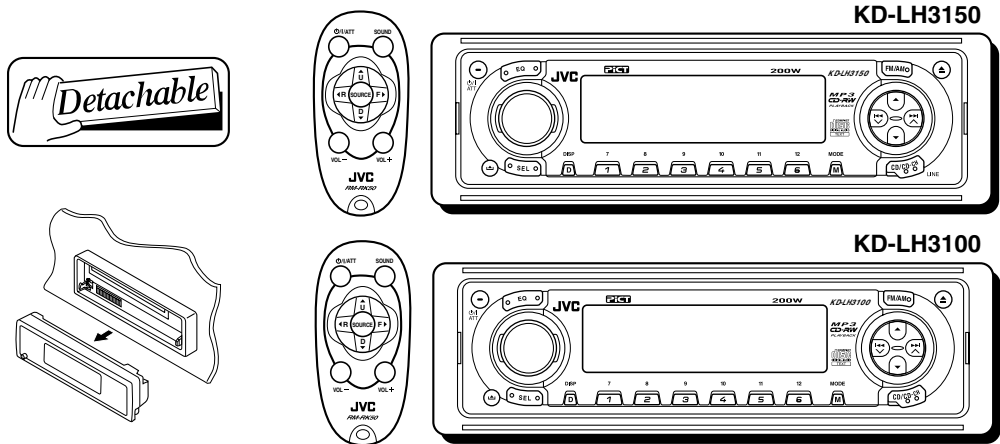


JVC

SCHEMATIC DIAGRAMS

CD RECEIVER

KD-LH3150, KD-LH3100



KD-LH3150	
Area Suffix	
J	U.S.A.
C	CANADA


	KD-LH3150J	KD-LH3150C	KD-LH3100J
ARSENAL rogo	○	×	×
LINE in	○	○	×
Line output level	4 V	4 V	2 V
WARRANTY	2 YEAR	1 YEAR	1 YEAR

KD-LH3100	
Area Suffix	
J	U.S.A.

Contents

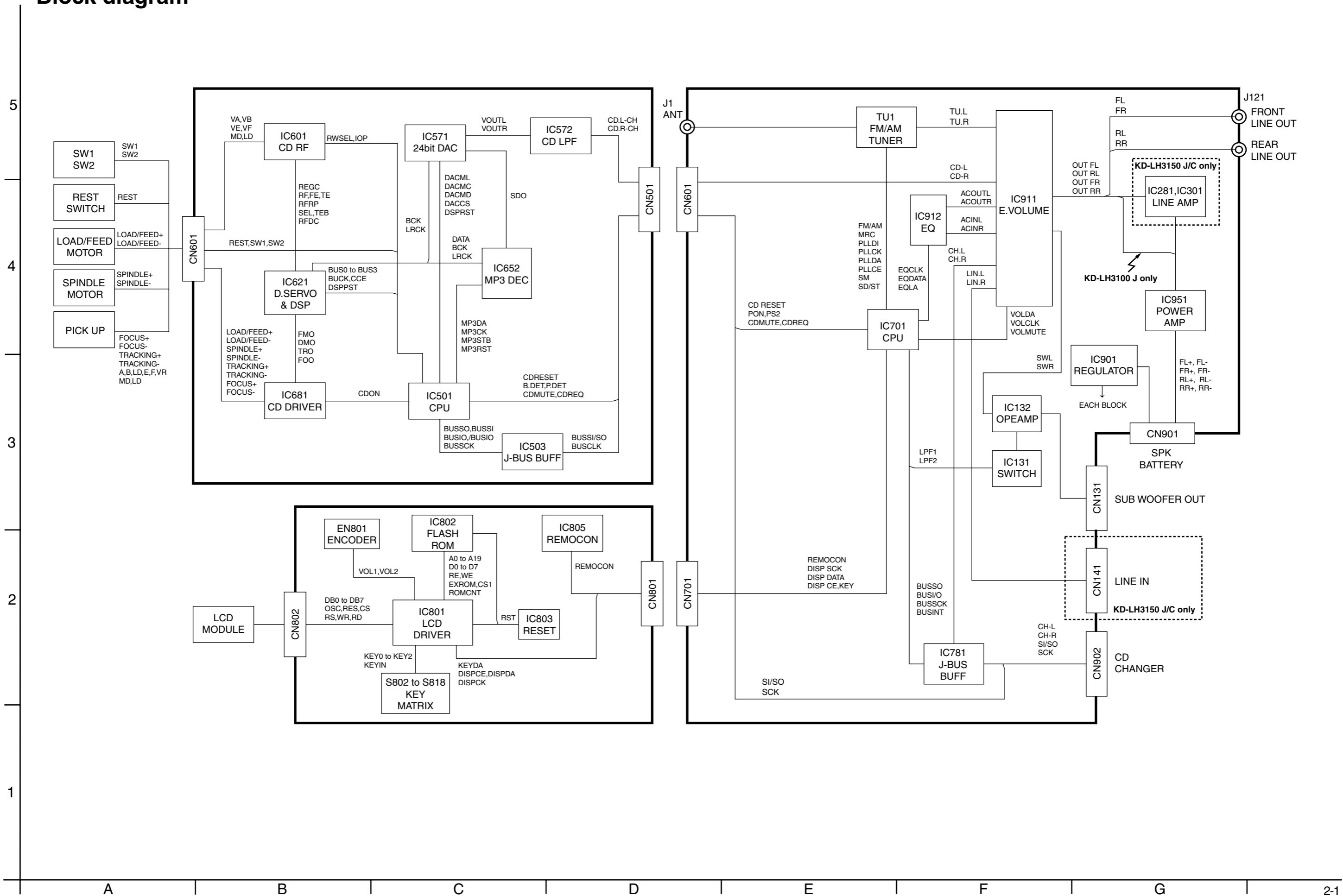
Block diagram 2-1
 Standard schematic diagrams 2-2
 Printed circuit boards 2-5,6

Safety precaution

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

 **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

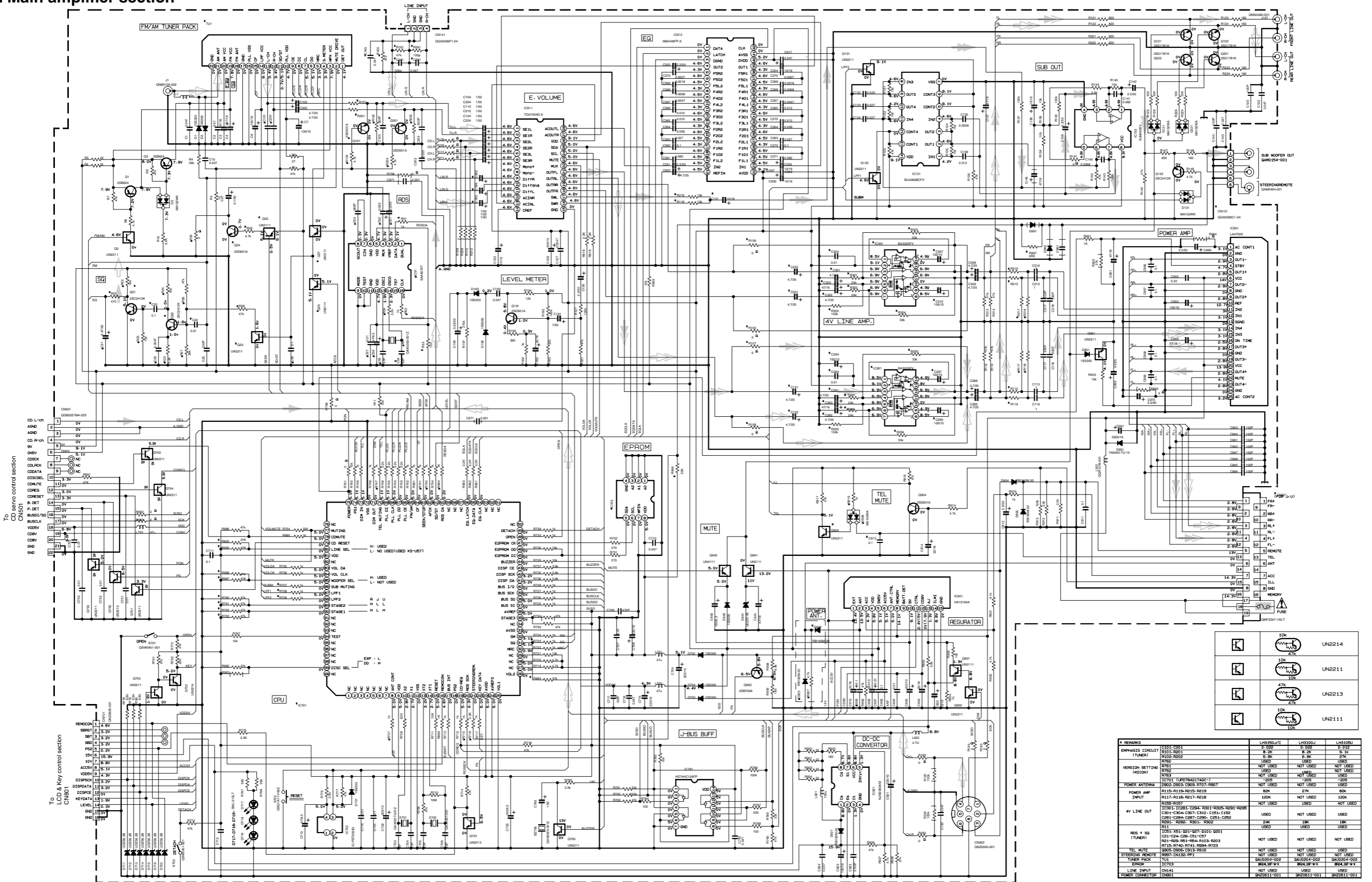
5

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3

2

1



To CD servo control section
CN501

CD-L-CH
AGND
CD-R-CH
RW
CDCLK
CDATA
DISCSEL
CDMUTE
COREP
CORESET
B-DET
P-DET
BUS1/50
VDD1
VDD2
VDD3
VDD4
VDD5
VDD6
VDD7
VDD8
VDD9
VDD10
VDD11
VDD12
VDD13
VDD14
VDD15
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VDD93
VDD94
VDD95
VDD96
VDD97
VDD98
VDD99
VDD100

To LCD & key control section
CN801

RENCON1
SERST
S81
S82
S83
S84
S85
S86
S87
S88
S89
S90
S91
S92
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S94
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S196
S197
S198
S199
S200

NOTES: 1. VOLTAGES ARE TO BE MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
2. CONNECTIONS IN PARENTHESIS ARE NOT USED.
3. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/8W 5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 50V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL CAPACITANCE VALUES ARE IN PICO (pF).
ALL CAPACITANCE VALUES ARE SHOWN IN THE FORM OF CAPACITANCE/(RATED VOLTAGE).
MF - METALLIZED FILM CAPACITOR.
4. COMPONENTS IN IT INDICATE NOT USED.



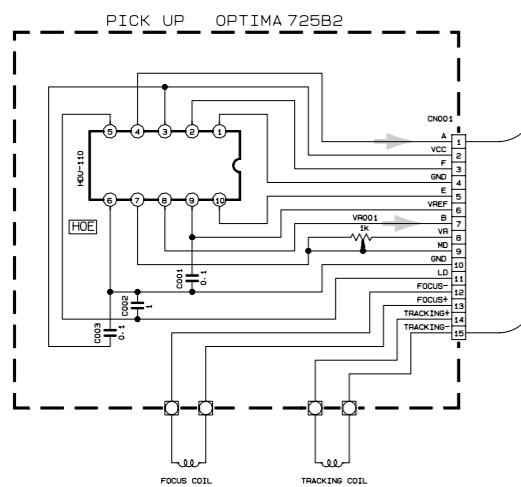
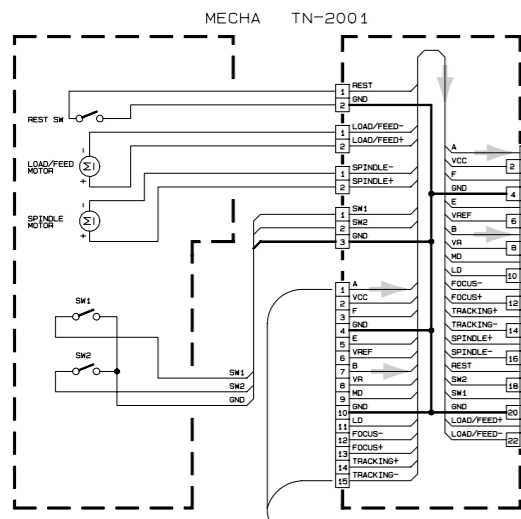
10K	UN214
10K	UN211
47K	UN213
10K	UN211

REMARKS	U101-C001	U101-C002	U101-C003
EMPHASIS CIRCUIT	USED	USED	USED
1TUNER1	USED	USED	USED
VERSION SETTING	USED	USED	USED
1MCON1	USED	USED	USED
POWER ANTENNA	USED	USED	USED
POWER AMP	USED	USED	USED
4V LINE OUT	USED	USED	USED
REG + SQ	USED	USED	USED
TEL MUTE	USED	USED	USED
STEREO REMOTE	USED	USED	USED
TUNER PACK	USED	USED	USED
EPROM	USED	USED	USED
LINE INPUT	USED	USED	USED
POWER CONNECTION	USED	USED	USED

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

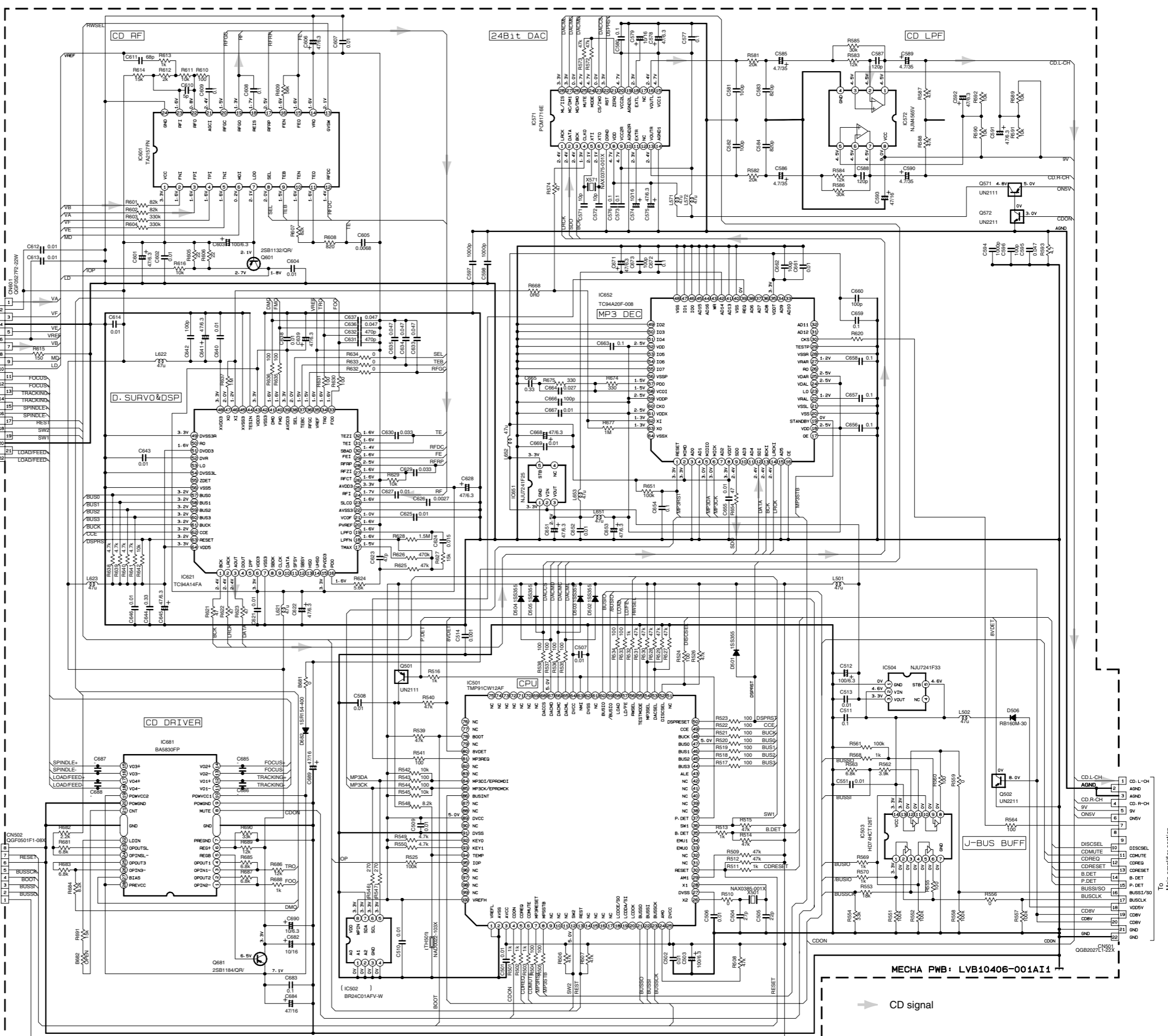
CD servo control section

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

NOTES
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION --- CD MODE.
 2. UNLESS OTHERWISE SPECIFIED.
 ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
 ALL RESISTANCE VALUES ARE IN Ω(M).
 ALL CAPACITANCE VALUES ARE IN μF(P).
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).



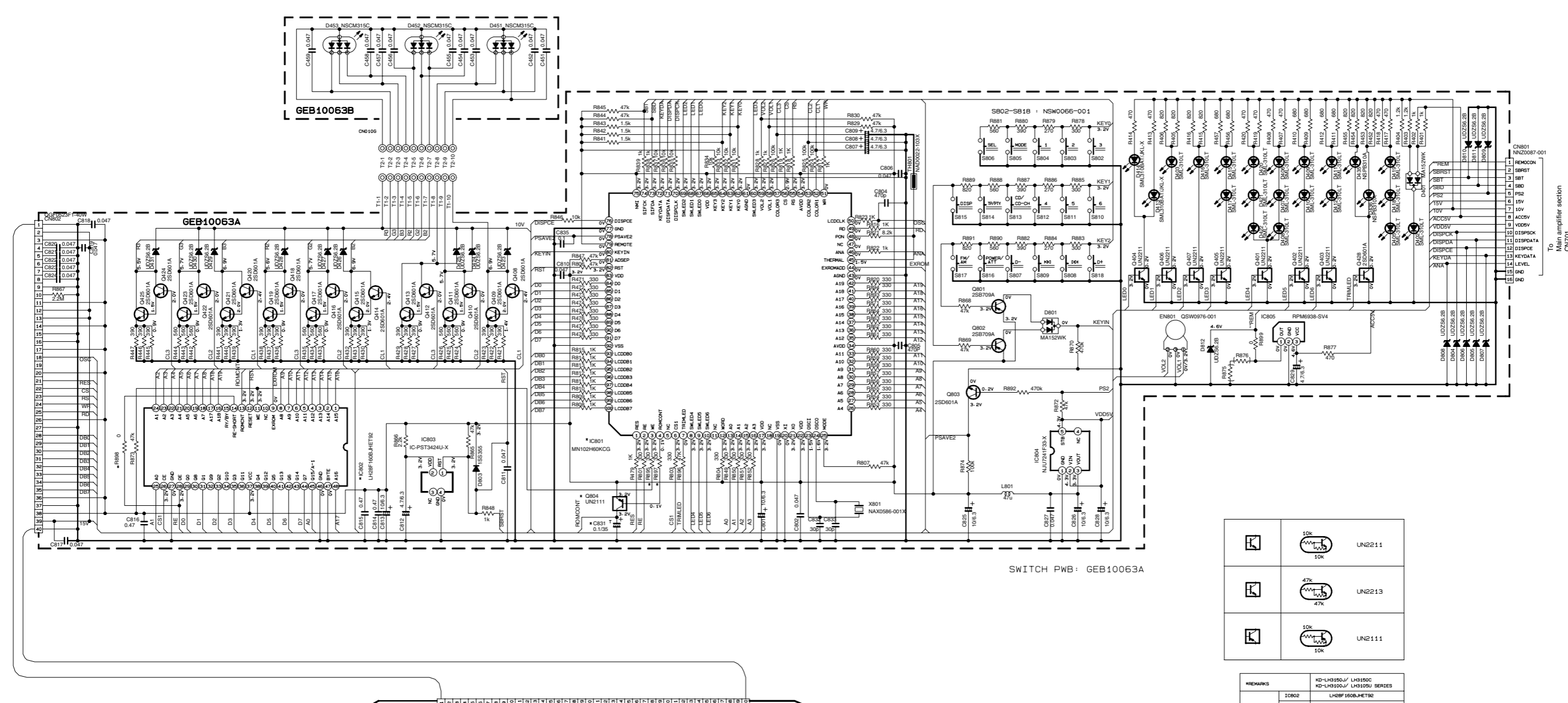
MECHA PWB: LVB10406-001A11

CD signal

Main amplifier section CN801

LCD & Key control section

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SWITCH PWB: GEB10063A

LCD MODULE
QLD0232-001

	10K	UN2211
	47K	UN2213
	10K	UN2111

REMARKS	KD-LH3150/J / LH3150C KD-LH3100/J / LH3100U SERIES
IC802	LH8F160BJHE192
Q804	USED
Q831	USED
R895	USED
R897	USED
R898	USED
IC801	MN102H60KCG

- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION - CD MODE.
 - UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN Ω(MΩ). ALL CAPACITANCE VALUES ARE IN μF(P=PF). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

A B C D E F G H

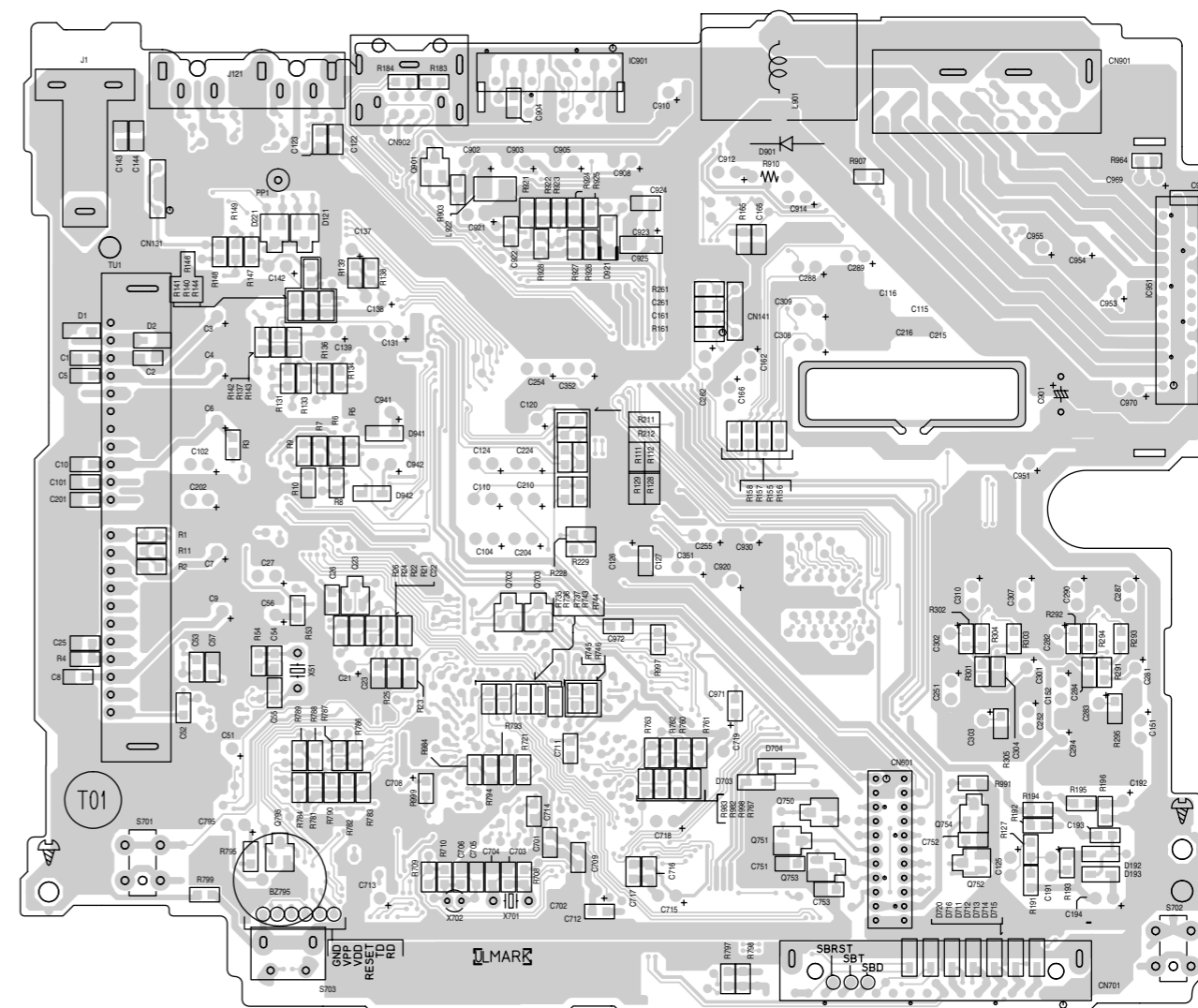
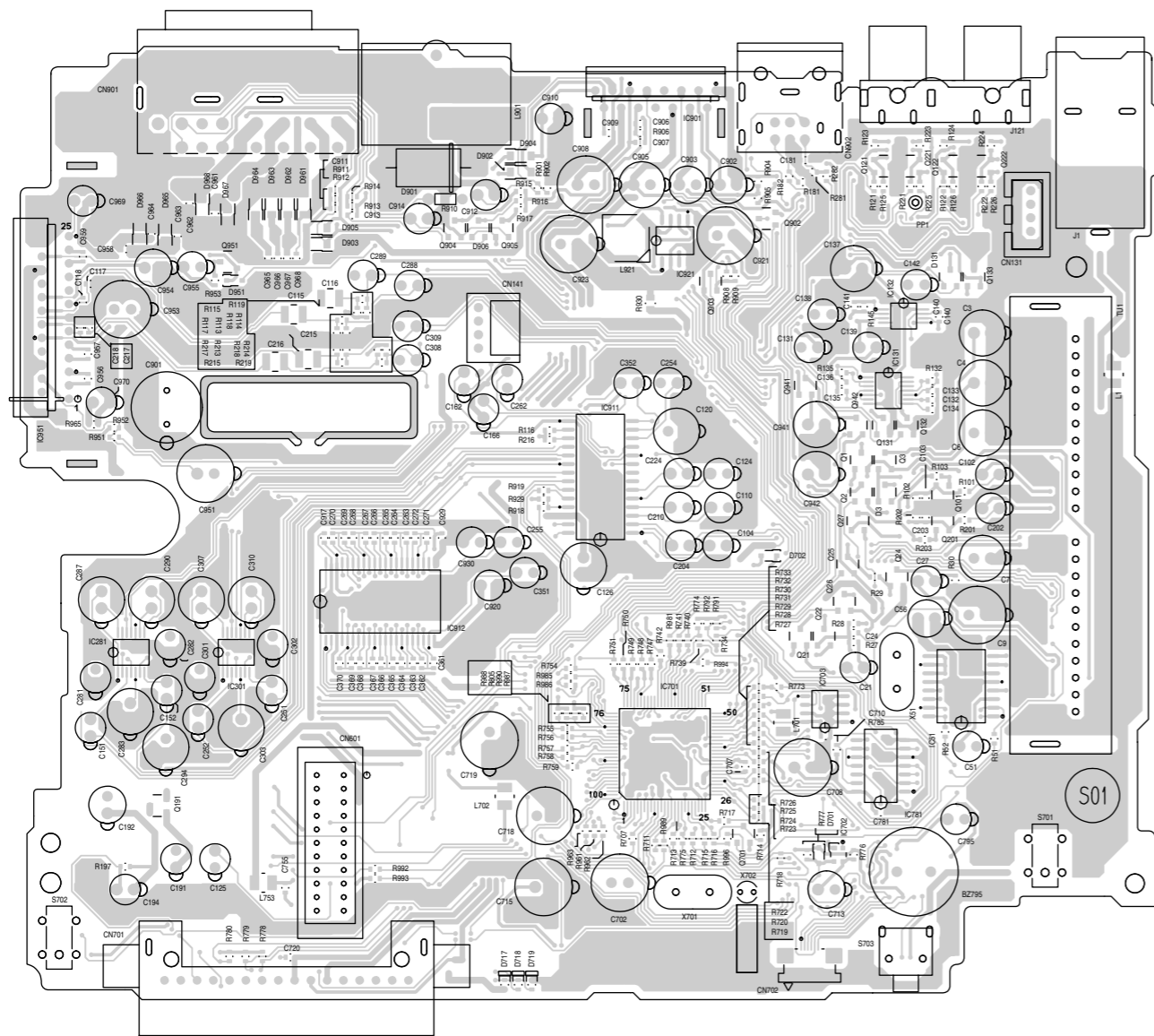
Printed circuit boards

