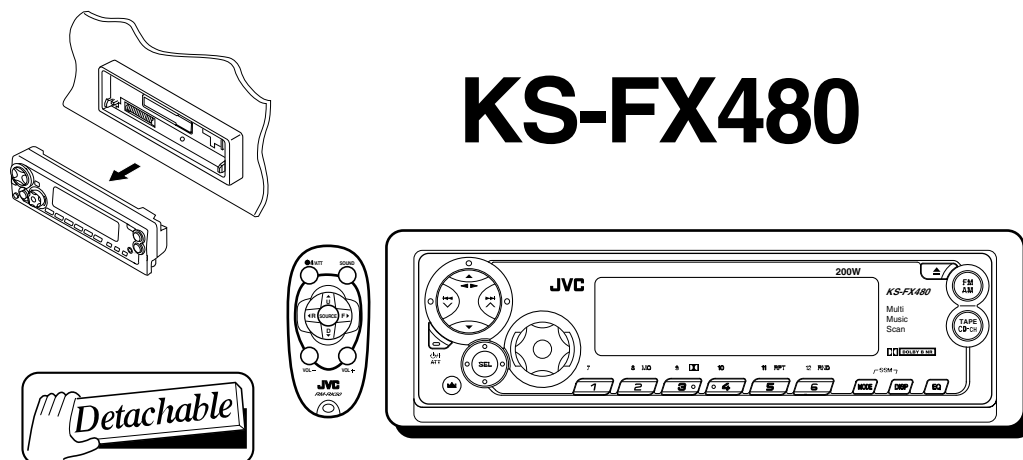


JVC

SERVICE MANUAL

CASSETTE RECEIVER



Area Suffix

J ----- Northern America

Contents

Safety precaution	1- 2
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Safety precaution



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.

Disassembly method

■ Removing the front panel unit

(See Fig.1)

1. Press the release switch and remove the front panel unit in the direction of the arrow.

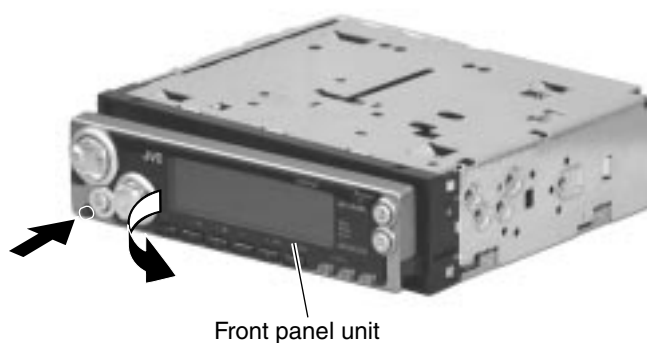


Fig.1

■ Removing the front chassis

(See Fig.2 to 4)

1. Remove the two screws **A** attaching the front chassis.
2. Remove the two screws **B** on each side of the body.
3. Release the two joints **a** and the two joints **b** on the sides. Release the two joints **c** at the bottom and remove the front chassis toward the front.

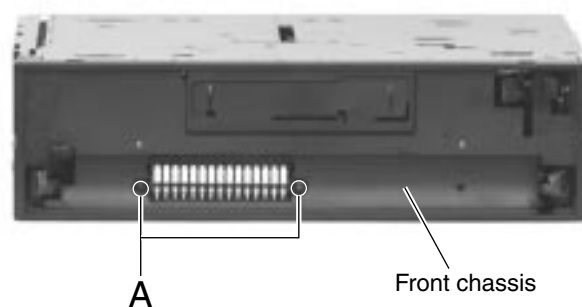


Fig.2

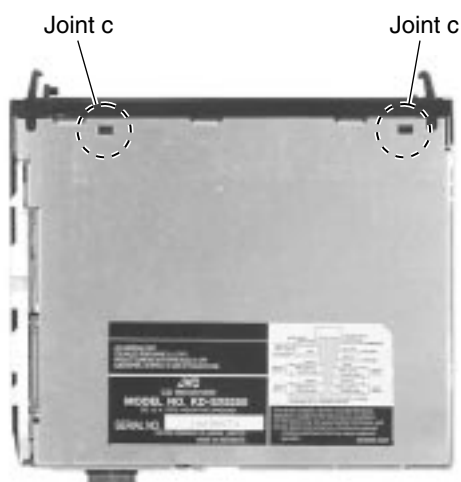


Fig.4

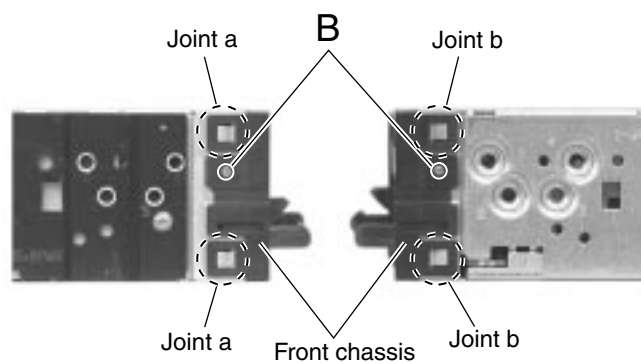


Fig. 3

■ Removing the heat sink (See Fig.5)

1. Remove the four screws **B** attaching the heat sink on the left side of the body, and remove the heat sink.

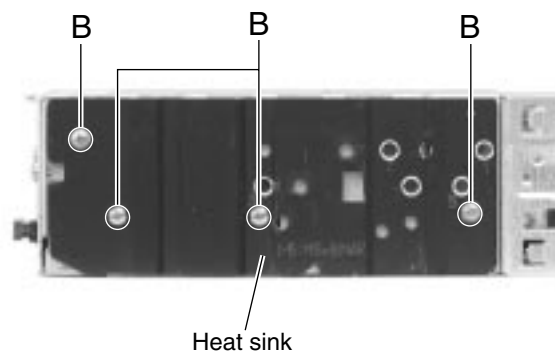


Fig. 5

■ Removing the bottom cover (See Fig.6)

- Prior to performing the following procedure, remove the front chassis and the heat sink.

1. Turn the body upside down.
2. Insert a screwdriver to the two joints **d** and two joints **e** on both sides of the body and the joint **f** on the back of the body, then detach the bottom cover from the body.

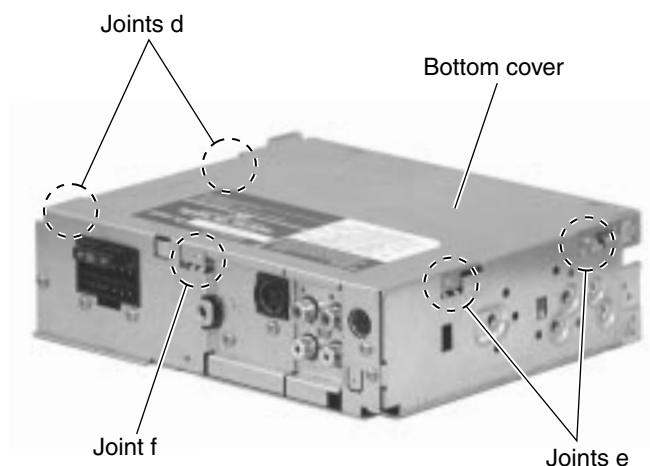


Fig. 6

■ Removing the rear panel (See Fig.7)

- Prior to performing the following procedure, remove the front chassis, the heat sink and bottom cover.

1. Remove the eight screws **C** attaching the rear panel and one screw **D** attaching the pine jack on the back of the body.

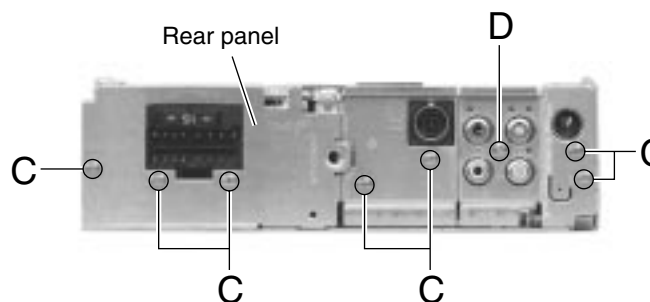


Fig. 7

■ Removing the main amplifier board assembly (See Fig.8)

- Prior to performing the following procedure, remove the front chassis, the heat sink, bottom cover and the rear panel.

1. Remove the two screws **E** attaching the main amplifier board assembly on the top cover.
2. Disconnect connector CP701 on the main amplifier board assembly from the cassette mechanism assembly.

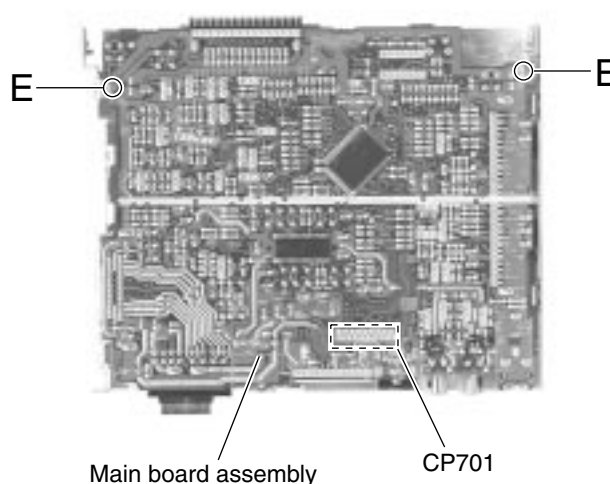


Fig. 8

■ Removing the cassette mechanism assembly (See Fig.9)

- Prior to performing the following procedure, remove the front chassis, the heat sink, bottom cover and the main amplifier board assembly.

1. Remove the four screws **F** attaching the cassette mechanism assembly from the top cover.

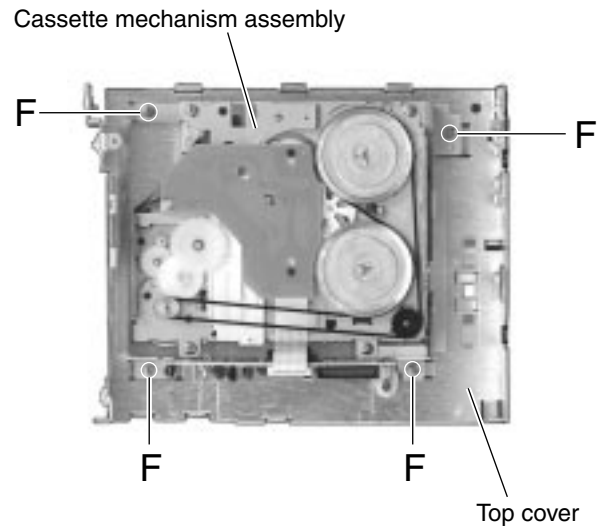


Fig. 9

■ Removing the (LCD & key) control switch board (See Fig.10 to 12)

- Prior to performing the following procedure, remove the front panel assembly.

1. Remove the four screws **G** attaching the rear cover on the back of the front panel assembly.
2. Unjoint the nine joints **g** with the front panel and the rear cover.
3. Remove the control switch board on the back of the front panel.



Fig. 10

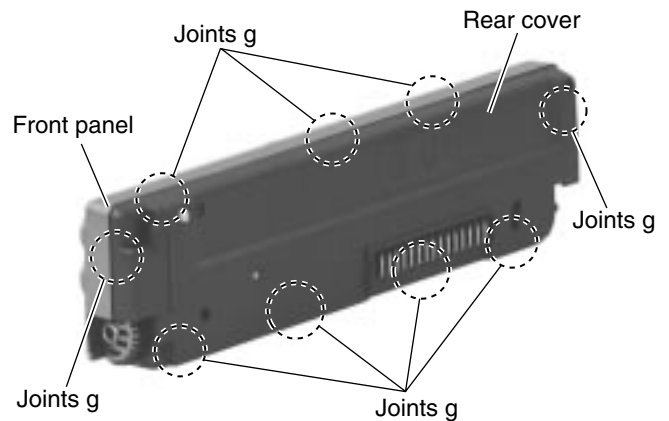


Fig. 11

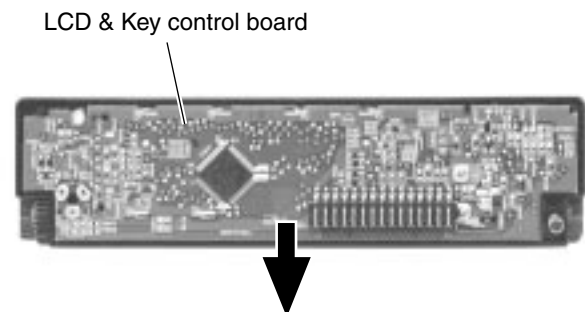


Fig. 12

REFERENCE: Prior to performing the following procedures, turn the mode gear on the bottom of the body until the respective part comes to the EJECT position (Refer to Fig.1).

■ Removing the reinforce bracket (See Fig.1 and 2)

1. Remove the screw **A** attaching the reinforce bracket on the bottom of the body.
2. To release joint **a**, turn and detach the reinforce bracket from the side bracket assembly as shown in Fig.2

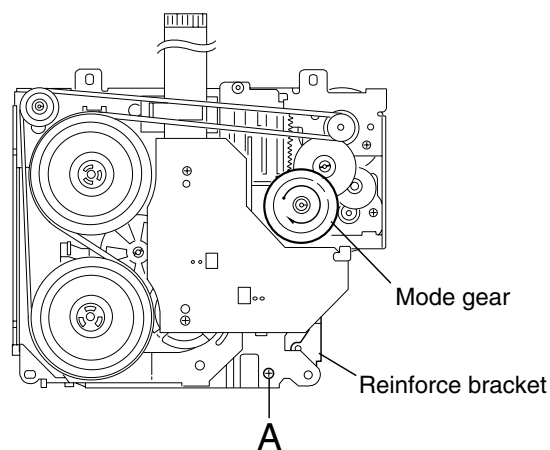


Fig.1

■ Removing the cassette guide (See Fig.3)

1. Turn the mode gear to set to RVS play or subsequent mode.
2. Remove the cassette guide from the main chassis while releasing each two joint tabs **b** in the direction of the arrow.

