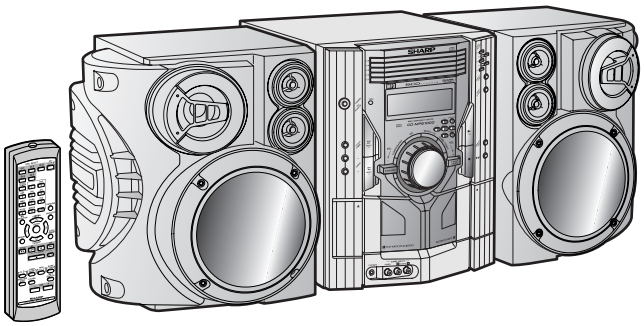
SHARP SERVICE MANUAL

No. S4417CDMP1000



MINI COMPONENT SYSTEM

MODEL CD-MPS1000

CD-MPS1000 Mini Component System consisting of CD-MPS1000 (main unit) and CP-MPS1000 (speaker system).

COMPACT disc DIGITAL AUDIO

MP3

CD-R/RW Playable

5CD CHANGER

CONTENTS

Parts marked with " ⚠ " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

IMPORTANT SERVICE NOTES

BEFORE RETURNING THE AUDIO PRODUCT

BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

* Plug the AC line cord directly into a 120 volt AC outlet.

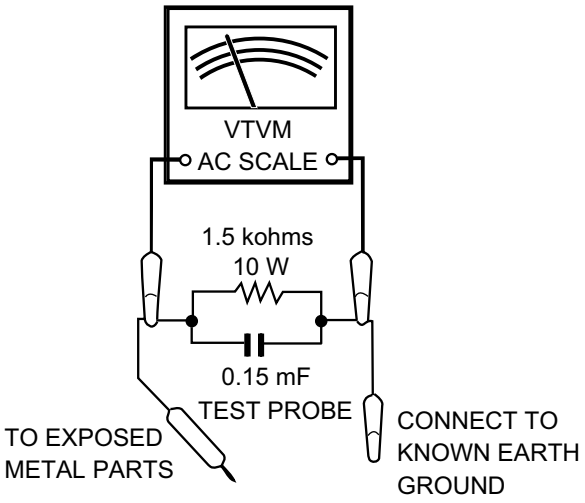
* Using two clip leads, connect a 1.5 kohm, 10 watt resistor paralleled by a 0.15 µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.

* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).

* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.



CHAPTER 1. GENERAL DESCRIPTION

[1] Specifications

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

CD-MPS1000

■ General

Power source	AC 120 V, 60 Hz
Power consumption	175 W
Dimensions	Width: 10-1/4" (260 mm) Height: 13" (330 mm) Depth: 12-7/8" (326 mm)
Weight	22.7 lbs. (10.3 kg)

■ Amplifier

Output power	PMPO: 5000 W (total) RMS: 400 W (200 W + 200 W) (10 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Video output: 1Vp-p
Input terminals	Game/ Auxiliary (audio signal): 500 mV/ 47 k ohms Game/Video: 1Vp-p

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 530 - 1,720 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

CP-MPS1000

Type	3-way type speaker system with passive radiator Super tweeter × 2 2" (5 cm) tweeter × 1 6-1/2" (16 cm) woofer × 1 4" (10 cm) passive radiator
Maximum input power	400 W
Rated input power	200 W
Impedance	6 ohms
Dimensions	Width: 10-7/8" (277 mm) Height: 13" (330 mm) Depth: 11" (279 mm)
Weight	10.6 lbs. (4.8 kg)/each

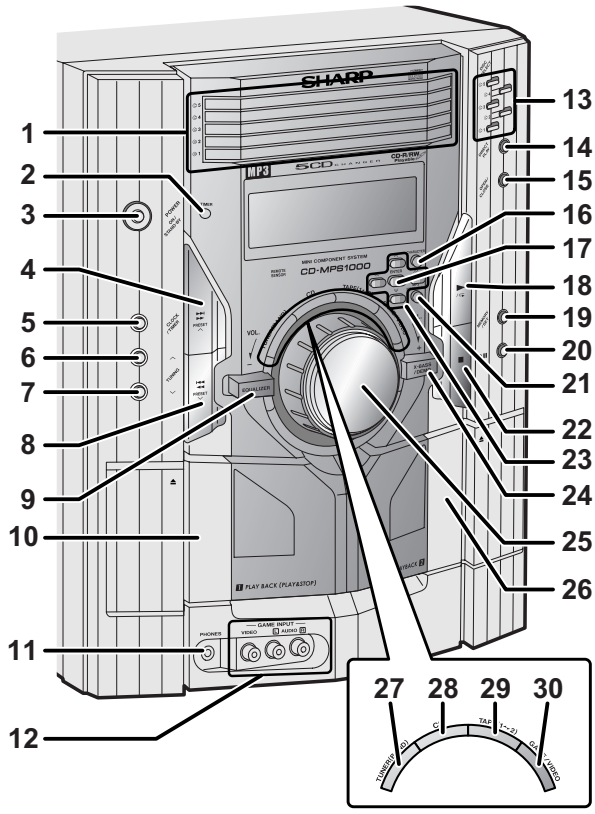
Specifications for this model are subject to change without prior notice.

[2] Names of parts

CD-MPS1000

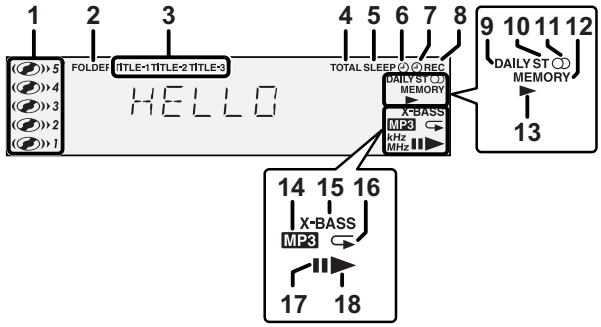
■ Front panel

1. Disc Trays
2. Timer Indicator
3. Power On/Stand-by Button
4. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
5. Clock/Timer Button
6. Tuning Up Button
7. Tuning Down Button
8. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
9. Equalizer Mode Select Button
10. Tape 1 Cassette Compartment
11. Headphone Jack
12. Game/Video Input Jacks
13. Disc Number Select Buttons
14. Disc Direct Play Button
15. Disc Tray Open/Close Button
16. Character Button
17. Enter Button
18. Disc Play or Repeat, Tape Play Button
19. Memory/Set Button
20. Tape 2 Record Pause Button
21. MP3 Disc Navigation Mode Select Button
22. Disc or Tape Stop Button
23. Cursor Buttons
24. Extra Bass/Demo Mode Button
25. Volume Control
26. Tape 2 Cassette Compartment
27. Tuner (Band) Button
28. CD Button
29. Tape (1 ↔ 2) Button
30. Game/Video Button



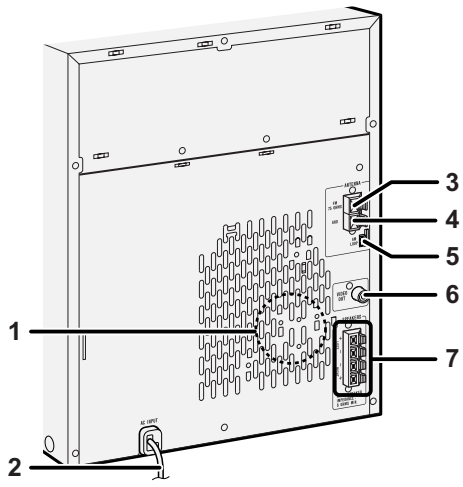
■ Display

1. Disc Number Indicators
2. MP3 Folder Indicator
3. MP3 Title Indicators
4. MP3 Total Indicator
5. Sleep Indicator
6. Timer Play Indicator
7. Timer Recording Indicator
8. Tape 2 Record Indicator
9. Daily Timer Indicator
10. FM Stereo Mode Indicator
11. FM Stereo Receiving Indicator
12. Memory Indicator
13. Tape Play Indicator
14. MP3 Disc Indicator
15. Extra Bass Indicator
16. Disc Repeat Play Indicator
17. Disc Pause Indicator
18. Disc Play Indicator



■ Rear panel

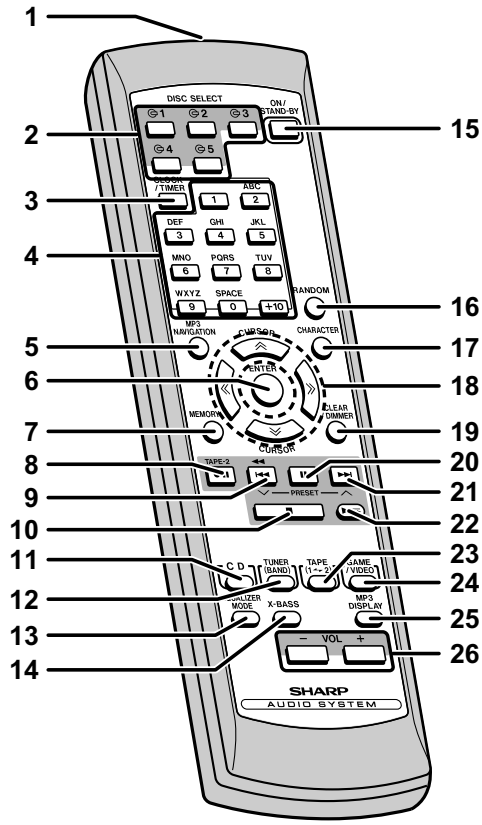
1. Cooling Fan
2. AC Power Cord
3. FM 75 Ohms Antenna Terminal
4. FM Antenna Ground Terminal
5. AM Loop Antenna Jack
6. Video Output Jack
7. Speaker Terminals



CD-MPS1000

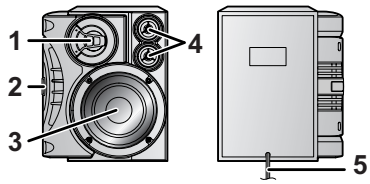
■ Remote control

1. Remote Control Transmitter
2. Disc Number Select Buttons
3. Clock/Timer Button
4. Character Input/Disc Direct Search Buttons
5. MP3 Disc Navigation Mode Select Button
6. Enter Button
7. Memory/Set Button
8. Tape 2 Record Pause Button
9. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
10. Disc or Tape Stop Button
11. CD Button
12. Tuner (Band) Button
13. Equalizer Mode Select Button
14. Extra Bass Button
15. Power On/Stand-by Button
16. Disc Random Button
17. Character Button
18. Cursor Buttons
19. Disc Clear/Dimmer Button
20. Disc Pause Button
21. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
22. Disc Play or Repeat, Tape Play Button
23. Tape (1↔2) Button
24. Game/Video Button
25. MP3 Disc Display Button
26. Volume Up and Down Buttons



CP-MPS1000

1. Tweeter
2. Passive Radiator
3. Woofer
4. Super Tweeters
5. Speaker Wire



CHAPTER 2. ADJUSTMENTS

[1] Mechanism section

- Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

- Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
	—	70 to 180 g.cm

- Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz Speaker	Speaker Terminal (Load resistance: 6 ohms)

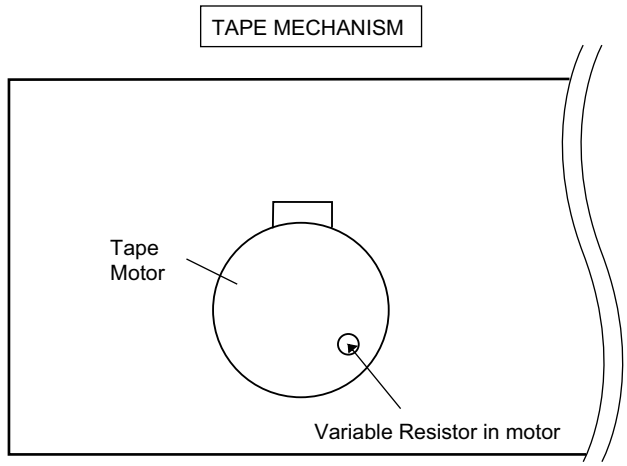


Figure 1

[2] Tuner section

fL: Low-range frequency

fH: High-range frequency

- AM IF/RF

  Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,720 kHz	T351	*1
AM Band Coverage	—	530 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302
*2. Input: Antenna Output: TP301

- FM RF

  Signal generator: 1 kHz, 40 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	T301 (fL): 1.3 V ± 0.1 V	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L312	*2

*1. Input: Antenna Output: TP301
*2. Input: Antenna Output: Speaker terminal

- FM IF

  Signal generator: 10.7 MHz, FM modulated

Test Stage	Frequency	Frequency Display	Setting/Adjusting Point	Instrument Connection
IF	10.7 MHz	98 MHz	T302 (Turn the core of transformer T302 fully counter clockwise)	*1

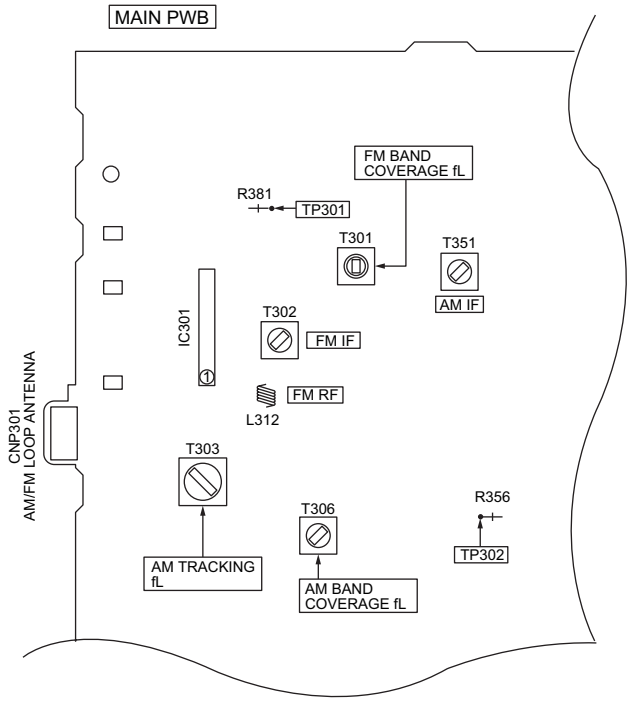
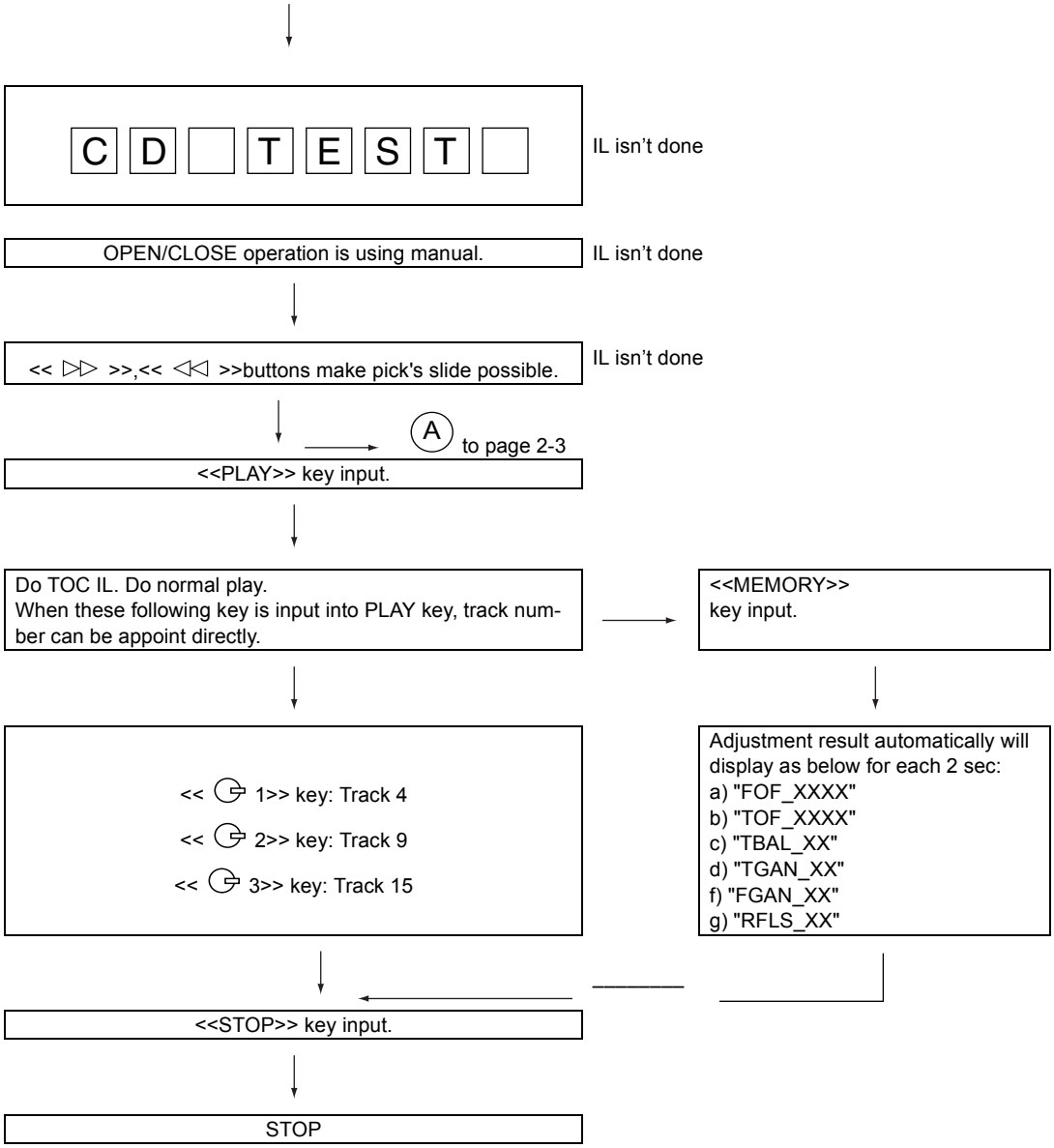


Figure 2 Adjustment Points

[3] TEST MODE

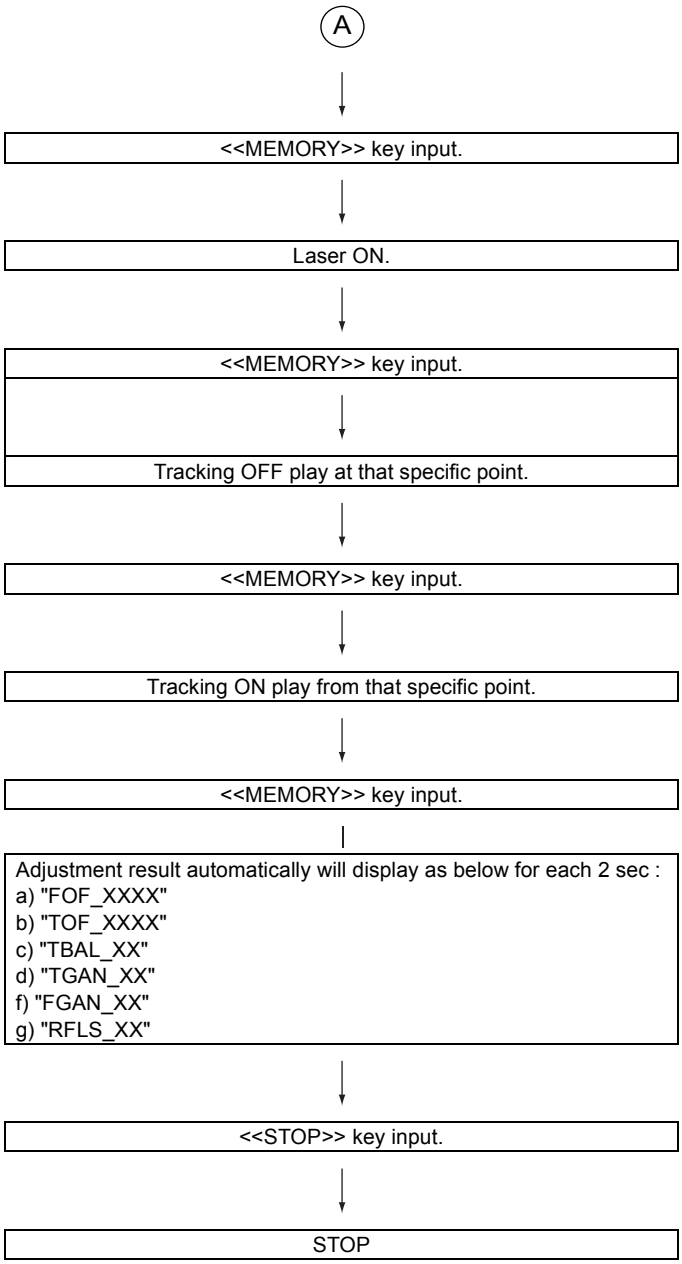
• Setting the test mode

During stand-by mode, press ON/STAND-BY button while pressing down the ■ button and X-BASS/DEMO button. then, press the CD button to enter the test mode.



explanation:

a) Focus off set = "FOF_XXXX"
b)Tracking off set = "TOF_XXXX"
c)Tracking balance = "TBAL_XX"
d)Tracking Gain = "TGAN_XX"
f) Focus Gain = "FGAN_XX"
g) RF level shift = "RFLS_XX"
VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel : Power OFF



Sliding the PICKUP with<< ▷▷ >>, << ◁◁ >> button must only be in STOP mode.

explanation:

a) Focus off set = "FOF_XXXX"
b)Tracking off set = "TOF_XXXX"
c)Tracking balance = "TBAL_XX"
d)Tracking Gain = "TGAN_XX"
f) Focus Gain = "FGAN_XX"
g) RF level shift = "RFLS_XX"
VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel : Power OFF

[4] CD section

CD Error code description

Error	Explanation
01	When Pickup set inner position, inner switch cannot detect 'ON' level for 10 secs.
10*	CAM error. Can't detect CAM switch when CAM is moving.
11*	When it detect cam operation error during initialize process.
20*	TRAY error. Can't detect TRAY switch when TRAY is moving.
21*	When it detect TRAY operation error during initialize process.
31	When it change to CD function, DSP cannot read initial data.

* 'CHECKING'

If Error is detected, 'CHECKING' will be displayed instead of 'ER-CD**'. 'ER-CD**' display will only be displayed when error had been detected for the 5th times.

Standard Specification of Stereo System Error Message Display Contents

Error Contents		Display	Notes
CD	Pickup Mechanism Error.	'ER-CD01'	PU-IN SW Detection NG.
	CD Changer Mechanism Error.	'ER-CD**' (*)	10: CAM SW Detection NG during normal operation 11: CAM SW Detection NG during initialize process 20:TRAY SW Detection NG during normal operation 21:TRAY SW Detection NG during initialize process
	CD DSP Communication Error.	'ER-CD31'	DSP COMMUNICATION ERROR.
	Focus Not Match/IL Time Over.	'NO DISC'	
TUNER	PLL Unlock.	FM 87.5 MHz	PLL Unlock.

(*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**'. 'ER-CD**' display will only be display when error had been detected for the 5 th times.

Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, it can be check by pressing 'POWER', ' ■ ' and 'X-BASS' button. MicroComputer version number will displayed as "XM******".

Press ‘VIDEO/AUX’ button during version number display and then press ‘POWER’, ‘MEMORY/SET’ and ‘VIDEO/AUX’ button. Display will show "S** B**". S is referring to speaker abnormal detection and B is referring to +B PROTECTION. ** is in hex valve.

+B PROTECTION is condition when irregular process occur on power supply line.

