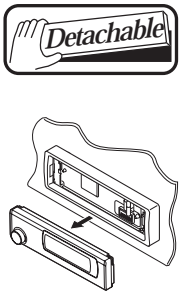
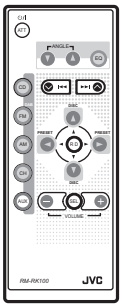
JVC

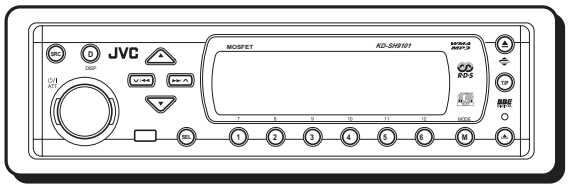
SERVICE MANUAL

CD RECEIVER

KD-SH9101







Area Suffix

E ------ ContinentalEurope

EX --------- Central Europe

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No.49841
2003/5

SPECIFICATION

AUDIO AMPLIFIER SECTION	Maximum Power Output	Front	50 W per channel
		Rear	50 W per channel
	Continuous Power Output (RMS)	Front	19 W per channel into 4Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
		Rear	19 W per channel into 4Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Load Impedance	4Ω (4Ω to 8Ω allowance)	
	Equalizer Control Range	Frequencies: 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12 kHz	
	Level	±10 dB	
	Frequency Response	40 Hz to 20 000 Hz	
	Signal-to-Noise Ratio	70 dB	
	Line-In Level/Impedance	LINE IN	1.5 V/20 kΩ load
	Line-Out Level/Impedance	4.0 V/20 kΩ load (full scale)	
	Output Impedance	1 kΩ	
TUNER SECTION	Frequency Range	FM	87.5 MHz to 108.0 MHz
		AM	(MW) 522 kHz to 1 620 kHz
			(LW) 144 kHz to 279 kHz
	[FM Tuner]	Usable Sensitivity	11.3 dBf (1.0μV/75Ω)
		50 dB Quieting Sensitivity	16.3 dBf (1.8μV/75Ω)
		Alternate Channel Selectivity (400 kHz)	65 dB
		Frequency Response	40 Hz to 15 000 Hz
		Stereo Separation	30 dB
		Capture Ratio	1.5 dB
	[MW Tuner]	Sensitivity	20 μV
		Selectivity	35 dB
	[LW Tuner]	Sensitivity	50 μV
CD PLAYER SECTION	Type	Compact disc player	
	Signal Detection System	Non-contact optical pickup (semiconductor laser)	
	Number of channels	2 channels (stereo)	
	Frequency Response	5 Hz to 20 000 Hz	
	Dynamic Range	98 dB	
	Signal-to-Noise Ratio	102 dB	
	Wow and Flutter	Less than measurable limit	
	MP3 (MPEG Audio Layer 3) Max. Bit rate	320 Kbps	
	WMA (Windows Media(R) Audio) Max. Bit rate	192 Kbps	
GENERAL	Power Requirement	Operating Voltage:	DC 14.4 V(11 V to 16 V allowance)
	Grounding System	Negative ground	
	Allowable Operating Temperature	0°C to +40°C	
	Dimensions (W x H x D)	Installation Size:	182 mm x 52 mm x 161 mm
	Panel Size	188 mm x 58 mm x 17 mm	
	Mass	1.8 kg (excluding accessories)	

Design and specifications are subject to change without notice.

SECTION 1
Precautions

1.1 Safety Precautions

> ⚠ ***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 preforming repair of this system.**

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

1.2 Preventing static electricity

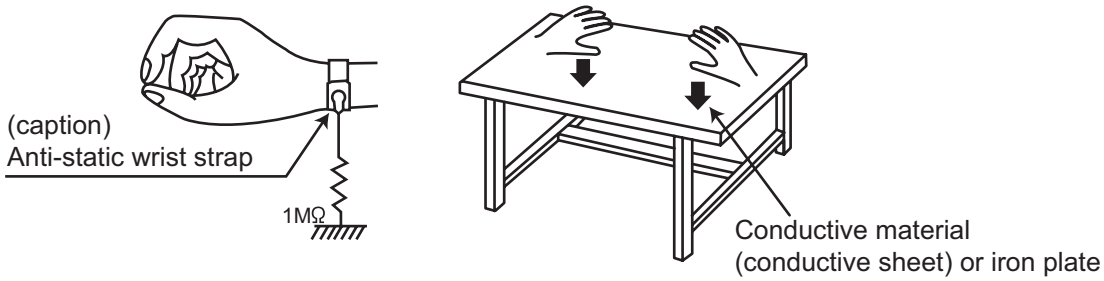
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.2.1 Grounding to prevent damage by static electricity

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

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

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



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

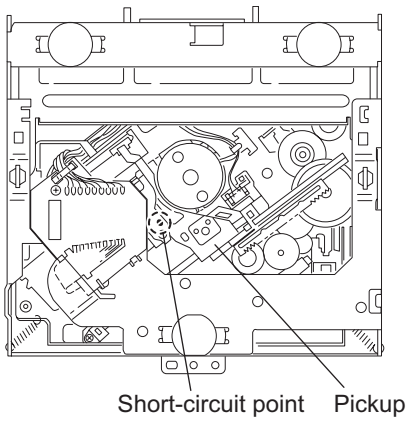
1.3 Handling the traverse unit (optical pickup)

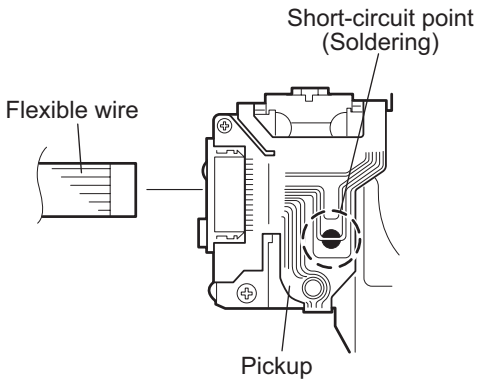
(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static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

1.4 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the CD pickup unit.**

- Apply solder to the short land before the flexible wire is disconnected from the connector on the CD pickup unit. (If the flexible wire is disconnected without applying solder, the CDpickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land after connecting the flexible wire.





SECTION 2
Disassembly method

2.1 Main body section

2.1.1 Removing the front panel assembly (See Fig.1)

(1) Push the detach button in the lower right part of the front panel assembly.
(2) Remove the front panel assembly in the direction of the arrow.

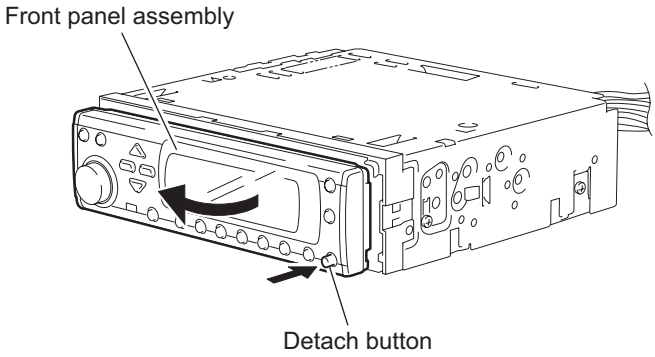


Fig.1

2.1.2 Removing the top chassis (See Figs.2 to 6)

- Turn on power.
  (1) Push the eject button in the upper right part of the front panel assembly to move the front panel assembly as shown in Fig.2 and turn off power.
  (2) Remove the two screws **A** attaching the top chassis from the top side of the main body. (See Fig.3.)
  (3) Remove the three screws **B** attaching the top chassis from the both sides of the main body. (See Figs.4 and 5.)
  (4) Remove the screw **C** and three screws **D** attaching the heat sink from the left side of the main body. (See Fig.5.)
  (5) Remove the two screws **E** and screw **F** attaching the top chassis from the back side of the main body. (See Fig.6.)
  (6) Move the top chassis upward and remove it with the CD mechanism assembly. The connector CN501 on the CD mechanism assembly is disconnected from the connector CN981 on the main board.

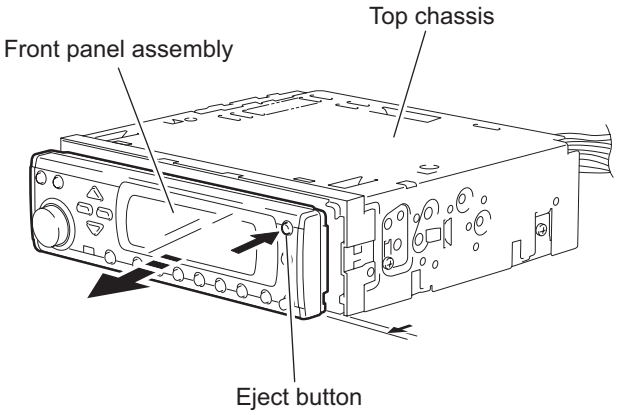


Fig.2

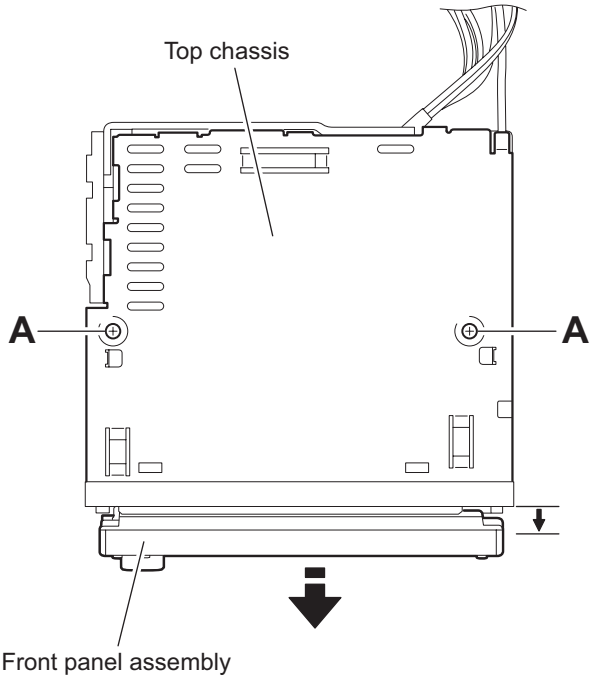


Fig.3

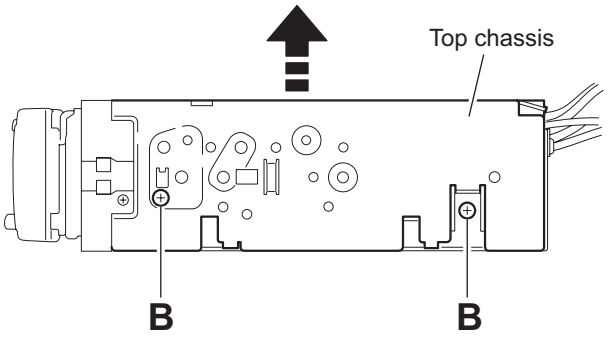


Fig.4

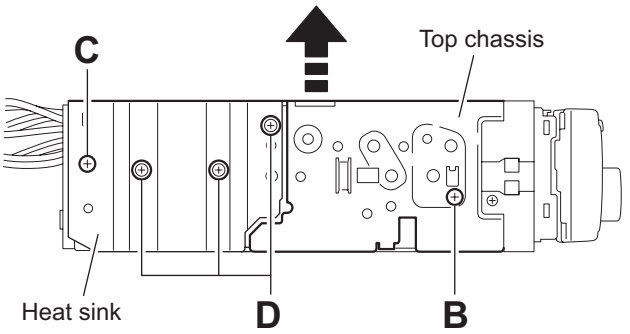


Fig.5

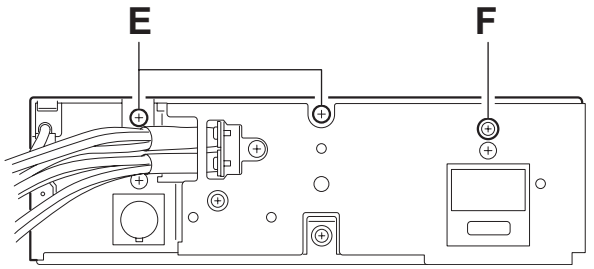


Fig.6

2.1.3 Removing the mecha control board (See Fig.7)

- Prior to performing the following procedures, remove the top chassis.
  (1) Disconnect the card wire from the connector CN601 on the mecha control board.
  (2) Remove the five screws **G** attaching the mecha control board.
  (3) Release the joints **a** and **b**, remove the mecha control board.

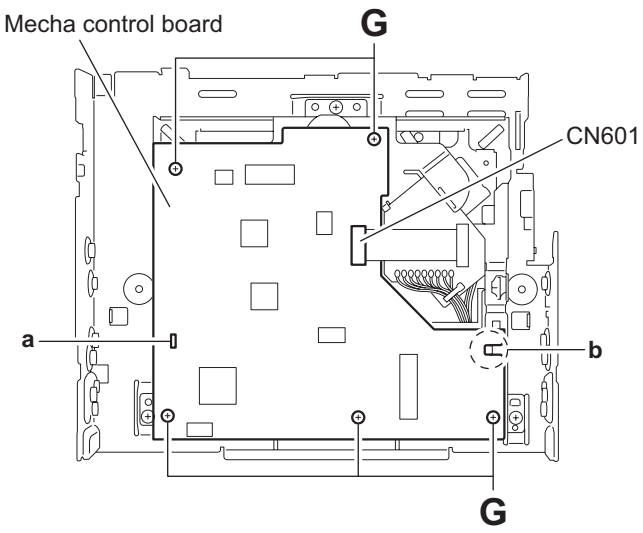


Fig.7

2.1.4 Removing the CD mechanism assembly (See Fig.8)

- Prior to performing the following procedure, remove the top chassis.
  (1) Remove the three screws **H** from the inside of the top chassis and remove the CD mechanism assembly.

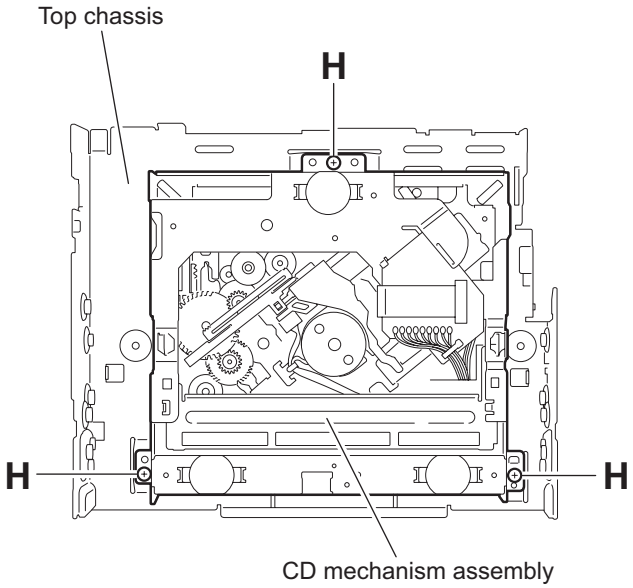


Fig.8

2.1.5 Removing the motor assembly (See Figs.9 to 11)

- Prior to performing the following procedures, remove the top chassis.
  (1) Remove the spring from the motor bracket. (See Fig.9.)
  (2) Disconnect the wire from the connector CN982 on the main board. (See Fig.10.)
  (3) Remove the two screws **J** attaching the motor bracket. (See Fig.10.)
  (4) Remove the washer attaching the clutch assembly and pull out the clutch assembly from the shaft. (See Fig.11.)
  (5) Remove the two screws **K** attaching the motor assembly to the motor bracket. (See Fig.11.)

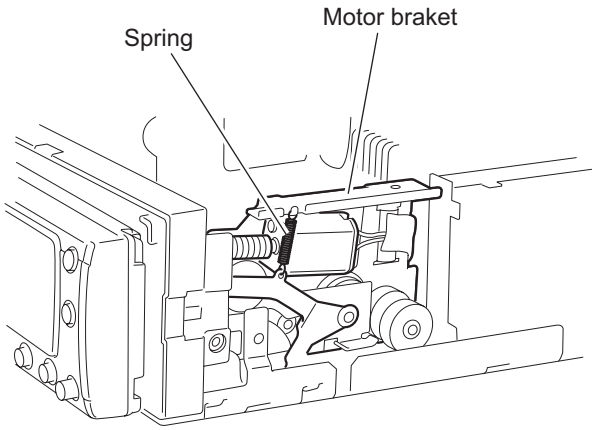


Fig.9

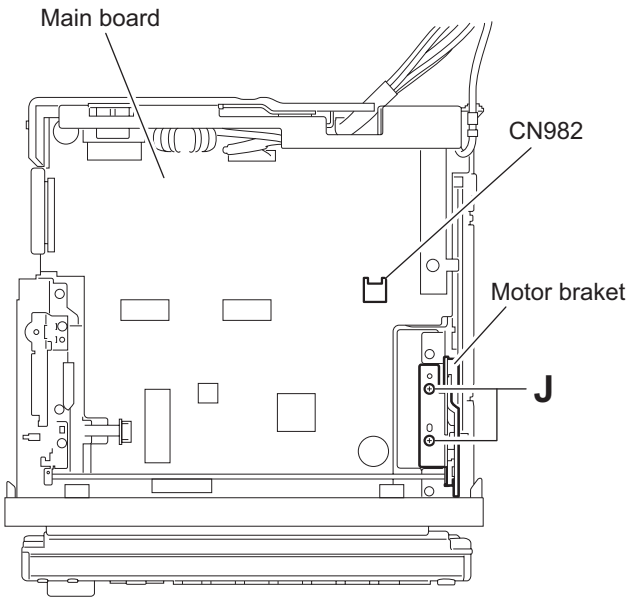


Fig.10

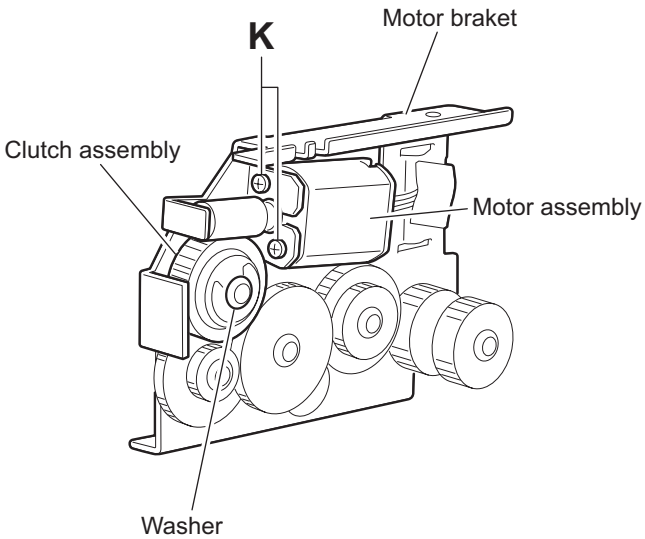


Fig.11

2.1.6 Removing the main board (See Figs.12 to 16)

- Prior to performing the following procedures, remove the top chassis and motor assembly.
  (1) Disconnect the flexible wires from the connectors CN703 and CN991 on the main board respectively. (See Fig.12.)
  (2) Move the front bracket backward until it stops.
  (3) Remove the four screws **L** attaching the arm brackets (L) and (R). Move the arm brackets (L) and (R) from the rod gear. (See Fig.12.)
  (4) Remove the rod gear.
  (5) Remove the screw **M** attaching the rear panel to the bottom cover from the back side of the main body. (See Fig.14.)
  (6) Remove the three screws **N** attaching the main board and move the main board backwards to release the two joints c. (The main board will be removed with the rear panel and rear heat sink) (See Figs.12 and 15.)
  (7) Remove the screw **P** and **Q** attaching the rear heat sink. (See Fig.16.)
  (8) Remove the three screws **R** and screw **S** attaching the rear panel, then remove the main board. (See Fig.16.)

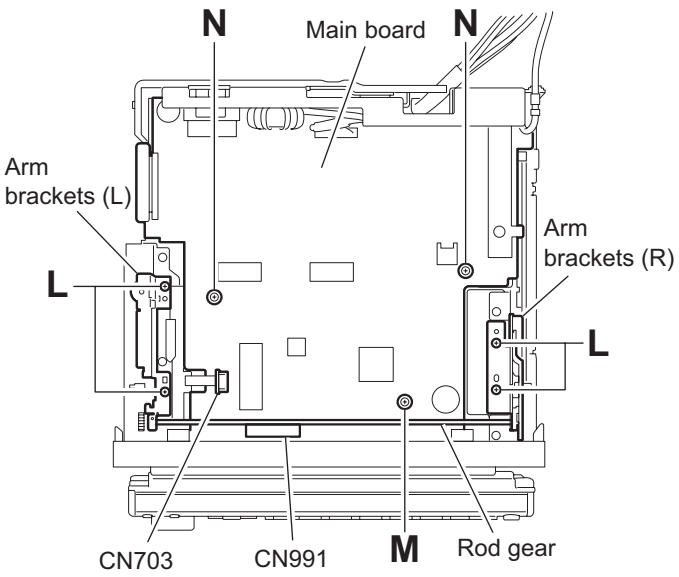


Fig.12

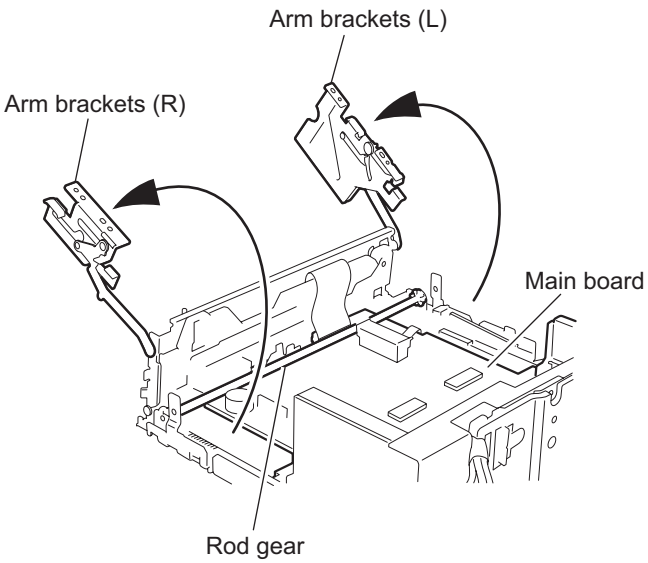


Fig.13

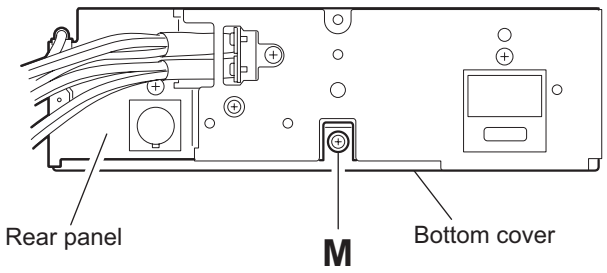


Fig.14

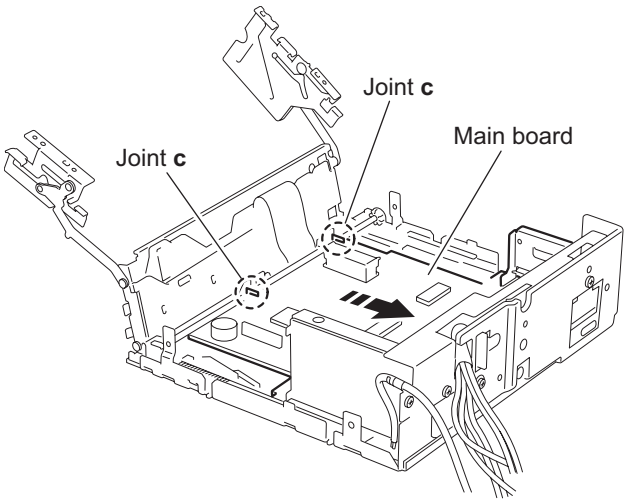


Fig.15

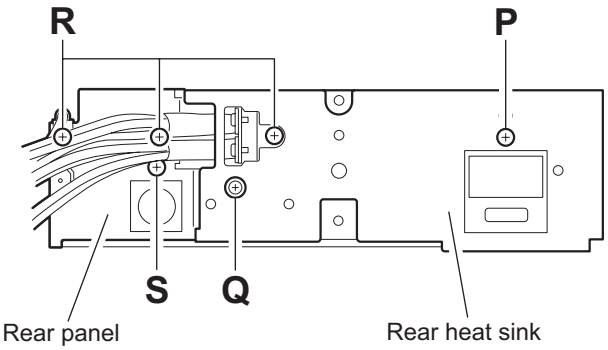


Fig.16

2.1.7 Removing the lifter switch board (See Fig.17)

- Prior to performing the following procedure, remove the top chassis, motor assembly and main board.
  (1) Remove the two screws **T** attaching the lifter switch board to the bottom chassis.

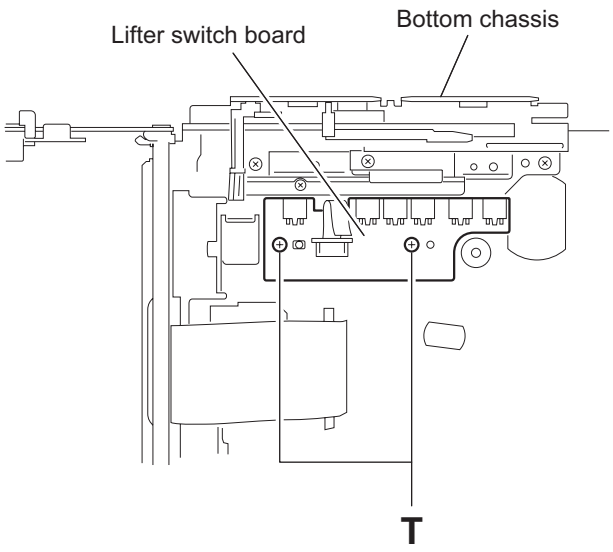


Fig.17

2.1.8 Removing the lifter board (See Figs.18 to 24)

- Prior to performing the following procedures, remove the top chassis and front panel assembly.
- Remove the four screws **U** attaching the front bracket on the both sides of the main body. (See Figs.19 and 20.)
- Push the pin of the joint **d** on the front side of the front bracket to release the detach lever. (See Fig.21.)
- Remove the screw **V** attaching the connector cover in the rear side of the front bracket. (See Fig.22.)
- Release the two joints **f** while pushing them from the front side, and then move the connector cover in the direction of the arrow and release the eight joints e. (See Figs.22 and 23.)
- Remove the two screws **W** attaching the lifter board from the front side of the main body. (See Fig.24.)
  (1) Disconnect the flexible wire from the connector CN991 on the main board. (See Fig.18.)

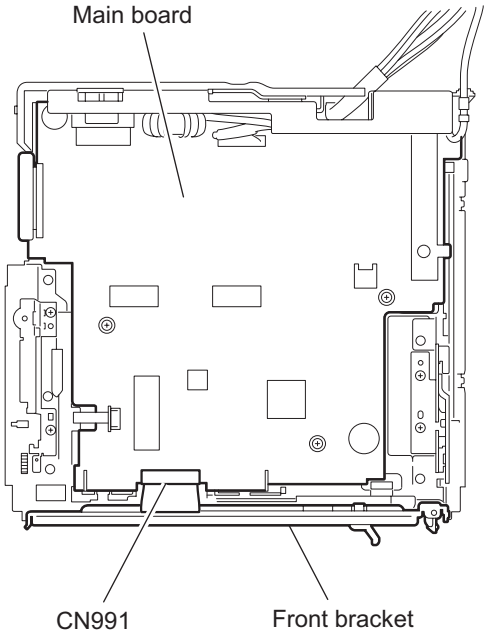


Fig.18

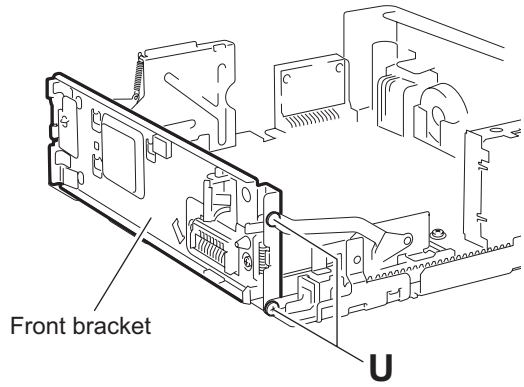


Fig.19

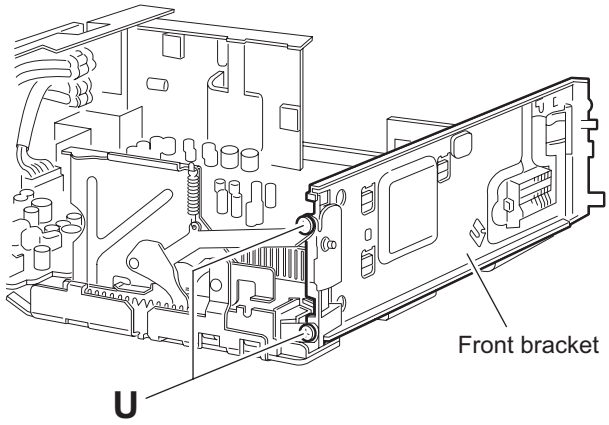


Fig.20

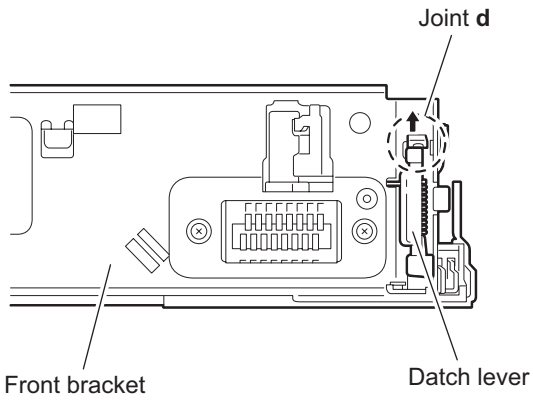


Fig.21

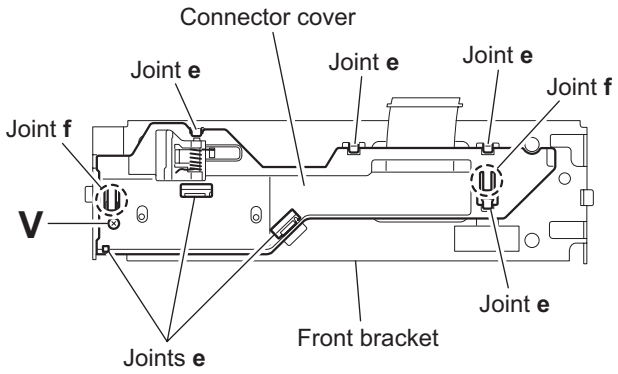


Fig.22

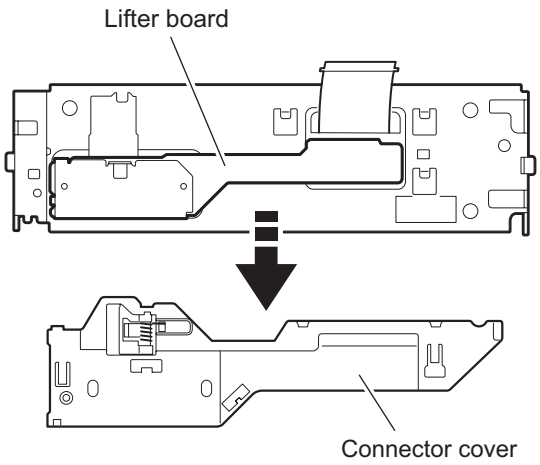


Fig.23

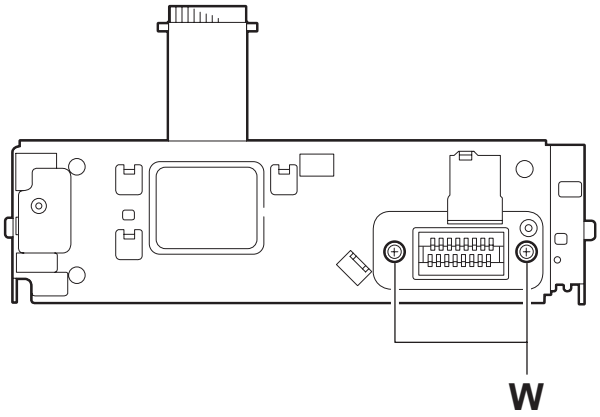


Fig.24

2.1.9 Removing the front board (See Figs.25 to 28)

- Prior to performing the following procedures, remove the front panel assembly.
  (1) Remove the six screws **X** attaching the rear panel to the front panel assembly. (See Fig.25.)
  (2) Pull out the volume knob from the front side of the front panel assembly. (See Fig.26.)
  (3) Release the ten joints **g** of the front panel and the rear panel. (See Fig.27.)
  (4) Take out the front board from the front panel assembly. (See Fig.28.)