■ Main board

■ Main board

Forward side

Reverse side

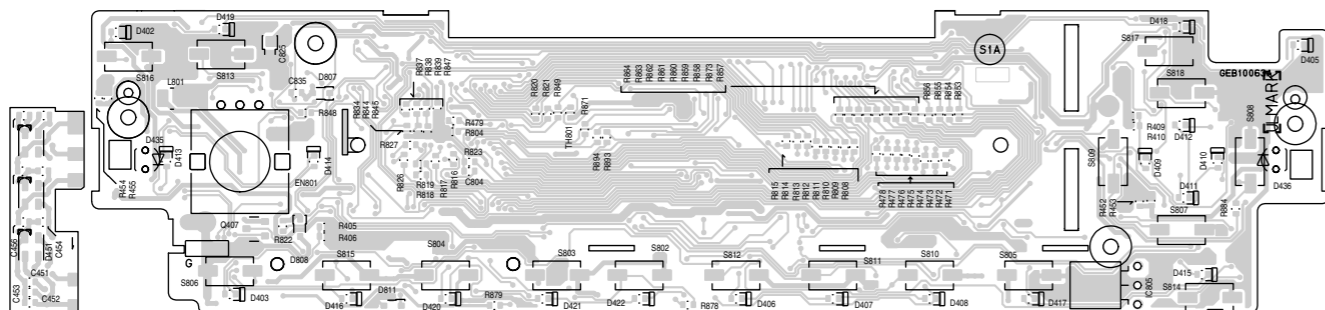


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A B C D E F G 2-5

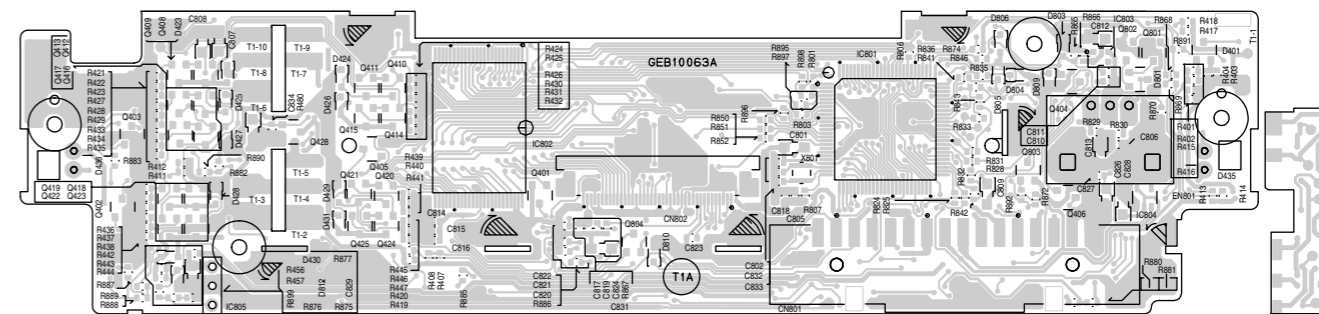
■ Front board

Forward side



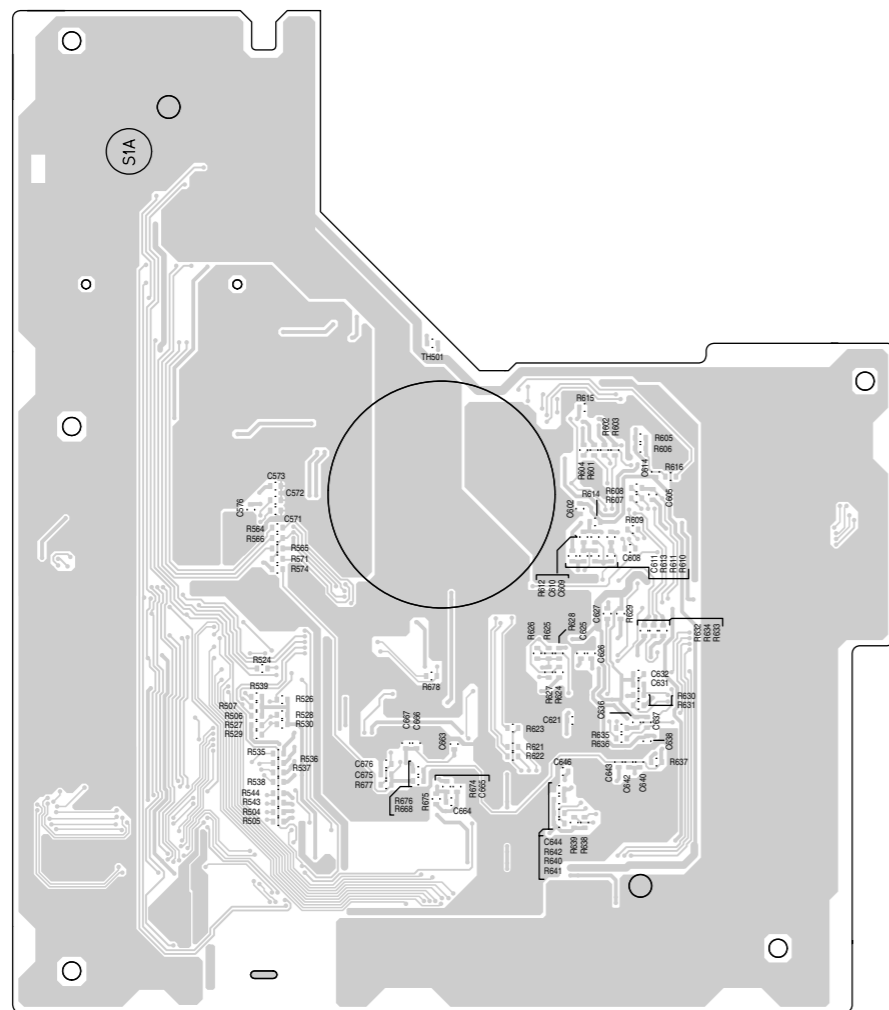
■ Front board

Reverse side



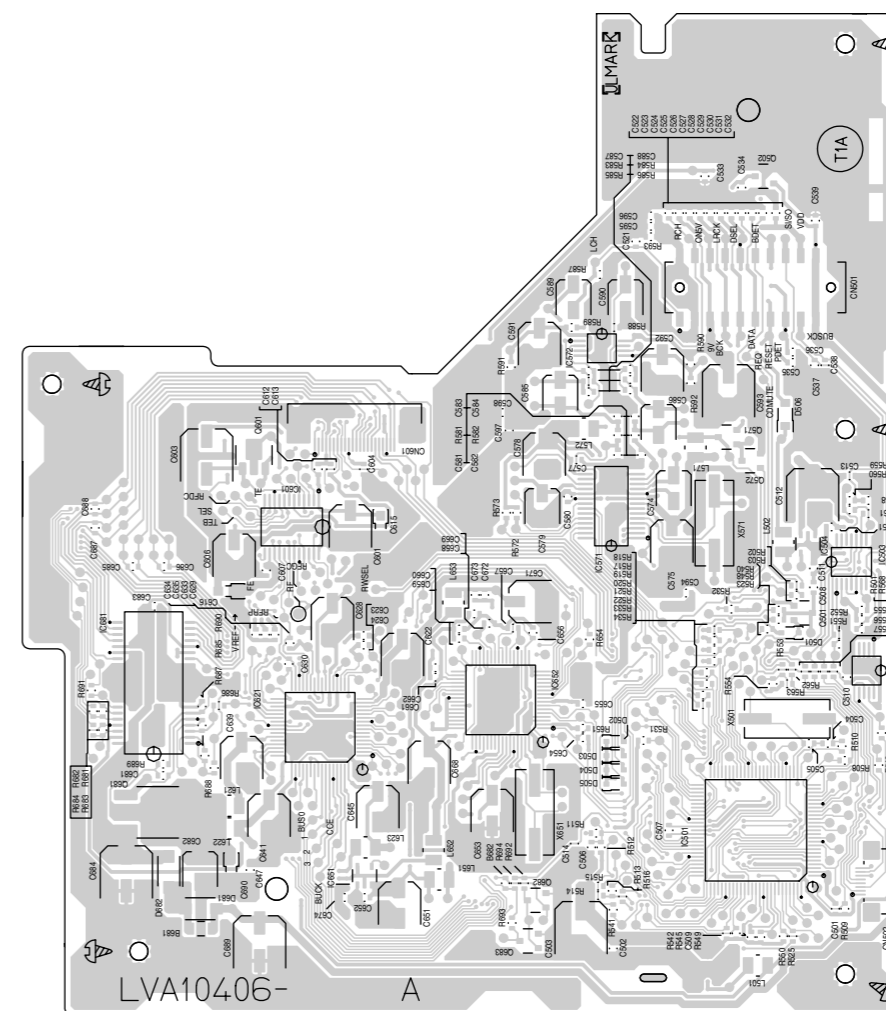
■ Mecha control board

Forward side



■ Mecha control board

Reverse side



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A

B

C

2-6

D

E

F

G

H

< MEMO >

KD-LH3150,KD-LH3100

JVC

VICTOR COMPANY OF JAPAN, LIMITED

AV & MULTIMEDIA COMPANY 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.49838SCH)



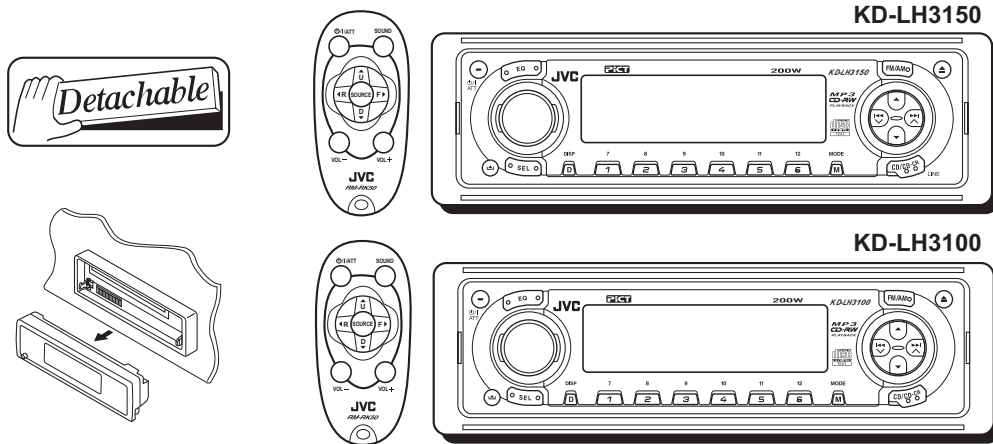
Printed in Japan
2003/05

JVC

SERVICE MANUAL

CD RECEIVER

KD-LH3150, KD-LH3100



KD-LH3150	
Area Suffix	
J	U.S.A.
C	CANADA

	KD-LH3150J	KD-LH3150C	KD-LH3100J
ARSENAL rogo	○	×	×
LINE in	○	○	×
Line output level	4 V	4 V	2 V
WARRANTY	2 YEAR	1 YEAR	1 YEAR

KD-LH3100	
Area Suffix	
J	U.S.A.


TABLE OF CONTENTS

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2	Disassembly method	1-4
3	Adjustment	1-23
4	Description of major ICs	1-27

SECTION 1

Important Safety 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 performing 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

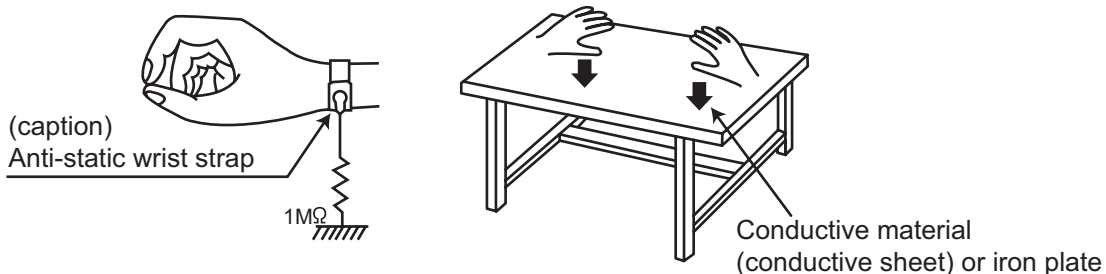
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players. Be careful to use proper grounding in the area where repairs are being performed.

(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.

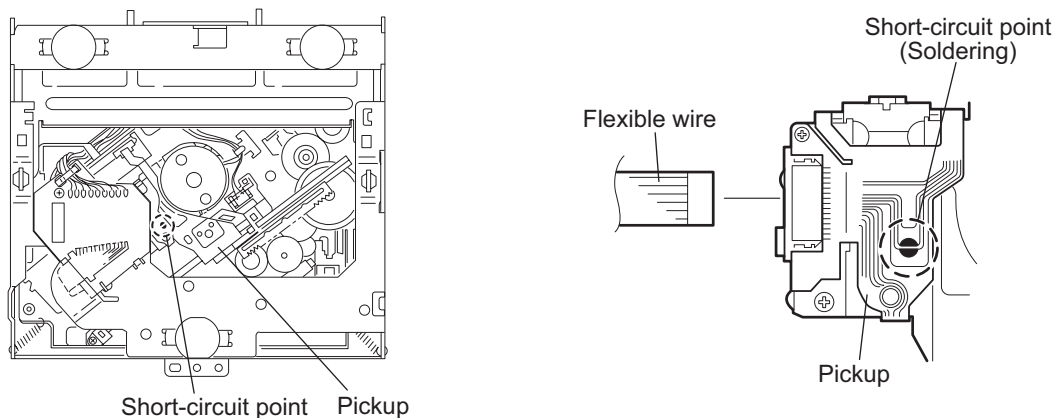
1.3 Handling the traverse unit (optical pickup)

- (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 CD pickup 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

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

- (1) Push the detach button in the lower left part of the front panel assembly and remove the front panel assembly.

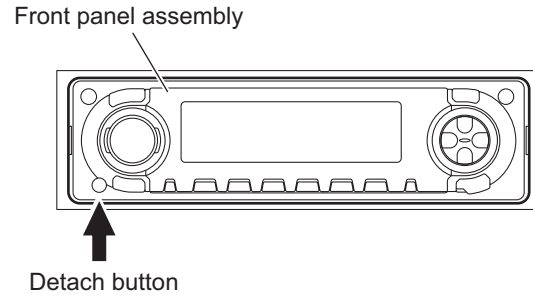


Fig.1

2.1.2 Removing the bottom cover (See Fig.2)

- Prior to performing the following procedure, remove the front panel assembly as required.
- (1) Turn over the main body and release the two joints **a**, two joints **b** and joint **c**.

NOTE:

Do not damage the main board when releasing the joints using a screwdriver.

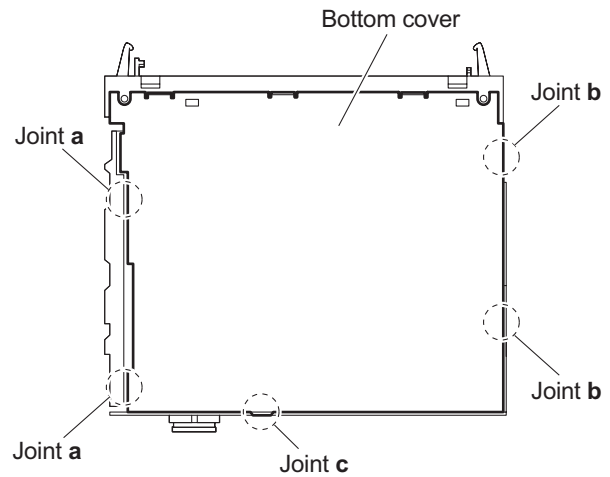


Fig.2

2.1.3 Removing the front chassis assembly (See Figs.3 and 4)

- Prior to performing the following procedures, remove the front panel assembly and bottom cover.
 - (1) Remove the two screws **A** on the both sides of the main body. (See Fig.3.)
 - (2) Remove the two screws **B** on the front side of the main body. (See Fig.4.)
 - (3) Release the two joints **d** and two joints **e** on the both sides of the main body. (See Fig.3.)

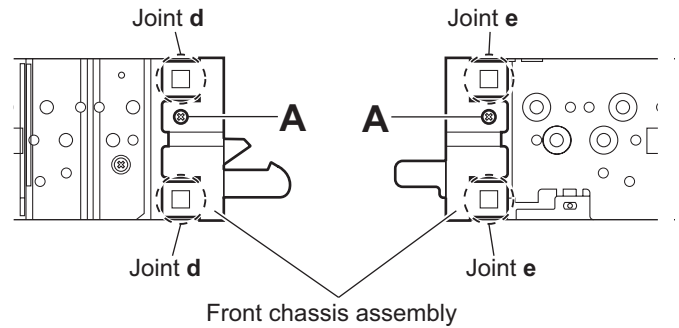


Fig.3

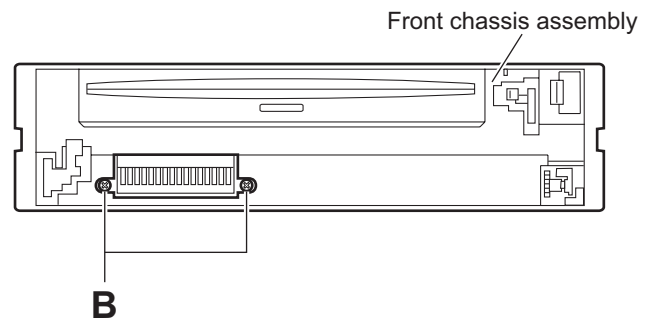


Fig.4

2.1.4 Removing the heat sink (See Fig.5)

- Prior to performing the following procedure, remove the front panel assembly as required.
 - (1) Remove the two screws **C** and two screws **D** on the left side of the main body.

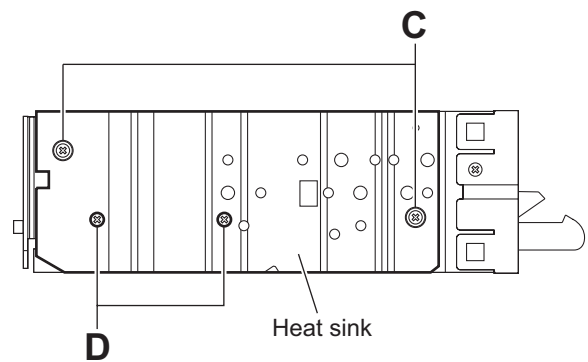


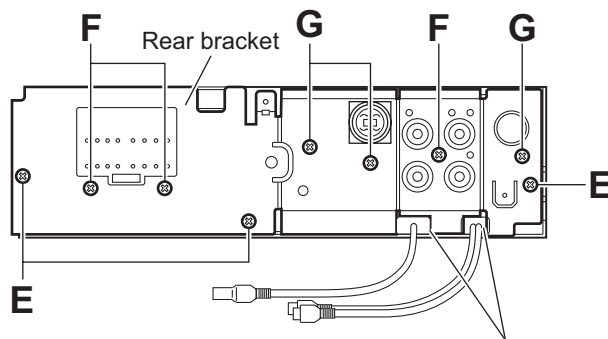
Fig.5

**2.1.5 Removing the rear bracket
(See Fig.6)**

- Prior to performing the following procedures, remove the bottom cover.
 - (1) Remove the three screws **E**, three screws **F** and three screws **G** on the back side of the main body.
 - (2) Remove the rear bracket.

REFERENCE:

During reassembly, before fixing the rear bracket onto the main body, insert the SUB WOOFER cable and LINE IN cable (KD-LH3150 only) into the slots.



Insert SUB WOOFER cable and LINE IN cable (KD-LH3150 only) into the slots.

Fig.6

**2.1.6 Removing the main board
(See Fig.7)**

- Prior to performing the following procedures, remove the front panel assembly, bottom cover, front chassis assembly, heat sink and rear bracket
 - (1) Remove the two screws **H** attaching the main board.
 - (2) Disconnect the connector CN601 and remove the main board in an upward direction.

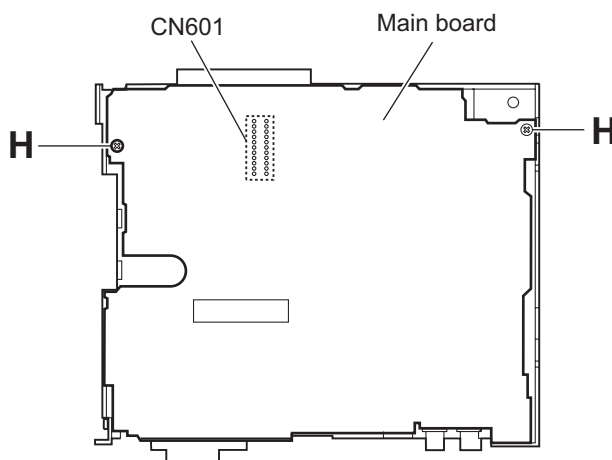


Fig.7

**2.1.7 Removing the mecha control board
(See Fig.8)**

- Prior to performing the following procedures, remove the front panel assembly, bottom cover, front chassis assembly, heat sink, rear bracket and main board.
 - (1) Remove the five screws **J** attaching the mecha control board.
 - (2) Disconnect the card wire from the mecha connector.
 - (3) Move the mecha control board in the direction of the arrow to release it from the joint f.

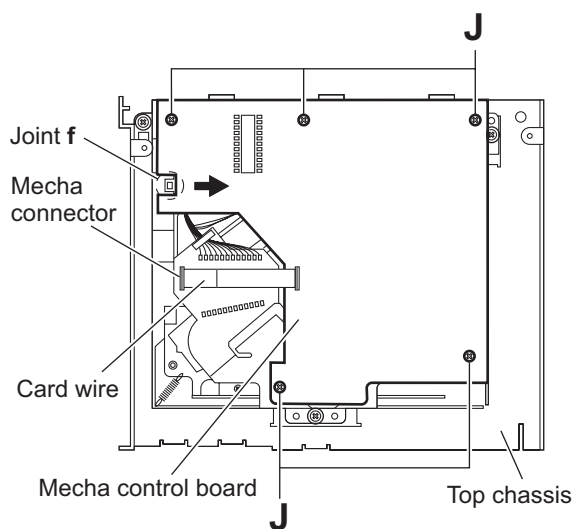


Fig.8

2.1.8 Removing the CD mechanism assembly (See Fig.9)

- Prior to performing the following procedure, remove the front panel assembly, bottom cover, front chassis assembly, heat sink, rear bracket, main board and mecha control board.
- (1) Remove the three screws **K** attaching the CD mechanism assembly to the top chassis.

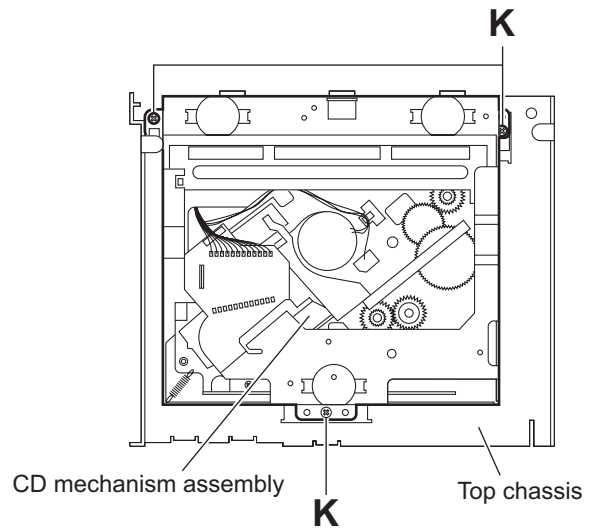


Fig.9

2.1.9 Removing the front board (See Figs.10 to 12)

- Prior to performing the following procedures, remove the front panel assembly.
- (1) Remove the five screws **L** attaching the rear cover on the back side of the front panel assembly. (See Fig.10.)
- (2) Release the eight joints **g**, remove the rear cover from the front panel assembly. (See Fig.11.)
- (3) Take out the front board. (See Fig.12.)

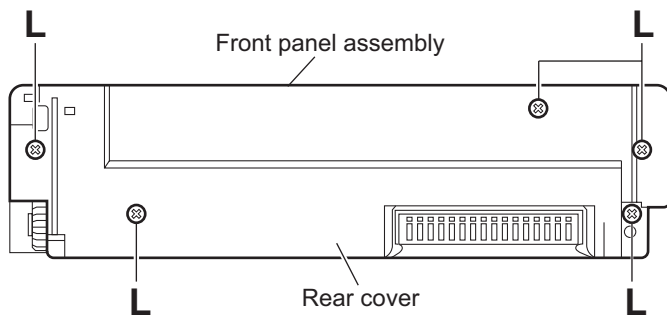


Fig.10

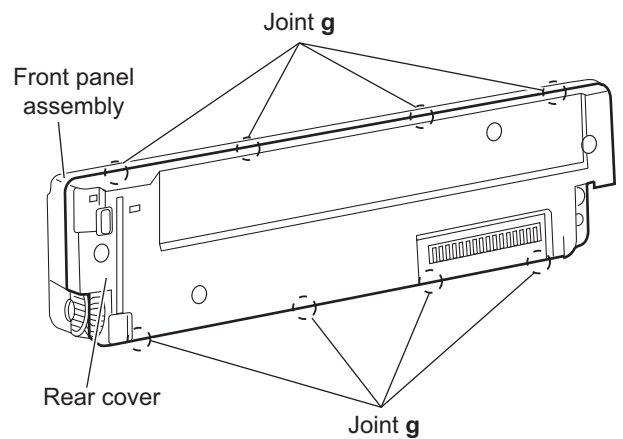


Fig.11

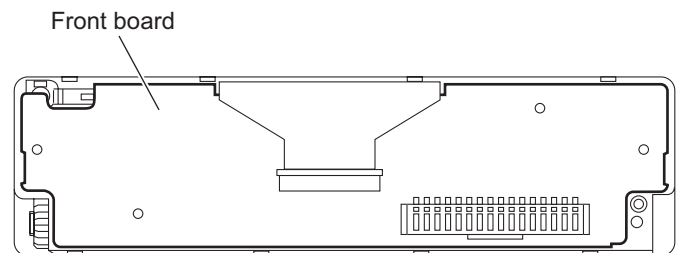


Fig.12

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**.

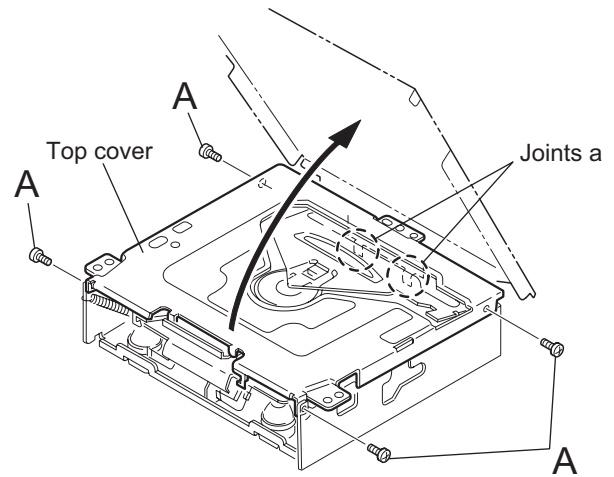


Fig.1

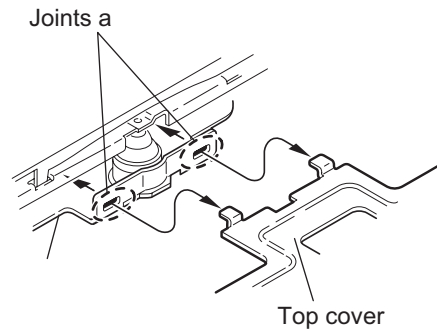


Fig.2

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

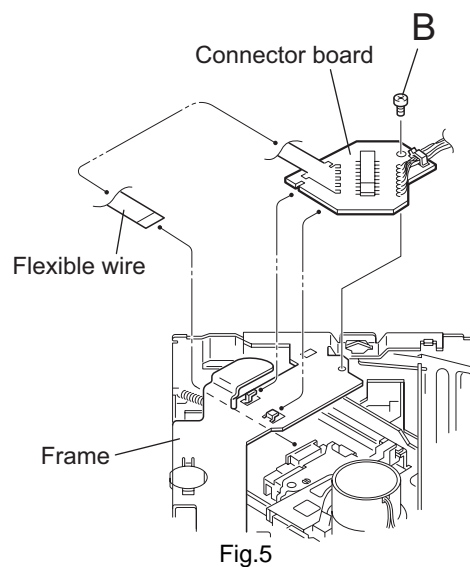
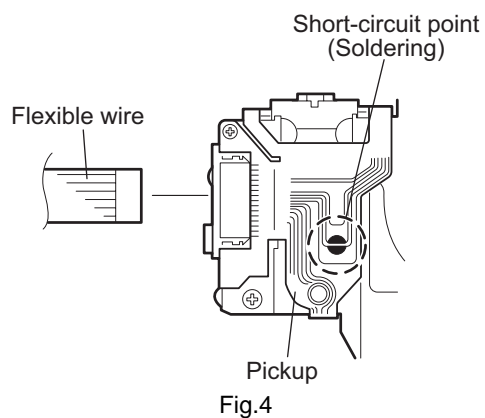
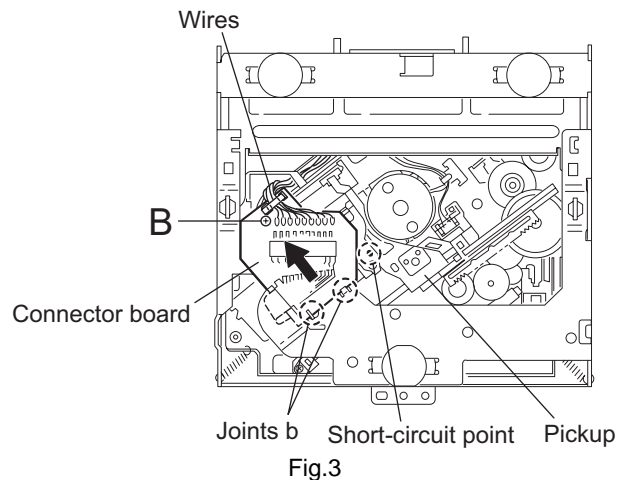
CAUTION:

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.



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.

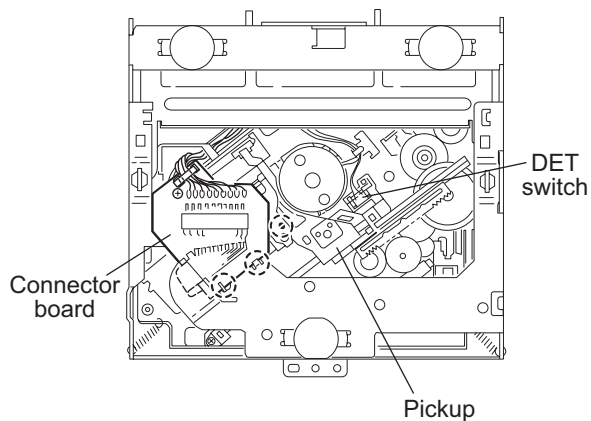


Fig.6

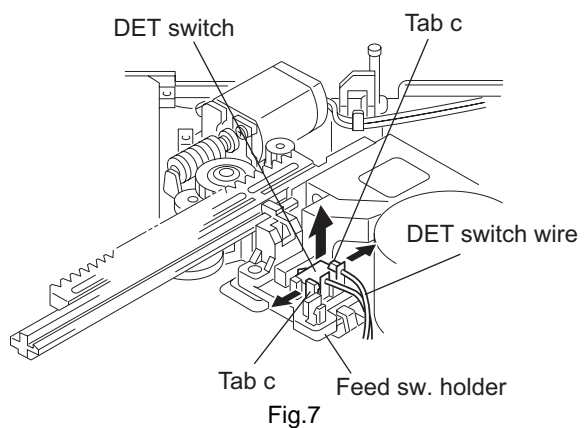


Fig.7

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.

