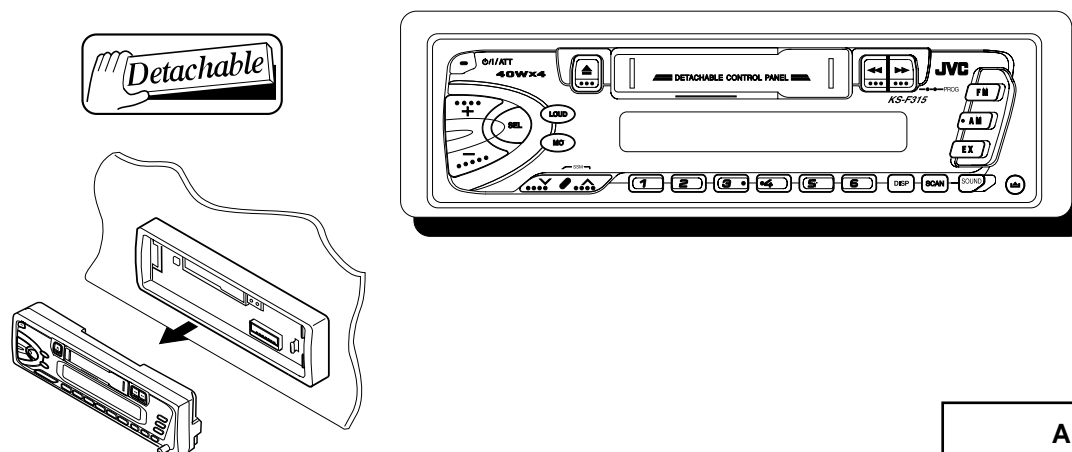


# JVC

# SERVICE MANUAL

## CASSETTE RECEIVER

# KS-F315




### Area Suffix

EE ---- Russian Federation

## Contents

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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

## ■ Detaching the Front Panel Unit

( See Fig.1 )

Push the Release button in the direction of arrow to detach the front panel unit.

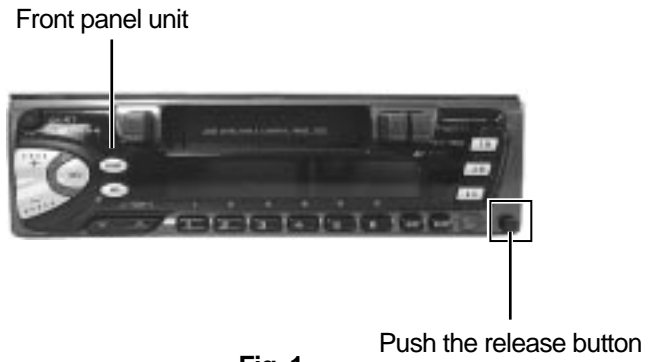


Fig. 1

## ■ Removing the Front Chassis

( See Fig. 2 and 3 )

Disengage the four tabs ( a ) in the right and left sides of unit and pull the front chassis forward to remove it.

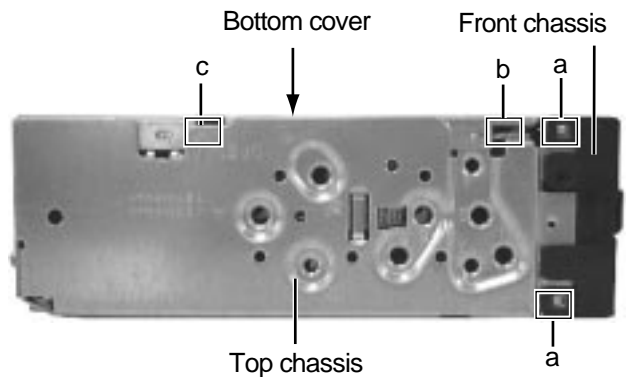


Fig. 2

## ■ Removing the Bottom Cover

( See Fig. 2 to 4 )

1. Removing the front chassis.
2. Turn the unit up side down.
3. Insert the six engagements ( b, c, d, e, f ) to the screwdriver .
4. Turn the screwdriver and remove the bottom cover.

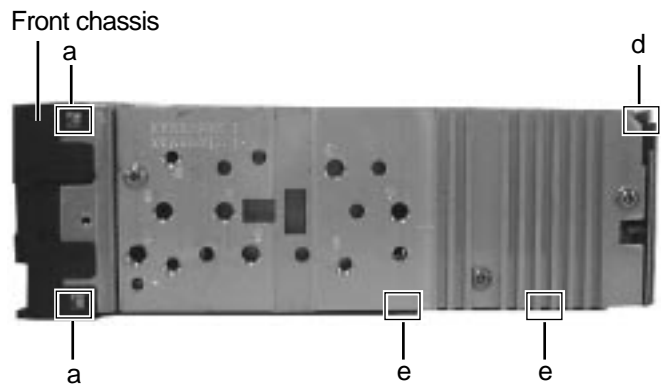


Fig. 3

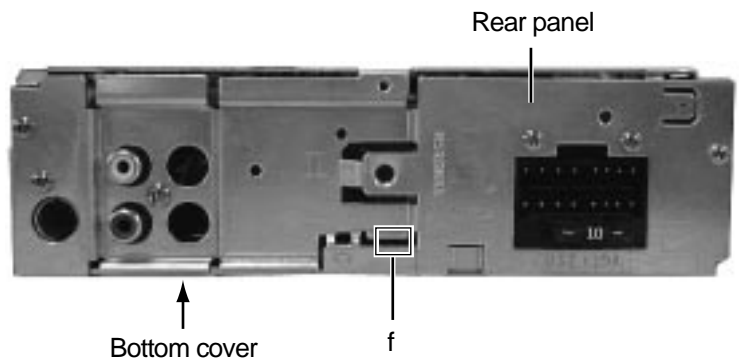


Fig. 4

■ **Removing the Heat Sink ( See Fig. 5 )**

1. Removing the front chassis.
2. Removing the bottom cover.
3. Remove the three screws ( 1 ) retaining the heat sink.

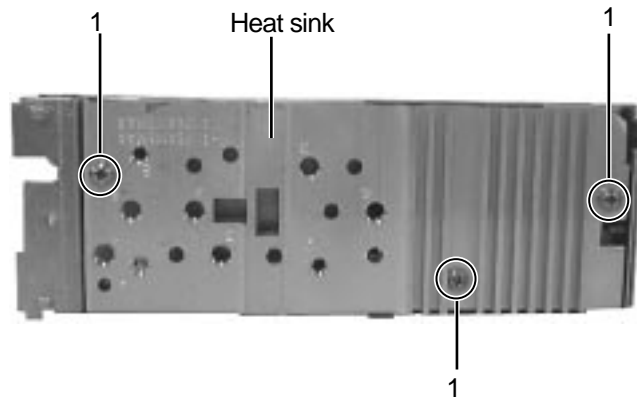
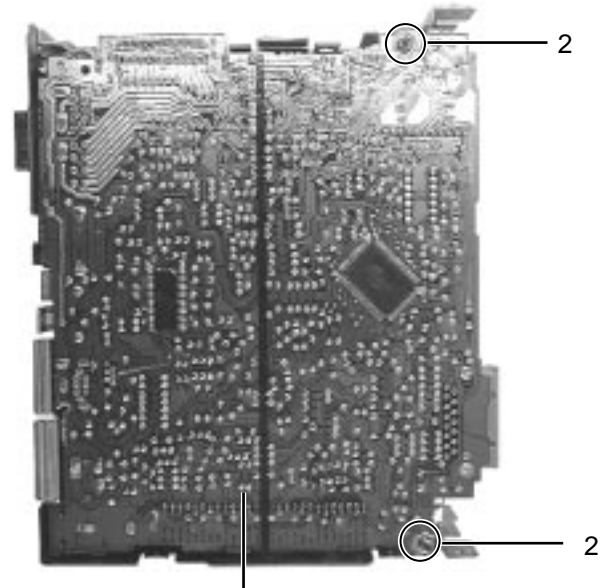


Fig. 5

■ **Removing the Main Board Assembly**

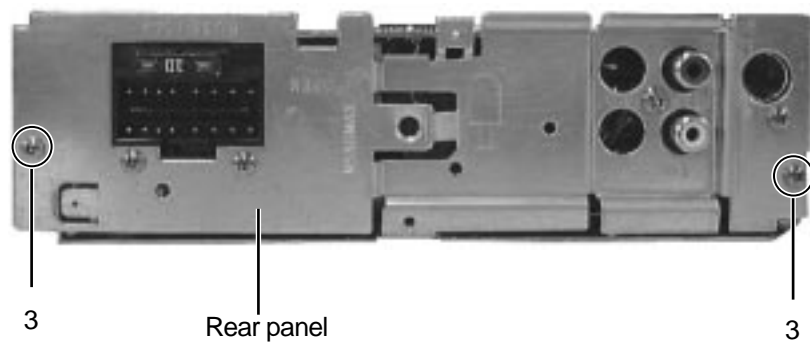
( See Fig. 5 to 7 )

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.  
( Attach the heat sink with a screw ( 1` ) on operating checks.
4. Remove the two screws ( 2 ) retaining the main board assembly.
5. Remove the two screws ( 3 ) retaining the rear panel .
6. Separate the main board assembly and cassette mechanism assembly.
7. Take out the main board assembly.



Main board assembly

Fig. 6



Rear panel

Fig. 7

## ■Removing the Cassette Mechanism assembly

( See Fig. 8 )

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.
4. Removing the main board assembly.
5. Remove the four screws ( 4 ) retaining the cassette mechanism.
6. Separate the top chassis and cassette mechanism.

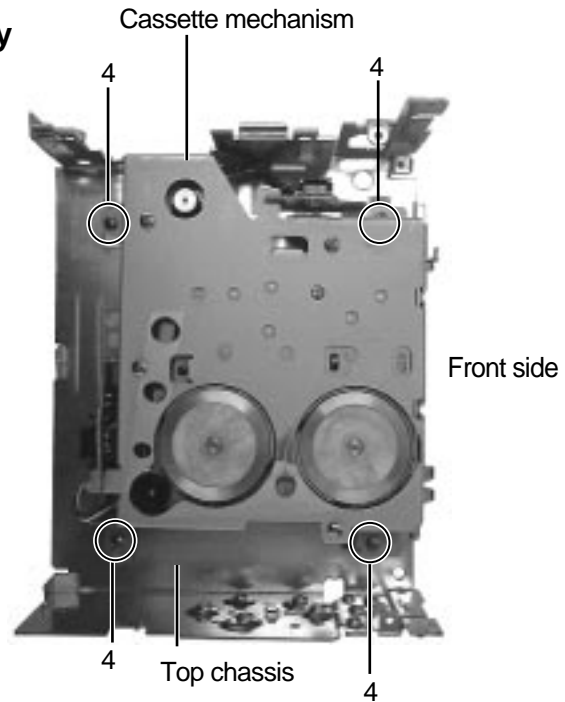


Fig. 8

## ■Removing the Operation Switch board

( See Fig. 9 to 11)

1. Detaching the front panel unit.
2. Turn the front panel back side down.
3. Remove the four screws ( 5 ) retaining the front cover.
4. Open the front cover gradually by disengaging the three engagements ( g ) while pushing the top of the front cover in the arrow "A" direction, then disengage the three engagements ( h ) on the both sides.
5. Place the front panel unit front side down.
6. Disengage the three engagements ( i ) on the bottom to separate the front cover from the front panel.

(Be careful not to lose the button springs.)

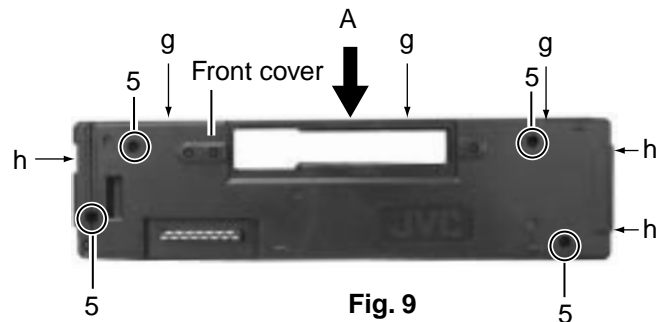


Fig. 9

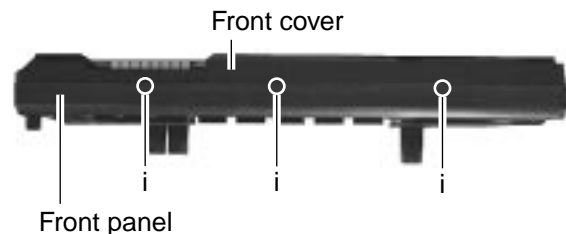


Fig. 10

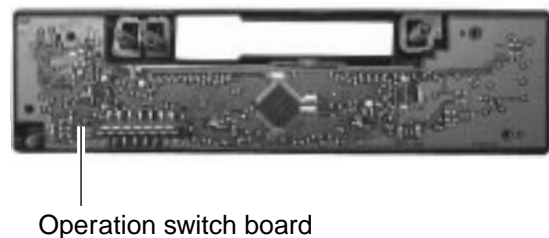


Fig. 11

### ■ Removing the Head Amplifier Board

( See Fig. 12 )

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.
4. Removing the main board assembly.
5. Removing the cassette mechanism.
6. Remove the screw ( 6 ) retaining the head amplifier board.
7. Shift the two inter rocking sections ( j ) securing the head amplifier board in the direction shown by the arrow "B" to remove the printed circuit board.
8. From the connector CJ901 on the head amplifier board from connector wire out going to the head relay board.

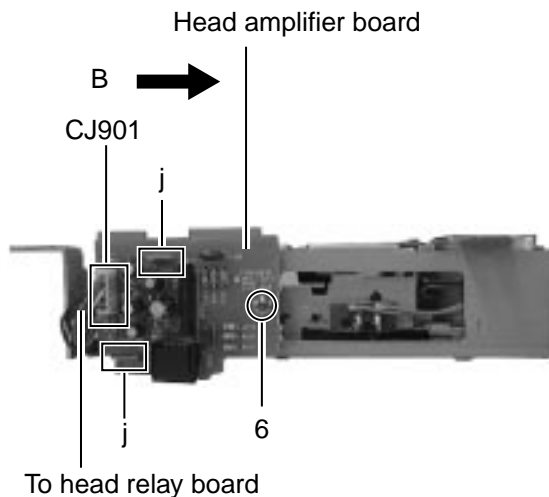


Fig. 12

### ■ Removing the Chassis Assembly

( See Fig. 13 and 14 )

1. Removing the front chassis.
2. Removing the bottom cover.
3. Removing the heat sink.
4. Removing the main board assembly.
5. Removing the cassette mechanism.
6. Removing the head amplifier board.
7. Turn the left side to cassette mechanism.
8. Remove the screw ( 7 ) retaining the relay board.
9. Shift the one inter rocking sections ( k ) securing the relay board in the direction shown by the arrow "C" to remove the printed circuit board.
10. Turn the back side down, remove the four screws ( 8 ) retaining the chassis assembly.

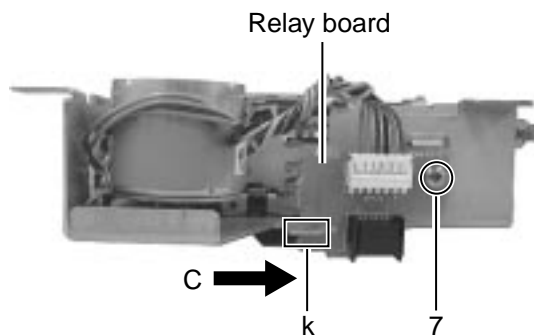


Fig. 13

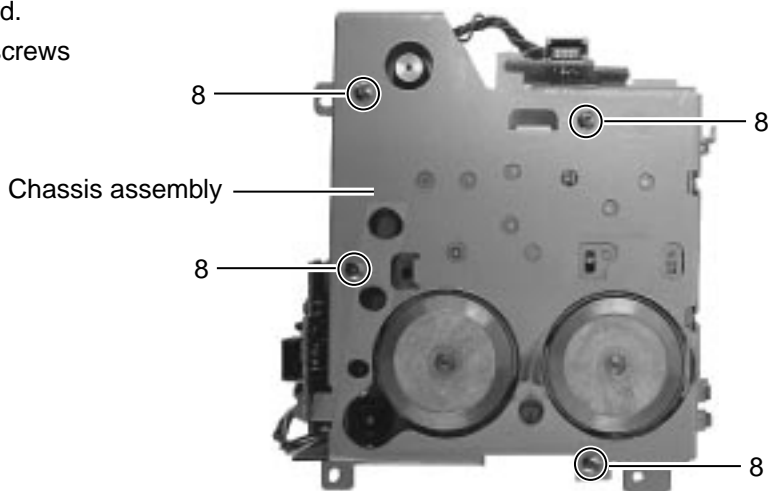


Fig. 14

## <Cassette mechanism assembly>

- Prior to performing the following procedures, remove the head amplifier board, the relay board and the mechanism bracket.

### ■ Removing the direction switch board (See Fig.1)

1. Unsolder the three wires **a** on the direction switch board.
2. Remove the one screw **A** attaching the direction switch board.