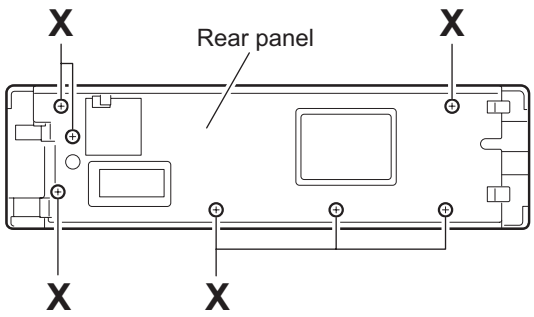


Fig.25

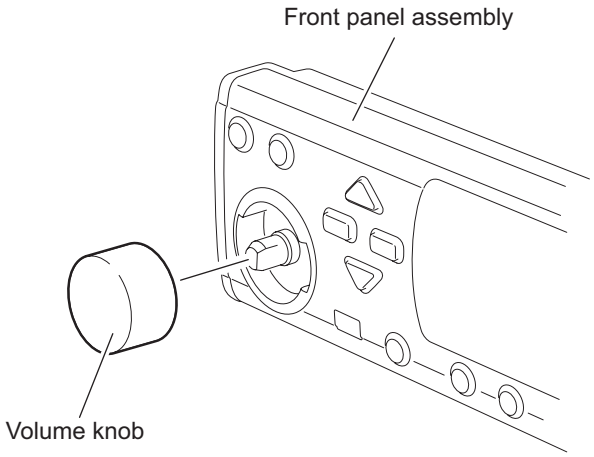


Fig.26

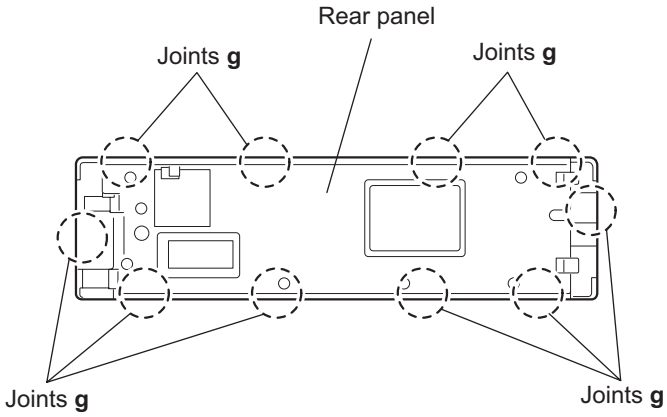


Fig.27

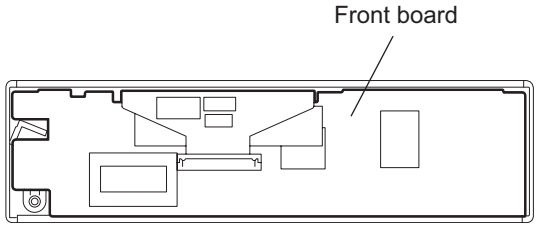


Fig.28

2.2 CD Mechanism section

2.2.1 Removing the top cover (See Figs.1 and 2)

(1) Remove the four screws **A** on the both side of the body.
(2) Lift the front side of the top cover and move the top cover backward to release the two joints **a**.

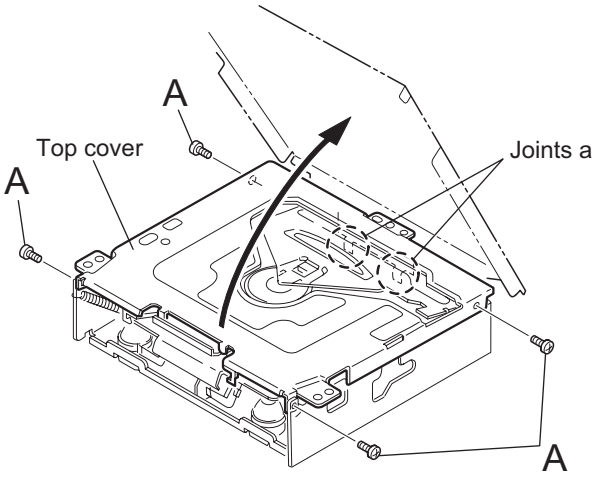


Fig.1

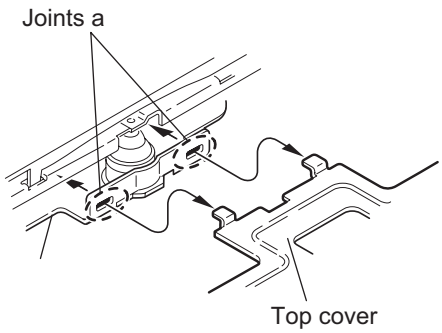


Fig.2

2.2.2 Removing the connector board (See Figs.3 to 5)

CAUTION:

Before disconnecting the flexible wire from the pickup, solder the short-circuit point on the pickup. No observance of this instruction may cause damage of the pickup.

(1) Remove the screw **B** fixing the connector board.
(2) Solder the short-circuit point on the pickup.
(3) Disconnect the flexible wire from the pickup.
(4) Move the connector board in the direction of the arrow to release the two joints **b**.
(5) Unsolder the wires on the connector board if necessary.

CAUTION:

Unsolder the short-circuit point after reassembling.

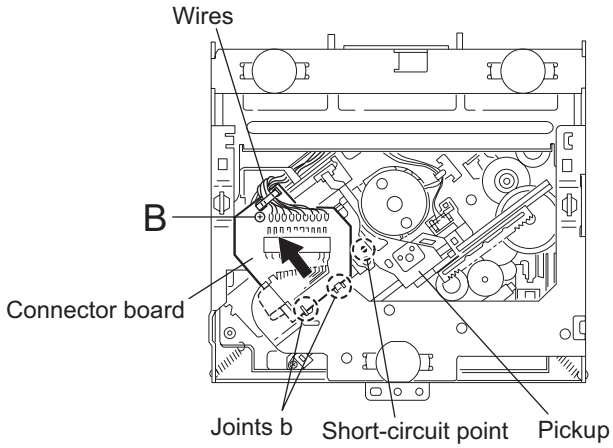


Fig.3

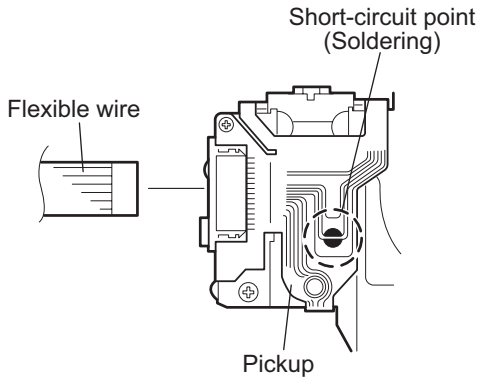


Fig.4

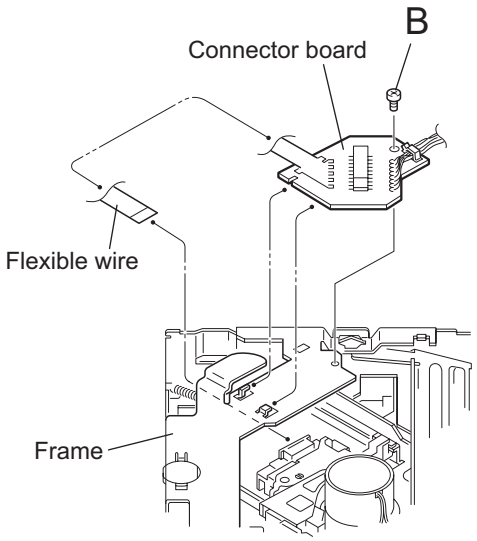


Fig.5

2.2.3 Removing the DET switch (See Figs.6 and 7)

(1) Extend the two tabs **c** of the feed sw. holder and pull out the switch.
(2) Unsolder the DET switch wire if necessary.

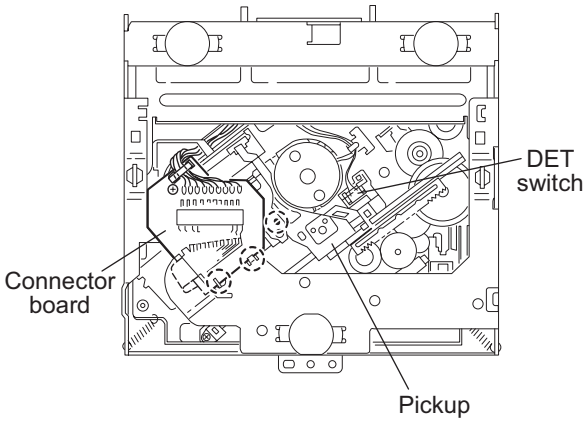


Fig.6

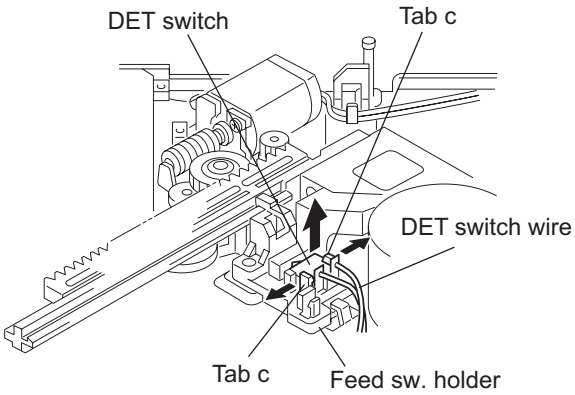


Fig.7

2.2.4 Removing the chassis unit (See Figs.8 and 9)

- Prior to performing the following procedure, remove the top cover and connector board.
  (1) Remove the two suspension springs (L) and (R) attaching the chassis unit to the frame.

CAUTION:

- The shape of the suspension spring (L) and (R) are different. Handle them with care.
- When reassembling, make sure that the three shafts on the underside of the chassis unit are inserted to the dampers certainly.

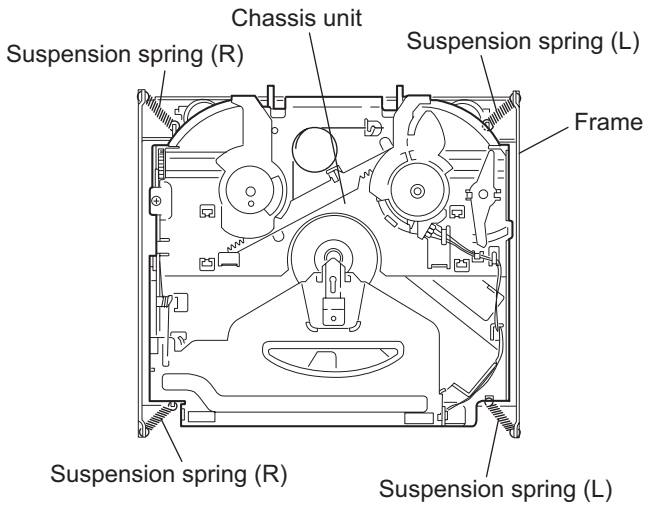


Fig.8

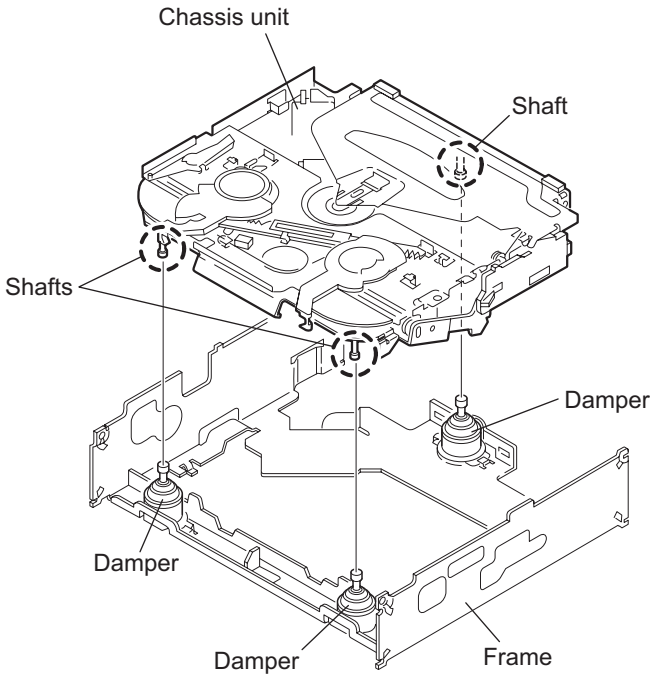


Fig.9

2.2.5 Removing the clamper assembly (See Figs.10 and 11)

- Prior to performing the following procedure, remove the top cover.
  (1) Remove the clamper arm spring.
  (2) Move the clamper assembly in the direction of the arrow to release the two joints **d**.

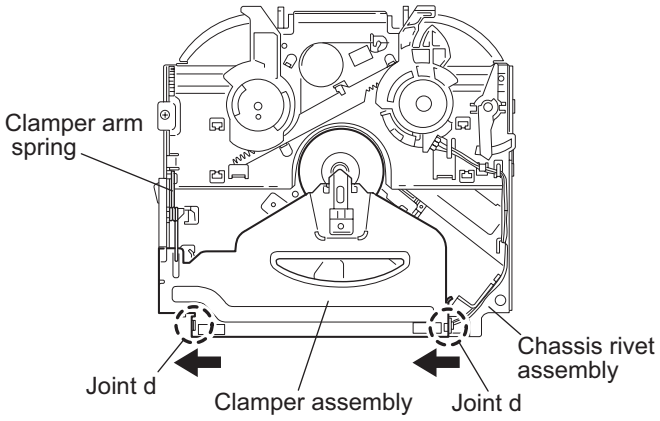


Fig.10

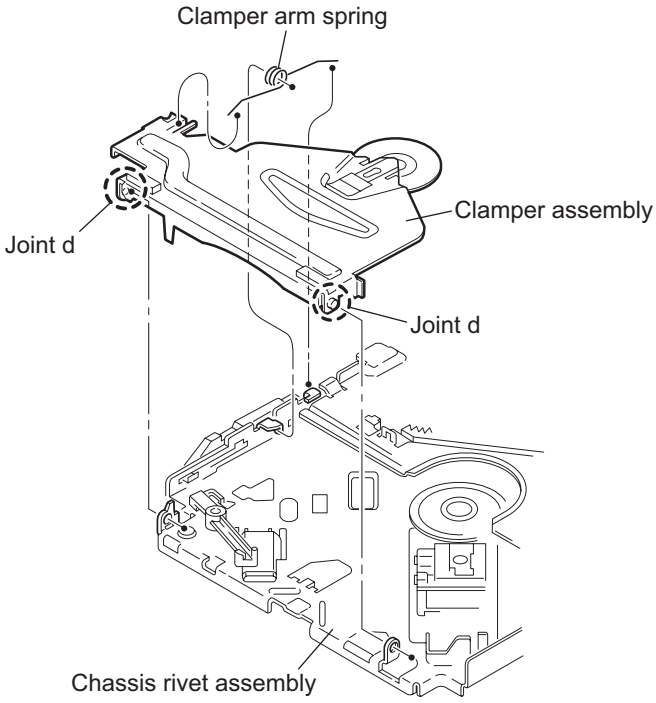


Fig.11

2.2.6 Removing the loading / feed motor assembly (See Figs.12 and 13)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **C** and move the loading / feed motor assembly in the direction of the arrow to remove it from the chassis rivet assembly.
  (2) Disconnect the wire from the loading / feed motor assembly if necessary.

  CAUTION:
  When reassembling, connect the wire from the loading / feed motor assembly to the flame as shown in Fig.12.

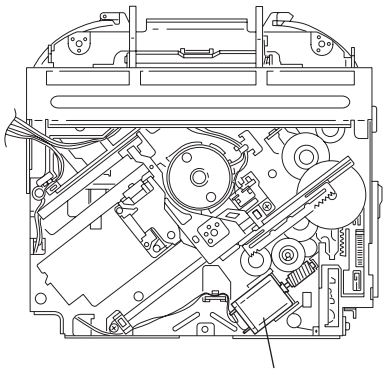


Fig.12

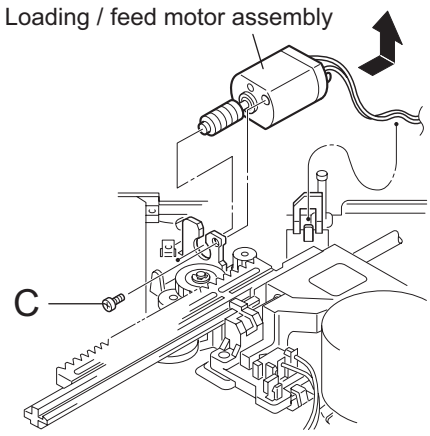


Fig.13

2.2.7 Removing the pickup unit (See Figs.14 to 18)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **D** and pull out the pu. shaft holder from the pu. shaft.
  (2) Remove the screw **E** attaching the feed sw. holder.
  (3) Move the part **e** of the pickup unit upward with the pu. shaft and the feed sw. holder, then release the joint **f** of the feed sw. holder in the direction of the arrow. The joint **g** of the pickup unit and the feed rack is released, and the feed sw. holder comes off.
  (4) Remove the pu. shaft from the pickup unit.
  (5) Remove the screw **F** attaching the feed rack to the pickup unit.

2.2.8 Reattaching the pickup unit (See Figs.14 to 17)

(1) Reattach the feed rack to the pickup unit using the screw **F**.
(2) Reattach the feed sw. holder to the feed rack while setting the joint **g** to the slot of the feed rack and setting the joint **f** of the feed rack to the switch of the feed sw. holder correctly.
(3) As the feed sw. holder is temporarily attached to the pickup unit, set to the gear of the joint **g** and to the bending part of the chassis (joint **h**) at a time.

CAUTION:

Make sure that the part **i** on the underside of the feed rack is certainly inserted to the slot **j** of the change lock lever.

(4) Reattach the feed sw. holder using the screw **E**.
(5) Reattach the pu. shaft to the pickup unit. Reattach the pu. shaft holder to the pu. shaft using the screw **D**.

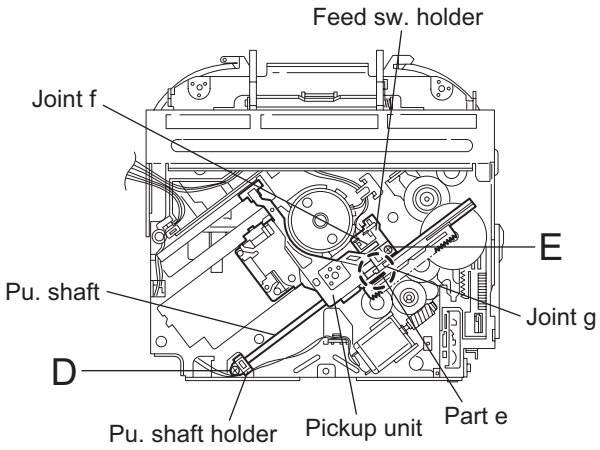


Fig.14

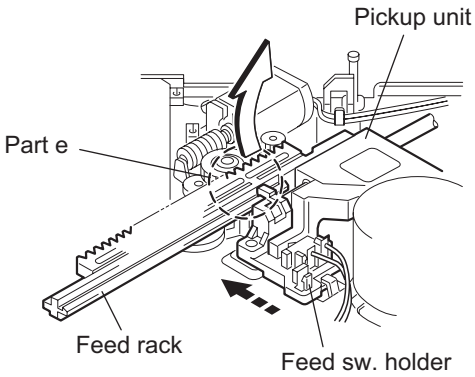


Fig.15

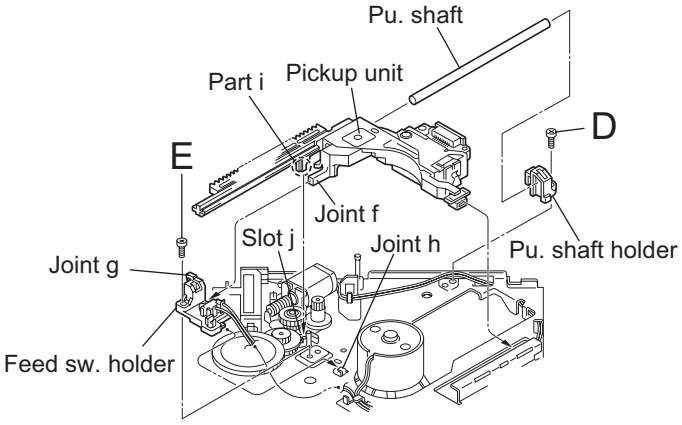


Fig.16

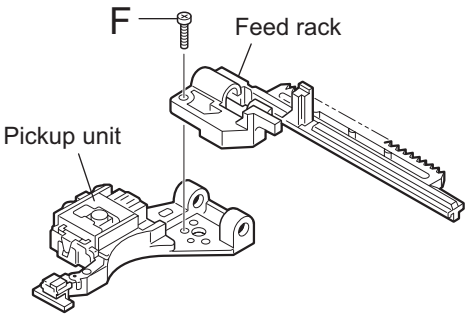


Fig.17

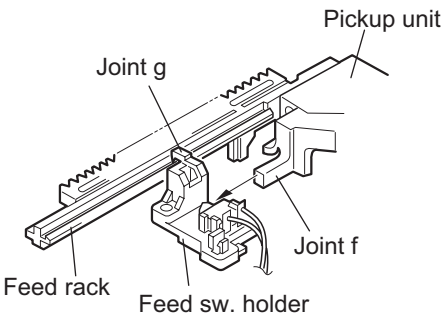


Fig.18

2.2.9 Removing the trigger arm (See Figs.19 and 20)

- Prior to performing the following procedure, remove the top cover, connector board and clamper unit.
  (1) Turn the trigger arm in the direction of the arrow to release the joint **k** and pull out upward.

  CAUTION:

  When reassembling, insert the part **m** and **n** of the trigger arm into the part **p** and **q** at the slot of the chassis rivet assembly respectively and join the joint **k** at a time.

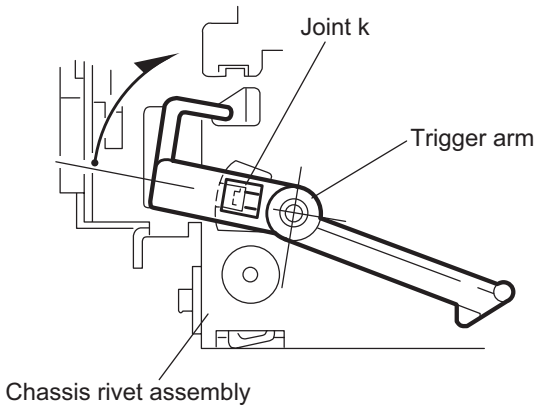


Fig.19

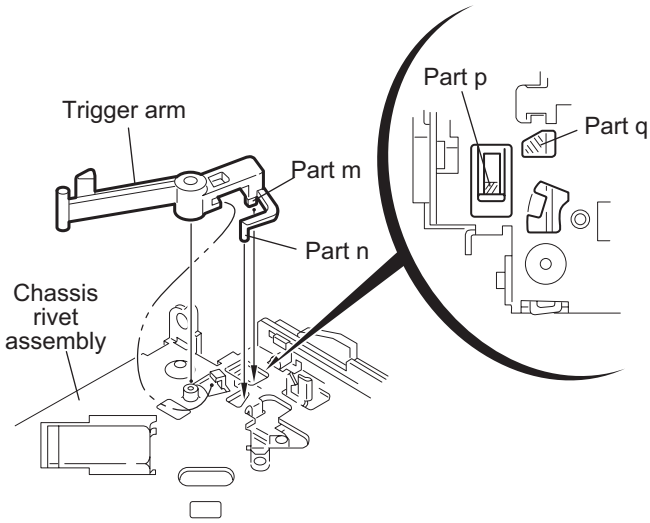


Fig.20

2.2.10 Removing the top plate assembly (See Fig.21)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit, and clamper assembly.
  (1) Remove the screw **H**.
  (2) Move the top plate assembly in the direction of the arrow to release the two joints **r**.
  (3) Unsolder the wire marked **s** if necessary.

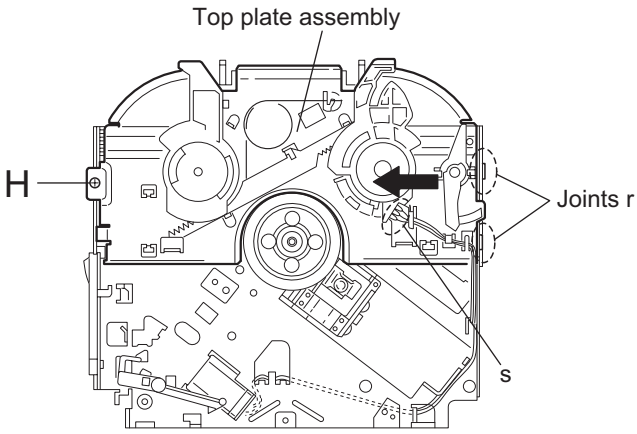


Fig.21

2.2.11 Removing the mode sw. / select lock arm (See Figs.22 and 23)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the mode sw. to release from the link plate (joint **t**) and turn in the direction of the arrow to release the joint **u**.
  (2) Unsolder the wire of the mode sw. marked **s** if necessary.
  (3) Turn the select lock arm in the direction of the arrow to release the two joints **v**.
  (4) The select lock arm spring comes off the select lock arm at the same time.

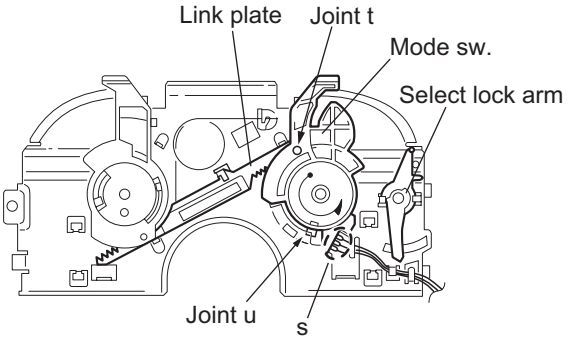


Fig.22

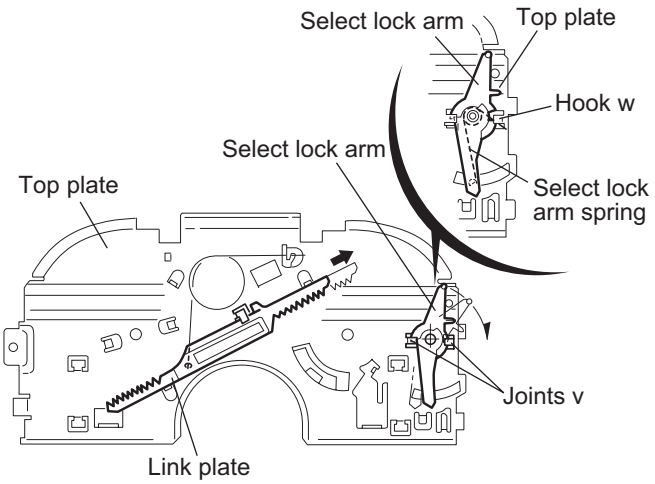


Fig.23

2.2.12 Reassembling the mode sw. / select lock arm (See Figs.24 to 26)

REFERENCE:

Reverse the above removing procedure.

(1) Reattach the select lock arm spring to the top plate and set the shorter end of the select lock arm spring to the hook **w** on the top plate.

(2) Set the other longer end of the select lock arm spring to the boss **x** on the underside of the select lock arm, and join the select lock arm to the slots (joint **v**). Turn the select lock arm as shown in the figure.

(3) Reattach the mode sw. while setting the part **t** to the first peak of the link plate gear, and join the joint **u**.

CAUTION:

When reattaching the mode sw., check if the points **y** and **z** are correctly fitted and if each part operates properly.