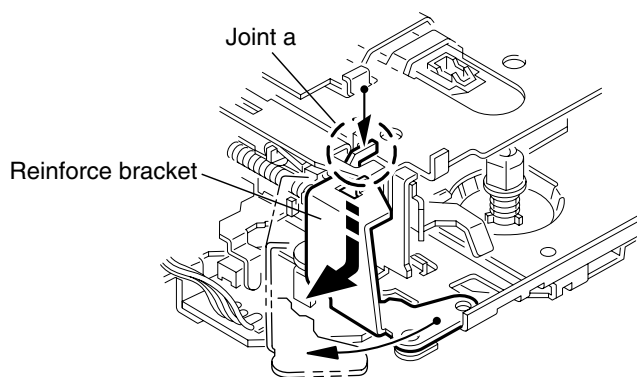


Fig.2

■ Removing the head board (See Fig.4)

1. Remove the screw **B** on the upper side. Unsolder the wires on the under side of the head board, if necessary.

REFERENCE: When reassembling, twist the wires by turning the head board twice remarked **c** and pass through the notch **d** as shown in Fig.4.

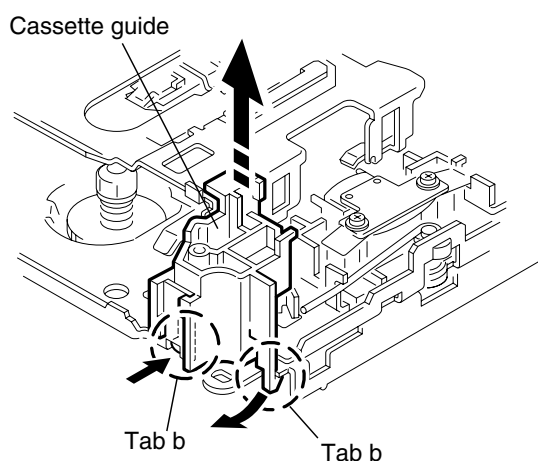


Fig.3

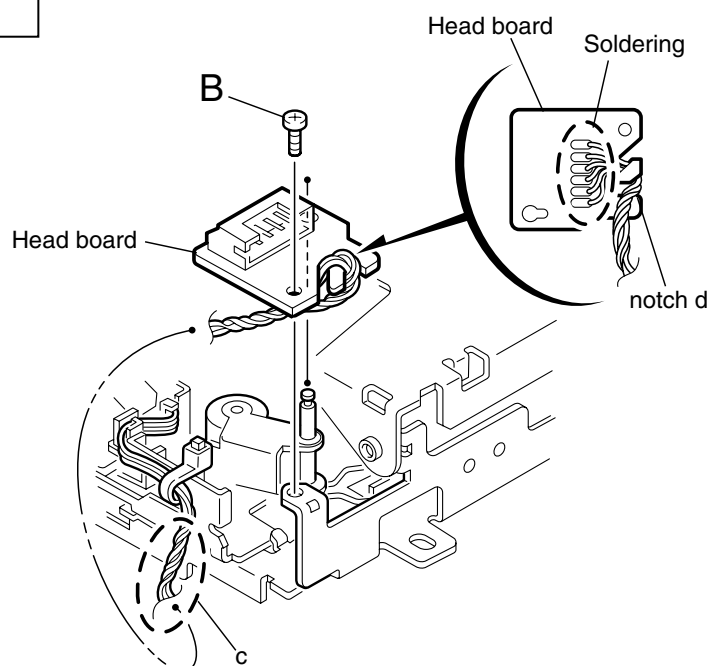


Fig.4

■ Removing the load arm (See Fig.5)

1. Remove the E-washer attaching the load arm.
2. Move the load arm in the direction of the arrow and release the joint **e** on the cassette catch.

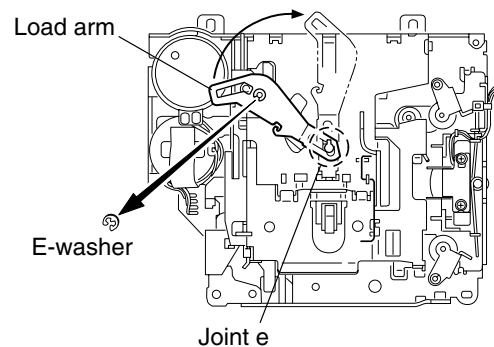


Fig.5

■ Removing the cassette hanger assembly / cassette holder (See Fig.6 to 9)

1. Check the mode is set to EJECT. Push down the front part of the cassette holder and move in the direction of the arrow to release the joint **f**.
2. Move the rear part of the cassette hanger assembly in the direction of the arrow to release it from the two joint bosses **g**.
3. Release the holder stabilizer spring from the hooks **h** and **i**, then pull out from the cassette hanger assembly.
4. Bring up the rear side of the cassette hanger assembly to release the joint **j** and **k**.
5. Pull out the cassette catch from the cassette hanger assembly.

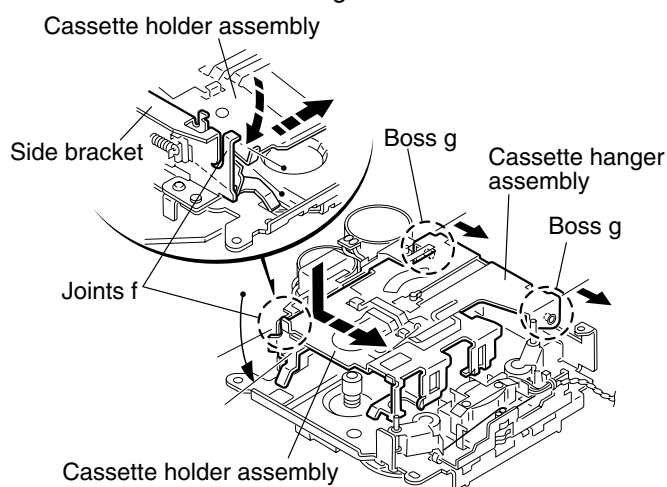


Fig.6

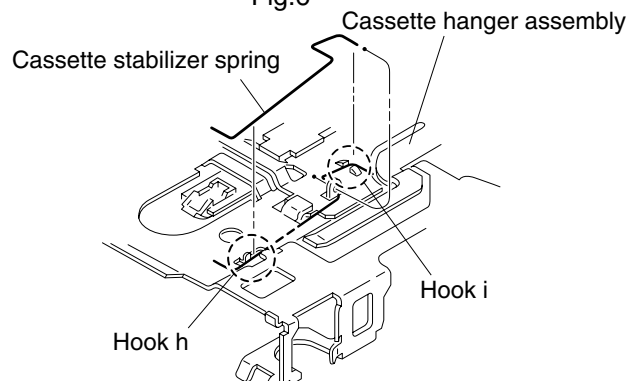


Fig.7

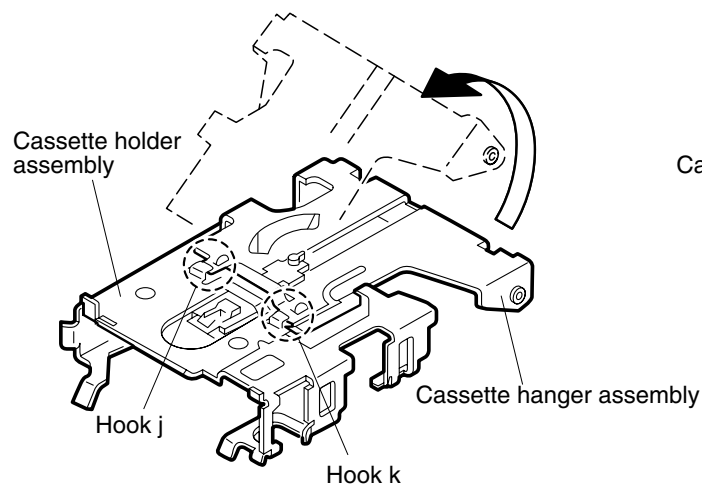


Fig.8

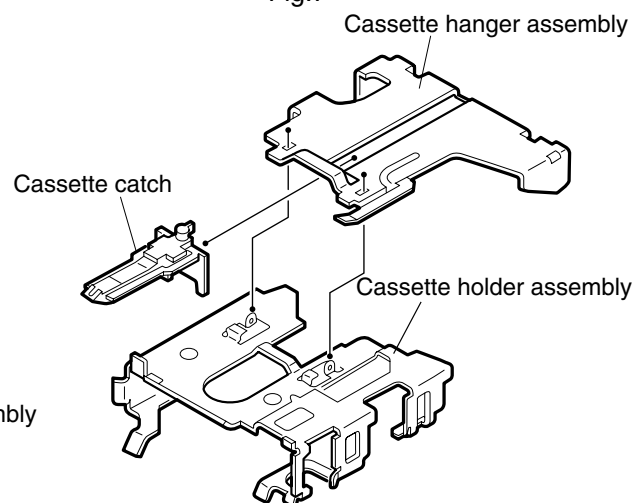


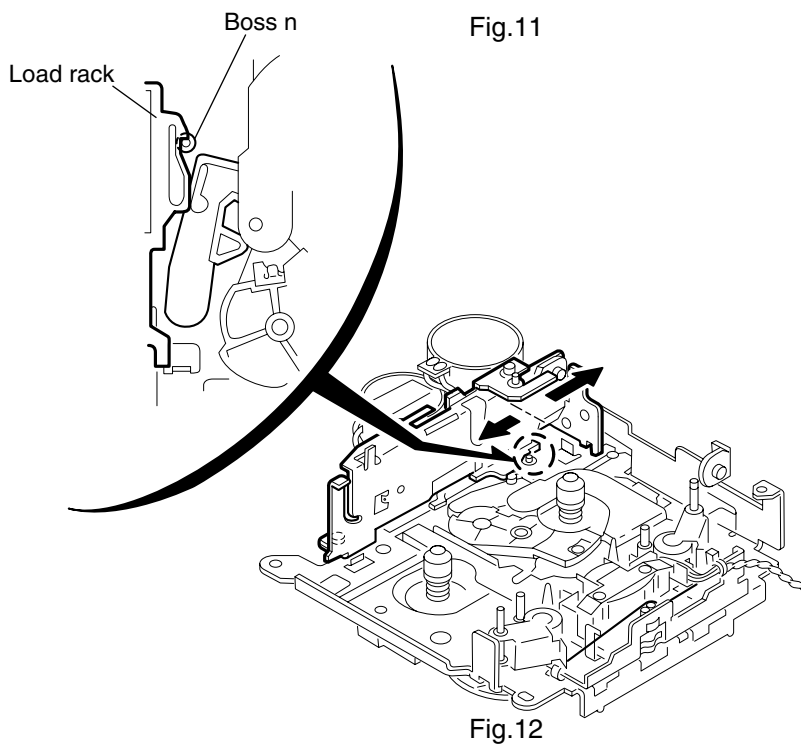
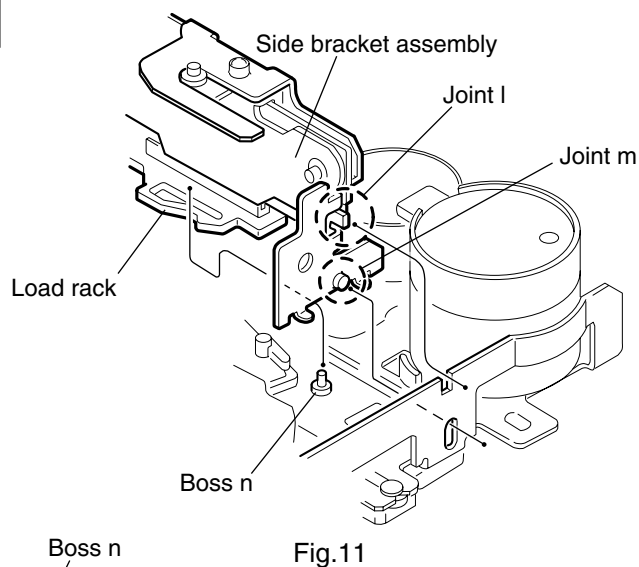
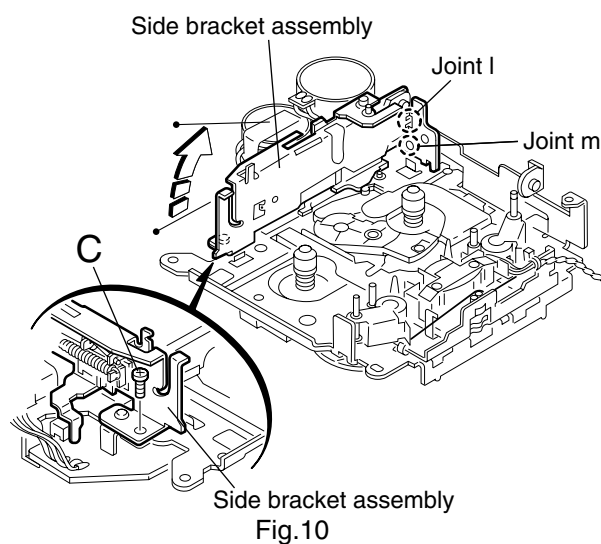
Fig.9

■ Removing the side bracket assembly (See Fig.10 to 12)

1. Remove the screw **C** attaching the side bracket assembly.
2. Detach the front side of the side bracket assembly upward and pull out forward to release the joint **l** and **m** in the rear.

CAUTION: When reassembling, make sure that the boss **n** of the main chassis is set in the notch of the load rack under the side bracket assembly. Do not reattach the load rack on the boss **n**.

CAUTION: After reattaching the side bracket assembly, confirm operation.