### ■ Removing the FF / REW lever assembly (See Fig.1)

1. Remove the screw **B** attaching the FF / REW lever assembly on the back of the cassette mechanism assembly.
2. Remove the screw **C** on the upper side of the FF / REW lever assembly.
3. Lift and pull forward the FF / REW lever assembly to disengage the joints **b**, **c**, **d** and **e**.

### ■ Reattaching the FF / REW lever assembly (See Fig.1)

1. Reattach the FF / REW lever assembly to the joint **c** on the back of the chassis.
2. Reattach the pinch-roller shaft **e**, the change lever **d** and the return link **e** to the chassis.

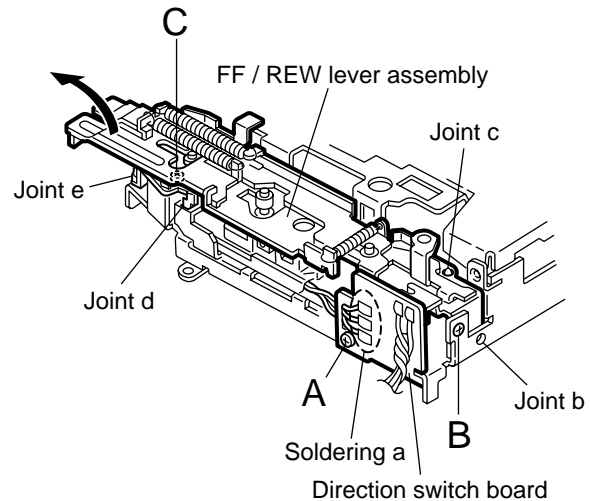


Fig.1

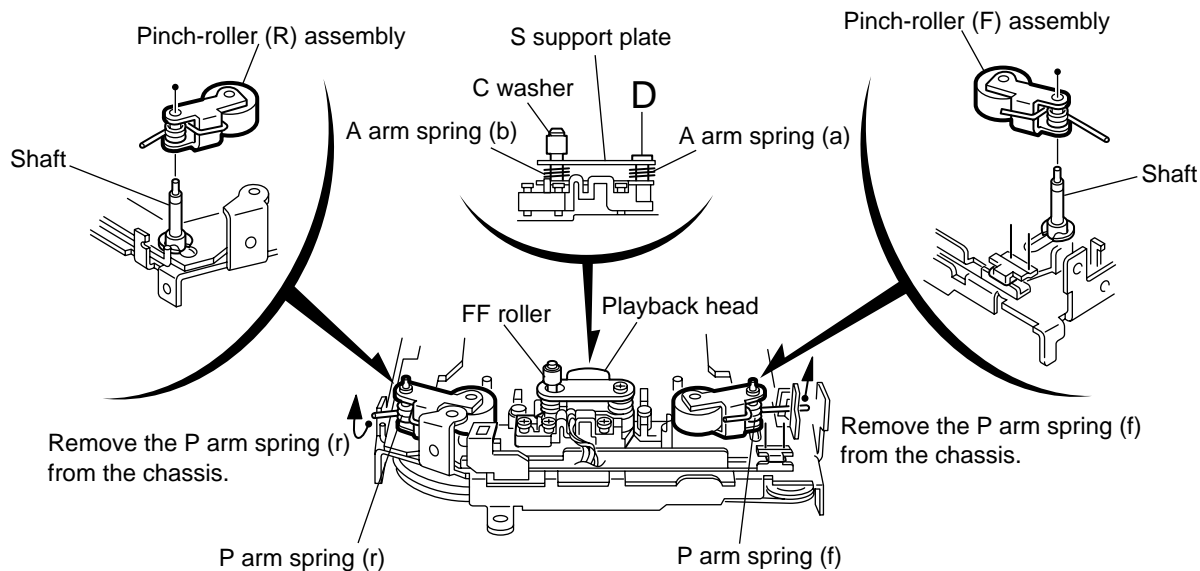


Fig.2

### ■ Removing the playback head (See Fig.2)

- Prior to performing the following procedure, remove the direction switch board and the FF / REW lever assembly.

1. Remove the screw **D** attaching the playback head.
2. Remove the **C** washer and pull out the FF roller.
3. Remove the **S** support plate, the **A** arm spring (a) and (b), the playback head.

ATTENTION: The **A** arm spring (a) differs from the **A** arm spring (b).

### ■ Removing the pinch-roller (R) and (F) assembly (See Fig.2)

- Prior to performing the following procedure, remove the direction switch board and the FF / REW lever assembly.

1. Remove the **P** arm spring (f) in the pinch-roller (F) assembly from the chassis.
2. Remove the **P** arm spring (r) in the pinch-roller (R) assembly from the chassis.
3. Draw out the pinch roller (F) and (R) assembly from the shaft.

ATTENTION: The **P** arm spring (f) differs from the **P** arm spring (r).

ATTENTION: The pinch roller (F) assembly differs from the pinch roller (R) assembly.



**■ Removing the cassette hanger / cassette holder (See Fig.3)**

· Prior to performing the following procedure, remove the FF / REW lever assembly.

1. From the rear of the unit, bend the two tabs **f** outwards and disengage the two joints **g** in the direction of the arrow.
2. Push the eject lever and remove the cassette holder from the playback head. Disengage the two joints **h** of the cassette hanger / cassette holder and the eject lever in the direction of the arrow.
3. Lift the cassette hanger / cassette holder and disengage the joint **i** of the return link and the eject lever.

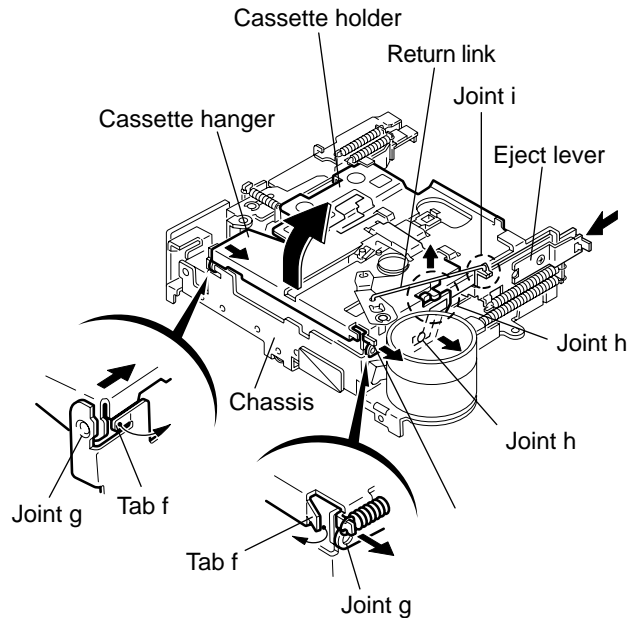


Fig.3

**■ Removing the reel disc assembly (See Fig.4)**

· Prior to performing the following procedure, remove the FF / REW lever assembly and the cassette hanger / cassette holder.

1. Remove the C washer and pull out reel disc assembly.

ATTENTION: Replace with a new C washer when reattaching.

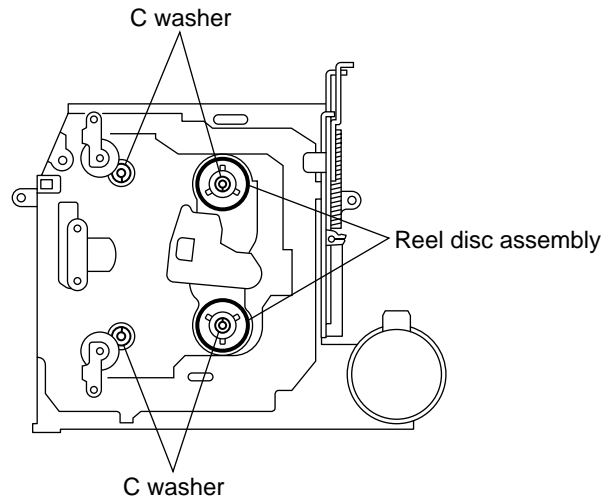


Fig.4

**■ Removing the motor assembly (See Fig.5)**

1. Unsolder the two wires **j** on the motor assembly.

ATTENTION: To replace the sub-belt, remove the main belt and the sub-belt from the motor pulley. Then remove the three screws **E** and one screw **F**. Replace with a new sub-belt while lifting the reel base assembly slightly.

2. Turn over the cassette mechanism assembly and remove the main belt and the sub-belt from the motor pulley.

ATTENTION: The main belt can now be removed.

3. Remove the two screws **G** attaching the motor assembly.

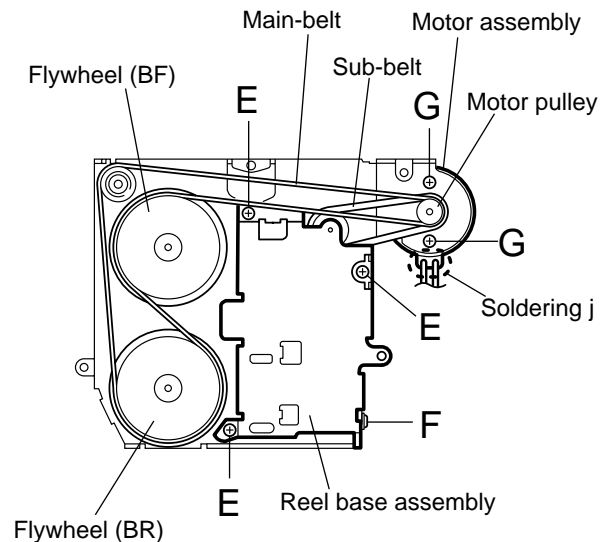


Fig.5

**■ Removing the Flywheel (BF) and (BR) assembly (See Fig.4 and 5)**

• Prior to performing the following procedure, remove the cassette hanger / cassette holder.

1. From the upper side of the cassette mechanism assembly, remove the C washer from each shaft of the flywheel (BF) and (BR).
2. Turn over the cassette mechanism assembly and remove the main belt. Pull out the flywheel (BF) and (BR) downward respectively.

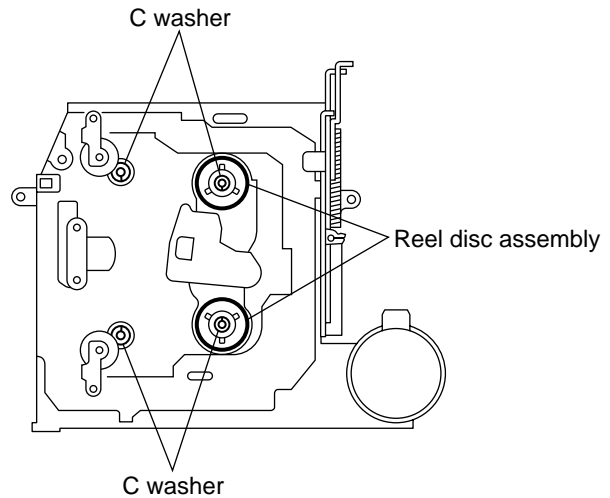


Fig.4

**■ Removing the reel base assembly (See Fig.5 and 6)**

1. Raise the part k of the reel base assembly slightly and remove the selector link (B) on the front side of the cassette mechanism assembly by turning it as shown in Fig.10.
2. Remove the three screws E and the one screw F on the underside of the cassette mechanism assembly.

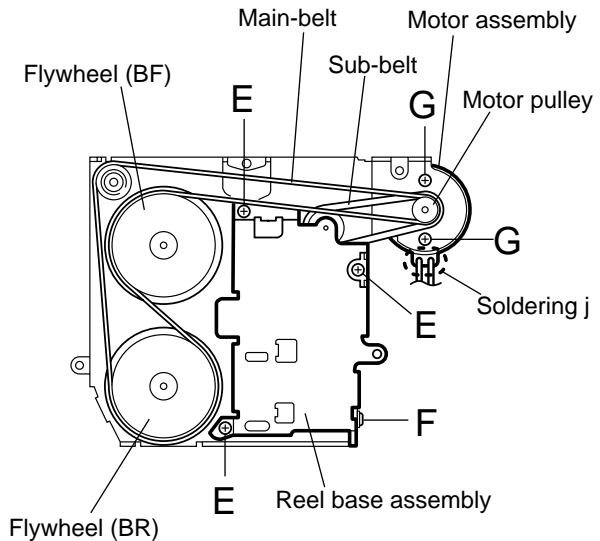


Fig.5

ATTENTION: The reel base assembly is not repairable. Handle with care.

Inside of the reel base assembly

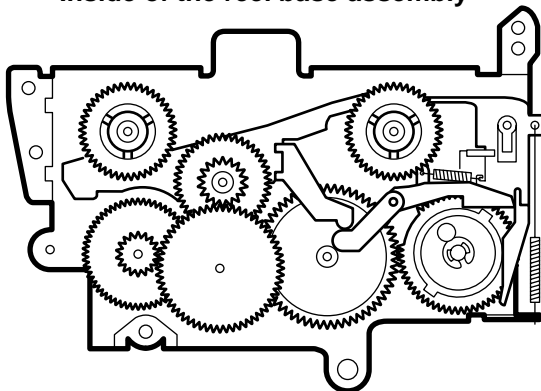


Fig.7

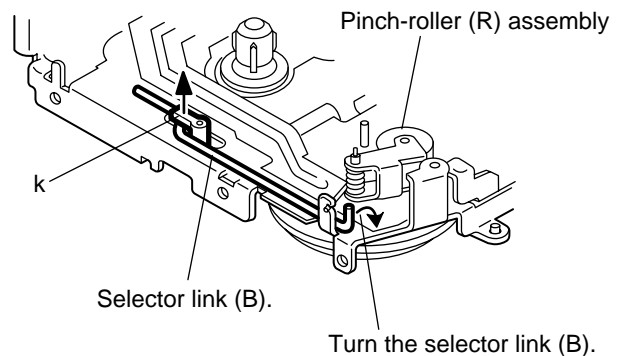


Fig.6

## ■ Removing the mute switch board

(See Fig.8)

1. Unsolder the two wires **I** on the mute switch board on the back of the cassette mechanism assembly.
2. Remove the screw **H** attaching the mute switch board.

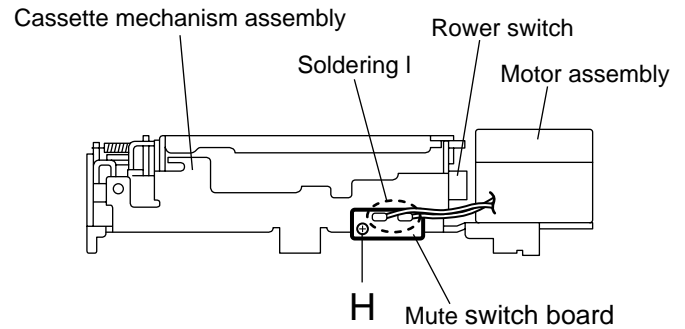


Fig.8

## ■ Removing the power switch (See Fig.9)

- Prior to performing the following procedure, remove the motor assembly.
1. Unsolder the two wires **m** on the power switch on the side of the cassette mechanism assembly.
  2. Remove the screw **I** attaching the power switch.