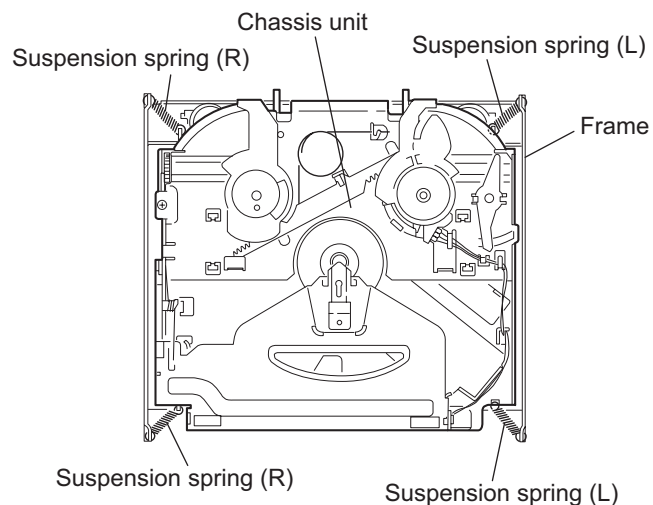


Fig.8

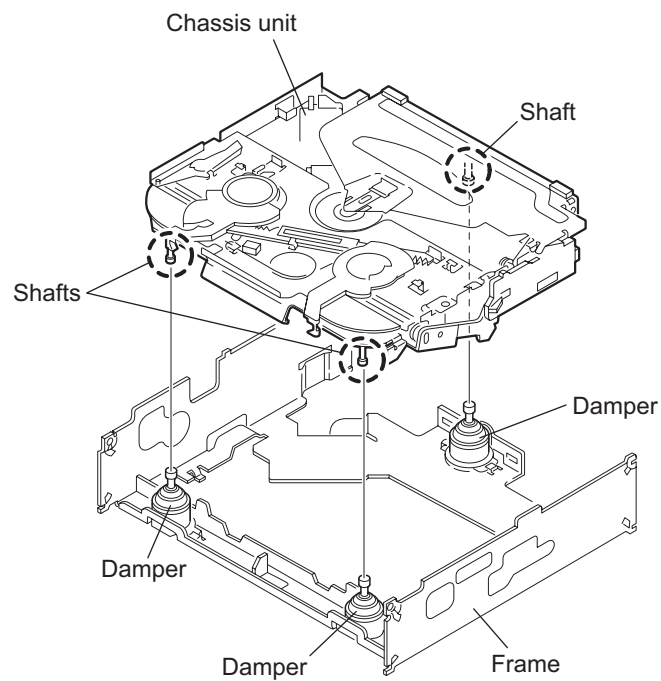
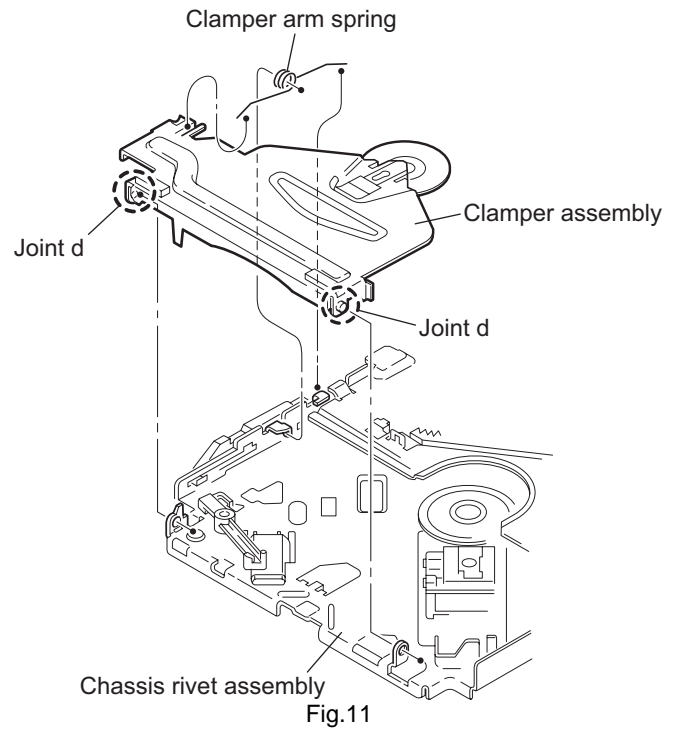
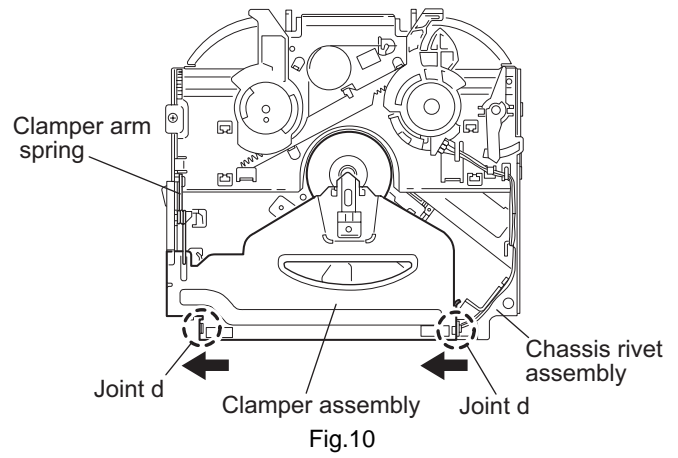


Fig.9

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**.

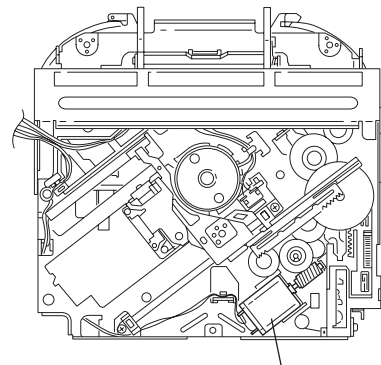


2.2.6 Removing the loading / feed motor assembly (See Figs.12 and 13)

- 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.



Loading / feed motor assembly

Fig.12

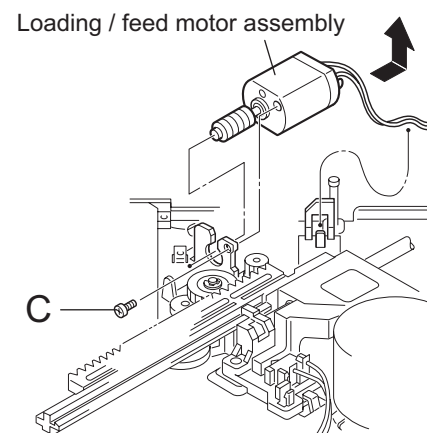


Fig.13

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.

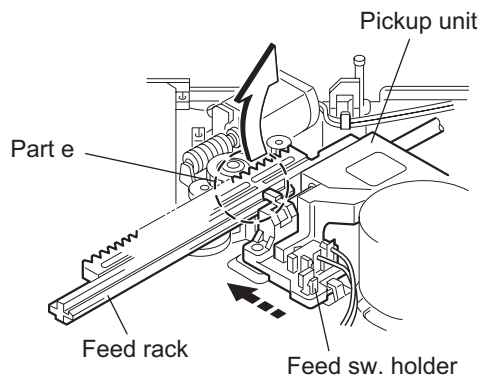


Fig.15

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**.

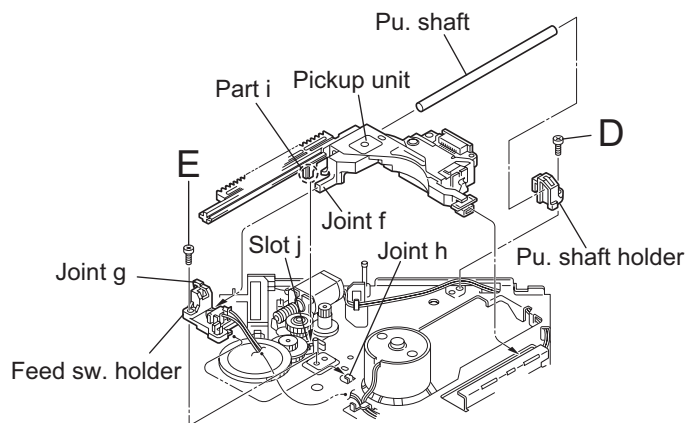


Fig.16

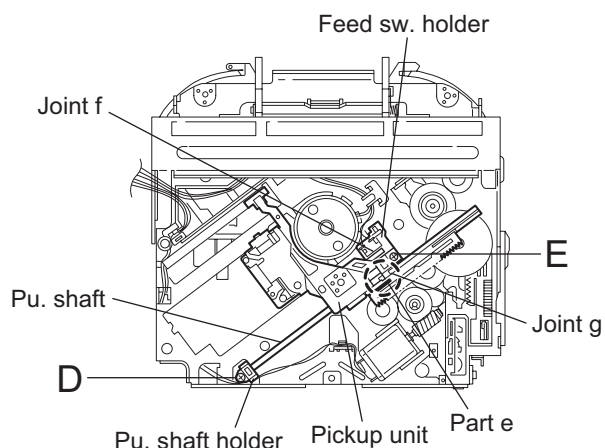


Fig.14

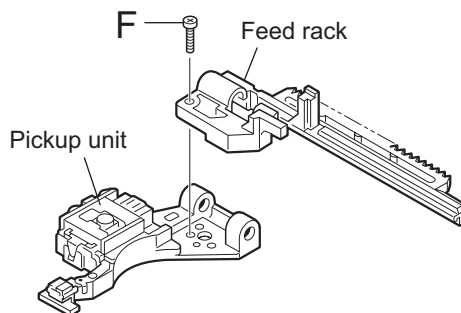


Fig.17

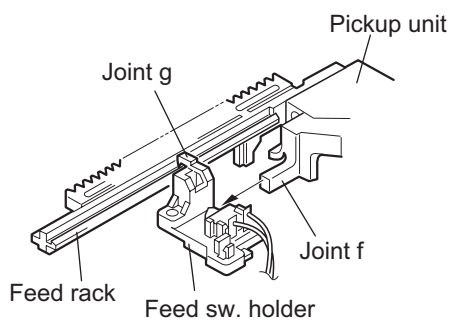


Fig.18

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 clasper 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.

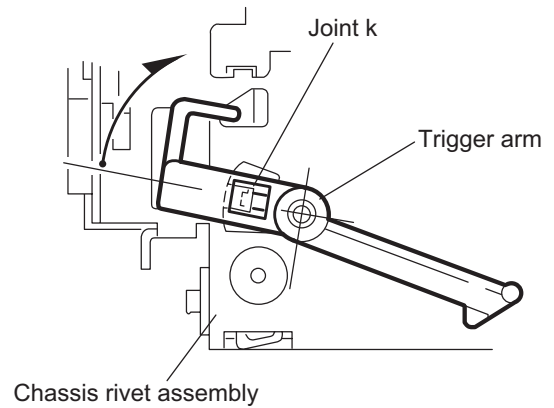


Fig.19

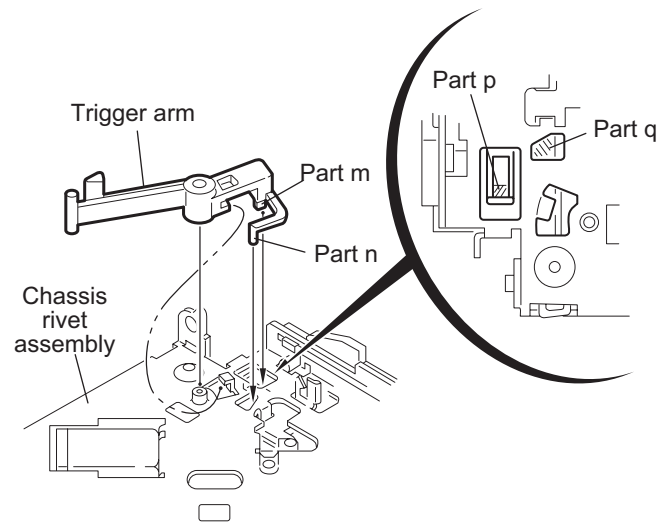


Fig.20

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 clasper 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.

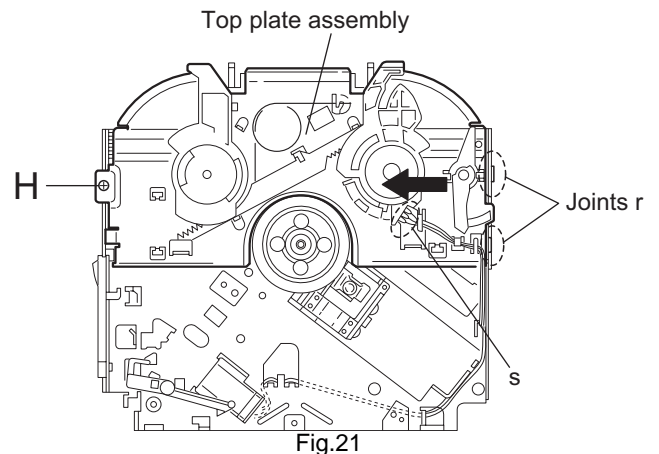


Fig.21

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.

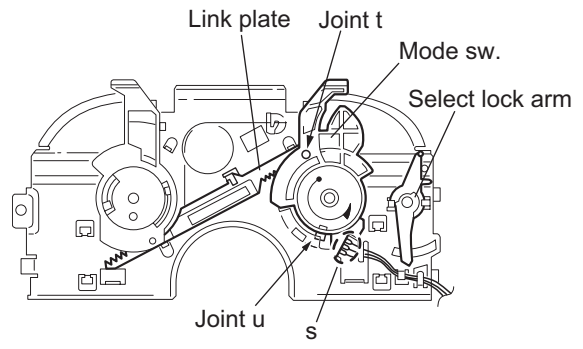


Fig.22

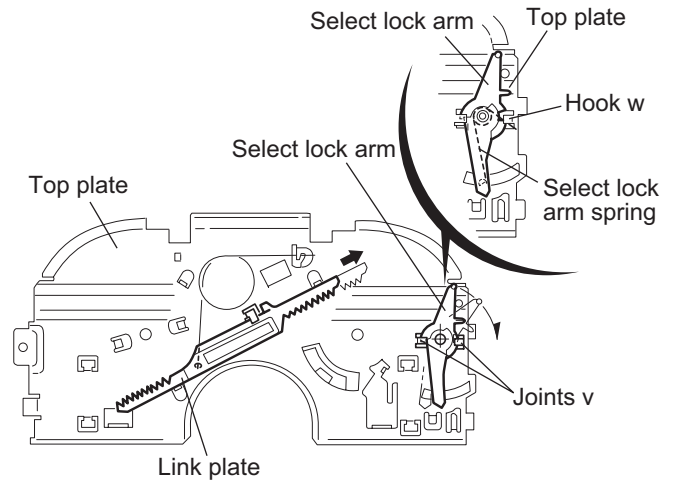


Fig.23

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.

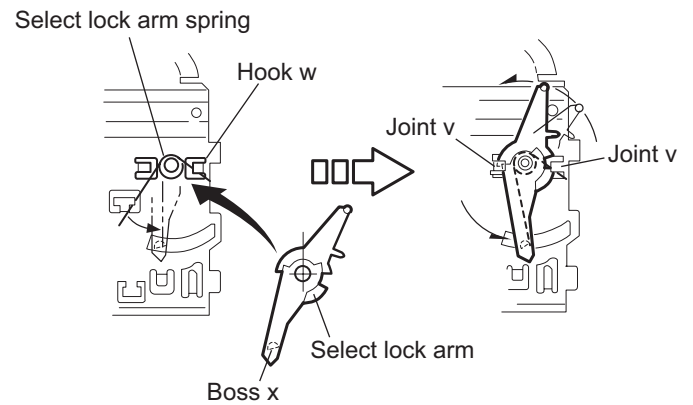


Fig.24

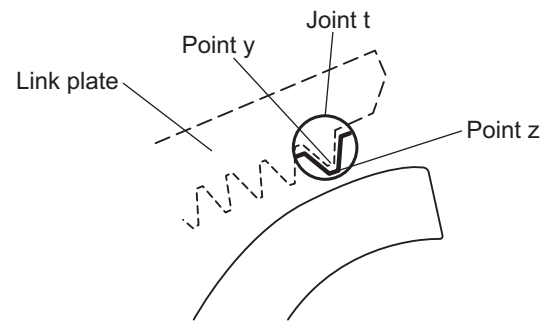


Fig.25

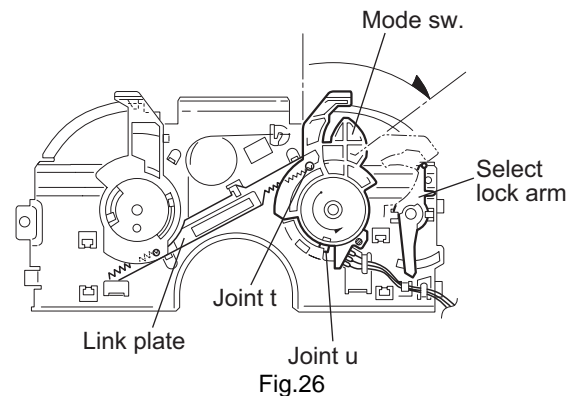


Fig.26

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..

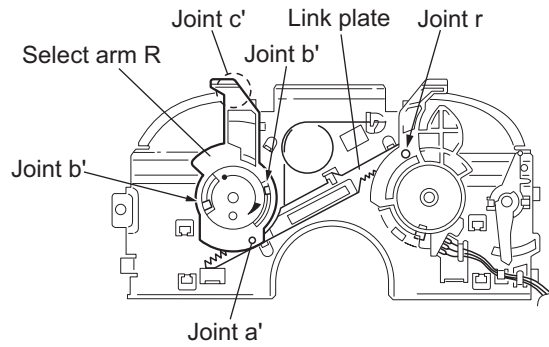


Fig.27

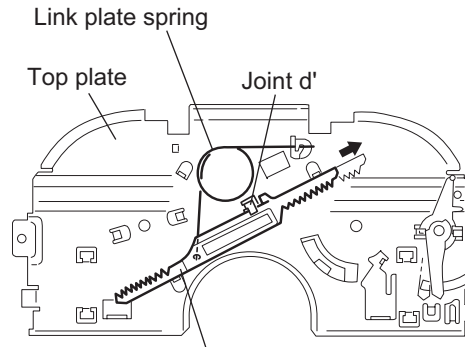


Fig.28

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.

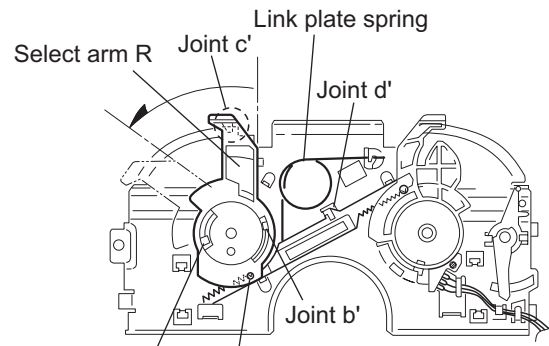


Fig.29

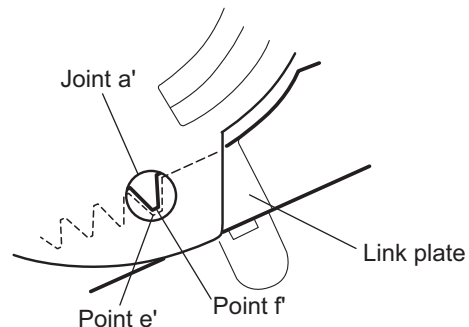


Fig.30

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.

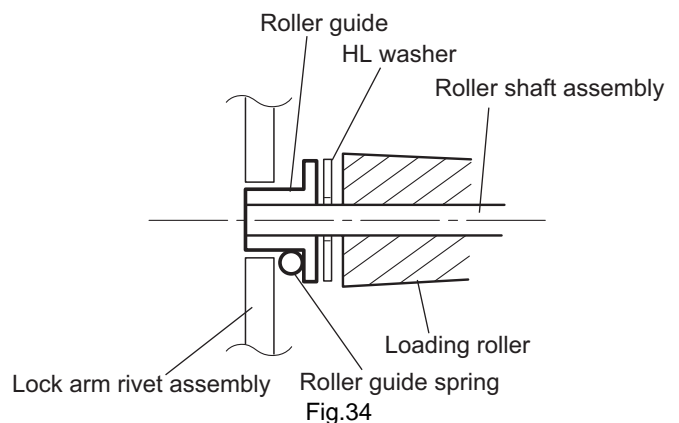
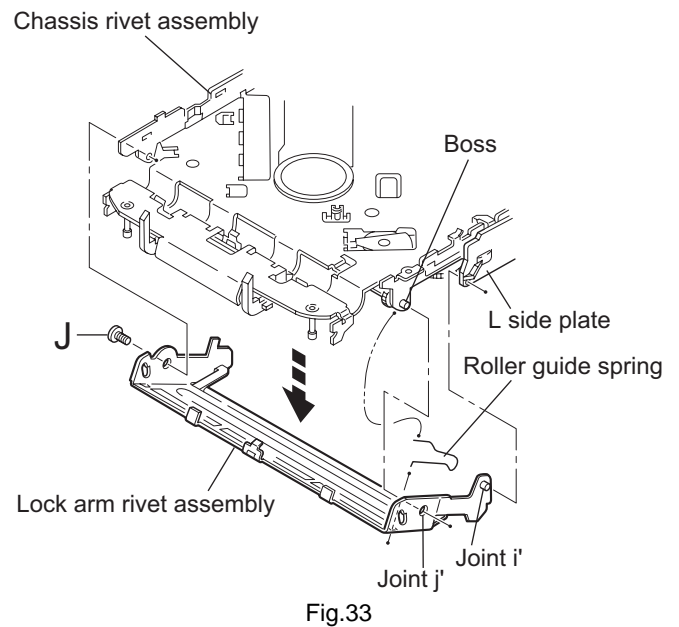
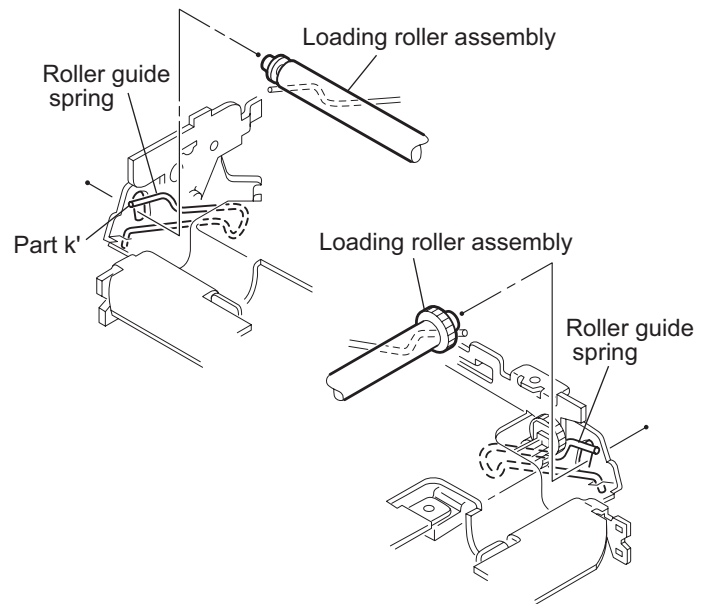
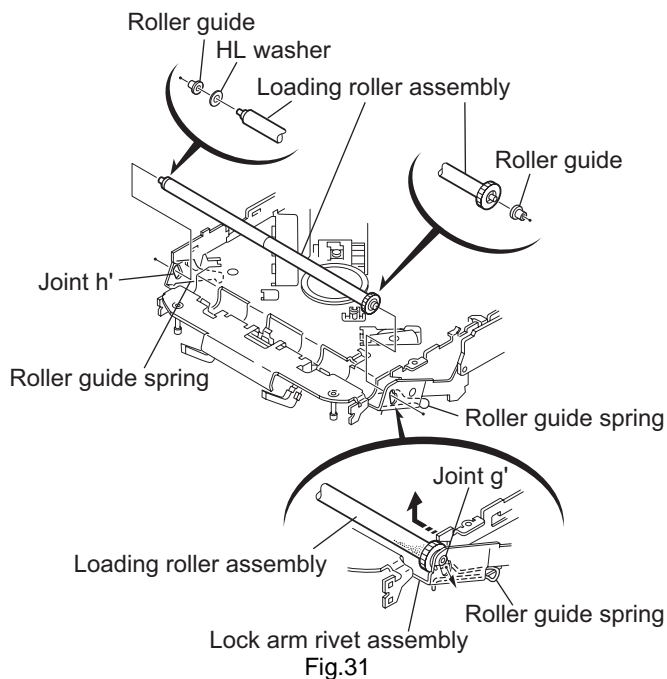
The roller guide comes off the gear section of the loading roller assembly.

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.

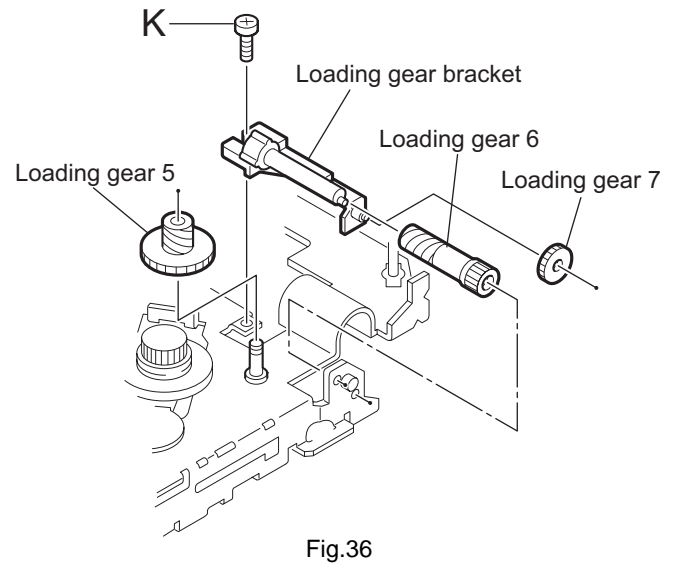
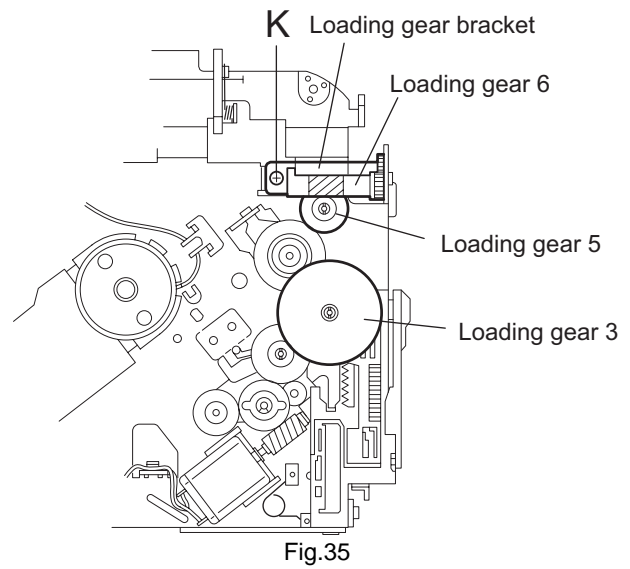
CAUTION:

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.)



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.



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.