■ Removing the pinch arm (F) assembly (See Fig.13 and 14)

1. Remove the polywasher and pull out the pinch arm (F) assembly.
2. Remove the compulsion spring.

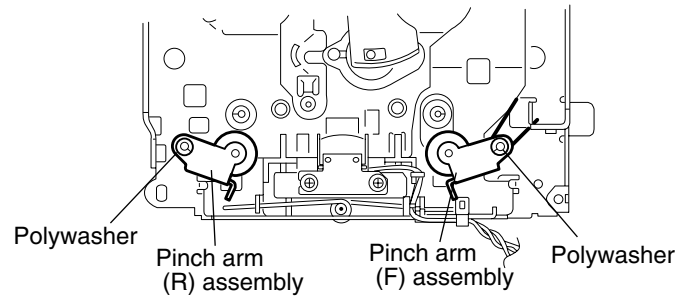


Fig.13

■ Removing the pinch arm (R) assembly (See Fig.13 and 15)

1. Remove the polywasher and pull out the pinch arm (R) assembly.

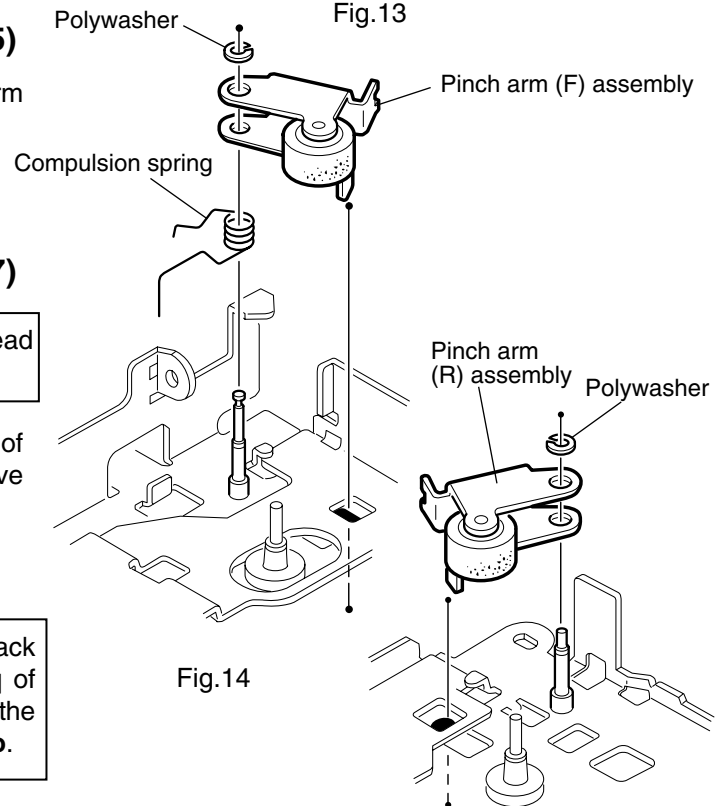


Fig.14

Fig.15

■ Removing the slide chassis assembly (See Fig.16 and 17)

REFERENCE: It is not necessary to remove the head and the tape guide.

1. Move the slide chassis assembly in the direction of the arrow to release the two joints **o** and remove from the main chassis.
2. Remove the rack link.

CAUTION: When reassembling, first reattach the rack link, and next fit the boss **p** and hook **q** of the slide chassis assembly to the hole of the main chassis, and engage the two joints **o**.

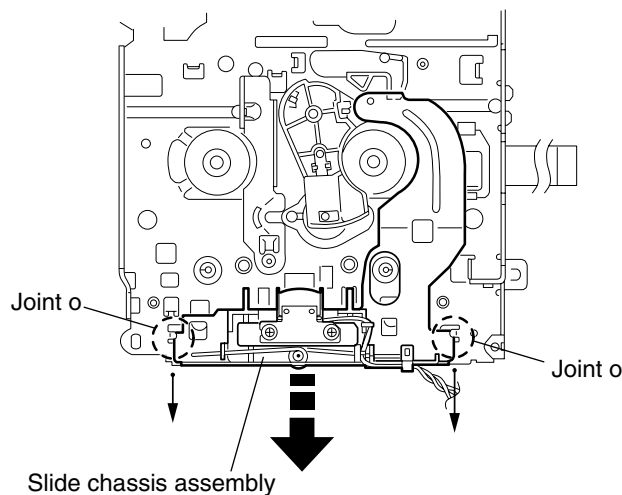


Fig.16

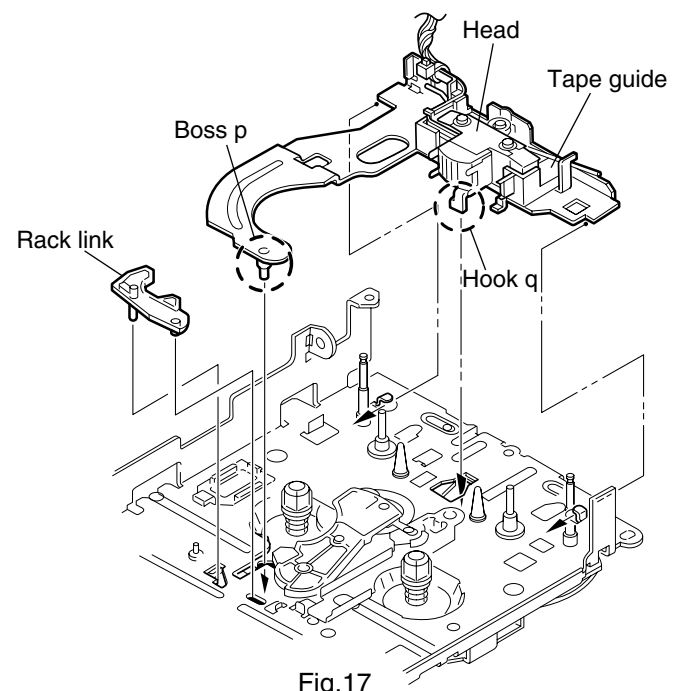


Fig.17

■ Removing the head / tape guide (See Fig.18 and 19)

REFERENCE: It is not necessary to remove the slide chassis assembly.

1. Remove the band attaching the wire to the head.
2. Remove the two screws **D**, the head and the head support spring.
3. Remove the pinch arm spring from the tape guide.
4. Remove the tape guide and the pinch spring arm.

CAUTION: When reattaching the pinch arm spring, set both end of it to the pinch spring arm (remarked r).

CAUTION: When reattaching the head, set the wires into the groove of the tape guide (Fig.18).

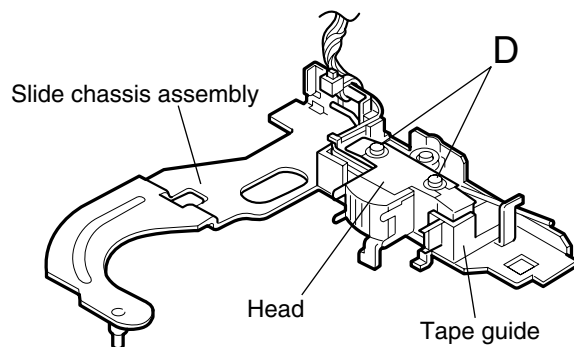


Fig.18

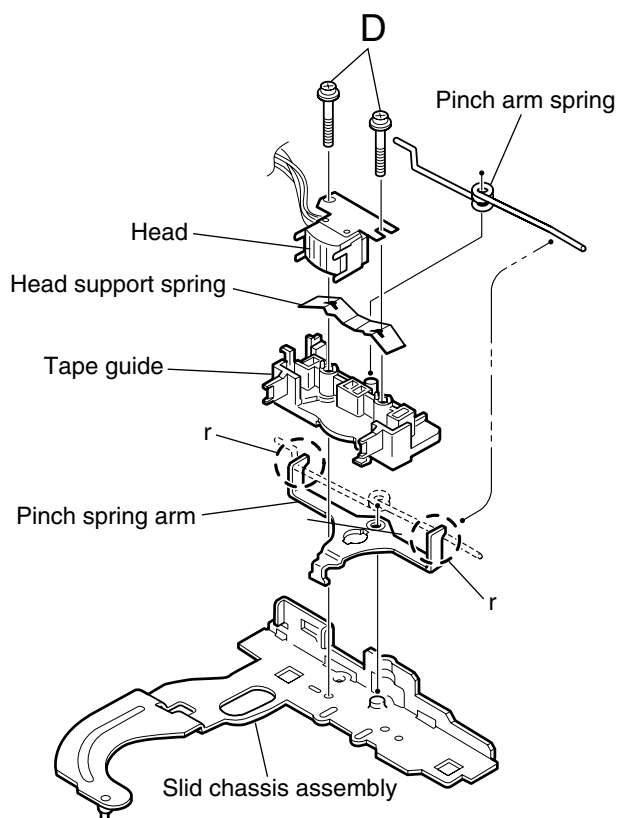


Fig.19

■ Removing the flywheel assembly (F) & (R) (See Fig.20 and 21)

REFERENCE: It is not necessary to remove the slide chassis assembly.

1. Remove the belt at the bottom.
2. Remove the two polywashers on the upper side.
3. Pull out each flywheel assembly downward.

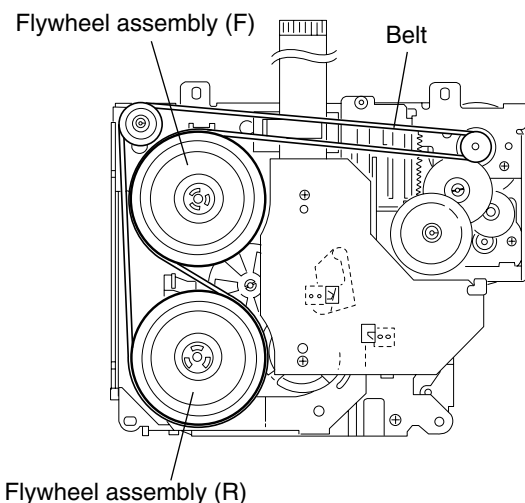


Fig.20

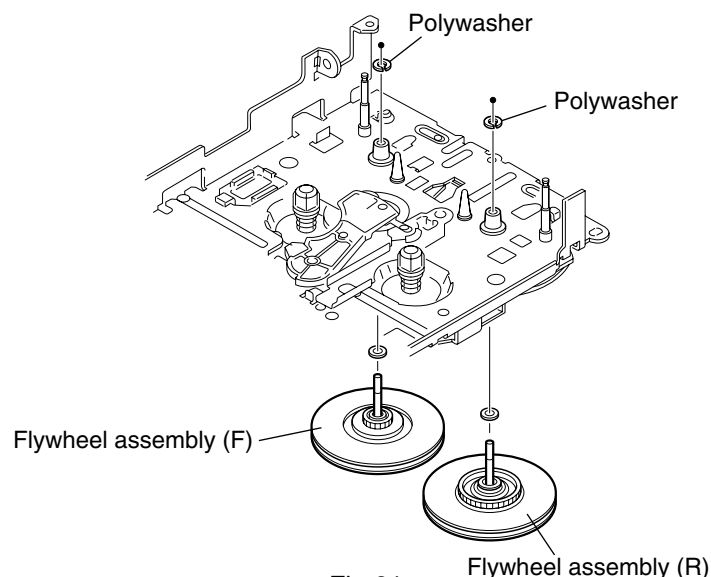


Fig.21

■ Disassembling the flywheel assembly (F) (See Fig.22 and 23)

1. Push and turn counterclockwise the spring holder (F) to release the three joints **s** on the bottom of the flywheel.
2. The spring holder (F), the TU spring and the friction gear play come off.
3. Remove the polywasher and felt.

■ Disassembling the flywheel assembly (R) (See Fig.22 and 24)

1. Push and turn clockwise the spring holder (R) to release the three joints **t** on the bottom of the flywheel.
2. The spring holder (R), the FF spring and the friction gear FF come off.
3. Remove the polywasher and the felt.

■ Removing the reel board (See Fig.25 and 26)

1. Remove the two screws **E** attaching the reel board.
2. Move the reel board in the direction of the arrow to release the joint **u**.
3. Unsolder the wires if necessary.

CAUTION: When reattaching, confirm operation of the MODE switch and the ST-BY switch.

The mode position between EJECT and ST-BY is optimum for reattaching.

Connect the card wire extending from the reel board to the FFC pad before reattaching the reel board.