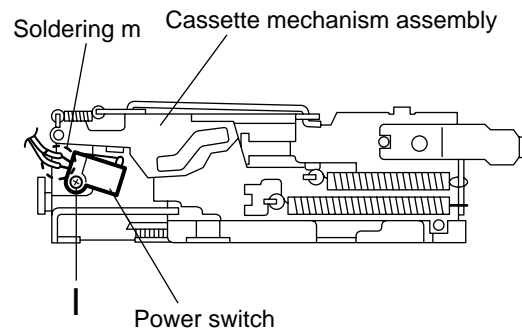


Fig.9

# 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)

## ■ 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(1μV,50Ω /open terminal)

## ■ Measuring conditions(Amplifier section)

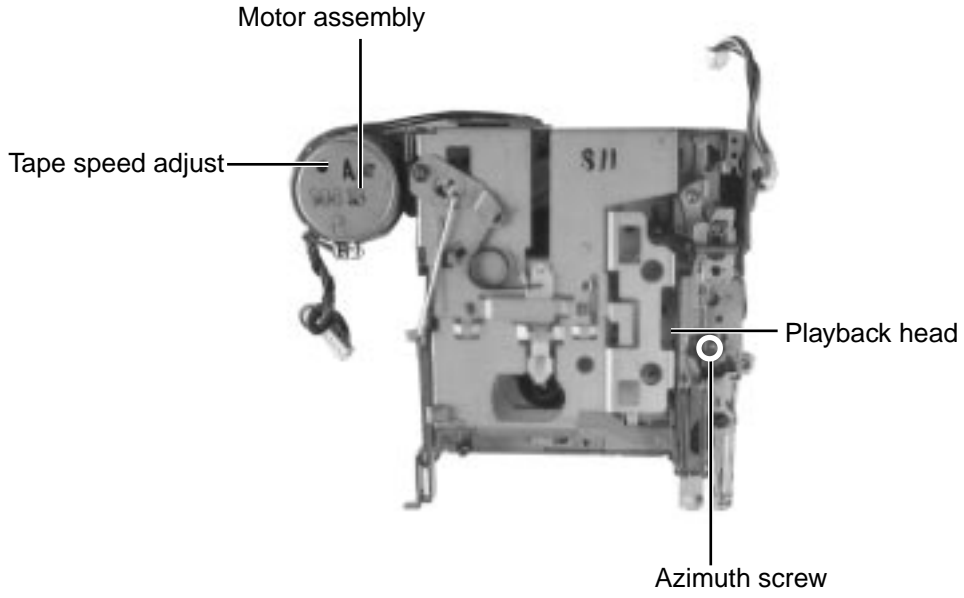
- Power supply voltage ..... DC14.4V (10.5 - 16V)
- Load impedance ..... 4 Ω (4Ω to 8Ω allowance)
- Line out ..... 1.0V / 20k Ω load(250nWb / m)

## ■ Frequency Band

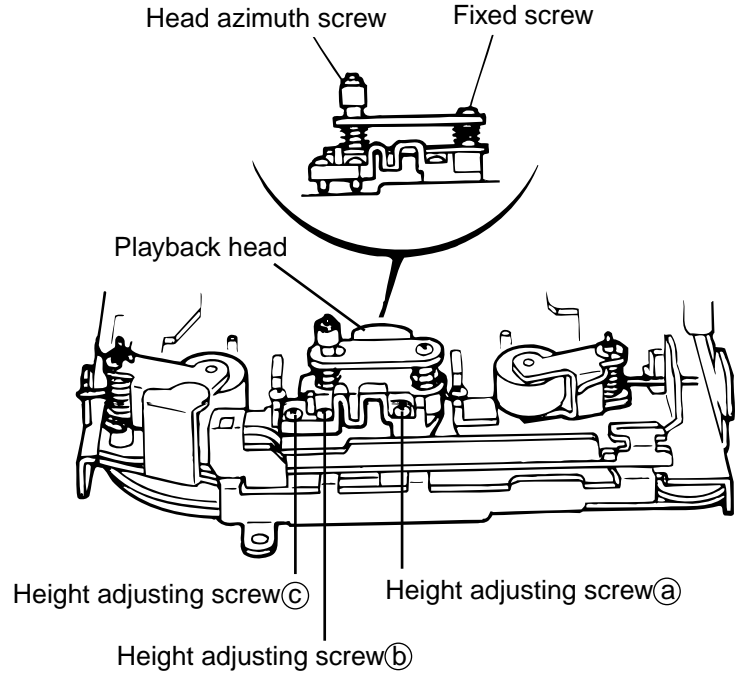
Band	FM1/FM2		87.5-108MHz
	FM3		65-74MHz
	AM	MW	522-1620KHz
		LW	144-279KHz

■Arrangement of adjusting & Test points

Cassette mechanism  
(Surface)



Head section view



## ■ Information for using a car audio service jig

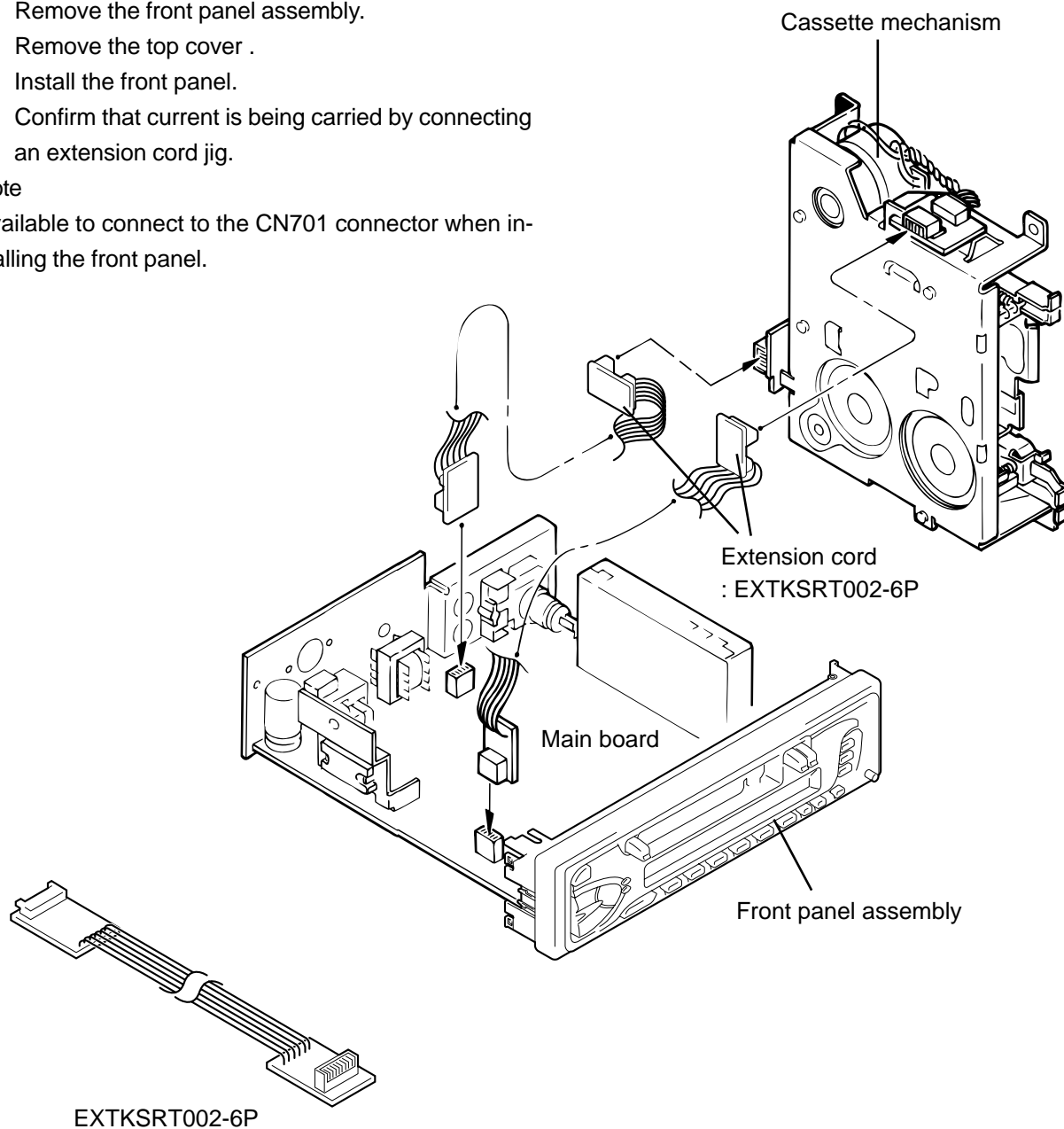
1. For 1995 and 1996 , we're advancing efforts to make our extension cords common for all car audio products. Please use this type of extension cord as follows.
2. As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
3. Extension cord : EXTKSRT002-6P ( 6 pin extension cord ) For connection between mechanism assembly and main board assembly.  
Check for mechanism driving section such as motor ,etc..

## ■ Disassembly method

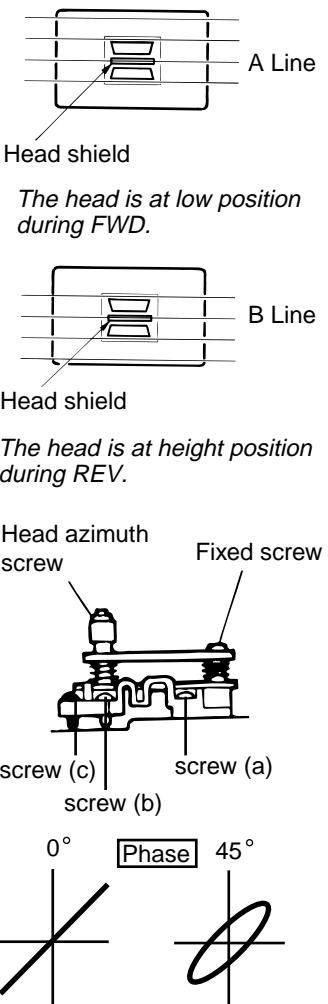
1. Remove the bottom cover.
2. Remove the front panel assembly.
3. Remove the top cover .
4. Install the front panel.
5. Confirm that current is being carried by connecting an extension cord jig.

### Note

Available to connect to the CN701 connector when installing the front panel.



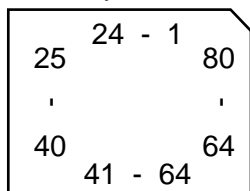
■ Mechanism adjustment section

Item	Adjusting & Confirmation Methods	Adjust	Std. Value
<p>1.Head azimuth</p>	<p>"Head Height Adjustment"                      Note                      Adjust the azimuth directly. When you adjust the height using a mirror tape, remove the cassette housing from the mechanism chassis.                      After installing the cassette housing, perform the azimuth adjustment.</p> <ol style="list-style-type: none"> <li>1.Load the mirror tape ( SCC-1659 ). Adjust with height adjustment screw (a) and azimuth adjustment screw (b) so that line "A" of the mirror tape runs in the center between Lch and Rch in the reverse play mode.</li> <li>2.After switching from REV to FWD then to REV, check that the head position set in procedure "1" is not changed.                      *If the position has shifted, adjust again and check.</li> <li>3.Adjust the azimuth screw (b) so that line "B" of the mirror tape runs in the center between Lch and Rch in the forward play mode.</li> </ol> <p>"Head Azimuth Adjustment"                      1.Load the test tape ( VT724: 1kHz ) and play it back in the reverse play mode. set the Rch output level to maximum.                      2.Load the test tape ( VT703: 10kHz ) and play it back in the forward play mode. Adjust the Rch and Lch output levels to maximum, with azimuth adjustment screw (b).                      In this case, the phase difference should be within 45°.                      3.Engage the reverse mode and adjust the output level to maximum, with azimuth adjustment screw (c).                      *The phase difference should be 45° or more.                      4.When switching between forward and reverse modes, the difference between channels should be within 3dB.                      *Between FWD Lch and Rch, REV Lch and Rch.                      5.When the test tape ( VT721 : 315Hz ) is played back, the level difference between channels should be within 1.5dB.</p>	 <p>Head shield  <i>The head is at low position during FWD.</i></p> <p>Head shield  <i>The head is at height position during REV.</i></p> <p>Head azimuth screw                      Fixed screw                      screw (c)                      screw (a)                      screw (b)</p> <p>0° Phase 45°</p>	
<p>2.Tape Speed and Wow &amp; Flutter</p>	<ol style="list-style-type: none"> <li>1.Check to see if the reading of the frequency counter &amp; Wow flutter meter is within 2940-3090 Hz( FWD/REV ), and less than 0.35% ( JIS RMS ).</li> <li>2.In case of out of specification, adjust the motor with a built-in volume resistor.</li> </ol>	<p>Built-in volume resistor</p>	<p>Tape Speed                      2940-3090Hz                      Wow&amp;Flutter                      Less than                      0.35%                      (JIS RMS)</p>
<p>3.Playback Frequency response</p>	<ol style="list-style-type: none"> <li>1.Play the test tape ( VT724 : 1kHz ) back and set the volume position at 2V.</li> <li>2.Play the test tape ( VT739 )back and confirm 0 ± 3dB at 1kHz/ 8kHz and -4+2dB at 1kHz/125Hz.</li> <li>3.When 8kHz is out of specification, it will be necessary to readjust the azimuth.</li> </ol>		<p>Speaker out                      1kHz/8kHz                      : 0dB }3dB,                      125Hz/1kHz                      : -4dB+2dB,</p>

# Description of major ICs

## ■ LC72362N-9997 (IC701) : System Controller

### 1. Terminal Layout



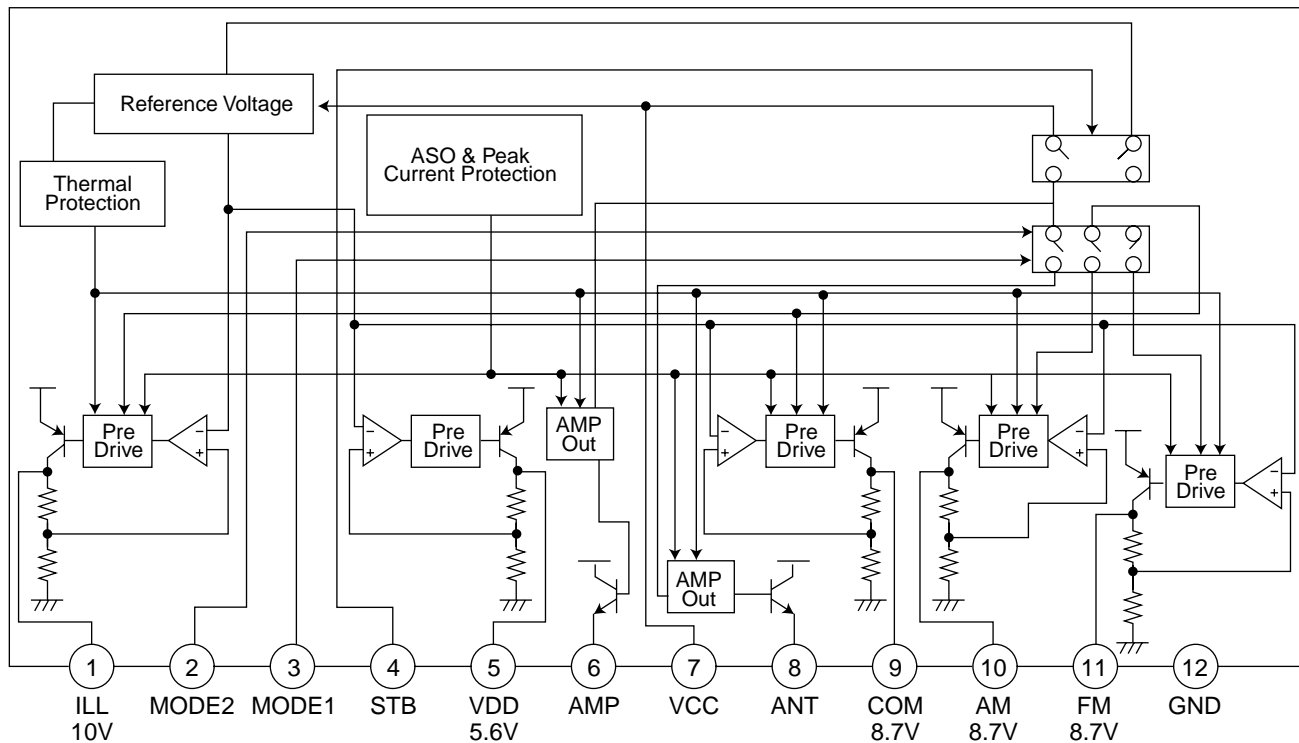
### 2. Description

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XIN	I	Crystal oscillator	41	NC	-	Non connect
2	GND	-	To GND	42	NC	-	Non connect
3	J BUS SI	I	Bus serial data input from CP751	43	NC	-	Non connect
4	J BUS SO	O	Bus serial data output to CP751	44	BEEP	-	Non connect
5	J BUS SCK	O	Bus serial clock output to CP751	45	NC	-	Non connect
6	J BUS I/O SEL	O	BUS I/O switch signal output	46	NC	-	Non connect
7	NC	-	Non connect	47	NC	-	Non connect
8	LCD SO	O	Serial data output to IC651	48	TAPE IN	I	H:RADIO L:TAPE
9	LCD SCK	O	Serial clock output to IC651	49	F/R SENSE	I	FORWARD/REVERSE switch detector
10	LCD CE	O	Chip enable output to IC651	50	TAPE MUTE	I	DIR.FF/REW.MUTE
11	NC	-	Non connect	51	SD/ST	I	Station detector and ST input
12	E.VOL SO	O	Serial data output	52	NC	-	Non connect
13	E.VOL SCK	O	Serial clock output	53	DETACH	I	Detection of Front Panel
14	NC	-	Non connect	54	NC	-	Non connect
15	TUNER ILLUM	-	Non connect	55	J BUS INT	I	BUS interruption signal detection communication
16	TAPE ILLUM	-	Non connect	56	REMOCON	-	To GND
17	CD ILLUM	-	Non connect	57	FM/AM	I	Change over the FM/AM input
18	DIMMER OUT	-	Non connect	58	DOLBY	-	Non connect
19	NC	-	Non connect	59	NC	-	Non connect
20	NC	-	Non connect	60	MUTE	-	The mute time is controlled by the connected capacitor when changing over the FM/AM
21	NC	-	Non connect				
22	NC	-	Non connect				
23	NC	-	Non connect				
24	NC	-	Non connect	61	MEMORY DET	I	Memory detector input
25	KS1	-	Non connect	62	LEVEL METER	I	———
26	KS0	O	Initializing output port	63	SMETER	I	Signal meter input
27	K3	I	Initializing input port	64	KEY 2	I	Momentary key input
28	K2	I	Initializing input port	65	KEY1	I	Momentary key input
29	K1	-	Non connect	66	KEY0	I	Momentary key input
30	K0	I	Initializing input port	67	ACCDET	I	ACC DET
31	Vdd	-	Power supply	68	SENS	-	To GND
32	TEST	I	Test input	69	NC	I	Non connect
33	NC	-	Non connect	70	FM/AM IF COUNT	-	AM/FM Frequency detection
				71	NC	-	Non connect
				72	NC	-	Non connect
34	SEEK/STOP	O	Output the "If signal request"	73	Vdd	I	Power supply
35	MONO	O	Monaural and stereo change over output	74	AM OSC	I	Input the local oscillator signal of AM
				75	FM OSC	-	Input the local oscillator signal of FM
36	RADIO/TAPE	-	Non connect	76	Vss	-	Power supply
37	BEEP LEVEL	-	Non connect	77	NC	O	Non connect
38	POWER CNT	O	Power control output	78	EO	-	PLL Error signal output
39	Acc	-	Power supply	79	TEST 1	O	To GND
40	NC	-	Non connect	80	XOUT		Crystal oscillator