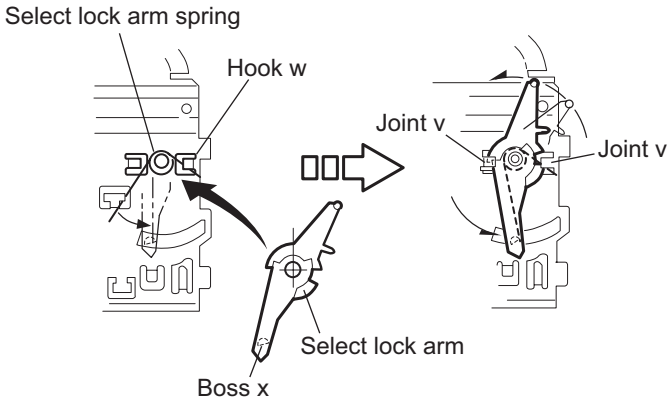


Fig.24

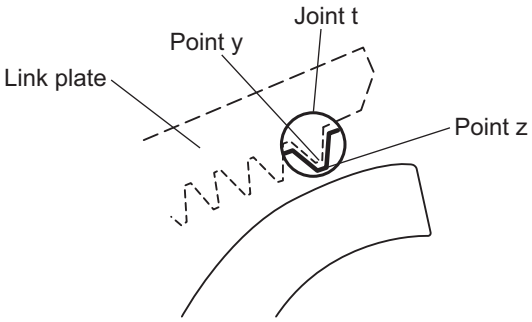


Fig.25

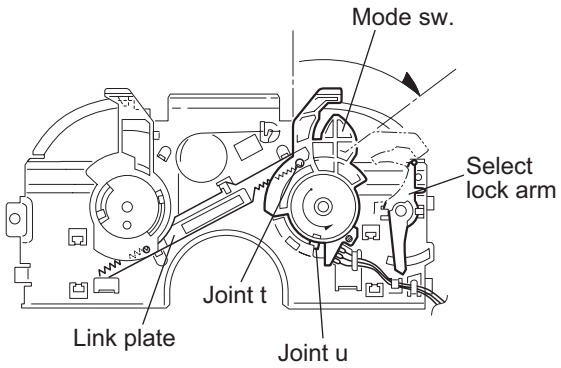


Fig.26

2.2.13 Removing the select arm R / link plate (See Figs.27 and 28)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the select arm **R** to release from the link plate (joint **a'**) and turn as shown in the figure to release the two joints **b'** and joint **c'**.
  (2) Move the link plate in the direction of the arrow to release the joint **d'**. Remove the link plate spring at the same time.

REFERENCE:

Before removing the link plate, remove the mode sw..

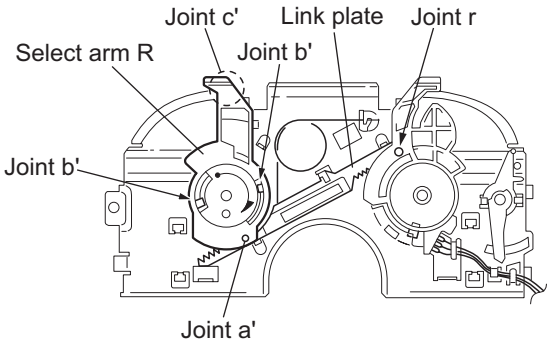


Fig.27

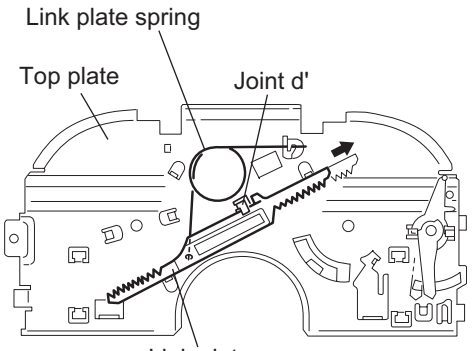


Fig.28

2.2.14 Reattaching the Select arm R / link plate (See Figs.29 and 30)

REFERENCE:

Reverse the above removing procedure.

(1) Reattach the link plate spring.
(2) Reattach the link plate to the link plate spring while joining them at joint **d'**.
(3) Reattach the joint **a'** of the select arm **R** to the first peak of the link plate while joining the two joints **b'** with the slots. Then turn the select arm **R** as shown in the figure. The top plate is joined to the joint **c'**.

CAUTION:

When reattaching the select arm R, check if the points **e'** and **f'** are correctly fitted and if each part operates properly.

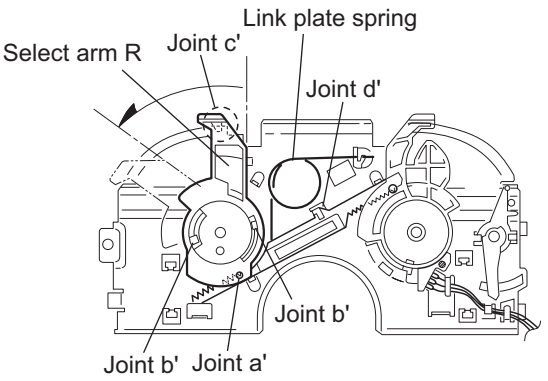


Fig.29

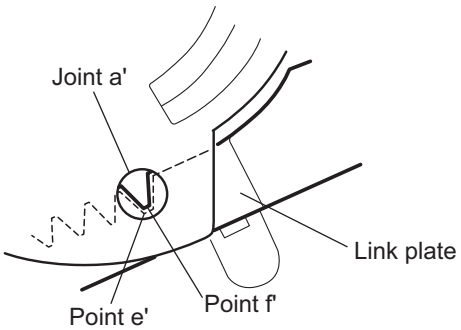


Fig.30

2.2.15 Removing the loading roller assembly (See Figs.31 to 33)

- Prior to performing the following procedure, remove the clamper assembly and top plate assembly.

(1) Push inward the loading roller assembly on the gear side and detach it upward from the slot of the joint **g'** of the lock arm rivet assembly.

(2) Detach the loading roller assembly from the slot of the joint **h'** of the lock arm rivet assembly.

The roller guide comes off the gear section of the loading roller assembly.

Remove the roller guide and the HL washer from the shaft of the loading roller assembly.

(3) Remove the screw **J** attaching the lock arm rivet assembly.

(4) Push the shaft at the joint **i'** of the lock arm rivet assembly inward to release the lock arm rivet assembly from the slot of the **L** side plate.

(5) Extend the lock arm rivet assembly outward and release the joint **j'** from the boss of the chassis rivet assembly. The roller guide springs on both sides come off at the same time.

CAUTION:

When reassembling, reattach the left and right roller guide springs to the lock arm rivet assembly before reattaching the lock arm rivet assembly to the chassis rivet assembly. Make sure to fit the part k' of the roller guide spring inside of the roller guide. (Refer to Fig.34.)

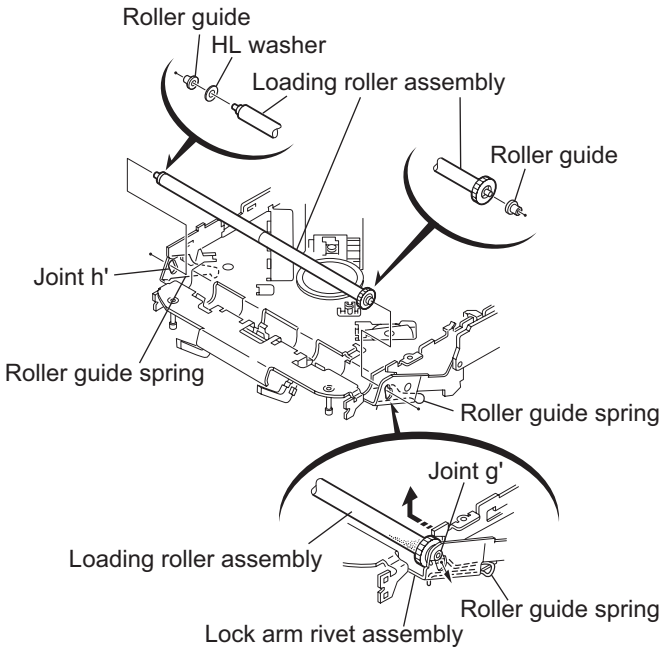


Fig.31

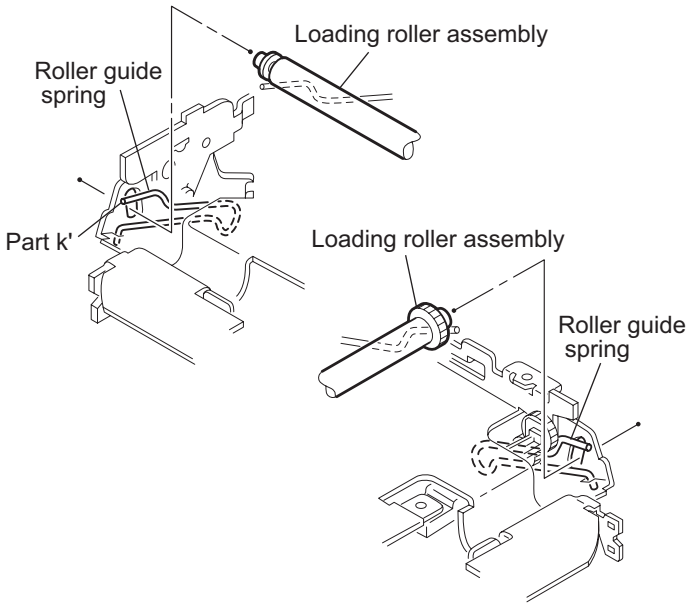


Fig.32

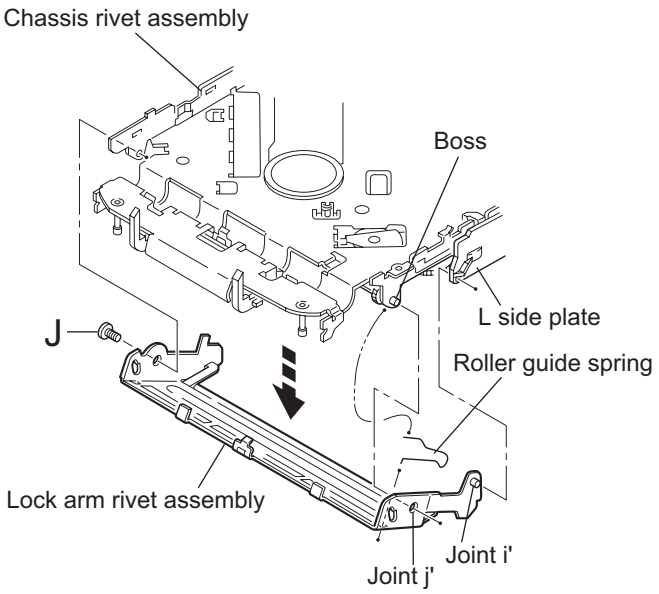


Fig.33

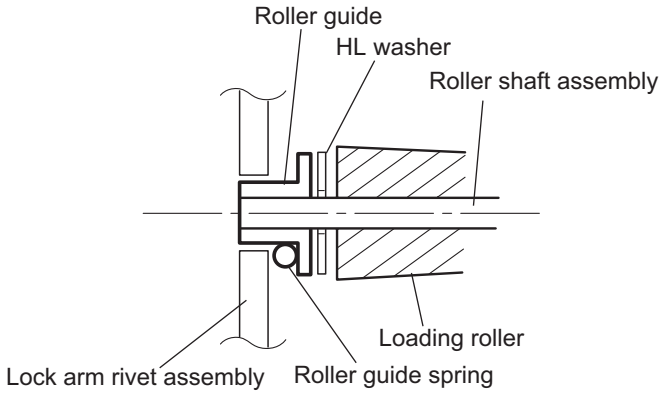


Fig.34

2.2.16 Removing the loading gear 5, 6 and 7 (See Figs.35 and 36)

- Prior to performing the following procedure, remove the top cover, chassis unit, pickup unit and top plate assembly.
  (1) Remove the screw **K** attaching the loading gear bracket. The loading gear 6 and 7 come off the loading gear bracket.
  (2) Pull out the loading gear 5.

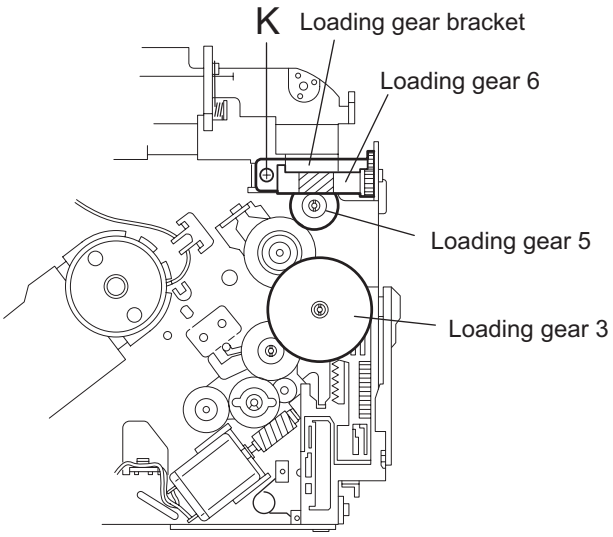


Fig.35

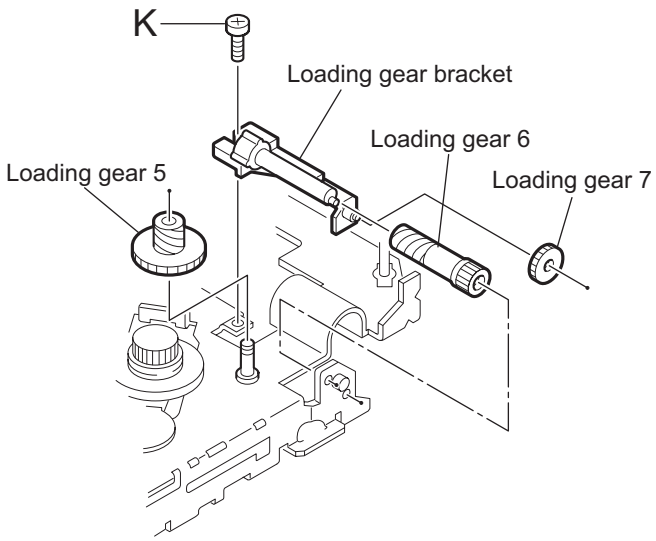


Fig.36

2.2.17 Removing the gears
(See Figs.37 to 40)

- Prior to performing the following procedure, remove the top cover, chassis unit, top plate assembly and pickup unit.
- Pull out the loading gear 3. (See Fig.35.)
  (1) Pull out the feed gear.
  (2) Move the loading plate assembly in the direction of the arrow to release the **L** side plate from the two slots m' of the chassis rivet assembly. (See Fig.37.)
  (3) Detach the loading plate assembly upward from the chassis rivet assembly while releasing the joint **n'**. Remove the slide hook and loading plate spring from the loading plate assembly.
  (4) Pull out the loading gear 2 and remove the change lock lever.
  (5) Remove the **E** ring and washer attaching the change gear 2.
  (6) The change gear 2, change gear spring and adjusting washer come off.
  (7) Remove the loading gear 1.
  (8) Move the change plate rivet assembly in the direction of the arrow to release from the three shafts of the chassis rivet assembly upward. (See Fig.38.)
  (9) Detach the loading gear plate rivet assembly from the shaft of the chassis rivet assembly upward while releasing the joint **p'**. (See Figs.38 and 40.)
  (10) Pull out the loading gear 4.

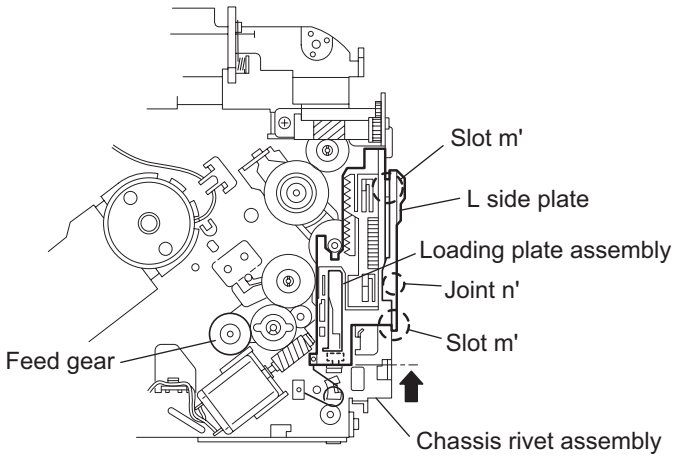


Fig.37

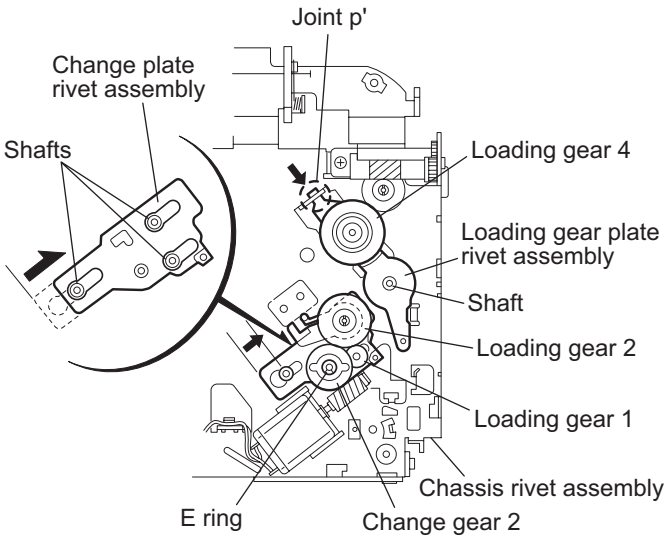


Fig.38

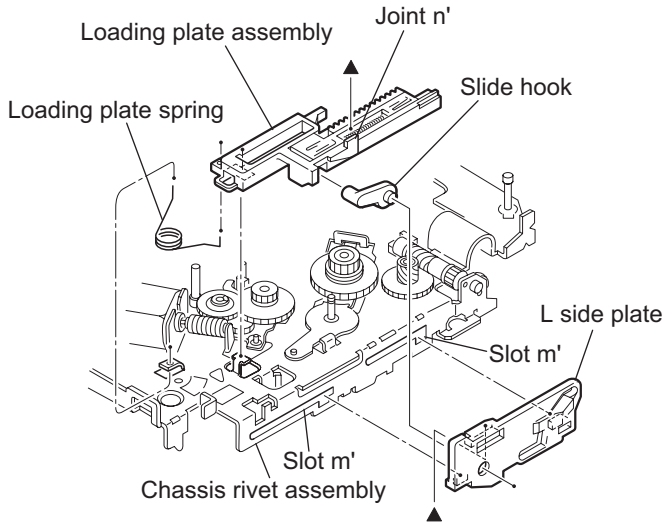


Fig.39

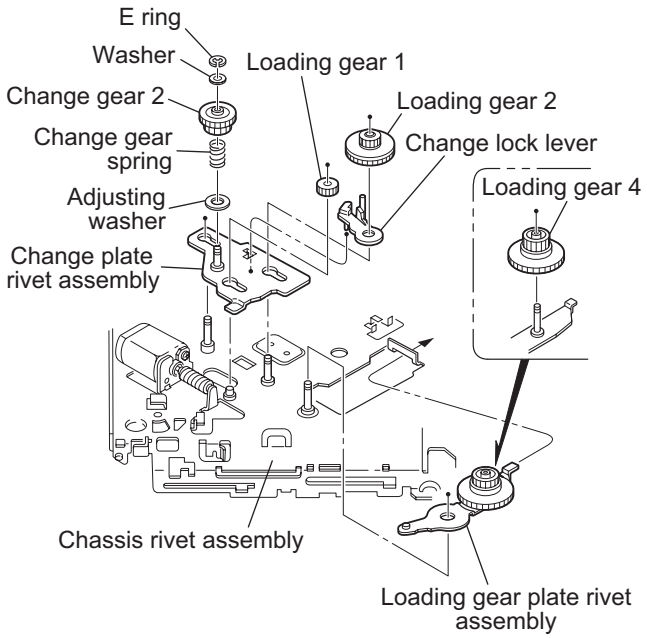


Fig.40

2.2.18 Removing the turn table / spindle motor (See Figs.41 and 42)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit and clamper assembly.
  (1) Remove the two screws **L** attaching the spindle motor assembly through the slot of the turn table on top of the body.
  (2) Unsolder the wire on the connector board if necessary.

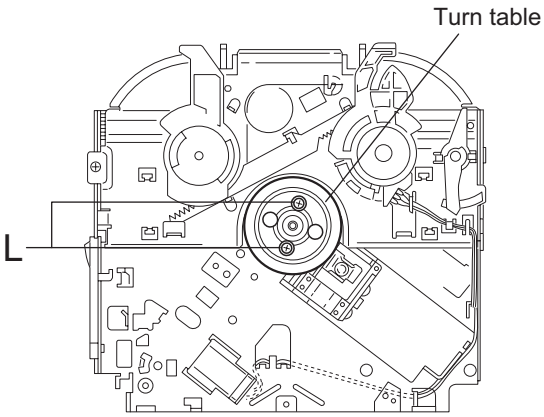


Fig.41

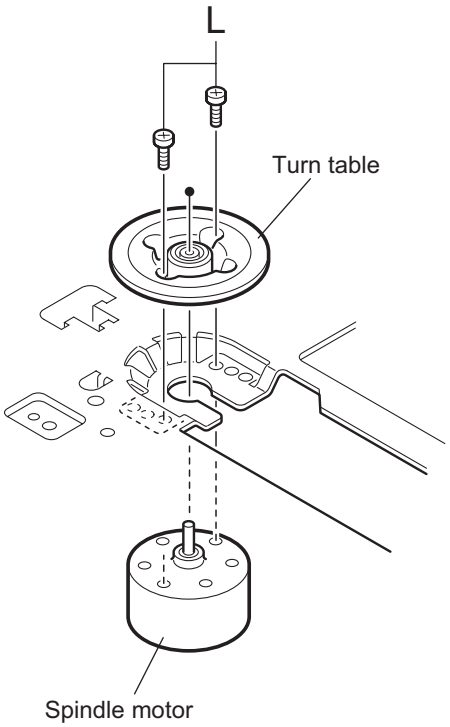


Fig.42

SECTION 3
Adjustment

3.1 Adjustment method

■ **Test instruments required for adjustment**

(1) Digital oscilloscope (100MHz)
(2) AM Standard signal generator
(3) FM Standard signal generator
(4) Stereo modulator
(5) Electric voltmeter
(6) Digital tester
(7) Tracking offset meter
(8) Test Disc JVC :CTS-1000
(9) Extension cable for check
EXTSH002-22P × 1

■ **Standard volume position**

Balance and Bass &Treble volume : Indication"0"
Loudness : OFF

■ **Standard measuring conditions**

Power supply voltage	DC14.4V(11 to 16V)
Load impedance	20KΩ(2 Speakers connection)
Output Level	Line out 2.0V (Vol. MAX)

■ **Frequency Band**

FM1	87.5MHz to 108.0MHz
AM (MW)	522kHz to 1620kHz
AM (LW)	144kHz to 279kHz

■ **Dummy load**

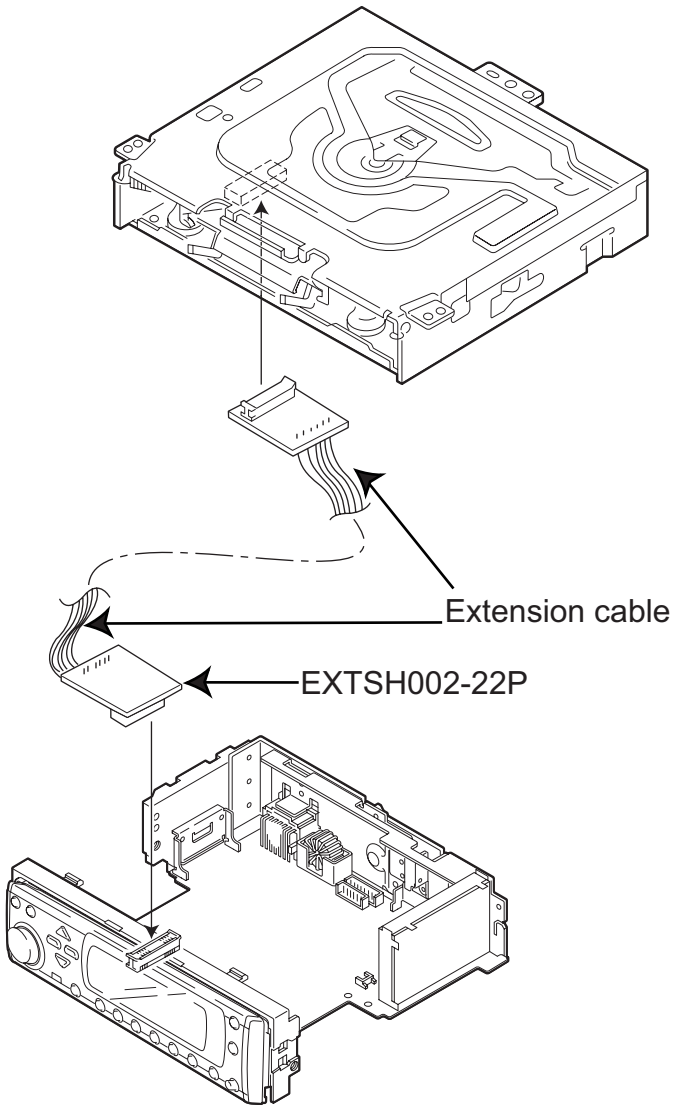
Exclusive dummy load should be used for AM,and FM. For FM dummy load,there is a loss of 6dB between SSG output and antenna input.The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

■ **How to connect the extension cable for adjusting**

Caution:

Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

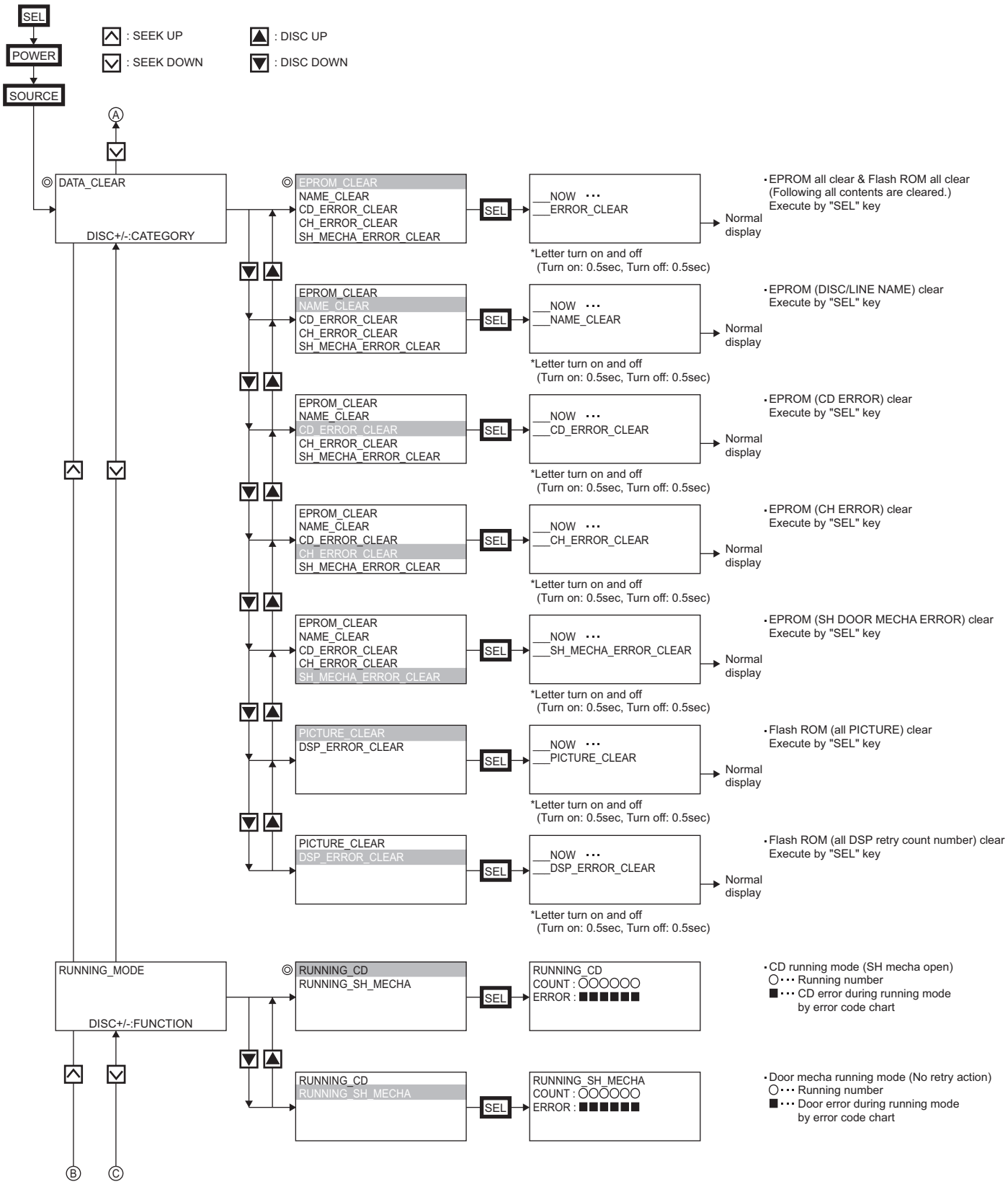
* The cardboard is cut in a suitable size.
uses for the insulation stand of mechanism.