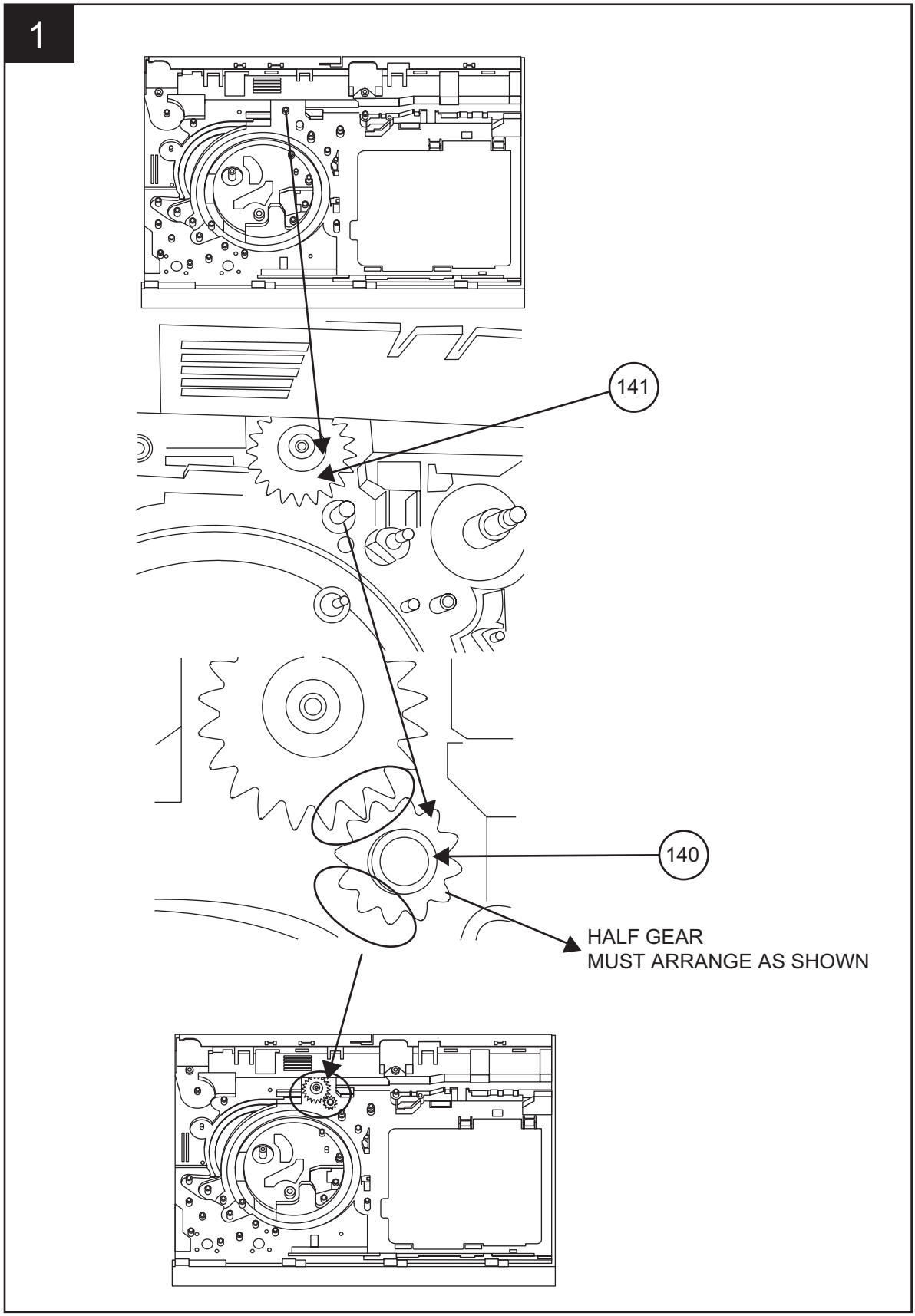
BEFORE TRANSPORTING THE UNIT

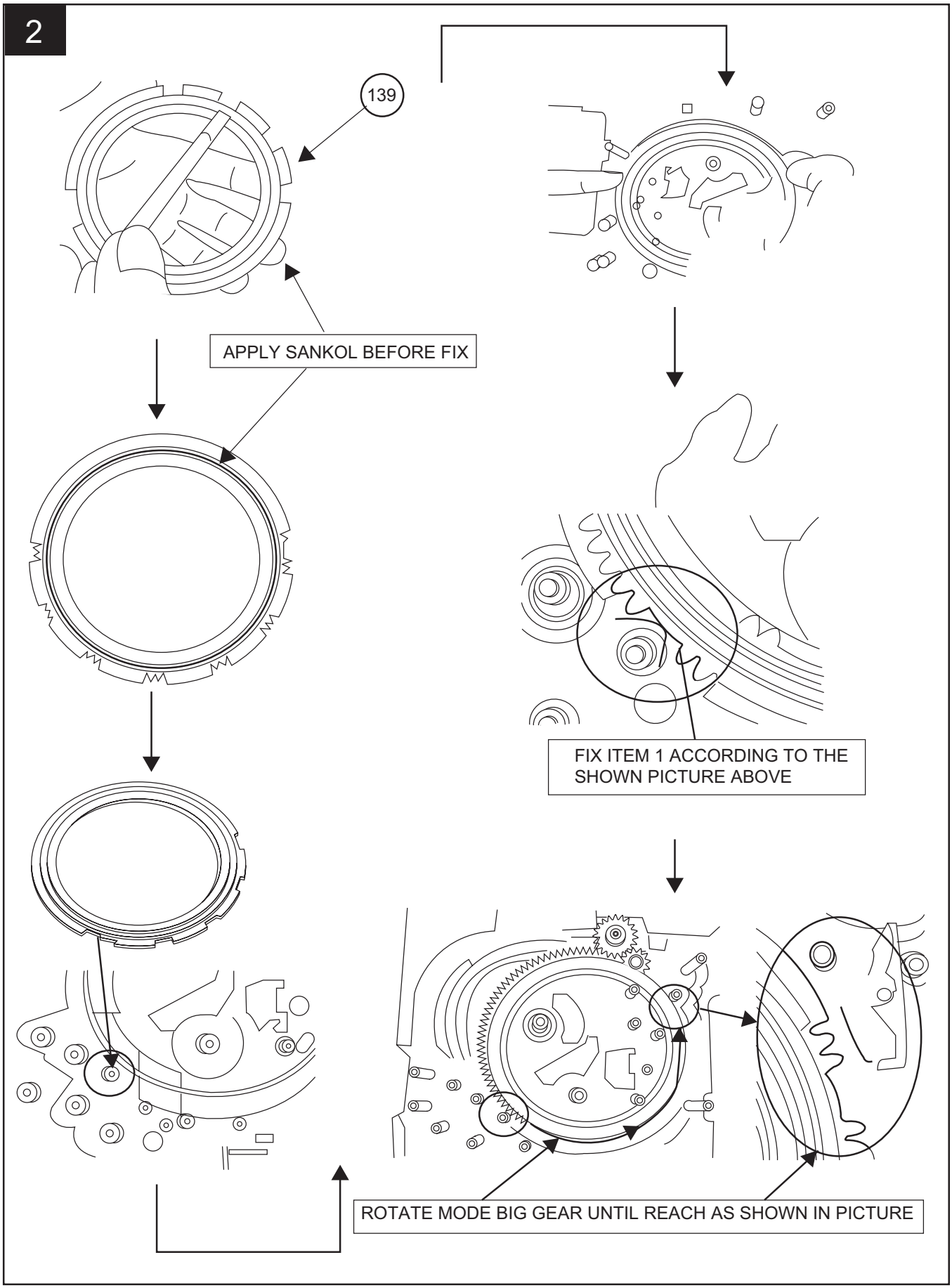
The following process need to be taken after set tapering/parts replacement.

1. Press the ON/STAND-BY button to enter stand-by mode.
2. While pressing down the ■ button and the X-BASS/DEMO button, press the ON/STAND-BY button. The Micro Computer version number will be displayed as "XM******".
3. Press OPEN/CLOSE button until "WAIT"→ "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

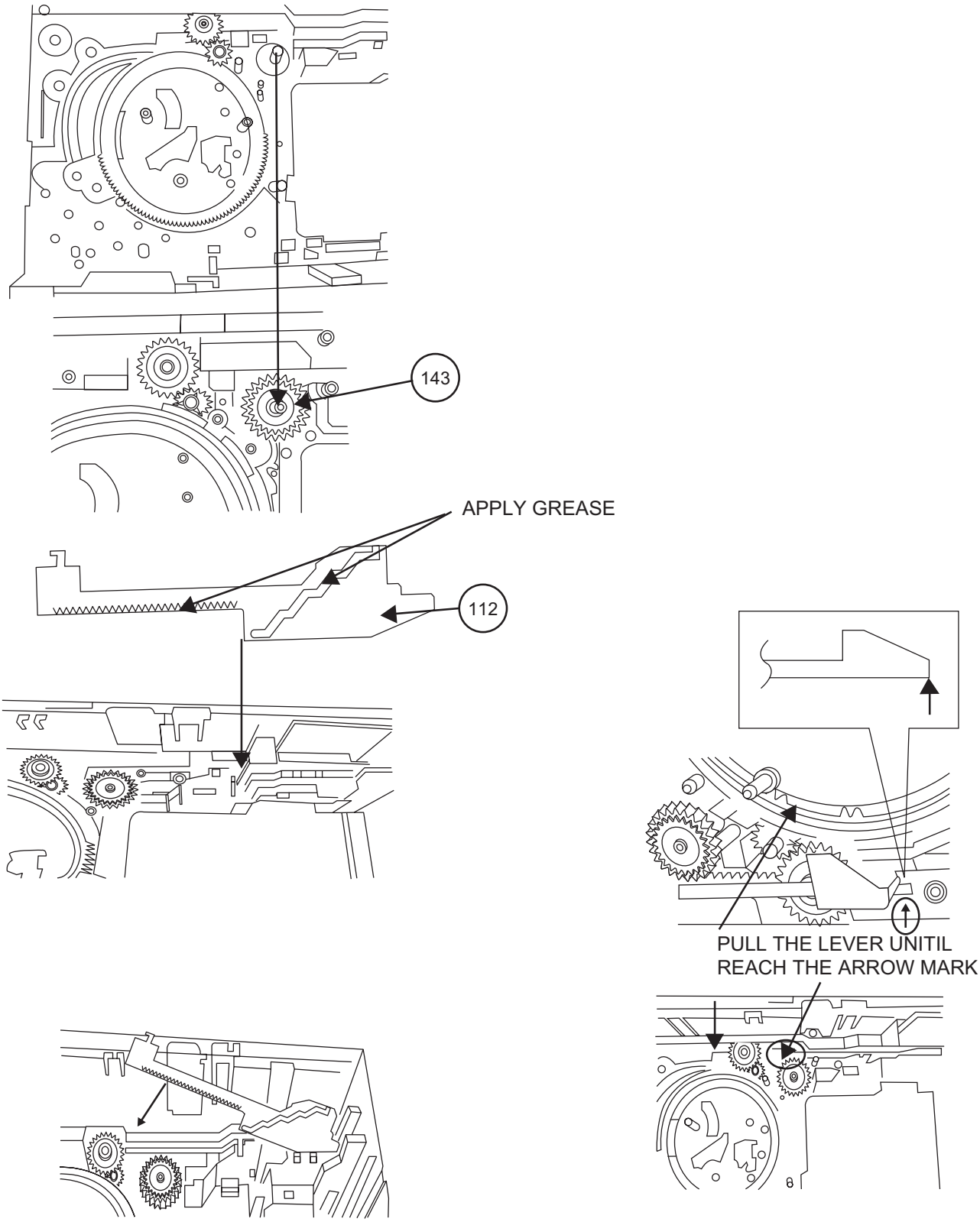
[5] CD Changer mechanism section

- A number in the drawing sheet is the number of the parts guide (CHANGER MECHANISM PARTS).




2
139
APPLY SANKOL BEFORE FIX
FIX ITEM 1 ACCORDING TO THE SHOWN PICTURE ABOVE
ROTATE MODE BIG GEAR UNTIL REACH AS SHOWN IN PICTURE

3


143
APPLY GREASE
112
PULL THE LEVER UNITIL
REACH THE ARROW MARK

4

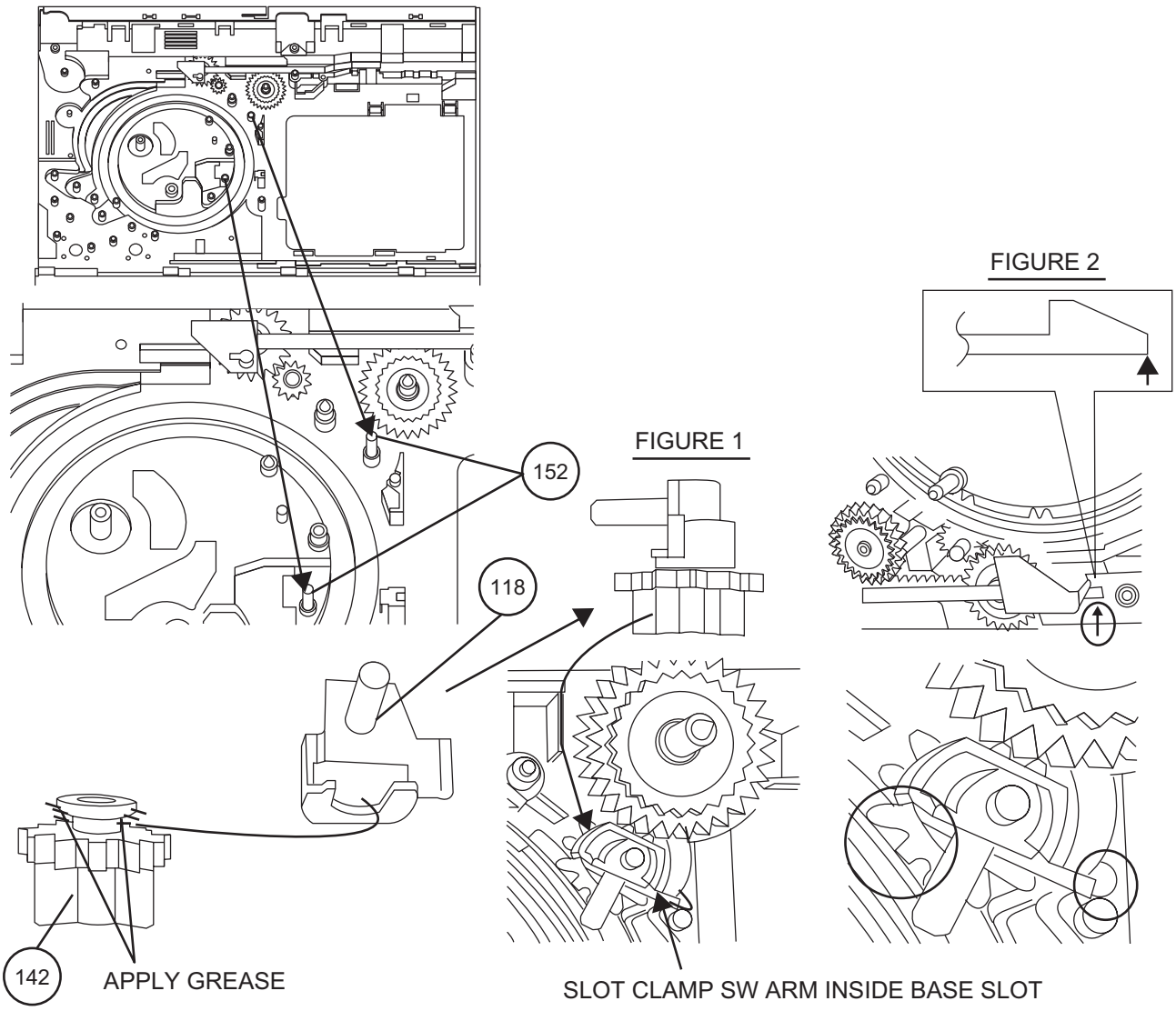


FIGURE 1

FIGURE 2

5

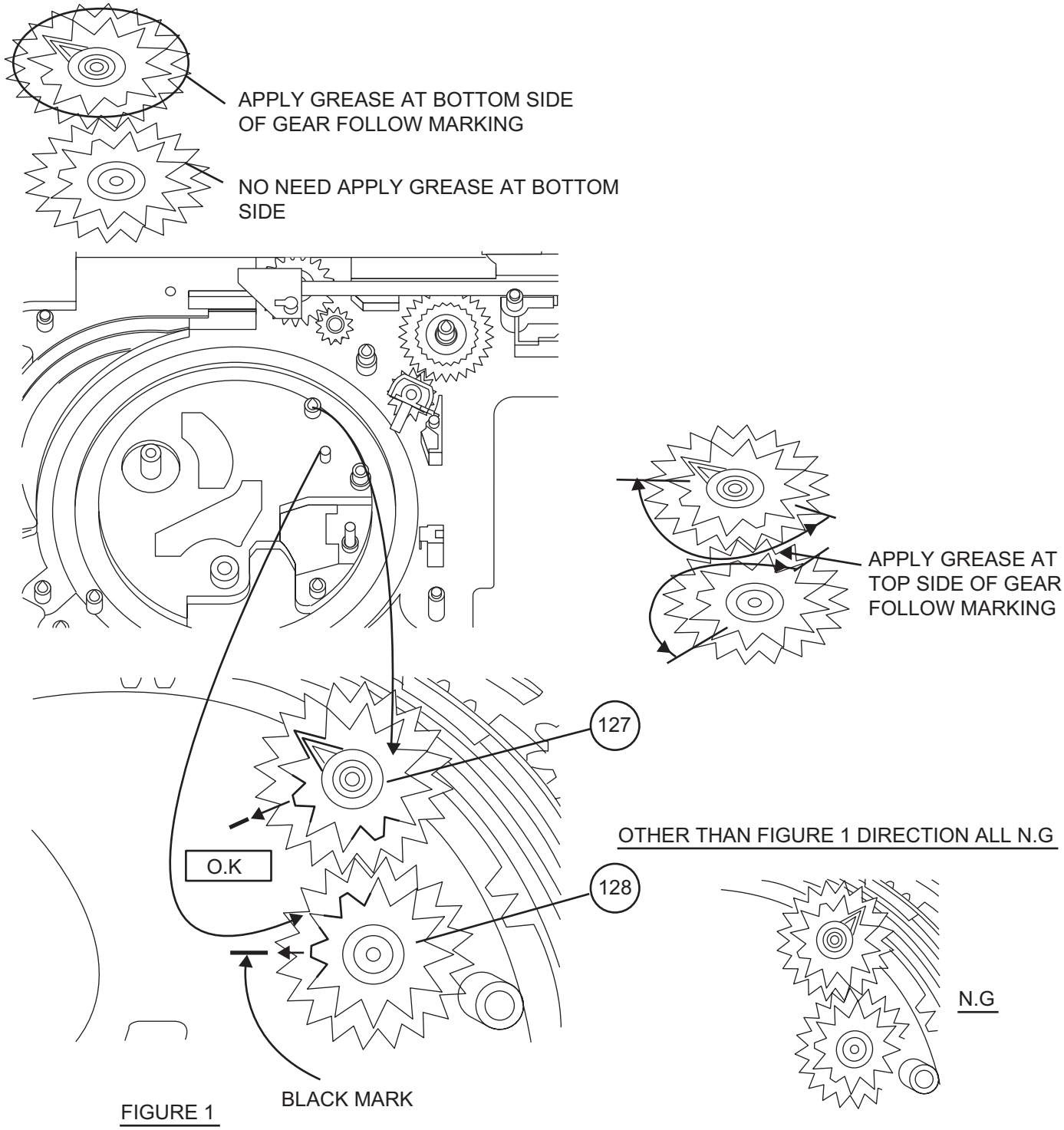
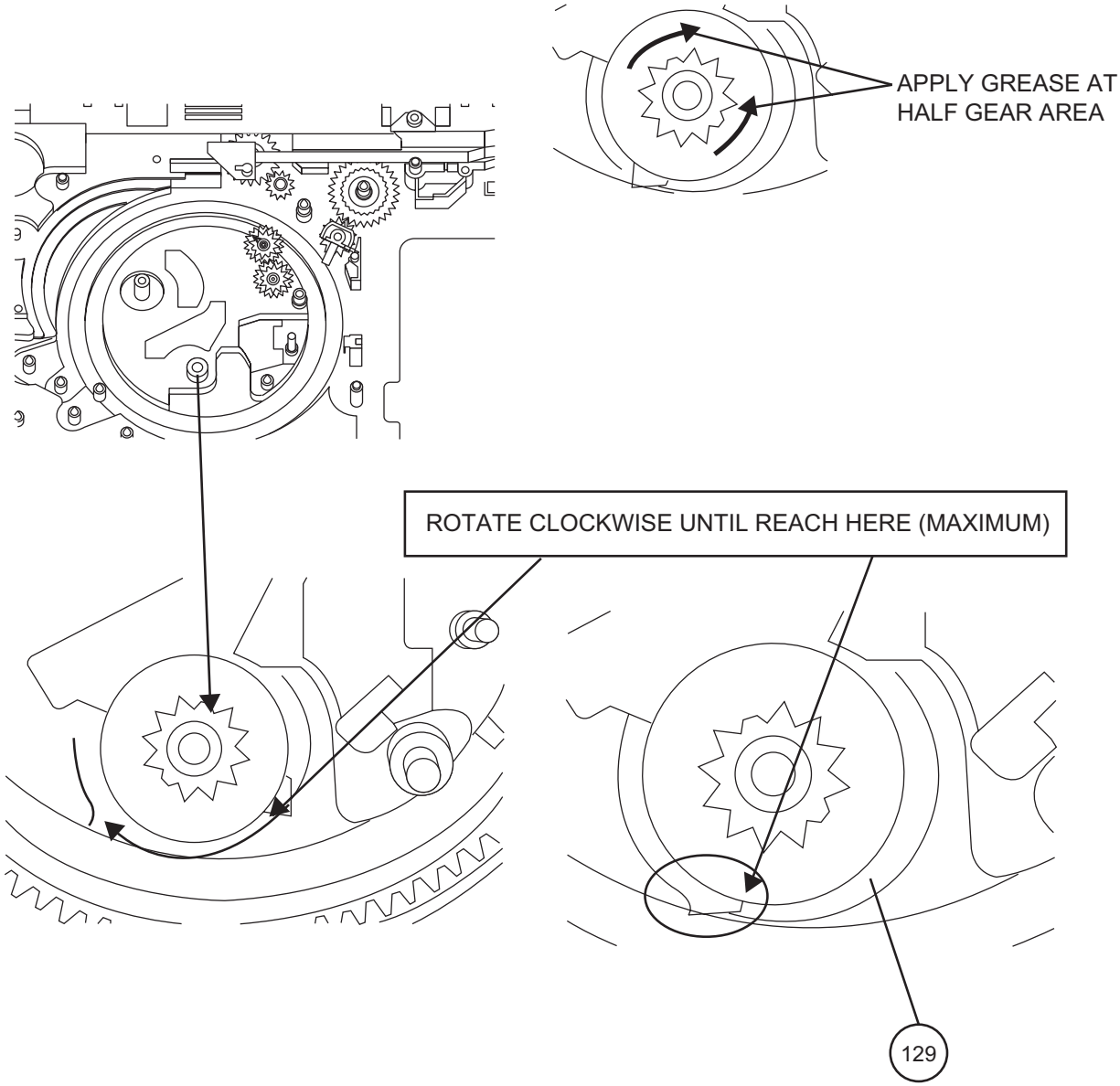
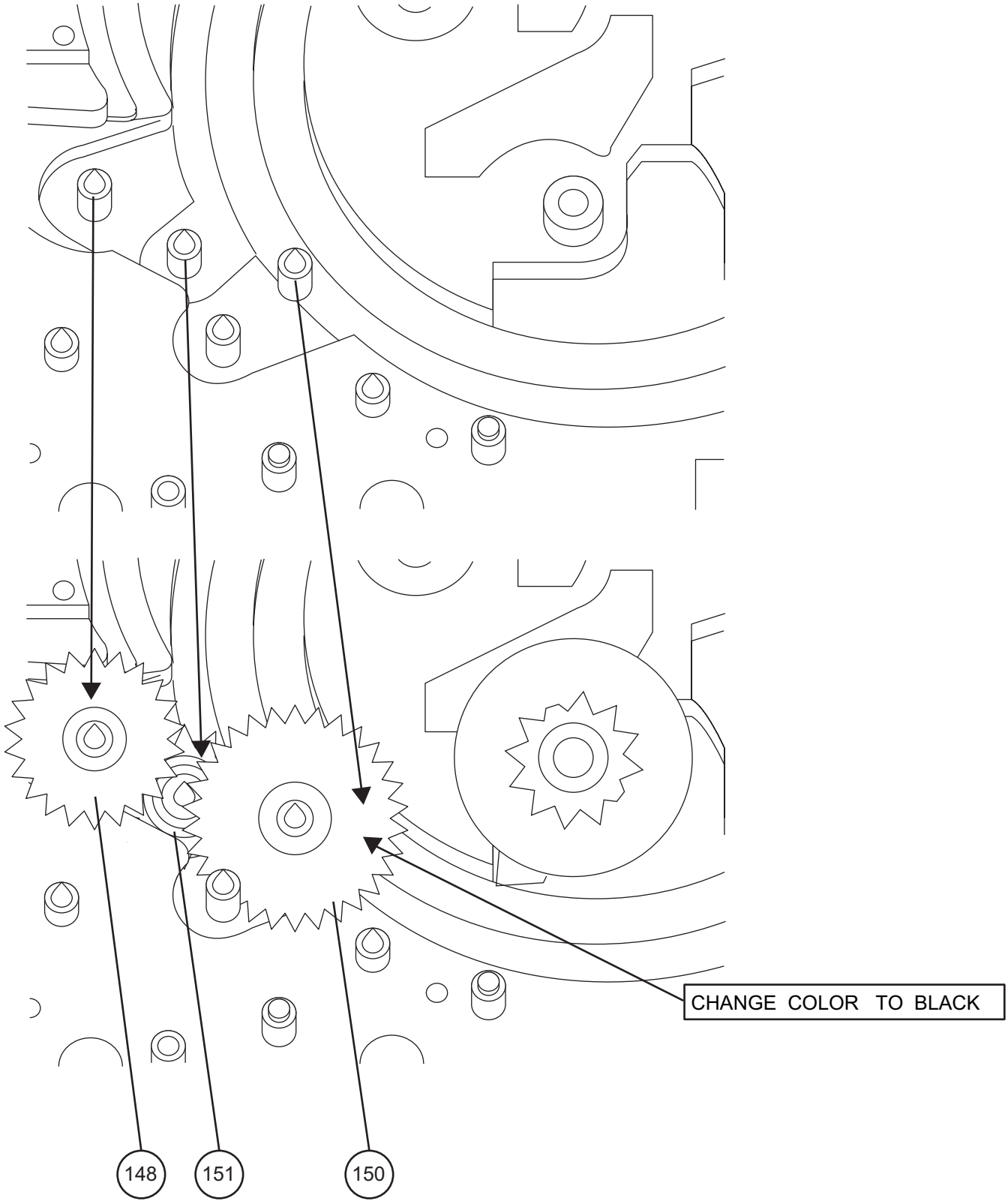