## ■ AN80T05LF (IC781) : Regulator

### 1. Terminal layout & Block diagram



### 2. Pin function

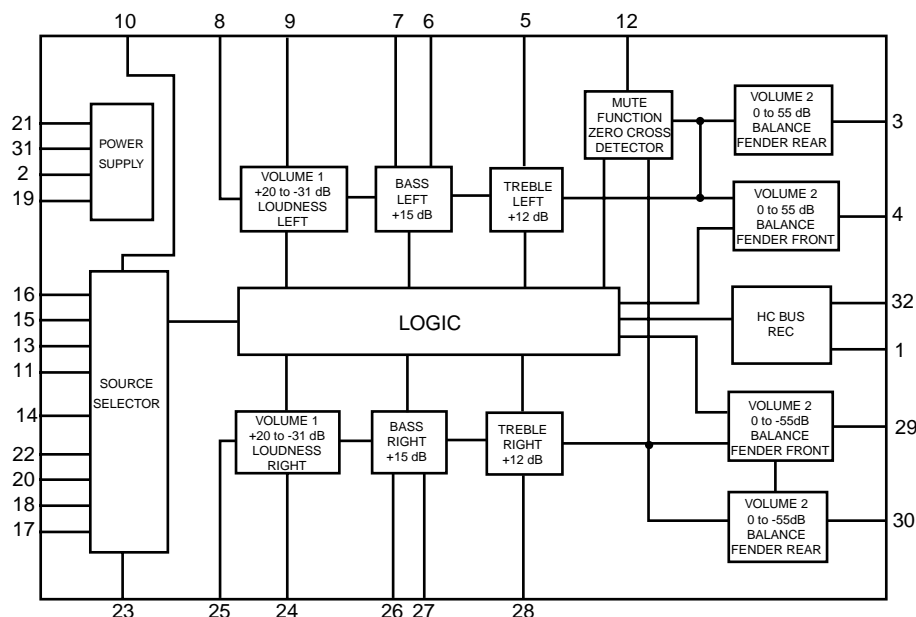
Pin No.	Symbol	Function
1	ILL	10V power supply for illumination.
2	MODE2	When 5V is input, becomes AM. and the antenna output is turned on.
3	MODE1	When 5V is input, becomes AM. and the output of FM is switched.
4	STB	When 5V is input, outputs to ILL, COM, and AMP. It is 0V usually.
5	VDD	5.6V power 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

## TEA6320T-X (IC931) : 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
			TUNER

### 2.Block diagram

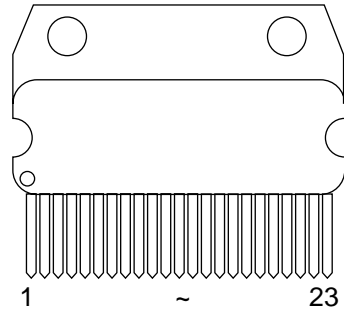


### 3.Pin functions

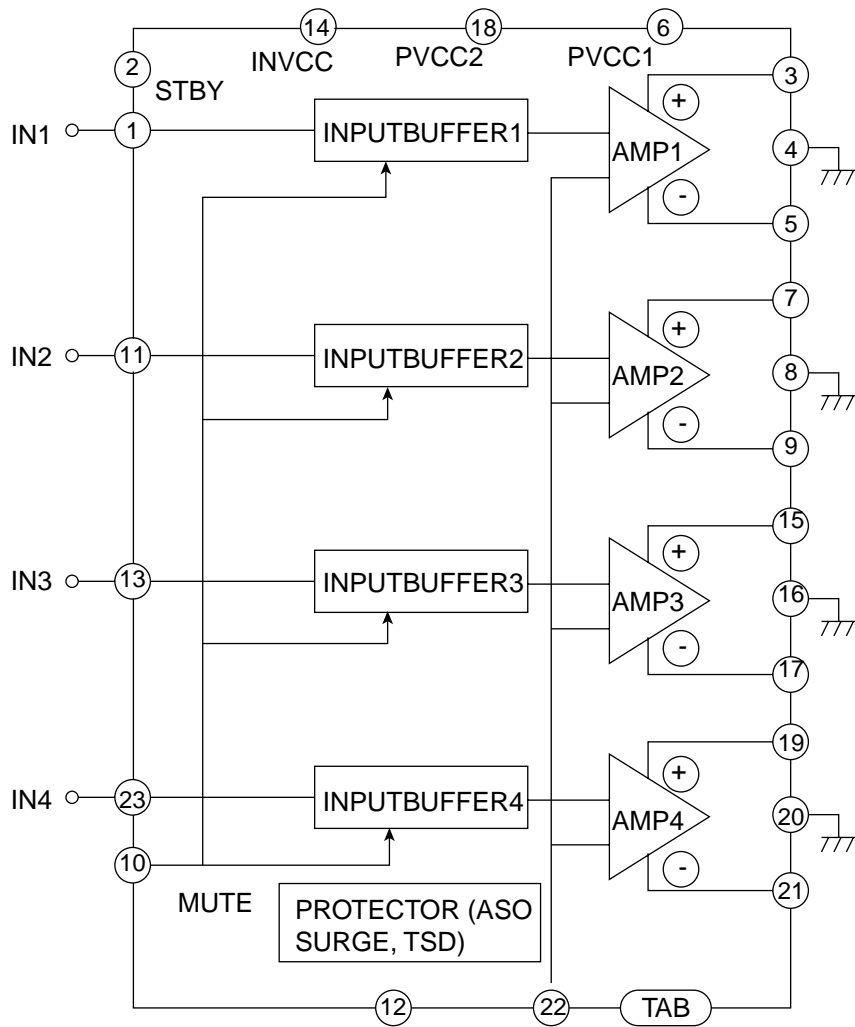
Pin No.	Symbol	I/O	Functions	Pin No.	Symbol	I/O	Functions
1	SDA	I/O	Serial data input/output.	17	IAR	I	Input A right source.
2	GND	-	Ground.	18	IBR	I	Input B right source.
3	OUTLR	O	output left rear.	19	CAP	-	Electronic filtering for supply.
4	OUTLF	O	output left front.	20	ICR	I	Input C right source.
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.

■ HA13158A (IC981) : Power amp

1. Pin layout

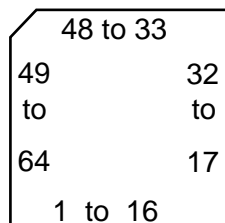


2. Block diagram

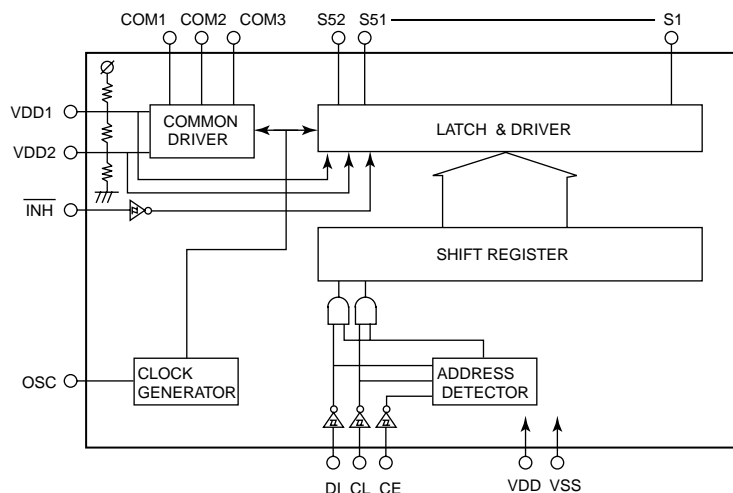


■ LC75823E(IC651):LCD DRIVER

1.Pin layout



2.Block diagram

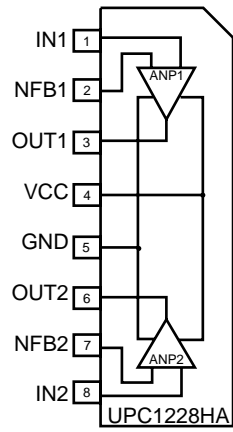


3.Pin function

PIN No.	Symbol	I/O	Functions
1 to 7		-	NOT USED
8 to 52	S10 to S52	O	Segment outputs that display data transferred from serial data.
53 to 55	COM1 to COM3	O	The frame frequency ( $f_0$ ) for the common driver output is $(f_{osc}/384)$ Hz.
56	VDD	-	Power supply
57	/INH	I	Forcibly turns off the display. regardless of internal data. Serial data can be input. whether this pin is high or low
58		-	NOT USED
59		-	NOT USED
60	VSS	-	To GND
61	OSC	I	Oscillator connection (for the common segment alternating waveform)
62	CE	I	Serial data transfer pins.connected to a microprocessor.
63	CL	I	
64	DI	I	

CE : Chip enable  
 CL : Sync.clock  
 DI : Transfer data

■ UPC1228HA(IC901):Head amp





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MOBILE ELECTRONICS DIVISION  
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1Chome,Ohwatari-machi,Maebashi-city,Japan

# JVC

# SERVICE MANUAL

## CASSETTE RECEIVER

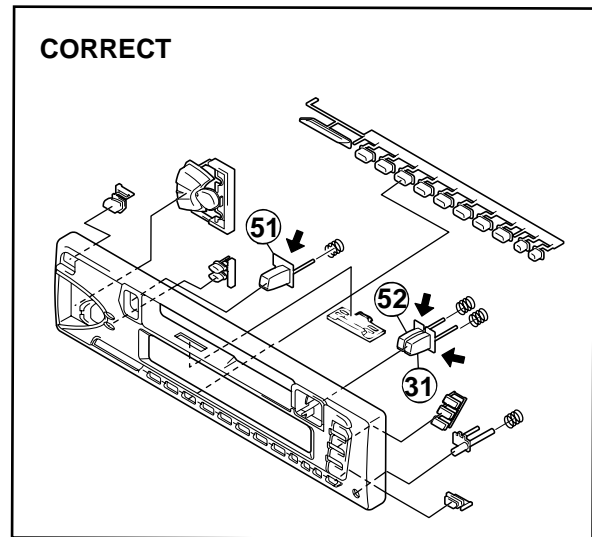
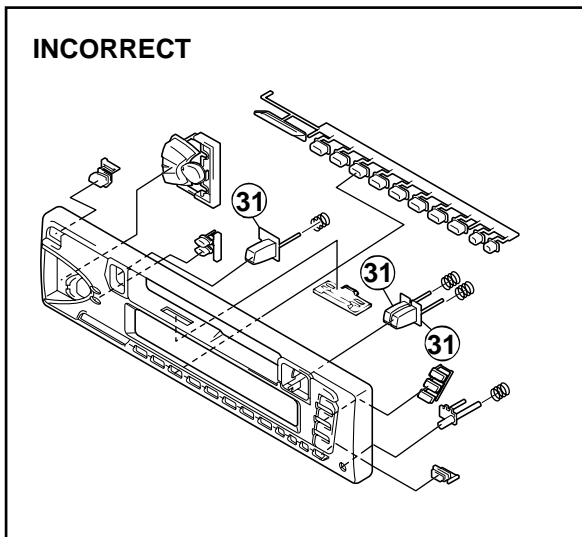
### KS-F315

#### Supplement

**Area Suffix**

EE ----- Russian Federation

**\*In this model (Issue number.49623)**  
**Please list changed to next item.Please follow the description.**



**■Parts list (General assembly)**

P3-3

Block No.M1MM

▲	Item	Parts name	Parts number		Q'ty
			Incorrect	Correct	
	31	FF BUTON	FSXP4007-00A	FSXP3006-001	1
	51	EJECT BUTTON	-----	FSXP3065-001	1
	52	REWBUTTON	-----	FSXP3067-001	1



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PARTS LIST

[ KS-F315 ]

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

Area suffix  
EE ----- Russian Federation

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Cassette mechanism assembly and parts list ..... 3- 4