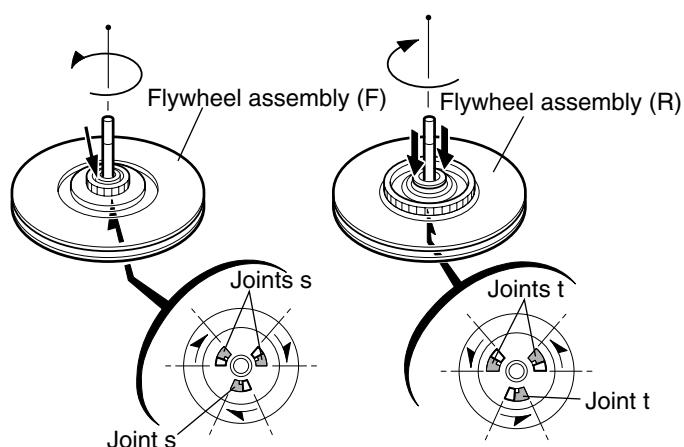


Fig.22

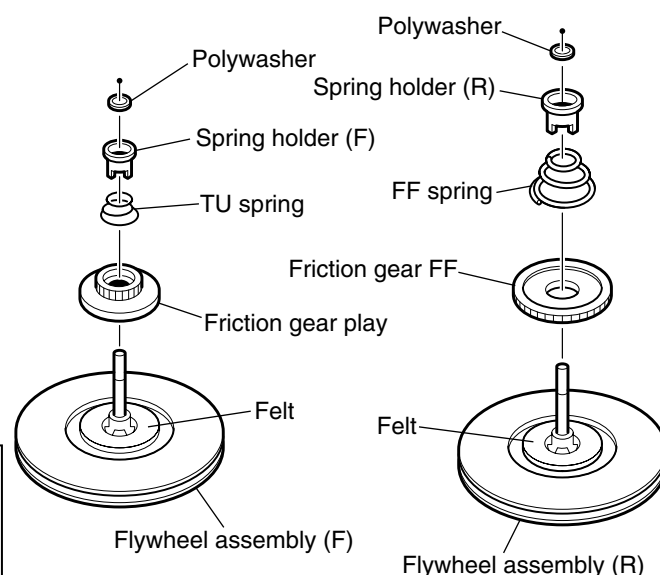


Fig.23

Fig.24

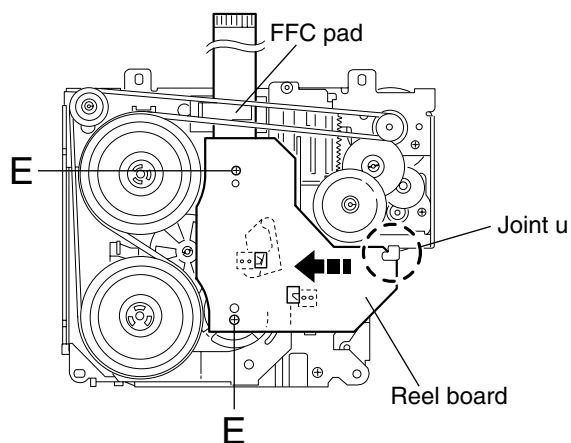


Fig.25

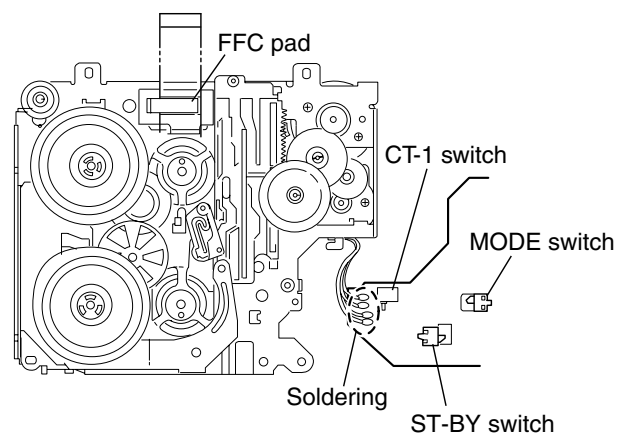
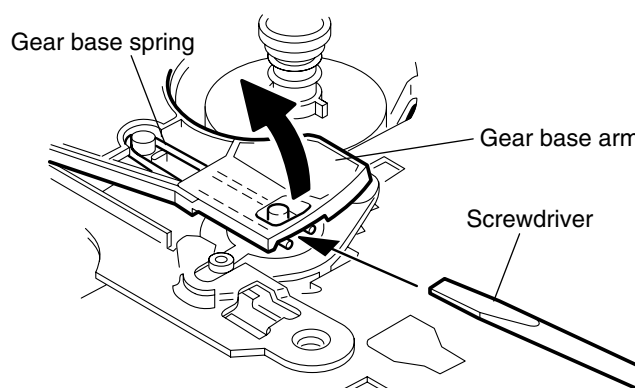
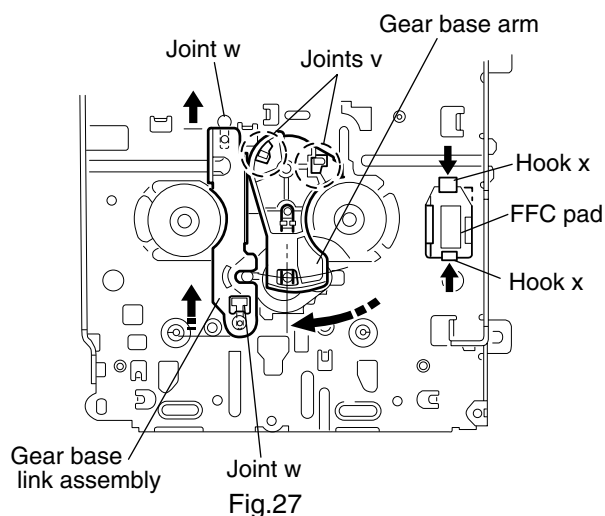


Fig.26

■ Removing the gear base arm / gear base link assembly (See Fig.27 to 29)

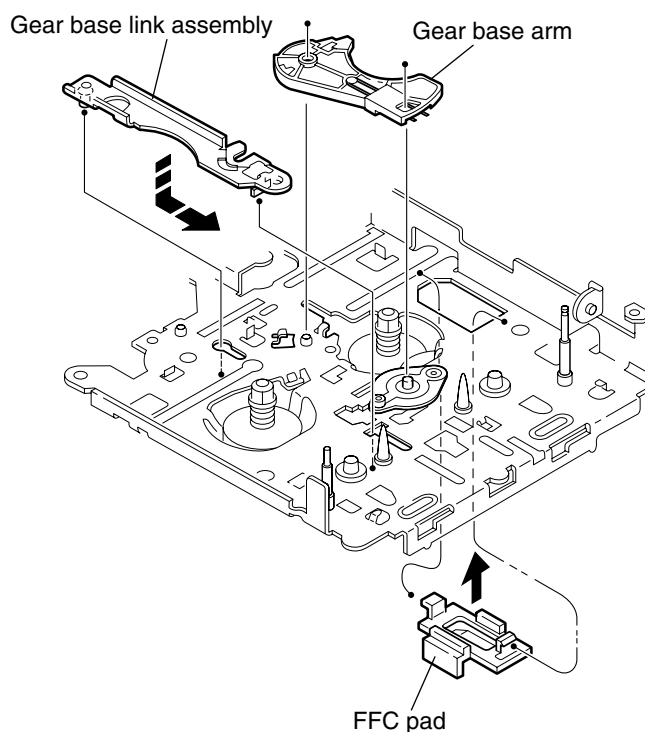
1. Move the gear base arm in the direction of the arrow.
2. Insert a slotted screwdriver to the gear base spring under the gear base arm, and release the gear base arm upward from the boss on the gear base assembly.
3. Remove the gear base arm from the main chassis while releasing the two joints **v**.
4. Move the gear base link assembly in the direction of the arrow to release the two joints **w**.

REFERENCE: When reattaching the gear base arm, make sure that the boss on the gear base assembly is inside the gear base spring.



■ Removing the FFC pad (See Fig.27 and 29)

1. Push each joint hook **x** of the FFC pad and remove toward the bottom.



■ Removing the mode gear

(See Fig.30 and 33)

1. Remove the polywasher on the bottom and pull out the mode gear.

■ Removing the mode switch actuator

(See Fig.30, 31 and 33)

1. Pull out the mode switch actuator at the bottom.

REFERENCE: When reattaching the mode switch actuator to the main chassis, make sure to set on the shaft and insert **y** into the slot **z**.

■ Removing the direction link / direction plate

(See Fig.31 to 33)

1. Remove the polywasher attaching the direction link.
2. Bring up the direction link to release the three joints **a'**, **b'** and **c'** at a time.
3. Move the direction plate in the direction of the arrow to release the two joints **d'**.

REFERENCE: When reattaching the direction plate, engage the two joints **d'** and move in the direction of the arrow (See Fig.32).

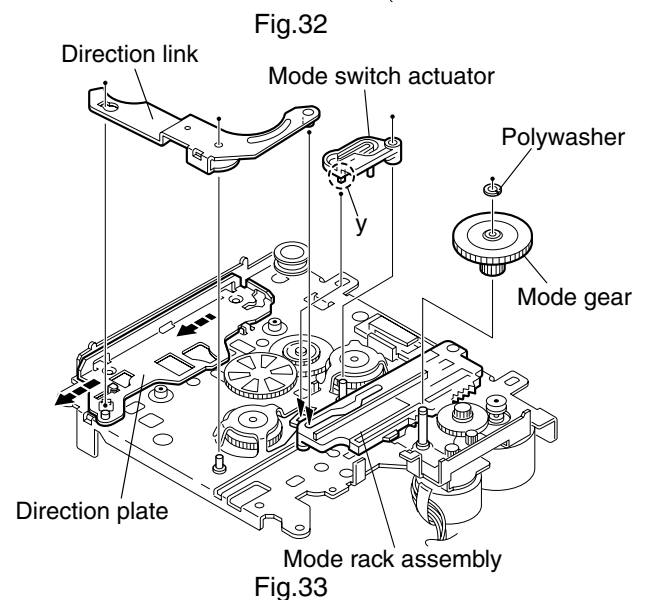
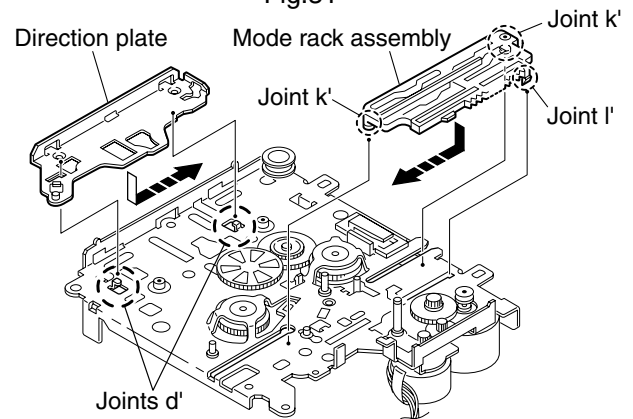
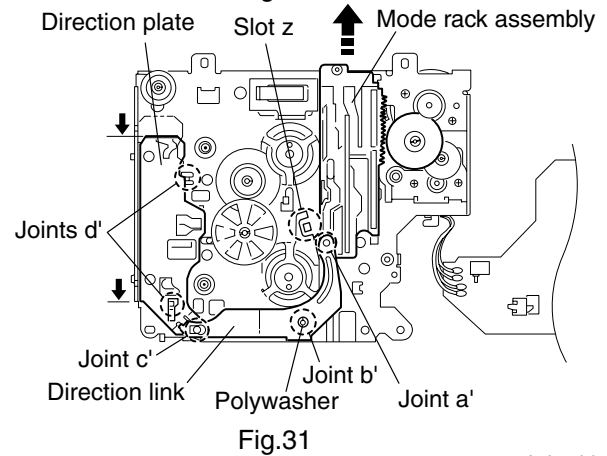
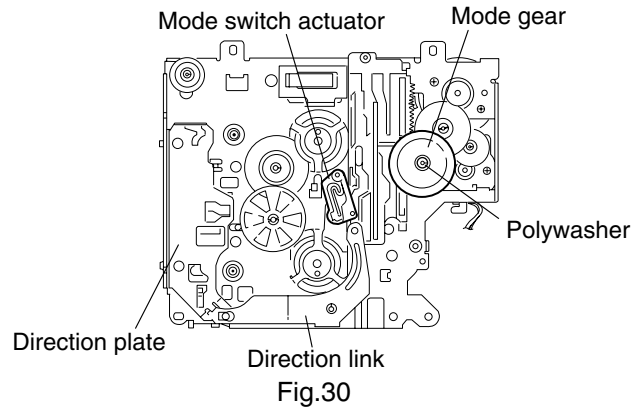
REFERENCE: When reattaching the direction link, move the direction plate in the direction of the arrow and engage the three joint **a'**, **b'** and **c'** at a time (See Fig.33).

■ Removing the mode rack assembly

(See Fig.31 and 32)

1. Move the mode rack assembly in the direction of the arrow to release the two joints **k'** and the joint **l'**.

REFERENCE: When reattaching, set the two **k'** on the bottom of the mode rack assembly into the slots of the main chassis and move in the direction of the arrow (See Fig.32).



■ Removing the gear base assembly / take up gear / reflector gear (See Fig.34 to 36)

1. Push in the pin **e'** of the gear base assembly on the upper side of the body and move the reflector gear toward the bottom, then pull out.
2. Remove the polywasher on the bottom and pull out the take up gear.
3. Move the gear base assembly in the direction of the arrow to release it from the two slots **f'** of the main chassis.

REFERENCE: The parts are damaged when removed.
Please replace with new ones.

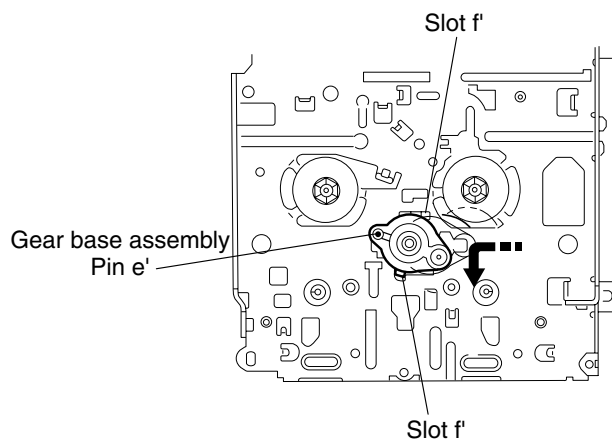


Fig.34

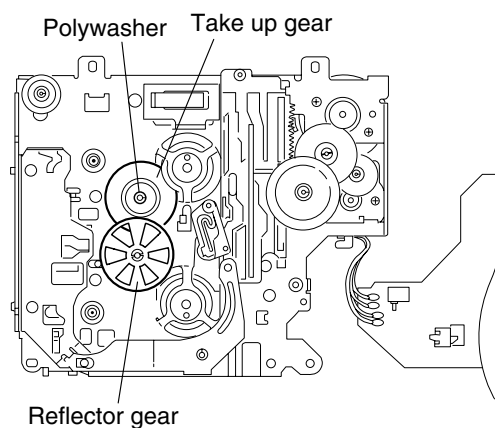


Fig.35

■ Removing the reel driver / reel spindle (See Fig.36)

1. Draw out the reel driver from the shaft on the main chassis and remove the reel driver spring and the reel spindle respectively.

CAUTION: The reel driver is damaged when removed. Please replace with a new one.