APPLY GREASE AT BOTTOM SIDE OF GEAR FOLLOW MARKING
NO NEED APPLY GREASE AT BOTTOM SIDE
APPLY GREASE AT TOP SIDE OF GEAR FOLLOW MARKING
127
128
O.K
OTHER THAN FIGURE 1 DIRECTION ALL N.G
N.G
BLACK MARK

FIGURE 1

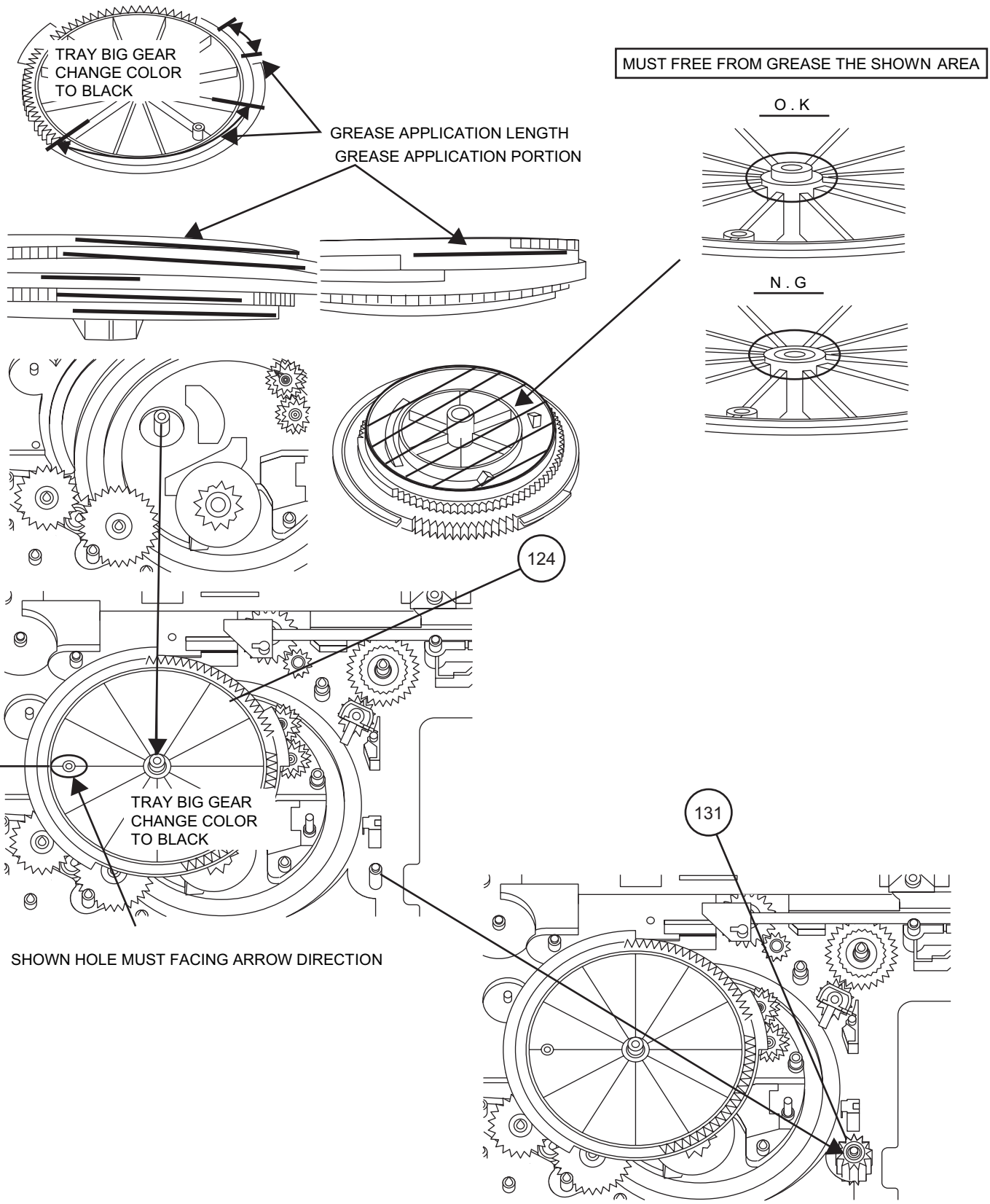
6

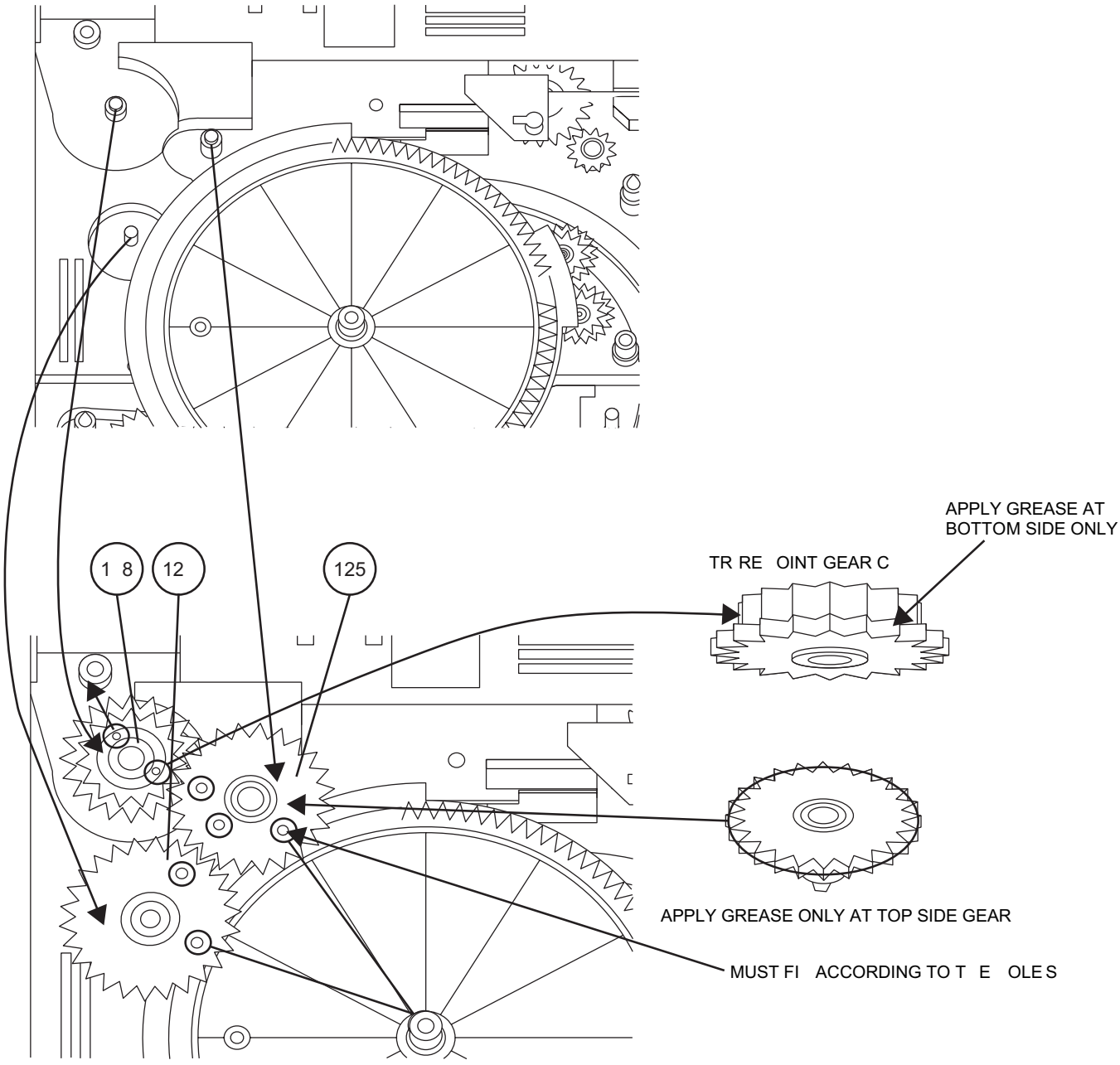

APPLY GREASE AT
HALF GEAR AREA
ROTATE CLOCKWISE UNTIL REACH HERE (MAXIMUM)
129

7

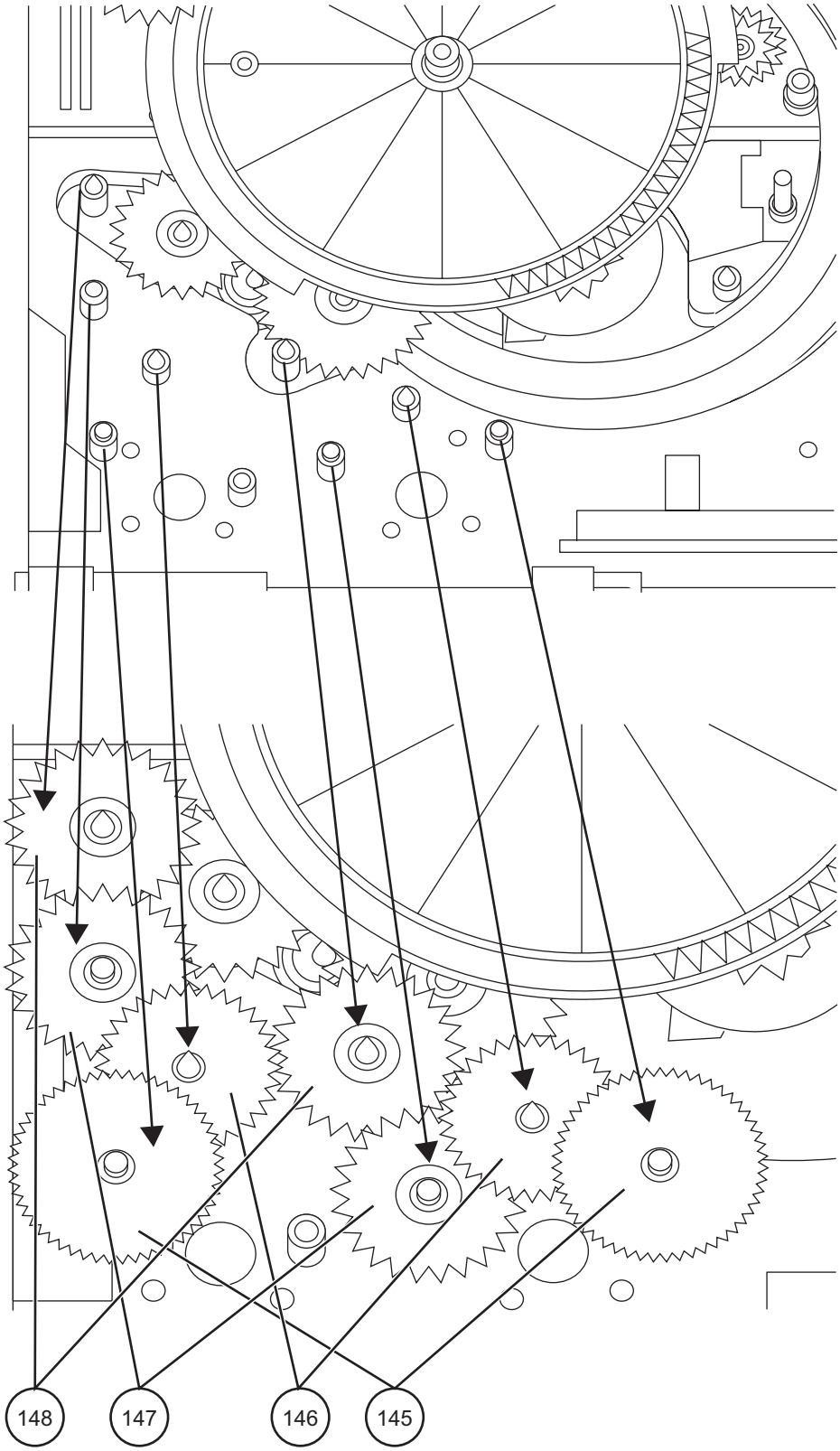


8

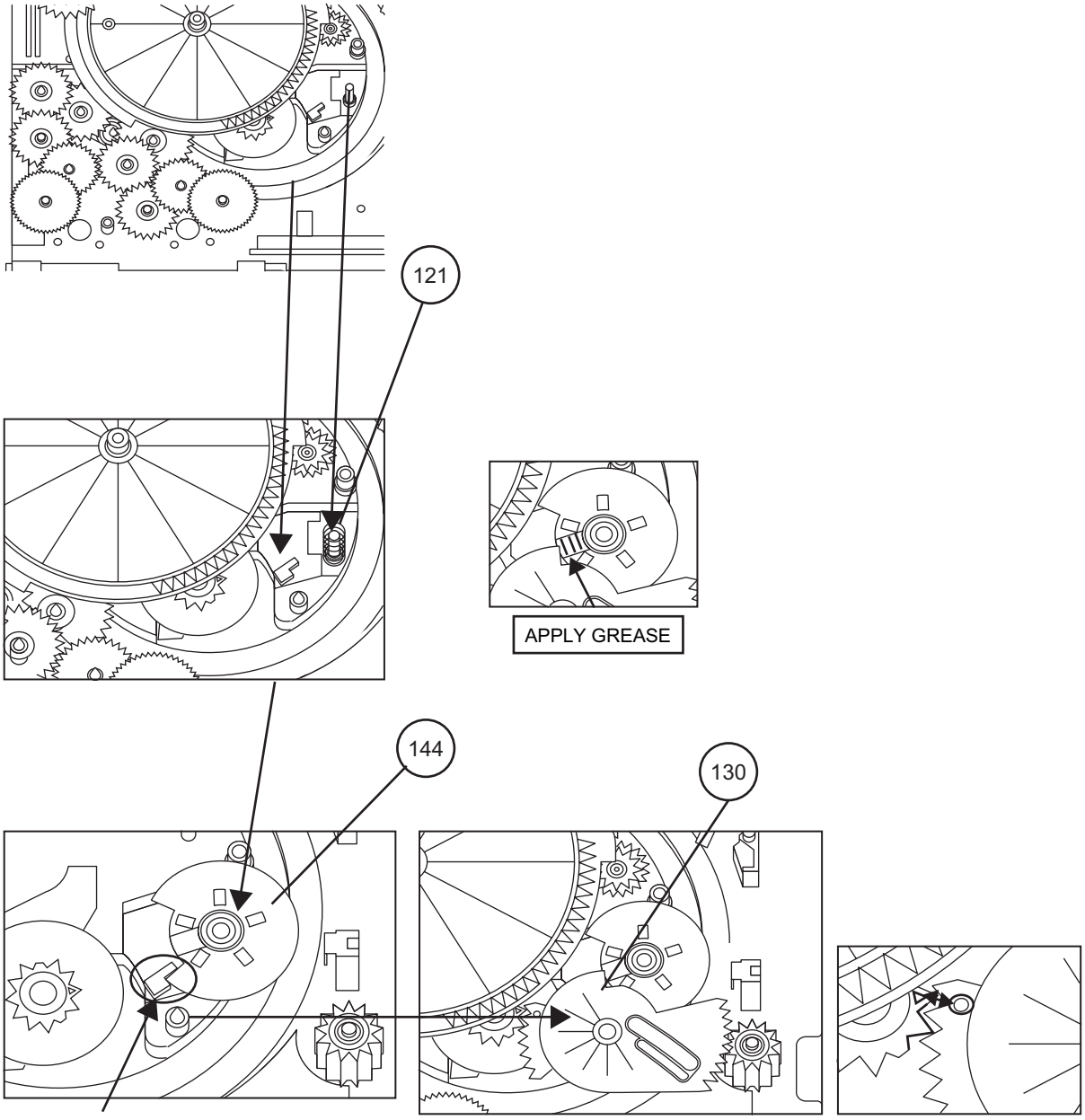

TRAY BIG GEAR
CHANGE COLOR
TO BLACK
GREASE APPLICATION LENGTH
GREASE APPLICATION PORTION
MUST FREE FROM GREASE THE SHOWN AREA
O . K
N . G
124
TRAY BIG GEAR
CHANGE COLOR
TO BLACK
131
SHOWN HOLE MUST FACING ARROW DIRECTION


APPLY GREASE AT
BOTTOM SIDE ONLY
1 8
12
125
TR RE OINT GEAR C
APPLY GREASE ONLY AT TOP SIDE GEAR
MUST FI ACCORDING TO T E OLE S

10

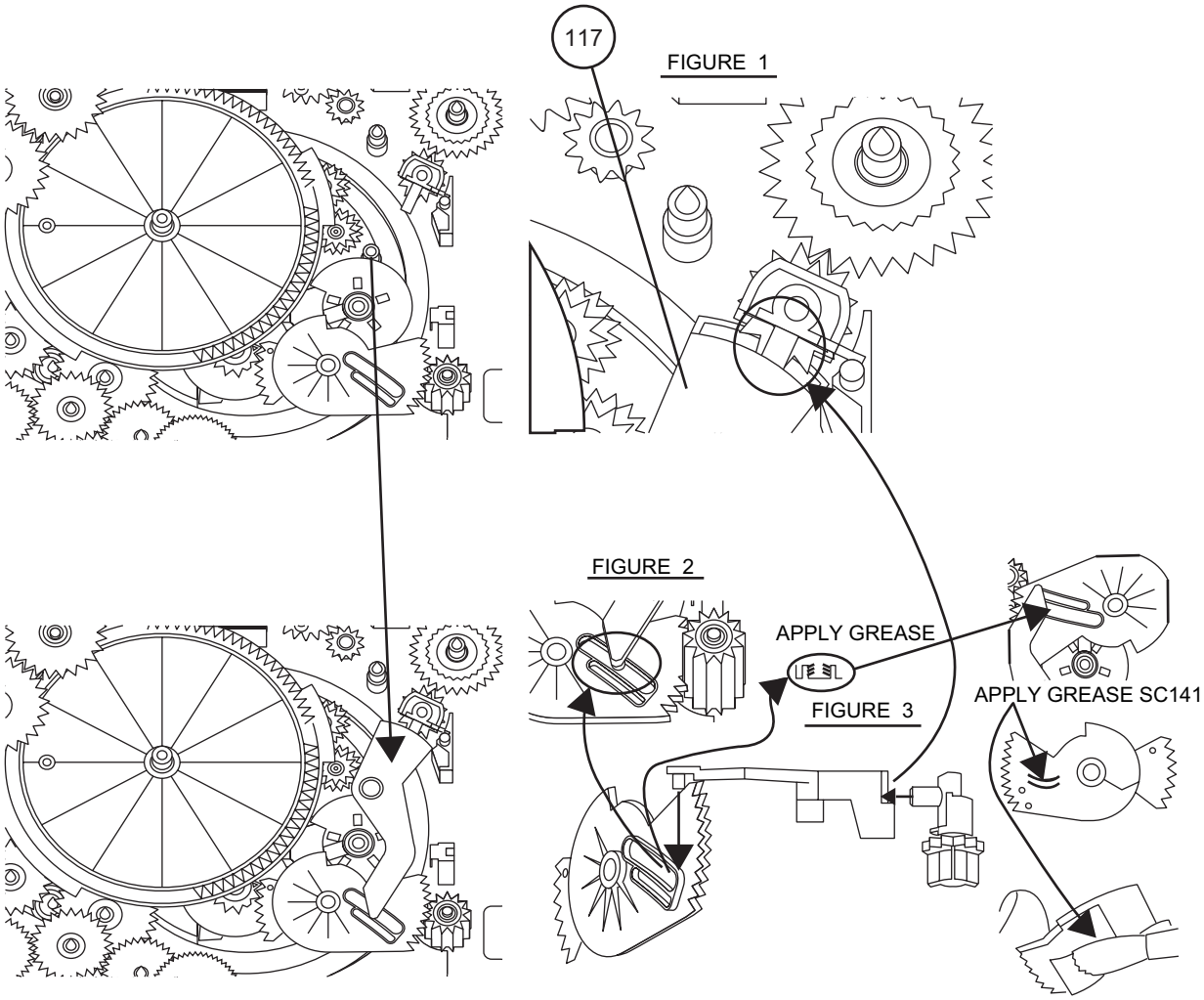


11

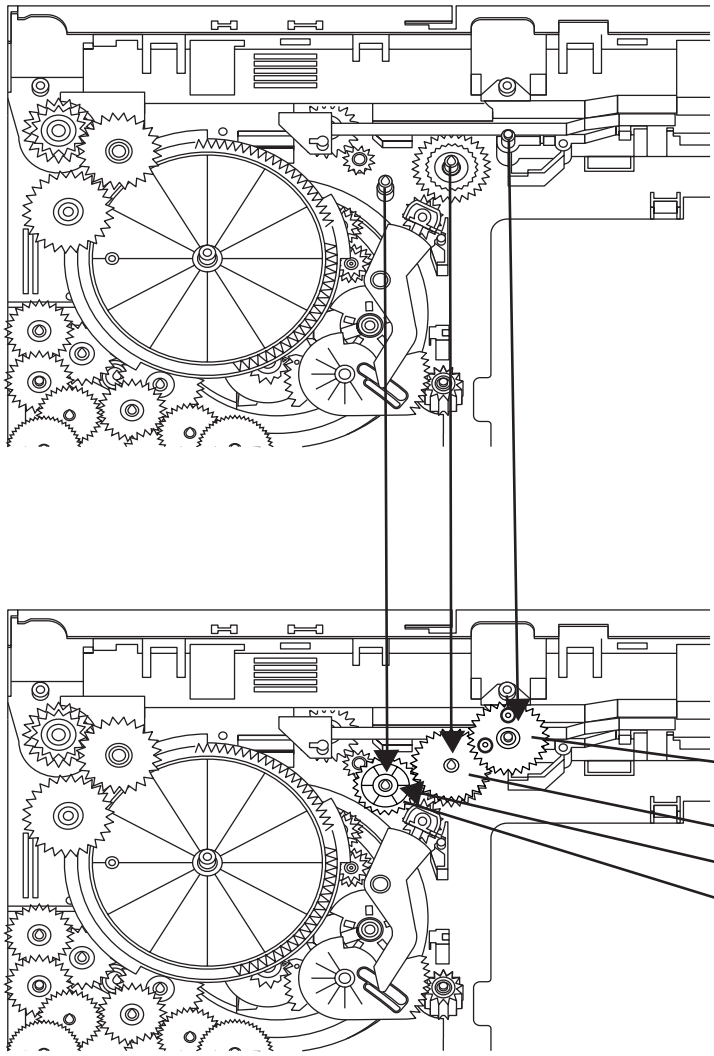


WHEN FIXING ITEM 2 MUST FOLLOW AS SHOWN

12

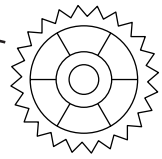

117
FIGURE 1
FIGURE 2
APPLY GREASE
FIGURE 3
APPLY GREASE SC141

13



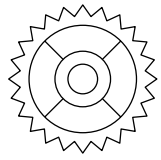
ITEM 2 , 3 MUST APPLY GREASE ON TOP SIDE GEAR ONLY