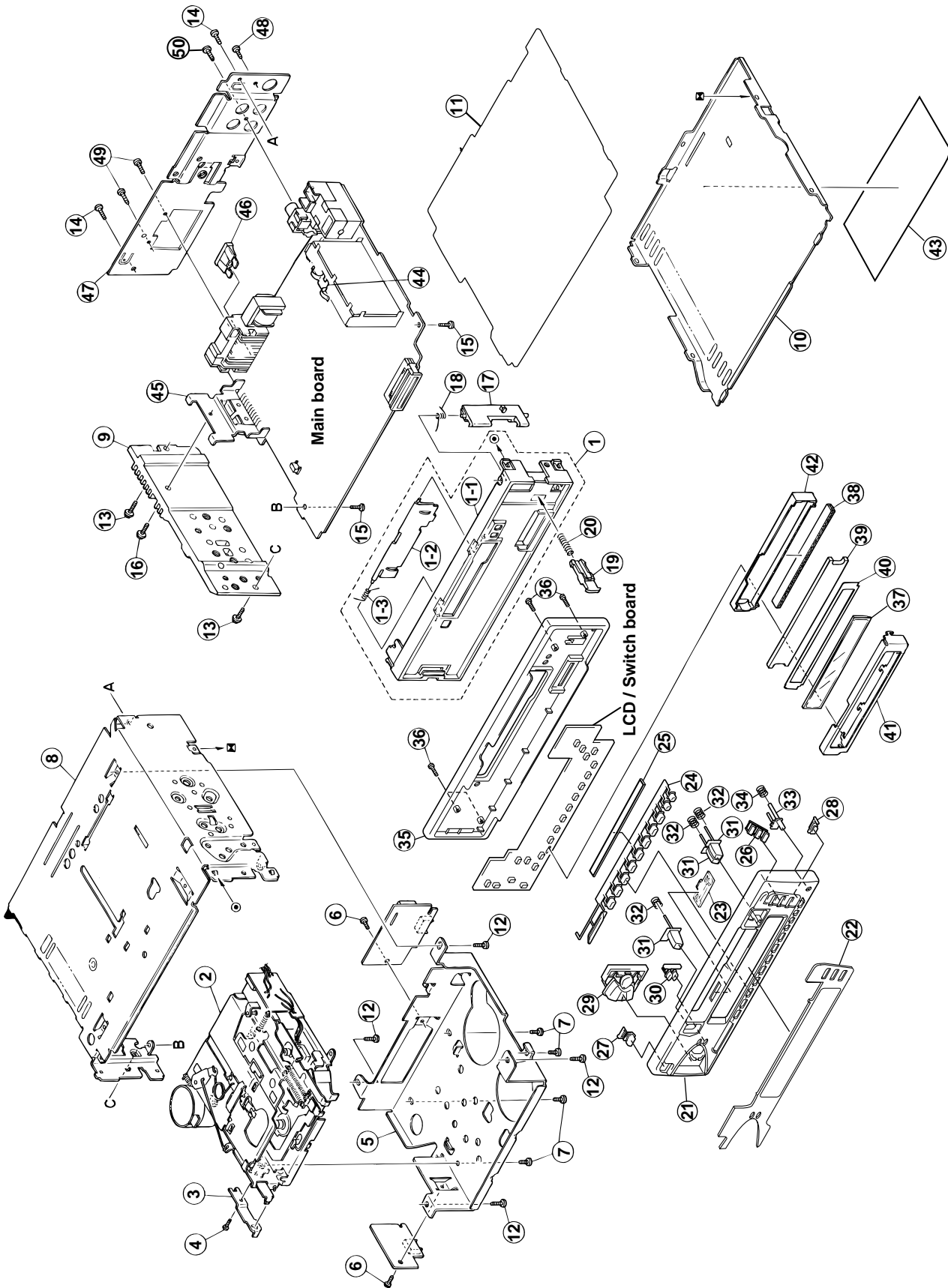
Electrical parts list ..... 3- 9

Packing materials and accessories parts list ..... 3-12



# Exploded view of general assembly and parts list

Block No. M 1 M M



**Parts list (General assembly)**

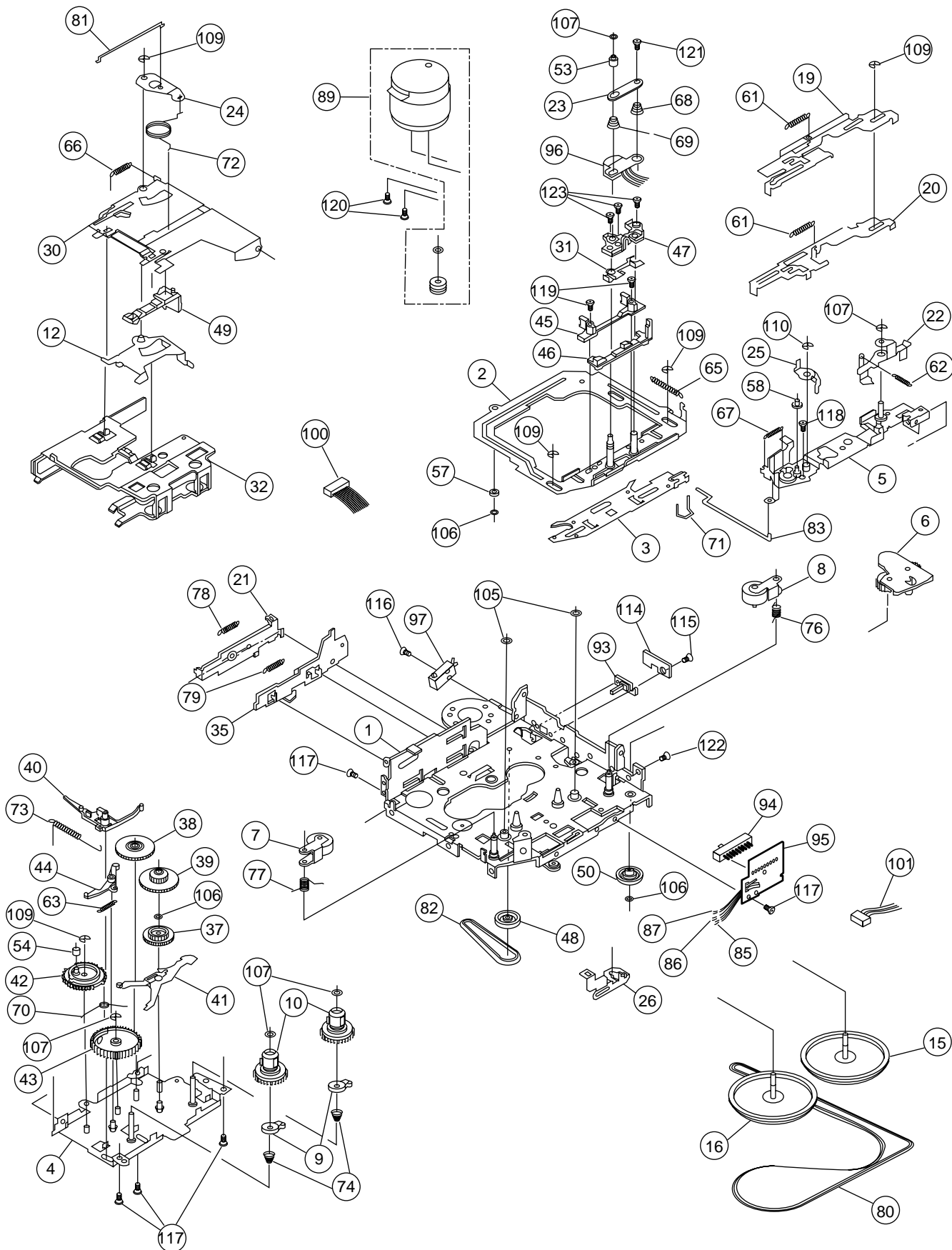
Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	ZCKSF150J-FB	FRONT CHASSIS A	1		
	1-1	FSJC1055-001	FRONT CHASSIS	1		
	1-2	FSJC4003-029	CASSETTE LID	1		
	1-3	VKW4947-002	DOOR SPRING	1		
	2	-----	CDS-363SJ1	1	MECHA W/O METAL	
	3	VKL7821-001	EJECT LEVER	1		
	4	QYSPSPT2625Z	MINI SCREW	1		
	5	FSKM2005-002	MECHA BRACKET	1		
	6	QYSDST2605Z	SCREW	2	PCB+MECHA	
	7	QYSDSP2604Z	SCREW	4	MECHA+M.BKT	
	8	FSJC1029-012	TOP CHASSIS	1		
	9	FSMH3001-201	SIDE PANEL	1		
	10	FSKM3011-002	BOTTOM COVER	1		
	11	FSMA3004-203	INSULATOR	1		
	12	QYSDST2605Z	SCREW	4	CHASSIS+MECHA BKT	
	13	FSKZ4005-001	SCREW	2	CHASSIS+SIDE PANEL	
	14	QYSDST2604Z	SCREW	2	CHASSIS+REAR BKT	
	15	QYSDST2606Z	SCREW	2	CHASSIS+MAIN PWB	
	16	FSKZ4005-001	SCREW	1	SIDE PANEL+IC BKT	
	17	FSKS3010-001	LOCK LEVER	1		
	18	FSKW4005-003	TORSION SPRING	1		
	19	FSXP3026-002	RLS KNOB	1		
	20	FSKW3002-004	COMP.SPRING	1		
	21	FSJC1053-006	FRONT PANEL	1		
	22	FSJD3022-00F	FINDER ASSY	1		
	23	FSJK3014-001	LIGHT LENS	1		
	24	FSXP2035-109	PRESET BUTTON	1		
	25	FSYH4036-031	SHEET	1	PRESET BUTTON	
	26	FSXP2034-038	D FUNC BUTTON	1	FM/AM/EX	
	27	FSXP3053-002	POWER BUTTON	1		
	28	FSXP4005-026	BBE BUTTON	1		
	29	FSXP2044-001	COMBO BUTTON	1		
	30	FSXP3068-003	PUSH BUTTON	1		
	31	FSXP4007-00A	OPERAT BUTTON	3		
	32	FSKW3002-003	COMP SPRING	3	FOR OPERAT BUTTON	
	33	FSXP3055-001	DETACH BUTTON	1		
	34	FSKW3002-012	COMP SPRING	1	FOR DETACH BUTTON	
	35	FSJC1054-001	REAR COVER	1		
	36	VKZ4777-001	MINI SCREW	4	F.PANEL+REAR COVER	
	37	QLD0145-001	LCD MODULE	1		
	38	QNZ0439-001	RUBBER CONNE	1		
	39	FSJK3034-001	LCD LENS	1		
	40	FSYH4076-001	LIGHTING SHEET	1		
	41	FSYH3022-001	LCD CASE	1		
	42	FSKS3021-001	LENS CASE	1		
	43	GE30129-002A	NAME PLATE	1		
	44	VMA4652-001SS	EARTH PLATE	1		
	45	FSKL4018-00B	IC BRACKET	1		
△	46	QMFZ047-100-T	FUSE	1		
	47	FSKM3010-013	REAR BRACKET	1		
	48	QYSDST2606Z	SCREW	1	REAR BKT+ANT JACK	
	49	QYSDST2606Z	SCREW	2	REAR BKT+15P CN	
	50	QYSDSF3006Z	SCREW	1	REAR BKT+PIN JACK	

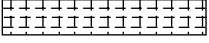

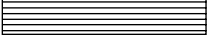


# Cassette mechanism assembly and parts list

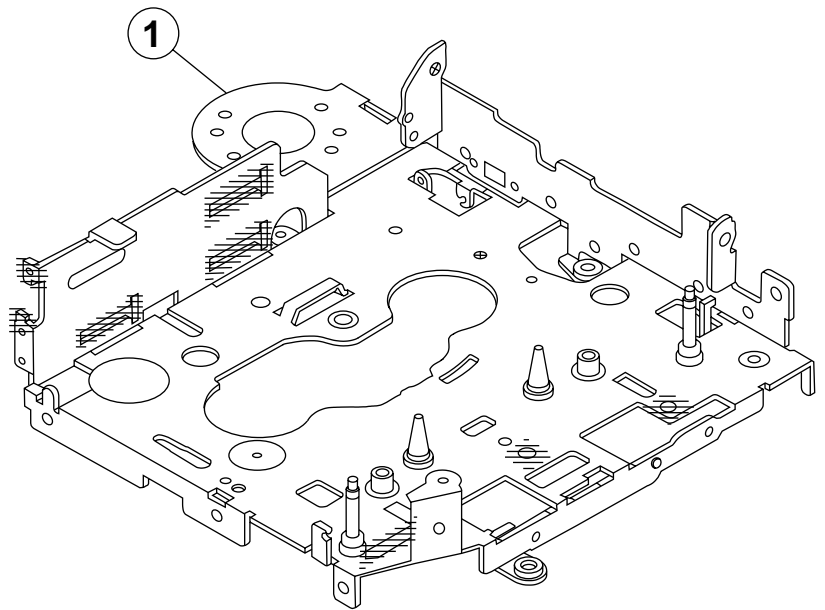
CDS-363SJ1

Block No. M 2 M M

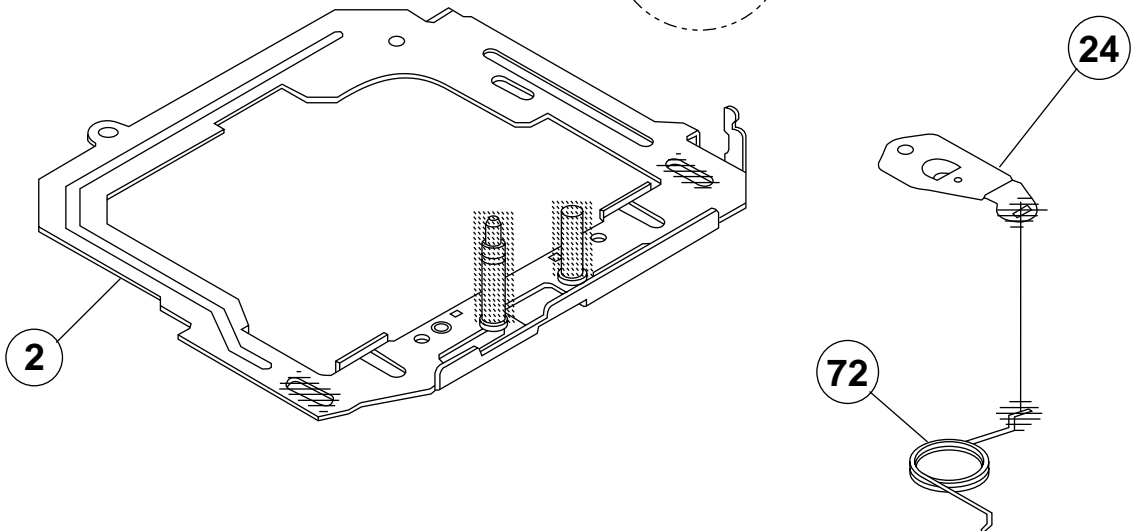
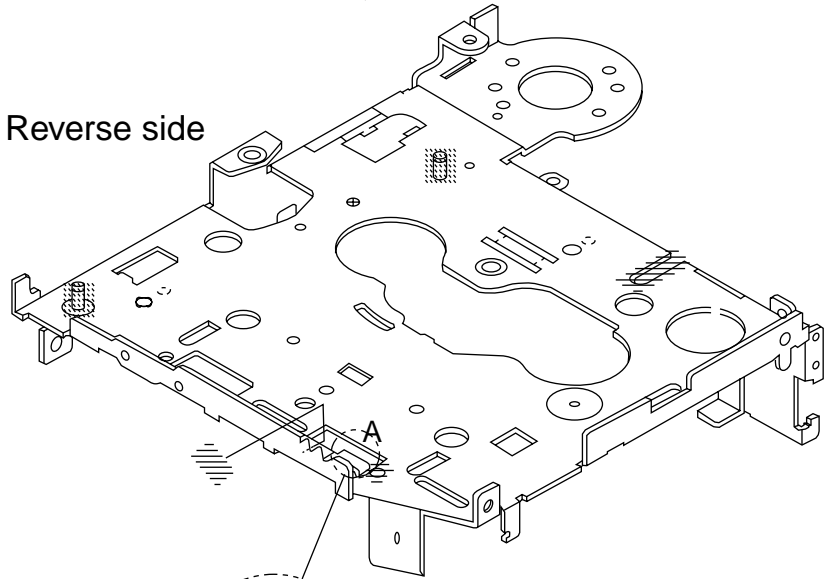


# Grease point 1/2

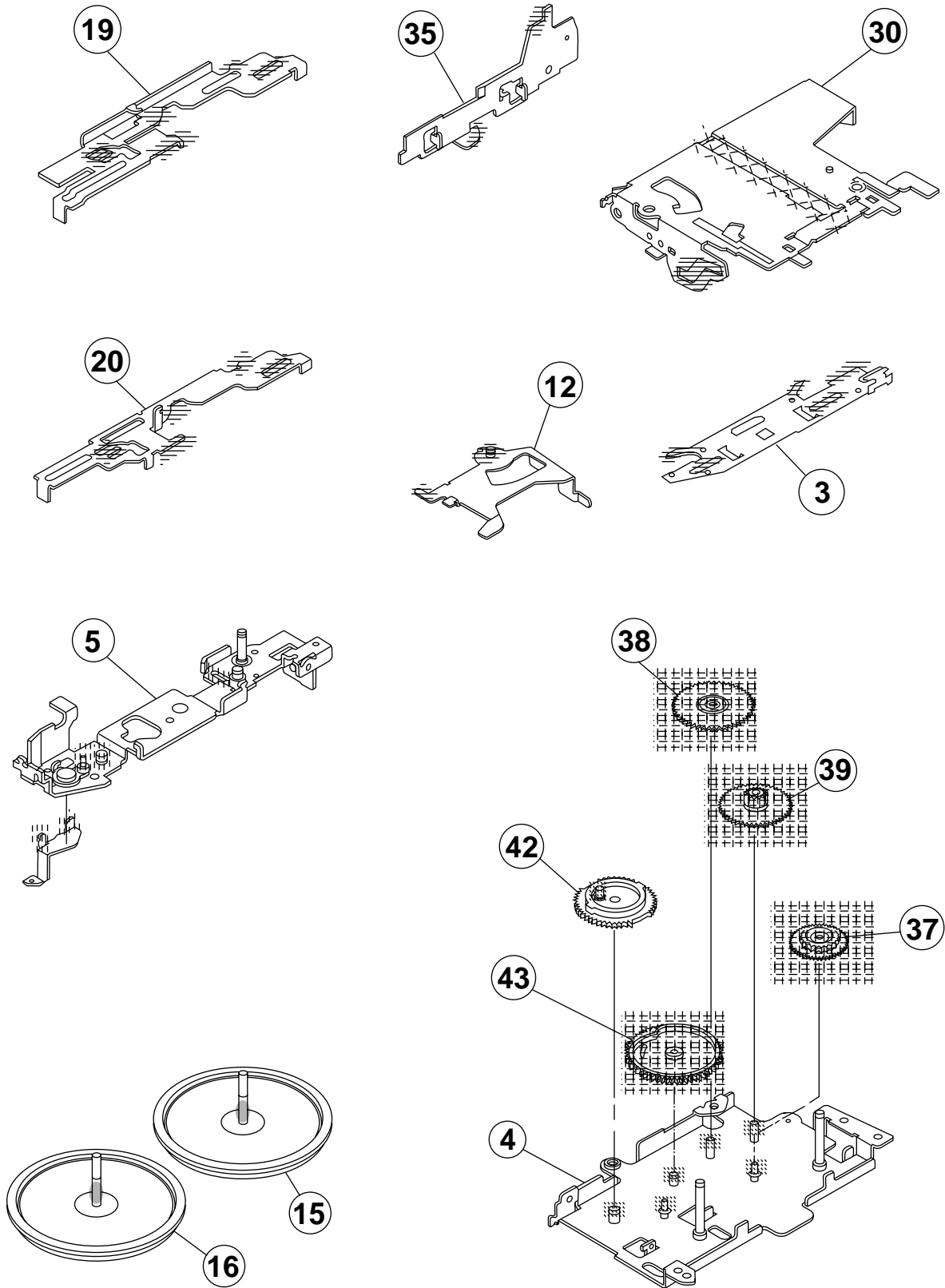
Grease	
	FL-942
	SW-902
	SW522B
	FG-84M
	C68