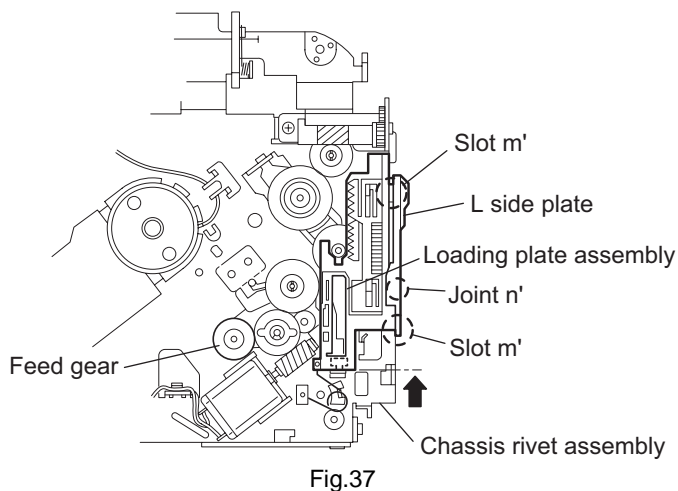


Fig.37

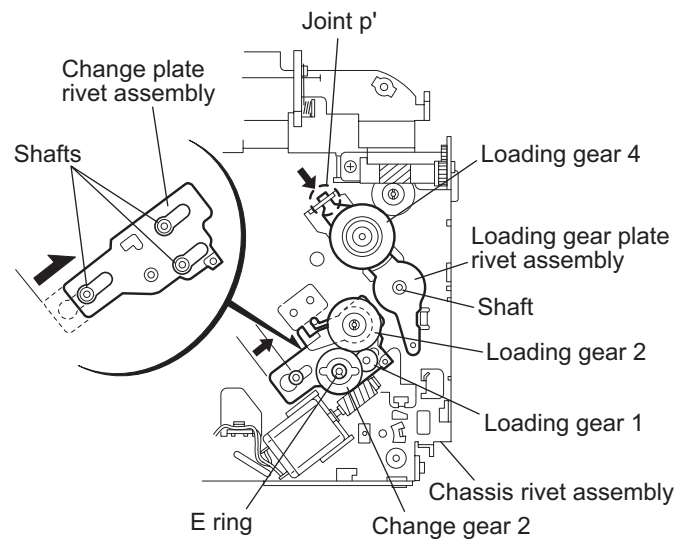


Fig.38

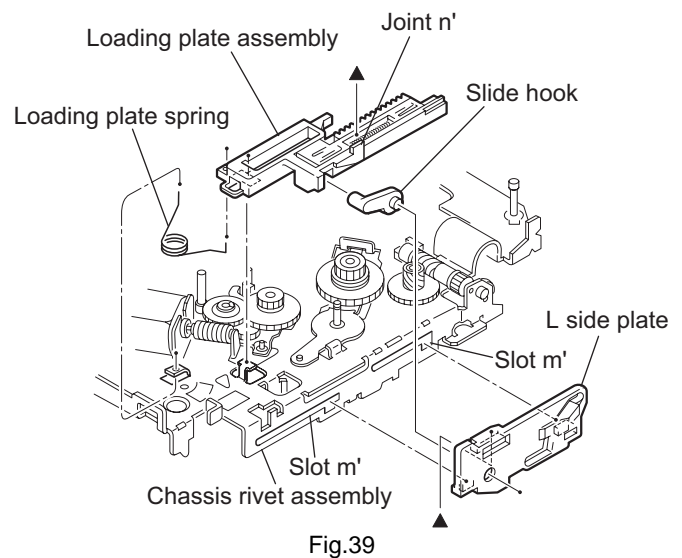


Fig.39

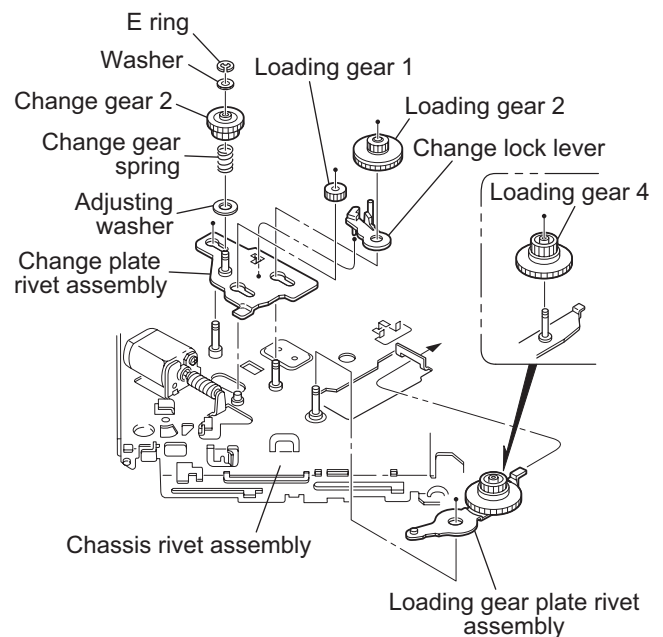
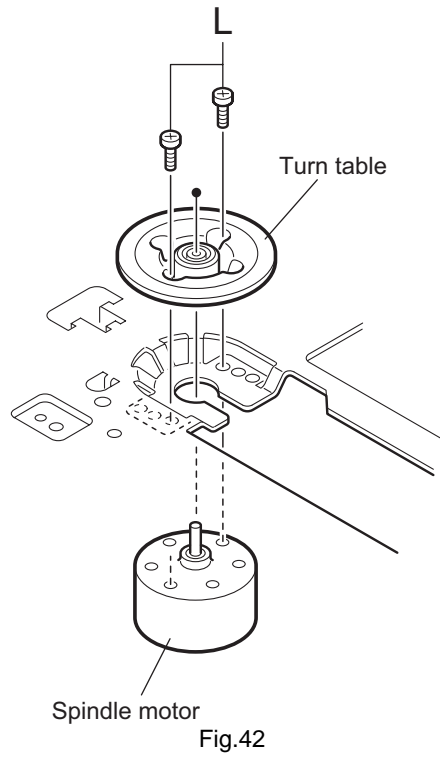
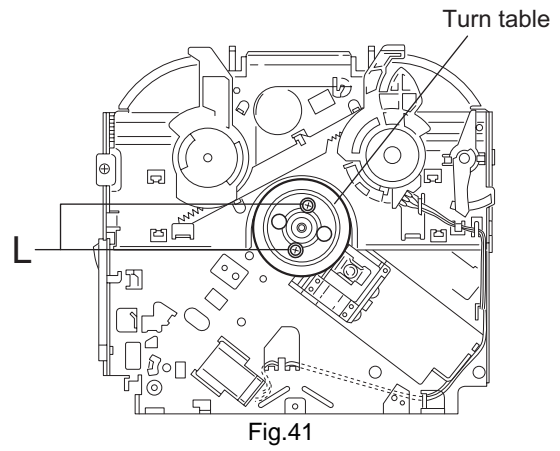


Fig.40

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 clasper 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.



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 measuring conditions

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

■ How to connect the extension cable for adjusting

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

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.

■ Standard volume position

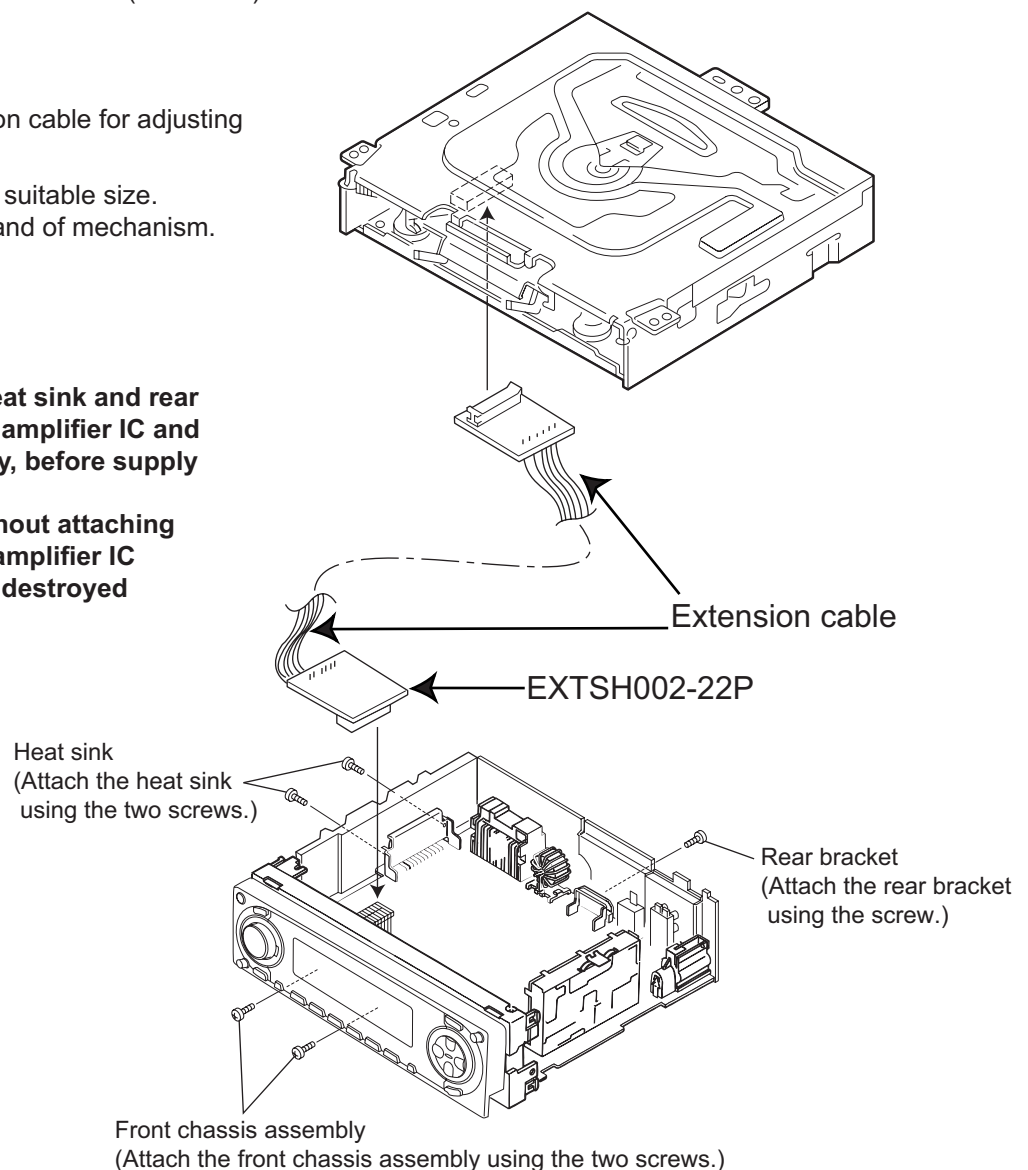
Balance and Bass & Treble volume : Indication "0"
Loudness : OFF

■ Frequency Band

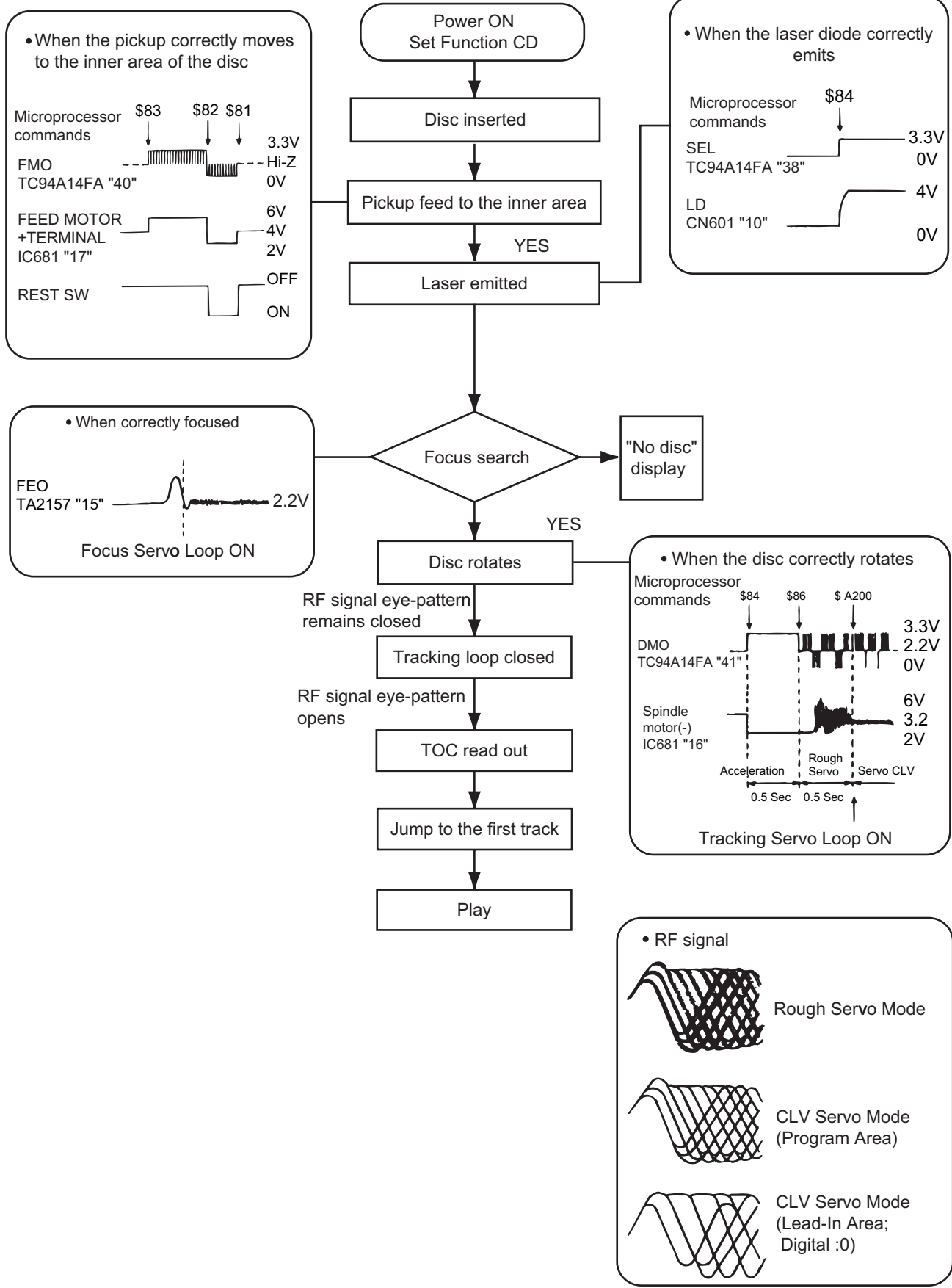
FM 87.5MHz to 107.9MHz
AM 530kHz to 1710kHz

■ Dummy load

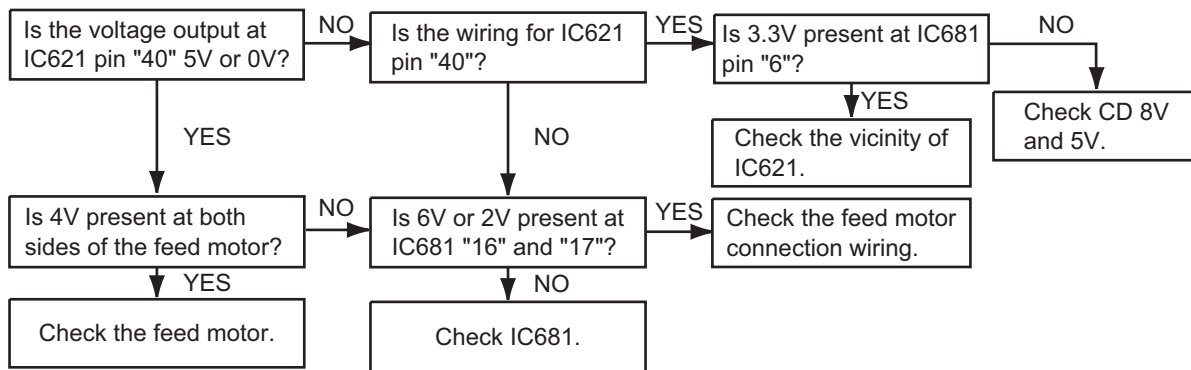
Exclusive dummy load should be used for AM, and FM. For FM dummy load, there is a loss of 6dB between SSG output and antenna input. The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.



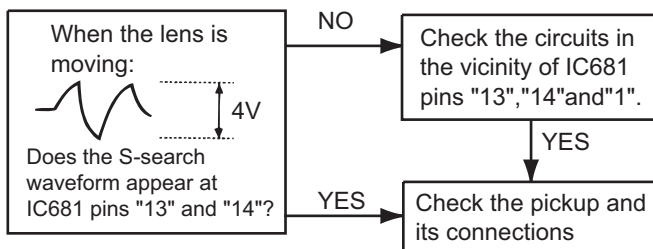
3.2 Flow of functional operation unit TOC read



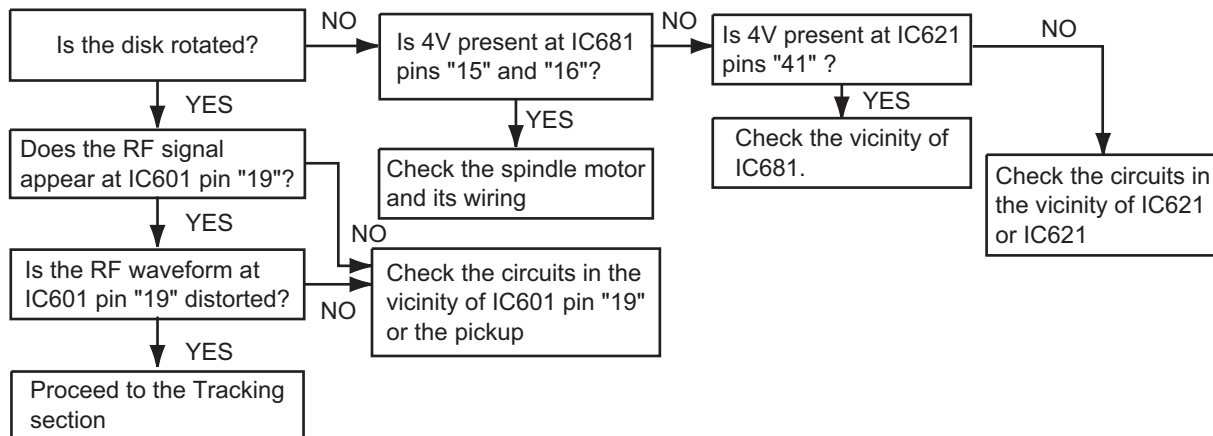
3.2.1 Feed section



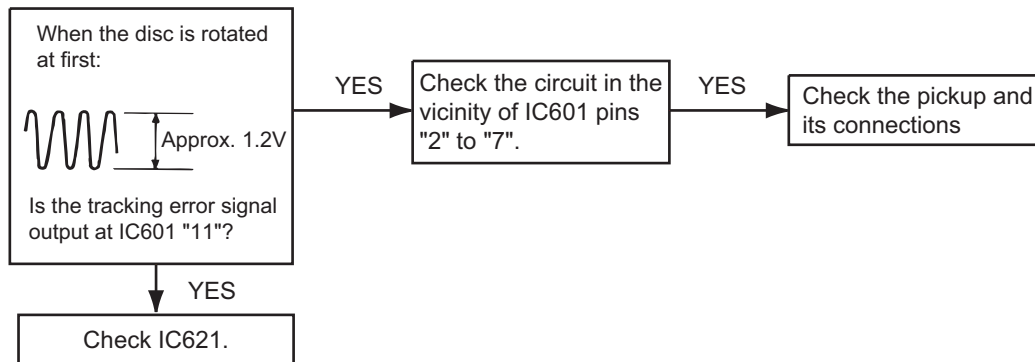
3.2.2 Focus section



3.2.3 Spindle section



3.2.4 Tracking section



3.3 Maintenance of laser pickup

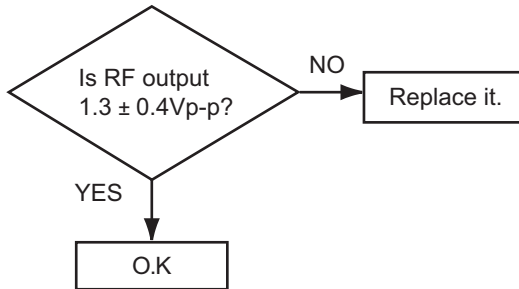
(1) Cleaning the pick up lens

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.

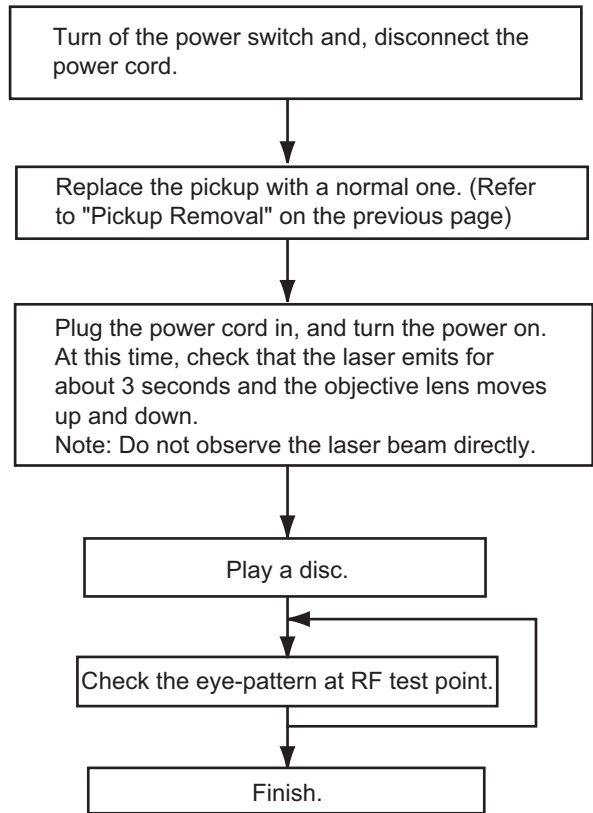
- The level of RF output (EFM output:amplitude of eye pattern) will be low.



(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.

3.4 Replacement of laser pickup

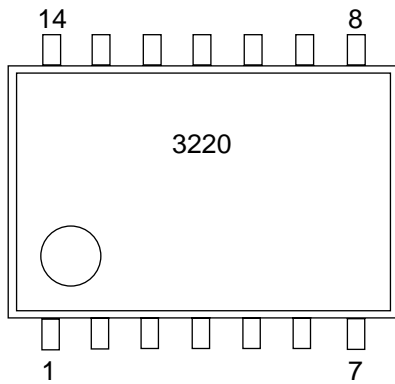


SECTION 4

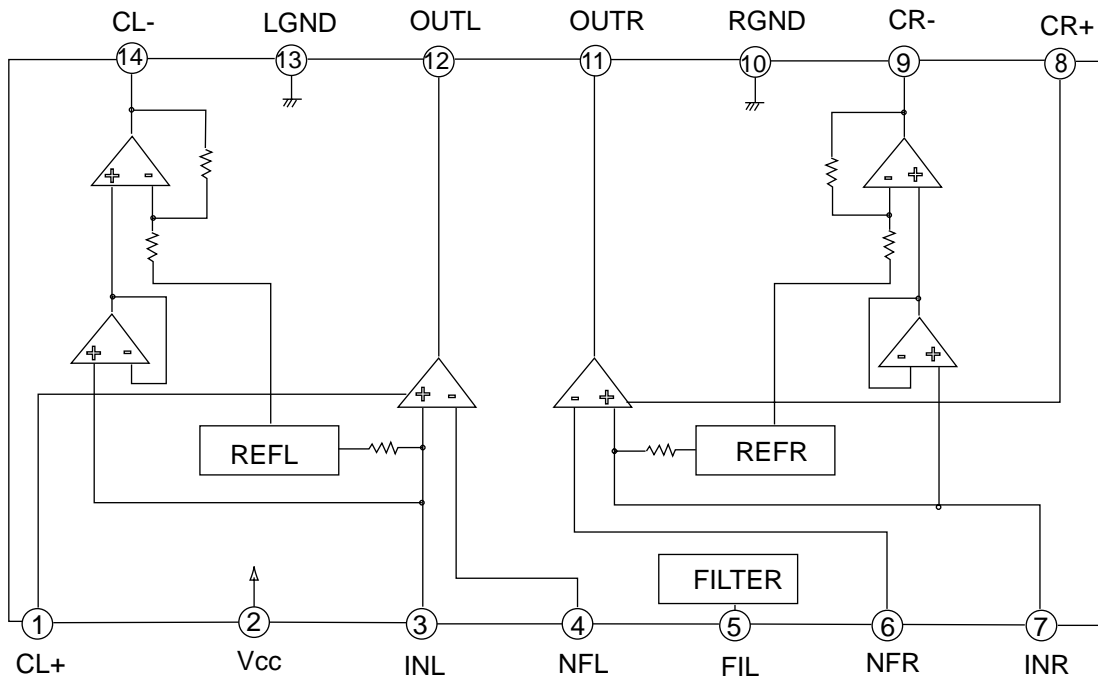
Description of major ICs

4.1 BA3220FV-X (IC281, IC301) : Line out amplifier

- Pin layout

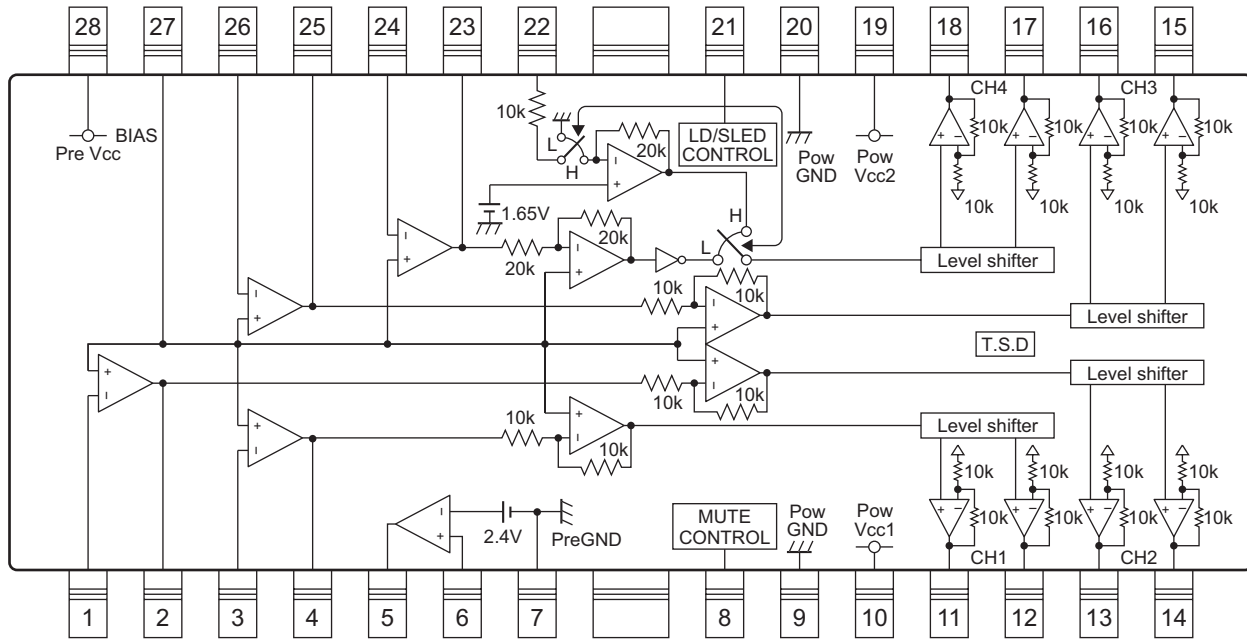


- Block diagram



4.2 BA5830FP-X (IC681) : Power driver

- Pin layout & Block diagram



T.S.D : thermal shutdown
Unit of resistance : [Ω]

- Pin function

Pin No.	Symbol	Function
1	OPIN2(-)	CH2 Pre OP amplifier invert input
2	OPOUT2	CH2 Pre OP amplifier output
3	OPIN1(-)	CH1 Pre OP amplifier invert input
4	OPOUT1	CH1 Pre OP amplifier output
5	REG-B	Connect to external Tr Base
6	REG(+)	Regulator terminal of output feedback
7	PreGND	Pre Block and Regulator GND
8	MUTE	Mute terminal
9	PowGND	Power Block GND
10	PowVcc1	CH1, 2 Power Block Vcc
11	VO1(-)	Driver CH1 negative output
12	VO1(+)	Driver CH1 positive output
13	VO2(-)	Driver CH2 negative output
14	VO2(+)	Driver CH2 positive output

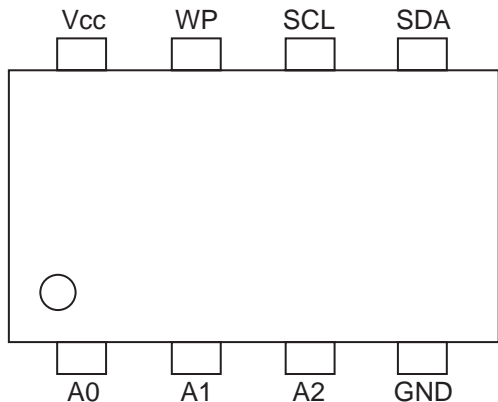
Pin No.	Symbol	Function
15	VO3(+)	Driver CH3 positive output
16	VO3(-)	Driver CH3 negative output
17	VO4(+)	Driver CH4 positive output
18	VO4(-)	Driver CH4 negative output
19	PowVcc2	CH3, 4 Power Block VCC
20	PowGND	Power Block GND
21	CNT	Control terminal
22	LDIN	Loading input
23	OPOUTSL	SLED Pre OP amplifier output
24	OPINSL(-)	SLED Pre OP amplifier invert input
25	OPOUT3	CH3 Pre OP amplifier output
26	OPIN3(-)	CH3 Pre OP amplifier invert input
27	BIAS	BIAS input
28	PreVcc	Pre-Block VCC

NOTE:

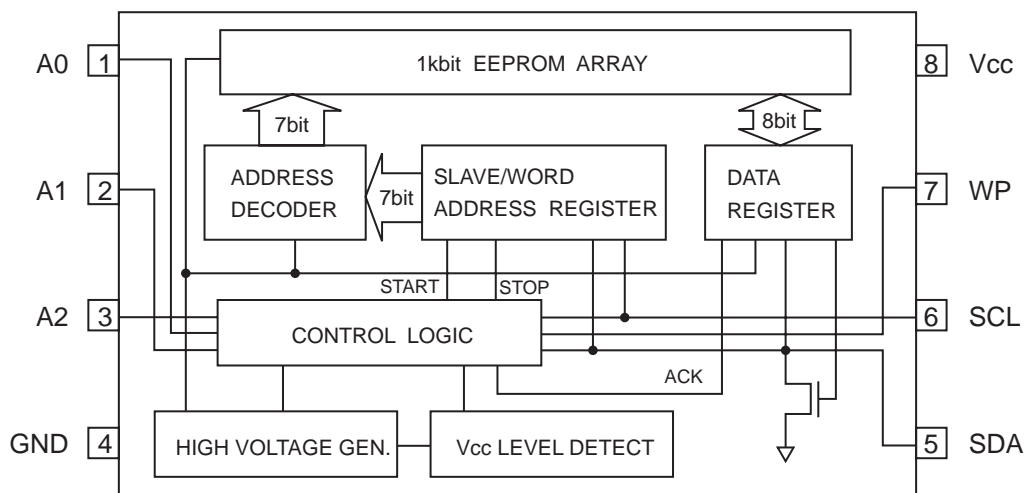
When PIN2,4,22,25 is high ("H"), the positive output pin of the driver is high ("H") and the negative output pin is low ("L").
When PIN23 is high ("H"), the positive output pin of CH4 is low ("L") and negative output pin is high ("H").

4.3 BR24C01AFV-W-X (IC502) : EEPROM

- Pin layout



- Block diagram



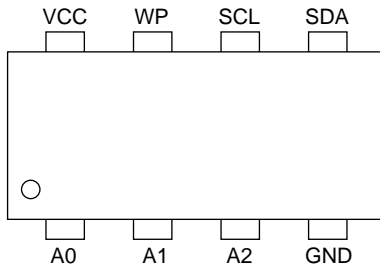
- Pin function

Pin name	I/O	Description
Vcc	-	Power supply
GND	-	Ground (0v)
A0, A1, A2	IN	Slave address set
SCL	IN	Serial clock input
SDA	IN / OUT	Slave and word addressserial data input serial data output *1
WP	IN	Write protect input

*1 An open drain output requires a pull-up resistor.