GEAR 112
O . K



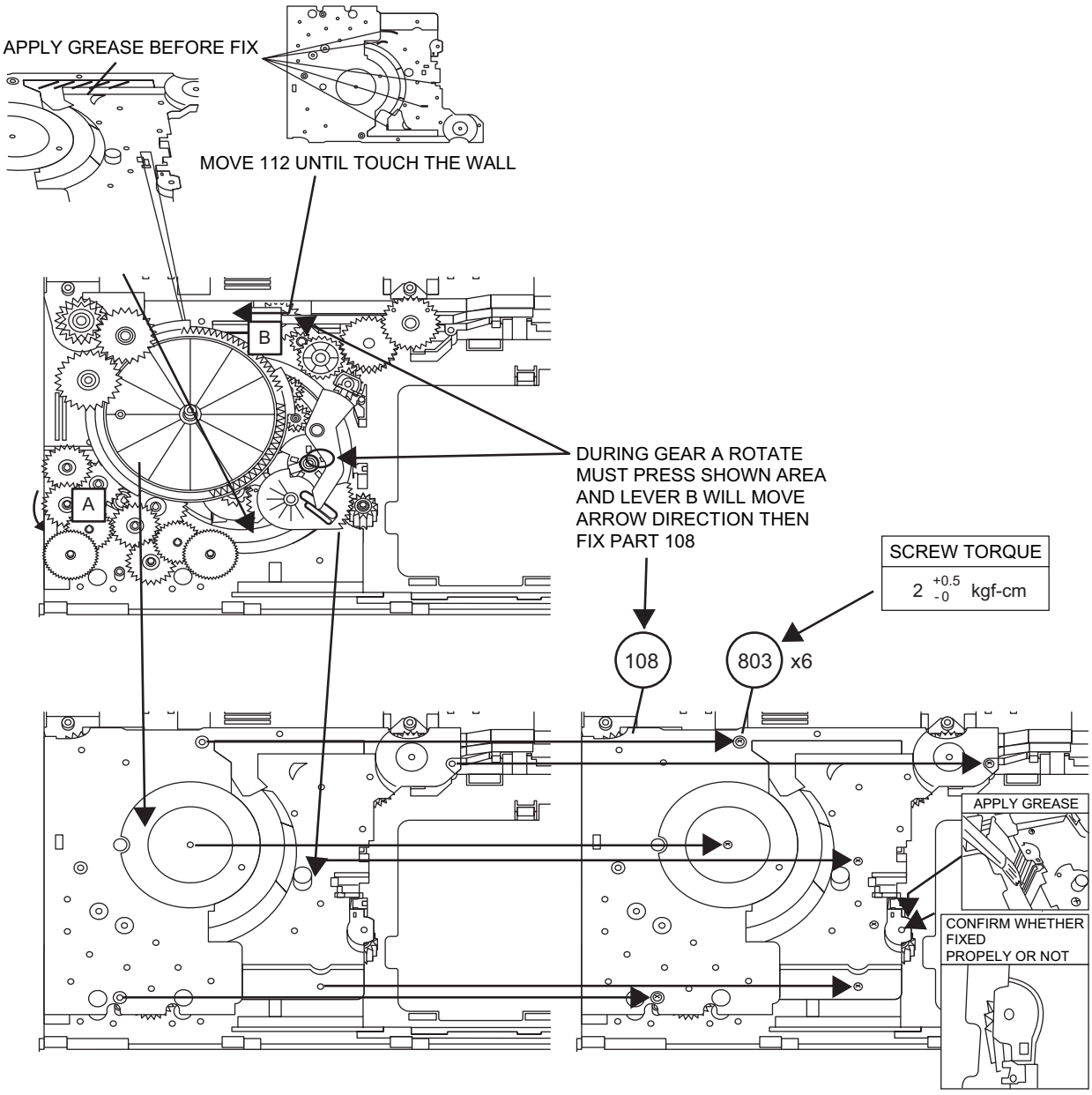
TOP VIEW AFTER ASSY

GEAR 112
N . G

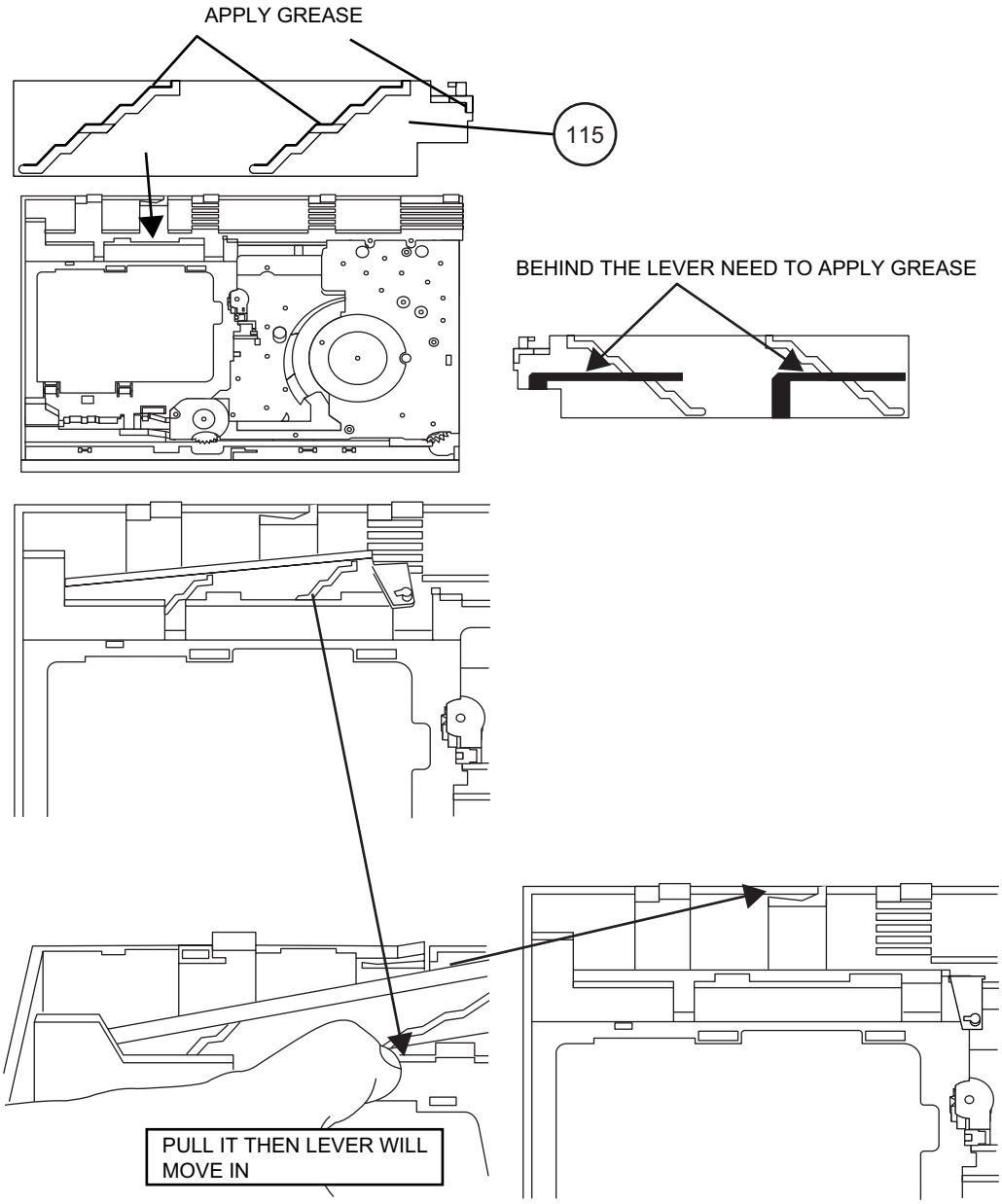


FIX REVERSE N.G

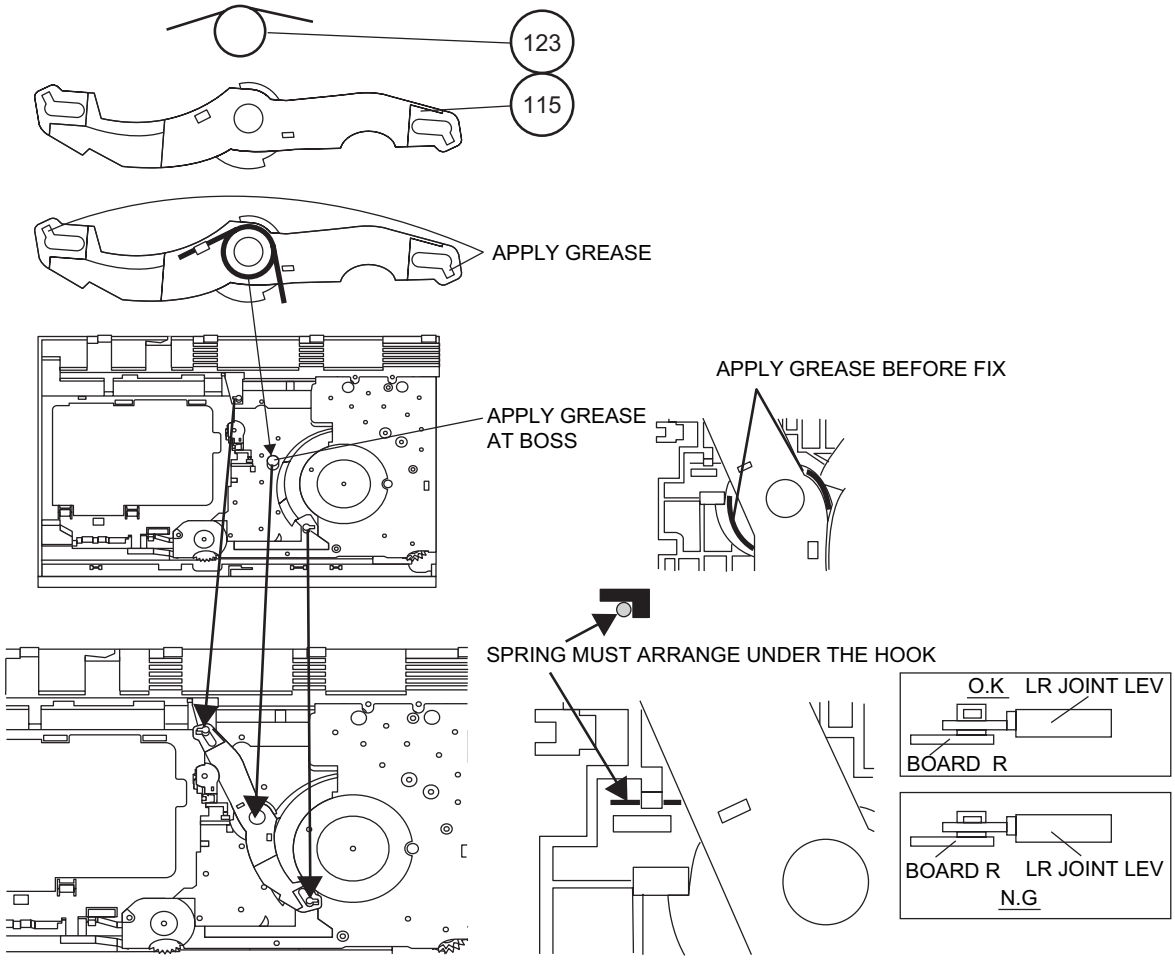
14


APPLY GREASE BEFORE FIX
MOVE 112 UNTIL TOUCH THE WALL
B
A
DURING GEAR A ROTATE
MUST PRESS SHOWN AREA
AND LEVER B WILL MOVE
ARROW DIRECTION THEN
FIX PART 108
SCREW TORQUE
2 +0.5 -0 kgf-cm
108
803 x6
APPLY GREASE
CONFIRM WHETHER
FIXED
PROPELY OR NOT

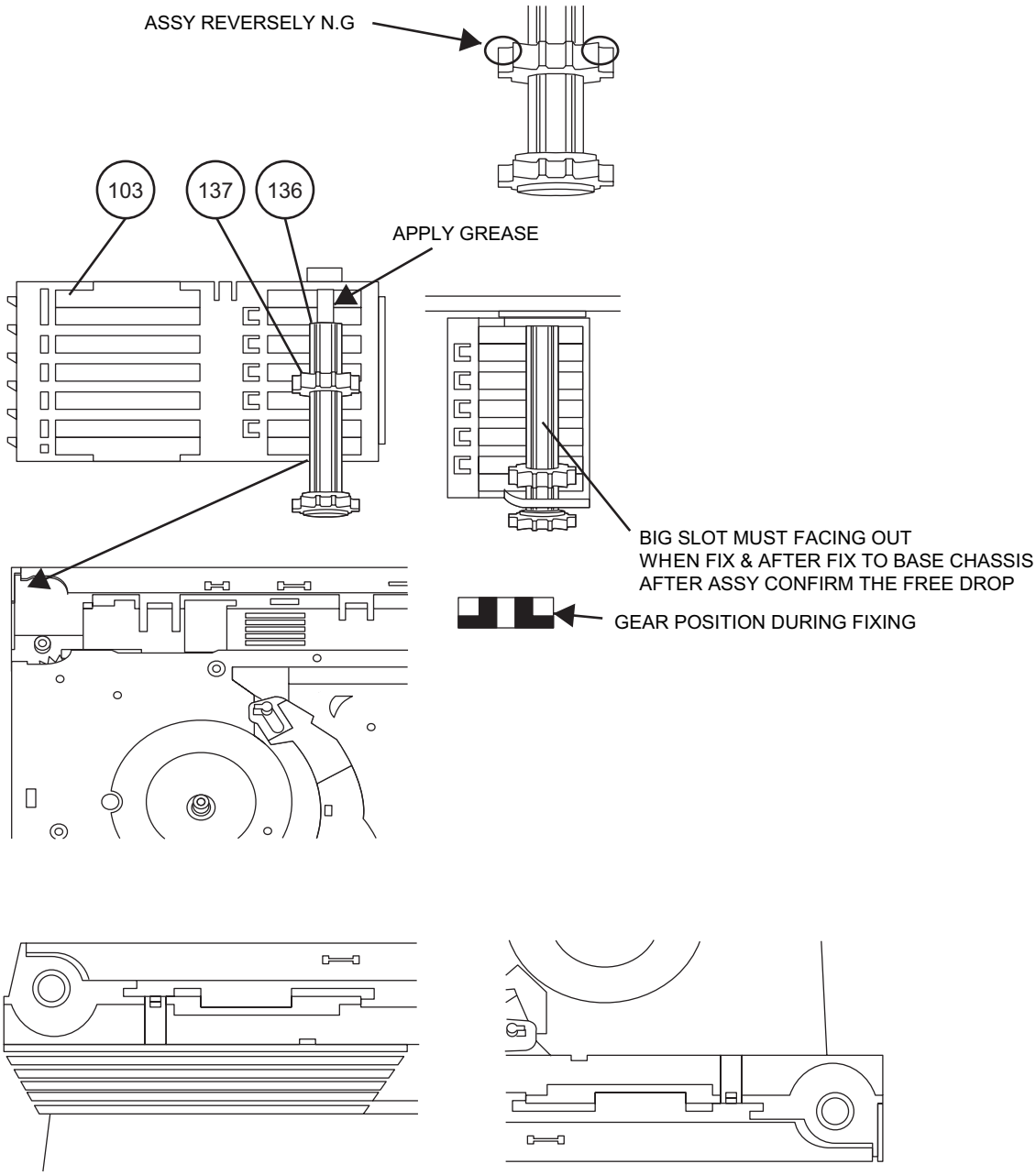
15


APPLY GREASE
115
BEHIND THE LEVER NEED TO APPLY GREASE
PULL IT THEN LEVER WILL
MOVE IN

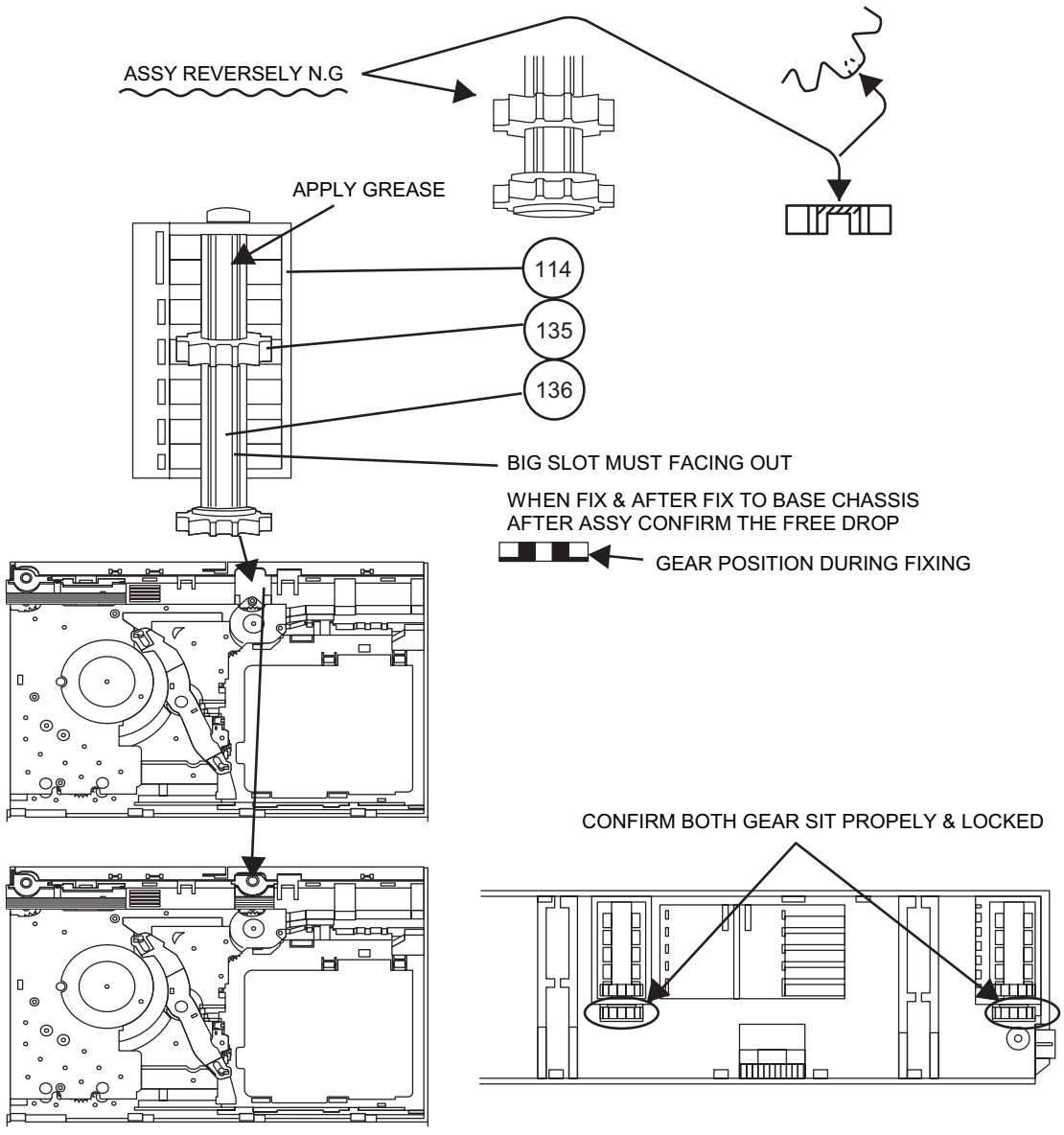
16


123
115
APPLY GREASE
APPLY GREASE
AT BOSS
APPLY GREASE BEFORE FIX
SPRING MUST ARRANGE UNDER THE HOOK
O.K
LR JOINT LEV
BOARD R
BOARD R
LR JOINT LEV
N.G

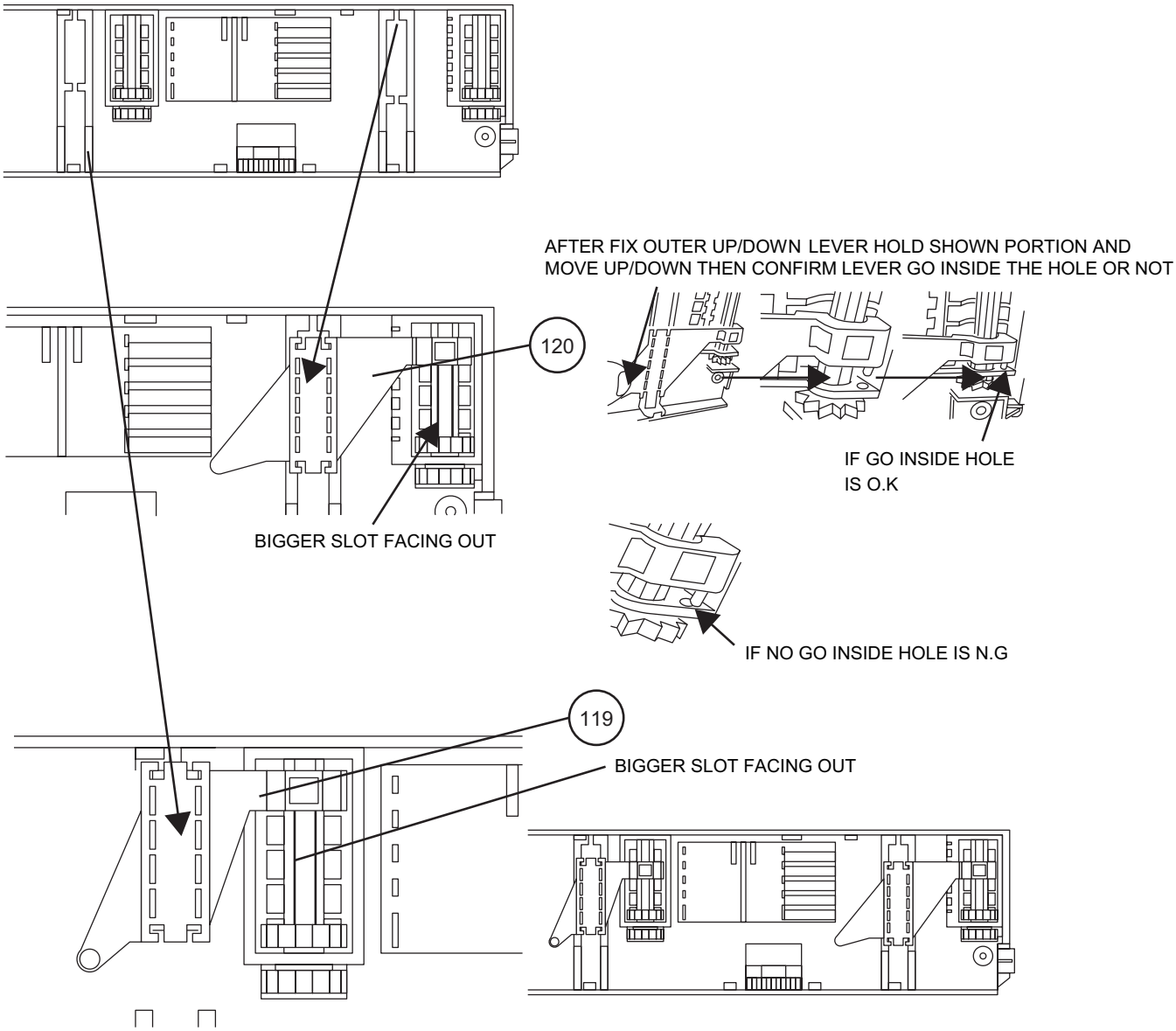
17


ASSY REVERSELY N.G
103
137
136
APPLY GREASE
BIG SLOT MUST FACING OUT
WHEN FIX & AFTER FIX TO BASE CHASSIS
AFTER ASSY CONFIRM THE FREE DROP
GEAR POSITION DURING FIXING

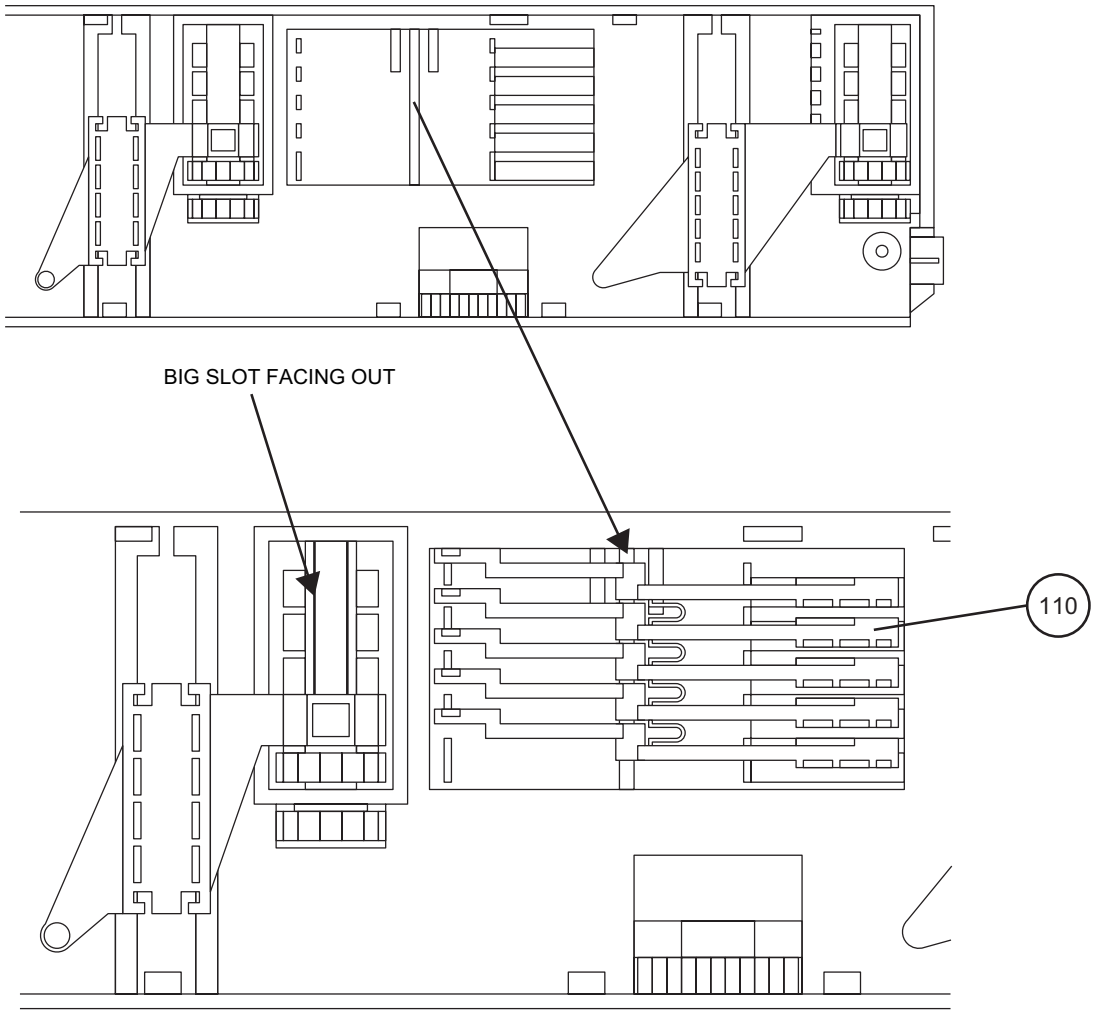
18


ASSY REVERSELY N.G
APPLY GREASE
114
135
136
BIG SLOT MUST FACING OUT
WHEN FIX & AFTER FIX TO BASE CHASSIS
AFTER ASSY CONFIRM THE FREE DROP
GEAR POSITION DURING FIXING
CONFIRM BOTH GEAR SIT PROPELY & LOCKED