Reverse side



# Grease point 2/2



**Parts list (Cassette mechanism)**

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	X-0363-1001S	MAIN CHASSIS AS	1		
	2	X-0363-1002S	HEAD PLATE ASSY	1		
	3	X-0363-1004S	FR CONVERT ARM	1	(A)	
	4	X-0363-6001S	REEL BASE ASSY	1		
	5	X-0363-6007S	LEVER BRACKET	1	(HD)	
	6	X-0363-6003S	TU GEAR ARM ASS	1		
	7	X-0363-6004S	PINCH ARM(R) AS	1		
	8	X-0363-6005S	PINCH ARM(F) AS	1		
	9	X-0363-6006S	DETECTOR CAM AS	2	(V)	
	10	X-0363-2005S	REEL SPINDLE AS	2		
	12	X-0363-1019S	EJ.CAM LOCK ASS	1		
	15	1-0363-6010S	FLYWHEEL ASSY(F	1	CPL	
	16	1-0363-6011S	FLYWHEEL ASSY(R	1	CPL	
	19	1-0036-1065S	FF LEVER(JVC)	1		
	20	1-0036-1066S	REW LEVER(JVC)	1		
	21	1-0036-1007S	EJECT LEVER	1		
	22	1-0036-1013S	LOCK ARM	1		
	23	1-0036-1015S	SPG SUPPORT PLT	1		
	24	1-0036-1018S	CENTER PLATE	1		
	25	1-0036-1023S	CHANGE LEVER(B)	1		
	26	1-0036-1026S	FR ARM(B)	1		
	30	1-0138-1002S	CASSETTE HANGER	1	(X)	
	31	1-0138-1006S	ADJUSTER SHIM	1	(X)	
	32	1-0138-1010S	CASSETTE HOLDER	1	(X)	
	35	1-0363-1003S	EJECT CAM	1		
	37	1-0036-2001S	IDLE GEAR	1		
	38	1-0036-2003S	REDUCTION GEAR	1	(B)	
	39	1-0036-2004S	REDUCTION GEAR	1	(A)	
	40	1-0036-2007-5S	RATCHET	1		
	41	1-0036-2009S	SENSOR ARM	1		
	42	1-0036-2010S	SELECTOR GEAR	1		
	43	1-0036-2014S	DETECTOR GEAR	1		
	44	1-0038-2014S	GEAR LOCK ARM	1		
	45	1-0038-2018S	TAPE GUIDE	1		
	46	1-0363-2006S	ADJUSTER LINK(B	1		
	47	1-0138-2005-3S	ADJUSTER ARM	1	BLUE	
	48	1-0036-2005S	PULLEY GEAR	1		
	49	1-0032-2007S	TAPE HOOKER	1		
	50	1-0058-2021-5S	IDLE PULLEY(A)	1		
	53	1-0363-3018S	FF ROLLER	1		
	54	1-0036-3018S	COLLAR	1	(SELECTOR GEAR)	
	57	1-0363-3007S	HP ROLLER(A)	1		
	58	1-0363-3011S	PROGRAM ROLLER	1		
	61	1-0036-4001S	FF/REW LEVER SP	2		
	62	1-0036-4002S	LOCK LEVER SPG	1		
	63	1-0036-4003S	G.LOCK ARM SPG	1		
	65	1-0036-4006S	HEAD PLATE SPG	1		
	66	1-0036-4007S	EJ.CAM LOCK SPG	1		

**Parts list (Cassette mechanism)**

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	67	1-0036-4008S	PROGRAM ARM SPG	1		
	68	1-0036-4010S	ADJUSTER ARM SP	1	(A)	
	69	1-0036-4011S	ADJUSTER ARM SP	1	(B)	
	70	1-0036-4015S	DASH SPG	1		
	71	1-0036-4017S	S.SELECT ARM SP	1		
	72	1-0036-4023S	CENTER PLT SP(B	1		
	73	1-0038-4014S	RATCHET SPG	1		
	74	1-0138-4001S	BACK TENSION SP	2		
	76	1-0363-4003S	PINCH ARM SPG F	1		
	77	1-0363-4004S	PINCH ARM SPG R	1		
	78	1-0363-4005S	EJECT LEVER SPG	1		
	79	1-0036-4005S	EJECT CAM SPG	1		
	80	1-0036-5020S	MAIN BELT(AL)	1		
	81	1-0363-5007S	RETURN LINK	1		
	82	1-0036-5001S	SUB BELT	1		
	83	1-0363-5003S	SELECTOR LINK(B	1		
	85	1-0036-7002S	WIRE(A)	1	BLACK 60MM	
	86	1-0036-7003S	WIRE(B)	1	RED 60MM	
	87	1-0036-7073S	WIRE(AL)	1	YELLOW 55MM	
	89	X-0363-7006S	MOTOR ASSY	1		
	93	1-0363-7001S	MUTE SWITCH	1		
	94	1-0363-7002S	SLIDE SWITCH	1		
	95	1-0363-7008S	SLIDE SW PWB	1		
	96	1-0036-7016S	HEAD	1		
	97	1-0363-7005S	POWER SWITCH	1		
	100	1-0036-7089S	6P WIRE ASY(JVC	1		
	101	1-0036-7088S	5P WIRE ASY(JVC	1		
	105	2-1816-0032-E8S	LMW-S	2		
	106	2-1812-0030-D2S	PSW-S	3		
	107	1-0036-5024S	PSW(REEL)B	5		
	109	2-1712-0050-16S	E RING	5		
	110	2-1712-5060-16S	E RING	1		
	114	1-0363-7015S	MUTE SW PWB	1		
	115	2-1331-7040-C2S	SCREW S	1		
	116	2-1331-7060-C2S	SCREW S	1		
	117	2-1382-0030-C2S	SCREW B	5		
	118	2-1332-0040-C1S	SCREW S	1		
	119	2-1032-0070-C2S	SCREW	2		
	120	2-1032-0025-C2S	SCREW	2		
	121	2-1012-0040-C2S	SCREW	1		
	122	2-1012-0030-F2S	SCREW	1		
	123	1-0138-5002S	AZIMUTH SCREW	3		

## ■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	C 2	QDX11EK-223Z	C CAPACITOR				C 971	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 3	QEKJ1HM-104Z	E CAPACITOR	.10MF 20% 50V			C 972	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 4	QEKJ1HM-104Z	E CAPACITOR	.10MF 20% 50V			C 981	QEZ0337-228	E CAPACITOR	2200MF	
	C 5	QEK41CM-106	E CAPACITOR	10MF 20% 16V			C 982	QDYB1CM-103Y	C CAPACITOR		
	C 6	QDX11EK-223Z	C CAPACITOR				C 983	QDYB1CM-103Y	C CAPACITOR		
	C 7	QDX11EK-223Z	C CAPACITOR				C 984	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 8	QERF1HM-104Z	E CAPACITOR	.10MF 20% 50V			C 985	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	C 9	QDYB1CM-103Y	C CAPACITOR				C 986	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 11	QDYB1CM-103Y	C CAPACITOR				C 987	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 15	QDYB1CM-103Y	C CAPACITOR				C 988	QER41CM-476	E CAPACITOR	47MF 20% 16V	
	C 101	QDGB1HK-821Y	C CAPACITOR				CJ701	VMC0334-001	CONNECTOR	TO FRONT PANEL	
	C 102	QEK41HM-474	E CAPACITOR	.47MF 20% 50V			CJ901	QGA2002C1-05	CONNECTOR		
	C 103	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V			CJ921	QNN0183-001	PIN JACK		
	C 104	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V			CN721	QGB1214J1-06S	CONNECTOR	TO MECHA	
	C 105	QFV61HJ-103Z	MF CAPACITOR	.010MF 5% 50V			CN901	QGB1214J1-06S	CONNECTOR	TO MECHA	
	C 131	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V			CP721	QGB1214K1-06S	CONNECTOR		
	C 132	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V			CP722	QGA2002F1-06	CONNECTOR		
	C 134	QFLK1HJ-822Z	M CAPACITOR	8200PF 5% 50V			CP901	QGB1214K1-06S	CONNECTOR		
	C 135	QFV61HJ-154Z	MF CAPACITOR	.15MF 5% 50V			CP981	QNZ0002-001	16P CONNECTOR		
	C 136	QFV61HJ-224Z	MF CAPACITOR	.22MF 5% 50V			D 1	1SS119-041	SI DIODE		
	C 137	QFV61HJ-333Z	MF CAPACITOR	.033MF 5% 50V			D 2	1SS119-041	SI DIODE		
	C 138	QFLK1HJ-562Z	M CAPACITOR	5600PF 5% 50V			D 161	1SS119-041	SI DIODE		
	C 150	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			D 261	1SS119-041	SI DIODE		
	C 152	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V			D 704	MTZJ5.6B-T2	ZENER DIODE		
	C 160	QEKJ1HM-105Z	E CAPACITOR	1.0MF 20% 50V			D 705	MTZJ5.6B-T2	ZENER DIODE		
	C 162	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V			D 706	MTZJ5.6B-T2	ZENER DIODE		
	C 201	QDGB1HK-821Y	C CAPACITOR				D 707	MTZJ5.6B-T2	ZENER DIODE		
	C 202	QERF1HM-474Z	E CAPACITOR	.47MF 20% 50V			D 708	MTZJ5.6B-T2	ZENER DIODE		
	C 203	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V			D 709	MTZJ5.6B-T2	ZENER DIODE		
	C 204	QEKJ0JM-476Z	E CAPACITOR	47MF 20% 6.3V			D 711	MTZJ5.6B-T2	ZENER DIODE		
	C 205	QFV61HJ-103Z	MF CAPACITOR	.010MF 5% 50V			D 716	1SS119-041	SI DIODE		
	C 231	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			D 718	1SS119-041	SI DIODE		
	C 232	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			D 719	QUY150-050Y	BUS WIRE		
	C 234	QFLK1HJ-822Z	M CAPACITOR	8200PF 5% 50V			D 771	MTZJ9.1C-T2	Z DIODE		
	C 235	QFV61HJ-154Z	MF CAPACITOR	.15MF 5% 50V			D 781	1SS119-041	SI DIODE		
	C 236	QFV61HJ-224Z	MF CAPACITOR	.22MF 5% 50V			D 782	1SS119-041	SI DIODE		
	C 237	QFV61HJ-333Z	MF CAPACITOR	.033MF 5% 50V			D 784	DSK10C-T1	DIODE		
	C 238	QFLK1HJ-562Z	M CAPACITOR	5600PF 5% 50V			D 785	DSK10C-T1	DIODE		
	C 250	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			D 786	DSK10C-T1	DIODE		
	C 252	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V			D 791	1SS119-041	SI DIODE		
	C 260	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			D 792	1SS119-041	SI DIODE		
	C 262	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V			D 973	1SS119-041	SI DIODE		
	C 701	QDUB1HJ-270Y	C CAPACITOR				D 974	1SS119-041	SI DIODE		
	C 702	QDCB1HJ-220Y	C CAPACITOR				D 981	1N5401-TM	DIODE		
	C 703	QERF0JM-107Z	E CAPACITOR	100MF 20% 6.3V			D 990	MTZ11B-T2	SI DIODE		
	C 704	QFV61HJ-224Z	MF CAPACITOR	.22MF 5% 50V			IC701	LC72362N-9997	IC		
	C 705	QER41CM-106	E CAPACITOR	10MF 20% 16V			IC781	AN80T05LF	IC	REGULATOR	
	C 706	QDYB1CM-103Y	C CAPACITOR				IC901	UPC1228HA	IC		
	C 707	QFV61HJ-103Z	MF CAPACITOR	.010MF 5% 50V			IC931	TEA6320T-X	IC		
	C 771	QER41AM-227	E CAPACITOR	220MF 20% 10V			IC981	HA13158A	IC		
	C 772	QERF1HM-225Z	E CAPACITOR	2.2MF 20% 50V			J 1	QNZ0009-001	CAR ANT JACK		
	C 773	QDGB1HK-102Y	C CAPACITOR				L 1	QQL231K-4R7Y	INDUCTOR		
	C 781	QEK41CM-106	E CAPACITOR	10MF 20% 16V			L 781	QQL231K-470Y	INDUCTOR		
	C 783	QETN0JM-228Z	E CAPACITOR	2200MF 20% 6.3V			L 782	QQL231K-470Y	INDUCTOR		
	C 784	QER41AM-227	E CAPACITOR	220MF 20% 10V			L 783	QQL231K-470Y	INDUCTOR		
	C 785	QER41HM-105	E CAPACITOR	1.0MF 20% 50V			L 981	QQR0704-001	CHOKE COIL		
	C 786	QETM1AM-228	E CAPACITOR	2200MF 20% 10V			Q 1	2SA1706/ST-T	TRANSISTOR		
	C 901	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V			Q 2	KRC102M-T	D TRANSISTOR		
	C 931	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V			Q 3	KTA1267/YG/-T	TRANSISTOR		
	C 932	QDYB1CM-103Y	C CAPACITOR				Q 5	KRC102M-T	D TRANSISTOR		
	C 933	QER41AM-107	E CAPACITOR	100MF 20% 10V			Q 161	2SD2144S/VW-T	TRANSISTOR		
	C 934	QER41CM-476	E CAPACITOR	47MF 20% 16V			Q 261	2SD2144S/VW-T	TRANSISTOR		
	C 951	QERF1EM-475Z	E CAPACITOR	4.7MF 20% 25V			Q 701	KTC3199/GL-T	TRANSISTOR		



## ■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	Q 771	KTC3199/GL/-T	TRANSISTOR		
	Q 772	KTC3199/GL/-T	TRANSISTOR		
	Q 781	KRC102M-T	D TRANSISTOR		
	Q 782	2SA1706/ST/-T	TRANSISTOR		
	Q 783	KRC102M-T	D TRANSISTOR		
	Q 784	2SA1706/ST/-T	TRANSISTOR		
	Q 789	KRA102M-T	D TRANSISTOR		
	Q 971	KRC102M-T	D TRANSISTOR		
	Q 972	KRA102M-T	D TRANSISTOR		
	Q 987	KRA102M-T	D TRANSISTOR		
	Q 988	KRC102M-T	D TRANSISTOR		
	Q 989	KRA102M-T	D TRANSISTOR		
	R 1	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 2	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 3	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 4	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 5	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 6	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 9	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 14	QRE141J-155Y	C RESISTOR	1.5M 5% 1/4W	
	R 15	QRE141J-475Y	C RESISTOR	4.7M 5% 1/4W	
	R 17	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 18	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 51	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 52	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 61	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 62	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 101	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 103	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 104	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 131	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 132	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 151	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 152	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 161	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 162	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 163	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
	R 164	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 165	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 201	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 203	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 204	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 231	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 232	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 251	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 252	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 261	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 262	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 263	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
	R 264	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 265	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 702	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 703	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 704	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 705	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 707	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 708	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 709	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 710	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 712	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 713	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 714	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 715	QRE141J-101Y	C RESISTOR	100 5% 1/4W	

△	Item	Parts number	Parts name	Remarks	Area
	R 716	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 717	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 718	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 719	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 720	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 721	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 722	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 723	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 724	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 725	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 726	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 727	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 751	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 753	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 754	QRE141J-334Y	C RESISTOR	330K 5% 1/4W	
	R 757	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 758	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 761	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 762	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 763	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 764	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 771	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 772	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 773	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 774	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 783	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 784	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 785	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 786	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 787	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 788	QRE141J-242Y	C RESISTOR	2.4K 5% 1/4W	
	R 789	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 790	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R 792	QRE141J-6R8Y	C RESISTOR	6.8 5% 1/4W	
	R 795	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 796	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 797	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 901	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 931	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R 951	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 971	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 972	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 990	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	TU 1	QAU0221-001	FM FRONT END		
	X 701	QAX0406-001Z	CRYSTAL		

■ Electrical parts list (Front board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area
	C 651	NCB21EK-104X	C CAPACITOR		
	C 652	NBE20JM-475X	TS E CAPACITOR		
	C 653	NCB21HK-681X	C CAPACITOR		
	CP701	VMC0335-001	CONNECTOR		
	D 601	LNJ308G81/1-3/X	LED		
	D 602	LNJ308G81/1-3/X	LED		
	D 603	LNJ308G81/1-3/X	LED		
	D 604	LNJ308G81/1-3/X	LED		
	D 605	LNJ308G81/1-3/X	LED		
	D 609	LNJ308G81/1-3/X	LED		
	D 610	LNJ308G81/1-3/X	LED		
	D 611	LNJ308G81/1-3/X	LED		
	D 612	LNJ308G81/1-3/X	LED		
	D 613	LNJ308G81/1-3/X	LED		
	D 614	LNJ308G81/1-3/X	LED		
	D 615	LNJ308G81/1-3/X	LED		
	D 616	LNJ308G81/1-3/X	LED		
	D 618	LNJ308G81/1-3/X	LED		
	D 619	LNJ308G81/1-3/X	LED		
	D 620	LNJ308G81/1-3/X	LED		
	D 621	LNJ308G81/1-3/X	LED		
	D 622	LNJ308G81/1-3/X	LED		
	D 623	SML-310LT/MN-X	LED		
	D 624	LNJ308G81/1-3/X	LED		
	IC651	LC75823W	IC		
	PL601	QLL0070-001	PILOT LAMP		
	PL603	QLL0070-001	PILOT LAMP		
	R 601	NRSA02J-271X	MG RESISTOR		
	R 602	NRSA02J-331X	MG RESISTOR		
	R 603	NRSA02J-391X	MG RESISTOR		
	R 604	NRSA02J-471X	MG RESISTOR		
	R 605	NRSA02J-561X	MG RESISTOR		
	R 606	NRSA02J-271X	MG RESISTOR		
	R 607	NRSA02J-331X	MG RESISTOR		
	R 608	NRSA02J-391X	MG RESISTOR		
	R 609	NRSA02J-471X	MG RESISTOR		
	R 610	NRSA02J-561X	MG RESISTOR		
	R 611	NRSA02J-821X	MG RESISTOR		
	R 612	NRSA02J-271X	MG RESISTOR		
	R 613	NRSA02J-331X	MG RESISTOR		
	R 614	NRSA02J-391X	MG RESISTOR		
	R 615	NRSA02J-471X	MG RESISTOR		
	R 616	NRSA02J-561X	MG RESISTOR		
	R 617	NRSA02J-821X	MG RESISTOR		
	R 621	NRSA02J-103X	MG RESISTOR		
	R 622	NRSA02J-103X	MG RESISTOR		
	R 623	NRSA02J-103X	MG RESISTOR		
	R 631	NRSA02J-821X	MG RESISTOR		
	R 632	NRSA02J-821X	MG RESISTOR		
	R 633	NRSA02J-821X	MG RESISTOR		
	R 634	NRSA02J-821X	MG RESISTOR		
	R 640	NRSA02J-331X	MG RESISTOR		
	R 641	NRSA02J-331X	MG RESISTOR		
	R 642	NRSA02J-821X	MG RESISTOR		
	R 644	NRSA02J-821X	MG RESISTOR		
	R 646	NRSA02J-821X	MG RESISTOR		
	R 648	NRSA02J-821X	MG RESISTOR		
	R 650	NRSA02J-511X	MG RESISTOR		
	R 651	NRSA02J-511X	MG RESISTOR		
	R 661	NRSA02J-152X	MG RESISTOR		
	R 662	NRSA02J-473X	MG RESISTOR		
	R 663	NRSA02J-154X	MG RESISTOR		
	S 601	NSW0066-001X	TACT SWITCH		