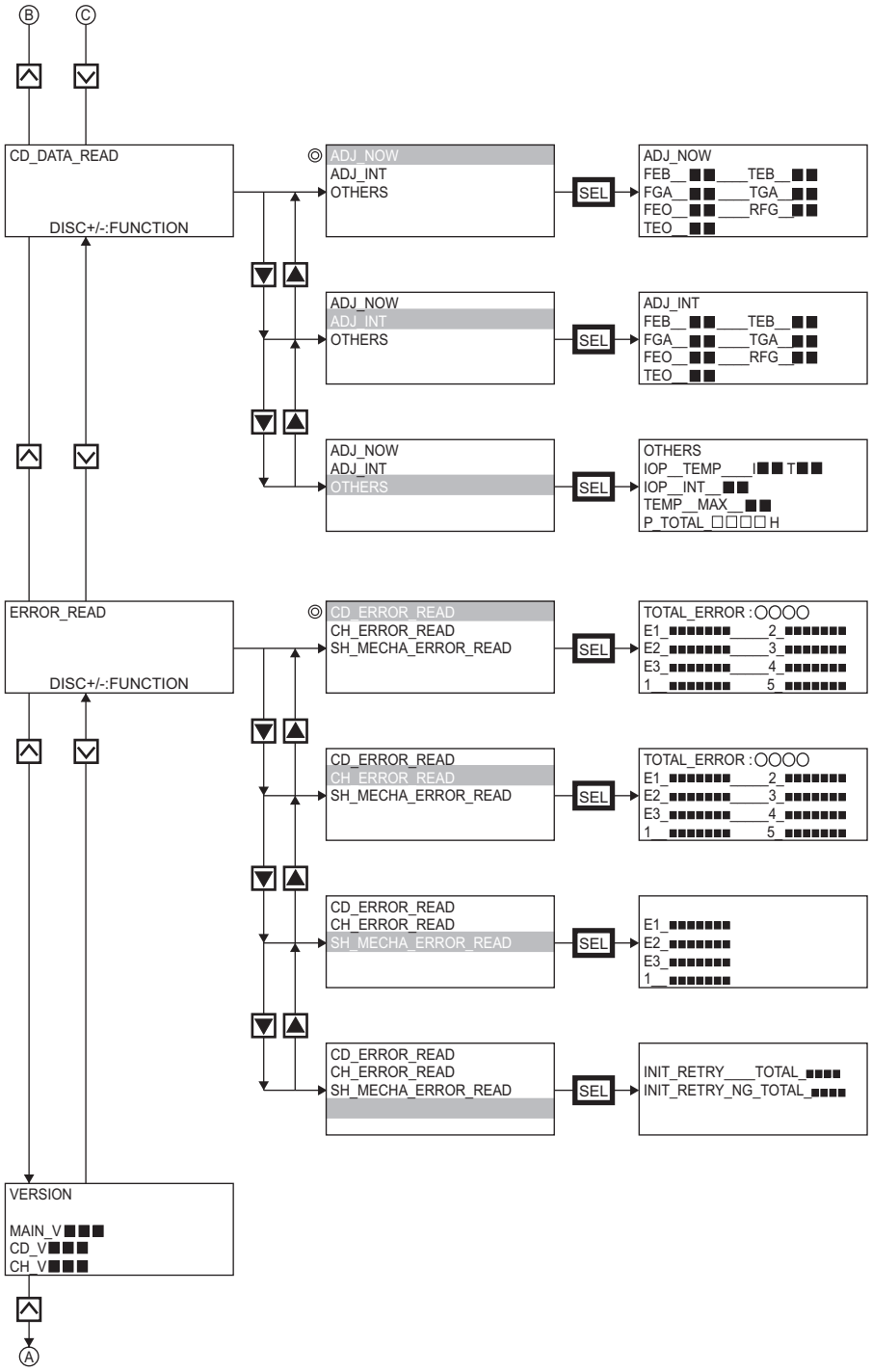


3.2 Service mode

When entering the service mode, "DATA CLEAR" is displayed without fail.

◎ : Initial display





- CD data display
  ■・・・Hex. code display
  □・・・Total running time display
  (Four figures (to 9999), hour only, omit)

- CD error display
  ○・・・Total error number
  ■・・・Display by error code chart

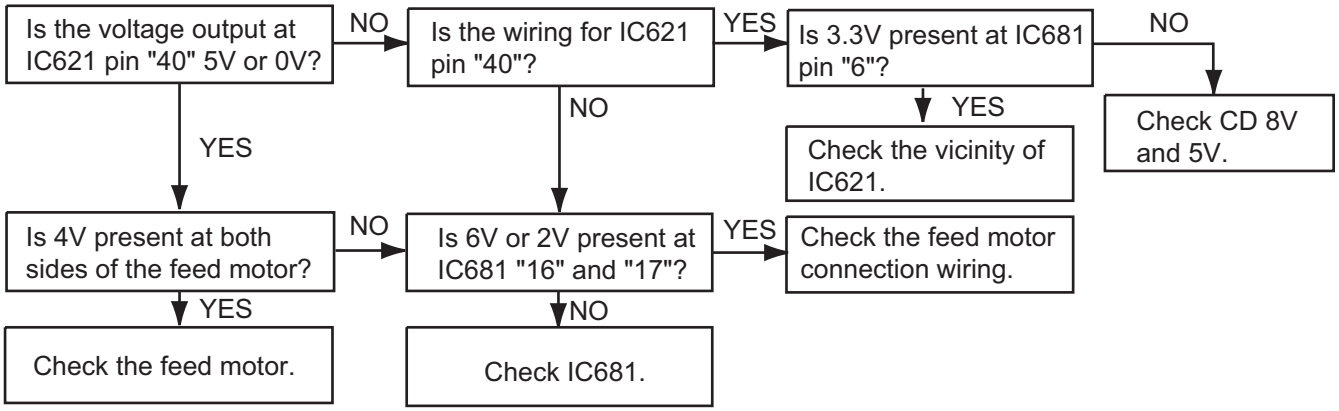
- CH error display
  ○・・・Total error number
  ■・・・Display by error code chart

- SH door mecha error display
  ■・・・Display by error code chart

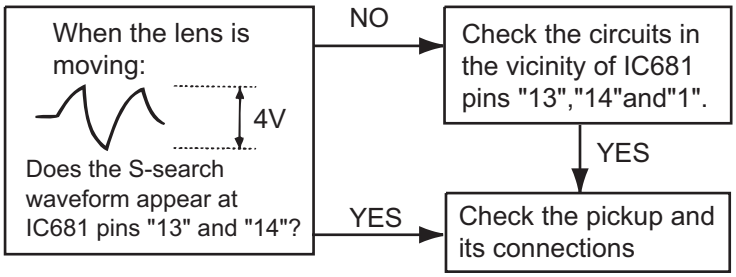
- DSP initial setting data error
  ■・・・Retry total number of initial setting
  Error number: NG after retry two times
  (First transmit→NG→Retry first transmit NG
  →Second transmit NG : 1 count)

3.3 Troubleshooting

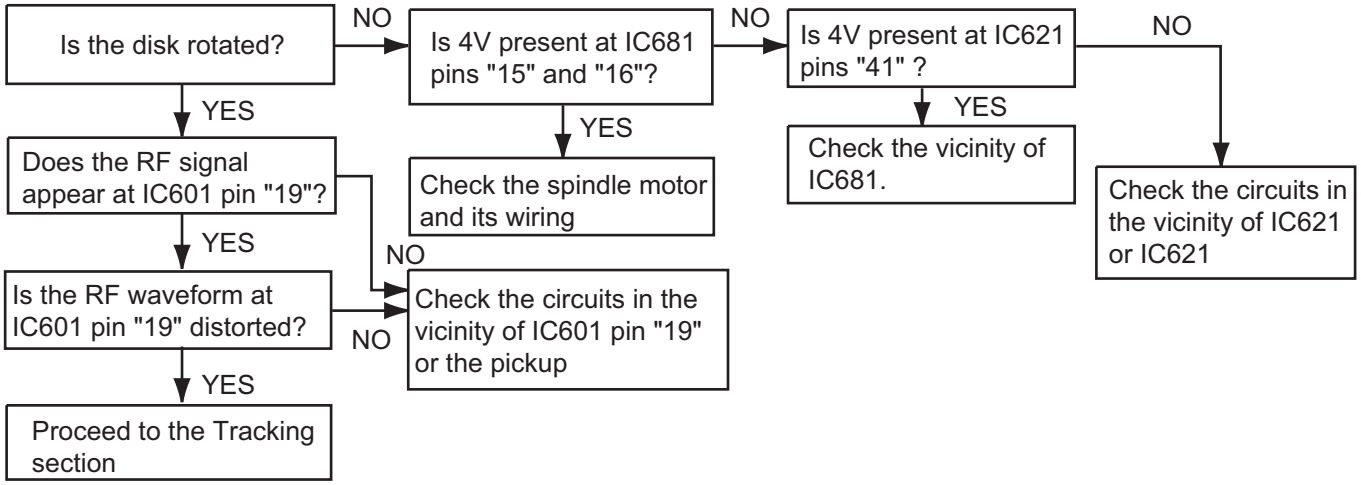
■ Feed section



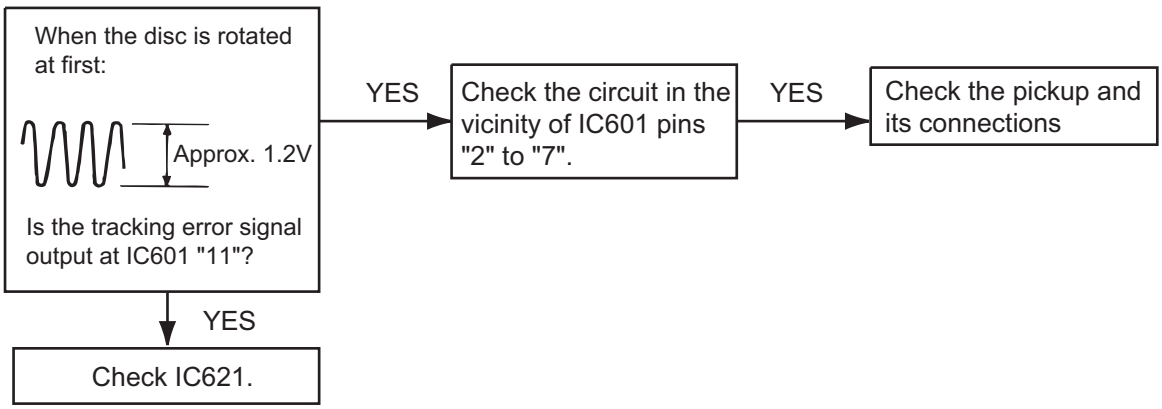
■ Focus section



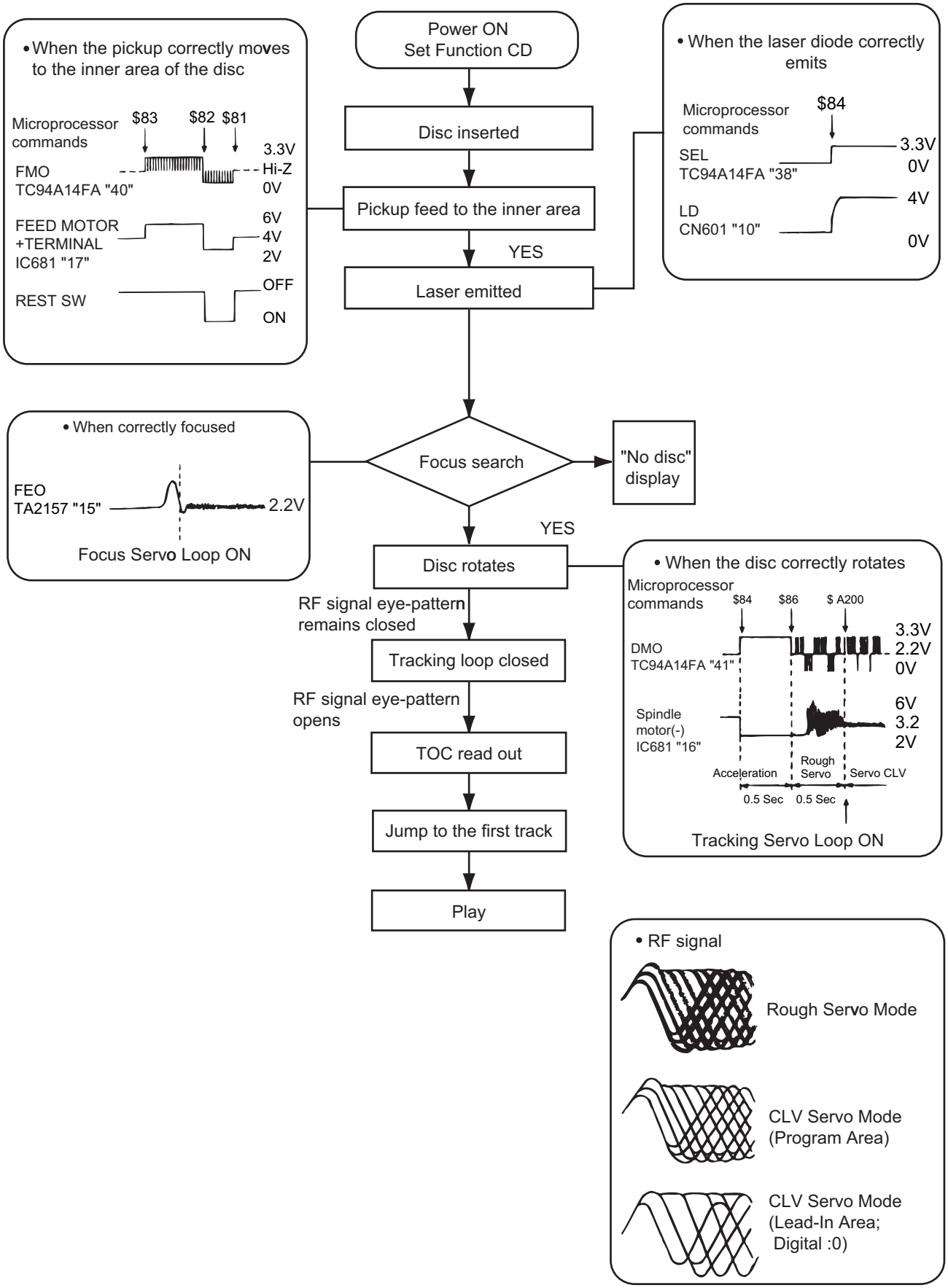
■ Spindle section



■ Tracking section



3.4 Flow of functional operation unit TOC read

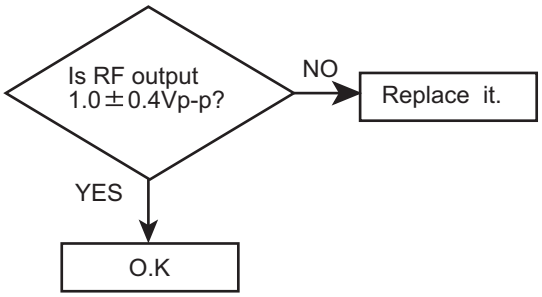


3.5 Maintenance of laser pickup

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

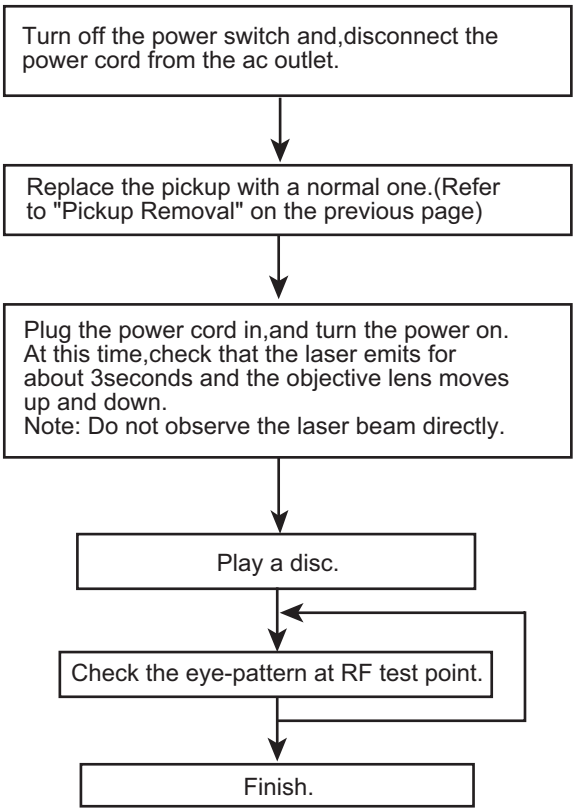
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

- The level of RF output (EFM output: amplitude of eye pattern) will be low.



(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced. If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

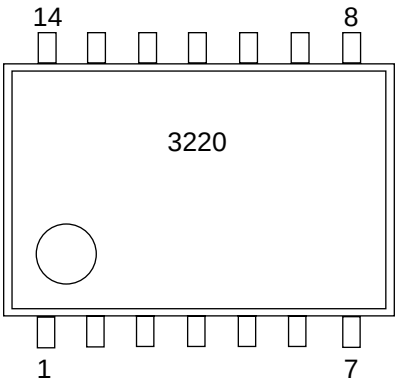
3.6 Replacement of laser pickup



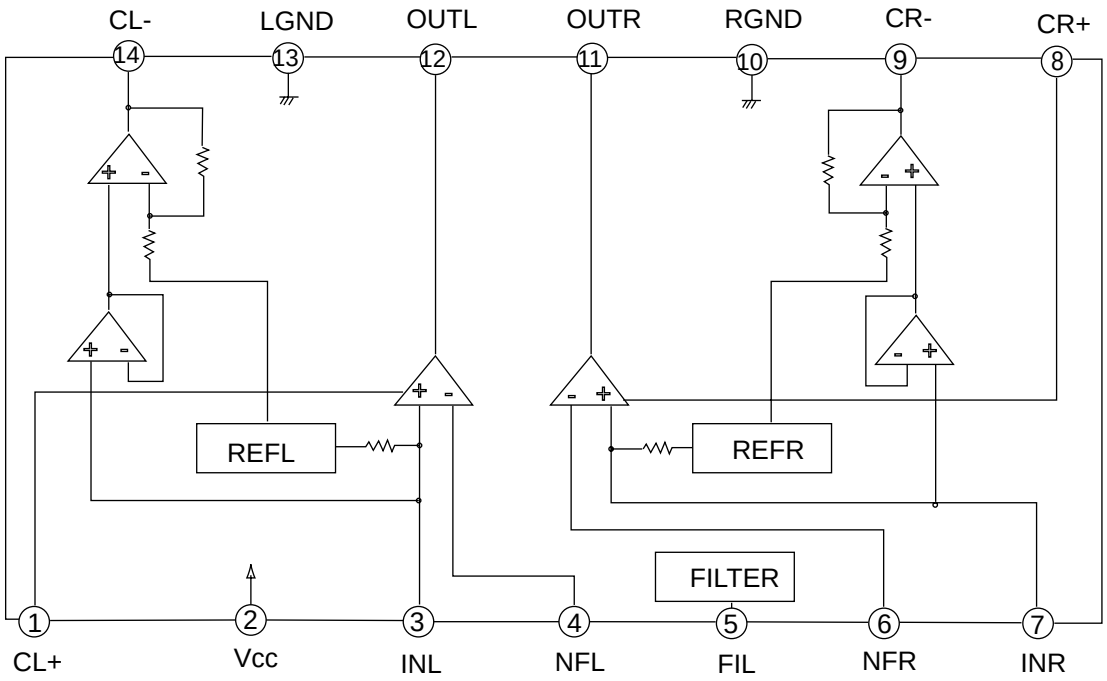
SECTION 4
Description of major ICs

4.1 BA3220FV-X (IC171,IC271) : Line out amplifier

- Pin layout

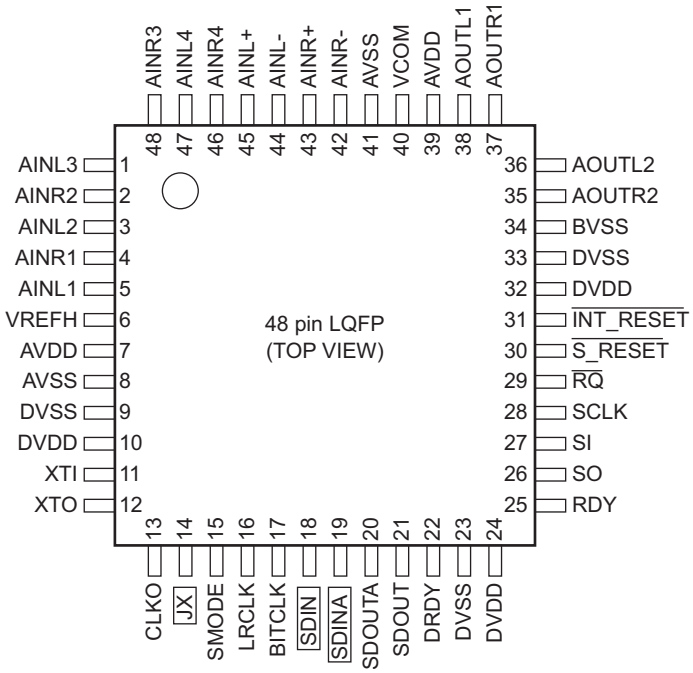


- Block diagram



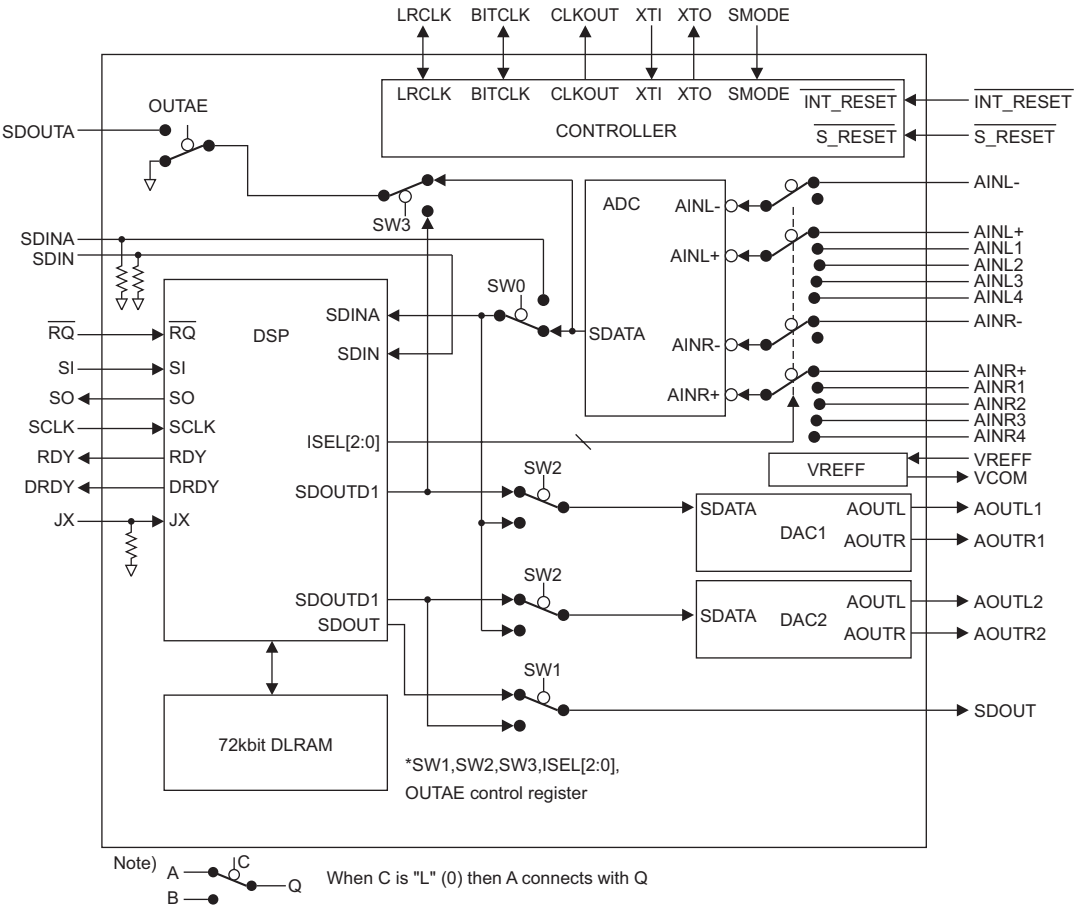
4.2 AK7740VT (IC101) : Audio DSP with AD/DA converter

- Pin layout



Note) JX , SDIN and SDINA are Pull-down pins

- Block diagram

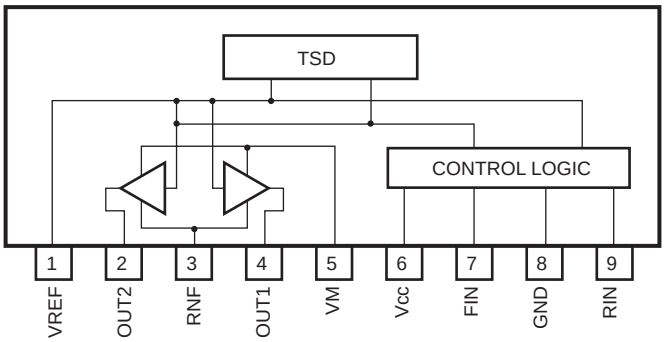


• Pin function

Pin No.	Symbol	I/O	Function
1	AINL3	I	ADC single-ended analog Lch input pin No.3
2	AINR2	I	ADC single-ended analog Rch input pin No.2
3	AINL2	I	ADC single-ended analog Lch input pin No.2
4	AINR1	I	ADC single-ended analog Rch input pin No.1
5	AINL1	I	ADC single-ended analog Lch input pin No.1
6	VREFH	I	Analog Reference voltage input pin. Normally, connect to AVDD (pin 7), and connect 0.1mF and 10mF capacitors between this pin and AVSS.
7	AVDD	-	Power supply pin for analog section 3.3V (typ)
8	AVSS	-	Analog ground 0V
9	DVSS	-	Ground pin for digital section 0V
10	DVDD	-	Power supply pin for digital section 3.3V (typ)
11	XTI	I	Master clock input pin Connect a crystal oscillator between this pin and the XTO pin, or input the external CMOS clock signal XTI pin.
12	XTO	O	Crystal oscillator output pin When a crystal oscillator is used, it should be connected between XTI and XTO. When the external clock is used, keep this pin open
13	CLKO	O	Clock output pin Outputs the XTI clock. Allows the output to be set to "L" by control register setting.
14	JX	I	External condition jump pin (Pull down)
15	SMODE	I	Slave/master mode selector pin Set LRCLK and BITCLK to input or output mode. SMODE-"L": Slave mode (These are set to input mode.) SMODE-"H": Master mode (These are set to output mode.)
16	LRCLK	I/O	LR channel select Clock pin SMODE-"L": Slave mode : Inputs the fs clock. SMODE-"H": Master mode : Outputs the fs clock.
17	BITCLK	I/O	Serial bit clock pin SMODE-"L": Slave mode : Inputs 64 fs or 48 fs clocks. SMODE-"H": Master mode : Outputs 64 fs clocks.
18	SDIN	I	DSP Serial data input pin (Pull down) Compatible with MSB/LSB justified 24 20 and 16 bits.
19	SDINA	I	DSP Serial data input pin (Pull down) Leave opens or connect to DVSS at using the internal ADC. Compatible with MSB justified 24 bits.