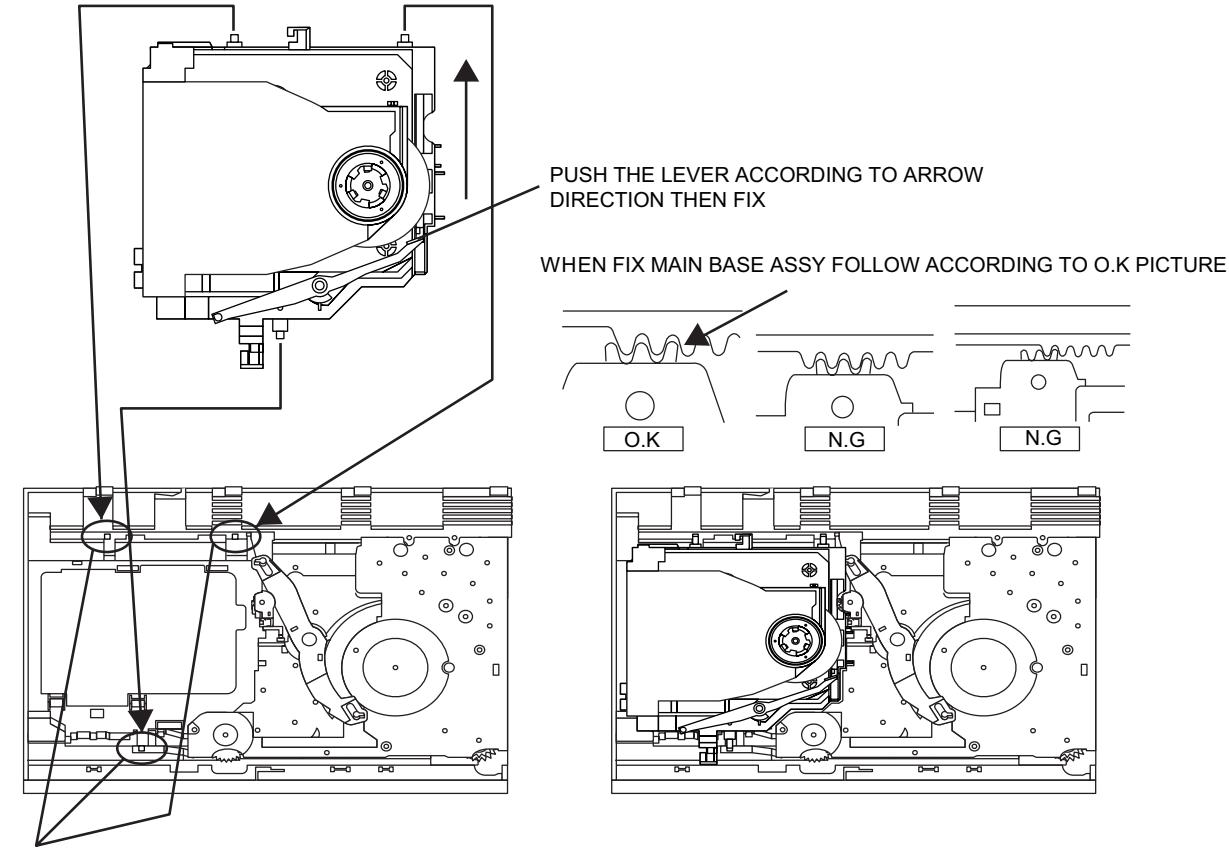
19


AFTER FIX OUTER UP/DOWN LEVER HOLD SHOWN PORTION AND
MOVE UP/DOWN THEN CONFIRM LEVER GO INSIDE THE HOLE OR NOT
120
IF GO INSIDE HOLE
IS O.K
BIGGER SLOT FACING OUT
IF NO GO INSIDE HOLE IS N.G
119
BIGGER SLOT FACING OUT

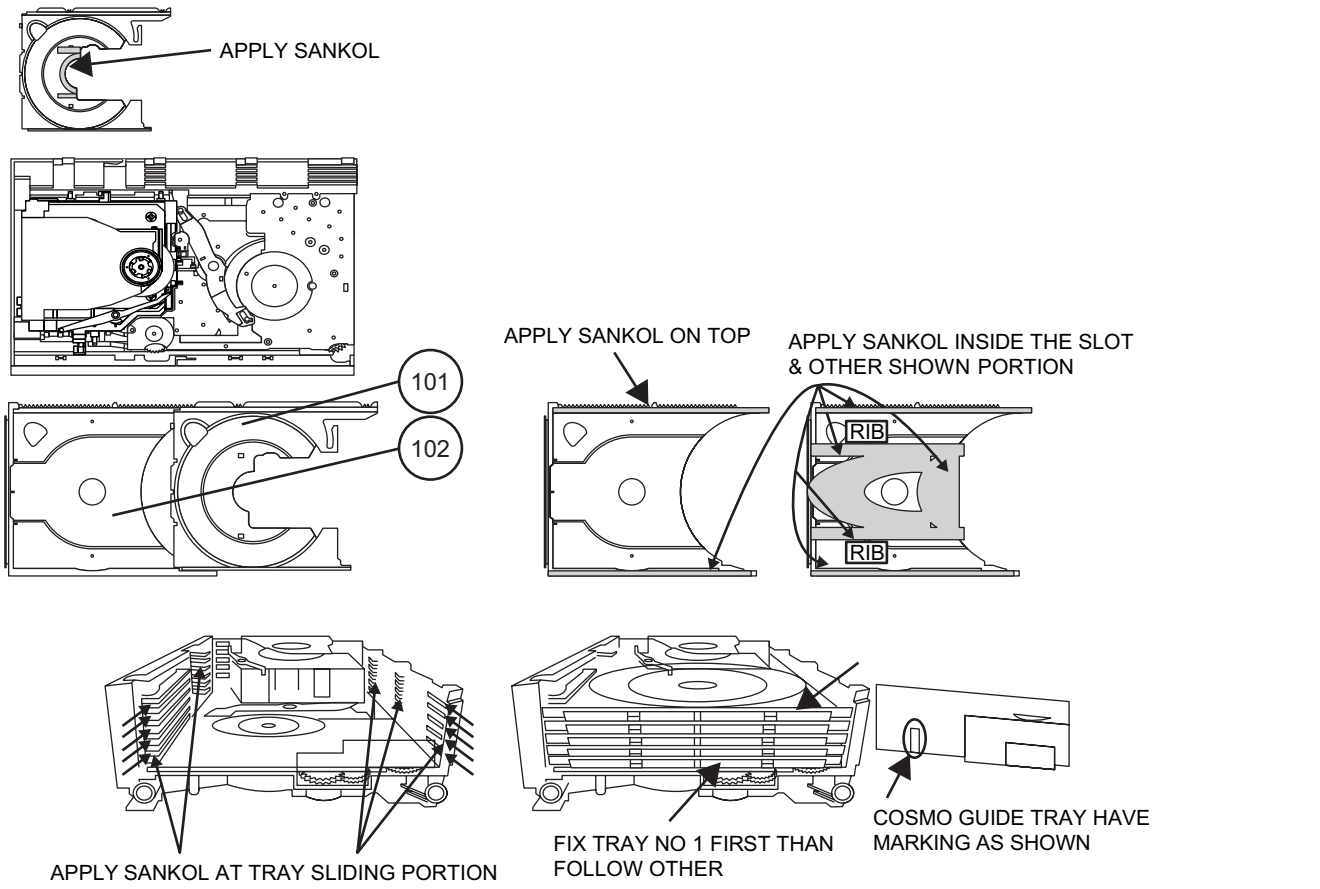
20



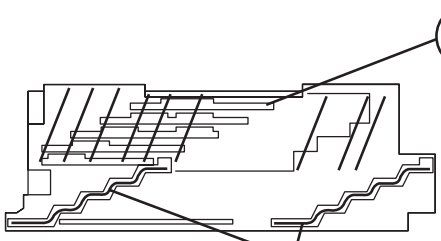
21


PUSH THE LEVER ACCORDING TO ARROW DIRECTION THEN FIX
WHEN FIX MAIN BASE ASSY FOLLOW ACCORDING TO O.K PICTURE
O.K
N.G
N.G
MAKE SURE MECHA HOLDER SHAFT FIX PROPELY TO LEVER

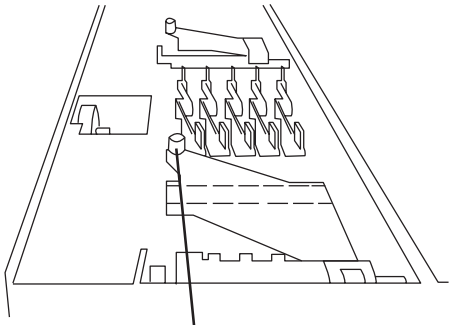
22


APPLY SANKOL
101
102
APPLY SANKOL ON TOP
APPLY SANKOL INSIDE THE SLOT
& OTHER SHOWN PORTION
RIB
RIB
APPLY SANKOL AT TRAY SLIDING PORTION
FIX TRAY NO 1 FIRST THAN
FOLLOW OTHER
COSMO GUIDE TRAY HAVE
MARKING AS SHOWN

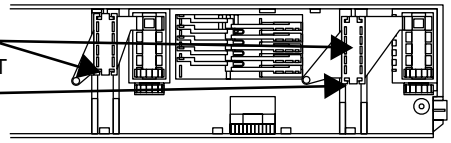
23

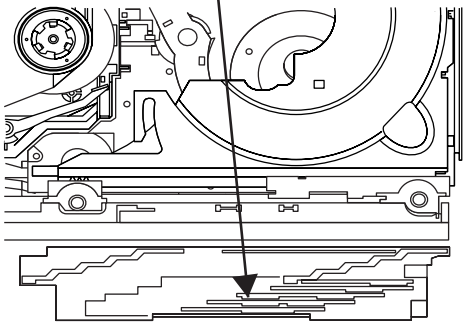


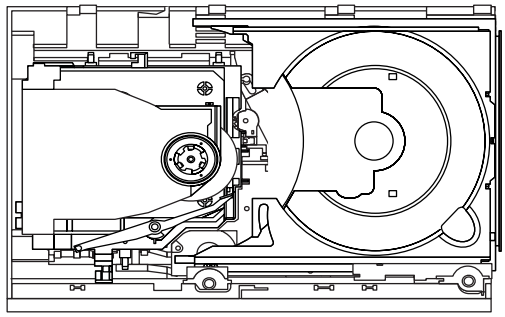
APPLY GREASE AT INNER & OUTER GEAR SLIDING PORTION



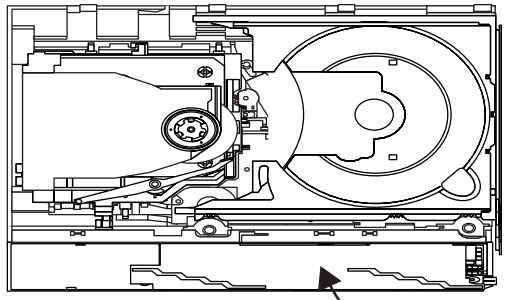
WHEN FIX GEAR UP/ DOWN BOARD THE TWO LEVER MUST AT PARALLEL LINE & POSITION AT TOP MAX SIDE



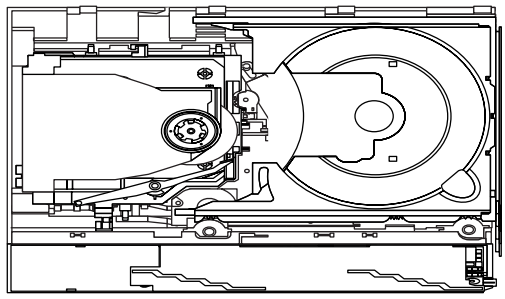




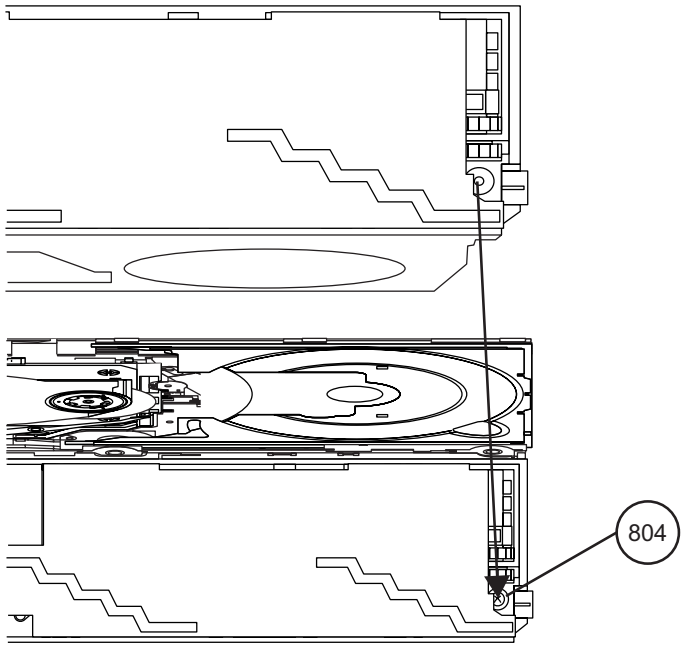
AFTER ASSY GEAR UP/DOWN BOARD



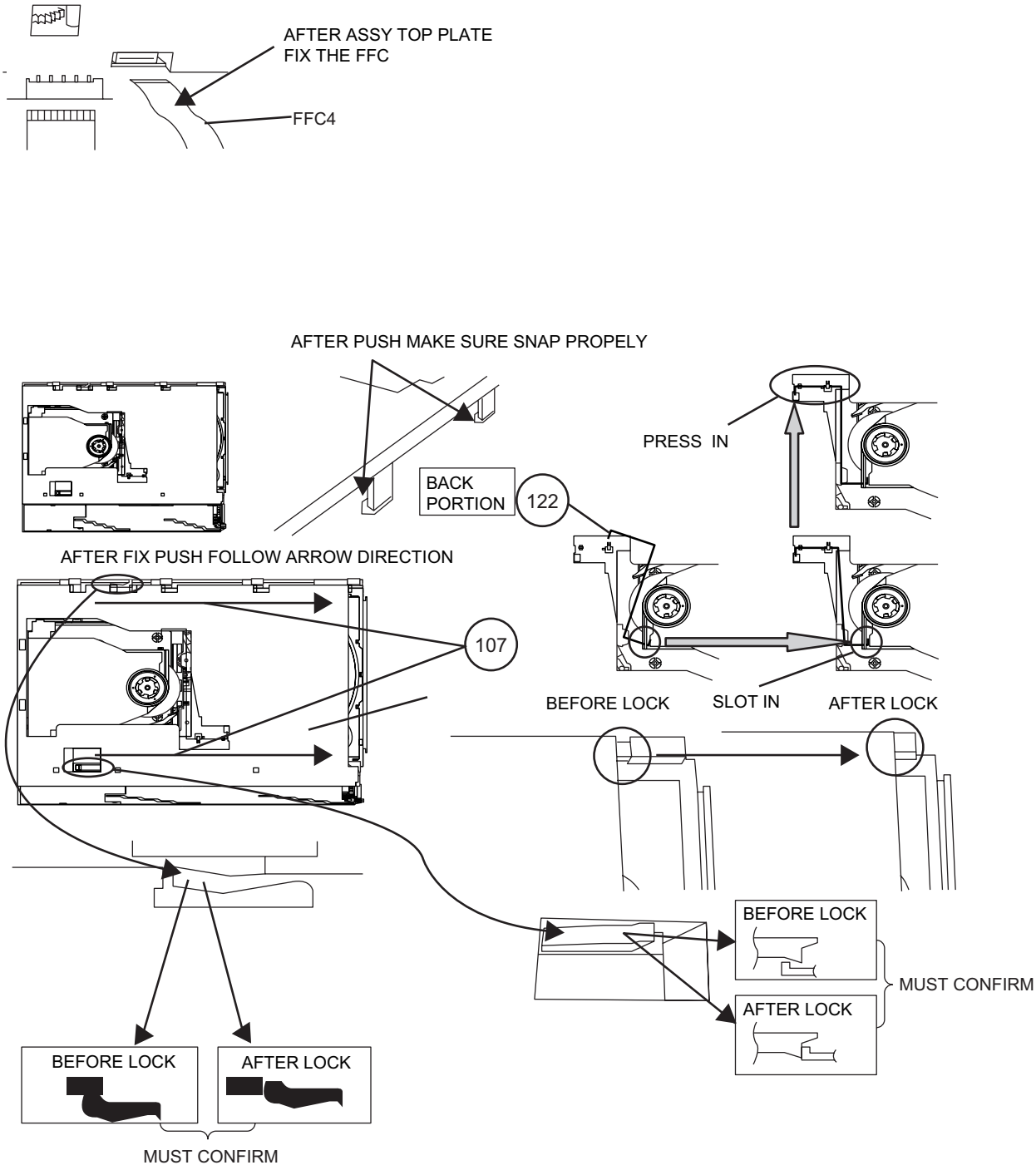
24



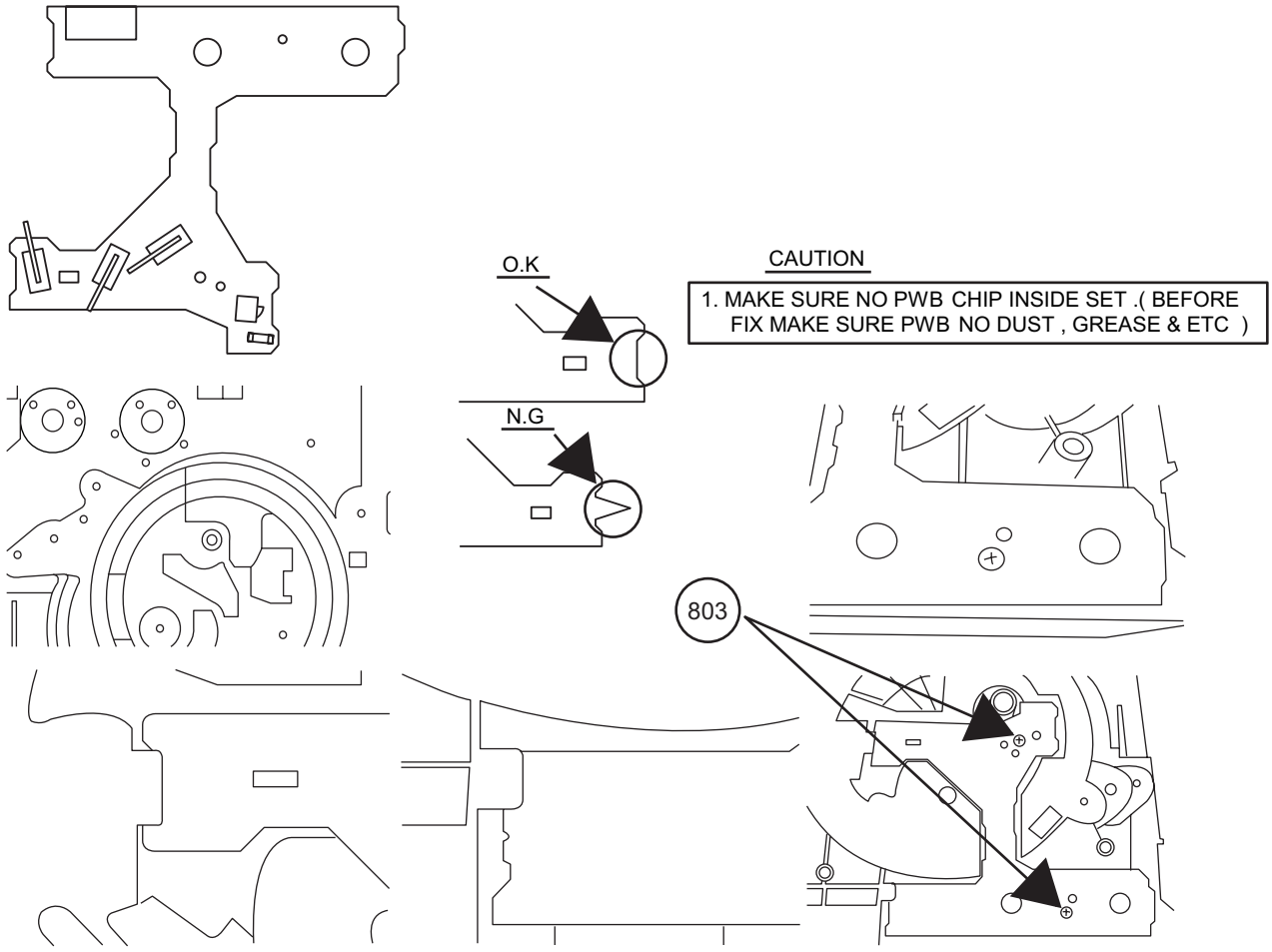
SCREW TORQUE
$3\ ^{+0.5}_{-0}$ kgf-cm



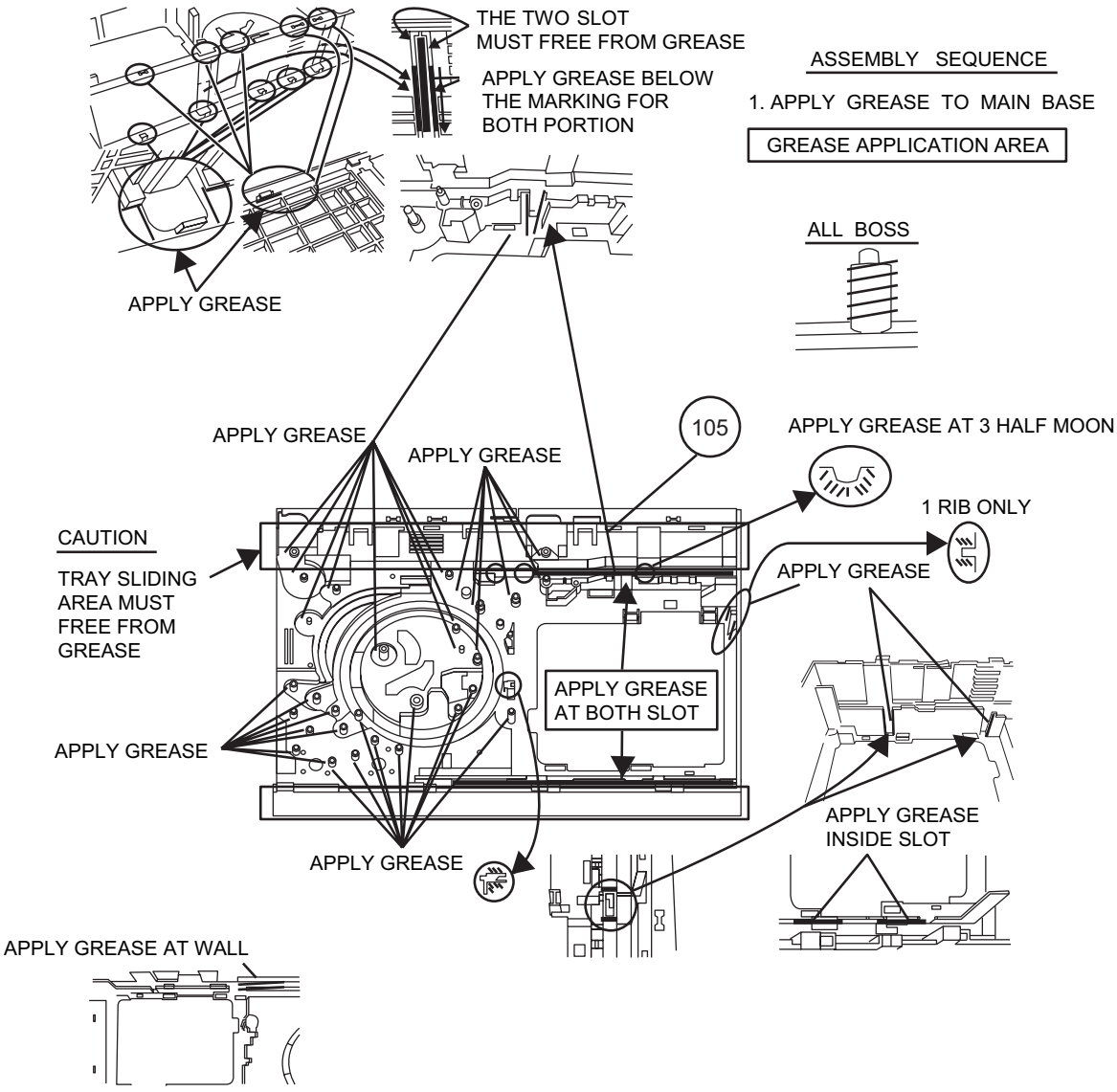
25


AFTER ASSY TOP PLATE
FIX THE FFC
FFC4
AFTER PUSH MAKE SURE SNAP PROPELY
PRESS IN
BACK
PORTION
122
AFTER FIX PUSH FOLLOW ARROW DIRECTION
107
BEFORE LOCK
SLOT IN
AFTER LOCK
BEFORE LOCK
AFTER LOCK
MUST CONFIRM
BEFORE LOCK
AFTER LOCK
MUST CONFIRM