△	Item	Parts number	Parts name	Remarks	Area
	S 602	NSW0066-001X	TACT SWITCH		
	S 603	NSW0066-001X	TACT SWITCH		
	S 604	NSW0066-001X	TACT SWITCH		
	S 605	NSW0066-001X	TACT SWITCH		
	S 606	NSW0066-001X	TACT SWITCH		
	S 607	NSW0066-001X	TACT SWITCH		
	S 608	NSW0066-001X	TACT SWITCH		
	S 609	NSW0066-001X	TACT SWITCH		
	S 610	NSW0066-001X	TACT SWITCH		
	S 611	NSW0066-001X	TACT SWITCH		
	S 612	NSW0066-001X	TACT SWITCH		
	S 613	NSW0066-001X	TACT SWITCH		
	S 614	NSW0066-001X	TACT SWITCH		
	S 615	NSW0066-001X	TACT SWITCH		
	S 616	NSW0066-001X	TACT SWITCH		
	S 617	NSW0066-001X	TACT SWITCH		
	S 618	NSW0066-001X	TACT SWITCH		
	S 619	NSW0066-001X	TACT SWITCH		
	S 620	NSW0066-001X	TACT SWITCH		

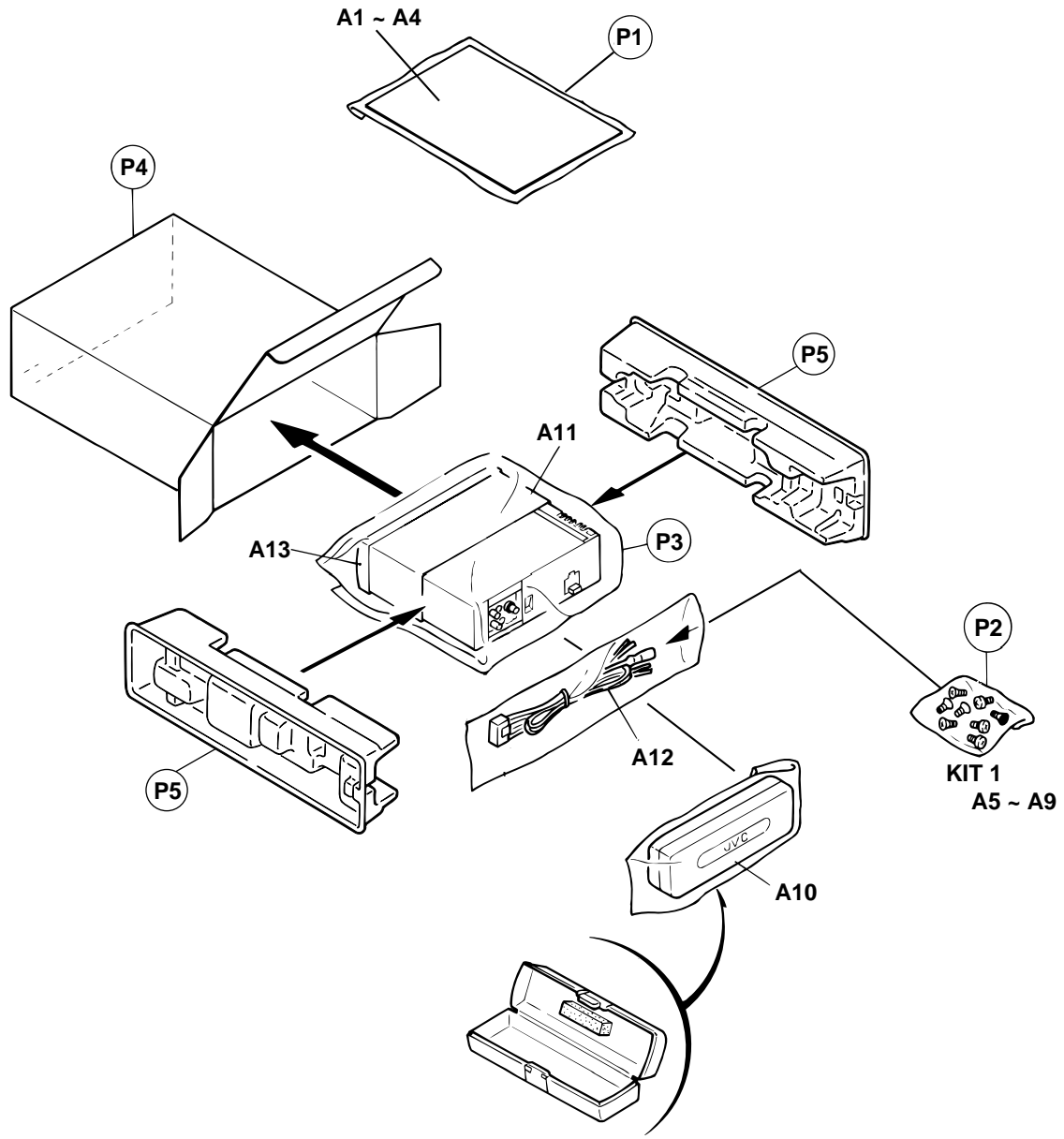
# Packing materials and accessories parts list

Block No. 

M	3	M	M
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Block No. 

M	4	M	M
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**Parts list (Packing)**

Block No. M3MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	FSPG4002-001	POLY BAG	1	FOR INST BOOK	
	P 2	QPA00801205	POLY BAG	1	FOR SCREW KIT	
	P 3	QPC03004315P	POLY BAG	1	FOR SET	
	P 4	GE30123-027A	CARTON	1		
	P 5	FSPH1018-002	PAPER CUSHION	2	LEFT/RIGHT SIDE	

**Parts list (Accessories)**

Block No. M4MM

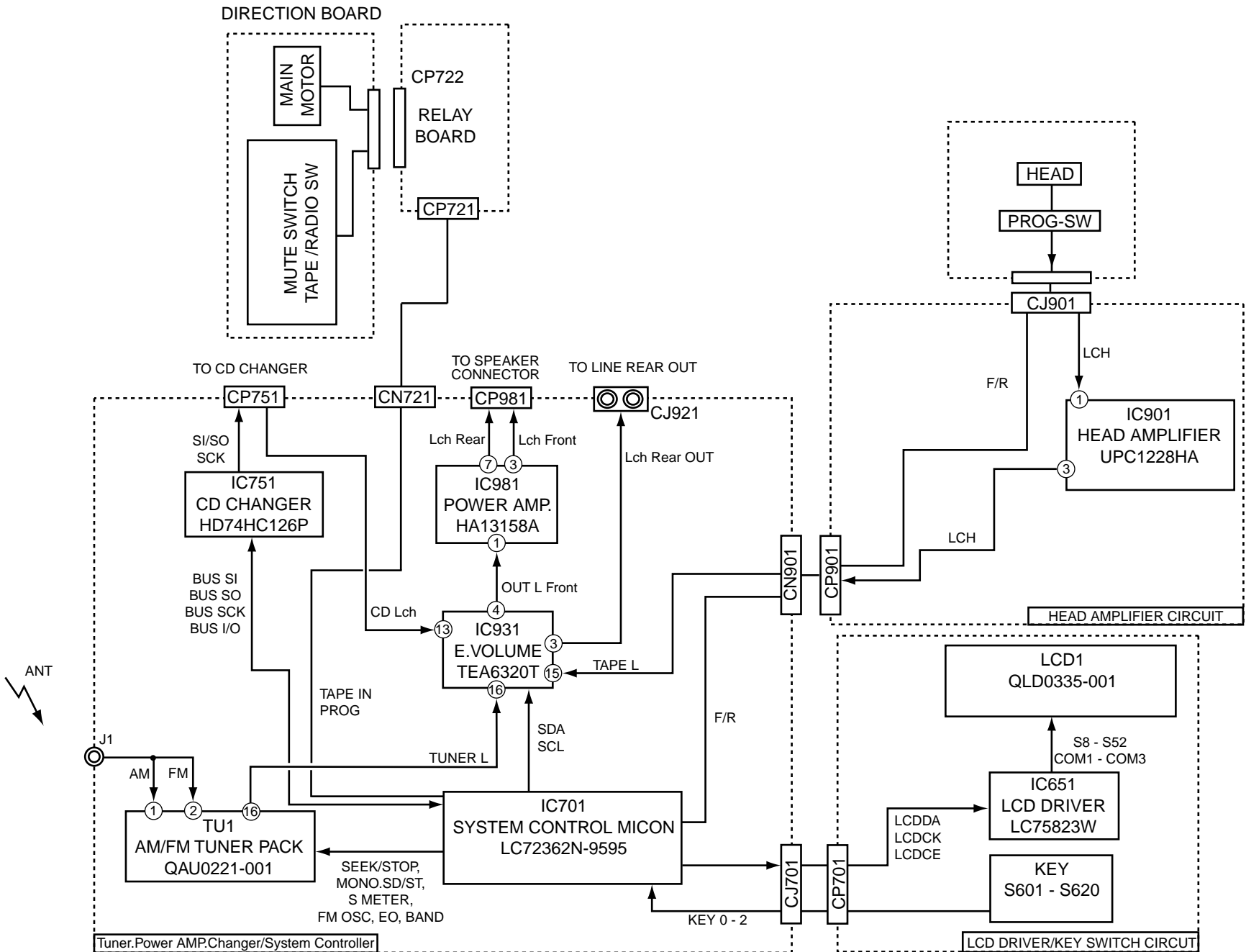
△	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	GET0002-001A	INST.BOOK	1	ENG RUS	
	A 2	GET0002-002A	INSTALL MANUAL	1	ENG RUS	
	A 3	LV40978-001A	CAUTION SHEET	1		
	A 4	BT-54013-1	WARRANTY CARD	1		
	A 5	VKZ4027-202	PLUG NUT	1		
	A 6	VKH4871-001SS	MOUNT BOLT	1		
	A 7	VKZ4328-001	LOCK NUT	1	FOR M5	
	A 8	WNS5000Z	WASHER	1		
	A 9	FSKL4010-002	HOOK	2		
	A 10	FSJB3002-30C	HARD CASE	1		
	A 11	FSKM2004-202	MOUNTING SLEEVE	1		
	A 12	QAM0089-001	16P CORD ASSY	1		
	A 13	FSJD2034-001	TRIM PLATE	1		
	KIT 1	KDGS717K-SCREW1	SCREW PARTS KIT	1	A5-A9	