4.3 BA6956AN (IC981) : Reversible motor driver

• Pin layout & Block diagram



• Pin function

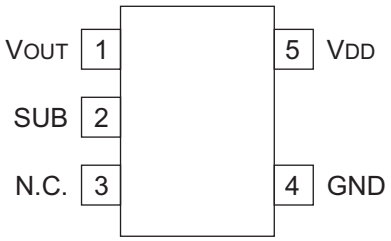
Pin No.	Symbol	Function
1	VREF	Output high voltage level control terminal
2	OUT2	Output terminal for motor
3	RNF	GND of driver division
4	OUT1	Output terminal for motor
5	VM	Power supply for driver division
6	Vcc	Power supply for signal division
7	FIN	Input terminal for control logic
8	GND	GND
9	RIN	Input terminal for control logic

• Truth table

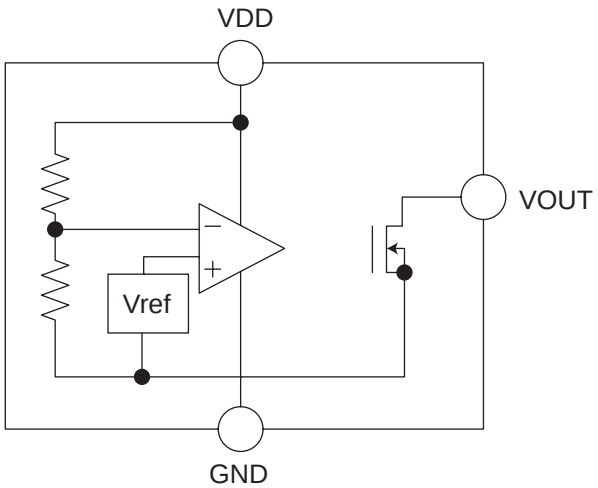
FIN	RIN	OUT1	OUT2	MODE
H	L	H	L	Forward rotation mode
L	H	L	H	Reverse rotation mode
H	H	L	L	Break Mode
L	L	OPEN	OPEN	Stand-by mode

4.4 BD4833FVE-W (IC702) : Regulator

• Pin layout



• Block diagram

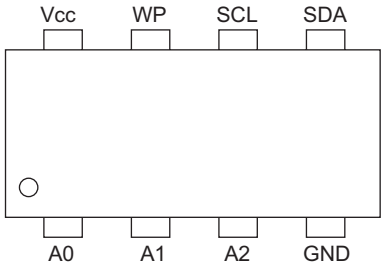


• Pin functions

Pin No	Symbol	Function
1	VOUT	Reset output
2	SUB	Sub slate (connect to GND)
3	N.C.	Non connect
4	GND	GND
5	VDD	Power supply voltage

4.5 BR24L32F-W-X (IC703) : EEPROM

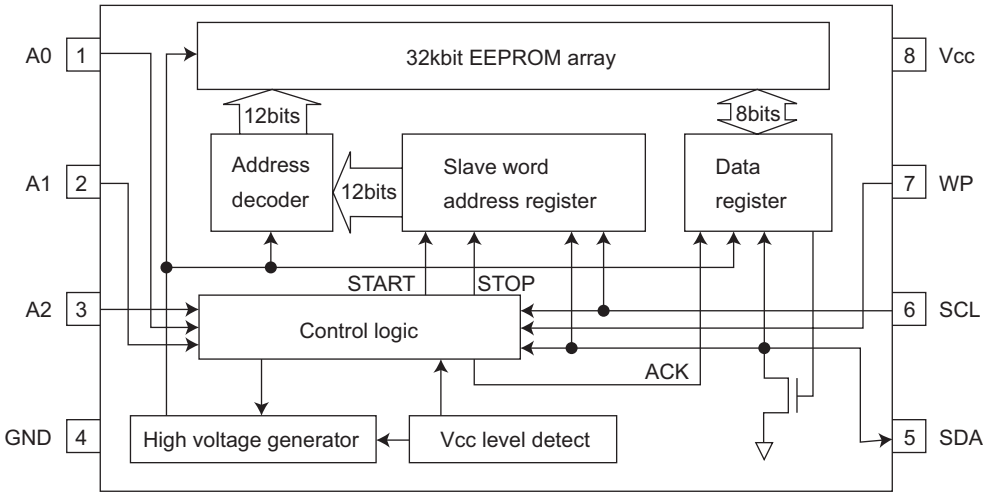
• Pin layout



• Block diagram

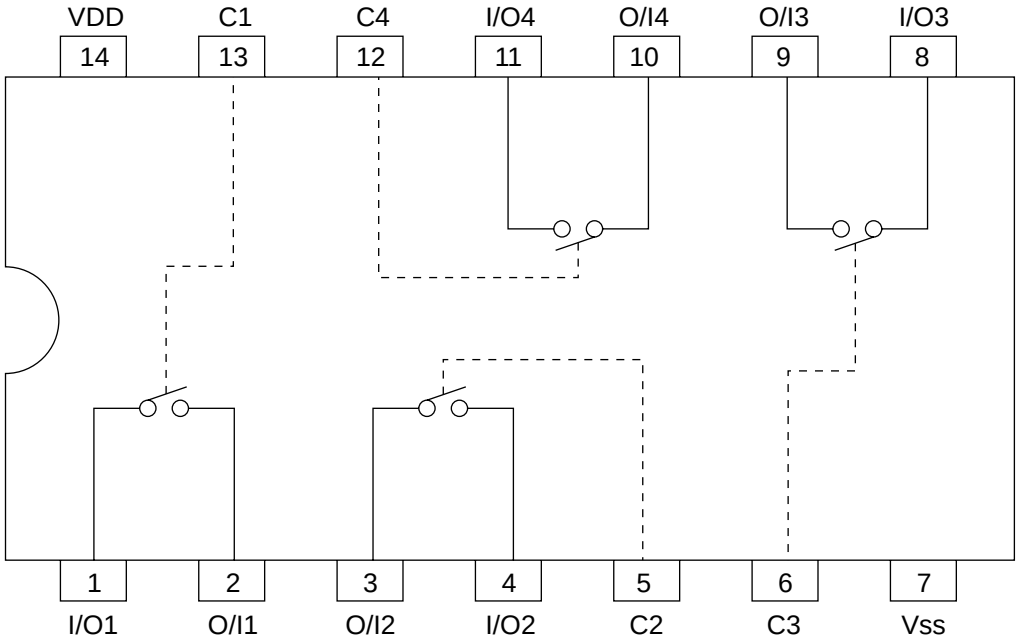
Symbol	I/O	Function
A0A1A2	I	Slave address set
GND	-	Ground (0V)
SDA	I/O	Slave and word address
		Serial data input serial data output
SCL	I	Serial clock input
WP	I	Write protect input
VCC	-	Power supply

• Block diagram



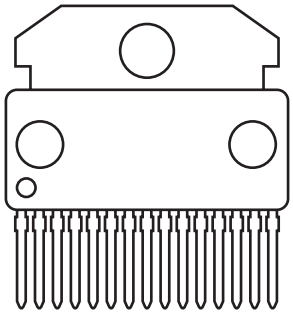
4.6 BU4066BCFV-X (IC322,IC351) : Quad analog switch

• Pin layout & Block diagram

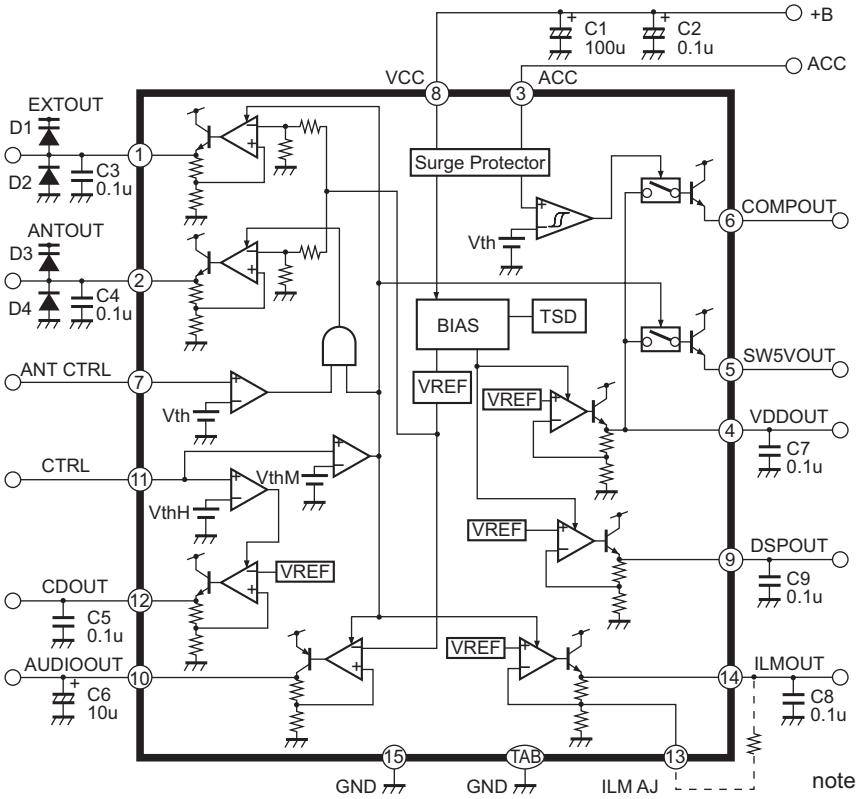


4.7 HA13166 (IC911) : System regulator for car-audio

- Pin layout

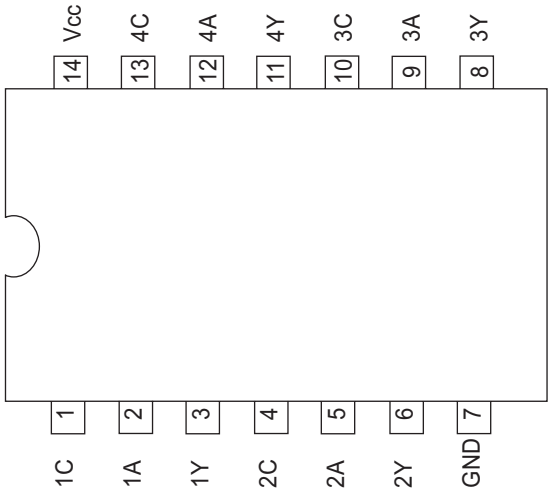


- Block diagram



4.8 HD74HCT126T-X (IC503) : Buffer

- Pin arrangement

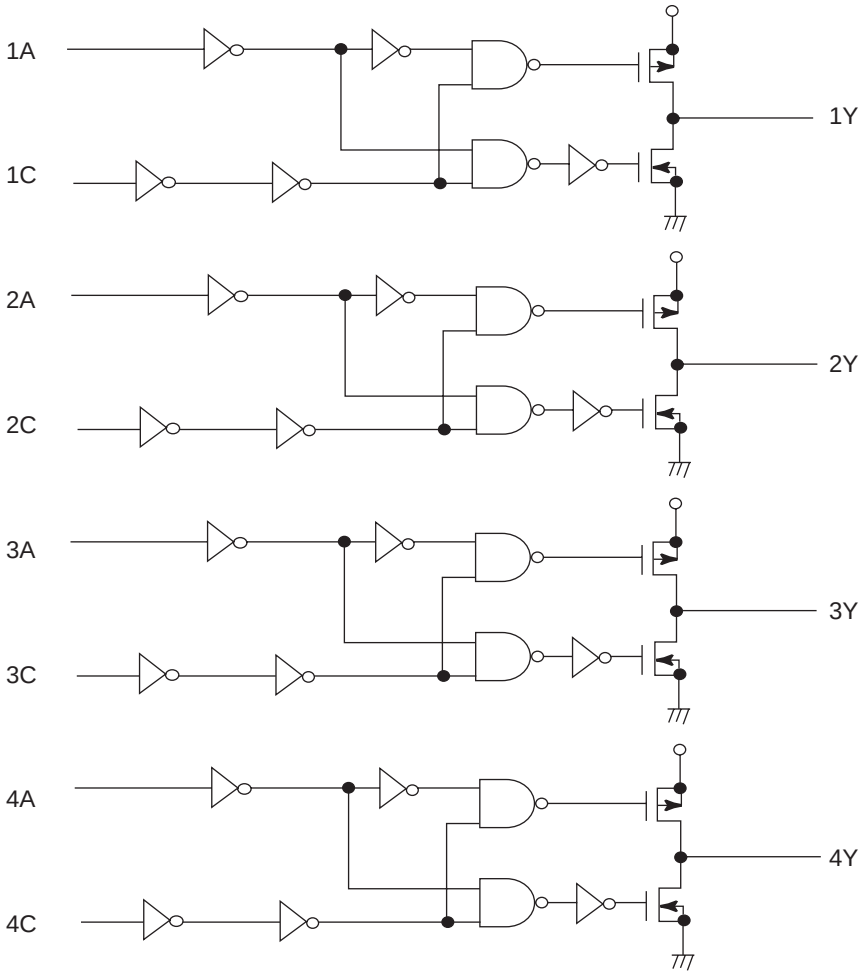


- Pin function

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

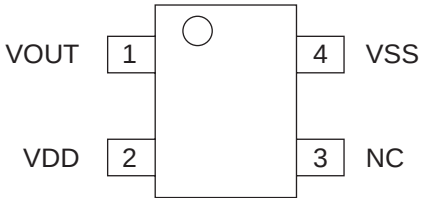
H : High level
L : Low level
X : Irrelevant
Z : Off (Hhigh-impedance)state of a 3-stage output

- Block diagram

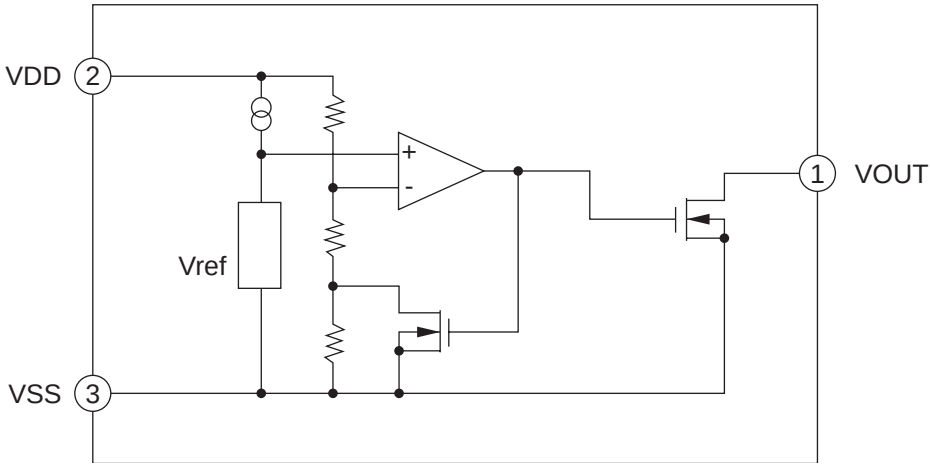


4.9 IC-PST3424U-X (IC803) : Reset

- Pin layout



- Block diagram

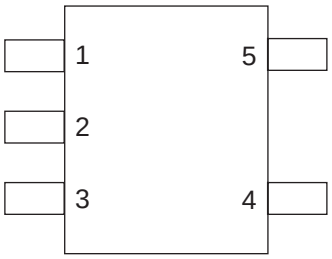


- Pin function

No.	Pin Name	Function
1	Vout	Reset Signal Output PIN
2	VDD	VDD PIN / Voltage Detect PIN
3	NC	Non connect
4	VSS	VSS PIN

4.10 NJU7241F33-X (IC504,IC804) : Voltage regulator

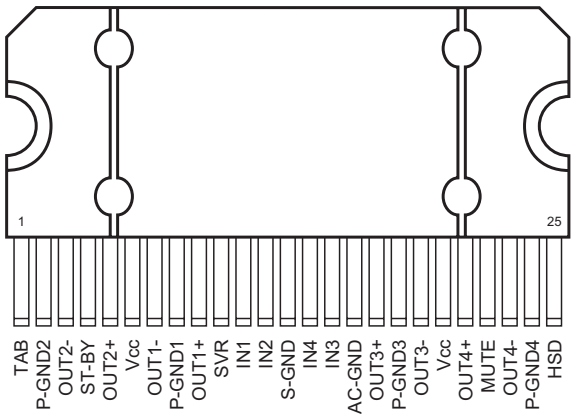
- Pin layout



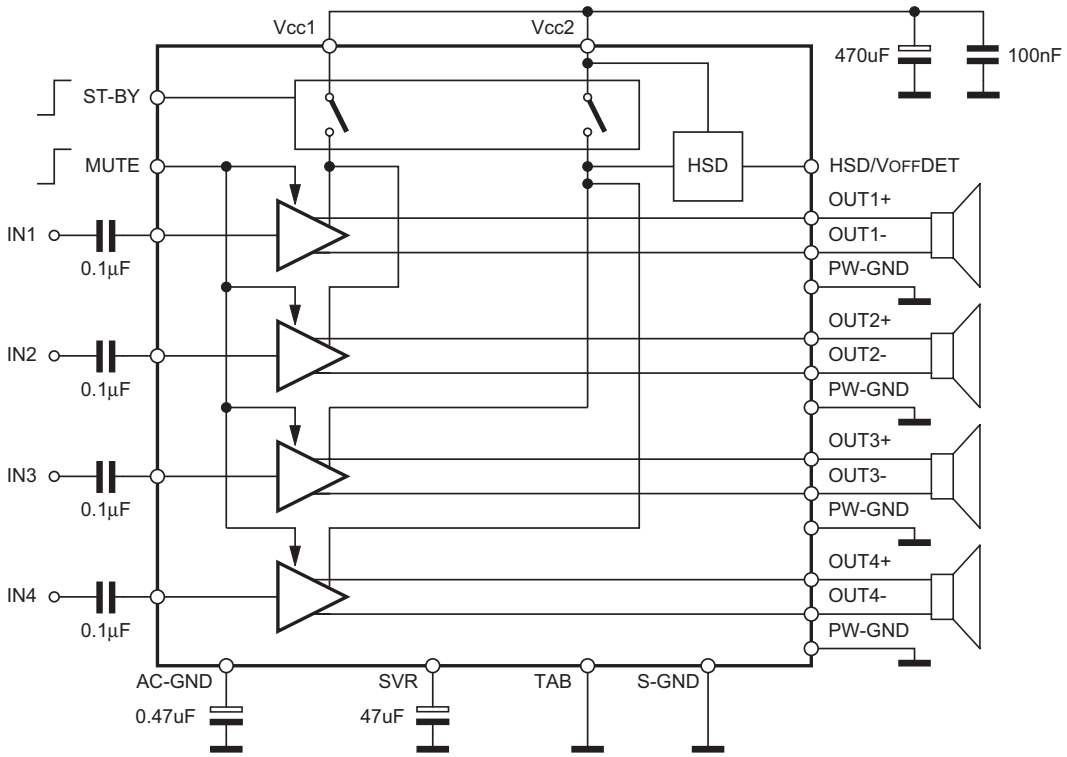
PIN FUNCTION
1. GND
2. V_{IN}
3. V_{OUT}
4. +NC
5. STB

4.11 TDA7560-8U (IC301) : Car radio amplifier

- Pin layout

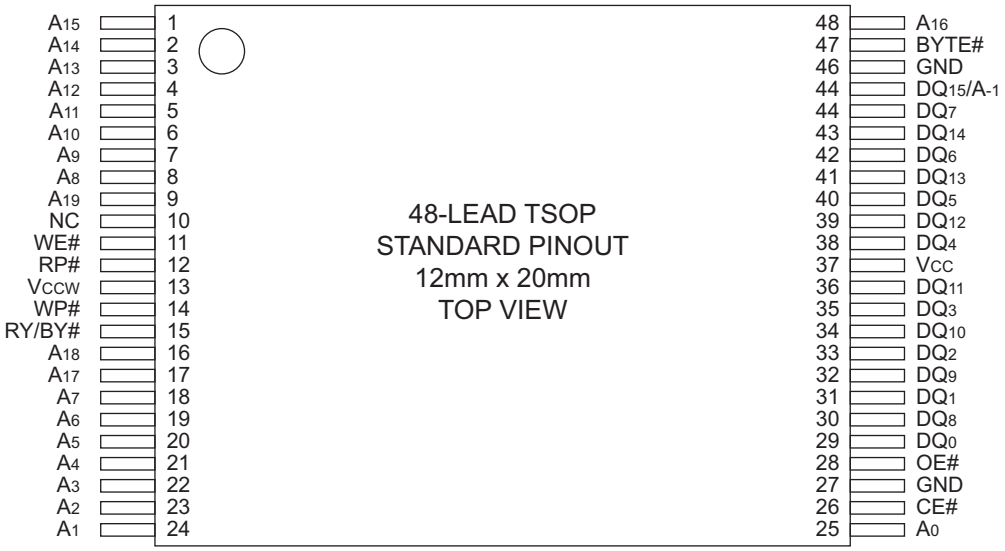


- Block diagram

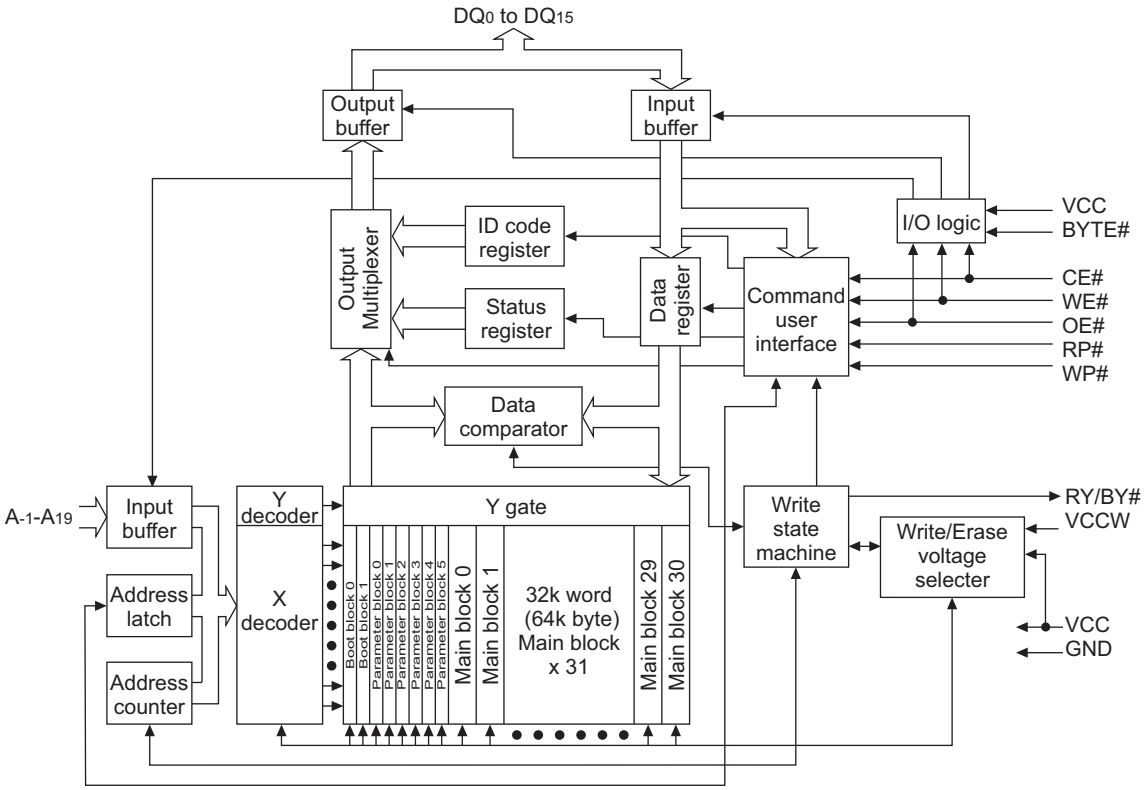


4.12 LH28F160BJHET93 (IC803) : 16M flash memory

- Pin layout



- Block diagram

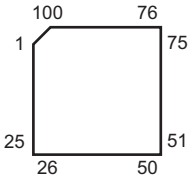


• Pin function

Pin No.	Symbol	I/O	Function
1 to 8	A_{15} to A_8	I	Address input for memory address
9	A_{19}	I	Address input for memory address
10	NC	-	Non connection
11	WE#	I	Write enable
12	RP#	I	Reset
13	VCCW	-	Power supply for write/erase
14	WP#	I	Write protect
15	RY/BY#	O	Ready/Busy
16,17	A_{18},A_{17}	I	Address input for memory address
18 to 25	A_7 to A_0	I	Address input for memory address
26	CE#	I	Chip enable
27	GND	-	Ground
28	OE#	I	Output enable
29	DQ_0	I/O	Data input/output
30	DQ_8	I/O	Data input/output
31	DQ_1	I/O	Data input/output
32	DQ_9	I/O	Data input/output
33	DQ_2	I/O	Data input/output
34	DQ_{10}	I/O	Data input/output
35	DQ_3	I/O	Data input/output
36	DQ_{11}	I/O	Data input/output
37	VCC	-	Power supply
38	DQ_4	I/O	Data input/output
39	DQ_{12}	I/O	Data input/output
40	DQ_5	I/O	Data input/output
41	DQ_{13}	I/O	Data input/output
42	DQ_6	I/O	Data input/output
43	DQ_{14}	I/O	Data input/output
44	DQ_7	I/O	Data input/output
45	DQ_{15}	I/O	Data input/output
45	A_{-1}	I	Address input for memory address
46	GND	-	Ground
47	BYTE#	I	Byte enable
48	A_{16}	I	Address input for memory address

4.13 MN102H60KCJ1 (IC801) : LCD display sub CPU

• Pin layout



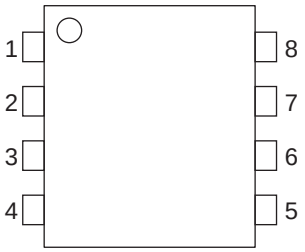
• Block diagram

Pin No.	Symbol	I/O	Function
1	RES	O	LCD reset output
2	RE	O	Read enable output for extension memory
3	WE	O	Write enable output for extension memory
4	VCCWCNT	O	Writing voltage control for external ROM
5	RY/BY	I	Read/Busy input for extension memory
6	CS0	O	Chip select1 output for extension memory
7	NC	-	Connect to ground
8	SWLED4	O	SW_LED flashing output 4 for [PRESET1-6] key LED
9	SWLED5	O	SW_LED flashing output 5 for [SEEKUP]+[SEEKDOWN] key LED
10	SWLED6	O	SW_LED flashing output 6 for [DISCUP]+[DISCDOWN] key LED
11	NC	-	Connect to ground
12	WORD	I	Bus width setting for extension memory (H: 8-bit width)
13 to 16	A0 to A3	O	Extension memory output 0 to 3
17	VDD	-	Power supply
18	NC	O	Not use (Base clock output)
19	VSS	-	Ground
20	XI	I	Connect to ground
21	XO	O	Not connect
22	VDD	-	Power supply
23	OSCI	I	Crystal connecting terminal (25MHz)
24	OSCO	O	Crystal connecting terminal (25MHz)
25	MODE	I	Mode setting input, pull up (H: memory extension mode)
26 to 33	A4 to A11	O	Extension memory output 4 to 11
34	AVDD	-	Analog power supply
35 to 42	A12 to A19	O	Extension memory output 12 to 19
43	AGND	-	Analog reference power supply, connect to ground
44	A20	O	Extension memory output 20
45	THERMAL	I	Thermal fuse input
46	ANA	I	Audio level input for spectrum analyzer
47	WDOUT	O	Watch dog timer over flow output (H: over flow)
48	PON	O	Power on output
49	RD	O	LCD read strobe output
50	LCDCLK	O	LCD driver clock output (300kHz)
51	WR	O	LCD write strobe output
52,53	NC	-	Not connect
54	AVDD	-	Analog reference power supply, connect to AVDD
55	RS	O	LCD regist select output

Pin No.	Symbol	I/O	Function
56	CS	O	LCD chip select output
57	NC	-	Connect to ground
58	VOL1	I	Rotary encoder input 1
59	VOL2	I	Rotary encoder input 2
60	SWLED3	-	Not connect
61	AGND	-	Analog ground
62 to 65	KEY0 to KEY3	I	Key 0 to 3 input AD terminal
66	VDD	-	Power supply
67	SWLED0	O	SW_LED flashing output 0 for [VOL] key LED
68	SWLED1	O	SW_LED flashing output 1 for [SEL] key LED
69	SWLED2	O	SW_LED flashing output 2 for [DISP] key LED
70	DISPCLK	I	Serial communication clock input
71	DISPDATA	I	Displaying data input (Serial)
72	KEYDATA	O	Key code data output (Serial)
73	SIFDA	I/O	On board serial writing data input/output pull up
74	SIFCK	I	On board serial writing clock input, pull up
75	NMI	I	NMI (H fix)
76	DISPCE	I	Chip enable input for serial communication
77		-	Ground
78	PSAVE2	I	POWER SAVE2 (Memory power supply off) detecting input
79	NC	-	Not use
80	KEY_IN	I	Key interrupt input
81	ADSEP	I	Address data separate/common mode setting terminal H: separate mode
82	RESET	I	Reset input (L: reset)
83	VDD	-	Power supply terminal
84 to 91	D0 to D7	I	Extension memory input 0 to 7
92	GND	-	Ground
93 to 100	P10 to P17	I	LCD data bus input/output 0 to 7

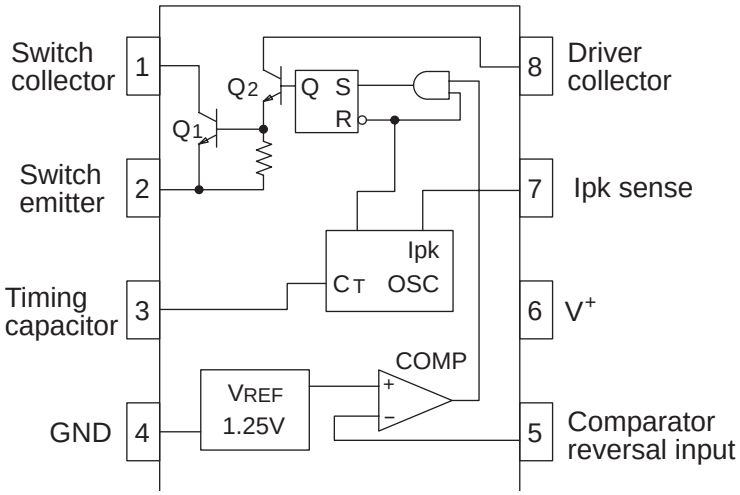
4.14 NJM2360AM-X (IC921) : DC-DC convertor

- Pin layout



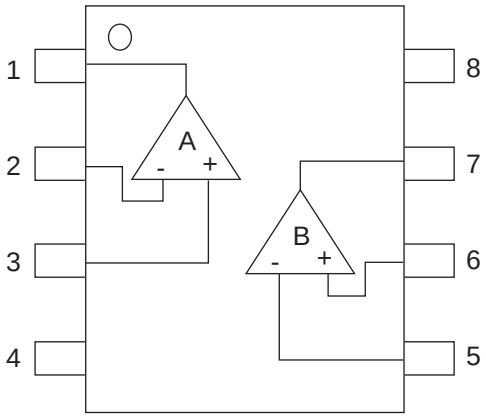
1. Cs
2. Es
3. CT
4. GND
5. INVIN
6. Vcc
7. SI
8. CD

- Block diagram



4.15 NJM4565V-X (IC132,IC171) : Dual operational amplifier

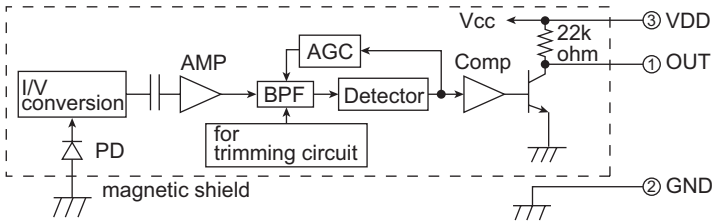
- Pin layout & Block diagram



1 AOUTPUT
2 A-INPUT
3 A+INPUT
4 V-
5 B+INPUT
6 B-INPUT
7 B OUTPUT
8 V+

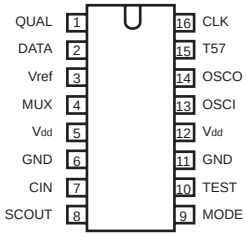
4.16 RPM6938-SV4 (IC602) : Remote control receiver

- Block diagram

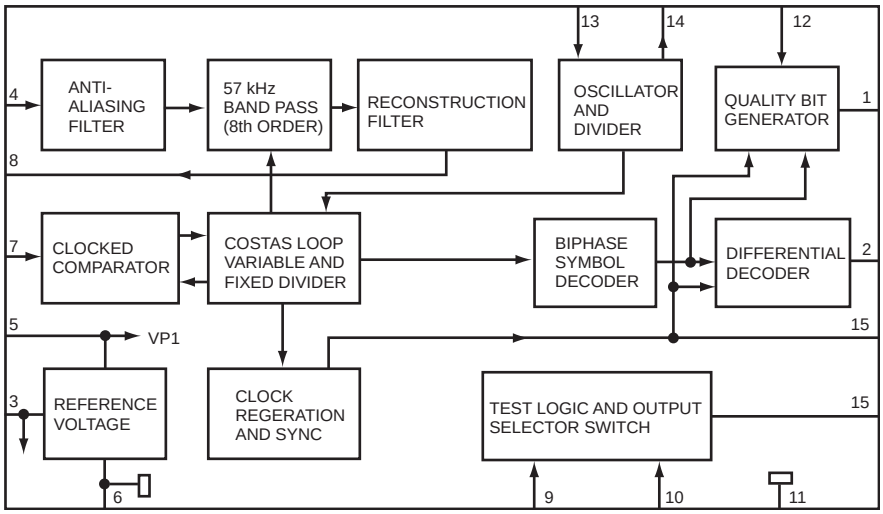


4.17 SAA6579T-X (IC71) : RDS detecter

- Pin layout



- Block diagram

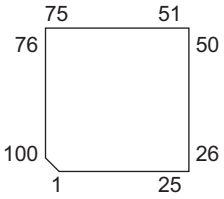


- Pin function

Pin No.	Symbol	Description
1	QUAL	Quality indication output
2	DATA	RDS data output
3	Vref	Reference voltage output (0.5VDDA)
4	MUX	Multiolex signal input
5	Vdd	+5V supply voltage for analog part
6	GND	Ground for analog part (0V)
7	CIN	Sub carrier input to comparator
8	SCOUT	Sub carrier output of reconstruction filter
9	MODE	Oscillator mode / test control input
10	TEST	Test enable input
11	GND	Ground for digital part (0V)
12	Vdd	+5V supply voltage for digital part
13	OSCI	Oscillator input
14	OSCO	Oscillator output
15	T57	57 kHz clock signal output
16	CLK	RDS clock output