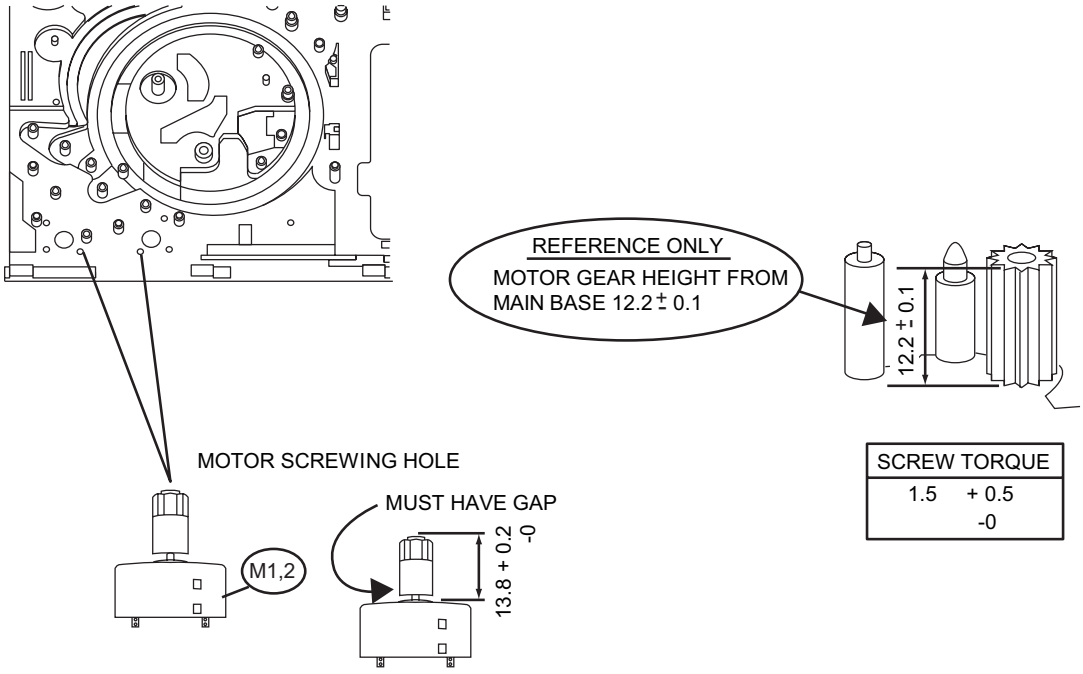
26

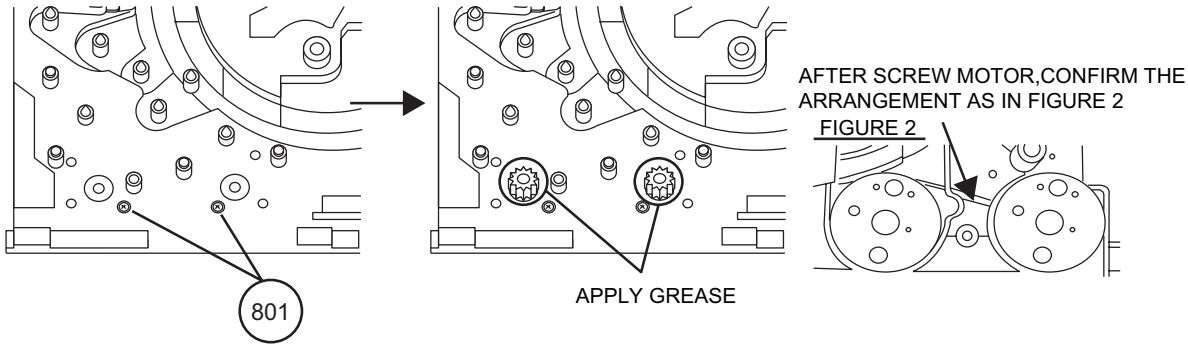

O.K
N.G
CAUTION
1. MAKE SURE NO PWB CHIP INSIDE SET .(BEFORE FIX MAKE SURE PWB NO DUST , GREASE & ETC)
803

27

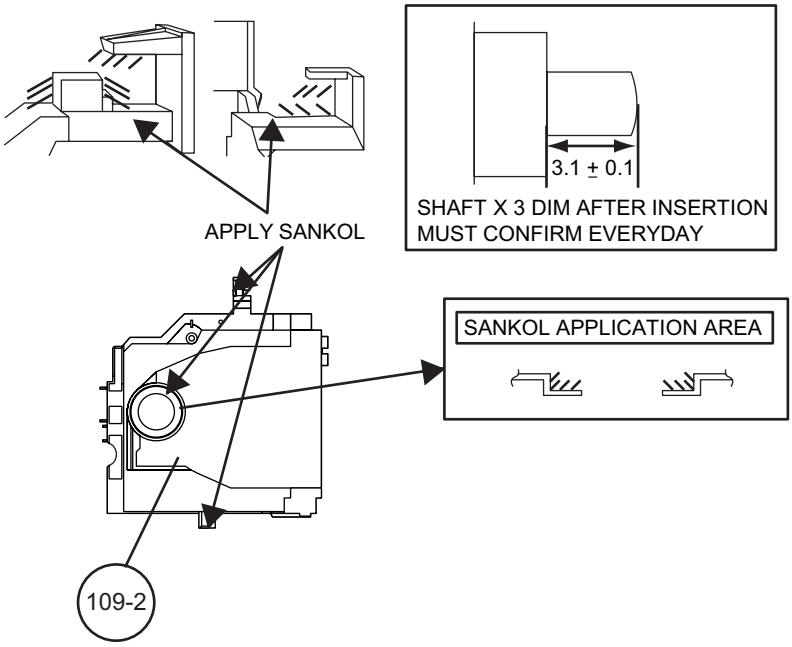

THE TWO SLOT
MUST FREE FROM GREASE
APPLY GREASE BELOW
THE MARKING FOR
BOTH PORTION
ASSEMBLY SEQUENCE
1. APPLY GREASE TO MAIN BASE
GREASE APPLICATION AREA
ALL BOSS
APPLY GREASE
APPLY GREASE
APPLY GREASE
105
APPLY GREASE AT 3 HALF MOON
1 RIB ONLY
CAUTION
TRAY SLIDING
AREA MUST
FREE FROM
GREASE
APPLY GREASE
APPLY GREASE
AT BOTH SLOT
APPLY GREASE
APPLY GREASE
APPLY GREASE
INSIDE SLOT
APPLY GREASE AT WALL

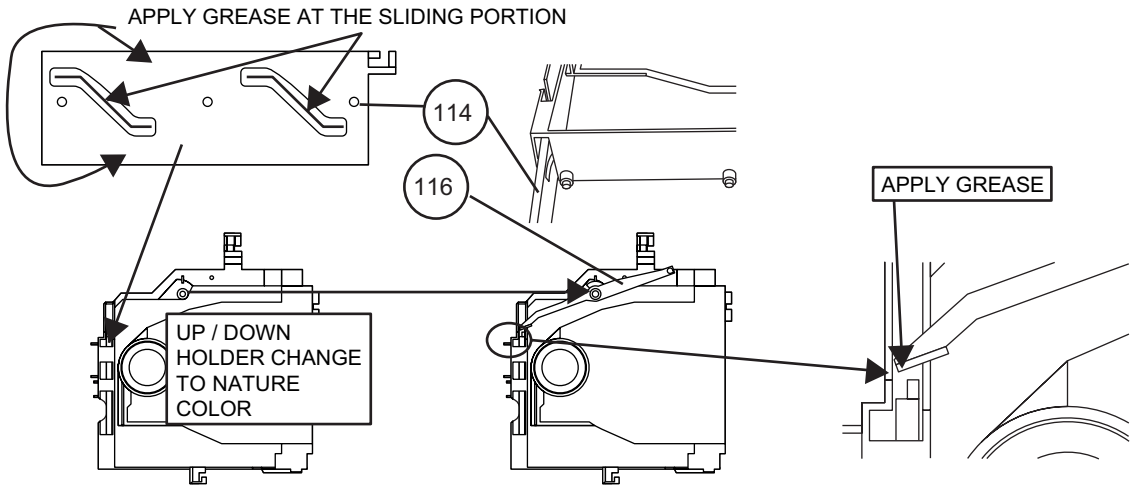
28


REFERENCE ONLY
MOTOR GEAR HEIGHT FROM
MAIN BASE 12.2 ± 0.1
12.2 ± 0.1
MOTOR SCREWING HOLE
M1,2
MUST HAVE GAP
13.8 + 0.2 -0
SCREW TORQUE
1.5 + 0.5 -0

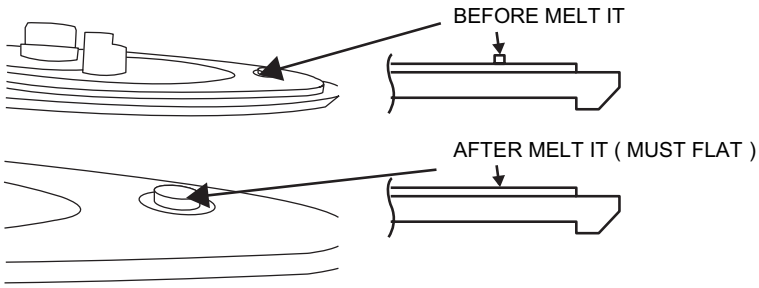

801
APPLY GREASE
AFTER SCREW MOTOR,CONFIRM THE ARRANGEMENT AS IN FIGURE 2
FIGURE 2

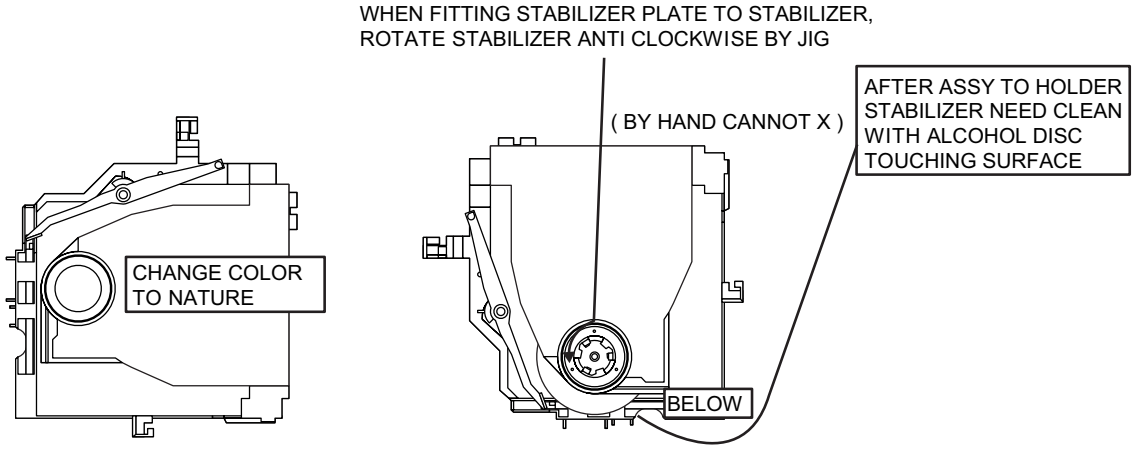
29


APPLY SANKOL
3.1 ± 0.1
SHAFT X 3 DIM AFTER INSERTION
MUST CONFIRM EVERYDAY
SANKOL APPLICATION AREA
109-2

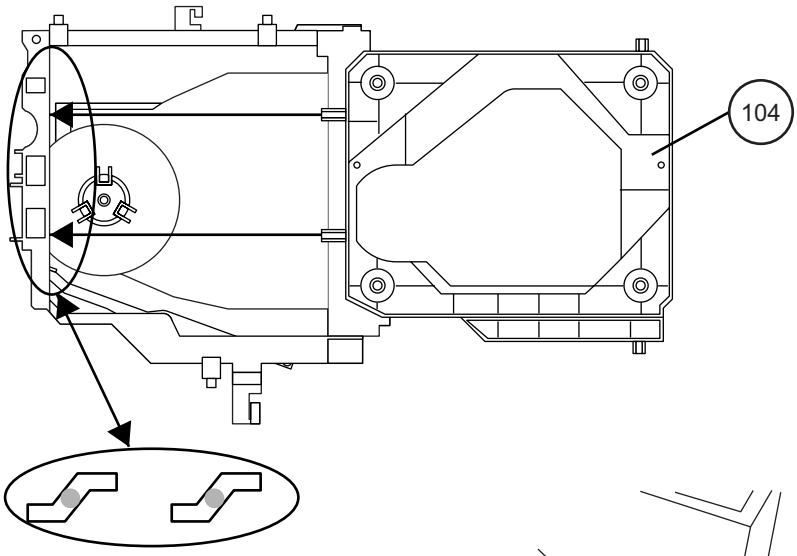

APPLY GREASE AT THE SLIDING PORTION
114
116
APPLY GREASE
UP / DOWN
HOLDER CHANGE
TO NATURE
COLOR

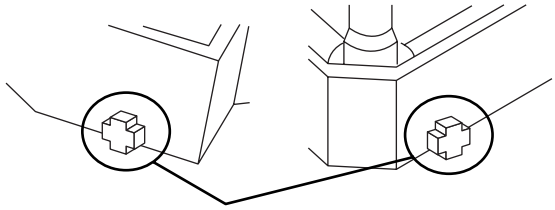
30

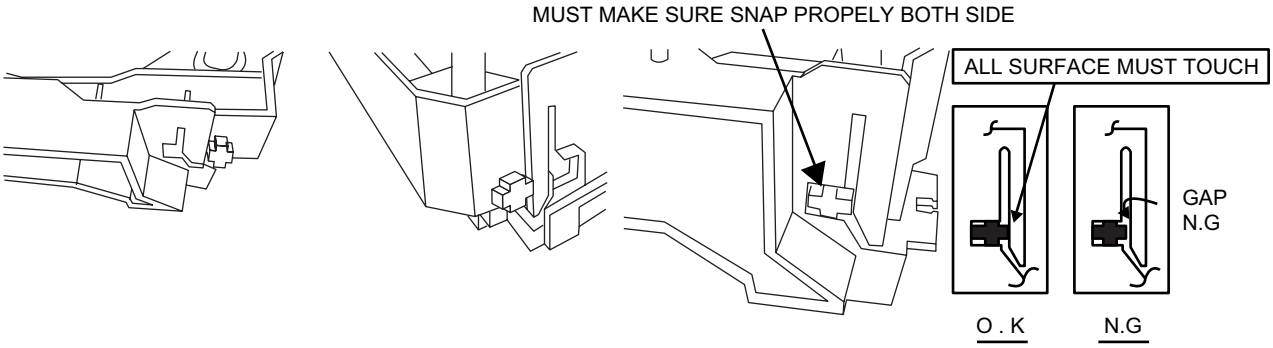

BEFORE MELT IT
AFTER MELT IT (MUST FLAT)


WHEN FITTING STABILIZER PLATE TO STABILIZER,
ROTATE STABILIZER ANTI CLOCKWISE BY JIG
(BY HAND CANNOT X)
AFTER ASSY TO HOLDER
STABILIZER NEED CLEAN
WITH ALCOHOL DISC
TOUCHING SURFACE
CHANGE COLOR
TO NATURE
BELOW

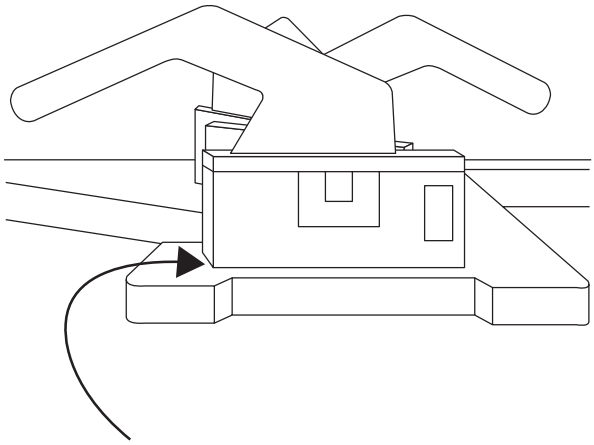
31


104


APPLY GREASE

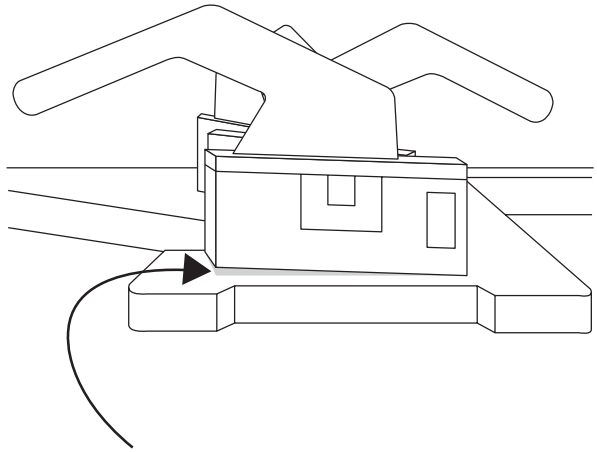

MUST MAKE SURE SNAP PROPELY BOTH SIDE
ALL SURFACE MUST TOUCH
GAP
N.G
O . K
N.G

32



NO GAP

O.K



HAVE GAP

N.G

CHAPTER 3. MECHANISM BLOCKS

[1] Caution on diassembly

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

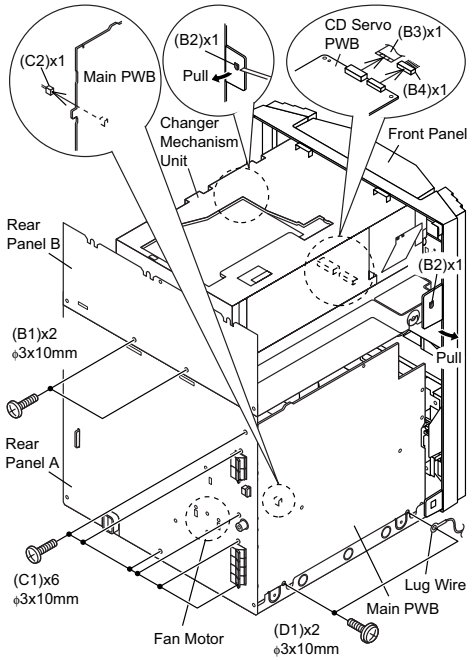
1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.

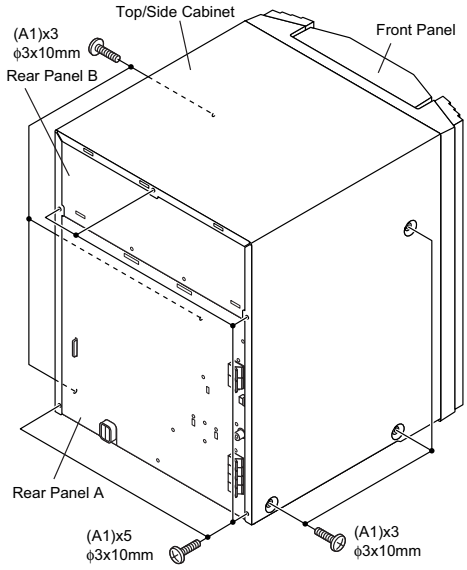
CD-MPS1000

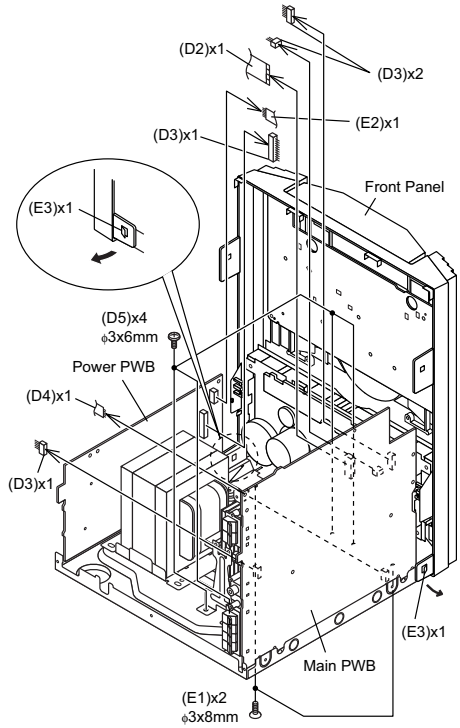
STEP	REMOVAL	PROCEDURE
1	Top/Side Cabinet	1. Screw ..... (A1) x11
2	Changer Unit/ Rear Panel B	1. Screw ..... (B1) x2 2. Hook ..... (B2) x2 3. Flat Cable..... (B3) x1 4. Socket ..... (B4) x1
3	Rear Panel A with Fan motor	1. Screw ..... (C1) x6 2. Socket ..... (C2) x1
4	Main PWB	1. Screw ..... (D1) x2 2. Flat Cable ..... (D2) x1 3. Socket ..... (D3) x4 4. Flat Wire..... (D4) x1 5. Screw ..... (D5) x4
5	Front Panel	1. Screw ..... (E1) x2 2. Flat Wire..... (E2) x1 3. Hook ..... (E3) x2
6	Tape Mechanism	1. Open the Cassette Cover. 2. Screw .....(F1) x6 3. Flat Cable .....(F2) x1
7	Display PWB	1. Knob ..... (G1) x1 2. Screw ..... (G2) x10 3. Hook ..... (G3) x5
8	Game Input PWB	1. Screw..... (H1) x2
9	CD Servo PWB	1. Screw ..... (J1) x2 2. Flat Cable ..... (J2) x2 3. Socket ..... (J3) x1 4. Hook ..... (J4) x1
10	Changer Mechanism Unit	1. Screw ..... (K1) x4 2. Changer Chassis .... (K2) x1
11	CD Mechanism	1. Screw .....(L1) x4

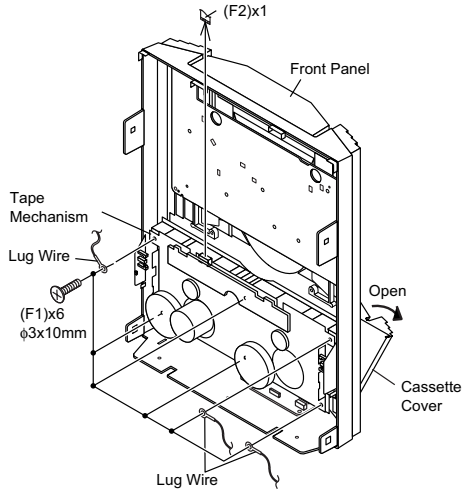
Note:

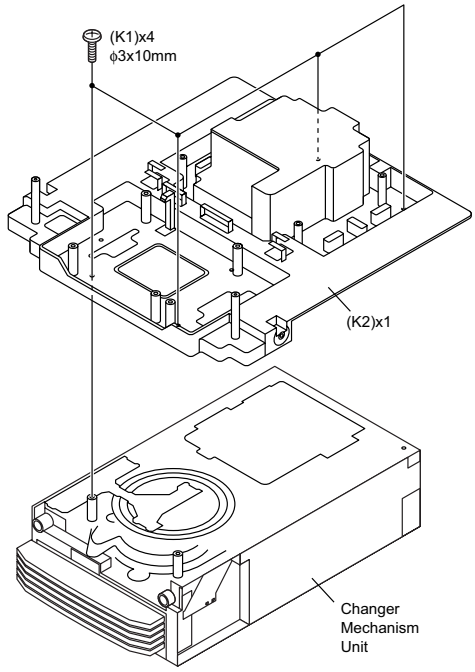
After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electro-static damage.