A

B

C

1 2 3 4 5

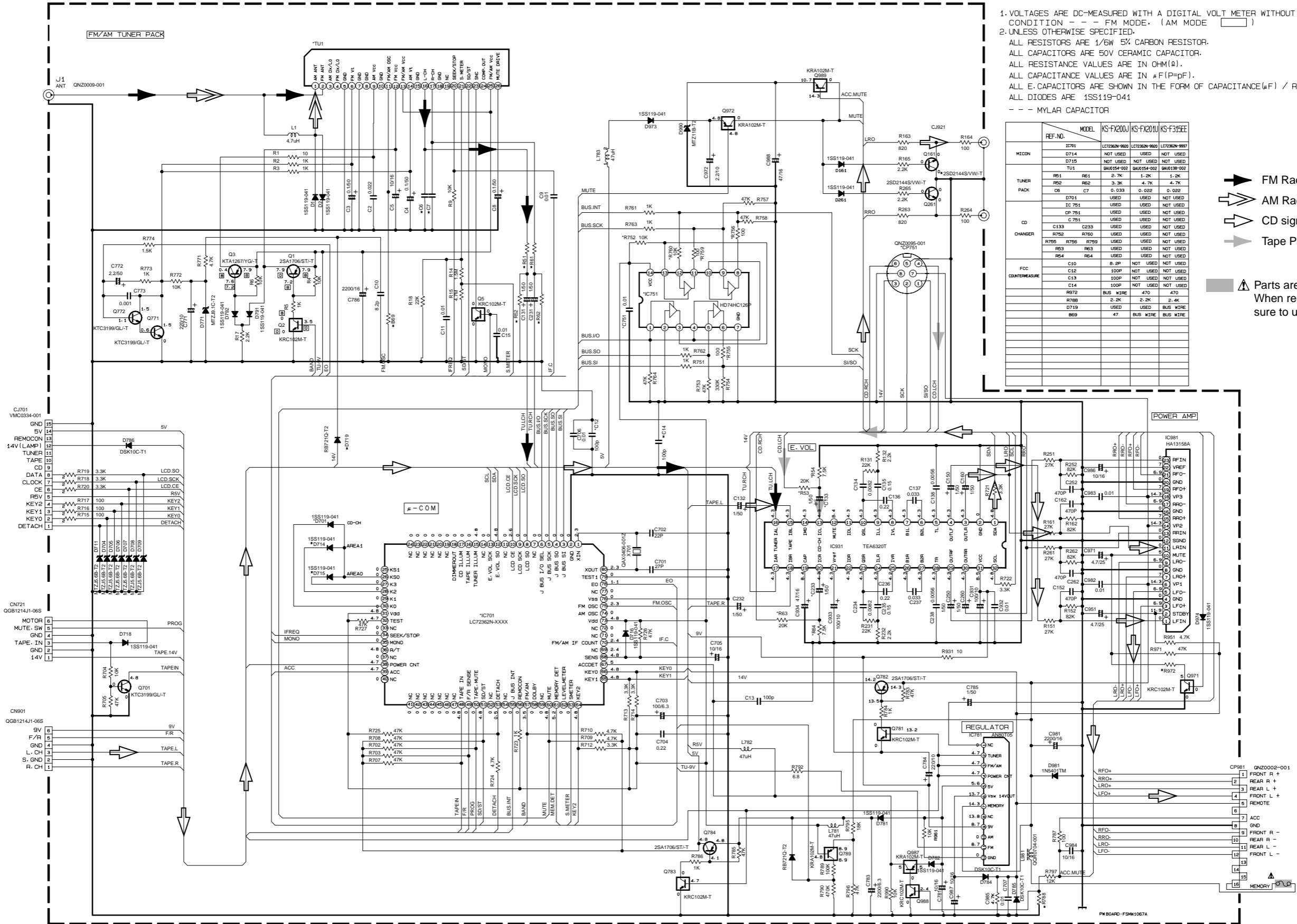


< M E M O >

# Standard schematic diagrams

## Receiver & operation switch circuit section

5  
4  
3  
2  
1



NOTES

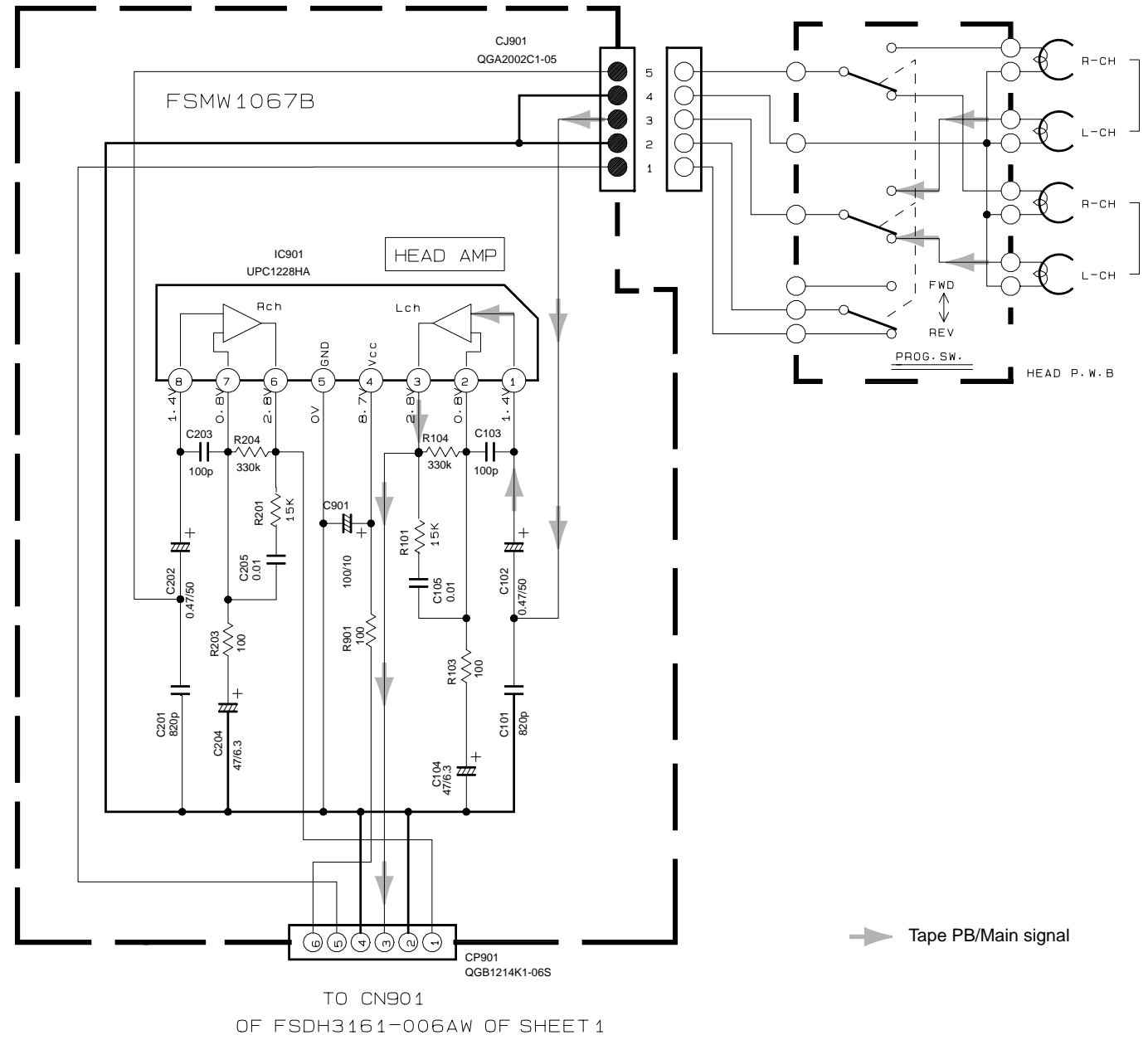
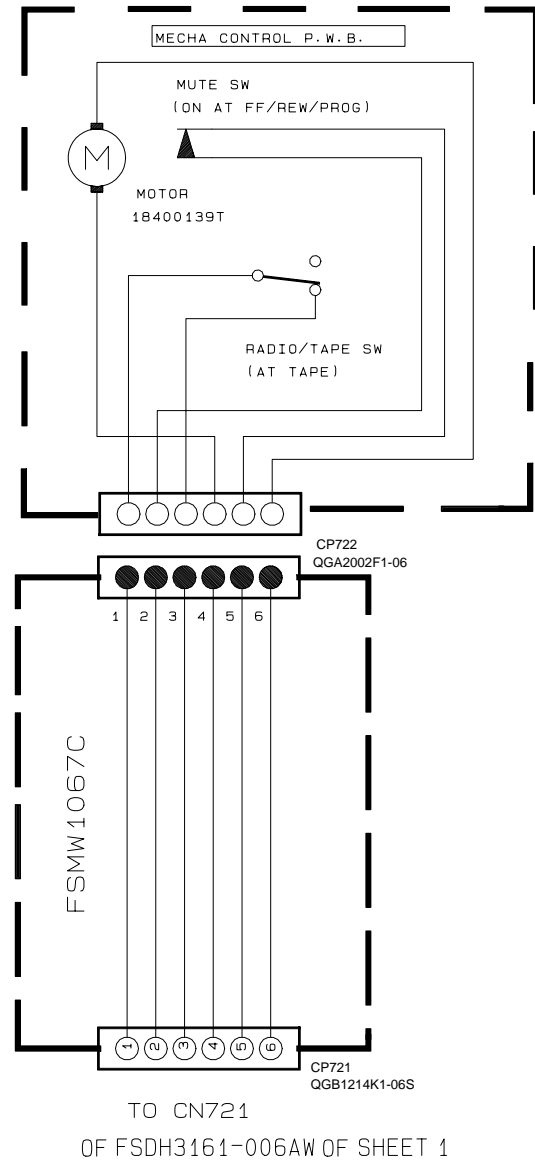
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- FM MODE. (AM MODE )
- UNLESS OTHERWISE SPECIFIED:  
ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.  
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITANCE VALUES ARE IN #F(P=PF).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).  
--- MYLAR CAPACITOR

REF. NO.	MODEL	KS-FX200J	KS-FX201U	KS-F315EE
<b>MICRON</b>				
D714	NOT USED	USED	NOT USED	
D715	NOT USED	NOT USED	NOT USED	
<b>TUNER PACK</b>				
R51	R61	2.7K	1.2K	1.2K
R52	R62	3.3K	4.7K	4.7K
C6	C7	0.033	0.022	0.022
<b>CD</b>				
IC 751	USED	USED	NOT USED	
CP 751	USED	USED	NOT USED	
C133	C233	USED	USED	NOT USED
R752	R760	USED	USED	NOT USED
R755	R756	USED	USED	NOT USED
R63	R63	USED	USED	NOT USED
R64	R64	USED	USED	NOT USED
<b>FCC COUNTERMEASURE</b>				
C10	8.2P	NOT USED	NOT USED	
C12	100P	NOT USED	NOT USED	
C13	100P	NOT USED	NOT USED	
C14	100P	NOT USED	NOT USED	
R972	BUS WIRE	470	470	
R978	BUS WIRE	2.2K	2.2K	
D719	USED	USED	BUS WIRE	
B69	47	BUS WIRE	BUS WIRE	

- FM Radio signal
- AM Radio signal
- CD signal
- Tape PB/Main signal
- Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Note:3161ma  
KS-FX200J/KS-FX315EE/CH-PKF200J/KS-FX201U series & CH-PKF201U series  
FSDH3161-006AW 1/3

Head amplifier circuit section



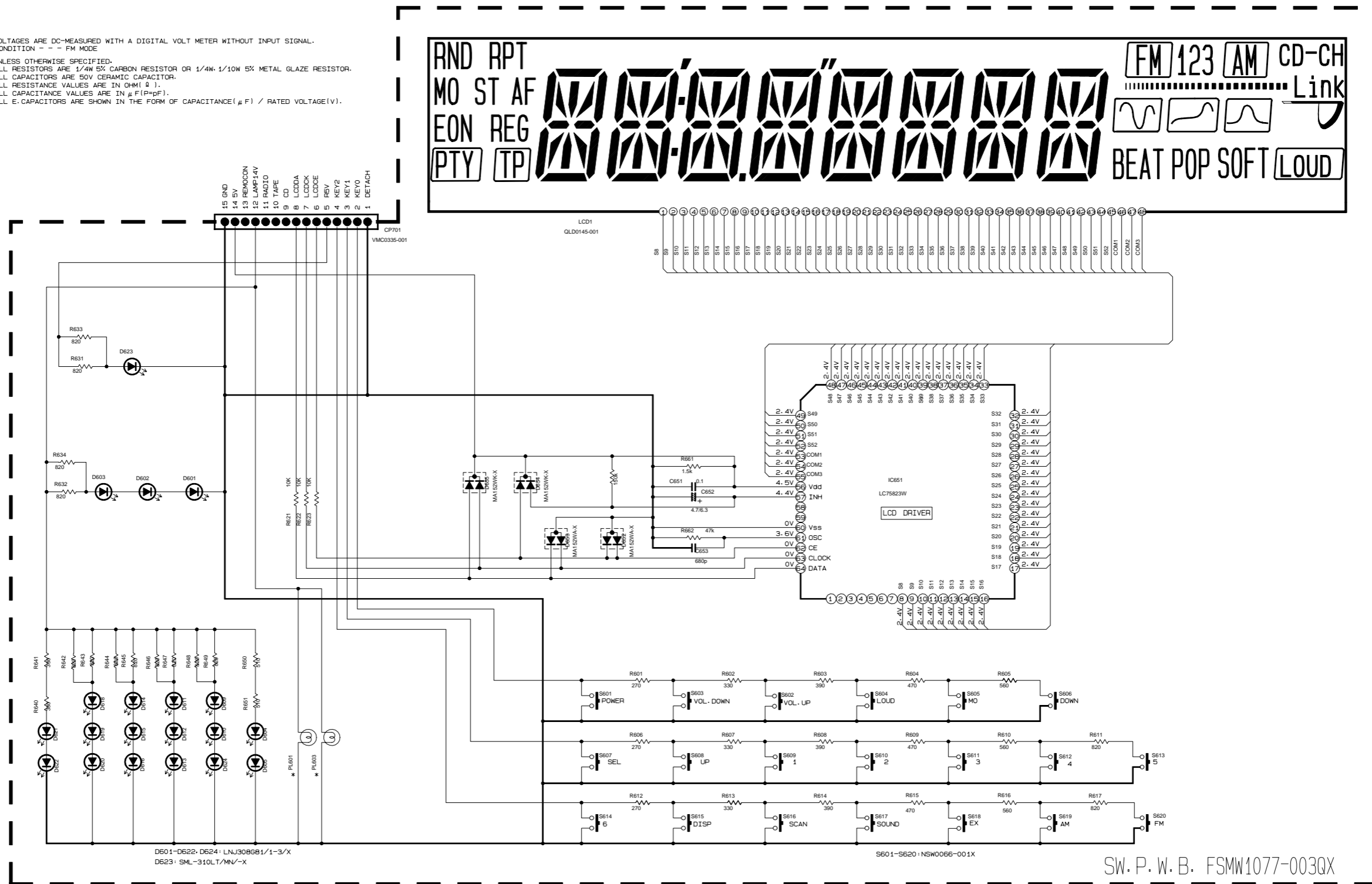
➔ Tape PB/Main signal



■ LCD driver & operation switch circuit

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION - - - FM MODE
2. UNLESS OTHERWISE SPECIFIED:  
 ALL RESISTORS ARE 1/4W 5% CARBON RESISTOR OR 1/4W, 1/10W 5% METAL GLAZE RESISTOR.  
 ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.  
 ALL RESISTANCE VALUES ARE IN OHM(Ω).  
 ALL CAPACITANCE VALUES ARE IN μF(P=pF).  
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).



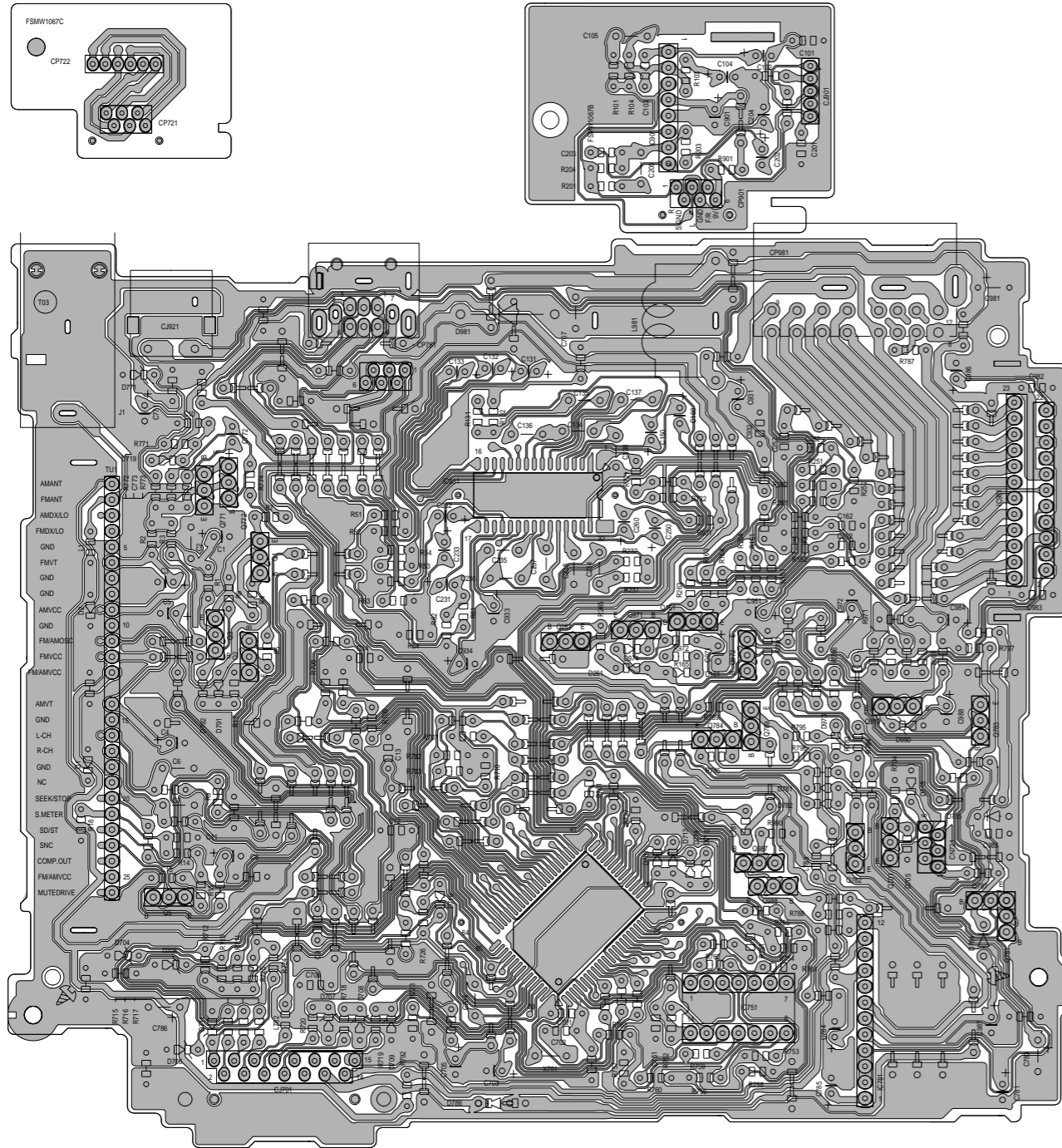
SW. P. W. B. FSMW1077-003QX

Version	KS-FX200J/F315EE	KS-FX201U SERIES	MODEL NAME	SWITCHBOARD
Ref No.	QLL0070-001	QLL0092-001	KS-FX200J/F315EE	KS-SWPCB-6
			KS-FX201U SERIES	KS-SWPCB-7

Note:3211sw  
 KS-FX200J/KS-F315EE/KS-FX201U series/ CHPKFX200J & CH-PKFX201U series  
 FSDH3161-006SW 3/3

# Printed circuit board

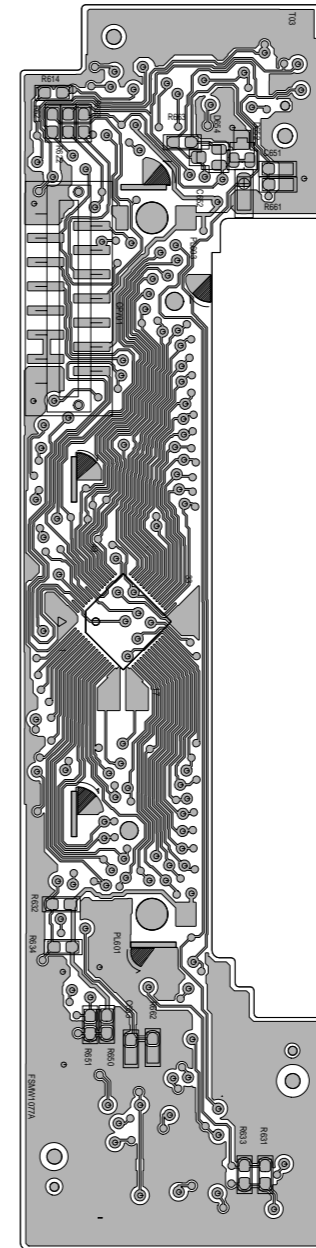
## ■ Main board



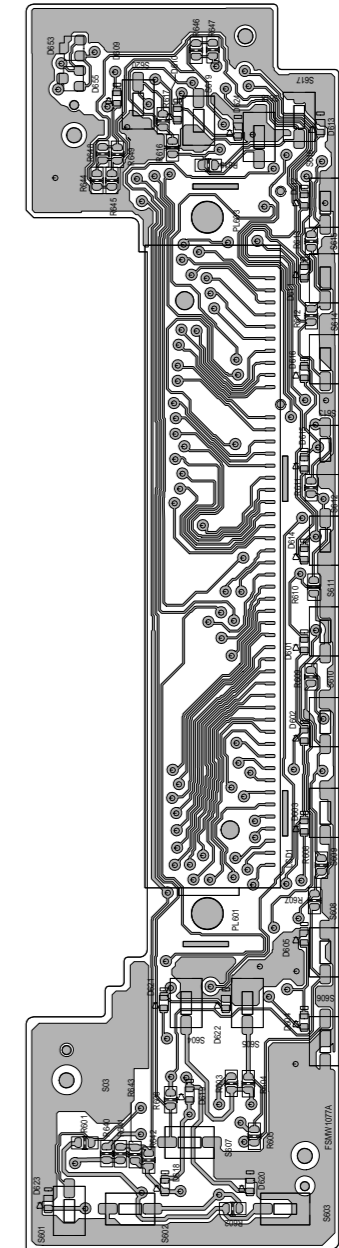
Note:/tr/p/jes/1067/1067mo  
KS-F315/ FSMW1067-003

## ■ Front board

(Reverse side)



(Forward side)



Note:/tr/p/jes/1077/1077mo  
KS-F315

5  
4  
3  
2  
1

A B C 2-6 D E F G H