4.4 BR24C16F-X (IC703) : EEPROM

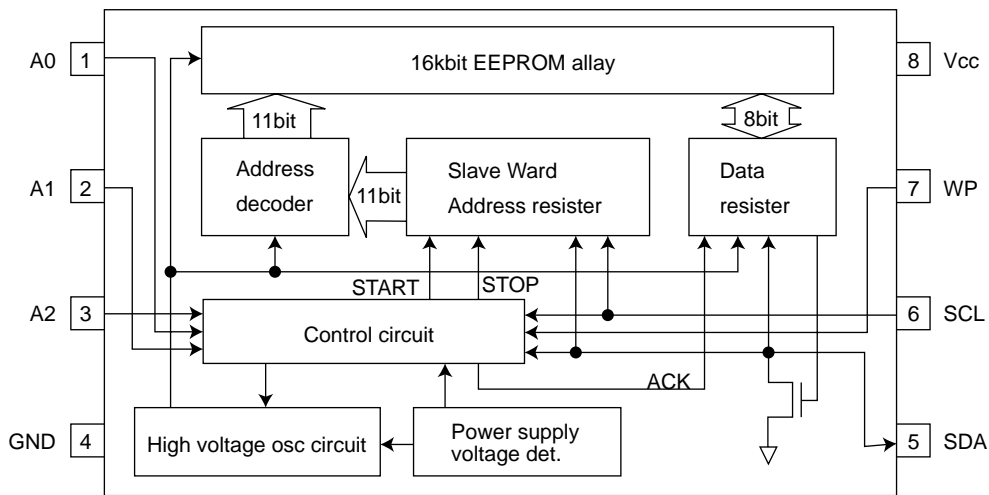
- Pin layout



- Pin function

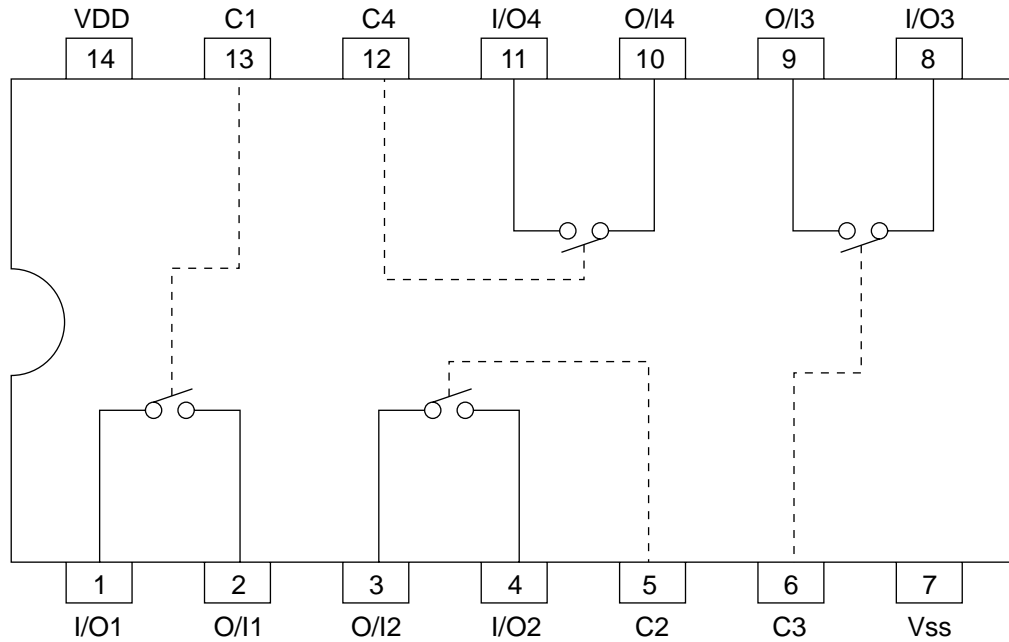
Symbol	I/O	Function
VCC	-	Power supply.
GND	-	GND
A0, A1, A2	I	No use connect to GND.
SCL	I	Serial clock input.
SDA	I/O	Serial data I/O of slave and ward address.
WP	I	Write protect terminal.

- Block diagram



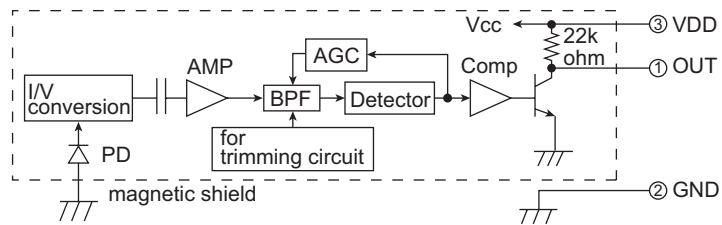
4.5 BU4066BCFV-X (IC131) : Quad analog switch

- Pin layout & Block diagram



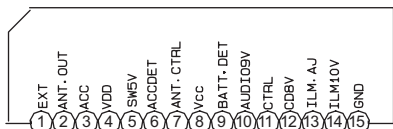
4.6 RPM6938-SV4 (IC805) : Remote control receiver

- Block diagram

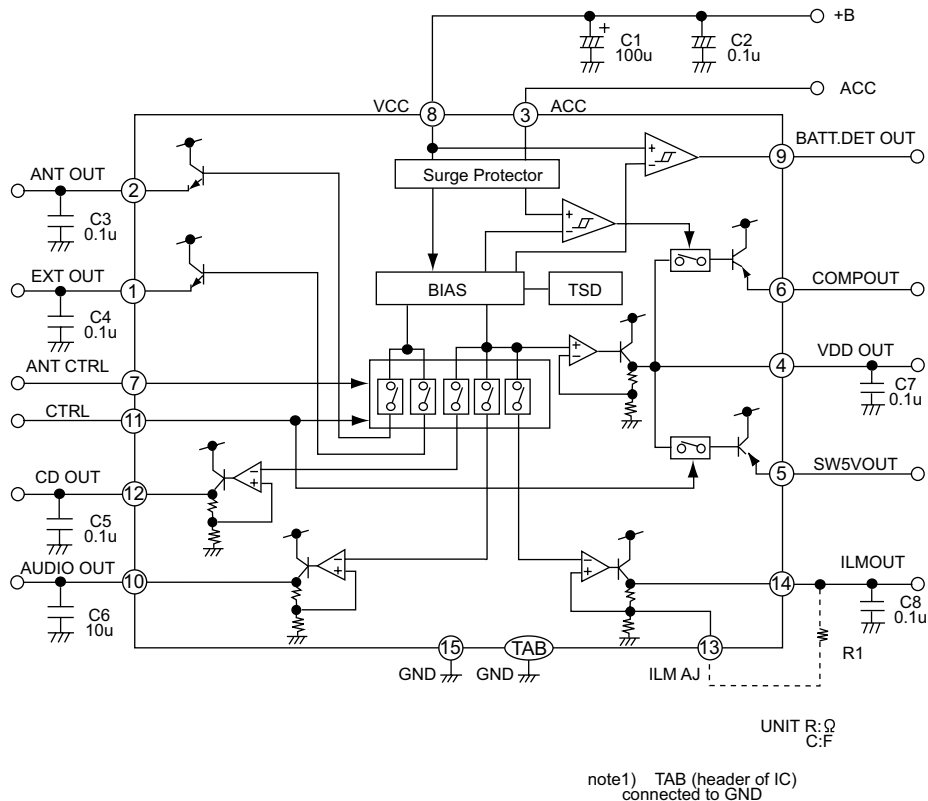


4.7 HA13164A (IC901) : Regulator

- Pin layout



- Block diagram

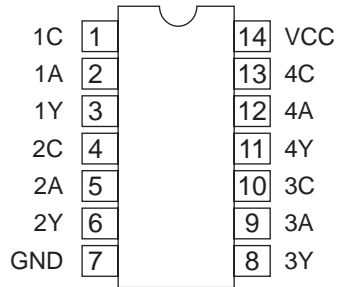


- Pin function

Pin No.	Symbol	Function
1	EXTOUT	Output voltage is VCC-1 V when M or H level applied to CTRL pin.
2	ANTOUT	Output voltage is VCC-1 V when M or H level to CTRL pin and H level to ANT-CTRL.
3	ACCIN	Connected to ACC.
4	VDDOUT	Regular 5.7V.
5	SW5VOUT	Output voltage is 5V when M or H level applied to CTRL pin.
6	COMPOUT	Output for ACC detector.
7	ANT CTRL	L:ANT output OFF, H:ANT output ON
8	VCC	Connected to VCC.
9	BATT DET	Low battery detect.
10	AUDIO OUT	Output voltage is 9V when M or H level applied to CTRL pin.
11	CTRL	L:BIAS OFF, M:BIAS ON H:CD ON
12	CD OUT	Output voltage is 8V when H level applied to CTRL pin.
13	ILM AJ	Adjustment pin for ILM output voltage.
14	ILM OUT	Output voltage is 10V when M or H level applied to CTRL pin.
15	GND	Connected to GND.

4.8 HD74HC126FP-X (IC781) : Buffer

• Pin layout



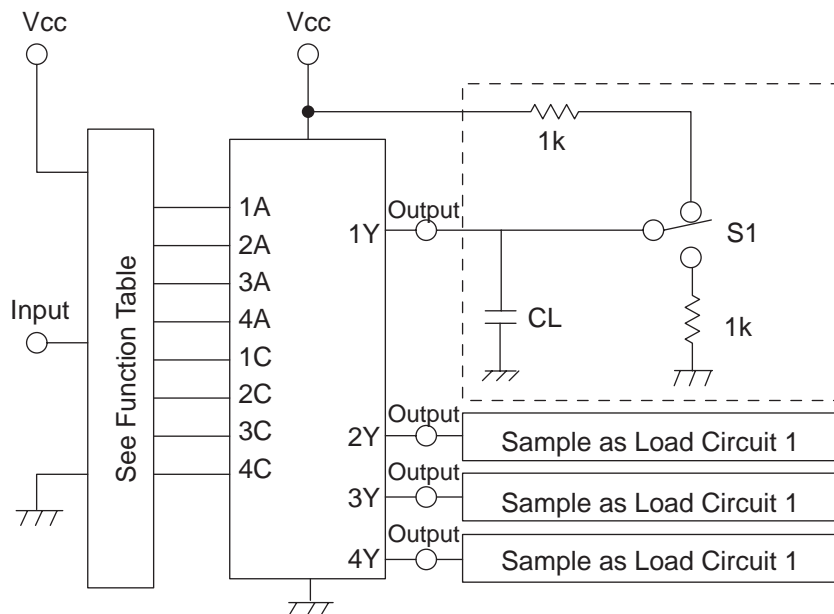
• Pin function

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

Note:

H:High level
 L:Low level
 X:Irrelevant
 Z:Off(High-impedance)
 State a 3-state input

• Block diagram

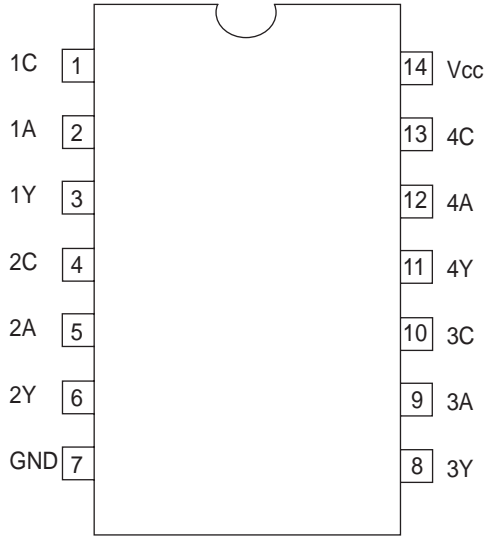


Note:

CL includes probe and jig capacitance

4.9 HD74HCT126T-X (IC503) : Buffer

• Pin layout

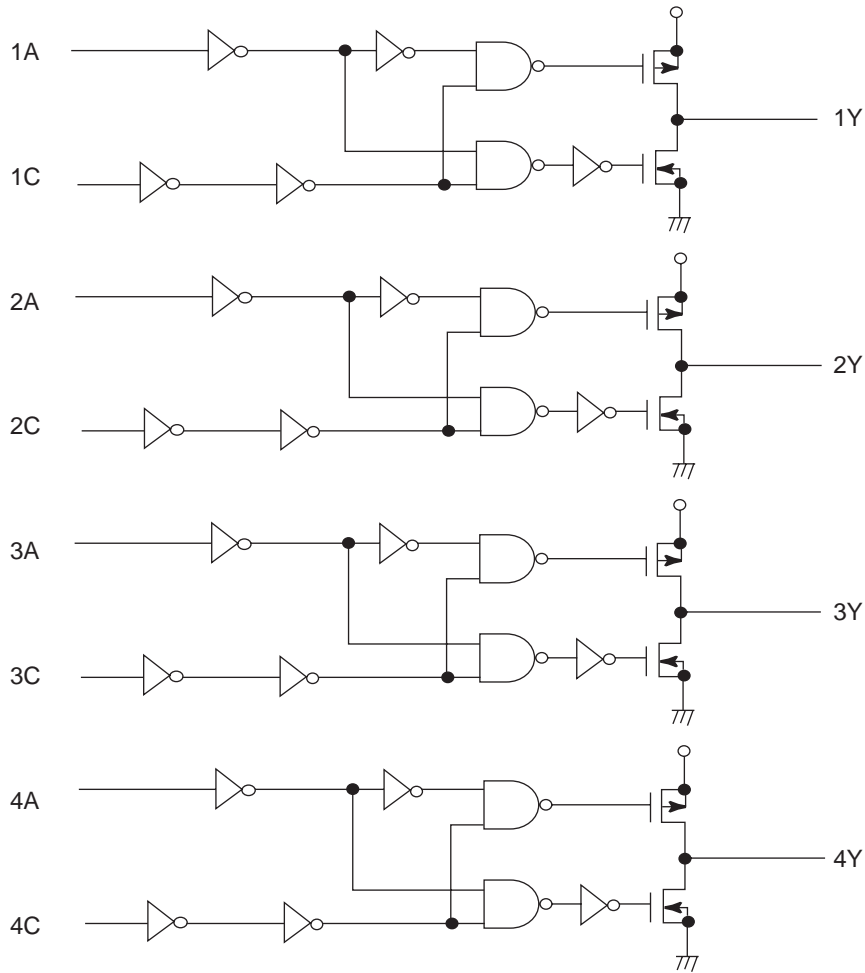


• Pin function

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

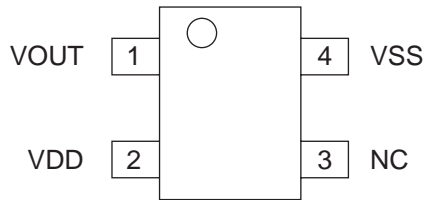
H : High level
 L : Low level
 X : Irrelevant
 Z : Off (High-impedance) state of a 3-stage output

• Block diagram

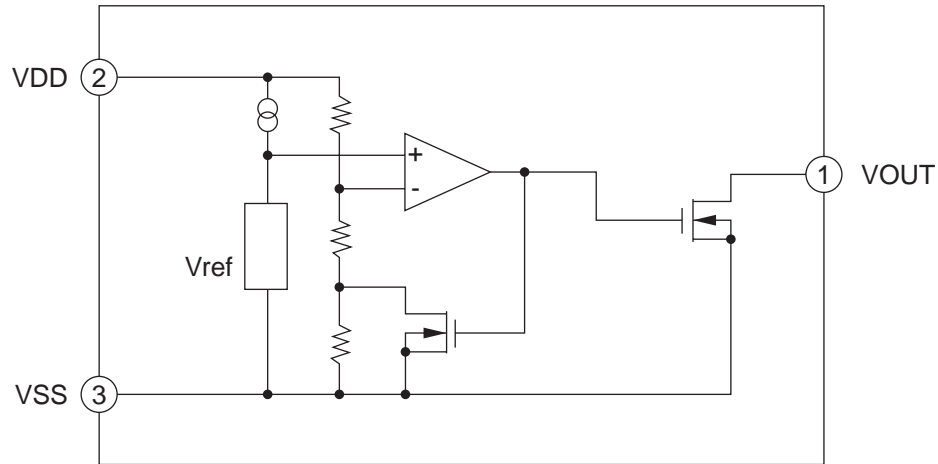


4.10 IC-PST3424U-X (IC803) : Reset

- Pin layout



- Block diagram

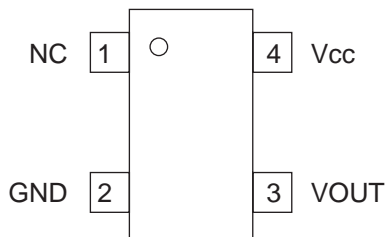


- Pin function

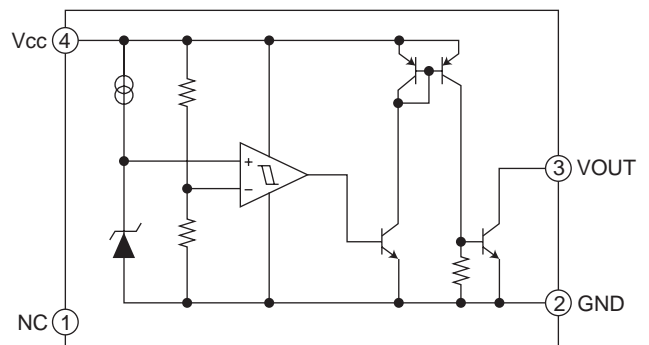
No.	Pin Name	Function
1	Vout	Reset Signal Output PIN
2	VDD	VDD PIN / Voltage Detect PIN
3	NC	Non connect
4	VSS	VSS PIN

4.11 IC-PST9333U-X (IC702) : Regulator

- Pin layout



- Block diagram

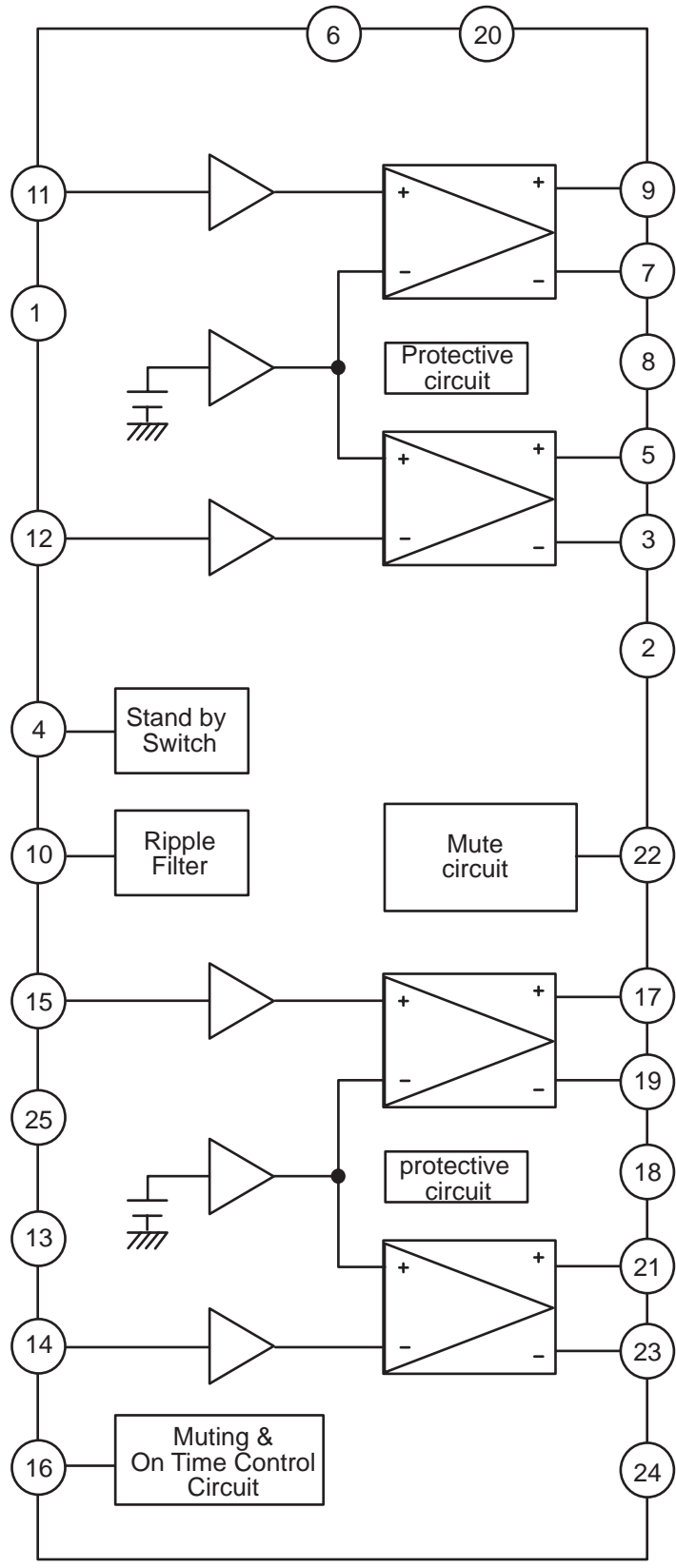


- Pin function

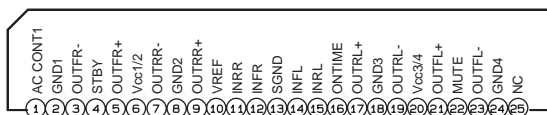
Pin No.	Symbol	Function
1	NC	Non connect
2	GND	GND terminal
3	VOUT	Reset signal output terminal
4	Vcc	Vcc terminal/Voltage detect terminal

4.12 LA47505 (IC951) : Power amp.

- Block diagram



- Pin layout

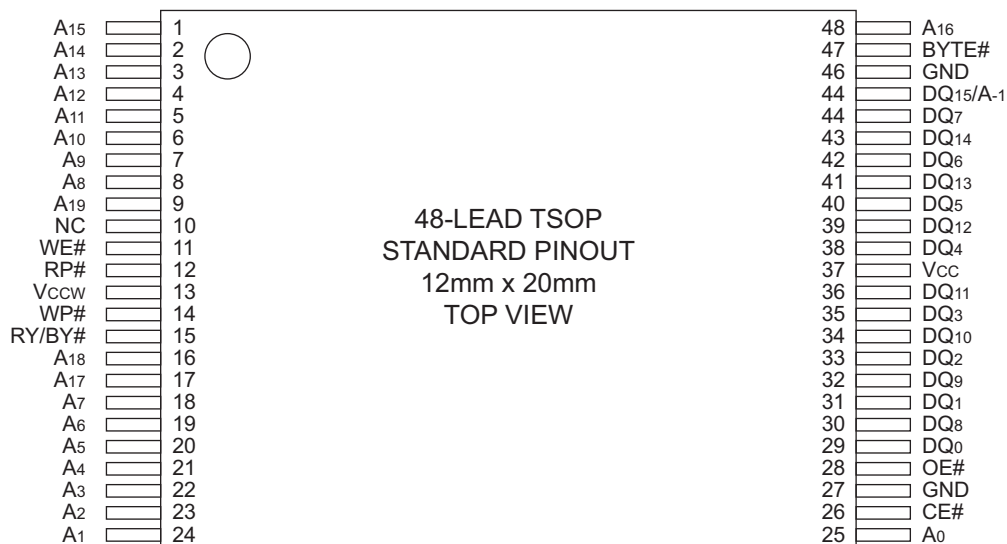


- Pin function

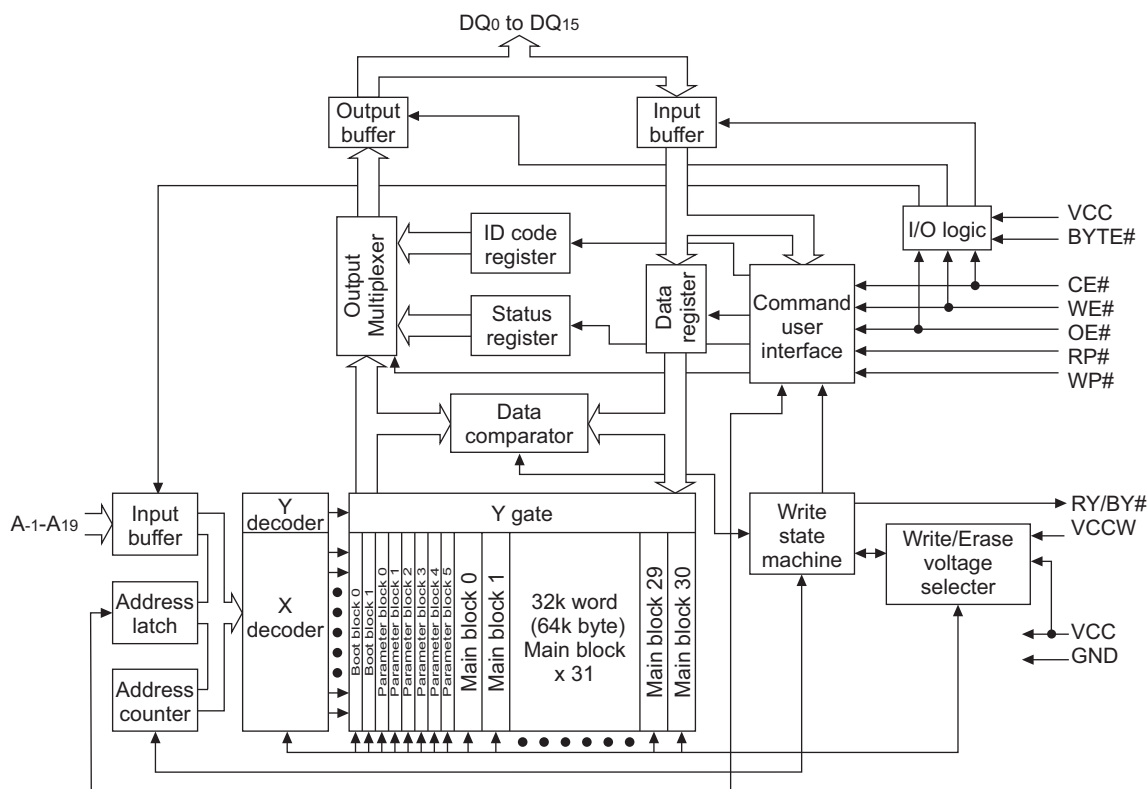
Pin No.	Symbol	Function
1	AC CONT1	Header of IC
2	GND1	Power GND
3	OUTFR-	Output(-) for front Rch
4	STBY	Stand by input
5	OUTFR+	Output (+) for front Rch
6	Vcc1/2	Power input
7	OUTRR-	Output (-) for rear Rch
8	GND2	Power GND
9	OUTRR+	Output (+) for rear Rch
10	VREF	Ripple filter
11	INRR	Rear Rch input
12	INFR	Front Rch input
13	SGND	Signal GND
14	INFL	Front Lch input
15	INRL	Rear Lch input
16	ONTIME	Power on time control
17	OUTRL+	Output (+) for rear Lch
18	GND3	Power GND
19	OUTRL-	Output (-) for rear Lch
20	Vcc3/4	Power input
21	OUTFL+	Output (+) for front
22	MUTE	Muting control input
23	OUTFL-	Output (-) for front
24	GND4	Power GND
25	NC	No connection

4.13 LH28F160BJHET92 (IC802) : 16M flash memory

- Pin layout



- Block diagram

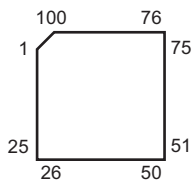


• Pin function

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
	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

4.14 MN102H60KCG (IC801) : LCD display sub CPU

- Pin layout



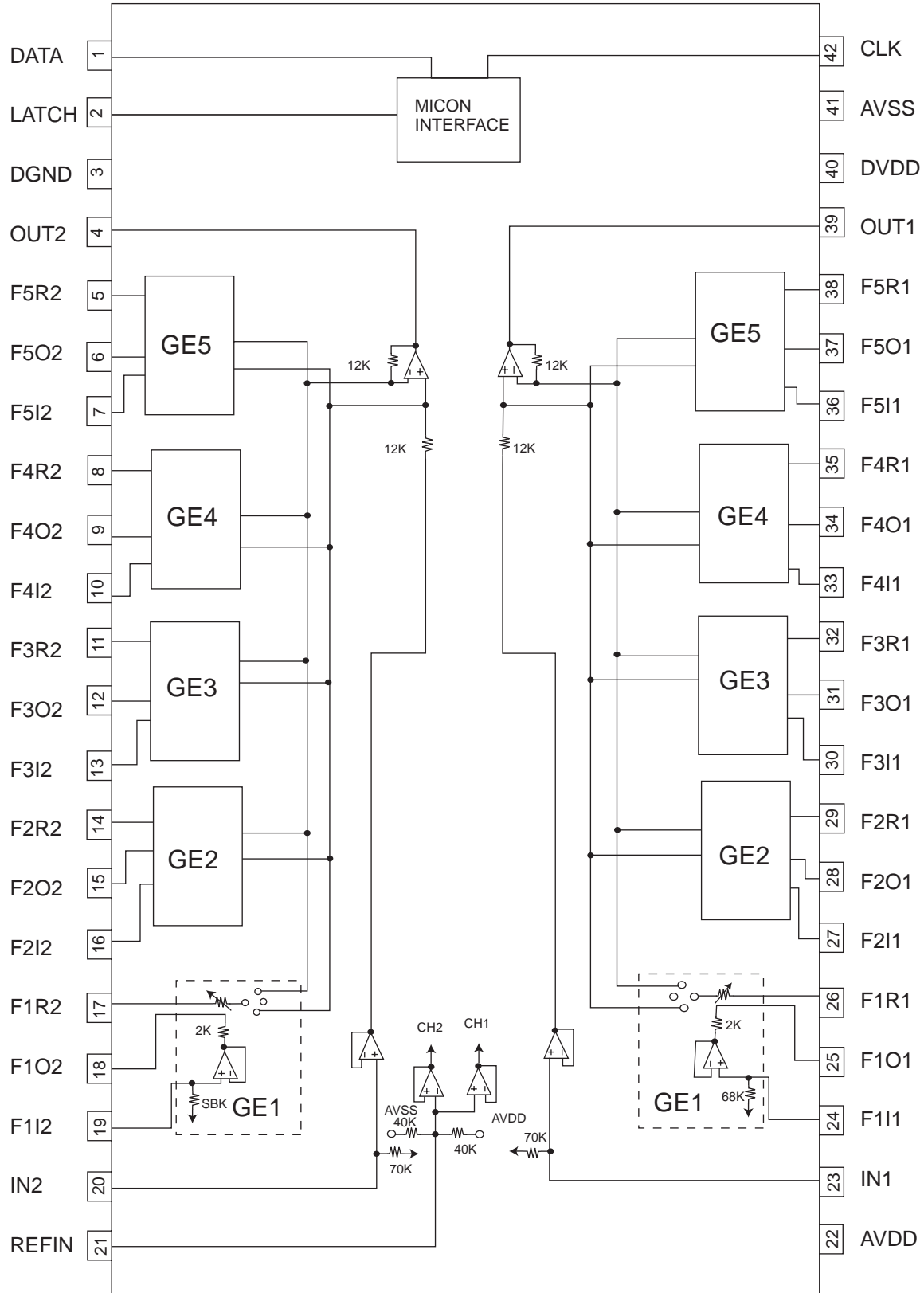
- Pin function

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	CS1	O	Chip select1 output for extension memory
7	NC	O	Not use
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	O	Not use
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	Base clock output
19	GND	-	Ground
20	XI	I	Connect to ground
21	NC	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	VREF-	-	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 use
54	VREF+	-	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	O	Not use
58	VOL1	I	Rotary encoder input 1
59	VOL2	I	Rotary encoder input 2
60	NC	-	Not use
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