4.18 UPD784217AGC217 (IC701) : CPU

• Pin layout



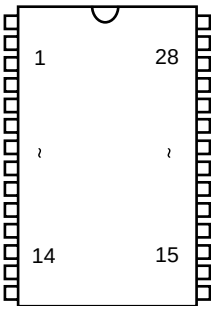
• Block diagram

Pin No	Symbol	I/O	Function
1	S.SELECT	O	E-VOL selection output, H: REAR L: FRONT
2	DSP.SELECT	O	DSP or Source direct selection output, H: Source direct L: DSP
3	LINE IN ON	O	OTHER
4	AMP KILL	O	Internal amplifier ON/OFF selection, H: OFF L: ON
5 to 7	NOT USE	-	Not connect
8	ANT CONT	O	Antenna remote control
9	VDD	-	Power supply
10	X2	-	
11	X1	I	
12	VSS	-	Ground
13	XT2	-	
14	XT1	-	
15	RESET	I	System reset
16	REMOCON	I	Remocon input
17	BUS-INT	I	J-BUS INT
18	PS2	I	Power save2, H means STOP mode
19	CD-REQ	I	CD REQ INPUT
20	RDS-SCK	-	Not use
21	STEERING REMOCON	I	Steering remocon input
22	KEY DATA	I	KEY DATA
23	AVDD	-	A/D converter power supply
24	AVREF0	-	A/D reference voltage
25	VOL1	I	Volume encoder pulse input 1
26	VOL2	I	Volume encoder pulse input 2
27 to 29	NOT USE	-	Connect to ground
30	MRC	I	MRC input
31	SQ	I	Not use, pull down
32	SM	I	S.METER input
33	AVSS	-	Ground
34	NOT USE	-	Not connect
35	STAGE3	I	Feature selection, H: SH9750 L: SH9700
36	AVREF	-	
37	BUS-SI	I	J-BUS data input
38	BUS-SO	O	J-BUS data output
39	BUS-SCK	I/O	J-BUS clock input/output
40	BUS-I/O	O	J-BUS I/O selection output: H input: L
41	DISP DA	O	DISPLAY DATA output
42	DISP SCK	O	DISPLAY SCK
43	DISP CE	O	DISPLAY CE
44	BUZZER	O	Buzzer output
45	E2PROM-DI	I	I2C data input
46	E2PROM-DO	O	I2C data output
47	E2PROM-CLK	O	I2C clock output

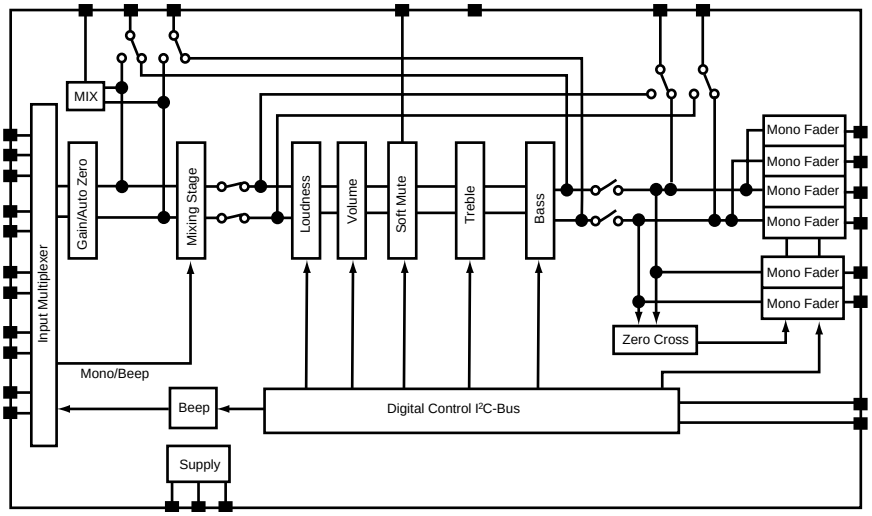
Pin No	Symbol	I/O	Function
48	NOT USE	-	Not connect
49	DETACH	I	Detach detect input; H means detaching
50	RDY	I	DSP data writing ready input
51	INPUT OVER	I	ILINE,AUX input over detecting port, L: Input over
52	S.RESET	O	DSP system reset output
53	INIT.RESET	O	DSP initialize reset output
54	RQ	O	DSP request input, RQ=L: Interface to micom
55	DSP SCK	O	DSP CLOCK OUTPUT
56	DSP DA	O	DSP data output
57	DSP SI	I	DSP data input
58	BBE	O	BBE ON/OFF selecting output, H: BBE1,2,3,FIX L: OFF
59	NOT USE	-	Not connect
60	RDS DA	-	Not use
61	SD/ST	I	Station detector or stereo indicator input; H means a station is there, L means the program is stereo.
62	AFCK	-	Not use
63	SEEK/STOP	O	Auto seek and stop selecting output; H means seeking, L means receiving.
64	CF SEL	O	Wide & Narrow
65	FM/AM	O	FM,AM band selecting output; H=FM, L=AM
66	PLL-CE	O	CE output for PLL IC
67	PLL-DO	O	Data output for PLL IC
68	PLL-CLK	O	Clock output for PLL IC
69	PLL-DI	I	Data input from PLL IC
70	TEL-MUTING	I	Telephone muting detection input; Active level can be selected H or L in PSM
71	DIM-OUT	O	Dimmer detector output
72	VSS	-	Ground
73	DIM-IN	I	Dimmer detector input L=dimmer on
74	PS1	I	Power save1 L=ACC off
75	POWER	O	Power ON/OFF control output H=power on
76	NOT USE	O	Not connect
77	MUTING	O	Muting output L=muting on
78	CD MUTING	I	CD mute input L=mute on
79	CD RESET	O	CD reset control out H=reset on
80	NOT USE	-	Not connect
81	VDD	-	Power supply
82	VOL-MUTE	-	Not use
83	VOL-DA	O	Data output for e-vol IC
84	VOL-CLK	O	Clock output for e-vol IC
85	NOT USE	O	Not connect
86	SUB MUTING	O	Muting control output for subwoofer
87	LPF1	O	LPF control1
88	LPF2	O	LPF control2
89	STAGE2	I	Feature selection H: R or Do L: J or U
90	STAGE1	I	Feature selection H: R or U L: J or Do
91	PM0	O	Panel motor close control output
92	PM1	O	Panel motor open control output
93	PMKICK	O	Panel motor kick control output
94	TEST		For rewriting flash memory
95	PNL-SW1	I	Panel position sw1
96	PNL-SW2	I	Panel position sw2
97	PNL-SW3	I	Panel position sw3
98	PNL-SW4	I	Panel position sw4
99	PNL-SW5	I	Panel position sw5
100	PNL-SW6	I	Panel position sw6

4.19 TDA7404D-X (IC911) : Car radio signal processor

- Pin layout



- Block diagram



JVC

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AV & MULTIMEDIA COMPANY MOBILE ENTERTAINMENT CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.49841)

Printed in Japan
WPC

PARTS LIST

[KD-SH9101]

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

Area suffix

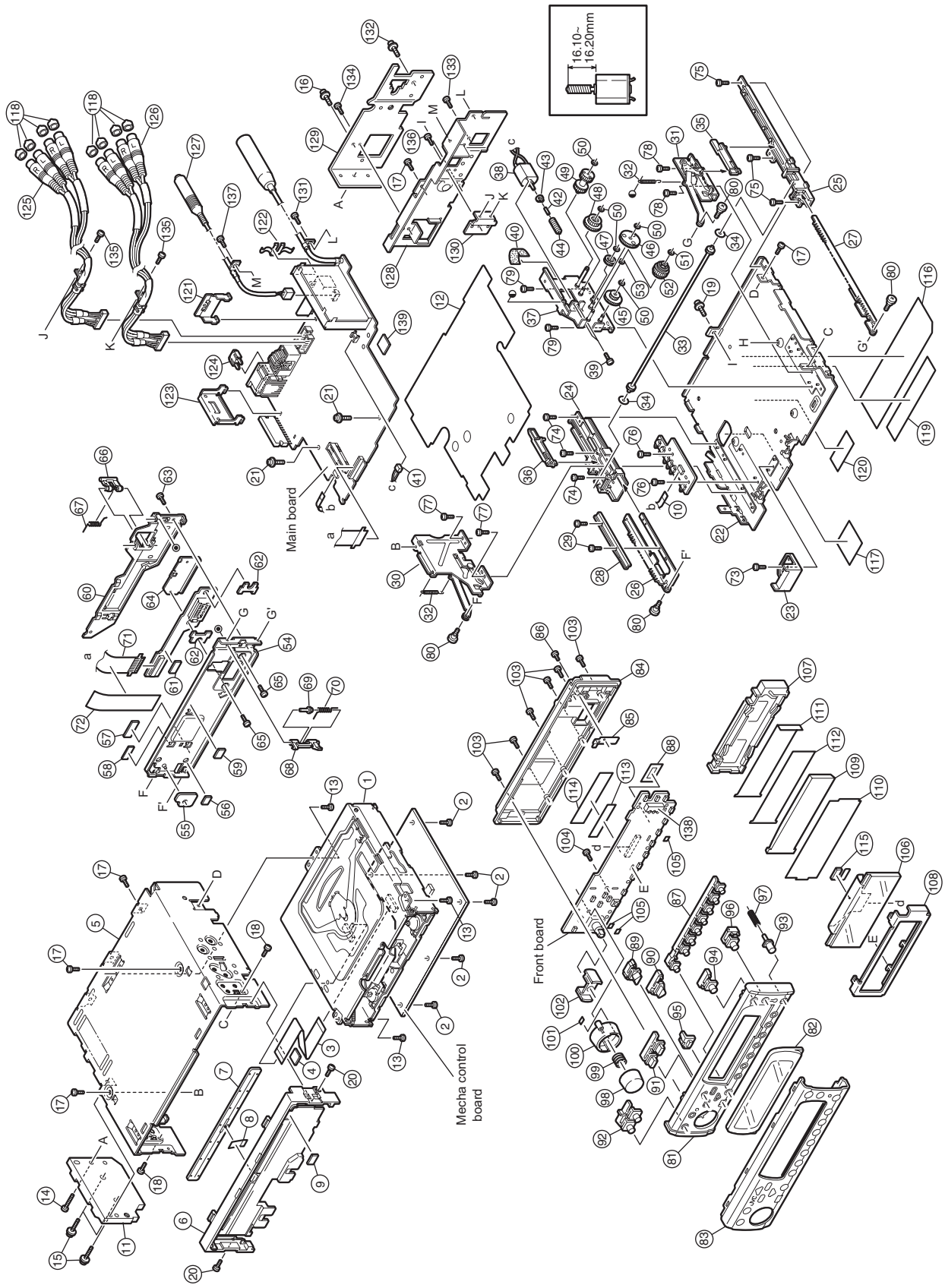
E---------- Continental Europe

EX ---------- Central Europe

- Contents -

Exploded view of general assembly and parts list

Block No. M 1 M M



General assembly

Block No. [M][1][M][M]

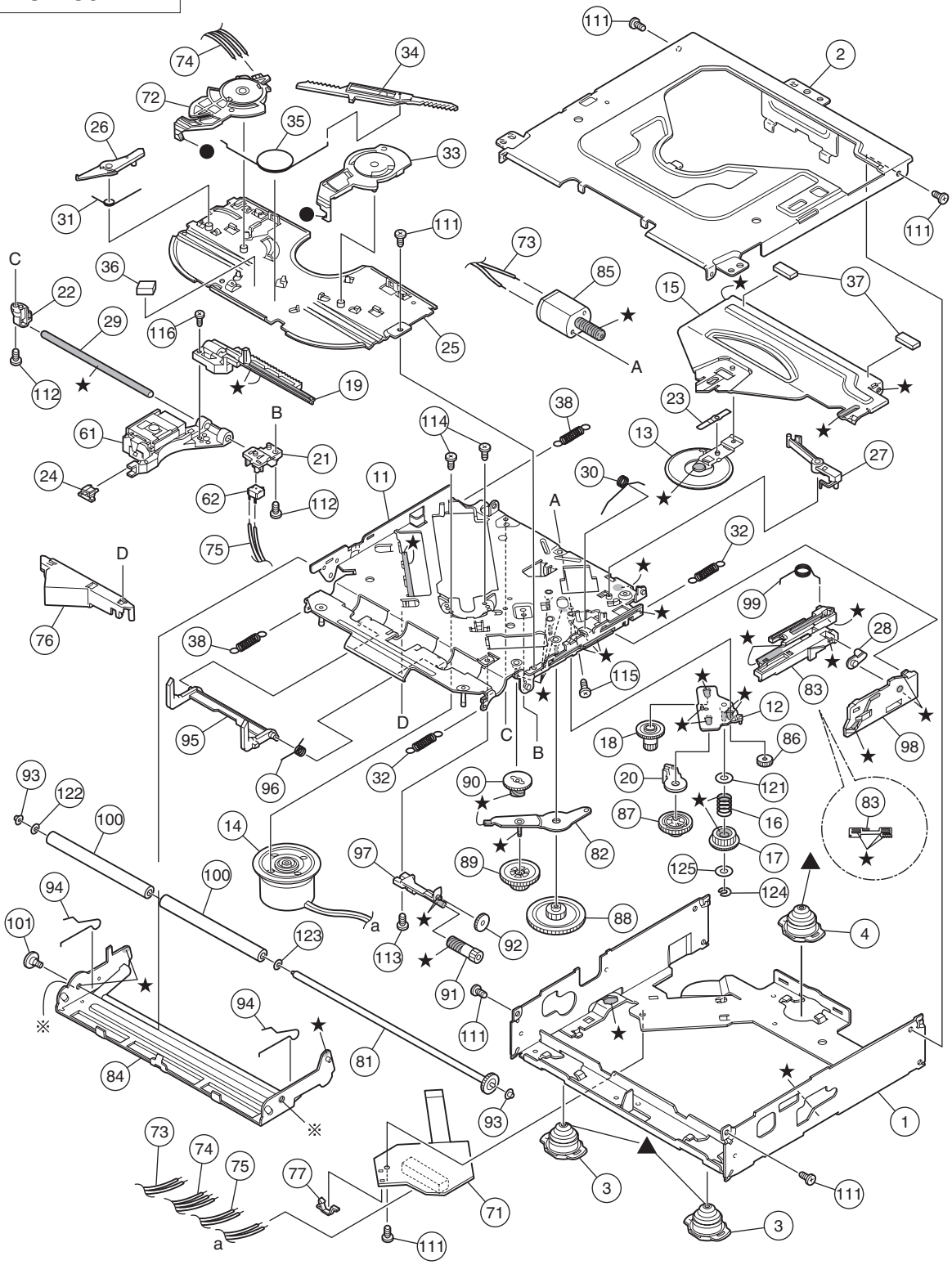
⚠ Symbol No.	Part No.	Part Name	Description	Local
1	----------	CD MECHA		
2	QYSDST2004Z	SCREW	2mm x 4mm(x5)	
3	QUQ105-2207AE	FFC WIRE		
4	VYSH101-009	SPACER		
5	LV10461-001A	TOP CHASSIS		
6	LV32559-003B	FRONT CHASSIS		
7	LV40828-003A	BLIND		
8	LV42419-001A	LENS SHEET		
9	LV40846-017A	SPACER(F)		
10	WJT0057-001A	E CARD WIRE		
11	LV32451-001A	SIDE HEAT SINK		
12	LV32452-001B	INSULATOR		
13	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
14	QYSDSF2610Z	TAPPING SCREW	2.6mm x 10mm	
15	LV41200-003A	SPECIAL SCREW	(x3)	
16	LV41200-003A	SPECIAL SCREW		
17	QYSDST2604Z	SCREW	2.6mm x 4mm(x5)	
18	QYSDST2604Z	SCREW	2.6mm x 4mm(x2)	
19	LV41200-001A	SPECIAL SCREW		
20	QYSPSP2003M	SCREW	2mm x 3mm(x2)	
21	LV41200-001A	SPECIAL SCREW	(x2)	
22	LV10463-002A	BOTTOM CHASSIS		
23	LV32453-001A	FPC GUIDE		
24	LV20929-001A	GUIDE RAIL(L)		
25	LV20930-001A	GUIDE RAIL(R)		
26	LV42239-001A	S PLATE(L) ASSY		
27	LV42240-001A	S PLATE(R) ASSY		
28	LV42104-001A	DETECT PLATE		
29	QYSPSPU1725M	SCREW	1.7mm x 2.5mm(x2)	
30	LV32569-003A	A BKT ASSY(L)		
31	LV32570-001A	A BKT ASSY(R)		
32	LV42112-001A	TENS SPG(L)	(x2)	
33	LV32459-001A	ROD GEAR(SH)		
34	QYWFL259013-0	WASHER	0.1mm x (x2)	
35	LV32530-001A	GUIDE BLOCK(R)		
36	LV32531-001A	GUIDE BLOCK(L)		
37	LV32460-001A	MOTOR BKT ASSY		
38	QAR0182-001	MOTOR(FEED)		
39	QYSPSPT2020Z	MINI SCREW	2mm x 2mm(x2)	
40	LV40847-002A	SPACER		
41	WJM0204-001A	E-SI C WIRE C-F		
42	LV42455-001A	SHAFT		
43	LV42437-001A	ROTOR		
44	LV42436-001A	WORM GEAR		
45	LV42115-003A	GEAR S1		
46	LV42116-002A	GEAR S2		
47	LV42117-001A	GEAR S3		
48	LV42118-002A	GEAR S4		
49	LV42119-001A	GEAR S5		
50	WDM215025	WASHER	(x5)	
51	WDM214540	WASHER		
52	LV30981-005A	CLUTCH ASSY		
53	QYWFL266010-9	WASHER	0.1mm x	
54	LV32558-003A	FRONT BKT ASSY		
55	LV42394-001A	ABSORBER		
56	LV40846-022A	SPACER(F)		
57	LV40846-018A	SPACER(F)		
58	LV40846-038A	SPACER(F)		
59	LV40846-022A	SPACER(F)		
60	LV20933-002A	CONECTOR COVER		
61	LV40846-018A	SPACER(F)		
62	LV42534-001A	CONNECT PTN	(x2)	
63	QYSPSPU1730M	SCREW	1.7mm x 3mm	
64	LV32461-001A	REINFORCE PLATE		
65	QYSPSP2003M	SCREW	2mm x 3mm(x2)	
66	LV32462-001A	OPEN LEVER		
67	LV42122-001A	TORSION SPRING		
68	LV32463-001A	DETACH LEVER		
69	LV42123-001A	DTCH LVR SHAFT		
70	LV42124-001A	TORSION SPRING		
71	QAL0314-002	FPC		
72	LV42420-001A	FPC SHEET		
73	LV40865-001A	MINI SCREW		
74	LV40865-001A	MINI SCREW	(x3)	
75	LV40865-001A	MINI SCREW	(x3)	
76	LV40865-001A	MINI SCREW	(x2)	
77	LV40865-001A	MINI SCREW	(x2)	
78	LV40865-001A	MINI SCREW	(x2)	
79	LV40865-001A	MINI SCREW	(x2)	
80	LV42181-002A	SPECIAL SCREW	(x4)	
81	LV10779-001A	FRONT PANEL		
82	LV34112-009A	FINDER		
83	LV21461-001A	AL PANEL		
84	LV10780-002A	REAR COVER		
85	LV34108-001A	EARTH SPRING R		
86	QYSPSPU1730M	SCREW	1.7mm x 3mm	
87	LV21458-001A	PRESET BUTTON		
88	LV42456-001A	SW PWB SHEET		
89	LV34088-001A	PUSH BUTTON 1		
90	LV34089-001A	PUSH BUTTON 2		
91	LV34090-001A	UP/DOWN BUTTON		
92	LV34127-004A	PUSH BUTTON 4		
93	LV34111-001A	DETACH BUTTON		
94	LV34109-001A	EJECT BUTTON		
95	LV34094-001A	REMOTE LENS		
96	LV34110-002A	PUSH BUTTON		
97	LV42128-001A	COMP.SPRING		
98	LV34095-001A	VOL KNOB ASSY		
99	LV43183-001A	COMP.SPRING		
100	LV34098-001A	KNOB RING		
101	LV40848-008A	SPACER		
102	LV34099-001A	KNOB LENS		
103	VKZ4777-001	MINI SCREW	(x6)	
104	VKZ4777-001	MINI SCREW		
105	LV40848-008A	SPACER	(x3)	
106	QLD0232-001	LCD MODULE		
107	LV34113-001A	LCD HOLDER		
108	LV34114-001A	LCD CASE		
109	LV34101-001A	LCD LENS		
110	LV43368-002A	LCD FILTER		
111	LV43369-002A	COLOR SHEET		
112	LV43439-001A	LENS SHEET		
113	LV43084-001A	DOUBLE FACE		
114	LV40848-034A	SPACER		
115	LV40846-036A	SPACER		
116	LV34357-001A	NAME PLATE		
117	LV41143-001A	SHEET		
118	GE40101-001A	PIN CAP	(x8)	
119	LV41843-001A	LASER CAUTION		
120	E70891-001	CLASS 1 LABEL		
121	LV41993-001A	REG BKT		
122	VMA4652-001SS	EARTH PLATE		
123	LV42297-001A	IC BRACKET		
⚠ 124	QMFZ039-150-T	FUSE	15A	
125	QAM0412-001	PIN CORD ASSY		
126	QAM0413-001	CAR CABLE		
127	QAM0237-001	CAR CABLE		
128	LV30943-202A	REAR BRACKET		
129	LV30946-006A	REAR HEAT SINK		
130	LV40790-002A	PIN CORD BRKT		
131	QYSDST2604Z	SCREW	2.6mm x 4mm	
132	LV41200-003A	SPECIAL SCREW		
133	QYSDST2606Z	SCREW	2.6mm x 6mm	
134	QYSDST2606Z	SCREW	2.6mm x 6mm	
135	QYSDST2604Z	SCREW	2.6mm x 4mm(x2)	
136	QYSDST2604Z	SCREW	2.6mm x 4mm	
137	QYSDST2604Z	SCREW	2.6mm x 4mm	
138	FSKS3017-002	LED HOLDER		
139	LV40848-008A	SPACER		

CD mechanism assembly and parts list

Block No. M B M M

TN-2001-1013

Grease
★ TNG-87
※ GP-501MK
● CFD-005Z
▲ GP-501A



CD mechanism

Block No. [M][B][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	30320101T	FRAME		
2	30320102T	TOP COVER		
3	30320115T	DANPER F	(x2)	
4	30320116T	DANPER R		
11	303205505T	CHASSIS RIVET		
12	303205503T	CHANGE P. RVT A		
13	303205301T	CLAMPER ASSY		
14	303205304T	SPINDLE MOTOR A		
15	30320502T	CLAMPER ARM		
16	30320503T	CHANGE GEAR SPG		
17	30320505T	CHANGE GEAR 2		
18	30320506T	FEED GEAR		
19	30320507T	FEED RACK		
20	30320509T	CHANGE LOCK RAR		
21	30320510T	FEED SW HOLDER		
22	30320511T	PU SHAFT HOLDER		
23	30320513T	CLAMPER SUB SPG		
24	30320514T	FD SUB HOLDER		
25	30320518T	TOP PLATE		
26	30320519T	SELECT LOCK ARM		
27	30320520T	TRIGGER ARM		
28	30320521T	SLIDE HOOK		
29	30320522T	PU SHAFT		
30	30320525T	CLAMPER ARM SPG		
31	30320526T	SELECT L ARM SP		
32	30320538T	SUSPENSION SP R	(x2)	
33	30320529T	SELECT ARM R		
34	30320530T	LINK PLATE		
35	30320531T	LINK PLATE SPG		
36	30320523T	CUSHION F		
37	30320524T	CUSHION R	(x2)	
38	30320539T	SUSPENSION SP L	(x2)	
61	69011614T	PICKUP OPT-725		
62	64180406T	DET SW ESE22		
71	303210302T	CONN BOARD ASSY		
72	30321002T	MODE SW		
73	30321003T	LOAD MOTOR WIRE		
74	30321005T	MODE SW WIRE		
75	30321009T	SL WIRE		
76	30321011T	WIRE HOLDER		
77	19501403T	WIRE CLUMPER		
81	303211301T	ROLLER SHAFT AS		
82	303211501T	L GEAR PLATE RV		
83	303211302T	LOADING PLATE A		
84	303211502T	LOCK ARM RV ASS		
85	303211303T	L/F MOTOR ASSY		
86	30321101T	LOADING GEAR 1		
87	30321102T	LOADING GEAR 2		
88	30321103T	LOADING GEAR 3		
89	30321104T	LOADING GEAR 4		
90	30321105T	LOADING GEAR 5		
91	30321106T	LOADING GEAR 6		
92	30321107T	LOADING GEAR 7		
93	30321111T	ROLLER GUIDE	(x2)	
94	30321114T	ROLLER GUIDE SP	(x2)	
95	30321116T	DISC STOPPER AR		
96	30321117T	DISC ST ARM SPG		
97	30321118T	LD GEAR BRACKET		
98	30321125T	L SIDE PLATE		
99	30321131T	LOAD PLATE SPG		
100	30321133T	LDG ROLLER	(x2)	
101	18211223T	COLLAR SCREW		
111	9P0420031T	SCREW	(x6)	
112	9P0420041T	TAP.SCREW	(x2)	
113	9B0320041T	SCREW		
114	9C0117183T	SCREW	(x2)	
115	9C0120203T	SCREW		
116	9C0317503T	SCREW		
121	9W0130170T	PW 3.5X8X0.3		
122	9W0513060T	HL WASHER		
123	9W0710070T	L WASHER		
124	9E0100152T	E RING		
125	9W0113020T	PW 2.1X4X0.13		