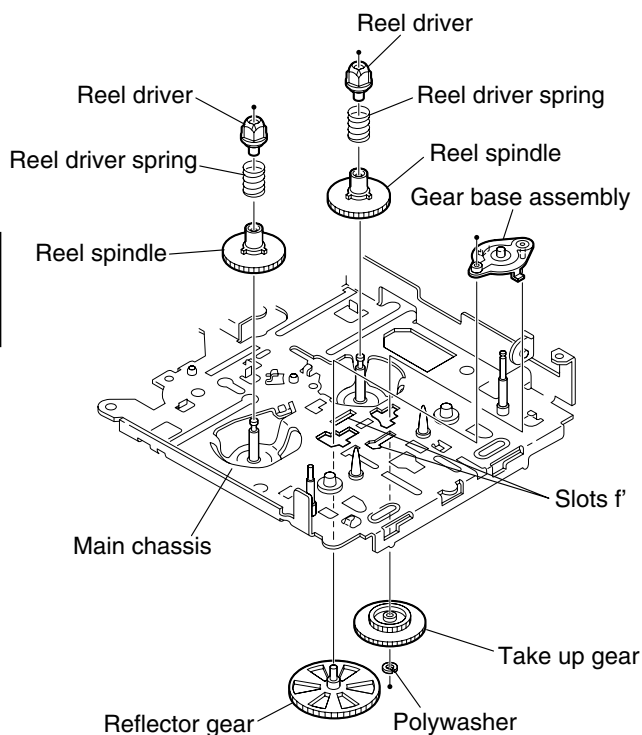


Fig.36

■ Removing the side bracket assembly (See Fig.37 to 41)

1. Remove the eject cam plate spring.
2. Push the joint **g'** through the slot to remove the load rack downward.
3. Move the eject cam limiter in the direction of the arrow to release it from the boss **h'** of the side bracket assembly and from the two joints **i'**.
4. Move the eject cam plate in the direction of the arrow to release the joint **j'**.

CAUTION: When reassembling, confirm operation of each part before reattaching the eject cam plate spring.

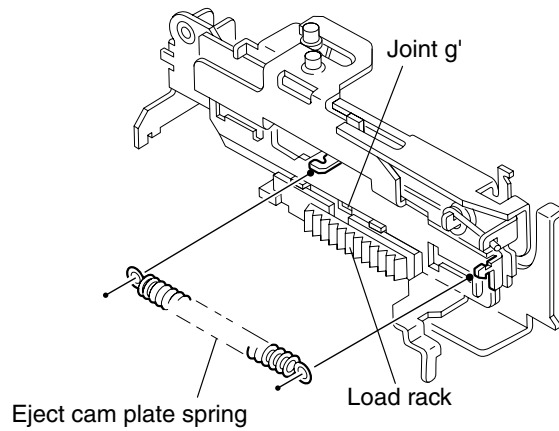


Fig.37

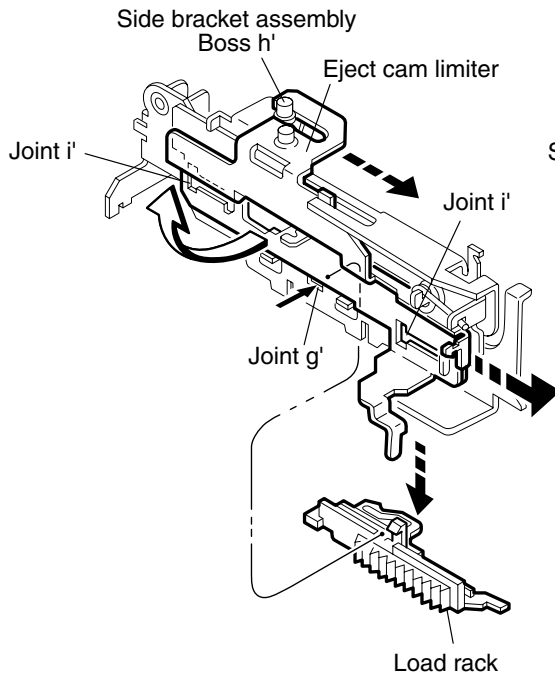


Fig.38

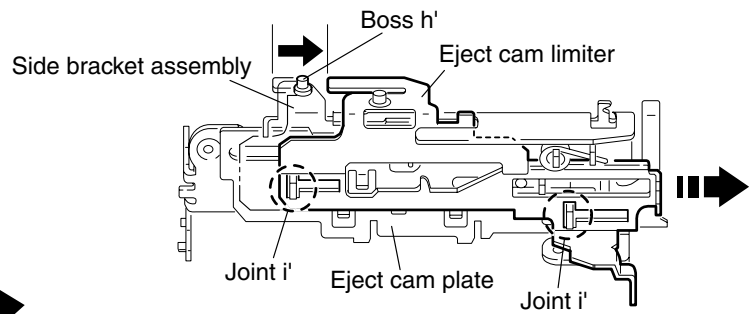


Fig.39

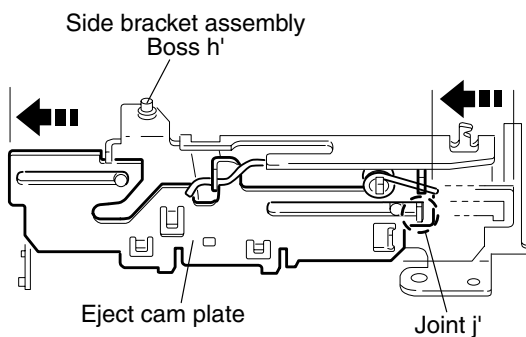


Fig.40

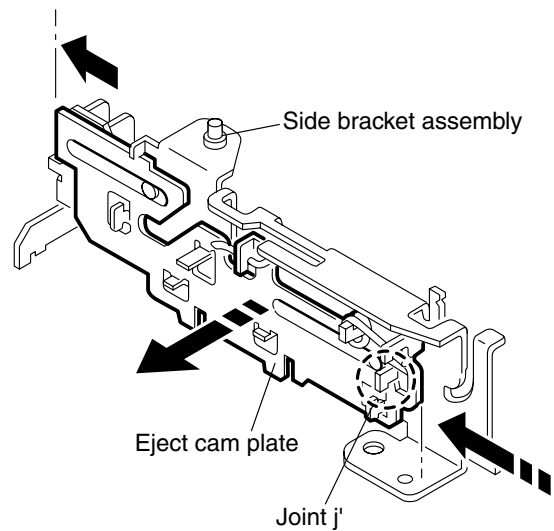


Fig.41

■ Removing the main motor assembly / sub motor assembly (See Fig.42 to 44)

1. Remove the belt at the bottom.
2. Remove the polywasher and pull out the mode gear.
3. Pull out the reduction gear (B).
4. Remove the polywasher and pull out the reduction gear (A).
5. Remove the two screws **F** attaching the main motor assembly.
6. Remove the two screws **G** attaching the sub motor assembly.
7. Unsolder the wires on the reel board if necessary.

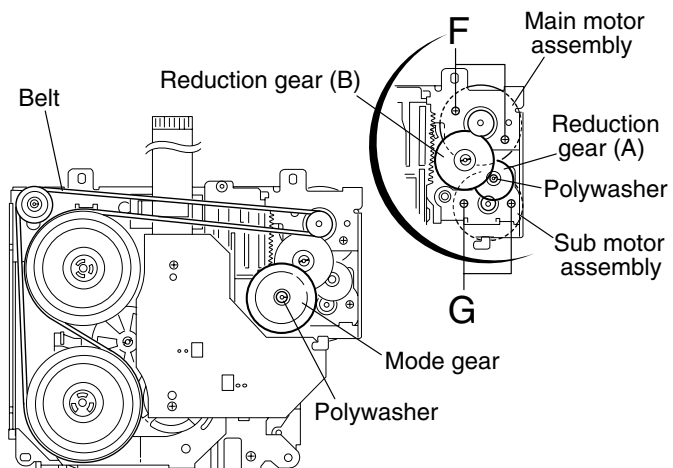


Fig.42

CAUTION: When reassembling, adjust the length of the wires extending from the sub motor assembly by attaching them to the side of the sub motor assembly with the wires extending from the main motor assembly using a spacer.

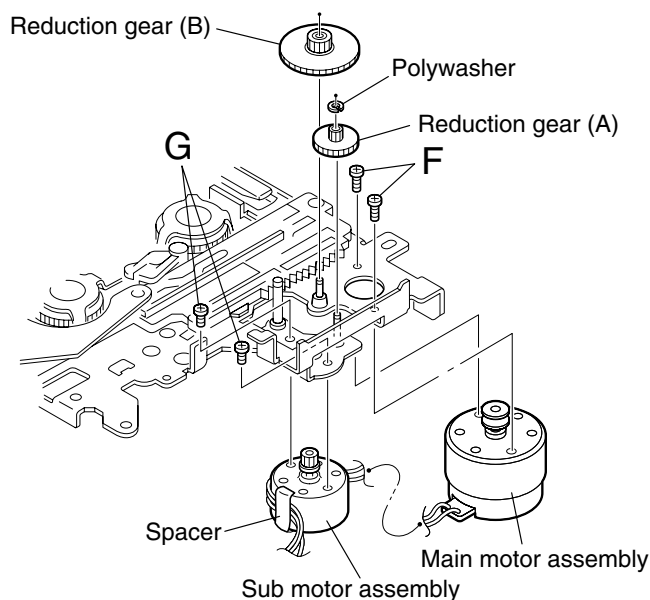


Fig.43

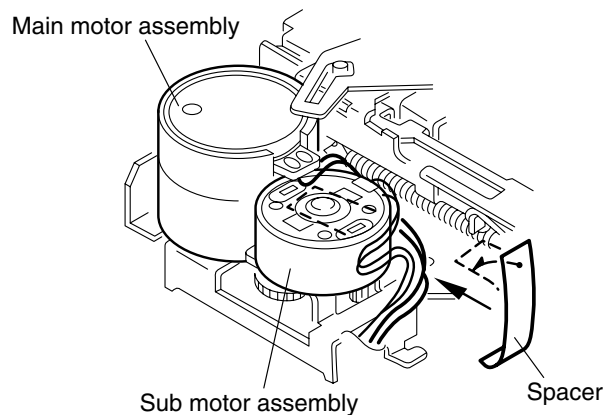


Fig.44

Adjustment method

■ Test Instruments required for adjustment

- 1.Digital oscilloscope(100MHz)
- 2.Frequency Counter meter
- 3.Electric voltmeter
- 4.Wow & flutter meter
- 5.Test Tapes

VT724 ----- for DOLBY level measurement
 VT739 ----- For playback frequency measurement
 VT712 --- For wow flutter & tape speed measurement
 VT703 ----- For head azimuth measurement
 6.Torque gauge ----- Cassette type for CTG-N
 (mechanism adjustment)

■ Measuring conditions(Amplifier section)

Power supply voltage ----- DC14.4V(10.5~16V)
 Load impedance ----- 4Ω (2Speakers connection)
 Line out ----- $20k\Omega$

■ Standard volume position

Balance and Bass,Treble volume .Fader

:Center(Indication"0")

Loudness,Dolby NR,Sound,Cruise:Off

Volume position is about 2V at speaker output with
 following conditions.Playback the test tape VT721.

AM mode 999kHz/62dB,INT/400Hz,30%
 modulation signal on receiving.

FM mono mode 97.9MHz/66dB,INT/400Hz,22.5kHz
 deviation pilot off mono.

FM stereo mode 1kHz,67.5kHz dev. pilot7.5kHz dev.

Output level 0dB($1\mu V$,50 Ω /open terminal).

■ Frequency Range

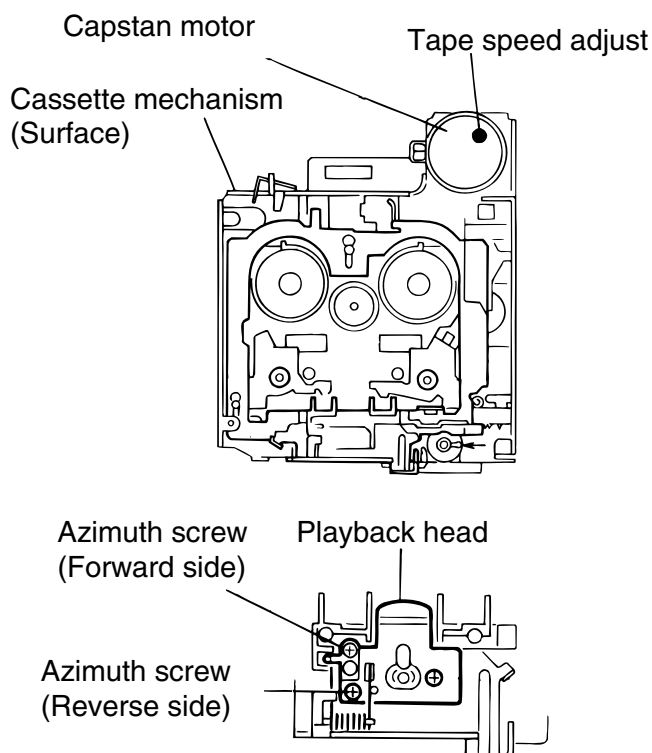
FM : 87.5 MHz to 107.9 MHz

AM : 530 kHz to 1710 kHz

DUMMY LOAD

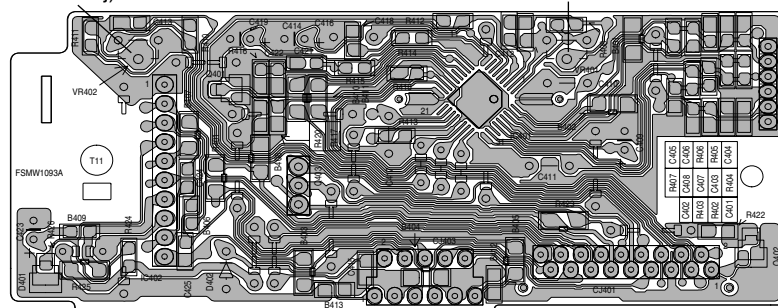
Exclusive dummy load should be used for AM and FM dummy load,there is a loss of 6dB between SSG output and antenna input. The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