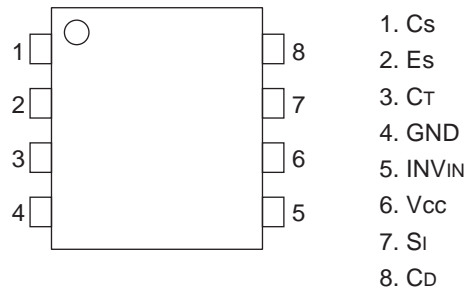
4.15 M62449FP-X (IC912) : Equalizer

- Pin layout

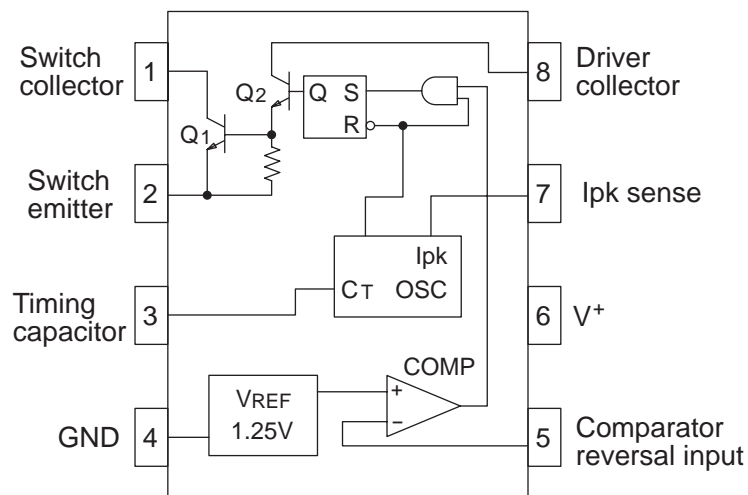


4.16 NJM2360AM-X (IC921) : DC-DC convertor

- Pin layout

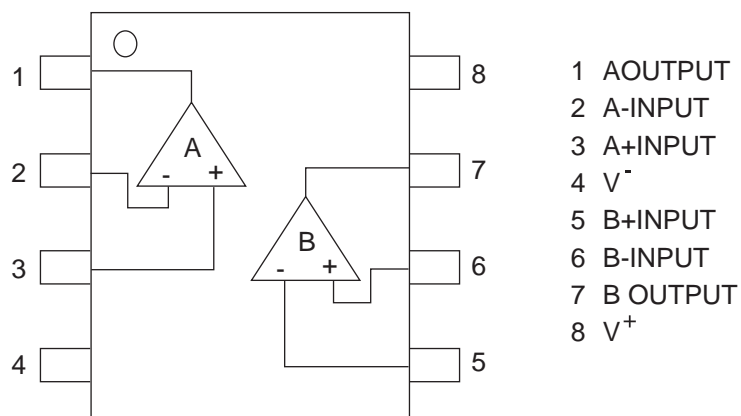


- Block diagram



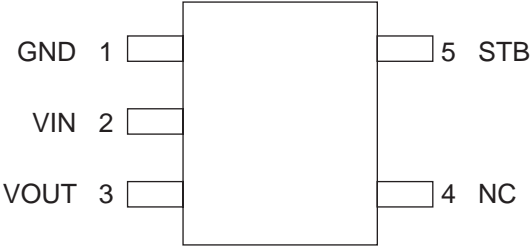
4.17 NJM4565V-X (IC132, IC572) : Dual operational amplifier

- Pin layout & Block diagram

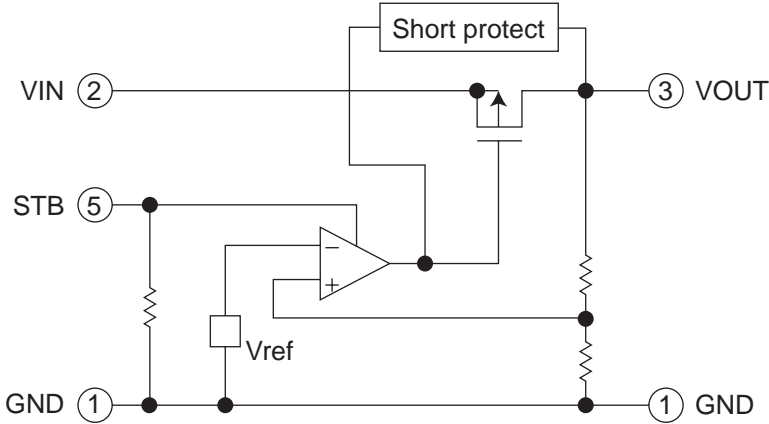


4.18 NJU7241F25-X (IC651) : Regulator

• Pin layout

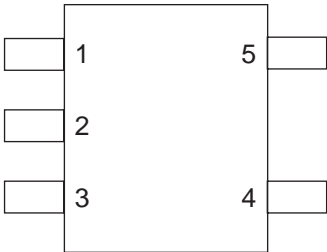


• Block diagram



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

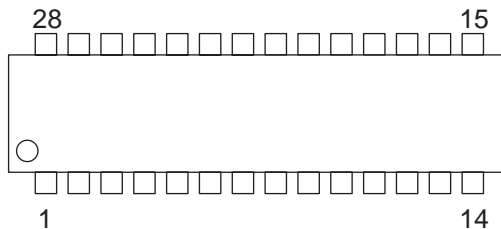
• Pin layout



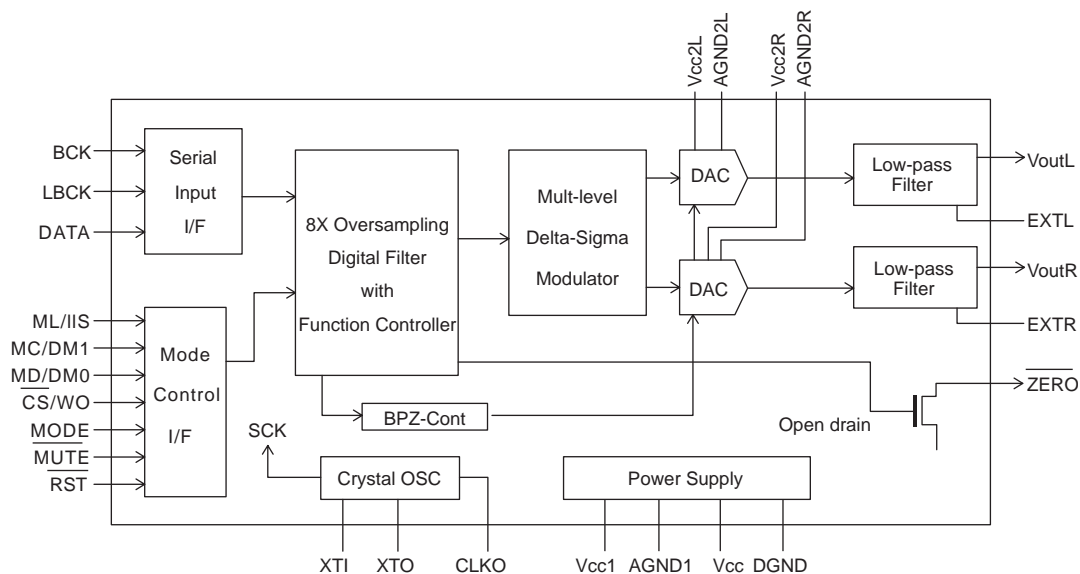
- PIN FUNCTION
- 1. GND
 - 2. VIN
 - 3. VOUT
 - 4. +NC
 - 5. STB

4.20 PCM1716E-X (IC571) : D/A converter

- Pin layout



- Block diagram



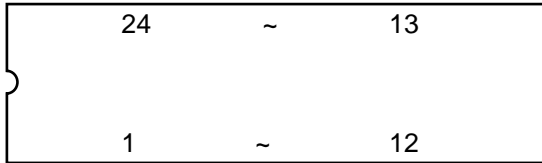
- Pin function

Pin No.	Symbol	I/O	Function
1	LRCK	I	LRCK clock input
2	DATA	I	Serial audio data input
3	BCK	I	Bit clock input for serial audio data
4	CLKO	O	Buffered output of system clock
5	XTI	I	Oscillator input / External clock input
6	XTO	O	Oscillator output
7	DGND	-	Digital ground
8	VDD	-	Digital power +5V
9	VDD2R	-	Analog power +5V
10	AGND2R	-	Analog ground
11	EXTR	O	Rch common pin of analog output amp
12	NC	-	Non connection
13	VOUTR	O	Rch analog voltage output of audio signal
14	AGND1	-	Analog ground
15	Vcc1	-	Analog power +5V

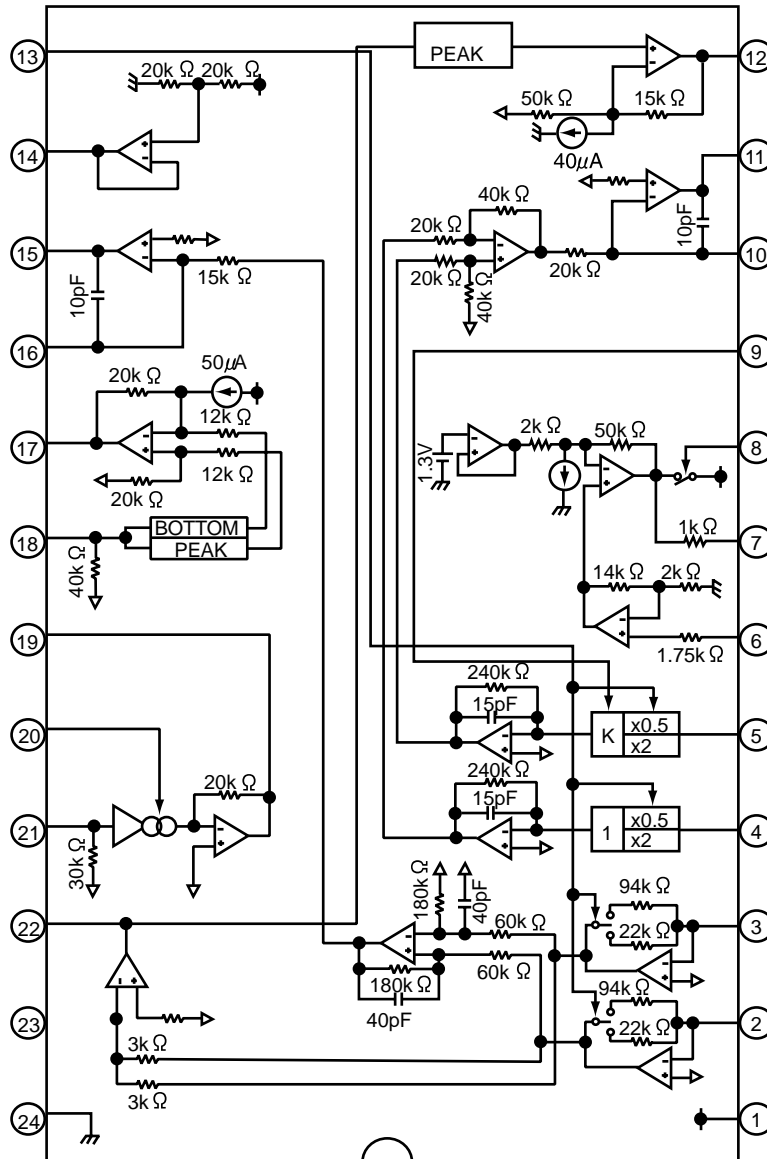
Pin No.	Symbol	I/O	Function
16	VOUTL	O	Lch analog voltage output of audio signal
17	NC	-	Non connection
18	EXTL	O	Lch common pin of analog output amp
19	AGND2L	-	Analog ground
20	Vcc2L	-	Analog power +5V
21	ZERO	O	Zero data flag
22	RST	I	Reset
23	CS/IWO	I	Chip select / Input format selection
24	MODE	I	Mode control select
25	MUTE	I	Mute control
26	MD/DM0	I	Mode control, Data / De-emphasis selection 1
27	MC/DM1	I	Mode control, BCK / De-emphasis selection 2
28	ML/IIS	I	Mode control, WDCK / Input format selection

4.21 TA2157FN-X (IC601) : RF amp

- Pin layout



- Block diagram



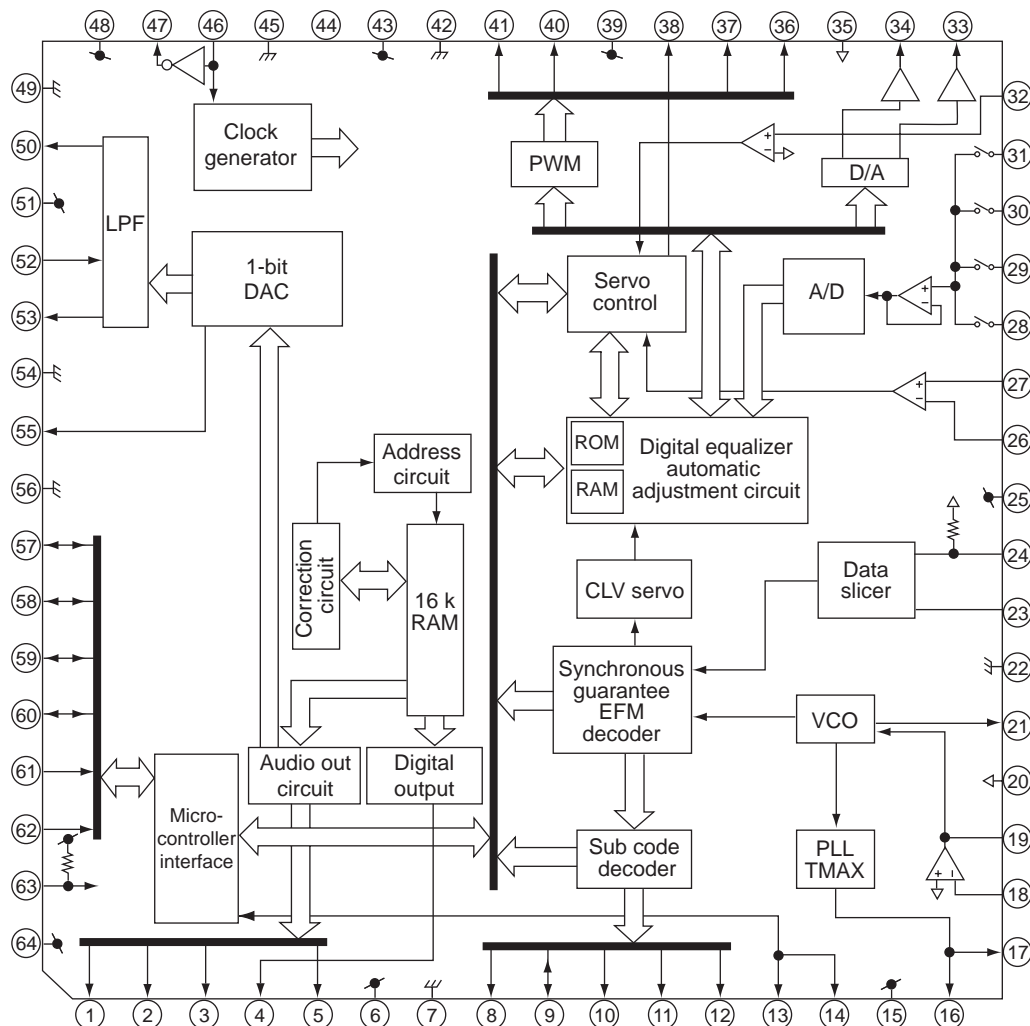
PIN	SEL (APC SW)	TEB (TE BAL)	RFGC (AGC Gian)	TEB (TE BAL)
VCC	APC ON	-50%	+12dB	Normal mode (0dB)
HiZ	APC ON	0%	+6dB	Normal mode (0dB)
GND	APC OFF (LDO=H)	50%	0dB	CD-RW mode (+12dB)

• Pin function

Pin No.	Symbol	I/O	Function												
1	VCC	-	3.3V power supply pin												
2	FNI	I	Main-beam amp input pin												
3	FPI	I	Main-beam amp input pin												
4	TPI	I	Sub-beam amp input pin												
5	TNI	I	Sub-beam amp input pin												
6	MDI	I	Monitor photo diode amp input pin												
7	LDO	O	Laser diode amp output pin												
8	SEL	I	APC circuit ON/OFF control signal, laser diode (LDO) control signal input or bottom/peak detection frequency change pin. <table border="1" data-bbox="703 552 1297 726"> <tr> <td>SEL</td> <td>APC circuit</td> <td>LDO</td> </tr> <tr> <td>GND</td> <td>OFF</td> <td>Connected VCC through 1kΩ resistor</td> </tr> <tr> <td>Hiz</td> <td>ON</td> <td>Control signal output</td> </tr> <tr> <td>VCC</td> <td>ON</td> <td>Control signal output</td> </tr> </table>	SEL	APC circuit	LDO	GND	OFF	Connected VCC through 1kΩ resistor	Hiz	ON	Control signal output	VCC	ON	Control signal output
SEL	APC circuit	LDO													
GND	OFF	Connected VCC through 1kΩ resistor													
Hiz	ON	Control signal output													
VCC	ON	Control signal output													
9	TEB	I	Tracking error balance adjustment signal input pin Adjusts TE signal balance by eliminating carrier component from PWM signal (3-state output, PWM carrier = 88.2kHz) output from TC94A14F/FA TEBC pin using RC-LPF and inputting DC. TEBC input voltage:GND~VCC												
10	TEN	I	Tracking error signal generation amp negative-phase input pin												
11	TEO	O	Tracking error signal generation amp output pin. Combining TEO signal RFRP signal with TC94A14F/FA configures tracking search system.												
12	RFDC	O	RF signal peak detection output pin												
13	GVSW	I	AGC/FE/TE amp gain change pin <table border="1" data-bbox="886 1098 1110 1272"> <tr> <td>GVSW</td> <td>Mode</td> </tr> <tr> <td>GND</td> <td>CD-RW</td> </tr> <tr> <td>Hiz</td> <td>Normal</td> </tr> <tr> <td>VCC</td> <td></td> </tr> </table>	GVSW	Mode	GND	CD-RW	Hiz	Normal	VCC					
GVSW	Mode														
GND	CD-RW														
Hiz	Normal														
VCC															
14	VRO	O	Reference voltage (VRO) output pin *VRO=1/2VCC When VCC=3.3V												
15	FEO	O	Focus error signal generation amp output pin												
16	FEN	I	Focus error signal generation amp negative-phase input pin												
17	RFRP	O	Signal amp output pin for track count Combining RFRP signal and TEO signal with TC94A14F/FA configures tracking search system.												
18	REIS	I	RF signal amplitude adjustment amp output pin RF amplitude adjustment control signal input pin Adjusts RF signal amplitude by eliminating carrier component from PWM signal (3-state output, PWM carrier=88.2kHz)output fromTC94A14F/14FA *RFGC pin using RC-LPF and inputting DC. *RFGC input voltage:GND~VCC												
19	RFGO	O													
20	RFGC	I													
21	AGCIN	I	RF signal amplitude adjustment amp input pin												
22	RFO	O	RF signal generation amp output pin												
23	RFI	I	RF signal generation amp input pin												
24	GND	-	GND pin												

4.22 TC94A14FA (IC621) : DSP & DAC

• Pin layout & Block diagram



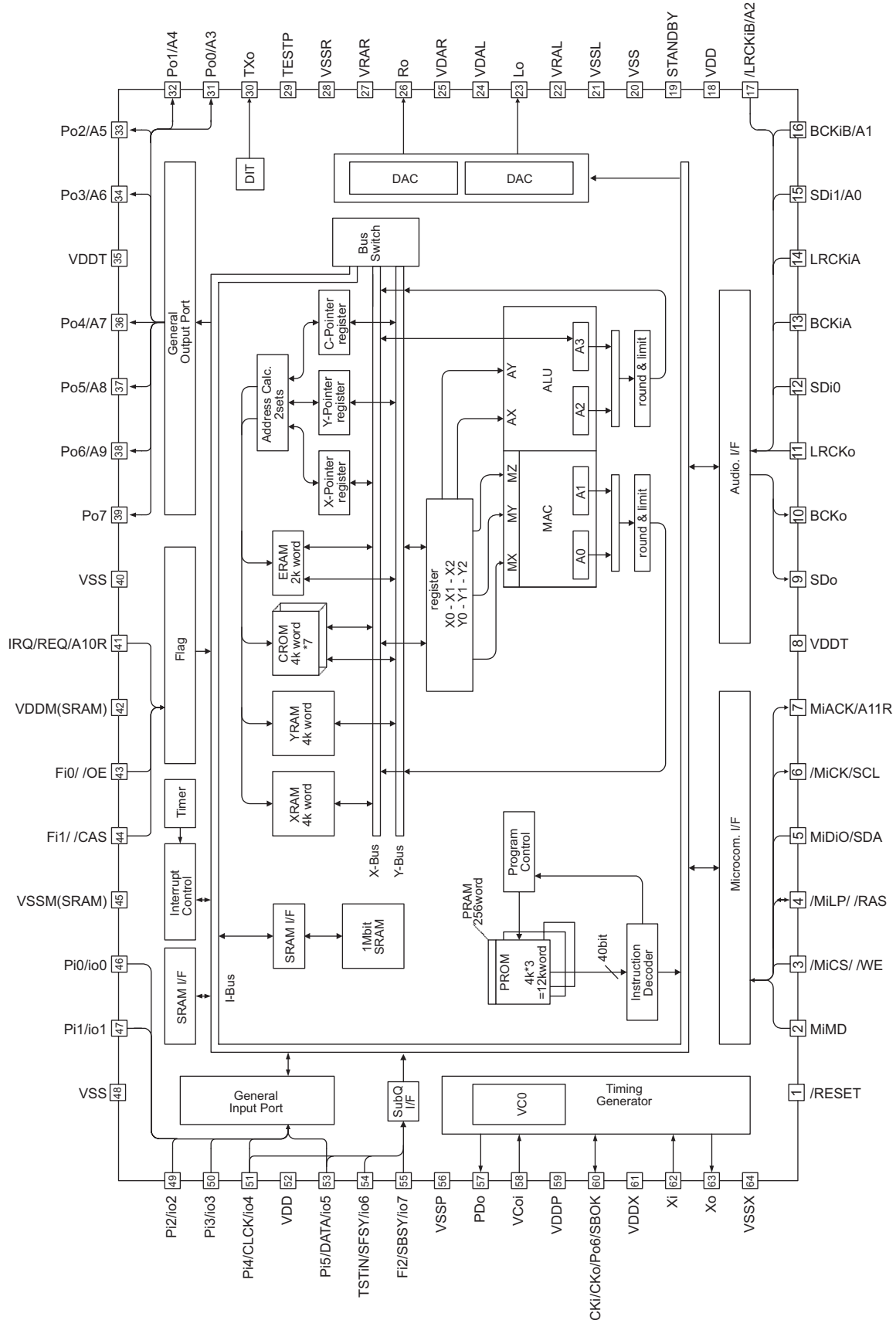
• Pin function

Pin No	Symbol	I/O	Description
1	BCK	O	Bit clock output pin. 32fs, 48fs, or 64fs selectable by command.
2	LRCK	O	L/R channel clock output pin. "L" for L channel and "H" for R channel. Output polarity can be inverted by command.
3	AOUT	O	Audio data output pin. MSB-first or LSB-first selectable by command.
4	DOUT	O	Digital data output pin. Outputs up to double-speed playback.
5	IPF	O	Correction flag output pin. When set to "H", AOUT output cannot be corrected by C2 correction processing.
6	V _{DD3}	-	Digital 3.3V power supply voltage pin.
7	V _{SS3}	-	Digital GND pin.
8	SBOK	O	Subcode Q data CRCC result output pin. "H" level when result is OK.
9	CLCK	O	Subcode P-W data read I/O pin. I/O polarity selectable by command.
10	DATA	O	Subcode P-W data output pin.
11	SFSY	O	Playback frame sync signal output pin.
12	SBSY	O	Subcode block sync signal output pin. "H" level at S1 when subcode sync is detected.
13	HSO	I/O	General-purpose input / output pins. Input port at reset.
14	UHSO		
15	PV _{DD3}	-	PLL-only 3.3V power supply voltage pin.
16	PDO	O	EFM and PLCK phase difference signal output pin.

Pin No	Symbol	I/O	Description	
17	TMAX	O	TMAX detection result output pin.	
			TMAX Detection Result	TMAX Output
			Longer than fixed period	"PVDD3"
			Within fixed period	"HiZ"
Shorter than fixed period	"AVSS3"			
18	LPFN	I	Inverted input pin for PLL LPF amp.	
19	LPFO	O	Output pin for PLL LPF amp.	
20	PVREF	-	PLL-only VREF pin.	
21	VCOF	O	VCO filter pin.	
22	AVSS3	-	Analog GND pin.	
23	SLCO	O	DAC output pin for data slice level generation.	
24	RFI	I	RF signal input pin. Zin selectable by command.	
25	AVDD3	-	Analog 3.3V power supply voltage pin.	
26	RFCT	I	RFRP signal center level input pin.	
27	RFZI	I	RFRP signal zero-cross input pin.	
28	RFRP	I	RF ripple signal input pin.	
29	FEI	I	Focus error signal input pin.	
30	SBAD	I	Sub-beam adder signal input pin.	
31	TEI	I	Tracking error input pin. Inputs when tracking servo is on.	
32	TEZI	I	Tracking error signal zero-cross input pin.	
33	FOO	O	Focus equalizer output pin.	
34	TRO	O	Tracking equalizer output pin.	
35	VREF	-	Analog reference power supply voltage pin.	
36	RFGC	O	RF amplitude adjustment control signal output pin.	
37	TEBC	O	Tracking balance control signal output pin.	
38	SEL	O	APC circuit ON/OFF signal output pin. At laser on, high impedance with UHS="L", H output with UHS="H".	
39	AVDD3	-	Analog 3.3V power supply voltage pin.	
40	FMO	O	Feed equalizer output pin.	
41	DMO	O	Disc equalizer output pin.	
42	VSS3	-	Digital GND pin.	
43	VDD3	-	Digital 3.3V power supply voltage pin.	
44	TESIN	I	Test input pin. Normally, fixed to "L".	
45	XVSS3	-	System clock oscillator GND pin.	
46	XI	I	System clock oscillator input pin.	
47	XO	O	System clock oscillator output pin.	
48	XVDD3	-	System clock oscillator 3.3V power supply voltage pin.	
49	DVSS3R	-	DA converter GND pin.	
50	RO	O	R-channel data forward output pin.	
51	DVDD3	-	DA converter 3.3V power supply pin.	
52	DVR	-	Reference voltage pin.	
53	LO	O	L-channel data forward output pin.	
54	DVSS3L	-	DA converter GND pin.	
55	ZDET	O	1 bit DA converter zero detection flag output pin.	
56	VSS5	-	Microcontroller interface GND pin.	
57	BUS0			
58	BUS1			
59	BUS2	I/O	Microcontroller interface data I/O pins.	
60	BUS3			
61	BUCK	I	Microcontroller interface clock input pin.	
62	/CCE	I	Microcontroller interface chip enable signal input pin. At "L", BUS0 to BUS3 are active.	
63	/RST	I	Reset signal input pin. At reset, "L".	
64	VDD5	-	Microcontroller interface 5V power supply pin.	