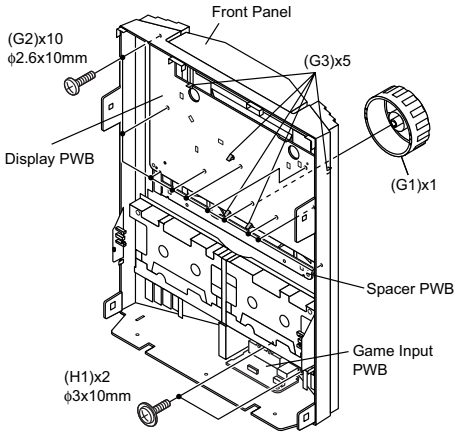


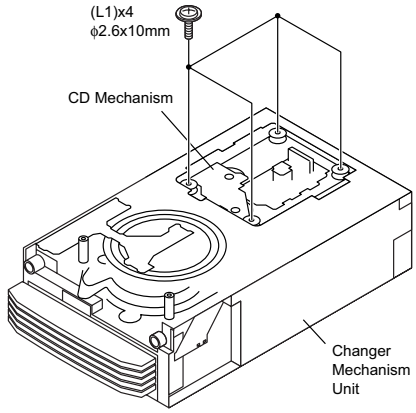


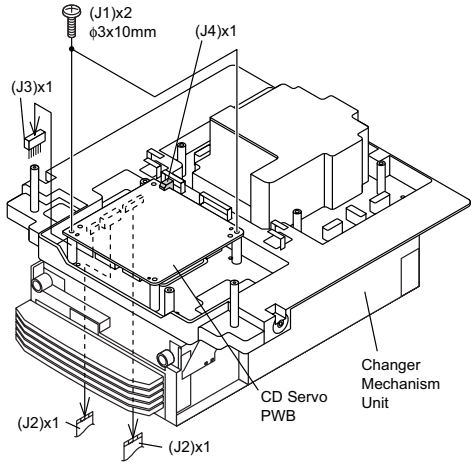



(F2)x1
Front Panel
Tape
Mechanism
Lug Wire
(F1)x6
ϕ3x10mm
Open
Cassette
Cover
Lug Wire


(K1)x4
ϕ3x10mm
(K2)x1
Changer
Mechanism
Unit

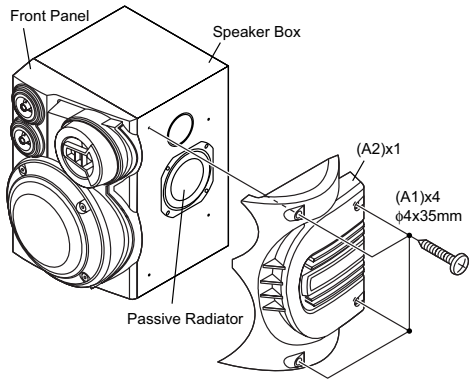

Front Panel
(G2)x10
ϕ2.6x10mm
(G3)x5
Display PWB
(G1)x1
Spacer PWB
Game Input
PWB
(H1)x2
ϕ3x10mm

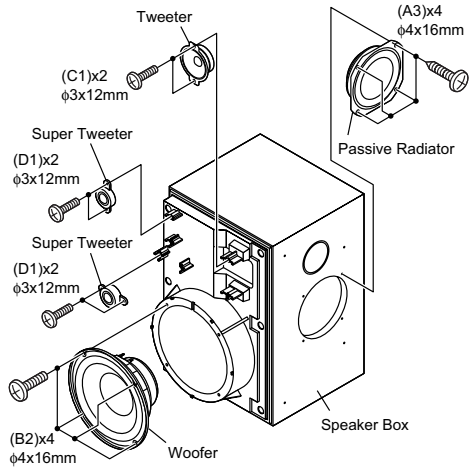

(L1)x4
ϕ2.6x10mm
CD Mechanism
Changer
Mechanism
Unit

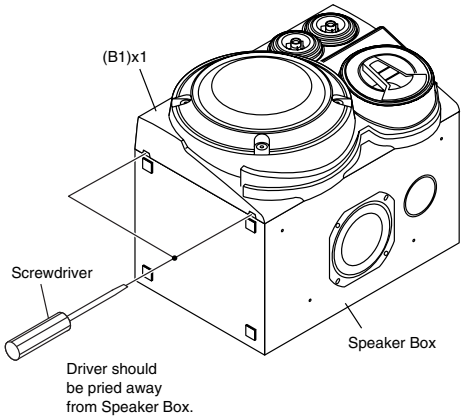

(J1)x2
ϕ3x10mm
(J4)x1
(J3)x1
Changer
Mechanism
Unit
CD Servo
PWB
(J2)x1
(J2)x1

CP-MPS1000

STEP	REMOVAL	PROCEDURE
1	Passive Radiator	1. Screw ..... (A1) x4 2. Side Panel ..... (A2) x1 3. Screw ..... (A3) x4
2	Woofer	1. Front Panel ..... (B1) x1 2. Screw ..... (B2) x4
3	Tweeter	1. Screw ..... (C1) x2
4	Super Tweeter	1. Screw ..... (D1) x4







[2] Removing and reinstalling the main parts

1. TAPE MECHANISM SECTION

Perform steps 1 to 5 and 6 of the disassembly method to remove the tape mechanism.

1.1. How to remove the record/playback and erase heads (TAPE 2) (See Fig. 1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

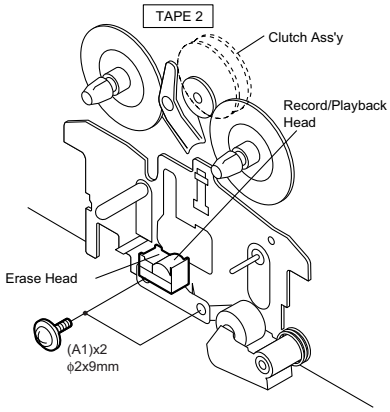


Figure 1

1.2. How to remove the playback head (TAPE 1) (See Fig. 2)

1. When you remove the screws (B1) x 2 pcs., the playback head can be removed.

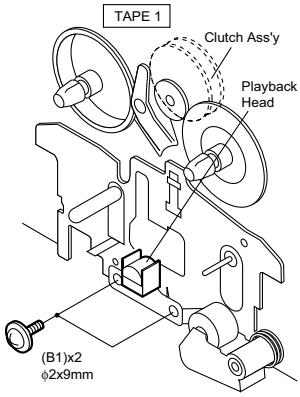


Figure 2

1.3. How to remove the pinch roller (TAPE 1/2) (See Fig. 3)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow <B>.

Note:
When installing the pinch roller, pay attention to the spring mounting position.

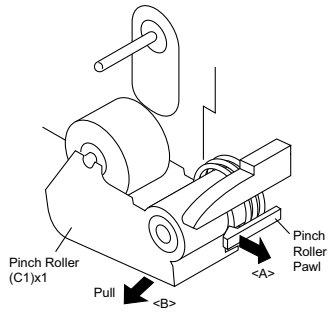


Figure 3

1.4. How to remove the belt (TAPE 2) (See Fig. 4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

1.5. How to remove the belt (TAPE 1) (See Fig. 4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

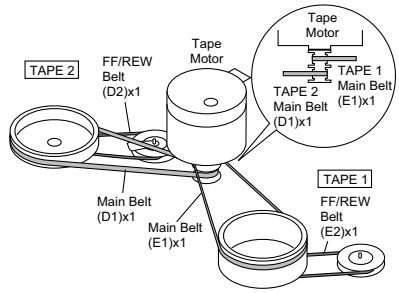


Figure 4

1.6. How to remove the motor (See Fig. 5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

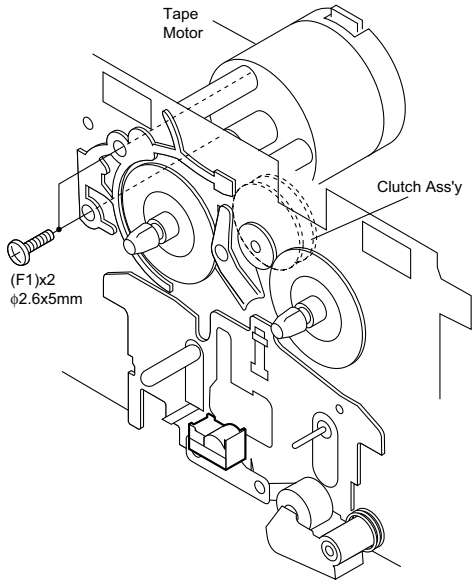


Figure 5

2. CD MECHANISM SECTION

Perform steps 1, 2, 9, 10 and 11 of the disassembly method to remove the CD mechanism.

2.1. Remove the pickup. (See Fig. 1)

1. Remove the stop washer (A1) x 1 pc., to remove the gear (A2) x 1 pc.
2. Remove the screws (A3) x 2 pcs., to remove the shaft (A4) x 1 pc.
3. Remove the pickup.

Note
After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

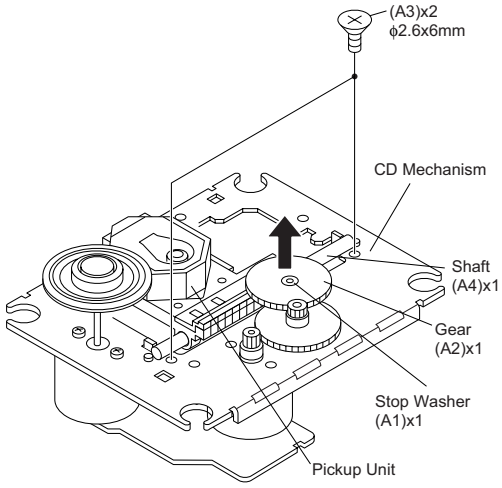


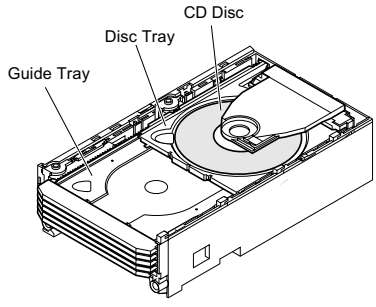
Figure 1

3. CHANGER MECHANISM SECTION

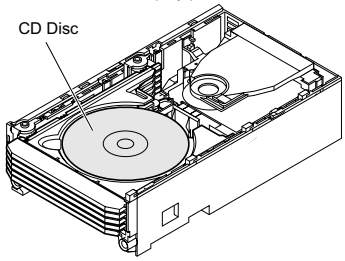
Perform steps 1, 2, 9 and 10 of the disassembly method to remove the CD changer mechanism.

3.1. How to remove CD Disc (See Fig. 2~5)

1. When CD is at play position (Figure 2), rotate reduction gear C clock-wise as shown in Figure 3 Until disc tray is at stock position, then rotate further to eject the disc tray so that CD can be removed from the tray.



CD At play position.



CD At stock position.

Figure 2

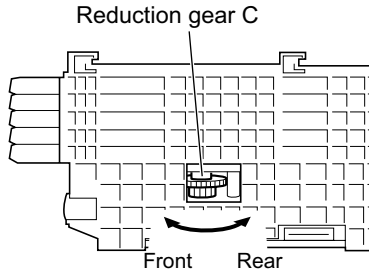


Figure 3

2. In another case, if CD mechanism is at tray No.1 play position and to remove CD located in tray No.3, the procedure is as follows:

   If the gear up down board is located at tray No.1 position, then rotate gear clock-wise until it at stock position. Rotate reduction gear D clockwise (Figure 4) to move the CD mechanism to tray No.3 position.This is confirmed by checking the gear up down board position by the marking as indicated on the main chassis as shown in Figure 5.

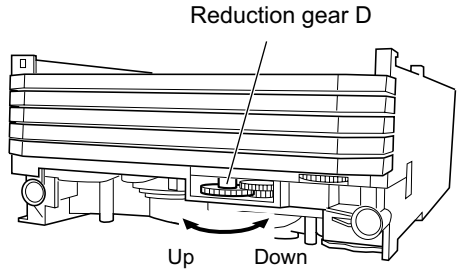


Figure 4

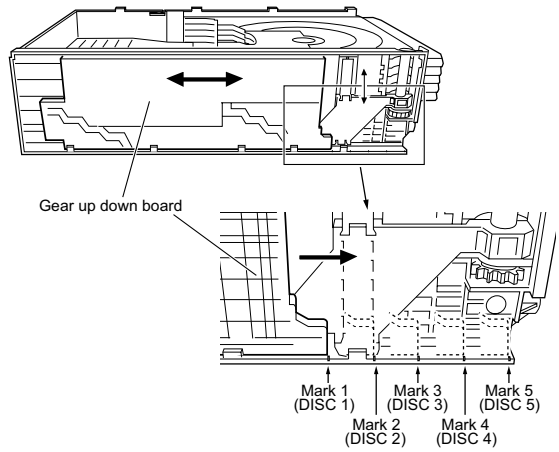


Figure 5

3.2. How to Remove the tray motor/main cam motor/5-Changer Motor PWB (See Fig. 6)

1. Remove the screws (A1)x 2 pcs., to remove tray motor/main cam motor/5-Changer Motor PWB.

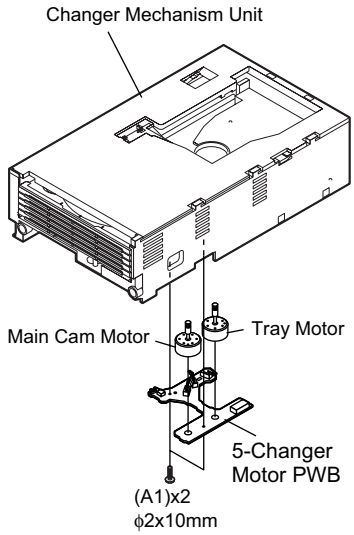


Figure 6

NOTE: There are 2 more screws tighten the motors at the bottom of main chassis. Before performing procedure 1 above, disc stop spring, top plate sear up down board and trays must be removed, then only the 2 screws can be untighten.

CHAPTER 4. DIAGRAMS

[1] Block diagrams

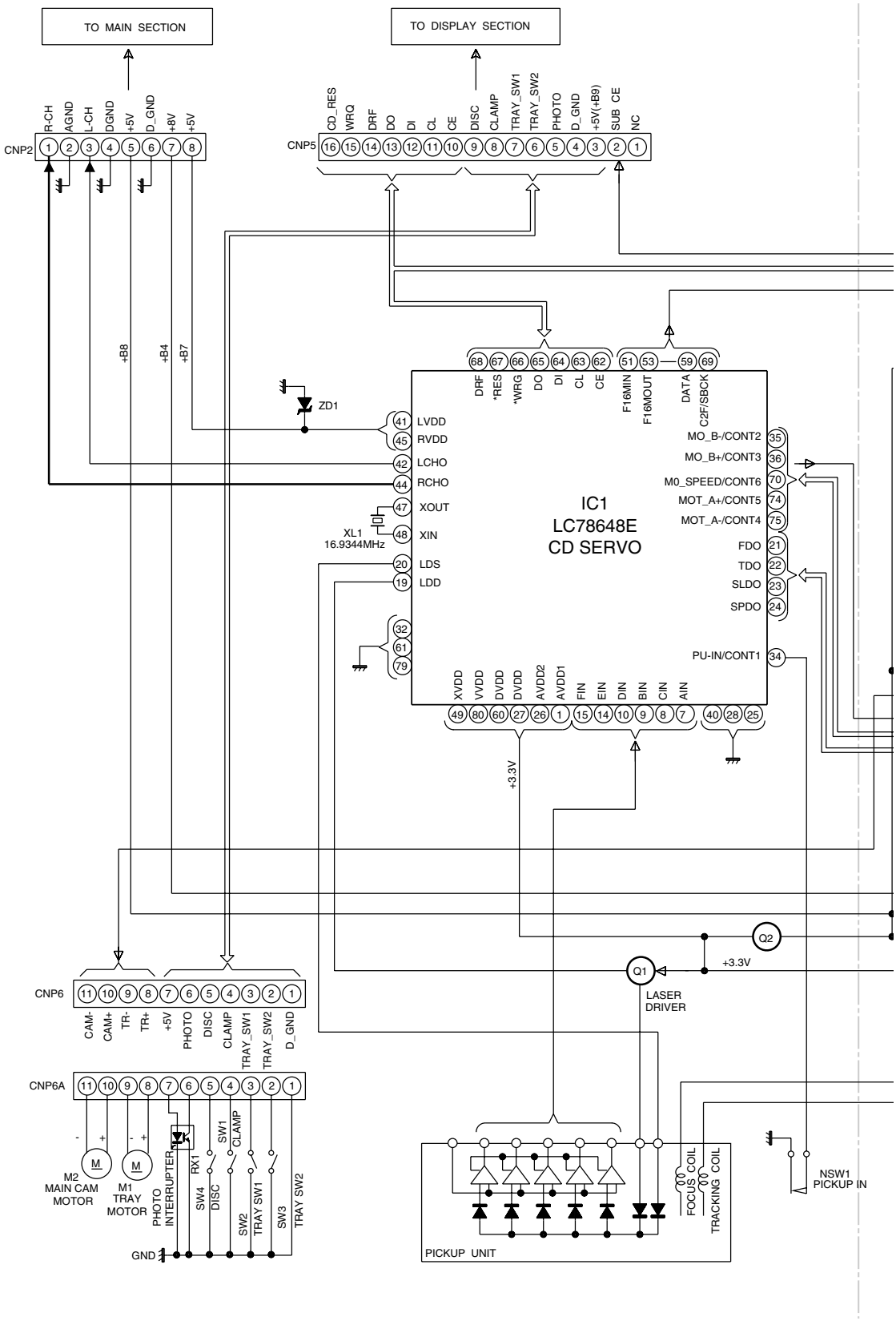


Figure 4-1 BLOCK DIAGRAM (1/4)

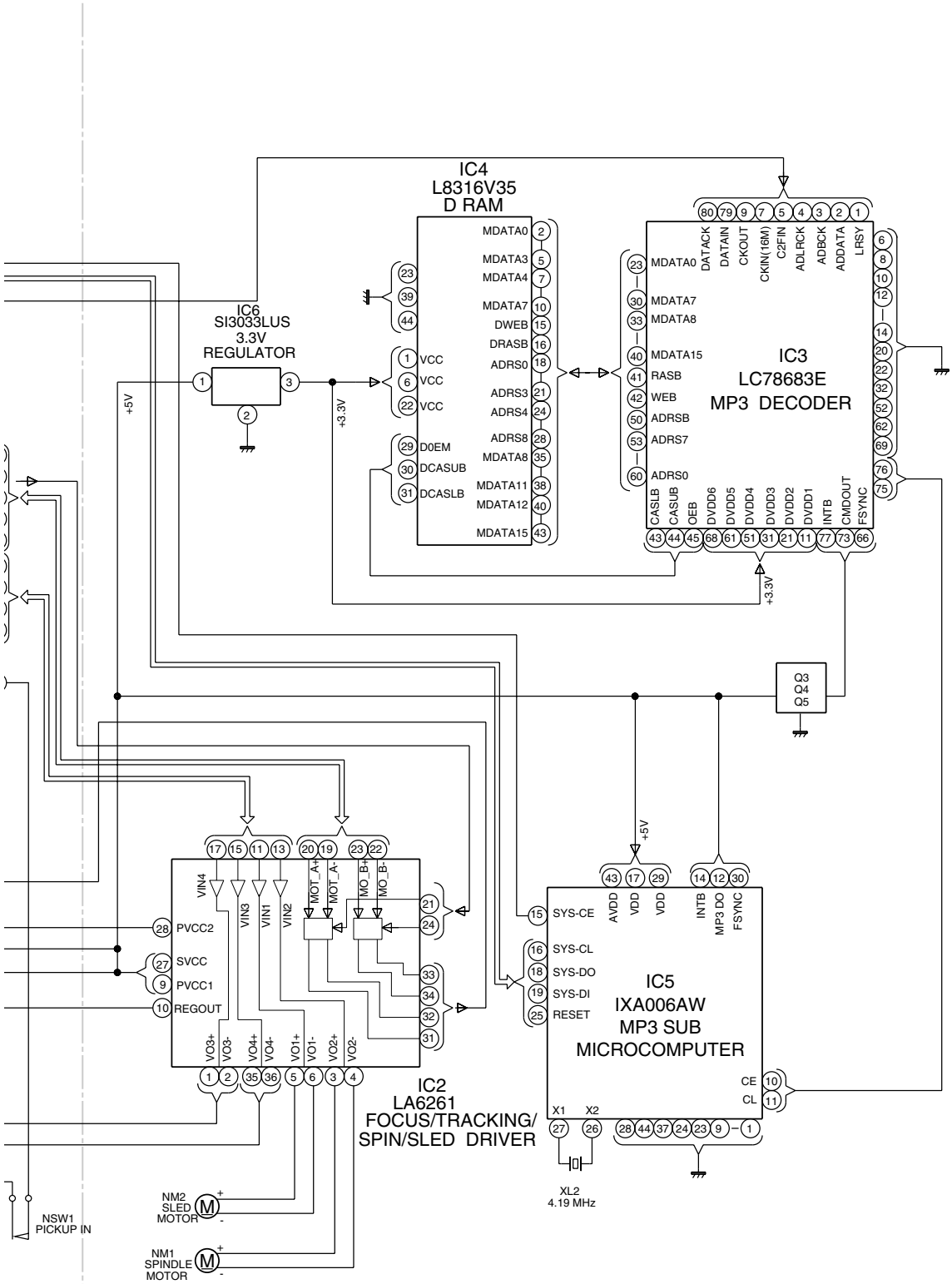


Figure 4-2 BLOCK DIAGRAM (2/4)

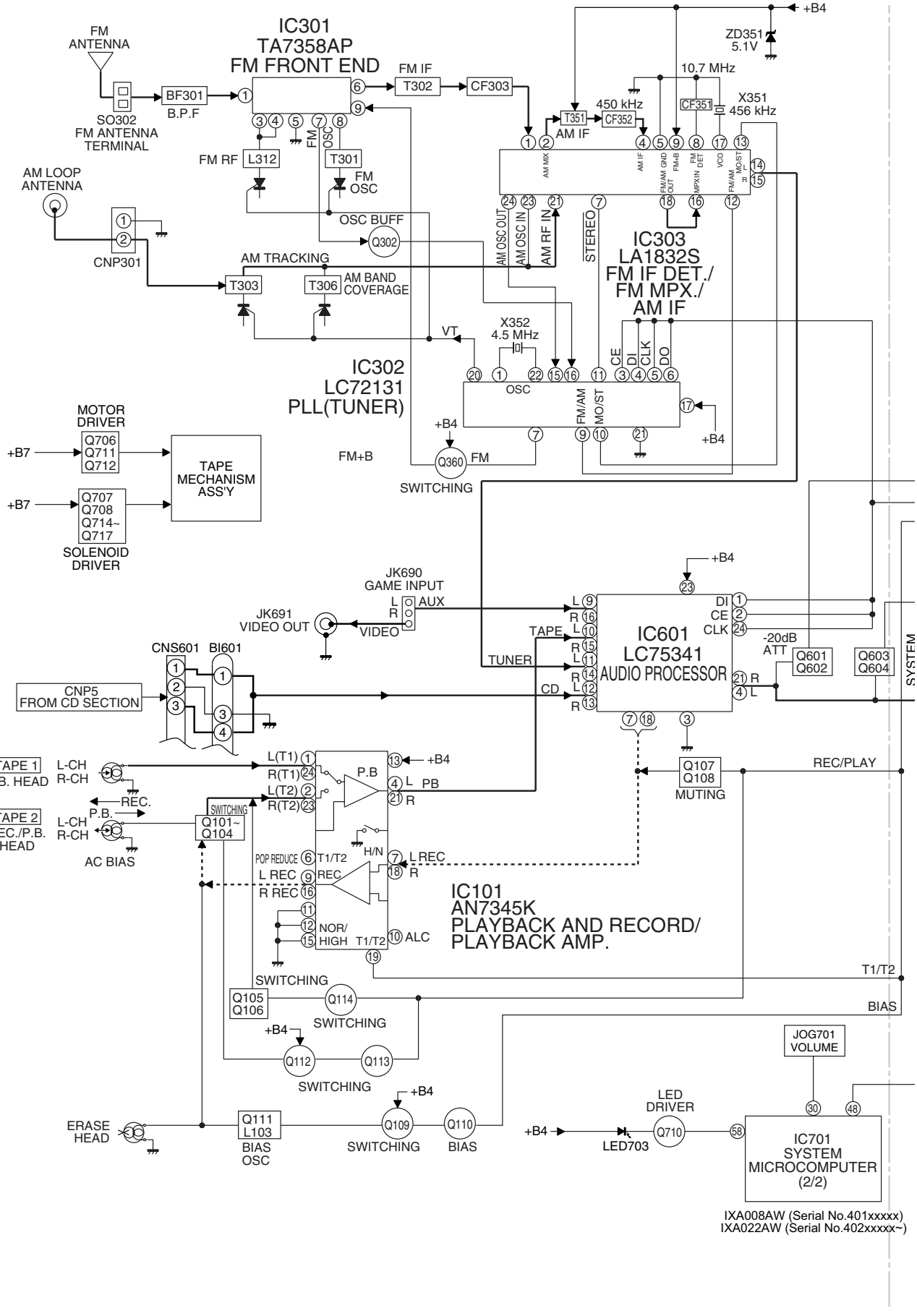


Figure 4-3 BLOCK DIAGRAM (3/4)