■ Arrangement of Adjusting Cassette Mechanism Section



■ Arrangement of adjusting

Head amplifier board section (Reverse side)

VR402:Rch
(Dolby NR level adj)VR401:Rch
(Dolby NR Frequency response adj)

■ Information for using a car audio service jig

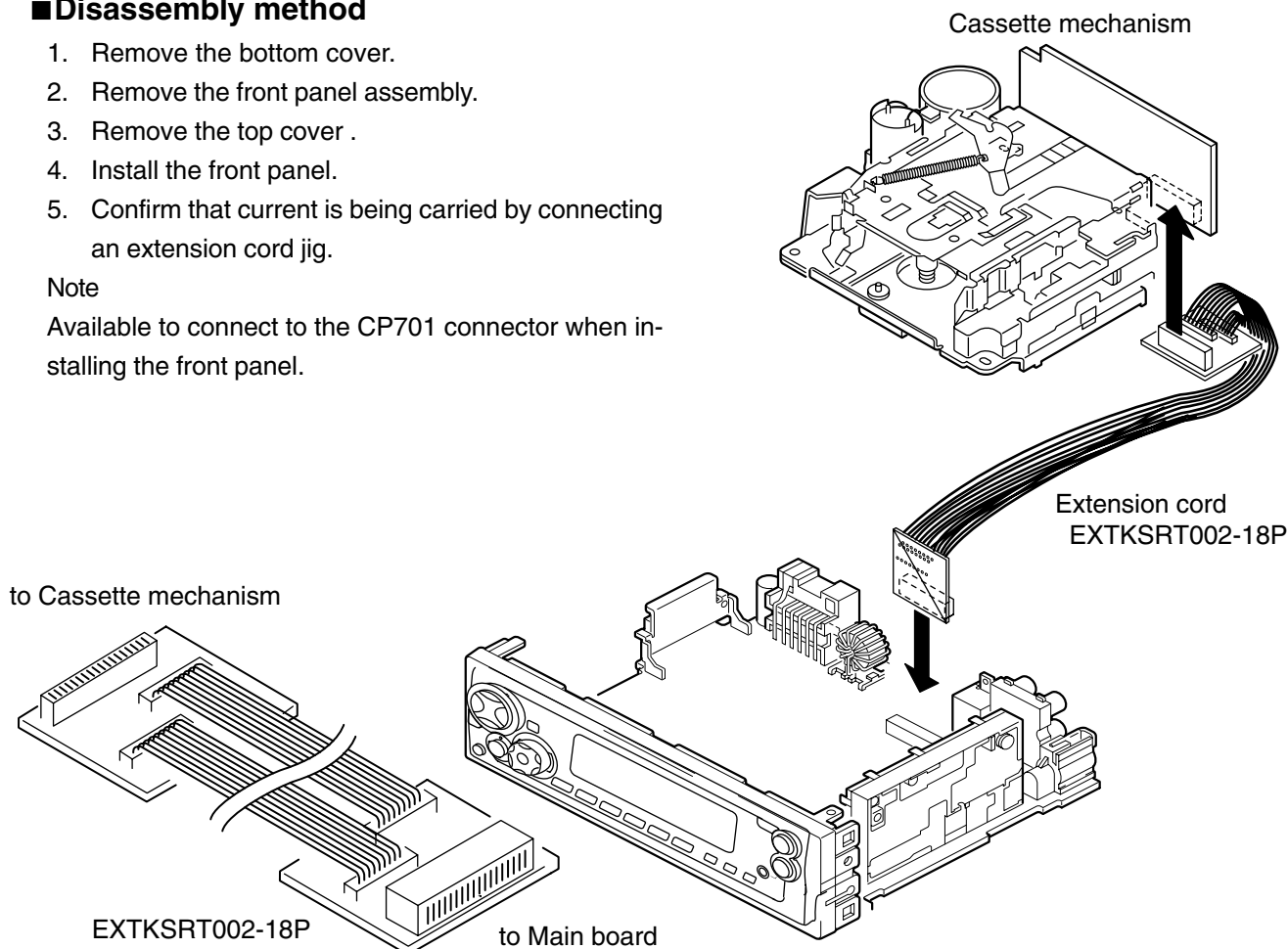
1. We're advancing efforts to make our extension cords common for all car audio products.
Please use this type of extension cord as follows.
2. As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
3. Extension cord : EXTKSRT002-18P (18 pin extension cord) For connection between mechanism assembly and main board assembly.
Check for mechanism driving section such as motor ,etc..

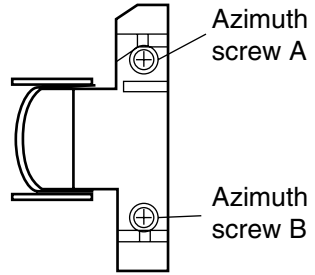
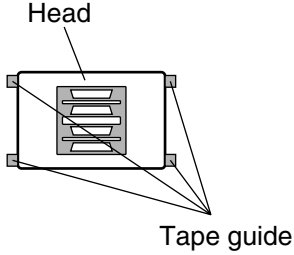
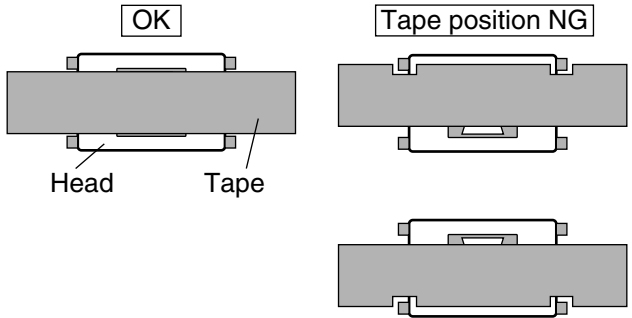
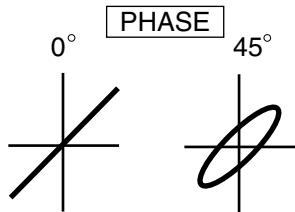
■ Disassembly method

1. Remove the bottom cover.
2. Remove the front panel assembly.
3. Remove the top cover .
4. Install the front panel.
5. Confirm that current is being carried by connecting an extension cord ijq.

Note

Available to connect to the CP701 connector when installing the front panel.

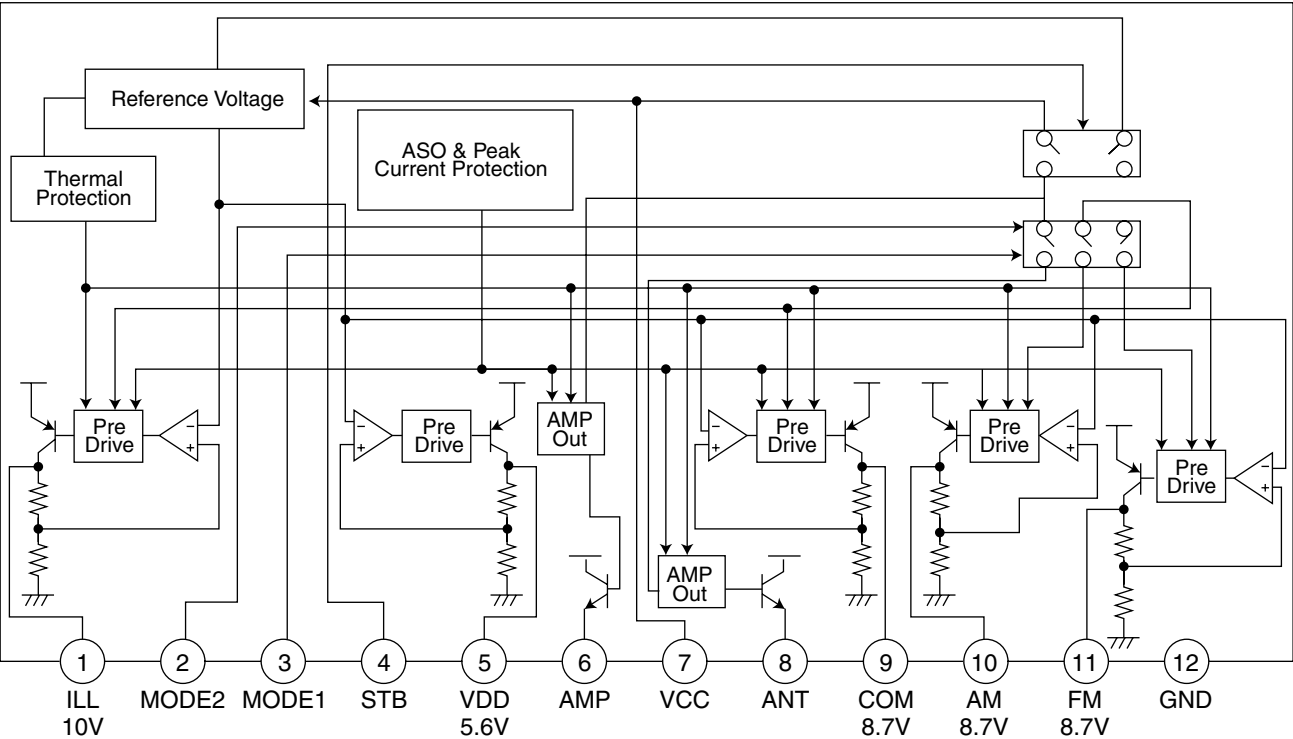


Item	Adjustment and check method	Adjust	Spec
1. Tape position	a) Playback at FWD side, use the mirror tape and adjust azimuth screw A and B, check the tape position at tape guide position of the head. b) Playback at REV side, use the mirror tape and adjust azimuth screw A and B, check the tape position at tape guide position of the head. c) Playback at FWD and REV both side, check the tape position at tape guide position at the head.	 <p>Azimuth screw A</p> <p>Azimuth screw B</p>	
2. Head azimuth adjust and check	a) Playback at FWD side, adjust azimuth screw A to make peak position of Lch /Rch. * Oscilloscope wave forme standard is 45 degrees. b) Playback at REV side, adjust azimuth screw B to make peak position of Lch/Rch. * Oscilloscope wave forme standard si 45 degrees. c) Check the level difference of FWD side and REV side less than 3dB by VTVM. d) After operation check, Lch/Rch azimuth output level difference is less than 1 dB at adjustment level.	 <p>Head</p> <p>Tape guide</p>  <p>OK</p> <p>Tape position NG</p> <p>Head</p> <p>Tape</p>  <p>0°</p> <p>PHASE</p> <p>45°</p>	
3. Tape speed WOW & Flutter	a) Check the frequency counter and wow flutter meter are 2940~3090Hz(FWD/REV), less than 0.35%(RMS). b) If tape speed is not clear the specification, adjust the v.resistor inside of motor.	Internal v.resistor	Tape speed 2940~3090Hz WOW & Flutter less than 0.35% (RMS)
4. Playback frequency responce	a) Playback the test tape(VT724:1kHz), spreaker output set to 2V by set volume. Playback the test tape(VT739), check level differe b) to $0 \pm 3\text{dB}$ at 1kHz/10kHz, $-4\text{dB} \pm 2\text{dB}$ at 1kHz/63Hz. 10kHz level is not clear the specification, readjust the head azimuth.		Speaker output 1kHz/10kHz : $0 \pm 3\text{dB}$ 1kHz/63Hz : $-4 \pm 2\text{dB}$

Description major of ICs

■ AN80T05 (IC901) : Regulator

1.Terminal layout & Block diagram

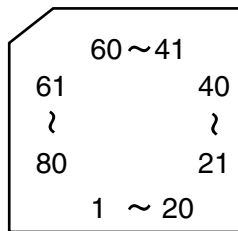


2.Pin function

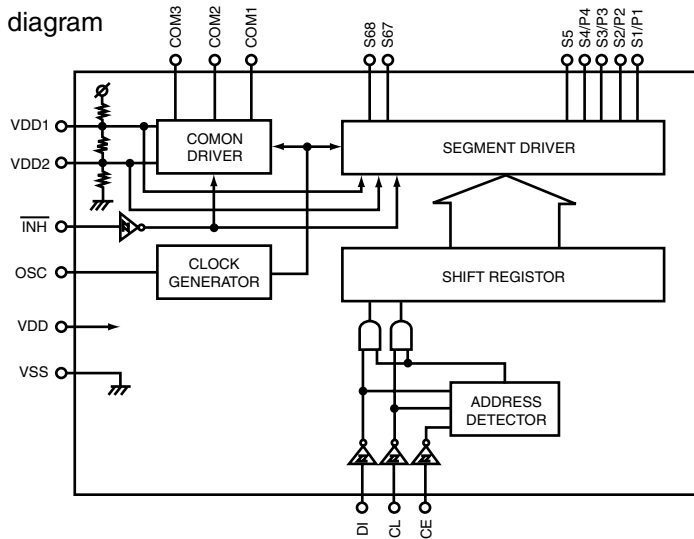
Pin No.	Symbol	Function
1	ILL	10V power supply for illumination.
2	MODE2	When 5V is input,becomes AM. and the antenna output is turned on.
3	MODE1	When 5V is input,becomes AM. and the output of FM is switched.
4	STB	When 5V is input, outputs to ILL,COM,and AMP. It is 0V usually.
5	VDD	5.6V power supply.
6	AMP	Power supply supply to remote amplifier
7	VCC	Back up. connects with ACC with it.
8	ANT	Power supply supply to auto antenna.
9	COM	8.7V power supply.
10	AM	The power supply of 8.7V to AM.
11	FM	The power supply of 8.7V to FM.
12	GND	Ground