4.23 TC94A20F-008 (IC652) : Audio digital processor with DAC and SRAM

- Pin layout & Block diagram



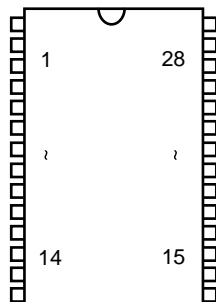
• Pin function

Pin No.	Symbol	I/O	Function
1	/RESET	I	Hard reset input (H:Operation L: Reset)
2	MiMD	I	Mode select input for MCU interface (H:IIC L:Serial)
3	/MiCS	I	Chip select input for MCU interface
	/WE	O	Write-enable for external DRAM
4	/MiLP	I	Latch pulse input for MCU interface
	/RAS	O	Low address strobe for external DRAM
5	MiDio	I/O	Data input and output for MCU interface (IIC:SDA)
6	/MiCK	I	Clock input for MCU interface (IIC:SCL)
7	MiACK	O	Acknowledge output for MCU interface
	A11R	O	Address output-11 for external DRAM
8	VDDT	-	Power supply for digital circuit (3.3V)
9	SDo	O	Data output
10	BCKo	O	Bit clock output
11	LRCKo	O	LR clock output
12	SDi0	I	Data input-0
13	BCKiA	I	Bit clock input-A
14	LRCKiA	I	LR clock input-A
15	SDi1	I	Data input-1 (Address output-5 for external SRAM)
	A0	O	Address output-1 for external DRAM
16	BCKiB	I	Bit clock input-B
	A1	O	External DRAM address output-1
17	LRCKiB	I	LR clock input-B (Enable signal output for external SRAM)
	A2	O	Address-2 for external DRAM
18	VDD	-	Power supply for digital circuit (2.5V)
19	STANBY	I	Control input for stand-by mode (H:STB, L:Normal)
20	VSS	-	Ground for digital circuit
21	VSSL	-	Ground for DAC Lch
22	VRAL	-	Reference voltage for DAC Lch
23	LO	O	DAC Lch output
24	VDAL	-	Power supply for DAC Lch (2.5V)
25	VDAR	-	Power supply for DAC Rch (2.5V)
26	RO	O	DAC Rch output
27	VRAR	-	Reference voltage for DAC Rch
28	VSSR	-	Ground for DAC Rch
29	TESTP	I	Test terminal (H:Test mode L:Normal)
30	TXO	O	SPDIF output
31	Po0	O	General output port-0
	A3	O	Address-3 for external DRAM
32	Po1	O	General output port-1
	A4	O	Address-4 for external DRAM
33	Po2	O	General output port-2
	A5	O	Address-5 for external DRAM
34	Po3	O	General output port-3
	A6	O	Address-6 for external DRAM
35	VDDT	-	Power supply for digital circuit (3.3V)

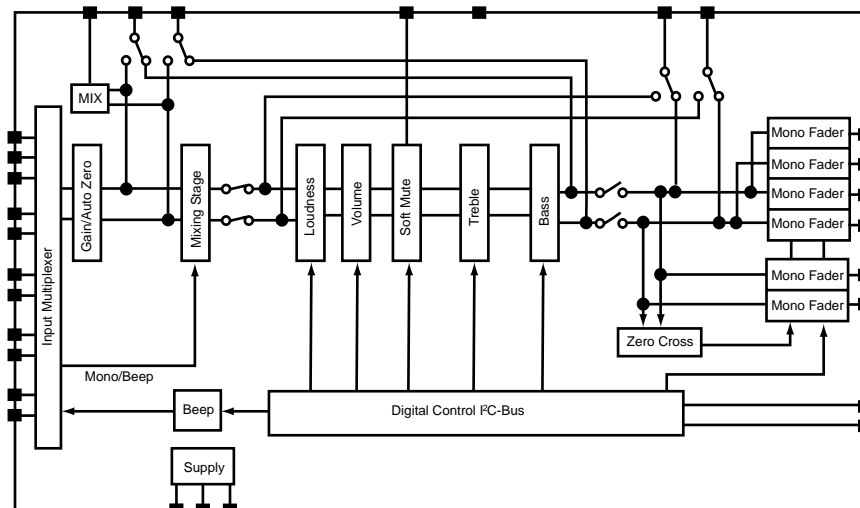
Pin No.	Symbol	I/O	Function
36	Po4	O	General output port-4
	A7	O	Address-7 for external DRAM
37	Po5	O	General output port-5 (Address output-7 for external SRAM)
	A8	O	Address-8 for external DRAM
38	Po6	O	General output port-6 (Address output-6 for external SRAM)
	A9	O	Address-9 for external DRAM
39	Po7	O	General output port-7
40	VSS	-	Ground for digital circuit
41	IRQ/REQ	I/O	Interruption input (BS I/F:REQ output)
	A11R	O	Address-11 for external DRAM
42	VDDM	-	Power supply for built-in 1Mbit SRAM (2.5V)
43	Fi0	I	Flag input-0
	/OE	O	Enable output for external up DRAM
44	Fi1	I	Flag input-1
	/CAS	O	Column address strobe for external DRAM
45	VSSM	-	Ground for built-in 1Mbit SRAM
46	Pi0	I	General input-0
	io0	I/O	Data I/O-0 for external DRAM
47	Pi1	I	General input-1
	io1	I/O	Data I/O-1 for external DRAM
48	VSS	-	Digital ground
49	Pi2	I	General input-2
	io2	I/O	Data I/O-2 for external DRAM
50	Pi3	I	General input-3
	io3	I/O	Data I/O-3 for external DRAM
51	Pi4	I	General input-4
	io4/CLCK	I/O	Data I/O-4 for external DRAM
52	VDD	-	Power supply for digital circuit (2.5V)
53	Pi5	I	General input-5
	io5/DATA	I/O	Data I/O-5 for external DRAM / SUBQ I/F data input
54	TSTiN	I	Test terminal (H or L fixed)
	io6/SFSY	I/O	Data I/O-6 for external DRAM / SUBQ I/F frame sync input
55	Fi2	I	Flag input-2
	io7/SBSY	I/O	Data I/O-7 for external DRAM / SUBQ I/F block sync input
56	VSSP	-	Ground for VCO circuit
57	Pdo	O	PLL phase detector signal output
58	Vcoi	I	VCO control voltage input
59	VDDP	-	Power supply for VCO circuit (2.5V)
60	CKi/CKo/Po6	I/O	External system clock input/clock output/general output-6
	CKo/Po6/SBOK	I/O	Clock output/general output-6/SUBQ I/F SBOK input
61	VDDX	-	Power supply for crystal oscillator (2.5V)
62	Xi	I	Crystal oscillator input
63	Xo	O	Crystal oscillator output
64	VSSX	-	Ground for crystal oscillator

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

- Pin layout

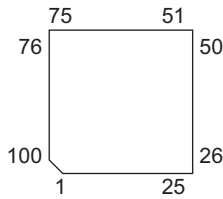


- Block diagram



4.25 TMP91CW12AF4NB1 (IC501) : CPU

- Pin layout



- Pin function

Pin No	Symbol	I/O	Function
1	VREFL	I	Reference power supply input for AD converter (L)
2	AVSS	-	Ground for AD converter (0V)
3	AVCC	-	Power supply fro AD converter
4	P70	I/O	Input/output port
	TA0IN	I	8-bit timer 0 input
5	P71	I/O	Input/output port
	TA1OUT	O	8-bit timer 1 output
6	P72	I/O	Input/output port
	TA3OUT	O	8-bit timer 3 output
7	P73	I/O	Input/output port
	TA4IN	I	8-bit timer 4 input
8	P74	I/O	Input/output port
	TA5OUT	O	8-bit timer 5 output
9	P75	I/O	Input/output port
	TA7OUT	O	8-bit timer 7 output
10	P80	I/O	Input/output port
	TB0IN0	I	16-bit timer 0 input 0
	INT5	I	Interrupt request 5
11	P81	I/O	Input/output port
	TB0IN1	I	16-bit timer 0 input 1
	INT6	I	Interrupt request 6
12	P82	I/O	Input/output port
	TB0OUT0	O	16-bit timer 0 output 0
13	P83	I/O	Input/output port
	TB0OUT1	O	16-bit timer 0 output 1
14	P84	I/O	16-bit timer 1 input 0
	TB1IN0	I	Interrupt request 7
	INT7	I	Input/output port
15	P85	I/O	16-bit timer 1 input 1
	TB1IN1	I	Interrupt request 8
	INT8	I	Input/output port
16	P86	I/O	16-bit timer 1 output 0
	TB1OUT0	O	Input/output port
17	P87	I/O	16-bit timer 1 output 1
	TB1OUT1	O	Input/output port
18	P90	I/O	Serial transmitting data 0
	TXD0	O	Input/output port
19	P91	I/O	Serial receiving data0
	RXD0	I	Input/output port
20	P92	I/O	Serial clock input/output 0
	SCLK0	I/O	Serial data transmitting possibility 0 (Clear to Send)
	CTS0	I	Input/output port
21	P93	I/O	Serial transmitting data 1
	TXD1	O	Input/output port

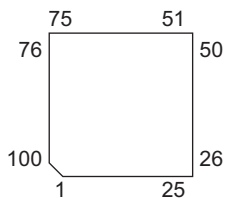
Pin No	Symbol	I/O	Function
22	P94	I/O	Serial receiving data 1
	RX1	I	Serial receiving data 1
23	P95	I/O	Input/output port
	SCLK1	I/O	Serial clock input/output 1
	CTS1	I	Serial data transmitting possibility 1 (Clear to Send)
24	AM0	I	Action mode 0
25	DVCC	-	Power supply
26	X2	-	Crystal oscillator connecting terminal
27	DVSS	-	Ground
28	X1	-	Crystal oscillator connecting terminal
29	AM1	I	Action mode 1
30	RESET	I	Reset input
31	P96	I/O	Input/output port
	XT1	I	Low frequency generator connecting terminal
32	P97	I/O	Input/output port
	XT2	I	Low frequency generator connecting terminal
33	EMU0	O	Open
34	EMU1	O	Open
35	PA0	I/O	Input/output port
	INT1	I	Interrupt request 1
36	PA1	I/O	Input/output port
	INT2	I	Interrupt request 2
37	PA2	I/O	Input/output port
	INT3	I	Interrupt request 3
38	PA3	I/O	Input/output port
	INT4	I	Interrupt request 4
39	PA4	I/O	Input/output port
40	PA5	I/O	Input/output port
41	PA6	I/O	Input/output port
42	PA7	I/O	Input/output port
43	ALE	O	Address latch enable
44	P00	I/O	Input/output port
	AD0	I/O	Address data bus 0
45	P01	I/O	Input/output port
	AD1	I/O	Address data bus 1
46	P02	I/O	Input/output port
	AD2	I/O	Address data bus 2
47	P03	I/O	Input/output port
	AD3	I/O	Address data bus 3
48	P04	I/O	Input/output port
	AD4	I/O	Address data bus 4
49	P05	I/O	Input/output port
	AD5	I/O	Address data bus 5
50	P06	I/O	Input/output port
	AD6	I/O	Address data bus 6
51	P07	I/O	Input/output port
	AD7	I/O	Address data bus 7
52	P10	I/O	Input/output port
	AD8	I/O	Address data bus 8
	A8	O	Address bus 8
53	P11	I/O	Input/output port
	AD9	I/O	Address data bus 9
	A9	O	Address bus 9
54	P12	I/O	Input/output port
	AD10	I/O	Address data bus 10
	A10	O	Address bus 10

Pin No	Symbol	I/O	Function
55	P13	I/O	Input/output port
	AD11	I/O	Address data bus 11
	A11	O	Address bus 11
56	P14	I/O	Input/output port
	AD12	I/O	Address data bus 12
	A12	O	Address bus 12
57	P15	I/O	Input/output port
	AD3	I/O	Address data bus 3
	A13	O	Address bus 13
58	P16	I/O	Input/output port
	AD14	I/O	Address data bus 14
	A14	O	Address bus 14
59	P17	I/O	Input/output port
	AD15	I/O	Address data bus 15
	A15	O	Address bus 15
60	P20	I/O	Input/output port
	A0	O	Address bus 0
	A16	O	Address bus 16
61	P21	I/O	Input/output port
	A1	O	Address bus 1
	A17	O	Address bus 17
62	DVSS	-	Ground
63	NMI	I	Non mascable interrupt equest
64	DVCC	-	Power supply
65	P22	I/O	Input/output port
	A2	O	Address bus 2
	A18	O	Address bus 18
66	P23	I/O	Input/output port
	A3	O	Address bus 3
	A19	O	Address bus 19
67	P24	I/O	Input/output port
	A4	O	Address bus 4
	A20	O	Address bus 20
68	P25	I/O	Input/output port
	A5	O	Address bus 5
	A21	O	Address bus 21
69	P26	I/O	Input/output port
	A6	O	Address bus 6
	A22	O	Address bus 22
70	P27	I/O	Input/output port
	A7	O	Address bus 7
	A23	O	Address bus 23
71	P30	O	Output port
	RD	O	Read output for external memory
72	P31	O	Output port
	WR	O	Write strobe signal for AD0 to AD7 data
73	P32	I/O	Input/output port (with pull up)
	HWR	O	Write strobe signal for AD8 to AD15 data
74	P33	I/O	Input/output port (with pull up)
	WAIT	I	Bus wait request to CPU
75	P34	I/O	Input/output port (with pull up)
	BUSRQ	I	Bus request
76	P35	I/O	Input/output port (with pull up)
	BUSAK	O	Bus acknowledge
77	P36	I/O	Input/output port (with pull up)
	R/W	O	Read/Write

Pin No	Symbol	I/O	Function
78	P37	I/O	Input/output port (with pull up)
79	P40	I/O	Input/output port (with pull up)
	CS0	O	Chip select 0
80	P41	I/O	Input/output port (with pull up)
	CS1	O	Chip select 1
81	P42	I/O	Input/output port (with pull up)
	CS2	O	Chip select 2
82	P43	I/O	Input/output port (with pull up)
	CS3	O	Chip select 3
83	P60	I/O	Input/output port
	SCK	I/O	Clock input/output (SIO mode of serial bus interface)
84	P61	I/O	Input/output port
	SO	O	Data transmitting terminal (SIO mode of serial bus interface) Data transmit/receive terminal (I2C mode of serial bus interface)
	SDA	I/O	Open drain output terminal
85	P62	I/O	Input/output port
	SI	I	Data receiving terminal (SIO mode of serial bus interface) Clock input/output terminal (I2C mode of serial bus interface)
	SCL	I/O	Open drain output terminal
86	P63	I/O	Input/output port
	INT0	I	Interrupt request 0
87	P64	I/O	Input/output port
	SCOUT	O	System clock output
88	P65	I/O	Input/output port
89	DVCC	-	Power supply
90	P66	I/O	Input/output port
91	DVSS	-	Ground
92	P50	I	Input port
	AN0	I	AD converter input
93	P51	I	Input port
	AN1	I	AD converter input
94	P52	I	Input port
	AN2	I	AD converter input
95	P53	I	Input port
	AN3	I	AD converter input
	ADTRG	I	External start request for AD converter
96	P54	I	Input port
	AN4	I	AD converter input
97	P55	I	Input port
	AN5	I	AD converter input
98	P56	I	Input port
	AN6	I	AD converter input
99	P57	I	Input port
	AN7	I	AD converter input
100	VREFH	I	Reference power supply input for AD converter (H)

4.26 UPD784217AGC205 (IC701) : CPU

• Pin layout



• Pin function

Pin No.	Symbol	I/O	Function
1 to 7	NC	-	Not use
8	ANT CONT	-	Antenna remote control
9	VDD	-	Power supply
10	X2	-	
11	X1	-	
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	I	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	NC	-	Not use
30	MRC	I	MRC input
31	SQ	I	Not use, pull down
32	SM	I	S.METER input
33	AVSS	-	Ground
34	NC	-	Not use
35	STAGE3	I	Feature selection, pull up
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

Pin No.	Symbol	I/O	Function
46	E2PROM-DO	O	I2C data output
47	E2PROM-CLK	O	I2C clock output
48	OPEN	I	DOOR OPEN SW
49	DETACH	I	Detach detect input; H means detaching
50	NC	-	Not use
51 to 53	NC	-	Not use
54	EQ-CLK	O	Clock output for e-EQ IC
55	EQ-DA	O	Data output for e-EQ IC
56	EQ-LA	O	Latch output for e-EQ IC
57 to 59	NC	-	Not use
60	RDS DA	I	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	O	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	CD-ON	-	Not use
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	LINE SEL	I	Feature selection H: line input (U57:not support), L: support
81	VDD	-	Power supply
82	NC	-	Not use
83	VOL-DA	O	Data output for e-vol IC
84	VOL-CLK	O	Clock output for e-vol IC
85	WOOFER SEL	I	Feature selection H:support L:Not support
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 to 93	NC	-	Not use
94	TEST		For rewriting flash memory
95 to 100	NC	-	Not use



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(No.49838)

PARTS LIST

[KD-LH3150,KD-LH3100]

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

KD-LH3150	
Area suffix	
J -----	U.S.A.
C -----	Canada

KD-LH3100	
Area suffix	
J -----	U.S.A.

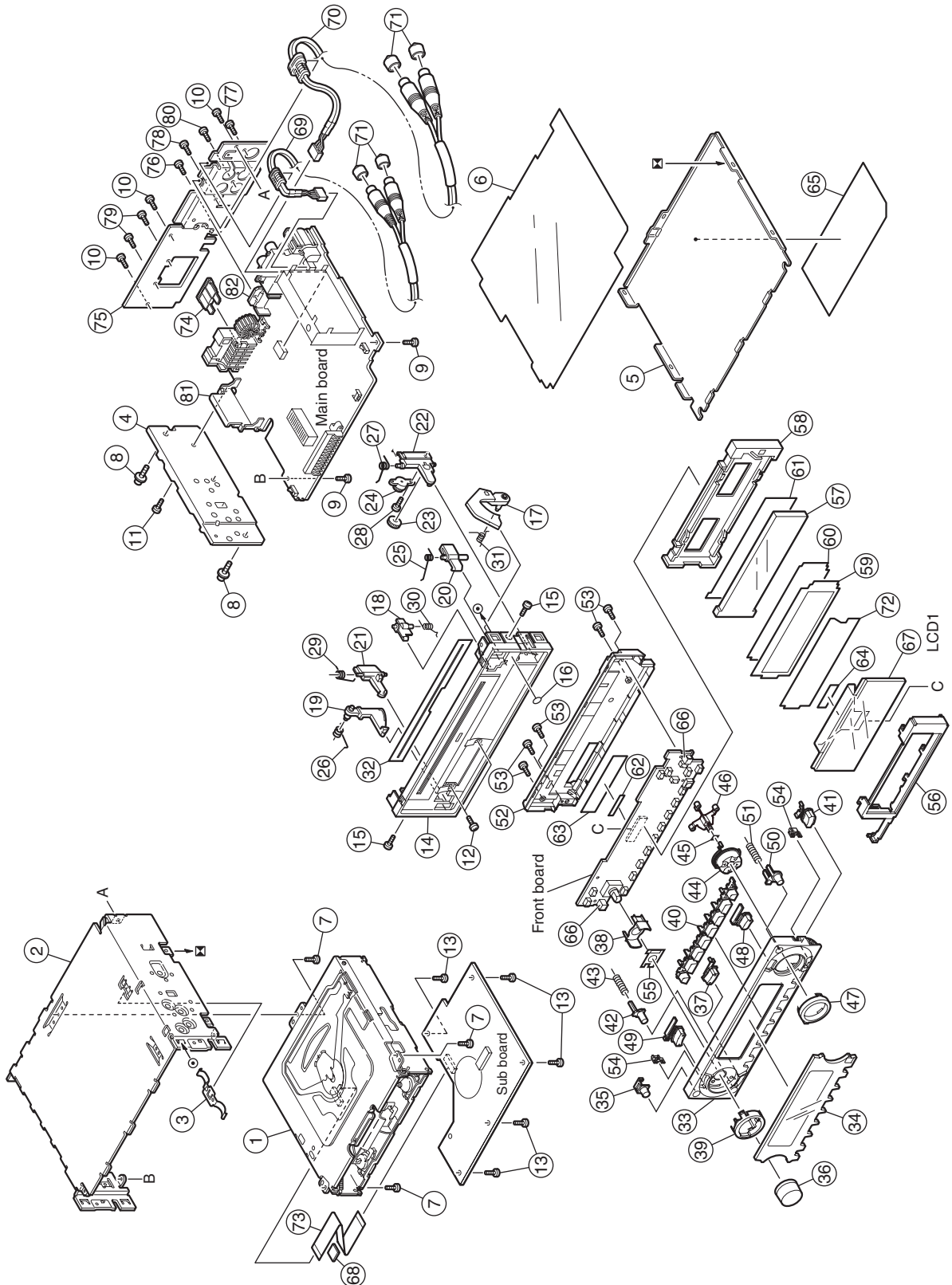
- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3-2
CD mechanism assembly and parts list (Block No.MB)	3-4
Electrical parts list (Block No.01~03)	3-6
Packing materials and accessories parts list (Block No.M3)	3-14

Exploded view of general assembly and parts list

Block No.

M	1	M	M
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General assembly

Block No. [M][1][M][M]					△ Symbol No.	Part No.	Part Name	Description	Local
△ Symbol No.	Part No.	Part Name	Description	Local					
1	-----	CD MECHA			65	GE30783-001A	NAME PLATE		LH315 OC,LH 3150J
2	GE10043-210A	TOP CHASSIS			66	GE30857-001A	LED HOLDER	(x2)	
3	GE40135-001A	EARTH PLATE			67	QLD0232-001	LCD MODULE		
4	GE30938-003A	HEAT SINK			68	VYSH101-009	SPACER		
5	GE30393-002A	BOTTOM COVER			69	QAM0419-001	CAR PLUG CORD		
6	FSMA3005-001	INSULATOR			70	QAM0447-001	L-INCABLE		LH315 OC,LH 3150J
7	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)		71	VYTA500-001	PIN CAP	(x2)	LH310 OJ
8	FSKZ4005-001	SCREW	(x2)		71	VYTA500-001	PIN CAP	(x4)	LH315 OC,LH 3150J
9	QYSDST2606Z	SCREW	2.6mm x 6mm(x2)		72	LV42894-001A	BRIGHT SHEET		
10	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)		73	QUQ105-2207AE	FFC WIRE		
11	QYSDST2610Z	SCREW	2.6mm x 10mm		△ 74	QMFZ047-150-T	FUSE	15A	
12	QYSDSF2006M	SCREW	2mm x 6mm(x2)		75	GE30912-006A	REAR BRACKET		
13	QYSDST2004Z	SCREW	2mm x 4mm(x5)		76	QYSDST2606Z	SCREW	2.6mm x 6mm	
14	GE30823-002A	F. CHASSIS ASSY			77	QYSDST2606Z	SCREW	2.6mm x 6mm	
15	QYSDST2004M	MINI SCREW	2mm x 4mm(x2)		78	QYSDST2606Z	SCREW	2.6mm x 6mm	
16	FSYH4036-046	SHEET			79	QYSDSF2606Z	SCREW	2.6mm x 6mm(x2)	
17	GE30827-001A	OPEN LEVER			80	QYSDSF2606Z	SCREW	2.6mm x 6mm	
18	GE30824-002A	LOCK LEVER(O.L)			81	GE40172-002A	IC BRACKET		
19	GE30826-001A	RELEASE LEVER			82	GE40124-001A	REG BRACKET		
20	GE30829-001A	LOCK LEVER(TOP)							
21	GE30825-001A	LOCK LEVER(L)							
22	GE30828-001A	LOCK LEVER(R)							
23	GE40154-001A	GEAR							
24	QZW0108-002	OIL DAMPER							
25	FSKW4012-002	T.SPRING							
26	VKW5264-005	T.SPRING							
27	GE40155-001A	T.SPRING							
28	QYSDSF2006M	SCREW	2mm x 6mm						
29	VKW5263-002	T.SPRING							
30	GE40157-001A	T.SPRING							
31	GE40153-001A	T.SPRING							
32	GE40156-001A	BLIND							
33	GE10061-003A	FRONT PANEL		LH310 OJ					
33	GE10061-004A	FRONT PANEL		LH315 OC,LH 3150J					
34	GE30917-002A	FINDER ASSY		LH310 OJ					
34	GE30917-009A	FINDER ASSY		LH315 OC					
34	GE30917-001A	FINDER ASSY		LH315 OJ					
35	GE30832-001A	POWER BUTTON							
36	GE30856-001A	KNOB							
37	GE30859-001A	SEL BUTTON							
38	GE30834-001A	RIM LENS							
39	GE30836-001A	RIM COVER(L)							
40	GE20152-001A	PRESET BUTTON							
41	GE30838-004A	CD BTN							
42	GE30934-001A	DETACH BUTTON							
43	GE30999-001A	COMP.SPRING							
44	GE30835-001A	NAVIGATION BTN							
45	FSYH4036-013	SHEET							
46	GE30937-002A	NAVI BASE							
47	GE30858-001A	RIM COVER(R)							
48	GE30860-001A	FM/AM BTN							
49	GE30861-002A	EQ BTN							
50	GE30914-002A	EJECT BUTTON							
51	VKW3001-330	COMP.SPRING							
52	GE10062-003A	REAR COVER							
53	VKZ4777-001	MINI SCREW	(x5)						
54	GE40158-001A	SIDE LENS	(x2)						
55	GE40174-001A	INSULATOR							
56	GE30837-001A	LCD CASE							
57	LV42850-002A	L.C.D.LENS							
58	LV33404-001A	LIGHT CASE							
59	LV42884-001A	LENS FILTER							
60	LV42995-001A	LENS FILTER							
61	LV42955-002A	LENS SHEET							
62	LV43084-001A	DOUBLE FACE							
63	LV40848-034A	SPACER							
64	LV40846-036A	SPACER							
65	GE30777-001A	NAME PLATE		LH310 OJ					