Electrical parts list

Main board

Block No. [0][1][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC51	SAA6579T-X	IC		
IC101	AK7740VT	IC		
IC131	NJM4565V-X	IC		
IC151	TDA7404D-X	IC		
IC152	BU4066BCFV-X	IC		
IC171	BA3220FV-X	IC		
IC231	NJM4565V-X	IC		
IC251	TDA7404D-X	IC		
IC252	BU4066BCFV-X	IC		
IC271	BA3220FV-X	IC		
⚠ IC301	TDA7560-8U	IC		
IC331	NJM4565V-X	IC		
IC351	NJM4565V-X	IC		
IC352	BU4066BCFV-X	IC		
IC431	NJM4565V-X	IC		
IC701	UPD784217AGC217	IC		
IC702	BD4833FVE-W	IC		
IC703	BR24L32F-W-X	IC(EEPROM)		
⚠ IC911	HA13166	IC		
IC931	NJM2360AM-X	IC		
IC941	HD74HCT126T-X	IC		
IC981	BA6956AN	IC		
Q1	2SD601A/QR/-X	TRANSISTOR		
Q2	2SD601A/QR/-X	TRANSISTOR		
Q21	2SB815/7/-X	TRANSISTOR		
Q22	2SB815/7/-X	TRANSISTOR		
Q23	UN2211-X	TRANSISTOR		
Q31	2SC2412K/RS/-X	TRANSISTOR		
Q32	2SC2412K/RS/-X	TRANSISTOR		
Q41	2SD601A/QR/-X	TRANSISTOR		
Q42	UN2111-X	TRANSISTOR		
Q43	UN2111-X	TRANSISTOR		
Q44	UN2111-X	TRANSISTOR		
Q45	UN2211-X	TRANSISTOR		
Q101	UN2211-X	TRANSISTOR		
Q102	2SB815/7/-X	TRANSISTOR		
Q103	UN2211-X	TRANSISTOR		
Q104	UN2211-X	TRANSISTOR		
Q105	UN2211-X	TRANSISTOR		
Q151	UN2211-X	TRANSISTOR		
Q152	UN2211-X	TRANSISTOR		
Q301	UN2211-X	TRANSISTOR		
Q302	2SD601A/QR/-X	TRANSISTOR		
Q321	2SD1048/6-7/-X	TRANSISTOR		
Q322	2SD1048/6-7/-X	TRANSISTOR		
Q351	UN2211-X	TRANSISTOR		
Q352	UN2211-X	TRANSISTOR		
Q353	2SD1048/6-7/-X	TRANSISTOR		
Q381	2SD601A/QR/-X	TRANSISTOR		
Q421	2SD1048/6-7/-X	TRANSISTOR		
Q422	2SD1048/6-7/-X	TRANSISTOR		
Q701	UN2213-X	DIGI TRANSISTOR		
Q911	UN2111-X	TRANSISTOR		
Q912	UN2211-X	TRANSISTOR		
Q913	2SB709A/QR/-X	TRANSISTOR		
Q914	2SD601A/QR/-X	TRANSISTOR		
Q915	UN2211-X	TRANSISTOR		
Q961	UN2211-X	TRANSISTOR		
Q971	UN2111-X	TRANSISTOR		
Q972	UN2111-X	TRANSISTOR		
Q981	UN2211-X	TRANSISTOR		
Q982	UN2211-X	TRANSISTOR		
Q983	UN2211-X	TRANSISTOR		
Q984	UN2211-X	TRANSISTOR		
Q985	UN2213-X	DIGI TRANSISTOR		
Q986	UN2211-X	TRANSISTOR		
Q991	UN2214-X	TRANSISTOR		
Q992	UN2211-X	TRANSISTOR		
D1	1SS355-X	SI DIODE		
D2	1SS355-X	SI DIODE		
D21	MA152WK-X	SI DIODE		
D301	1SS355-X	SI DIODE		
D311	RB160M-30-X	SB DIODE		
D312	RB160M-30-X	SB DIODE		
D313	RB160M-30-X	SB DIODE		
D314	RB160M-30-X	SB DIODE		
D321	1SS355-X	SI DIODE		
D322	1SS355-X	SI DIODE		
D331	UDZS5.1B-X	Z DIODE		
D352	MA152WK-X	SI DIODE		
D353	UDZS5.1B-X	Z DIODE		
D381	1SS355-X	SI DIODE		
D382	1SS355-X	SI DIODE		
D411	RB160M-30-X	SB DIODE		
D412	RB160M-30-X	SB DIODE		
D413	RB160M-30-X	SB DIODE		
D414	RB160M-30-X	SB DIODE		
D421	1SS355-X	SI DIODE		
D422	1SS355-X	SI DIODE		
D431	UDZS5.1B-X	Z DIODE		
D701	1SS355-X	SI DIODE		
D702	UDZS6.2B-X	Z DIODE		
⚠ D901	1N5401-F64	DIODE		
D911	1SS355-X	SI DIODE		
D912	RB160M-30-X	SB DIODE		
D913	RB160M-30-X	SB DIODE		
D916	MA152WA-X	DIODE		
D931	RB160M-30-X	SB DIODE		
D932	RB160M-30-X	SB DIODE		
D971	1SS355-X	SI DIODE		
D972	UDZS11B-X	Z DIODE		
D981	UDZS4.7B-X	Z DIODE		
D982	SML-310FT/JKL/X	LED		
D983	SML-310FT/JKL/X	LED		
D991	UDZS6.2B-X	Z DIODE		
D992	UDZS6.2B-X	Z DIODE		
D993	UDZS6.2B-X	Z DIODE		
D994	UDZS6.2B-X	Z DIODE		
D995	UDZS6.2B-X	Z DIODE		
D996	UDZS6.2B-X	Z DIODE		
D997	UDZS6.2B-X	Z DIODE		
D998	UDZS6.2B-X	Z DIODE		
D999	1SS355-X	SI DIODE		
C1	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C4	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C5	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C6	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C7	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C8	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C9	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C10	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C11	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C12	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C13	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C14	QERF1HM-104Z	E CAPACITOR	0.1uF 50V M	
C15	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C16	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C31	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C32	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C33	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C34	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C35	QERF1HM-474Z	E CAPACITOR	0.47uF 50V M	
C41	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C51	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C52	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C53	NCS31HJ-561X	C CAPACITOR	560pF 50V J	
C54	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C55	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C56	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C57	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C101	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C102	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C103	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C104	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C105	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C111	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C114	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C116	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C117	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C118	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C119	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C120	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C122	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C124	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C125	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C126	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C127	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C128	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C129	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C131	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C132	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C133	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C134	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C135	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C138	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C139	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C151	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C152	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C153	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C154	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C155	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C156	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C157	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C158	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C159	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C160	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C171	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C172	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C173	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C174	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C175	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C176	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C177	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C178	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C179	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C180	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C181	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C182	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C201	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C202	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C203	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C204	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C205	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C231	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C232	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C233	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C234	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C235	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C238	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C251	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C252	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C253	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C254	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C255	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C256	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C257	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C258	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C259	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C260	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C271	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C272	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C273	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C274	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C275	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C276	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C277	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C278	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C279	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C280	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C281	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C282	QFV61HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C301	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C302	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C303	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C304	QERF1HM-474Z	E CAPACITOR	0.47uF 50V M	
C305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C306	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C307	QERF1HM-474Z	E CAPACITOR	0.47uF 50V M	
C308	QERF1HM-104Z	E CAPACITOR	0.1uF 50V M	
C309	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C311	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C312	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C313	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C314	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C321	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C322	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C325	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C326	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C333	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C334	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C335	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C336	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C337	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C351	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C352	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C353	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C354	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C355	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C356	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C357	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C358	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C359	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C360	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C361	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C362	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C363	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C364	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C381	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C382	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C383	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C384	QERF1HM-224Z	E CAPACITOR	0.22uF 50V M	
C401	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C402	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C411	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C412	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C413	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C414	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C421	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C422	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C425	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C433	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C434	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C435	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C436	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C437	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C701	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C702	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C703	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C705	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C706	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C707	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C708	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C709	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C710	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C711	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C712	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C713	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C714	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C715	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C716	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C717	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C722	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C724	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C725	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C901	QEZ0337-228	E CAPACITOR	2200uF	
C911	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C912	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C913	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C915	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C916	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C917	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C918	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C919	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C920	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C921	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C923	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C924	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C925	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C926	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C927	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C931	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C932	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C933	QERF1CM-107Z	E CAPACITOR	100uF 16V M	
C934	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C935	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C936	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C941	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C944	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C961	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C971	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C972	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C981	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C982	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C983	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C984	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C985	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C986	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C991	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C992	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R1	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R4	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R5	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R8	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R9	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R10	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R21	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R22	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R23	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R24	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R25	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R26	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R31	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R32	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R33	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R34	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R35	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R36	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R37	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R41	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R42	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R51	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R52	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R53	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R54	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R101	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R102	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R113	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R115	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R116	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R117	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R119	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R122	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R123	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R124	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R125	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R126	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R131	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R132	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R133	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R134	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R135	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R136	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R137	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R138	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R139	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R140	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R151	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R152	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R153	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R154	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R171	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R172	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R173	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R174	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R175	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R176	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R177	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R178	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R179	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R201	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R202	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R231	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R232	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R233	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R234	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R235	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R236	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R237	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R238	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R239	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R240	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R251	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R271	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R272	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R273	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R274	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R275	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R276	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R277	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R278	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R279	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R302	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R303	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	SH9101E
R305	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R306	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R321	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R322	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R323	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R324	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R325	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R326	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R327	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R328	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R329	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R333	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R334	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R335	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R336	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R337	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R338	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R339	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R340	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R351	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R352	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R353	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R354	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	SH9101E
R355	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R356	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R357	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R358	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R359	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R360	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R361	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R362	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R363	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R364	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R365	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R366	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R367	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R368	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R369	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R370	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R371	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R381	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R382	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R383	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R384	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R386	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R421	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R422	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R423	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R424	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R425	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R426	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R428	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R433	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R434	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R435	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R436	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R437	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R438	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R439	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R440	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R441	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R707	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R708	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R709	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R710	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R711	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R712	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R713	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R714	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R715	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R716	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R717	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R719	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R724	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R726	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R727	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R728	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R729	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R730	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R731	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R733	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R734	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R735	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R736	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R737	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R738	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R739	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R740	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R741	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R742	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R743	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R744	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R745	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R746	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R747	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R748	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R749	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R750	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R751	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R752	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R753	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R754	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R755	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R756	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R757	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R758	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R759	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R760	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R761	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R762	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R763	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R764	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R765	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R766	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R767	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R768	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R769	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R770	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R771	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R772	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R773	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R774	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R775	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R776	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R777	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R778	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R779	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R780	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R783	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R784	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R785	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R786	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R787	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R788	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R789	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R790	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R791	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R792	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R793	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R794	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R795	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R796	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R797	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R798	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R911	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R912	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R913	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R914	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R915	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R916	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R917	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R918	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R919	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R921	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R922	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R923	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R924	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R925	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R926	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R931	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R932	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R933	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R934	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R935	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R936	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R937	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	
R939	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R941	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R942	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R943	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R944	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R945	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R946	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R947	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R948	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R949	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R950	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R951	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R952	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R953	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R954	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R961	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R981	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R983	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R984	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R985	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R986	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R987	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R988	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R991	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R992	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R993	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R994	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R995	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
VR931	QVP0033-331Z	TRIM RESISTOR	330Ω	
L1	NQL114K-100X	COIL	10uH K	
L101	NQL114K-470X	COIL	47uH K	
L102	NQL114K-470X	COIL	47uH K	SH9101E
L701	NQL114K-470X	COIL	47uH K	
L901	QQR1198-001	CHOKE COIL		
L931	NQLZ007-151X	COIL	150uH	
L941	NQL093K-1R8X	COIL	1.8uH K	
L942	NQL093K-1R8X	COIL	1.8uH K	
L981	NQL114K-470X	COIL	47uH K	
L991	NQL114K-470X	COIL	47uH K	
BZ961	QAN0023-001Z	BUZZER		
CN321	QGA2501C1-06	CONNECTOR	W-B (1-6)	
CN322	QGA2501C1-07	CONNECTOR	W-B (1-7)	
CN701	QGF0503C1-06V	CONNECTOR	FFC/FPC (1-6)	
CN702	QGA2006C1-02	CONNECTOR	W-B (1-2)	
CN703	QGF0503F3-07X	CONNECTOR	FFC/FPC (1-7)	
CN901	QNZ0090-001	CAR CONNECTOR		
CN941	QNZ0095-001	CONNECTOR		
CN981	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN982	QGA2501F1-02	CONNECTOR	W-B (1-2)	
CN991	QGF1034C1-20X	CONNECTOR	FFC/FPC (1-20)	
J1	QAM0105-002	CAR CABLE		
PP1	QZW0010-001	STYLE PIN		
TU1	QAU0203-002	TUNER		
X51	QAX0263-001Z	CRYSTAL	4.332MHz	
X101	QAX0264-002Z	CRYSTAL	22.5792MHz	
X701	QAX0617-001Z	CRYSTAL	12.500MHz	
X702	QAX0401-001	CRYSTAL	32.768KHz	

Switch board

Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN804	QGF0503F3-07X	CONNECTOR	FFC/FPC (1-7)	
CN805	QGF1013F1-20X	CONNECTOR	FFC/FPC (1-20)	
CN811	QGZ2202L1-16	CONNECTOR	(1-16)	
S891	NSW0146-001X	DETECT SW		
S892	NSW0146-001X	DETECT SW		
S893	NSW0146-001X	DETECT SW		
S894	NSW0146-001X	DETECT SW		
S895	NSW0146-001X	DETECT SW		
S896	NSW0146-001X	DETECT SW		

Front board

Block No. [0][3][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC801	MN102H60KCJ1	IC		
IC802	IC-PST3424U-X	IC		
IC803	LH28F160BJHET93	IC		
IC804	NJU7241F33-X	IC		
IC805	RPM6938-SV4	REMOCON RCV		
Q801	UN2111-X	TRANSISTOR		
Q802	2SD601A/QR/-X	TRANSISTOR		
Q803	2SB709A/QR/-X	TRANSISTOR		
Q804	2SB709A/QR/-X	TRANSISTOR		
Q805	2SB709A/QR/-X	TRANSISTOR		
Q821	UN2211-X	TRANSISTOR		
Q822	UN2211-X	TRANSISTOR		
Q823	UN2211-X	TRANSISTOR		
Q824	UN2211-X	TRANSISTOR		
Q825	UN2211-X	TRANSISTOR		
Q826	UN2211-X	TRANSISTOR		
D801	1SS355-X	SI DIODE		
D802	1SS355-X	SI DIODE		
D803	1SS355-X	SI DIODE		
D804	1SS355-X	SI DIODE		
D805	1SS355-X	SI DIODE		
D806	UDZS6.2B-X	Z DIODE		
D807	UDZS6.2B-X	Z DIODE		
D808	UDZS6.2B-X	Z DIODE		
D809	UDZS6.2B-X	Z DIODE		
D810	UDZS6.2B-X	Z DIODE		
D811	UDZS6.2B-X	Z DIODE		
D812	UDZS6.2B-X	Z DIODE		
D813	UDZS6.2B-X	Z DIODE		
D814	UDZS6.2B-X	Z DIODE		
D821	MA152WK-X	SI DIODE		
D822	SML-310LT/MN/-X	LED		
D823	SML-310LT/MN/-X	LED		
D824	SML-310LT/MN/-X	LED		
D825	SML-310LT/MN/-X	LED		
D826	SML-310LT/MN/-X	LED		
D827	SML-310LT/MN/-X	LED		
D828	SML-310LT/MN/-X	LED		
D829	SML-310LT/MN/-X	LED		
D830	SML-310LT/MN/-X	LED		
D831	SML-310LT/MN/-X	LED		
D832	SML-310LT/MN/-X	LED		
D833	SML-310LT/MN/-X	LED		
D834	SML-310LT/MN/-X	LED		
D835	SML-310LT/MN/-X	LED		
D836	SML-310LT/MN/-X	LED		
D837	SML-310LT/MN/-X	LED		
D838	SML310BAT/JKL-X	LED		
D839	SML310BAT/JKL-X	LED		
D840	NSPW300BS/BRS/	LED	WHITE	
D841	NSPW300BS/BRS/	LED	WHITE	
D842	NSPW300BS/BRS/	LED	WHITE	
C801	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C802	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C803	NDC31HJ-300X	C CAPACITOR	30pF 50V J	
C804	NDC31HJ-300X	C CAPACITOR	30pF 50V J	
C805	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C806	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C807	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C808	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C809	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
C810	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C811	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C812	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C813	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C814	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C815	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C816	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C817	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C818	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C819	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C820	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C821	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C822	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C823	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C824	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C825	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C826	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C827	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C828	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C829	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C830	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C831	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
R451	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R452	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R453	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R454	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R455	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R456	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R457	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R458	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R459	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R460	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R461	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R462	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R463	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R464	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R471	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R472	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R473	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R474	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R475	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R476	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R477	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R478	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R479	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R480	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R481	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R482	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R483	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R484	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R485	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R486	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R487	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R488	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R489	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R490	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R491	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R492	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R493	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R494	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R495	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R496	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R801	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R802	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R803	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R804	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R805	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R806	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R807	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R808	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R809	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R810	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R811	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R812	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	SH9101E
R813	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R814	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R815	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R816	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R817	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R818	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R819	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R820	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R821	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R822	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R823	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R824	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R825	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R826	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R827	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R828	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R829	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R830	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R831	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R832	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R833	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R834	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R835	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R836	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R837	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R838	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R839	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R840	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R841	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R842	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R843	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R844	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R845	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R846	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R847	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R848	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R849	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R850	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R852	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R853	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R854	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R855	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R856	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R857	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R858	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R859	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R860	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R861	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R862	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R863	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R864	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R865	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R866	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R867	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R868	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R869	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R870	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R871	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R872	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R873	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R874	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R875	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R876	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R877	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R878	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R879	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R891	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R892	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R893	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R894	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R895	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R896	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R897	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R898	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R899	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
L801	NQL114K-470X	COIL	47uH K	
CN801	QGZ2202M1-16	CONNECTOR	(1-16)	
CN802	QGF0523F1-40W	CONNECTOR	FFC/FPC (1-40)	

⚠ Symbol No.	Part No.	Part Name	Description	Local
EN801	QSW1025-001	ROTARY ENCODER		
R812	NRSA63J-680X	MG RESISTOR		SH91 01E
S801	NSW0066-001X	TACT SW		
S802	NSW0066-001X	TACT SW		
S803	NSW0066-001X	TACT SW		
S804	NSW0066-001X	TACT SW		
S805	NSW0066-001X	TACT SW		
S806	NSW0066-001X	TACT SW		
S807	NSW0066-001X	TACT SW		
S808	NSW0066-001X	TACT SW		
S809	NSW0066-001X	TACT SW		
S810	NSW0066-001X	TACT SW		
S811	NSW0066-001X	TACT SW		
S812	NSW0066-001X	TACT SW		
S813	NSW0066-001X	TACT SW		
S814	NSW0066-001X	TACT SW		
S815	NSW0066-001X	TACT SW		
S816	NSW0066-001X	TACT SW		
S817	NSW0066-001X	TACT SW		
TH801	NAD0022-103X	N THERMISTOR	10kΩ 10mW F	
X801	NAX0586-001X	C RESONATOR	25.000MHz	

Mecha control board

Block No. [0][4][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC501	TMP91CW12AF4RA3	IC		
IC502	BR24C01AFV-W-X	IC		
IC503	HD74HCT126T-X	IC		
IC504	NJU7241F33-X	IC		
IC571	PCM1716E-X	IC		
IC572	NJM4565V-X	IC		
IC601	TA2157FN-X	RF AMP IC		
IC621	TC94A14FA	CD LSI IC		
IC651	NJU7241F25-X	IC		
IC652	TC94A20F-008	IC		
IC681	BA5830FP-X	IC		
Q501	UN2111-X	TRANSISTOR		
Q502	UN2211-X	TRANSISTOR		
Q571	UN2111-X	TRANSISTOR		
Q572	UN2211-X	TRANSISTOR		
Q601	2SB1132/QR/-W	TRANSISTOR		
Q681	2SB1184/QR/-X	TRANSISTOR		
D501	1SS355-X	SI DIODE		
D502	1SS355-X	SI DIODE		
D503	1SS355-X	SI DIODE		
D504	1SS355-X	SI DIODE		
D505	1SS355-X	SI DIODE		
D506	RB160M-30-X	SB DIODE		
D682	1SR154-400-X	DIODE		
C501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C503	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M	
C504	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C505	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C510	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C512	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M	
C513	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C514	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C551	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C571	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C572	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C573	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C574	NEAD1CM-106X	E CAPACITOR	10uF 16V M	
C575	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C576	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C577	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C578	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C579	NEAD1CM-106X	E CAPACITOR	10uF 16V M	
C580	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C581	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C582	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C583	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C584	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
C585	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
C586	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
C587	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C588	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C589	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
C590	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M	
C591	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C592	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C593	NEAD1CM-476X	E CAPACITOR	47uF 16V M	
C594	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C595	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C596	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C597	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C598	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
C601	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C603	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M	
C604	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C605	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C606	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C607	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C610	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C611	NCS31HJ-680X	C CAPACITOR	68pF 50V J	
C612	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C613	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C614	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C616	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C621	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C622	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C623	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C624	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C625	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C626	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C627	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C628	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C629	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C630	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C631	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C632	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C633	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C634	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C635	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C636	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C637	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C638	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C639	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C640	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C641	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C642	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C643	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C644	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C645	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C646	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C651	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C652	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C653	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C655	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C657	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C659	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C660	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C661	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C662	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C663	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C664	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C665	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C666	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C667	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C668	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C669	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C671	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C672	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C673	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C682	NEAD1CM-106X	E CAPACITOR	10uF 16V M	
C683	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C684	NEAD1CM-476X	E CAPACITOR	47uF 16V M	
C689	NEAD1CM-476X	E CAPACITOR	47uF 16V M	
C690	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R504	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R505	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R507	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R508	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R509	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R510	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R512	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R513	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R514	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R515	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R517	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R518	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R519	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R522	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R524	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R525	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R526	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R527	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	SH9101E
R528	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R529	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R530	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R531	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R533	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R534	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R535	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R536	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R537	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R538	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R539	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R540	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R541	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R543	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R544	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R545	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R546	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R547	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R548	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R549	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R550	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R551	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R552	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R553	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R554	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R555	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R556	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R557	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R558	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R559	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R560	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R561	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R562	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	

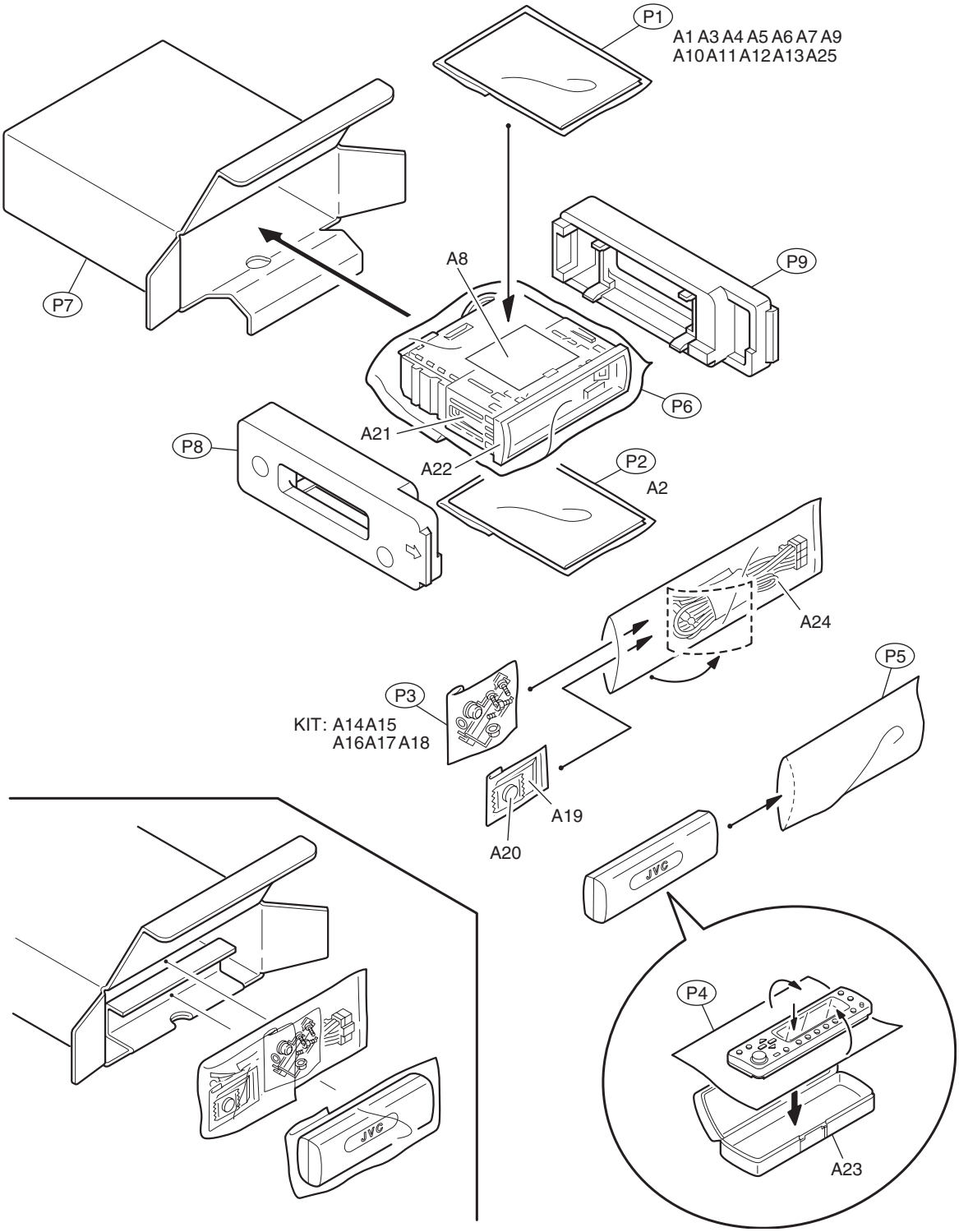
⚠ Symbol No.	Part No.	Part Name	Description	Local
R563	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R564	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R568	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R570	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R572	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R573	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R574	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R581	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R582	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R583	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R584	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R585	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R586	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R587	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R588	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R589	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R590	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R592	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R593	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R601	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R602	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R603	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R604	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R605	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R606	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R607	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R608	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R609	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R610	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R612	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R614	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R615	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R616	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R621	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R622	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R623	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R624	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R625	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R626	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R627	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R628	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R630	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R632	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R633	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R635	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R636	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R637	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R638	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R639	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R640	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R641	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R642	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R651	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R654	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R668	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R674	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R675	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R677	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R681	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R682	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R683	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R684	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R685	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R686	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R687	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R688	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R689	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R690	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R691	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
L501	NQL114K-470X	COIL	47uH K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L502	NQL114K-470X	COIL	47uH K	
L571	NQL114K-470X	COIL	47uH K	
L572	NQL114K-470X	COIL	47uH K	
L621	NQL114K-470X	COIL	47uH K	
L622	NQL114K-470X	COIL	47uH K	
L623	NQL114K-470X	COIL	47uH K	
L651	NQL114K-470X	COIL	47uH K	
L652	NQL114K-470X	COIL	47uH K	
L653	NQL114K-470X	COIL	47uH K	
CN501	QGB2027L1-22X	CONNECTOR	B-B (1-22)	
CN502	QGF0501F1-08X	CONNECTOR	FFC/FPC (1-8)	
CN601	QGF0527F2-22W	CONNECTOR	FFC/FPC (1-22)	
TH501	NAD0022-103X	N THERMISTOR	10kΩ 10mW F	
X501	NAX0385-001X	CRYSTAL	24.576MHz	
X571	NAX0375-001X	CRYSTAL	16.9344MHz	

<MEMO>

Packing materials and accessories parts list

Block No. M 3 M M



Packing and accessories

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
A 1	LVT1005-001A	INST BOOK	ENG GER FRE DUT	
A 2	LVT1005-002A	INST BOOK	RUS SPA ITA POL	SH9101E
A 2	LVT1005-003A	INST BOOK	DAN FIN SWE GRE	SH9101EX
A 3	LVT1005-004A	INST MANUAL	ENG GER FRE DUT	
A 4	LVT1005-005A	INST MANUAL	RUS SPA ITA POL	SH9101E
A 4	LVT1005-006A	INST MANUAL	DAN FIN SWE GRE	SH9101EX
A 5	LV42487-001A	CAUTION SHEET		
A 6	VND3046-001	SERIAL TICKET		
A 7	VND3050-002	IDENTITY CARD		
A 8	LV40978-001A	CAUTION SHEET		
A 9	BT-54013-5	WARRANTY CARD		
A 10	LVT1046-002A	MP3 MANUAL		
A 11	LV43462-001A	CAUTION SHEET		
A 12	LVT1044-001A	DEMO SHEET		
A 13	LVT1042-004A	IMAGE CONVERTER		
A 14	VKZ4027-202	PLUG NUT		
A 15	VKH4871-001SS	MOUNT BOLT		
A 16	VKZ4328-001	LOCK NUT		
A 17	WNS5000Z	WASHER		
A 18	FSKL4010-002	HOOK	(x2)	
A 19	RM-RK100	REMOCON		
A 20	----------	BATTERY		
A 21	FSKM2004-003	MOUNTING SLEEVE		
A 22	LV21210-001A	TRIM PLATE		
A 23	FSJB3002-00F	HARD CASE ASSY		
A 24	QAM0267-001	CAR CABLE		
A 25	LV43604-001A	CAUTION SHEET		
KIT	KDGS717K-SCREW1	SCREW PARTS KIT	A14 to A18	
P 1	FSPG4002-001	POLY BAG		
P 2	FSPG4002-001	POLY BAG		
P 3	QPA00801205	POLY BAG	8cm x 12cm	
P 4	FSYH4036-068	SHEET		
P 5	QPA01003003	POLY BAG	10cm x 30cm	
P 6	QPC02604420P	POLY BAG	26cm x 44cm	
P 7	LV34120-003A	CARTON		
P 8	LV10839-001A	CUSHION		
P 9	LV10840-001A	CUSHION		

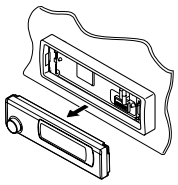
JVC

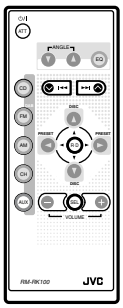
SCHEMATIC DIAGRAMS

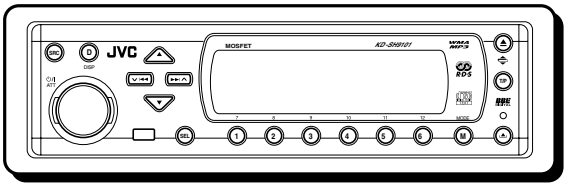
CD RECEIVER

KD-SH9101

Area Suffix
E ---------- Continental Europe
EX ---------- Central Europe







Contents

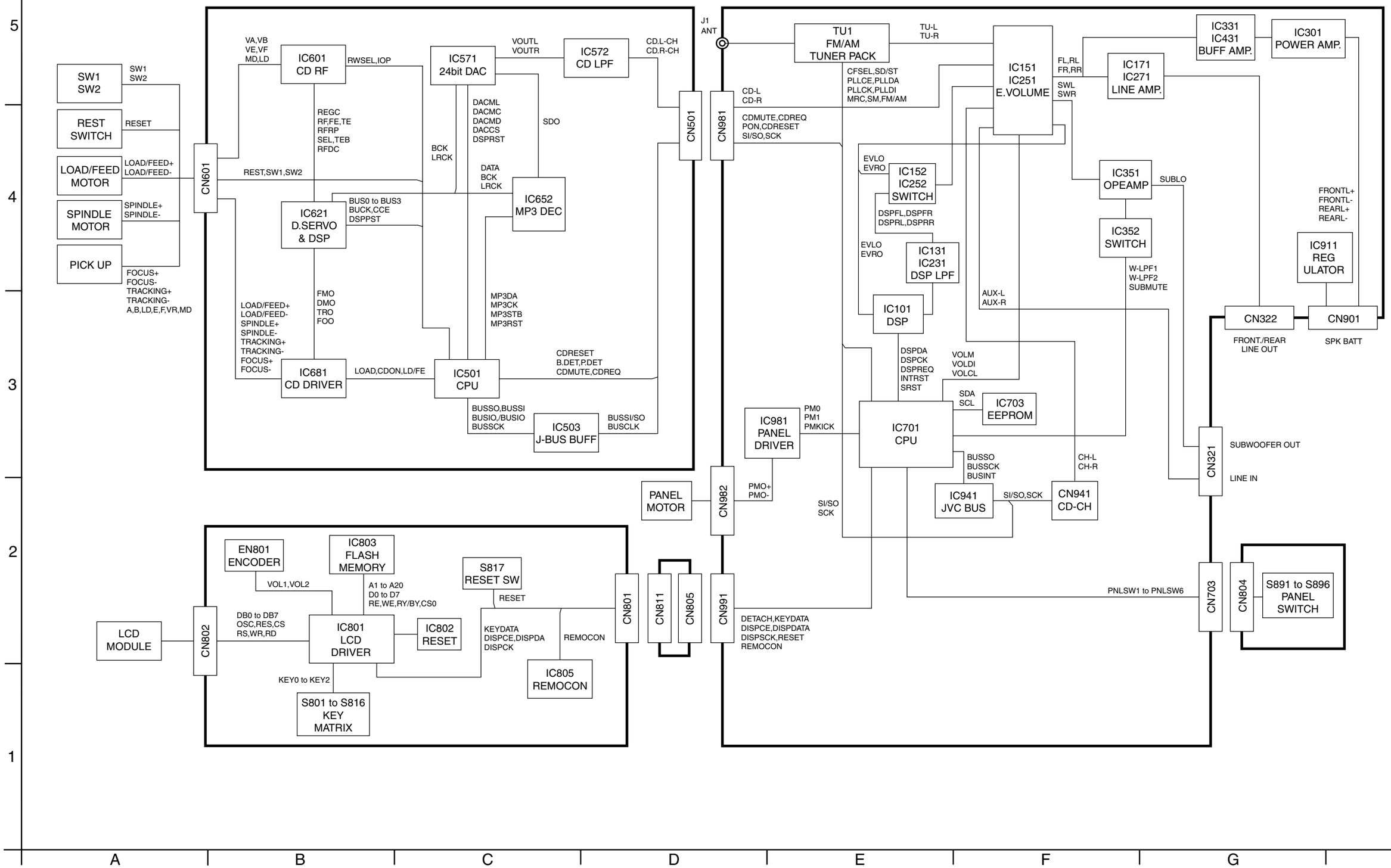
No.49841SCH
2003/05

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 preforming repair of this system.**