■ LC75873NW(IC601):LCD Driver

1.Pin layout



2.Block diagram

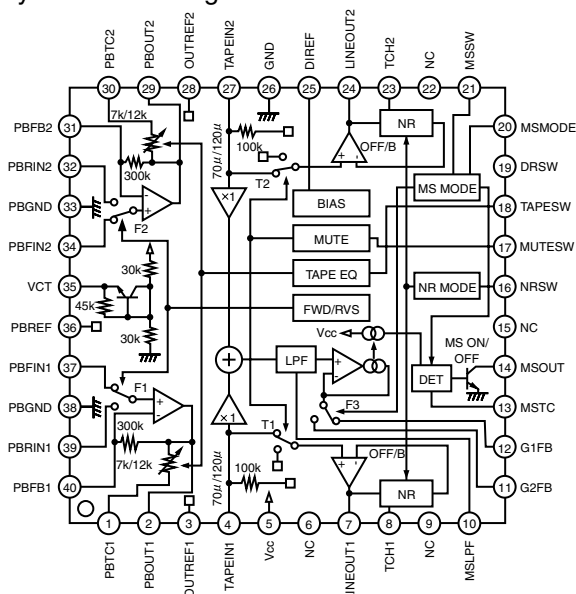


3.Pin function

Pin No.	Pin name	I/O	Description
79,80 1,2,3 to 66	S1/P1 TO S4/P4 S5 to S68	O	Segment outouts for displaying the display data transferred by serial data input. The S1/P1 to S4/P4 pins can be used as general-purpose output ports under serial data control.
67 78 69	COM1 COM2 COM3	O	Common driver outputs. The frame frequency f_0 is given by : $f_0 = (F_{OSC}/384)\text{Hz}$.
74	OSC	I/O	Oscillator connection An oscillator circuit is formed by connecting an external resistor and capacitor to this pin.
76 77 78	CE CL DI	I I I	Serial data transfer inputs. Connected to the controller. CE:Chip enable CL:Synchronization clock DI:Transfer data
75	$\overline{\text{INH}}$	I	Display off control input • $\overline{\text{INH}} = \text{"L"} (\text{VSS}) \dots$ Display forced off S1/P1 to S4/P4 = "L" (These pins are forcibly set to the segment output port function and held at the low level.) S5 to S68 = "L" COM1 to COM3 "L" • $\overline{\text{INH}} = \text{"H"} (\text{HDD}) \dots$ Display on However, serial data transfer is possible when the display is forced off by this pin.
71	VDD1	I	Used for applying the LCD drive 2/3 bias voltage externally. Must be connected to VDD2 when a 1/2 bias drive scheme is used.
72	VDD2	I	Used for applying the LCD drive 1/3 bias voltage externally. Must be connected to VDD1 when a 1/2 bias drive scheme is used.
70	VDD	-	Power supply connection. Provide a voltage of between 3.0 and 6.0V.
73	VSS	-	Power supply connection. Connect to ground.

■ CXA2560Q (IC401) : Dolby B type noise reduction system with play back equalizer amp.

1. Pin layout & block diagram



2. Pin function

Pin No.	Symbol	I/O	Function
1	PBTC1	-	Playback equalizer amplifier capacitance
2	PBOUT1	O	Playback equalizer amplifier output
3	OUTREF1	O	Output reference
4	TAPEIN1	I	TAPE input
5	Vcc	-	Power supply
6	NC	-	
7	LINEOUT1	O	Line output
8	TCH1	-	Time constant for the HLS
9	NC	-	
10	MSLPF	-	Cut-off frequency adjustment of the music sensor LPF
11	G2FB	-	Music signal interval detection
12	G1FB	-	Music signal interval detection
13	MSTC	-	Time constant for detecting music signal interval
14	MSOUT	O	Music sensor out
15	NC	-	No use
16	NRSW	I	Dolby NR control
17	MUTESW	I	Mute function control
18	TAPESW	I	Playback equalizer amplifier control
19	DRSW	I	Head select control
20	MSMODE	I	Music sensor mode control
21	MSSW	I	Music sensor control
22	NC	-	
23	TCH2	-	Time constant for the HLS
24	LINEOUT2	O	Line output

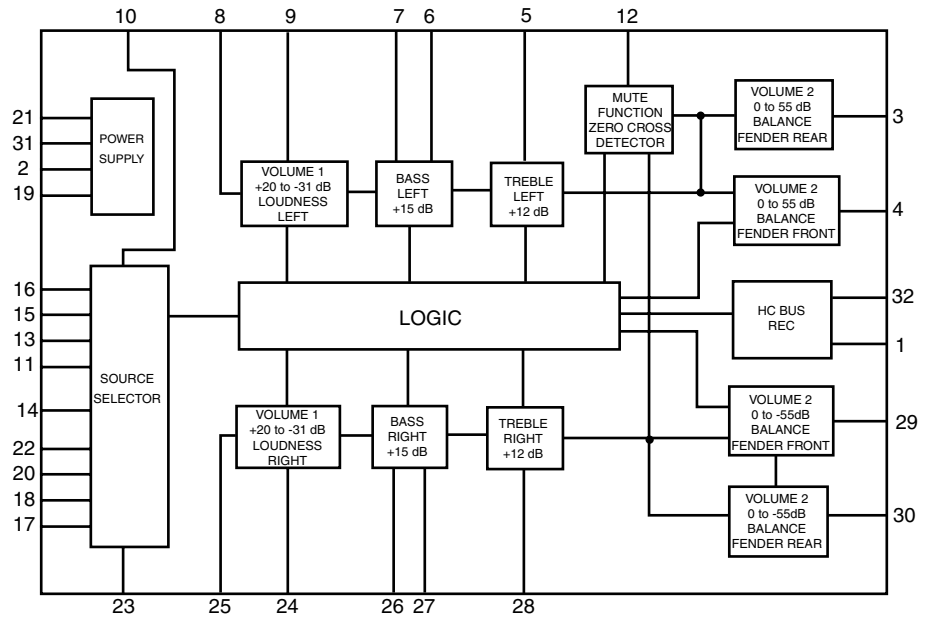
Pin No.	Symbol	I/O	Function
25	DIREF	-	Resistance for setting the reference
26	GND	-	Ground
27	TAPEIN2	I	TAPE input
28	OUTREF2	O	Output reference
29	PBOUT2	O	Playback equalizer amplifier output
30	PBTC2	-	Playback equalizer amplifier capacitance
31	PBFB2	I	Playback equalizer amplifier feedback
32	PBRIN2	I	Playback equalizer amplifier input
33	PBGND	-	Playback equalizer amplifier ground
34	PBFIN2	I	Playback equalizer amplifier input
35	VCT	O	Center
36	PBREF	O	Playback equalizer amplifier reference
37	PBFIN1	I	Playback equalizer amplifier input
38	PBGND	-	Playback equalizer amplifier ground
39	PBRIN1	I	Playback equalizer amplifier input
40	PBFB1	I	Playback equalizer amplifier feedback

TEA6320T-X (IC161) : E.volume

1.Pin layout

SDA	1	32	SCL
GND	2	31	VCC
OUTLR	3	30	OUTRR
OUTLF	4	29	OUTRF
TL	5	28	TR
B2L	6	27	B2R
B1L	7	26	B1R
IVL	8	25	IVR
ILL	9	24	ILR
QSL	10	23	QSR
IDL	11	22	IDR
MUTE	12	21	Vref
ICL	13	20	ICR
IMD	14	19	CAP
IBL	15	18	IBR
IAL	16	17	IAR
			CD-CH
			TAPE
			TUNER

2.Block diagram

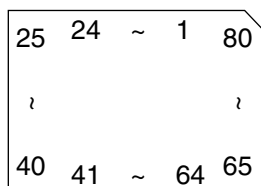


3.Pin functions

Pin No.	Symbol	I/O	Functions	Pin No.	Symbol	I/O	Functions
1	SDA	I/O	Serial data input/output.	17	IAR	I	Input A right source.
2	GND	-	Ground.	18	IBR	I	Input B right source.
3	OUTLR	O	output left rear.	19	CAP	-	Electronic filtering for supply.
4	OUTLF	O	output left front.	20	ICR	I	Input C right source.
5	TL	I	Treble control capacitor left channel or input from an external equalizer.	21	Vref	-	Reference voltage (0.5Vcc)
6	B2L	-	Bass control capacitor left channel or output to an external equalizer.	22	IDR	-	Not used
7	B1L	-	Bass control capacitor left channel.	23	QSR	O	Output source selector right channel.
8	IVL	I	Input volume 1. left control part.	24	ILR	I	Input loudness right channel.
9	ILL	I	Input loudness. left control part.	25	IVR	I	Input volume 1. right control part.
10	QSL	O	Output source selector. left channel.	26	B1R	-	Bass control capacitor right channel
11	IDL	-	Not used	27	B2R	O	Bass control capacitor right channel or output to an external equalizer.
12	MUTE	-	Not used	28	TR	I	Treble control capacitor right channel or input from an external equalizer.
13	ICL	I	Input C left source.	29	OUTRF	O	Output right front.
14	IMO	-	Not used	30	OUTRR	O	Output right rear.
15	IBL	I	Input B left source.	31	Vcc	-	Supply voltage.
16	IAL	I	Input A left source.	32	SCL	I	Serial clock input.

■ LC72366-9A81 (IC701) : System CPU

1. Pin layout



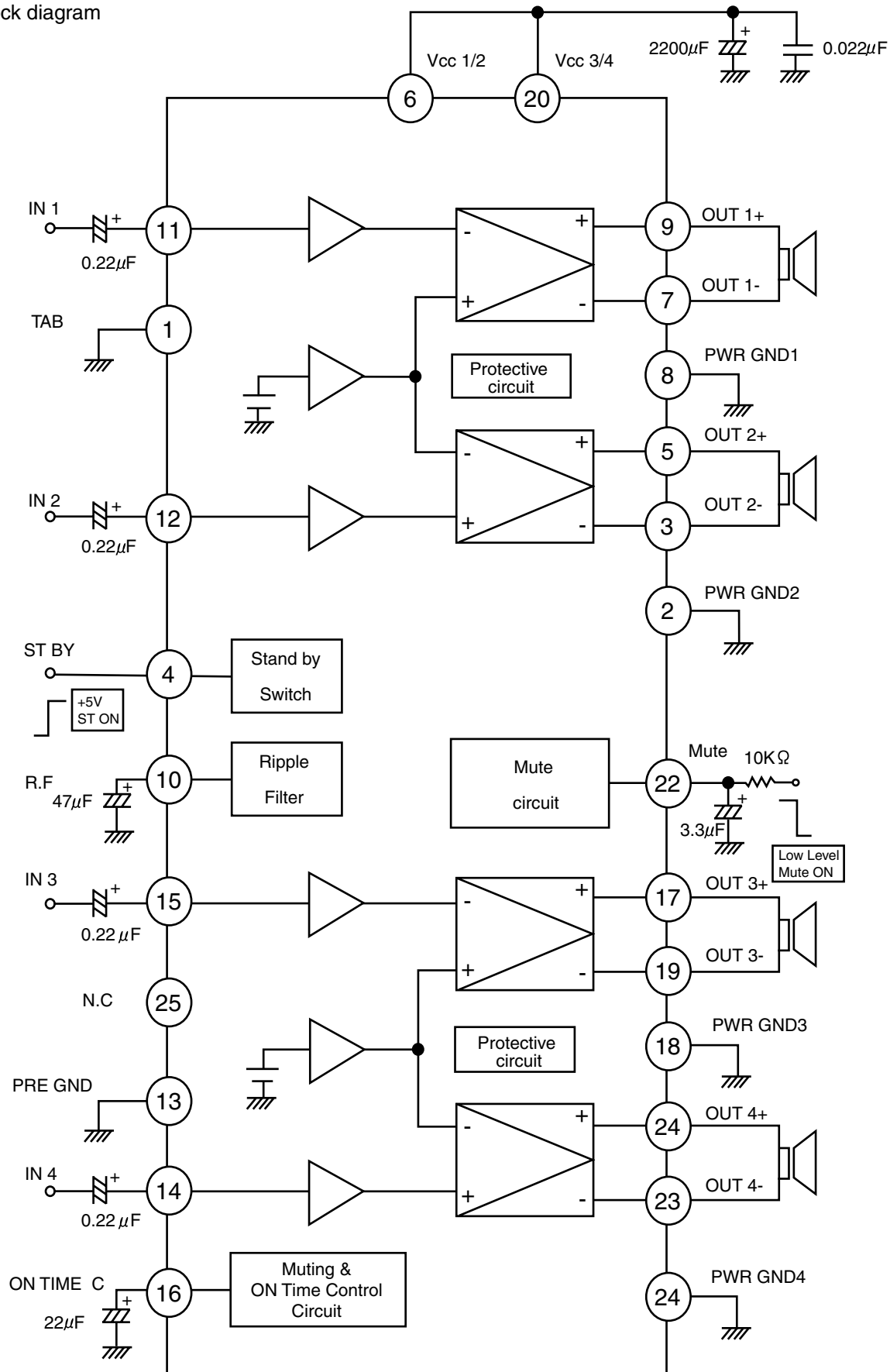
2. Pin function

Pin No.	Symbol	I/O	Function
1	XIN	I	Crystal oscillator input port
2	TEST2	-	Connect to GND
3	J-BUS SI	I	Data input for J-BUS information
4	J-BUS SO	O	Data output for J-BUS information
5	J-BUS SCK	O	Clock output for J-BUS information
6	J-BUS I/O	O	Switching signal output for J-BUS information I/O, H:Out L:In
7	TEL-MUTE	I	Telephone mute signal detection input
8	LCD DA	O	Data output to LCD driver
9	LCD CL	O	Clock output to LCD driver
10	LCD CE	O	Chip enable output for LCD driver
11	SDA	O	E.volume clock output
12	SCL	O	E.volume clock output
13	EVOL SCK	O	Clock output for electrical volume information
14	OPEN	I	Door open detecting
15	ANT REMOTE	O	Antenna remote control output
16	MUTE CONTORL	O	Mute output
17	NC	-	Non connection
18	NC	-	Non connection
19	NC	-	Non connection
20	NC	-	Non connection
21	NC	-	Non connection
22	NC	-	Non connection
23	NC	-	Non connection
24	NC	-	Non connection
25	KS1	-	Non connection
26	KS0	O	Diode matrix output port for initial establishing
27	K3	I	Diode matrix output port for initial establishing
28	K2	I	Diode matrix output port for initial establishing
29	K1	-	Non connection
30	K0	I	Diode matrix output port for initial establishing
31	Vdd	-	5V power supply port (+B)
32	TEST	I	Turn on all light indicator of LCD, L: All light a LED indicator
33	FF/REW MODE	O	FF/REW mode select signal output
34	SEEK/STOP	O	H:Auto seek, L: Stop Use both as IF count REQ and Seek/Stop
35	MONO	O	Forced monaural output port, H:Turn on Forced monaural
36	RADIO/TAPE	-	Non connection
37	NC	-	Non connection
38	POWER	O	Power ON/OFF switching output
39	NC	-	Non connection
40	NC	-	Non connection