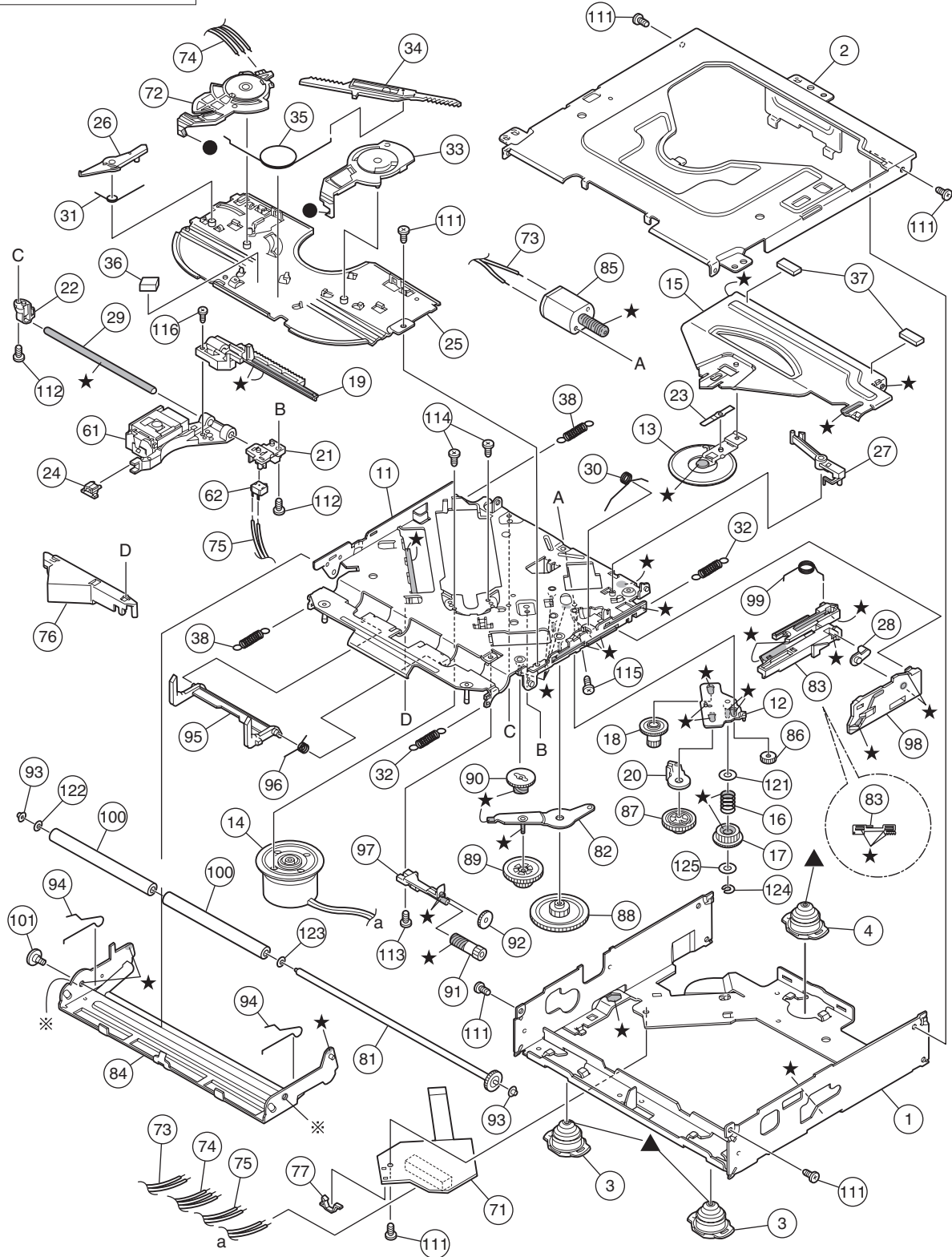
CD mechanism assembly and parts list

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	△ Symbol No.	Part No.	Part Name	Description	Local
IC131	BU4066BCFV-X	IC			D941	UDZS11B-X	Z DIODE		
IC132	NJM4565V-X	IC			D942	1SS355-X	SI DIODE		
					D951	1SS355-X	SI DIODE		
IC281	BA3220FV-X	IC	LH315 0C,LH 3150J		C1	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
					C2	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C3	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
IC301	BA3220FV-X	IC	LH315 0C,LH 3150J		C4	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
					C6	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
IC701	UPD784217AGC205	IC			C7	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
IC702	IC-PST9333U-X	IC			C10	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
IC703	BR24L16F-W-X	IC			C25	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
IC781	HD74HC126FP-X	IC			C27	QERF1HM-104Z	E CAPACITOR	0.1uF 50V M	
IC901	HA13164A	IC			C101	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
IC911	TDA7404D-X	IC			C102	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
IC912	M62449FP-X	IC			C103	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
IC921	NJM2360AM-X	IC			C104	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
IC951	LA47505	IC			C110	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
					C115	NFV81CM-105X	TS E. CAPACITOR	1uF 16V M	
Q1	2SB624/4/-X	TRANSISTOR			C116	NFV81CM-105X	TS E. CAPACITOR	1uF 16V M	
Q2	UN2211-X	TRANSISTOR			C117	NCB31HK-331X	C CAPACITOR	330pF 50V K	
Q3	2SB624/4/-X	TRANSISTOR			C118	NCB31HK-331X	C CAPACITOR	330pF 50V K	
Q121	2SD1781K/QR/-X	TRANSISTOR			C120	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
Q122	2SD1781K/QR/-X	TRANSISTOR			C122	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q131	UN2211-X	TRANSISTOR			C123	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
Q132	UN2211-X	TRANSISTOR			C124	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
Q133	2SC2412K/RS/-X	TRANSISTOR			C125	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q191	2SD601A/R/-X	TRANSISTOR			C126	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
Q221	2SD1781K/QR/-X	TRANSISTOR			C127	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q222	2SD1781K/QR/-X	TRANSISTOR			C131	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
Q701	UN2213-X	DIGI TRANSISTOR			C132	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
Q702	UN2214-X	TRANSISTOR			C133	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
Q703	UN2211-X	TRANSISTOR			C134	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
Q750	UN2211-X	TRANSISTOR			C135	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
Q751	UN2211-X	TRANSISTOR			C136	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
Q752	UN2213-X	DIGI TRANSISTOR			C137	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
Q753	UN2211-X	TRANSISTOR			C138	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
Q754	UN2211-X	TRANSISTOR			C139	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q795	UN2211-X	TRANSISTOR			C140	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
Q901	UN2111-X	TRANSISTOR			C141	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
Q902	UN2211-X	TRANSISTOR			C142	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q903	2SB709A/QR/-X	TRANSISTOR			C143	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q904	2SD601A/R/-X	TRANSISTOR			C144	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
Q941	UN2111-X	TRANSISTOR							LH315 0C,LH 3150J
Q942	UN2111-X	TRANSISTOR			C151	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
Q951	UN2211-X	TRANSISTOR							LH315 0C,LH 3150J
D1	1SS355-X	SI DIODE			C152	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
D2	1SS355-X	SI DIODE							LH315 0C,LH 3150J
D3	MA152WK-X	DIODE			C161	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
D121	MA152WA-X	DIODE							LH315 0C,LH 3150J
D131	MA152WK-X	DIODE			C162	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
D192	1SS355-X	SI DIODE							LH315 0C,LH 3150J
D193	1SS355-X	SI DIODE			C165	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
D221	MA152WA-X	DIODE							LH315 0C,LH 3150J
D701	1SS355-X	SI DIODE			C166	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
D702	1SS355-X	SI DIODE							LH315 0C,LH 3150J
D703	1SS355-X	SI DIODE							LH315 0C,LH 3150J
D704	1SS355-X	SI DIODE							LH315 0C,LH 3150J
D711	UDZS6.2B-X	Z DIODE			C181	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
D712	UDZS6.2B-X	Z DIODE			C191	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
D713	UDZS6.2B-X	Z DIODE			C192	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
D714	UDZS6.2B-X	Z DIODE			C193	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
D715	UDZS6.2B-X	Z DIODE			C194	QERF1HM-224Z	E CAPACITOR	0.22uF 50V M	
D716	UDZS6.2B-X	Z DIODE			C201	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
D717	SML-310LT/MN/-X	LED			C202	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
D718	SML-310LT/MN/-X	LED			C203	NCS31HJ-821X	C CAPACITOR	820pF 50V J	
D719	SML-310LT/MN/-X	LED			C204	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
D720	UDZS6.2B-X	Z DIODE			C210	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
D901	1N5404-TU-15	DIODE			C215	NFV81CM-105X	TS E. CAPACITOR	1uF 16V M	
D904	RB160M-30-X	SB DIODE			C216	NFV81CM-105X	TS E. CAPACITOR	1uF 16V M	
D905	RB160M-30-X	SB DIODE			C217	NCB31HK-331X	C CAPACITOR	330pF 50V K	
D921	RB160M-30-X	SB DIODE			C218	NCB31HK-331X	C CAPACITOR	330pF 50V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C224	QERF1HM-105Z	E CAPACITOR	1uF 50V M		C703	NCS31HJ-8R0X	C CAPACITOR	8pF 50V J	
C251	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	LH315	C704	NCS31HJ-270X	C CAPACITOR	27pF 50V J	
				0C,LH	C705	NCS31HJ-270X	C CAPACITOR	27pF 50V J	
				3150J	C706	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C252	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	LH315	C707	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
				0C,LH	C708	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
				3150J	C709	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C254	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M		C710	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C255	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M		C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
				LH315	C713	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C261	NCS31HJ-101X	C CAPACITOR	100pF 50V J	0C,LH	C714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
				3150J	C715	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
				LH315	C716	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C262	QERF1HM-105Z	E CAPACITOR	1uF 50V M	0C,LH	C717	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
				3150J	C751	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C263	NCB31EK-273X	C CAPACITOR	0.027uF 25V K		C752	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C264	NCB31CK-393X	C CAPACITOR	0.039uF 16V K		C753	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C265	NCB31HK-123X	C CAPACITOR	0.012uF 50V K		C755	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C266	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		C758	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C267	NCB31HK-472X	C CAPACITOR	4700pF 50V K		C769	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C268	NCB31HK-682X	C CAPACITOR	6800pF 50V K		C781	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C269	NCB31HK-182X	C CAPACITOR	1800pF 50V K		C795	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C270	NCB31HK-272X	C CAPACITOR	2700pF 50V K		C901	QEZ0625-338	E CAPACITOR	3300uF	
C271	NCB31CK-823X	C CAPACITOR	0.082uF 16V K		C902	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C272	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C903	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
				LH315	C904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C281	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	0C,LH	C905	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
				3150J	C906	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
				LH315	C907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C282	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	0C,LH	C908	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
				3150J	C910	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
				LH315	C911	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C283	QERF1CM-476Z	E CAPACITOR	47uF 16V M	0C,LH	C912	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
				3150J	C914	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
				LH315	C917	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C284	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	0C,LH	C919	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
				3150J	C920	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
				LH315	C921	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C287	QERF1AM-107Z	E CAPACITOR	100uF 10V M	0C,LH	C922	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
				3150J	C923	QERF1CM-107Z	E CAPACITOR	100uF 16V M	
C288	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C924	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C289	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C929	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
				LH315	C930	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C290	QERF1AM-107Z	E CAPACITOR	100uF 10V M	0C,LH	C941	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
				3150J	C942	QERF0JM-107Z	E CAPACITOR	100uF 6.3V M	
				LH315					LH315
C294	QERF1AM-107Z	E CAPACITOR	100uF 10V M	0C,LH	C945	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	3150J
				3150J					
C301	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	LH315	C951	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
				0C,LH	C952	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
				3150J	C953	QERF1CM-107Z	E CAPACITOR	100uF 16V M	
C302	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	LH315	C954	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
				0C,LH	C955	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
				3150J	C956	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C303	QERF1CM-476Z	E CAPACITOR	47uF 16V M	LH315	C957	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
				0C,LH	C958	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
				3150J	C959	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	LH315	C961	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
				0C,LH	C962	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
				3150J	C963	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C307	QERF1AM-107Z	E CAPACITOR	100uF 10V M	LH315	C964	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
				0C,LH	C965	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
				3150J	C966	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C308	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C967	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C309	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M		C968	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
				LH315	C969	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C310	QERF1AM-107Z	E CAPACITOR	100uF 10V M	0C,LH	C970	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
				3150J	C971	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C351	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M		C972	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C352	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M						
C361	NCB31CK-823X	C CAPACITOR	0.082uF 16V K		R1	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C362	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R2	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
C363	NCB31EK-273X	C CAPACITOR	0.027uF 25V K		R3	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
C364	NCB31CK-393X	C CAPACITOR	0.039uF 16V K		R4	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C365	NCB31HK-123X	C CAPACITOR	0.012uF 50V K		R5	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C366	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		R6	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C367	NCB31HK-472X	C CAPACITOR	4700pF 50V K		R7	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C368	NCB31HK-682X	C CAPACITOR	6800pF 50V K		R8	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C369	NCB31HK-182X	C CAPACITOR	1800pF 50V K		R9	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C370	NCB31HK-272X	C CAPACITOR	2700pF 50V K						
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K						
C702	QERF1AM-227Z	E CAPACITOR	220uF 10V M						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R10	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J						
R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R218	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	LH315 OC,LH 3150J
R30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R101	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R219	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	LH310 OJ
R102	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J						LH315
R111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R219	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	OC,LH 3150J
R113	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R114	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R221	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R115	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	LH310 OJ	R222	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
				LH315 OC,LH 3150J	R223	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R115	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		R224	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R116	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R117	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	LH315 OC,LH 3150J	R226	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
				LH315 OC,LH 3150J	R229	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R118	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		R261	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	LH315 OC,LH 3150J
				LH315 OC,LH 3150J	R282	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R119	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	LH310 OJ	R291	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
				LH315 OC,LH 3150J	R292	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R119	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		R293	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
									LH315 OC,LH 3150J
R121	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R294	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R122	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J						LH315 OC,LH 3150J
R123	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R295	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R124	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J						LH315 OC,LH 3150J
R125	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R301	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						LH315 OC,LH 3150J
R127	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		R302	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R129	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						LH315 OC,LH 3150J
R131	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R303	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R132	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						LH315 OC,LH 3150J
R133	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R304	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R134	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						LH315 OC,LH 3150J
R135	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R305	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R136	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						LH315 OC,LH 3150J
R137	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R708	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R138	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R709	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R139	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R710	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R140	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R142	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R713	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R143	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R714	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R144	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R716	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R145	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R717	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R146	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R147	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		R719	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R148	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J		R720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R149	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R721	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
				LH315 OC,LH 3150J	R722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R161	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R182	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R726	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R183	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R727	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R184	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R728	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R191	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R729	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R192	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		R730	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R193	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R731	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R194	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		R732	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R195	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		R733	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R196	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R734	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R197	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J		R735	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R201	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R736	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R202	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R737	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R739	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R213	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R742	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R214	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R743	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R215	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	LH310 OJ	R744	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
				LH315 OC,LH 3150J					
R215	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J						
R216	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
				LH315 OC,LH 3150J					
R217	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R745	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R986	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R746	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R987	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R747	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R989	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R748	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						LH315
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R990	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	OC.LH
R750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						3150J
R751	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R992	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R754	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R993	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R755	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R996	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R756	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R997	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R757	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R998	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R758	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R999	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R759	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L1	NQL114K-100X	COIL	10uH K	
R760	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L701	NQL114K-470X	INDUCITOR	47uH K	
R762	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L702	NQL114K-470X	INDUCITOR	47uH K	
R767	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L753	NQL114K-470X	INDUCITOR	47uH K	
R773	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L901	QQR1378-001	CHOKE COIL		
R774	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L921	NQLZ007-151X	COIL	150uH	
R775	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		L922	NQL114M-4R7X	COIL	4.7uH M	
R776	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R777	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		BZ795	QAN0023-001Z	BUZZER		
R778	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		CN131	QGA2006C1-04	CONNECTOR	W-B (1-4)	
R779	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J						LH315
R780	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J						OC.LH
R781	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		CN141	QGA2006F1-04	CONNECTOR	W-B (1-4)	3150J
R782	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R783	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		CN601	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
R784	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CN701	QNZ0605-001	CAR CONNECTOR		
R785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN901	QNZ0611-001	16P CONNECTOR		
R786	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		CN902	QNZ0095-001	CONNECTOR		
R787	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		J1	QNB0100-002	CAR ANT JACK		
R788	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		J121	QNN0490-001	PIN JACK		
R789	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						LH315
R790	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		PP1	QZW0010-001	STYLE PIN		OC.LH
R791	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						3150J
R792	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		S701	QSW0451-001	DETECT SW		
R793	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		S702	QSW0451-001	DETECT SW		
R795	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		S703	QSQ1A11-V06Z	TACT SW I/M		
R797	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		TU1	QAU0204-002	TUNER		
R798	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		X701	QAX0617-001Z	CRYSTAL	12.500MHz	
R799	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X702	QAX0401-001	CRYSTAL	32.768KHz	
R901	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J						
R902	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R903	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J						
R904	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R905	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R906	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R908	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J						
R909	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J						
R910	QRE142J-102X	C RESISTOR	1kΩ 1/4W J						
R911	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R912	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R913	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R914	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R915	NRSA63J-473X	MG RESISTOR	47kΩ 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	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J						
R922	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J						
R923	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J						
R924	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J						
R925	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J						
R926	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D						
R927	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D						
R928	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D						
R929	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R951	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R953	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R954	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J						
R955	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R961	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R962	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R963	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R981	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R982	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R984	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R985	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						

Front board

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

△ Symbol No.	Part No.	Part Name	Description	Local
IC801	MN102H60KCG	IC		
IC802	LH28F160BJHET92	I.C (FLASH ROM)		
IC803	IC-PST3424U-X	IC		
IC804	NJU7241F33-X	IC		
IC805	RPM6938-SV4	REMOCON RCV		
Q401	UN2211-X	TRANSISTOR		
Q402	UN2211-X	TRANSISTOR		
Q403	UN2211-X	TRANSISTOR		
Q404	UN2211-X	TRANSISTOR		
Q405	UN2211-X	TRANSISTOR		
Q406	UN2211-X	TRANSISTOR		
Q407	UN2211-X	TRANSISTOR		
Q408	2SD601A/R/-X	TRANSISTOR		
Q409	2SD601A/R/-X	TRANSISTOR		
Q410	2SD601A/R/-X	TRANSISTOR		
Q411	2SD601A/R/-X	TRANSISTOR		
Q412	2SD601A/R/-X	TRANSISTOR		
Q413	2SD601A/R/-X	TRANSISTOR		
Q414	2SD601A/R/-X	TRANSISTOR		
Q415	2SD601A/R/-X	TRANSISTOR		
Q416	2SD601A/R/-X	TRANSISTOR		
Q417	2SD601A/R/-X	TRANSISTOR		
Q418	2SD601A/R/-X	TRANSISTOR		
Q419	2SD601A/R/-X	TRANSISTOR		
Q420	2SD601A/R/-X	TRANSISTOR		
Q421	2SD601A/R/-X	TRANSISTOR		
Q422	2SD601A/R/-X	TRANSISTOR		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
Q423	2SD601A/R/-X	TRANSISTOR			C815	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
Q424	2SD601A/R/-X	TRANSISTOR			C816	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
Q425	2SD601A/R/-X	TRANSISTOR			C817	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q428	2SD601A/R/-X	TRANSISTOR			C818	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q801	2SB709A/QR/-X	TRANSISTOR			C819	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q802	2SB709A/QR/-X	TRANSISTOR			C820	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q803	2SD601A/R/-X	TRANSISTOR			C821	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
Q804	UN2111-X	TRANSISTOR			C822	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
					C823	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
D401	MA152WK-X	DIODE			C824	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
D402	SML-310LT/MN/-X	LED			C825	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
D403	SML-310LT/MN/-X	LED			C826	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
D405	SML-310LT/MN/-X	LED			C827	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
D406	SML-310LT/MN/-X	LED			C828	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
D407	SML-310LT/MN/-X	LED			C829	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	
D408	SML-310LT/MN/-X	LED			C831	NBE21VM-104X	TA E CAPACITOR	0.1uF 35V M	
D409	SML-310LT/MN/-X	LED			C832	NDC31HJ-300X	C CAPACITOR	30pF 50V J	
D410	SML-310LT/MN/-X	LED			C833	NDC31HJ-300X	C CAPACITOR	30pF 50V J	
D411	SML-310LT/MN/-X	LED			C834	NBE21CM-105X	TA E CAPACITOR	1uF 16V M	
D412	SML-310LT/MN/-X	LED			C835	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
D413	SML310BAT/JKL-X	LED							
D414	SML310BAT/JKL-X	LED			R401	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
D415	SML-310LT/MN/-X	LED			R402	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
D416	SML-310LT/MN/-X	LED			R403	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
D417	SML-310LT/MN/-X	LED			R404	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
D418	SML-310LT/MN/-X	LED			R405	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
D419	SML-310LT/MN/-X	LED			R406	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
D420	SML-310LT/MN/-X	LED			R407	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D421	SML-310LT/MN/-X	LED			R408	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D422	SML-310LT/MN/-X	LED			R409	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
D423	UDZS6.2B-X	Z DIODE			R410	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
D424	UDZS6.2B-X	Z DIODE			R411	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
D425	UDZS6.2B-X	Z DIODE			R412	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
D426	UDZS6.2B-X	Z DIODE			R413	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D427	UDZS6.2B-X	Z DIODE			R414	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D428	UDZS6.2B-X	Z DIODE			R415	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
D429	UDZS6.2B-X	Z DIODE			R416	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
D430	UDZS6.2B-X	Z DIODE			R417	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D431	UDZS6.2B-X	Z DIODE			R418	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D435	NSPB310A/WRST/	LED			R419	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D436	NSPB310A/WRST/	LED			R420	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
D451	NSCM315C-W	LED			R421	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D452	NSCM315C-W	LED			R422	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D453	NSCM315C-W	LED			R423	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D801	MA152WK-X	DIODE			R424	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
D803	1SS355-X	SI DIODE			R425	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
D804	UDZS6.2B-X	Z DIODE			R426	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
D805	UDZS6.2B-X	Z DIODE			R427	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D806	UDZS6.2B-X	Z DIODE			R428	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D807	UDZS6.2B-X	Z DIODE			R429	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D808	UDZS6.2B-X	Z DIODE			R430	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D809	UDZS6.2B-X	Z DIODE			R431	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D810	UDZS6.2B-X	Z DIODE			R432	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
D811	UDZS6.2B-X	Z DIODE			R433	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
D812	UDZS6.2B-X	Z DIODE			R434	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
					R435	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
C451	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R436	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C452	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R437	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C453	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R438	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C454	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R439	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C455	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R440	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C456	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R441	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C457	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R442	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
C458	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R443	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
C459	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R444	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
C801	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R445	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C802	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R446	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C804	NCS31HJ-471X	C CAPACITOR	470pF 50V J		R447	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C805	NCS31HJ-471X	C CAPACITOR	470pF 50V J		R452	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C806	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R453	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C807	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M		R454	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C808	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M		R455	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C809	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M		R456	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
C810	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R457	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
C811	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R471	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C812	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M		R472	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C813	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R473	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C814	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		R474	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R475	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R879	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R476	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R880	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R477	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R881	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R478	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R882	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R479	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R883	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R801	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R884	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R803	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R885	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R804	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R886	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R806	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R887	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R807	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R888	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R808	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R889	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R809	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R890	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R810	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R891	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R811	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R892	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R812	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R893	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R813	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R894	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R814	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R895	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R815	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R896	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R816	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R897	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R817	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R898	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R818	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R899	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R819	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L801	NQL114K-470X	INDUCTOR	47uH K	
R820	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		CN801	NNZ0087-001	CAR CONNECTOR		
R821	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		CN802	QGF0523F1-40W	CONNECTOR	FFC/FPC (1-40)	
R822	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		EN801	QSW0976-001	ROTARY ENCODER		
R823	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S802	NSW0066-001X	TACT SW		
R824	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		S803	NSW0066-001X	TACT SW		
R825	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		S804	NSW0066-001X	TACT SW		
R826	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		S805	NSW0066-001X	TACT SW		
R827	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S806	NSW0066-001X	TACT SW		
R828	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S807	NSW0066-001X	TACT SW		
R829	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		S808	NSW0066-001X	TACT SW		
R830	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		S809	NSW0066-001X	TACT SW		
R831	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S810	NSW0066-001X	TACT SW		
R832	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S811	NSW0066-001X	TACT SW		
R833	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S812	NSW0066-001X	TACT SW		
R834	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S813	NSW0066-001X	TACT SW		
R835	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S814	NSW0066-001X	TACT SW		
R836	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S815	NSW0066-001X	TACT SW		
R837	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S816	NSW0066-001X	TACT SW		
R838	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S817	NSW0066-001X	TACT SW		
R839	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S818	NSW0066-001X	TACT SW		
R841	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		TH801	NAD0022-103X	N THERMISTOR	10kΩ 10mW F	
R842	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		X801	NAX0586-001X	RESONATOR	25.000MHz	
R843	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J						
R844	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R845	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R846	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R847	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R848	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R849	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R850	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R851	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R852	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R853	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R854	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R855	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R856	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R857	NRSA63J-331X	MG RESISTOR	330Ω 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-473X	MG RESISTOR	47kΩ 1/16W J						
R866	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R867	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J						
R868	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R869	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R870	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J						
R871	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J						
R872	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R873	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R874	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R877	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						
R878	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J						

Sub board

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

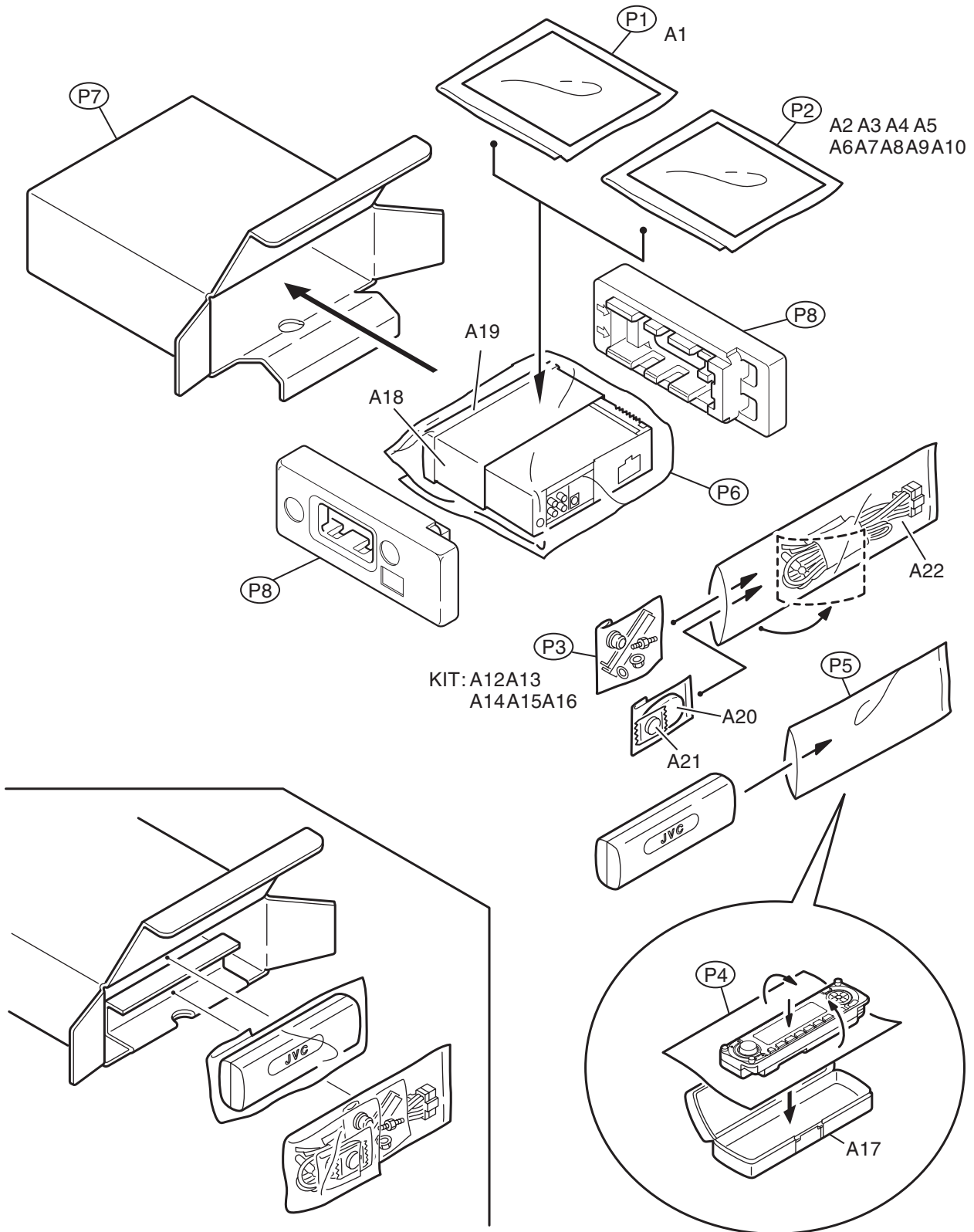
△ Symbol No.	Part No.	Part Name	Description	Local
IC501	TMP91CW12AF4R31	IC		
IC503	HD74HCT126T-X	IC		
IC504	NJU7241F33-X	IC		
IC571	PCM1716E-X	IC		
IC572	NJM4565V-X	IC		
IC601	TA2157FN-X	RF AMP IC		
IC621	TC94A14FA	CD LSI IC		
IC651	NJU7241F25-X	IC		
IC652	TC94A20F-008	IC		
IC681	BA5830FP-X	IC		
Q501	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		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
D505	1SS355-X	SI DIODE			C637	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
D506	RB160M-30-X	SB DIODE			C638	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D682	1SR154-400-X	DIODE			C639	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C640	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C641	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C503	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M		C642	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C504	NDC31HJ-270X	C CAPACITOR	27pF 50V J		C643	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C505	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C644	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C645	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C646	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C651	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C652	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C510	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C653	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C512	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M		C655	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C513	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C514	NCB31HK-102X	C CAPACITOR	1000pF 50V K		C657	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C551	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C571	NDC31HJ-100X	C CAPACITOR	10pF 50V J		C659	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C572	NDC31HJ-100X	C CAPACITOR	10pF 50V J		C660	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C573	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C661	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C574	NEAD1CM-106X	E CAPACITOR	10uF 16V M		C662	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C575	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		C663	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C576	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C664	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C577	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C665	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C578	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		C666	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C579	NEAD1CM-106X	E CAPACITOR	10uF 16V M		C667	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C580	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C668	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C581	NCS31HJ-101X	C CAPACITOR	100pF 50V J		C669	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C582	NCS31HJ-101X	C CAPACITOR	100pF 50V J		C671	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M	
C583	NCS31HJ-821X	C CAPACITOR	820pF 50V J		C672	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C584	NCS31HJ-821X	C CAPACITOR	820pF 50V J		C673	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C585	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M		C682	NEAD1CM-106X	E CAPACITOR	10uF 16V M	
C586	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M		C683	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C587	NCS31HJ-121X	C CAPACITOR	120pF 50V J		C684	NEAD1CM-476X	E CAPACITOR	47uF 16V M	
C588	NCS31HJ-121X	C CAPACITOR	120pF 50V J		C689	NEAD1CM-476X	E CAPACITOR	47uF 16V M	
C589	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M		C690	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C590	NEAD1VM-475X	E CAPACITOR	4.7uF 35V M		R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C591	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C592	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		R503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C593	NEAD1CM-476X	E CAPACITOR	47uF 16V M		R504	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C594	NCS31HJ-102X	C CAPACITOR	1000pF 50V J		R505	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C595	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C596	NCS31HJ-101X	C CAPACITOR	100pF 50V J		R507	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C597	NCS31HJ-102X	C CAPACITOR	1000pF 50V J		R508	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C598	NCS31HJ-102X	C CAPACITOR	1000pF 50V J		R509	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C601	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		R510	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C603	NEAD0JM-107X	E CAPACITOR	100uF 6.3V M		R512	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C604	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R513	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C605	NCB31HK-682X	C CAPACITOR	6800pF 50V K		R514	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C606	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		R515	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C607	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R517	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R518	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C610	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J		R519	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C611	NCS31HJ-680X	C CAPACITOR	68pF 50V J		R520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C612	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C613	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R522	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C614	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C616	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M		R524	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C621	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R525	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C622	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		R526	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C623	NCS31HJ-470X	C CAPACITOR	47pF 50V J		R528	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C624	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		R529	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C625	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R531	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C626	NCB31HK-272X	C CAPACITOR	2700pF 50V K		R532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C627	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R533	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C628	NEAD0JM-476X	E CAPACITOR	47uF 6.3V M		R534	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C629	NCB31EK-333X	C CAPACITOR	0.033uF 25V K		R535	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C630	NCB31EK-333X	C CAPACITOR	0.033uF 25V K		R536	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C631	NCS31HJ-471X	C CAPACITOR	470pF 50V J		R537	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C632	NCS31HJ-471X	C CAPACITOR	470pF 50V J		R538	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C633	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R539	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C634	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R540	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C635	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R541	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C636	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		R542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R543	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R654	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R544	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R668	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R545	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R674	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R548	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R675	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R549	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R677	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R550	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R681	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R551	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R682	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R552	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R683	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R553	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R684	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R554	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R685	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R555	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R686	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R556	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R687	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R557	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R688	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R558	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R689	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R559	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R690	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R560	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R691	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R561	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		L501	NQL114K-470X	INDUCITOR	47uH K	
R562	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J		L502	NQL114K-470X	INDUCITOR	47uH K	
R563	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		L571	NQL114K-470X	INDUCITOR	47uH K	
R564	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L572	NQL114K-470X	INDUCITOR	47uH K	
R568	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L621	NQL114K-470X	INDUCITOR	47uH K	
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L622	NQL114K-470X	INDUCITOR	47uH K	
R570	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L623	NQL114K-470X	INDUCITOR	47uH K	
R572	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L651	NQL114K-470X	INDUCITOR	47uH K	
R573	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L652	NQL114K-470X	INDUCITOR	47uH K	
R574	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		L653	NQL114K-470X	INDUCITOR	47uH K	
R581	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		B681	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	LH315 0C
R582	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		B682	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	LH315 0C
R583	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		CN501	QGB2027L1-22X	CONNECTOR	B-B (1-22)	
R584	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		CN502	QGF0501F1-08X	CONNECTOR	FFC/FPC (1-8)	
R585	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		CN601	QGF0527F2-22W	CONNECTOR	FFC/FPC (1-22)	
R586	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		TH501	NAD0022-103X	N THERMISTOR	10kΩ 10mW F	
R587	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		X501	NAX0385-001X	CRYSTAL	24.576MHZ	
R588	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		X571	NAX0375-001X	CRYSTAL	16.9344MHZ	
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						

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	GET0147-001A	INST BOOK	ENG FRE SPA	
A 2	LVT1042-002A	IMAGE CONVERTER		
A 3	GET0147-002B	INSTALL MANUAL	ENG FRE SPA	
A 4	GET0165-001A	DEMO MODE SHEET		
A 5	GET0155-001A	CAUTION SHEET		
A 6	LVT0717-001B	TROUBLE SHEET(C		
A 7	LVT1046-001A	MP3 SHEET		
A 8	BT-51018-3	WARRANTY CARD		LH310 0J
A 8	BT-51029-1	WARRANTY CARD		LH315 0J
A 9	BT-52006-2	WARRANTY CARD		
A 10	BT-51028-2	SVC CENTER LIST		LH310 0J,LH 3150J
A 12	VKZ4027-202	PLUG NUT		
A 13	VKH4871-001SS	MOUNT BOLT		
A 14	VKZ4328-001	LOCK NUT		
A 15	WNS5000Z	WASHER		
A 16	GE40130-001A	HOOK	(x2)	
A 17	FSJB3002-00C	HARD CASE		LH310 0J
A 17	FSJB3002-00C	HARD CASE		LH315 0C,LH 3150J
A 18	GE20137-003A	MOUNTING SLEEVE		LH315 0C,LH 3150J
A 18	GE20137-003A	MOUNTING SLEEVE		LH310 0J
A 19	GE20150-001A	TRIM PLATE ASSY		
A 20	RM-RK50	REMOCON UNIT		
A 21	-----	BATTERY		
A 22	QAM0306-001	16P CORD ASSY		
KIT	KSF480K-SCREW1	SCREW PARTS KIT	A12 to A16	
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	QPC03004315P	POLY BAG	30cm x 43cm	
P 7	GE30778-001A	CARTON		LH310 0J
P 7	GE30928-001A	CARTON		LH315 0C
P 7	GE30784-001A	CARTON		LH315 0J
P 8	GE10070-001A	EPS CUSHION		