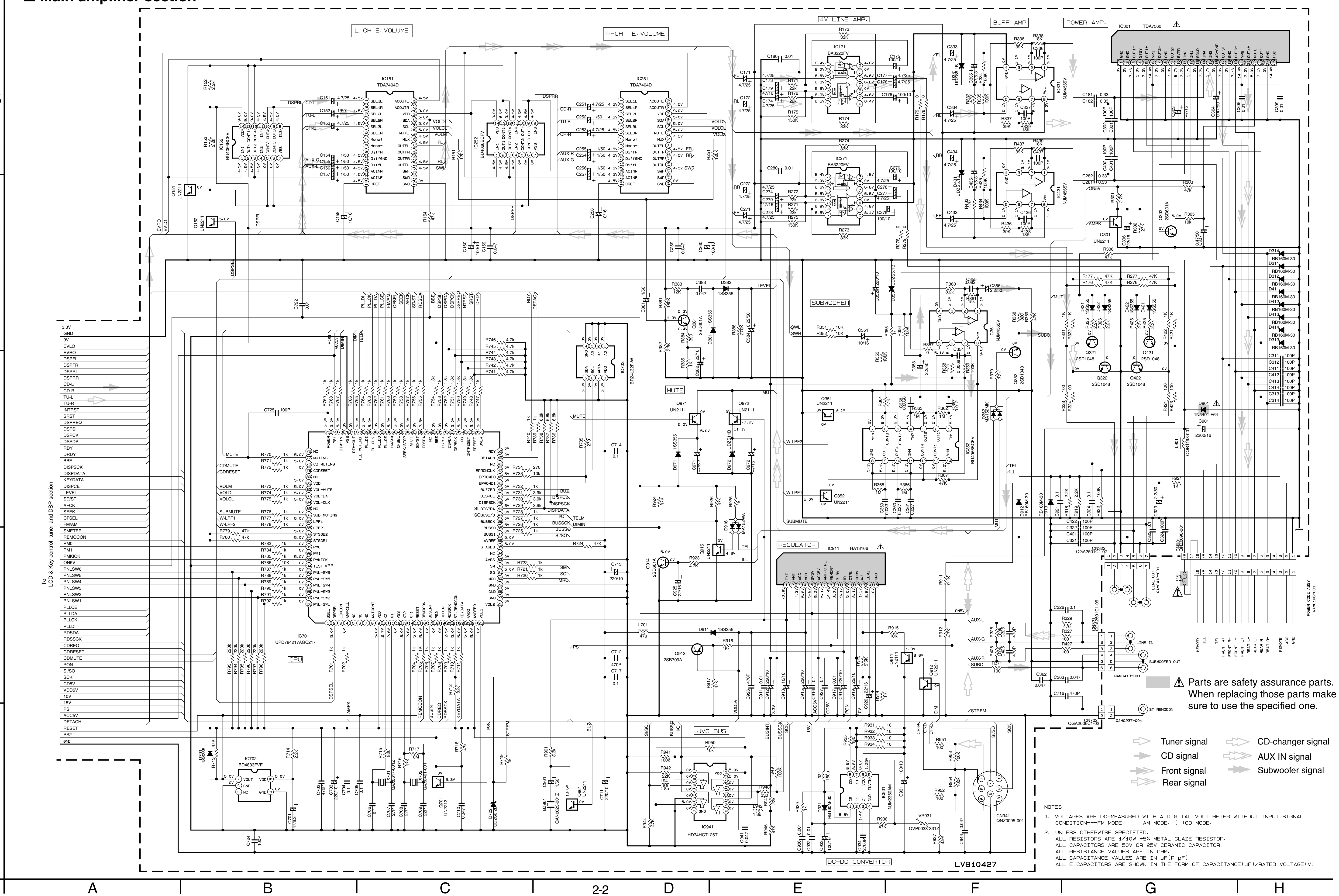
⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Block diagram



Standard schematic diagrams

■ Main amplifier section



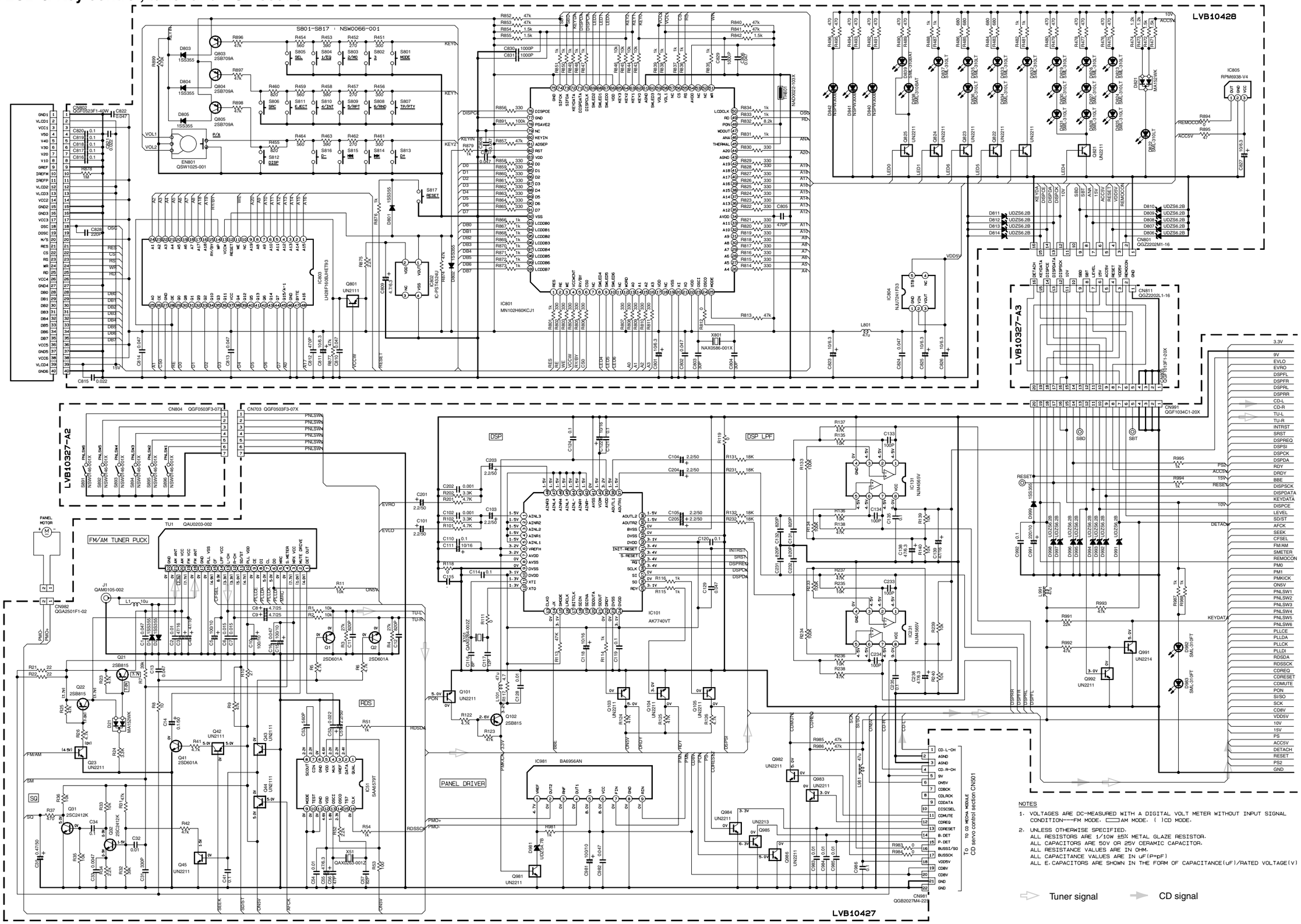
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Tuner signal
CD signal
Front signal
Rear signal
CD-changer signal
AUX IN signal
Subwoofer signal

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION---FM MODE. AM MODE. ( )CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(P=pF)
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

■ LCD & Key control, tuner and DSP section



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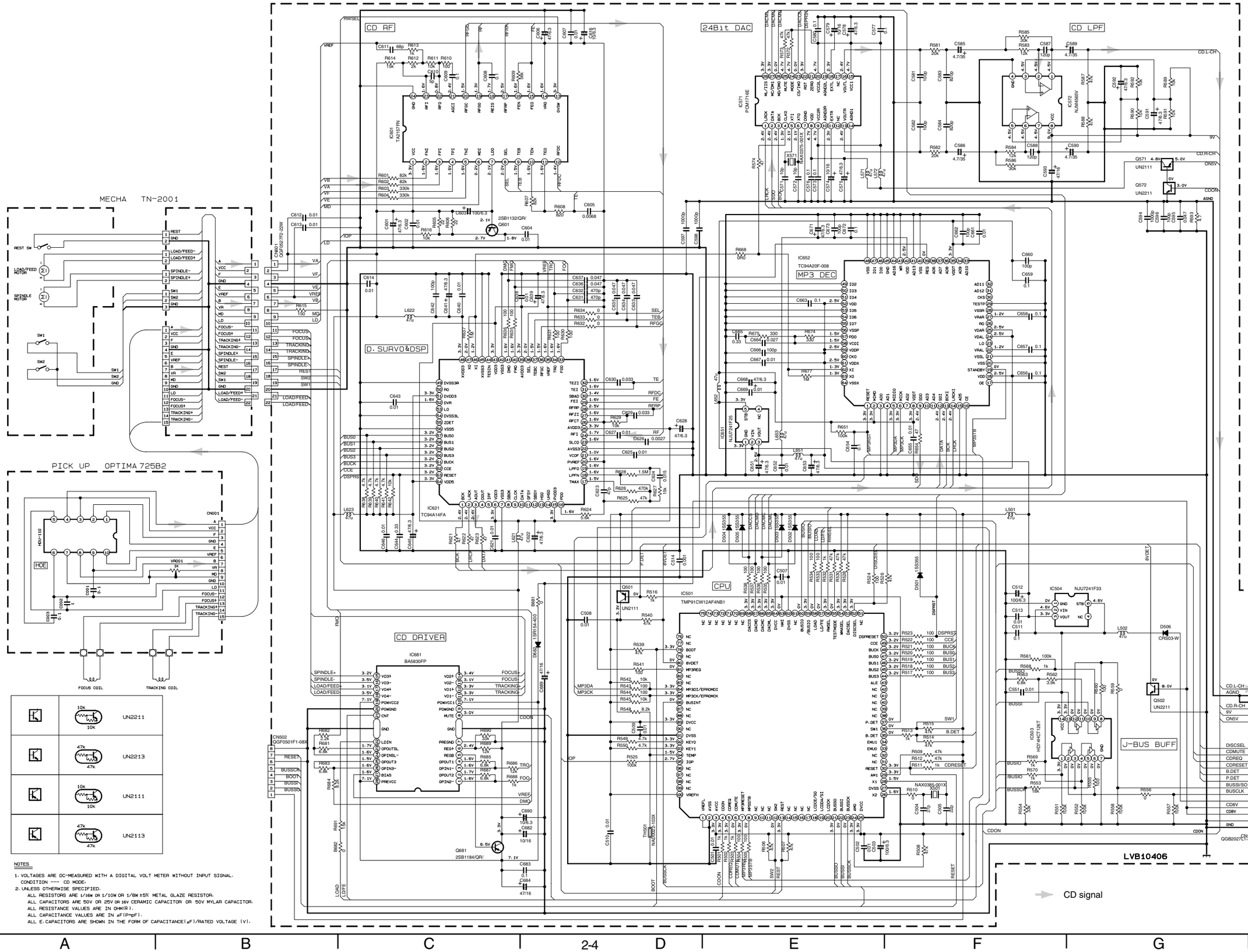
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

■ CD servo control section

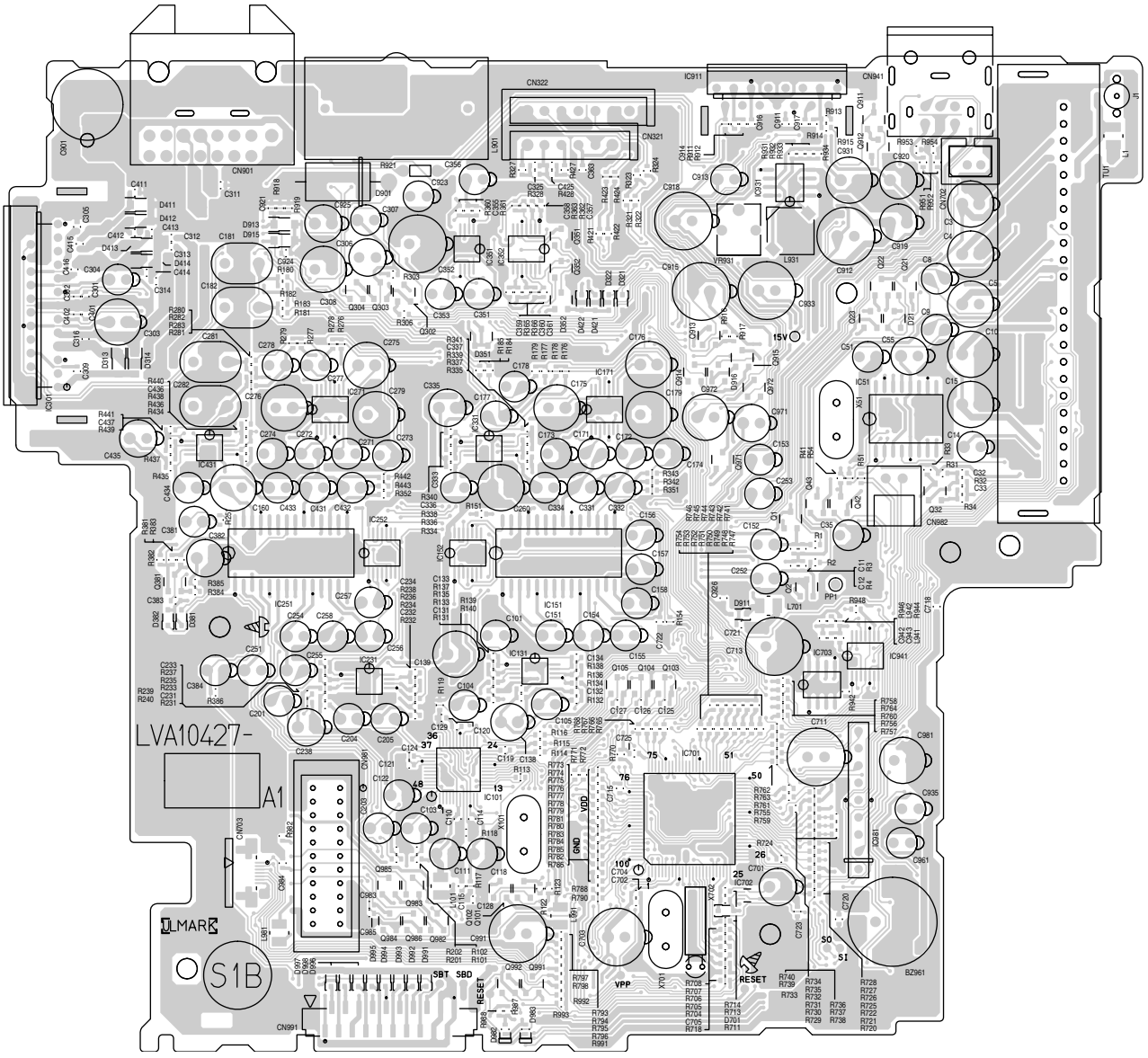


	10k / 10k	UN2211
	47k / 47k	UN2213
	10k / 10k	UN2111
	47k / 47k	UN2113

Printed circuit boards

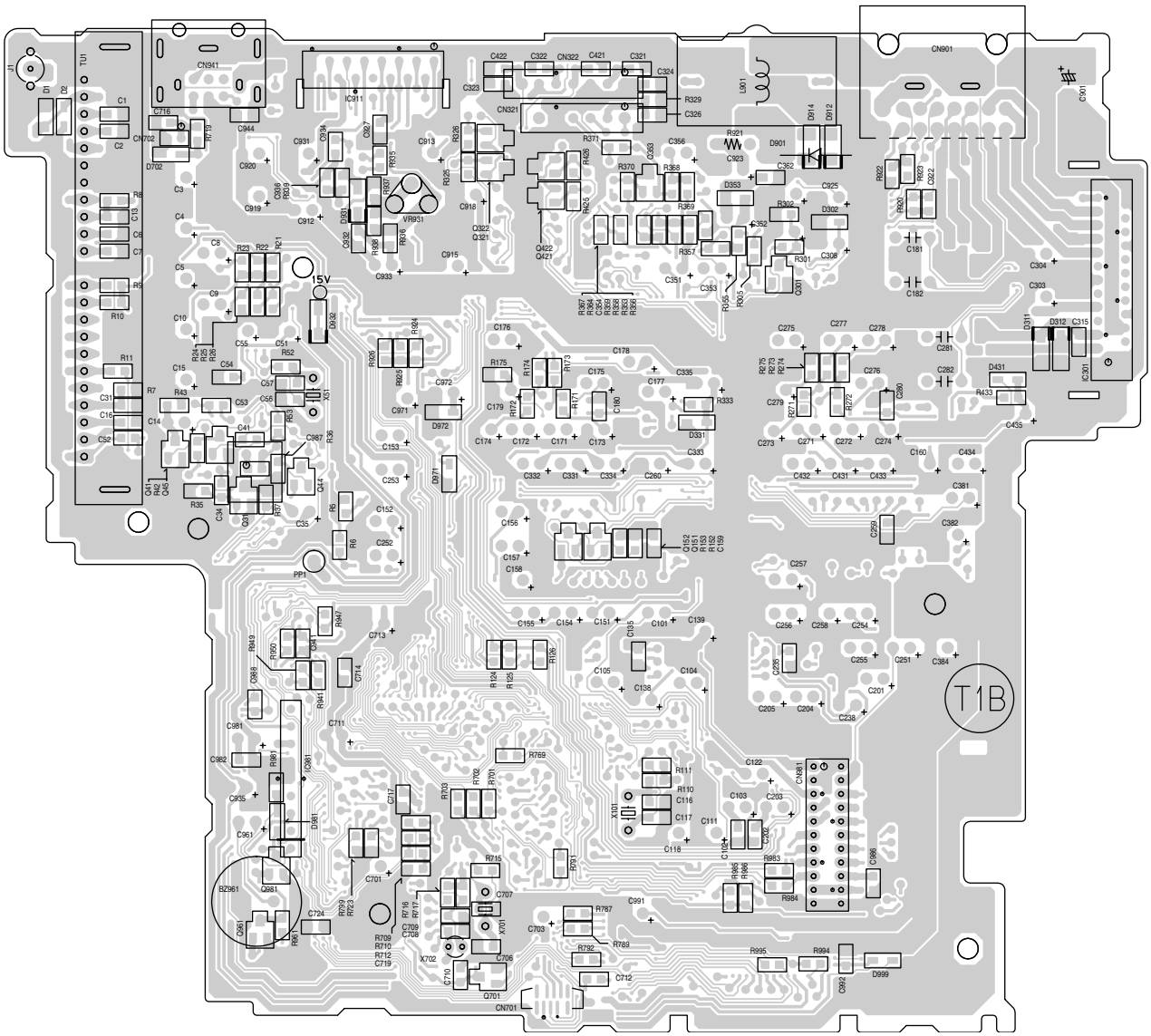
■ Main board

Forward side



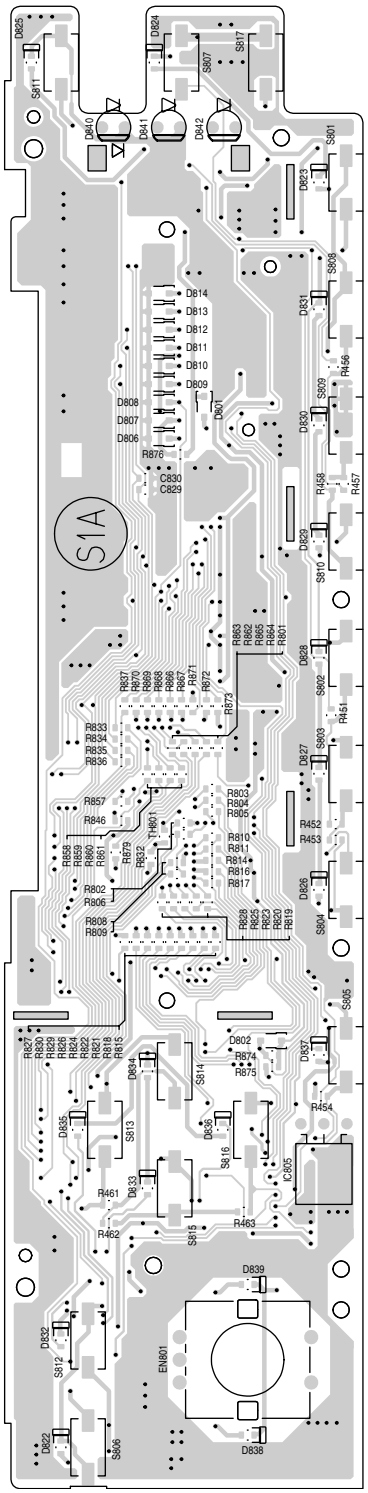
■ Main board

Reverse side

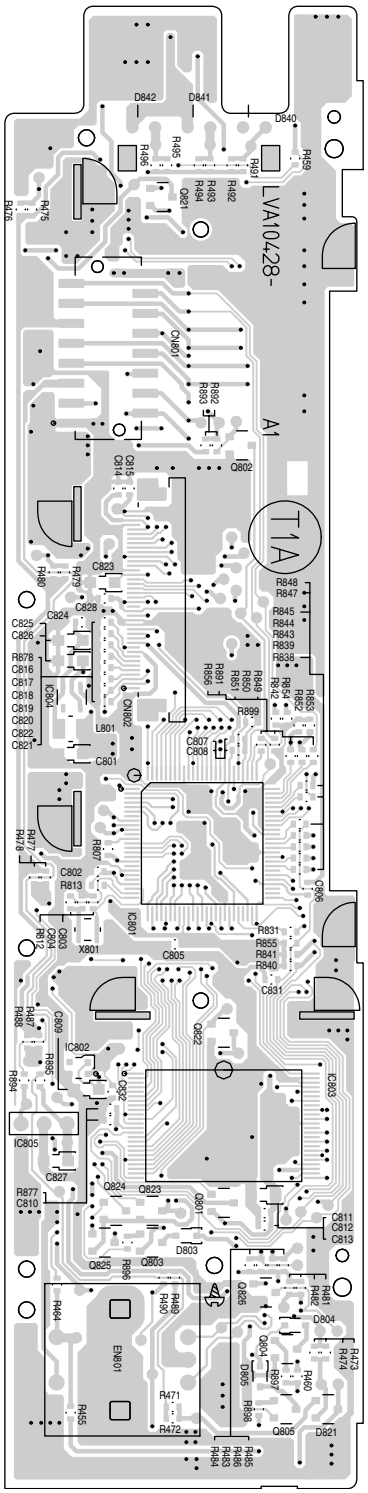


■ Front board

Forward side

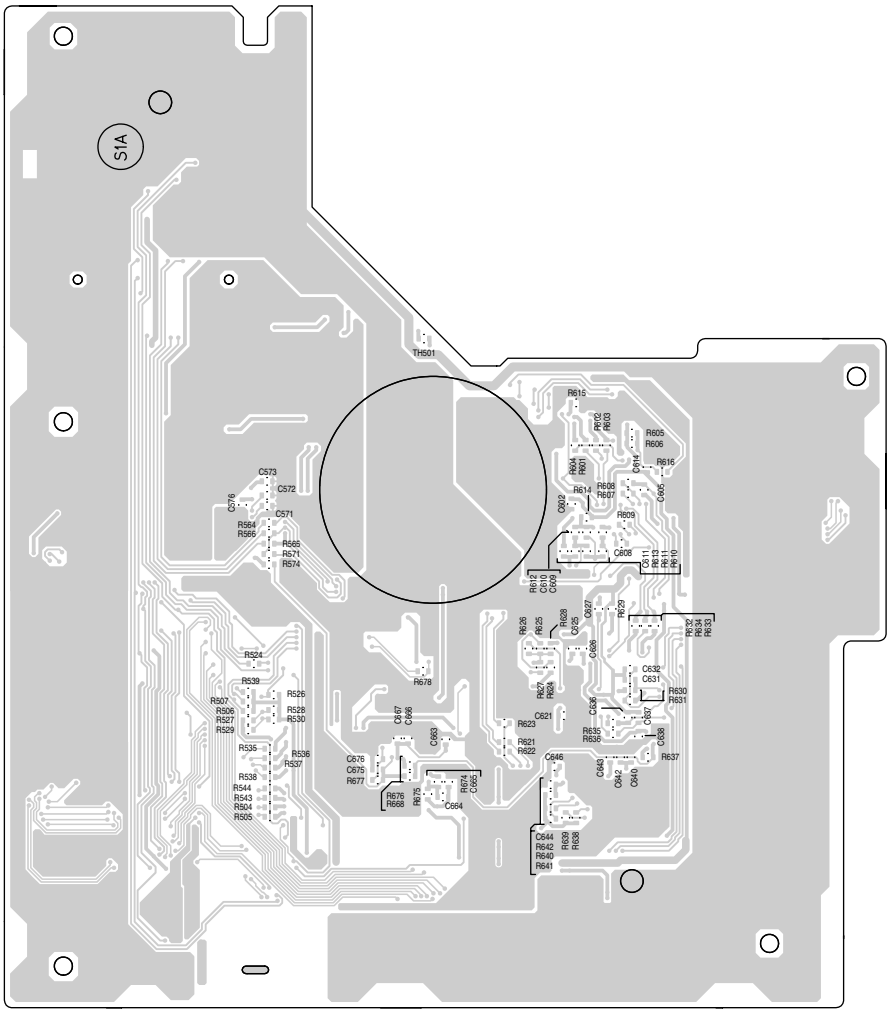


Reverse side



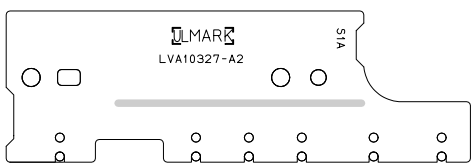
■ Mecha control board

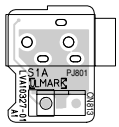
Forward side

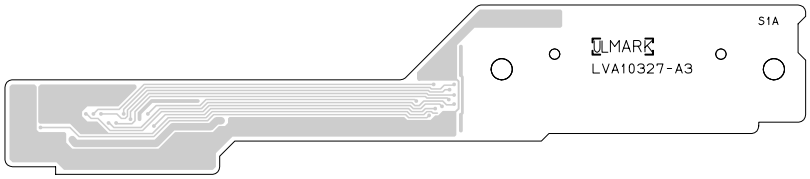


■ Switch board

Forward side

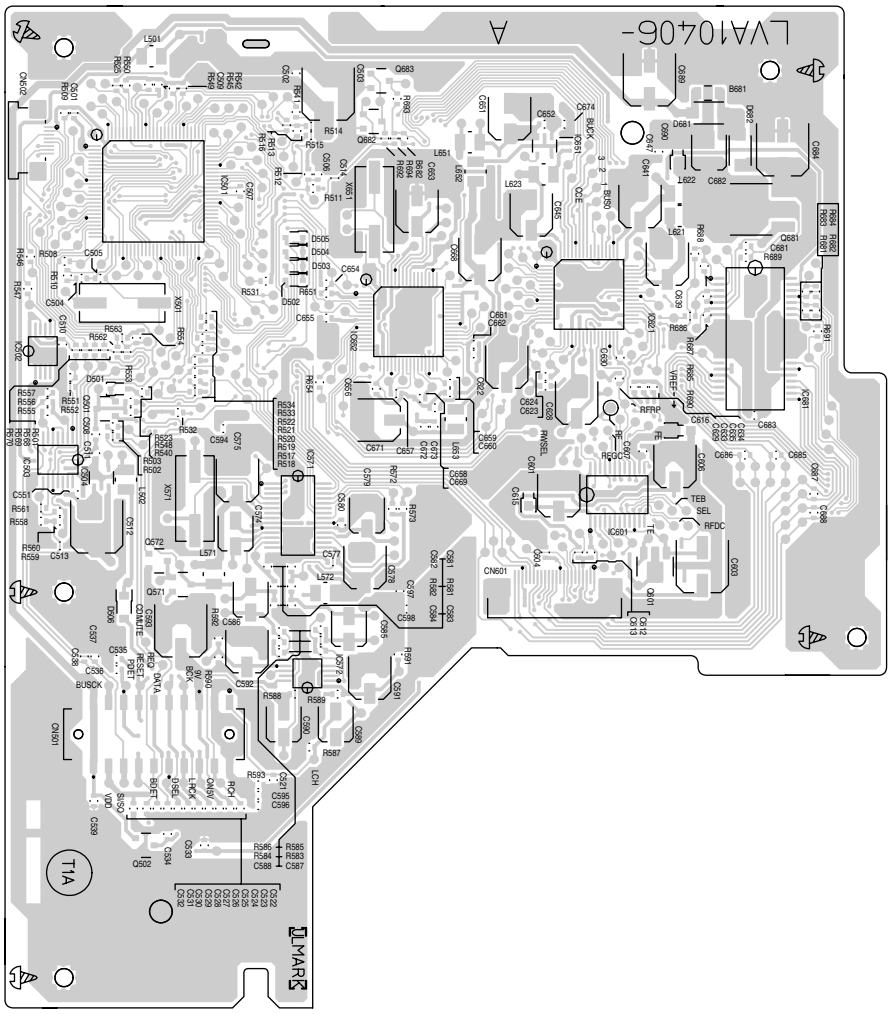






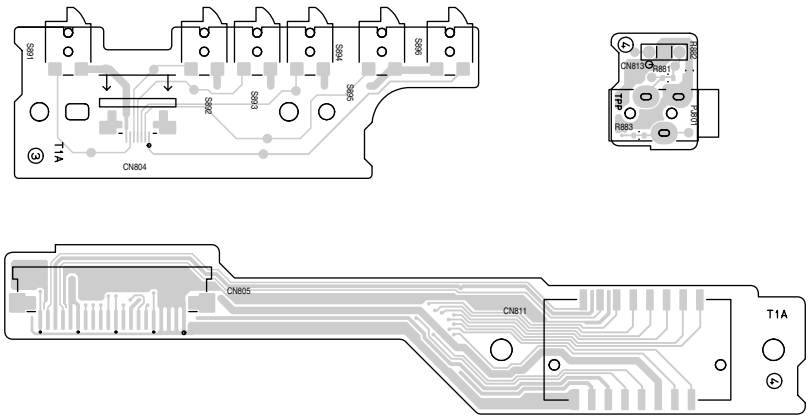
■ Mecha control board

Reverse side



■ Switch board

Reverse side



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