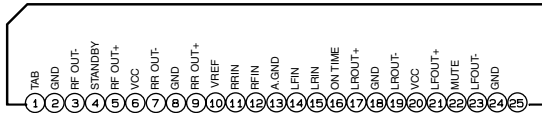
Pin No.	Port Name	I/O	Function
41	MOTOR	O	Main motor output, H:Transport L: Stop
42	SUBMO+	O	Sub-motor output(+), Loading direction to transport output
43	SUBMO-	O	Sub-motor output(-), Eject direction to transport output
44	BEEP	-	Non connection
45	TAPE IN	I	Switch for detecting to input cassette, L: Cassette in
46	STANDBY	I	Switch for detecting standby position
47	REEL	I	Switch for detecting tape end position
48	MODE	I	Detecting mode position input
49	F/R	I	Switch for detecting forward/reverse , H:FWD L:REV
50	MS	I	MS input port,
51	SD/ST	I	Station detector, Stereo signal input, H:SD
52	DETACH	O	Front panel detect
53	JOG-0	I	Rotary volume signal 0 input
54	JOG-1	I	Rotary volume signal 1 input
55	J-BUS INT	I	Cut in signal detecting port from J-Bus information
56	REMOCON	I	Remocon input
57	BAND	O	FM/AM band section
58	DOLBY	O	Dolby NR control
59	NC	-	Non connection
60	NC	-	Non connection
61	MEM DET	I	Back-up power supply detecting port, H:input L:no input
62	LEVELMETER	I	Pressure voice level voltage input for level meter.
63	S.METER	I	S meter voltage input
64	KEY2	I	Key 2 input port
65	KEY1	I	Key 1 input port
66	KEY0	I	Key 0 input port
67	ACCDET	I	Hold port for Acc detecting, L: Hold mode
68	SENSE	I	Voltage sensor port
69	NC	-	Non connection
70	FM IF COUNT	I	FM frequency detecting
71	NC	-	Non connection
72	NC	-	Non connection
73	Vdd	-	5V power supply (+B)
74	NC	-	Non connection
75	FM OSC	-	FM limited signal input
76	VSS	-	Ground port for power supply
77	NC	O	Non connection
78	E0	-	Error signal output port for PLL
79	TEST1	O	Test port for LSI, To connect ground
80	XOUT		4.5MHz crystal oscillator output

■ LA47503(IC301) : Power amp.

1. Block diagram



2. Terminal layout

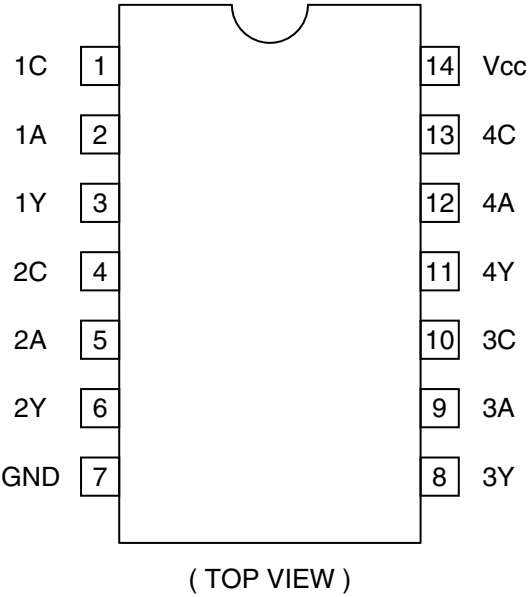


3. Pin function

Pin No.	Symbol	Function
1	TAB	Header of IC
2	GND	Power GND
3	RFO(-)	Output(-) for front Rch
4	STBY	Stand by input
5	RFO(+)	Output (+) for front Rch
6	VCC1/2	Power input
7	RRO(-)	Output (-) for rear Rch
8	GND	Power GND
9	RRO(+)	Output (+) for rear Rch
10	VREF	Ripple filter
11	RRIN	Rear Rch input
12	RFIN	Front Rch input
13	A.GND	GND
14	LFIN	Front Lch input
15	LRIN	Rear Lch input
16	ONTIME	Power on time control
17	LRO(+)	Output (+) for rear Lch
18	GND	Power GND
19	LRO(-)	Output (-) for rear Lch
20	VCC3/4	Power input
21	LFO(+)	Output (+) for front
22	MUTE	Muting control input
23	LFO(-)	Output (-) for front
24	GND	Power GND
25	NC	Non connection

■ HD74HC126P (IC801) : Changer control

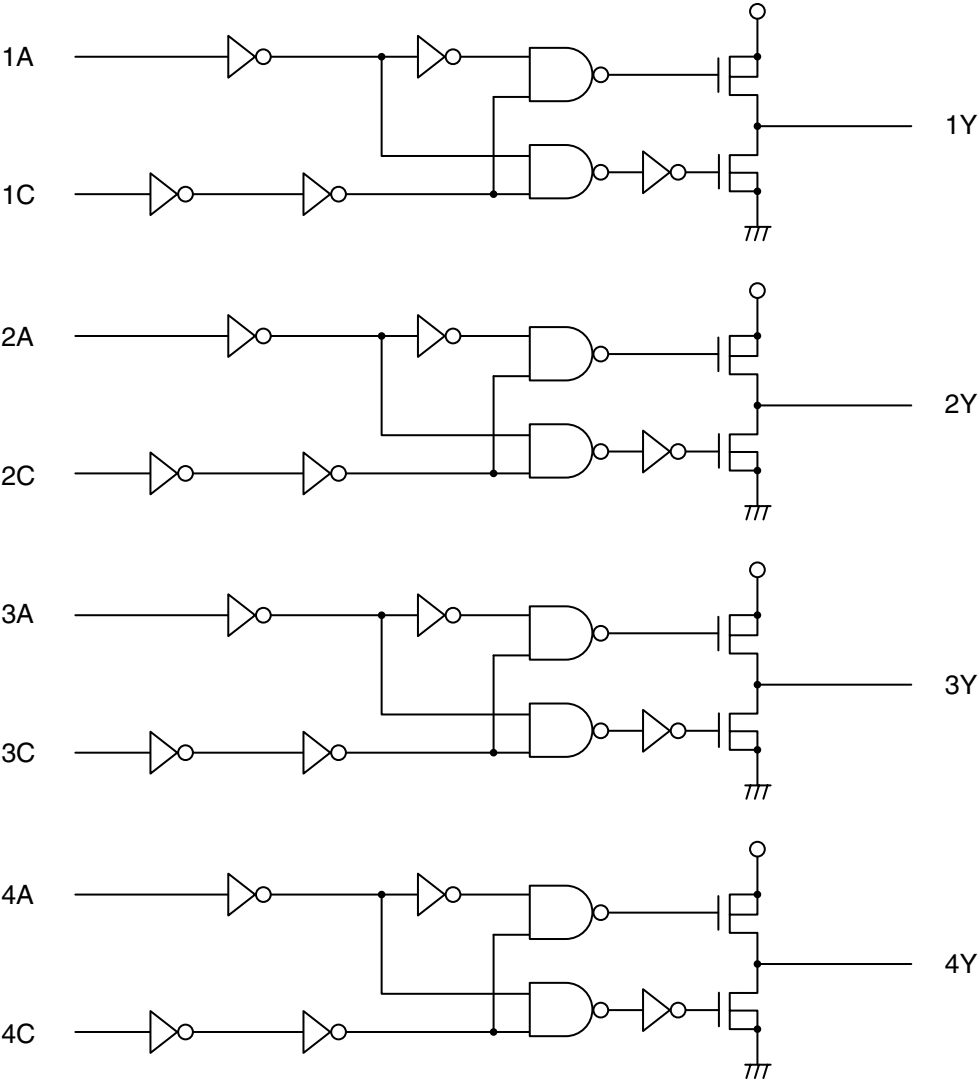
1.Pin arrangement



2. Pin function

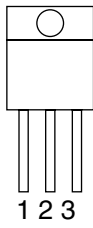
Input		Output
C	A	Y
L	X	Z
H	L	L
H	H	H

3. Block diagram

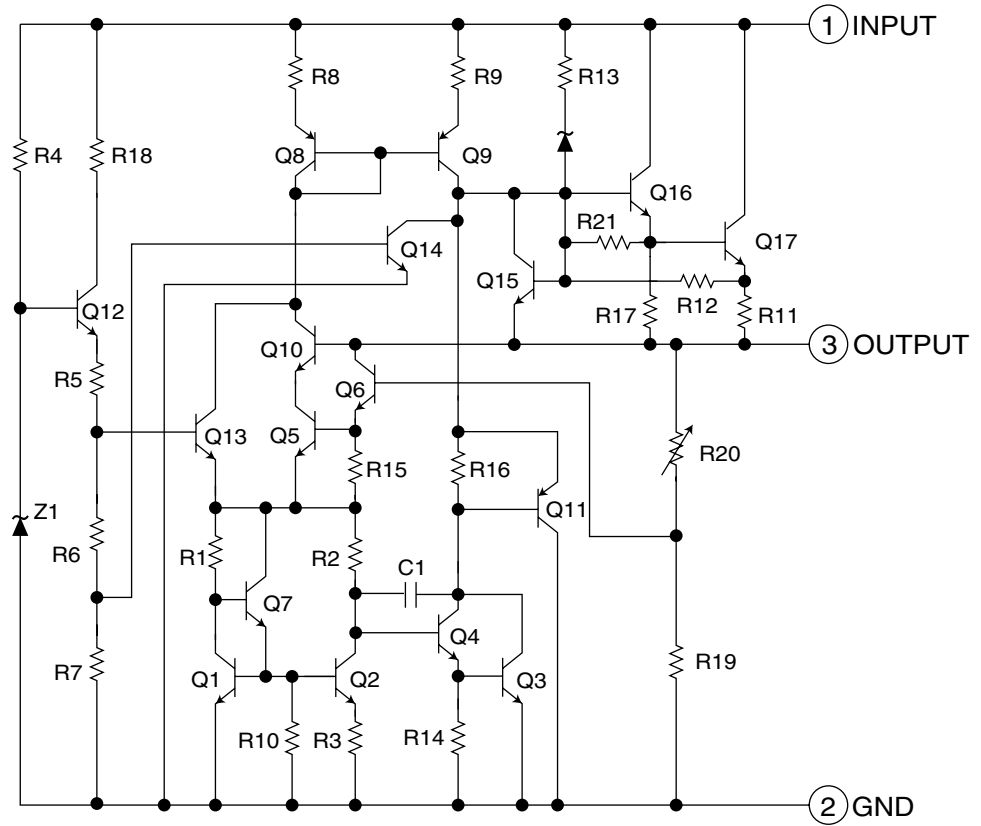


KIA7810PI (IC902) : Regulator

1.Pin layout

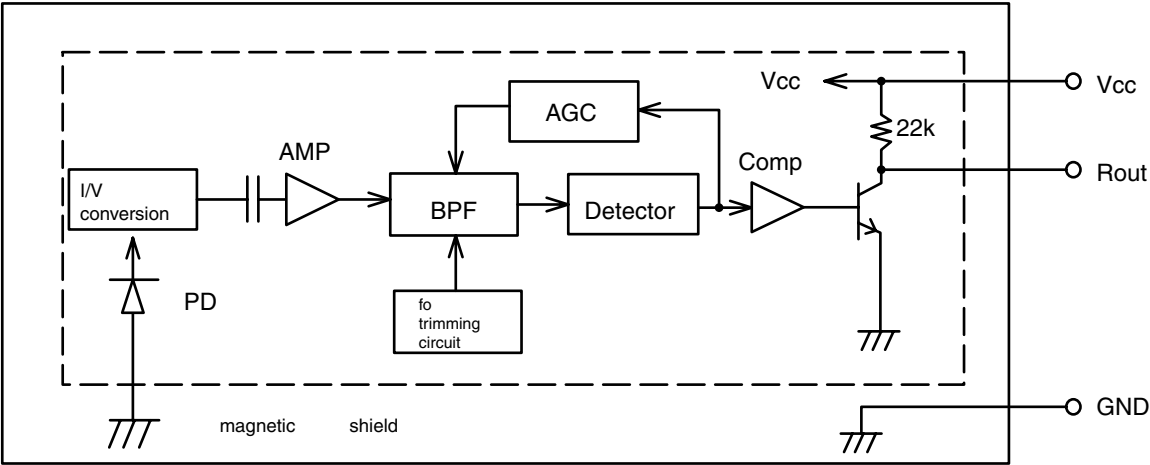


2.Block diagram



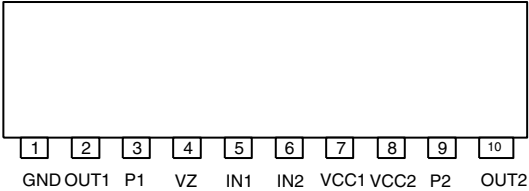
■ RPM6938-SV4(IC602) : Remote sensor

1.Block diagram



■ LB1641 (IC402) : DC motor driver

1. Pin layout



2. Pin function

Input		Output		Mode
IN1	IN2	OUT1	OUT2	
0	0	0	0	Brake
1	0	1	0	CLOCKWISE
0	1	0	1	COUNTER-CLOCKWISE
1	1	0	0	Brake

< M E M O >



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