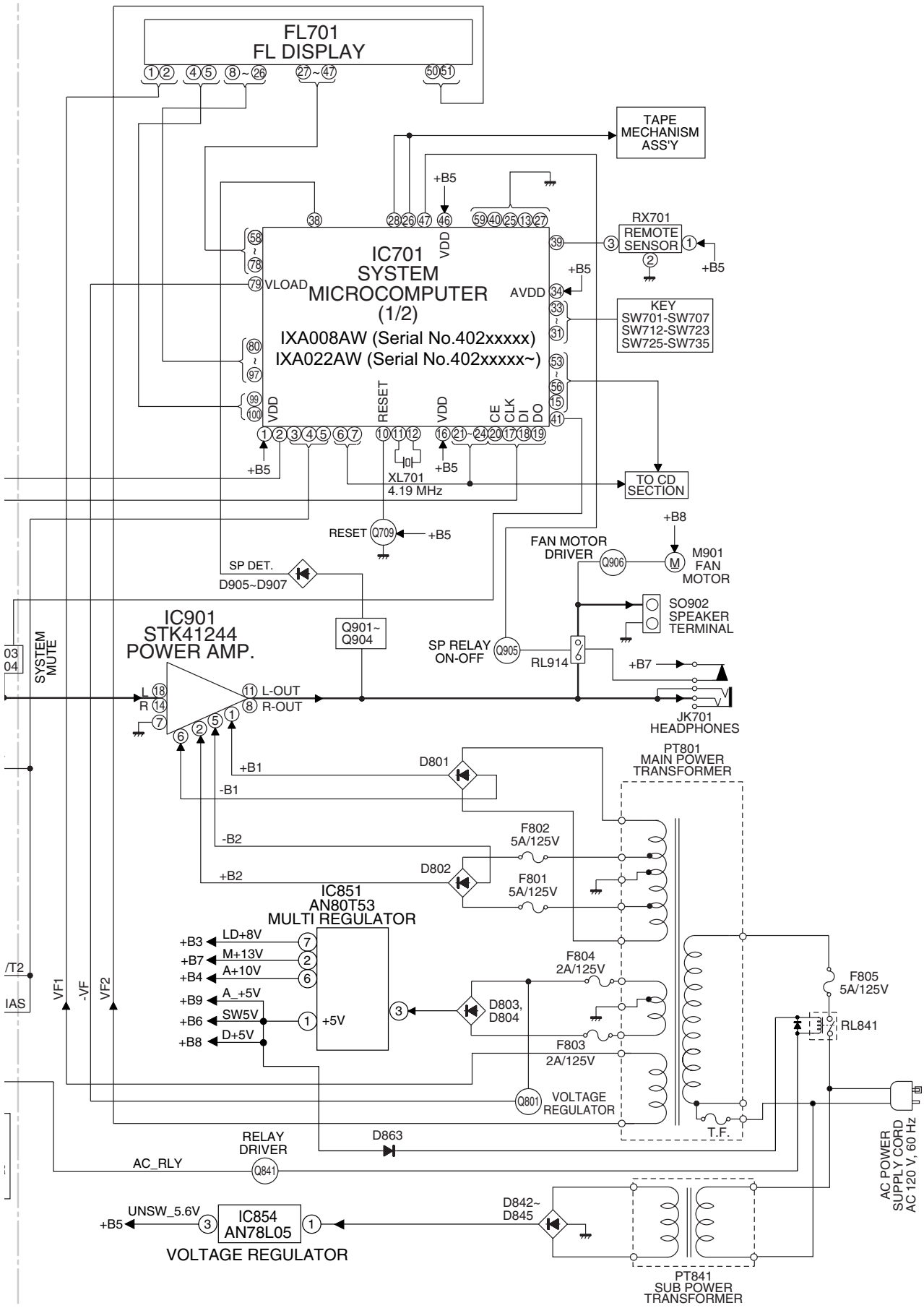


Figure 4-4 BLOCK DIAGRAM (4/4)

CHAPTER 5. CIRCUIT DESCRIPTION

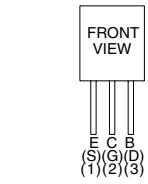
[1] Notes on schematic diagram

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ “ (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
JOG701	VOLUME	ON—OFF
NSW1	PICKUP IN	ON—OFF
SW1	CLAMP	ON—OFF
SW2	TRAY SW1	ON—OFF
SW3	TRAY SW2	ON—OFF
SW4	DISC	ON—OFF
SW701	POWER ON/STAND-BY	ON—OFF
SW702	CLOCK/TIMER	ON—OFF
SW703	TUNING UP	ON—OFF
SW704	TUNING DOWN	ON—OFF
SW705	FAST REWIND/PRESET DOWN	ON—OFF
SW706	EQUALIZER	ON—OFF
SW707	FAST FORWARD/PRESET UP	ON—OFF
SW712	TUNER (BAND)	ON—OFF
SW713	CD	ON—OFF
SW714	TAPE	ON—OFF
SW715	GAME/VIDEO	ON—OFF
SW716	X-BASS/DEMO	ON—OFF

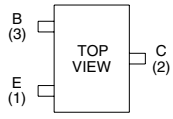
REF. NO	DESCRIPTION	POSITION
SW717	LEFT	ON—OFF
SW718	UP	ON—OFF
SW719	CHARACTER	ON—OFF
SW720	RIGHT	ON—OFF
SW721	ENTER	ON—OFF
SW722	DOWN	ON—OFF
SW723	MP3 NAVIGATION	ON—OFF
SW725	PLAY/REPEAT	ON—OFF
SW726	STOP	ON—OFF
SW727	REC/PAUSE	ON—OFF
SW728	MEMORY/SET	ON—OFF
SW729	OPEN/CLOSE	ON—OFF
SW730	DIRECT PLAY	ON—OFF
SW731	DISC2	ON—OFF
SW732	DISC4	ON—OFF
SW733	DISC5	ON—OFF
SW734	DISC3	ON—OFF
SW735	DISC1	ON—OFF

[2] Types of transistor and LED

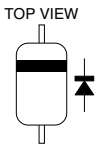


KRC104 M
KTA1266 GR
KTA1271 Y
KTA1273 Y
KTA1274 Y

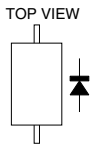
KTC3194 Y
KTC3199 GR
KTC3200 GR
KTC3203 Y



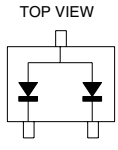
KRA107 S
KRC102 S
KRC104 S
KTA1504 Y
KTC3875 GR
2SD601 AR



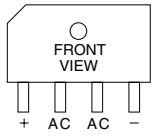
DS1SS133



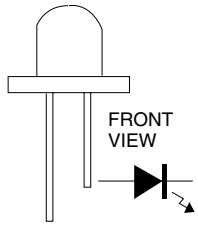
1N4004S



KDS184



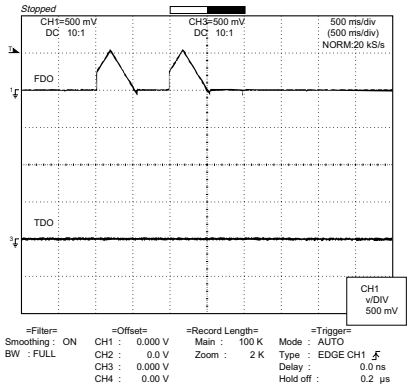
D10XB60F



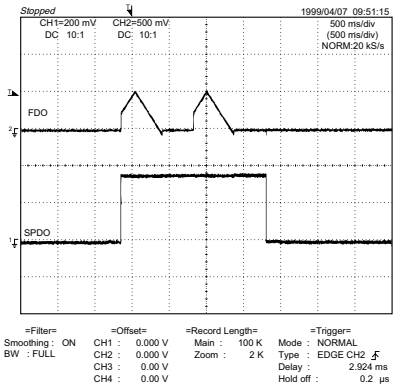
304VT2H3
SDPB50CD

[3] Waveforms of CD circuit

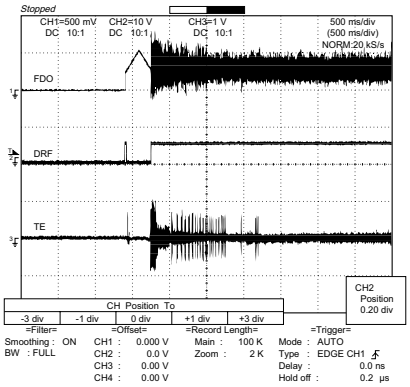
1 IC1 (21)
2 IC1 (22)



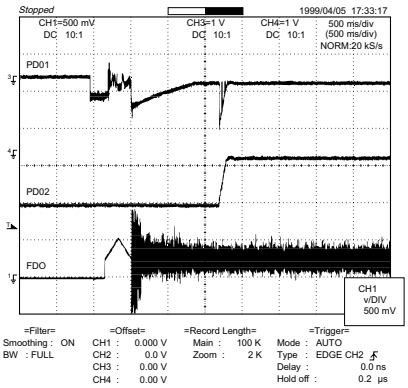
1 IC1 (21)
6 IC1 (24)



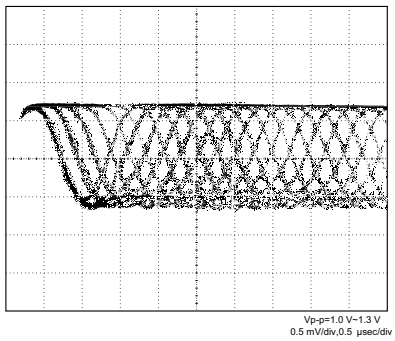
1 IC1 (21)
3 IC1 (68)
4 IC1 (17)



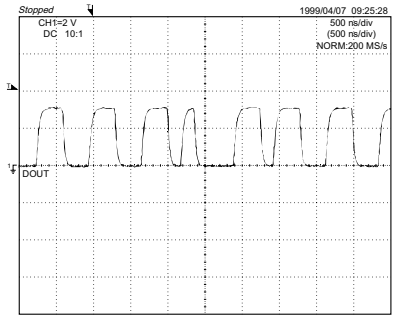
7 IC1 (76)
8 IC1 (77)
1 IC1 (21)



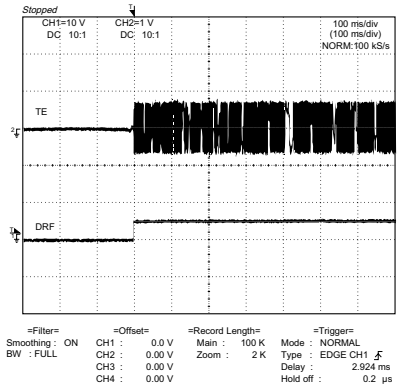
5 IC1 (4)



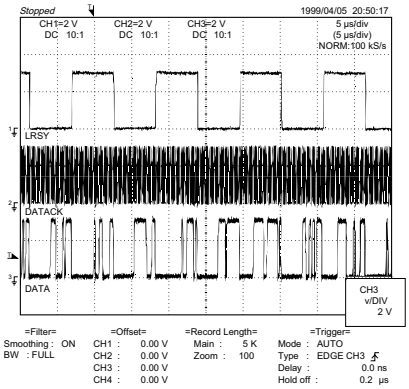
9 IC1 (39)



4 IC1 (17)
3 IC1 (68)



10 IC1 (57)
11 IC1 (58)
12 IC1 (59)



[4] Voltage

IC1	
PIN NO.	VOLTAGE
1	3.20 V
2	1.61V
3	1.61 V
4	1.60 V
5	1.61 V
6	3.08 V
7	1.65 V
8	1.65 V
9	1.65 V
10	1.65 V
11	1.48 V
12	0 V
13	1.65 V
14	0 V
15	1.65 V
16	1.47 V
17	1.48 V
18	0 V
19	0 V
20	0 V
21	1.60 V
22	0 V
23	1.61 V
24	1.61 V
25	0 V
26	0 V
27	3.20 V
28	0 V
29	3.20 V
30	0 V
31	0 V
32	1.59 V
33	1.60 V
34	3.20 V
35	0 V
36	0 V
37	0 V
38	0 V
39	0 V
40	0 V
41	3.61 V
42	0 V
43	0 V
44	1.80 V
45	3.60 V
46	0 V
47	1.45 V
48	1.49 V
49	3.19 V
50	3.79 V
51	0 V
52	0 V
53	0 V
54	0 V
55	0 V
56	0 V
57	0 V
58	0 V
59	0 V
60	3.20 V
61	0 V
62	0 V
63	0.53 V
64	0 V
65	5.16 V
66	5.18 V
67	4.68 V
68	0 V
69	0 V
70	0 V
71	0 V
72	0 V
73	0 V
74	4.86 V
75	4.86 V
76	3.01 V
77	0 V
78	1.12 V
79	0 V
80	3.20 V

IC2	
PIN NO.	VOLTAGE
1	2.10 V
2	2.20 V
3	2.10 V
4	2.20 V
5	2.10 V
6	2.20 V
7	0 V
8	4.37 V
9	5.02 V
10	3.20 V
11	1.62 V
12	1.65 V
13	1.62 V
14	1.65 V
15	1.62 V
16	0 V
17	1.62 V
18	1.64 V
19	4.71 V
20	4.71 V
21	3.92 V
22	3.11 V
23	3.10 V
24	2.50 V
25	1.65 V
26	0 V
27	5.02 V
28	8.68 V
29	5.02 V
30	0.59 V
31	0.71 V
32	0 V
33	0 V
34	0 V
35	2.11 V
36	2.20 V

IC101	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.57 V
4	2.03 V
5	0.44 V
6	0 V
7	0 V
8	0.58 V
9	3.45 V
10	3.35 V
11	0 V
12	0 V
13	6.97 V
14	4.16 V
15	0 V
16	3.42 V
17	0.57 V
18	0 V
19	0 V
20	0.41 V
21	2.03 V
22	0.57 V
23	0 V
24	0 V

IC301	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.29 V
4	0.20 V
5	0 V
6	0.29 V
7	0.26 V
8	0.29 V
9	0.29 V

IC302	
PIN NO.	VOLTAGE
1	2.57 V
2	0 V
3	0 V
4	0 V
5	0 V
6	5.22 V
7	10.18 V
8	4.76 V
9	0 V
10	0 V
11	5.23 V
12	0 V
13	5.23 V
14	0 V
15	0 V
16	2.59 V
17	5.24 V
18	0 V
19	0 V
20	10.18 V
21	0 V
22	2.57 V

IC303	
PIN NO.	VOLTAGE
1	1.97 V
2	5.15 V
3	1.97 V
4	1.96 V
5	0 V
6	0 V
7	5.21 V
8	3.59 V
9	5.15 V
10	0 V
11	2.01 V
12	1.25 V
13	2.27 V
14	1.13 V
15	1.10 V
16	1.96 V
17	0 V
18	1.29 V
19	2.08 V
20	1.29 V
21	1.95 V
22	1.95 V
23	5.15 V
24	3.65 V

IC601	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	5.10 V
5	5.10 V
6	5.10 V
7	5.10 V
8	5.11 V
9	5.10 V
10	5.10 V
11	5.10 V
12	5.10 V
13	5.10 V
14	5.10 V
15	5.10 V
16	5.10 V
17	5.10V
18	5.10 V
19	5.10 V
20	5.10 V
21	5.10 V
22	5.10 V
23	10.20 V
24	0 V

IC901	
PIN NO.	VOLTAGE
1	52.80 V
2	21.60 V
3	9.60 V
4	-9.70 V
5	-21.60V
6	-48.80 V
7	0 V
8	-19.70 V
9	-22.90 V
10	-22.10 V
11	-18.60 V
12	-51.30 V
13	51.40V
14	-0.14 V
15	-0.13 V
16	-50.04 V
17	-0.14 V
18	-0.14 V

IC851	
PIN NO.	VOLTAGE
1	5.22 V
2	13.11 V
3	20.66 V
4	0 V
5	19.72 V
6	10.22 V
7	8.67 V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.74 V	51	0 V
2	4.65 V	52	0 V
3	0 V	53	0 V
4	4.70 V	54	0 V
5	4.72V	55	5.17 V
6	4.72 V	56	5.17 V
7	0 V	57	-29.70 V
8	0 V	58	0 V
9	0 V	59	-0.26 V
10	4.83 V	60	-0.24 V
11	2.27 V	61	-0.22 V
12	1.99 V	62	-0.20 V
13	0 V	63	-0.19 V
14	4.73 V	64	-0.19 V
15	0 V	65	-0.18 V
16	4.74 V	66	-0.17 V
17	0 V	67	-0.16 V
18	0 V	68	0 V
19	5.22 V	69	-29.90 V
20	0 V	70	-29.90 V
21	0 V	71	-29.90 V
22	4.68 V	72	-29.90 V
23	0 V	73	-29.90 V
24	0 V	74	-19.76 V
25	0 V	75	-27.40 V
26	5.20 V	76	-24.87 V
27	0 V	77	-22.29 V
28	5.01 V	78	-22.30 V
29	5.01 V	79	-30.13 V
30	2.64 V	80	-27.43 V
31	5.01 V	81	-14.50 V
32	5.01 V	82	-27.20 V
33	0 V	83	-19.30 V
34	0 V	84	-6.08 V
35	5.01 V	85	-21.85 V
36	1.67 V	86	-27.22 V
37	5.20 V	87	-21.89 V
38	5.01 V	88	-17.00 V
39	4.87 V	89	-27.38 V
40	0 V	90	-27.10 V
41	2.02 V	91	-27.07 V
42	0 V	92	-27.00 V
43	13.10 V	93	-27.00 V
44	0 V	94	-27.35 V
45	0 V	95	-26.27 V
46	4.74 V	96	-27.11 V
47	0 V	97	-27.00 V
48	4.61 V	98	-27.07 V
49	0 V	99	-27.07 V
50	0 V	100	-26.83 V

— **MEMO** —

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] Schematic diagram

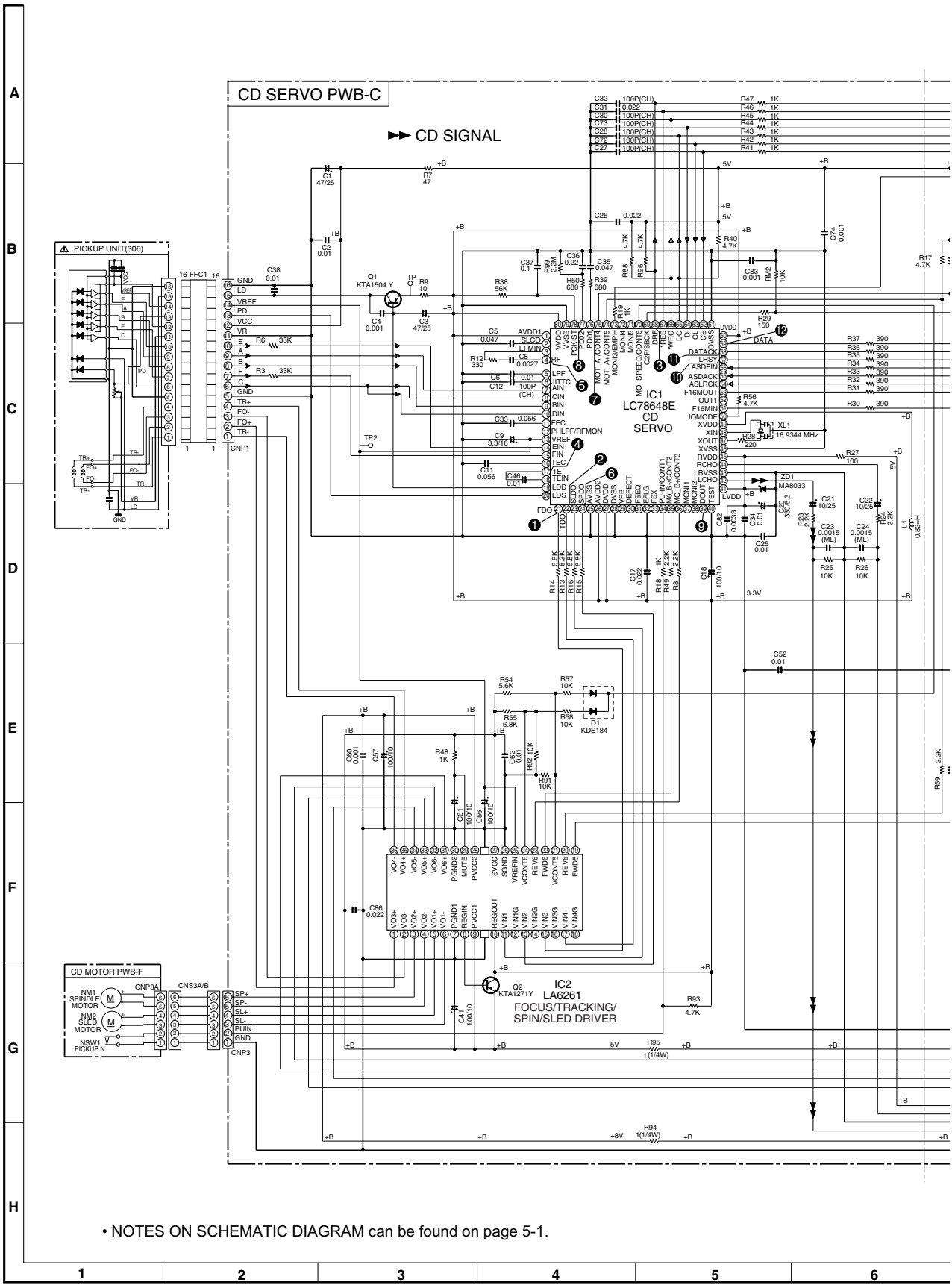
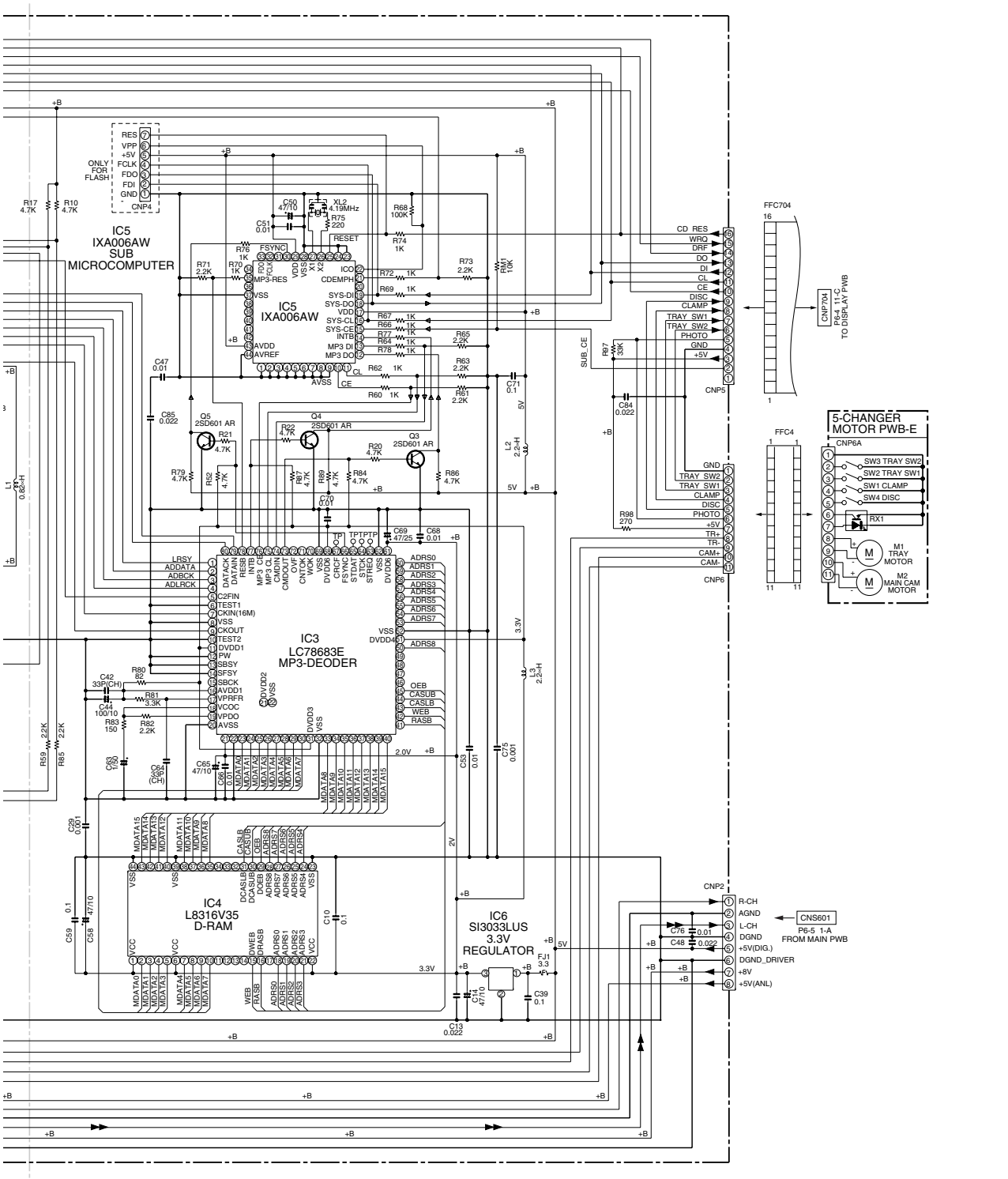


Figure 6-1 SCHEMATIC DIAGRAM (1/10)



T ❶ ⓬ 5 2

	7	8	9	10	11	12

Figure 6-2 SCHEMATIC DIAGRAM (2/10)

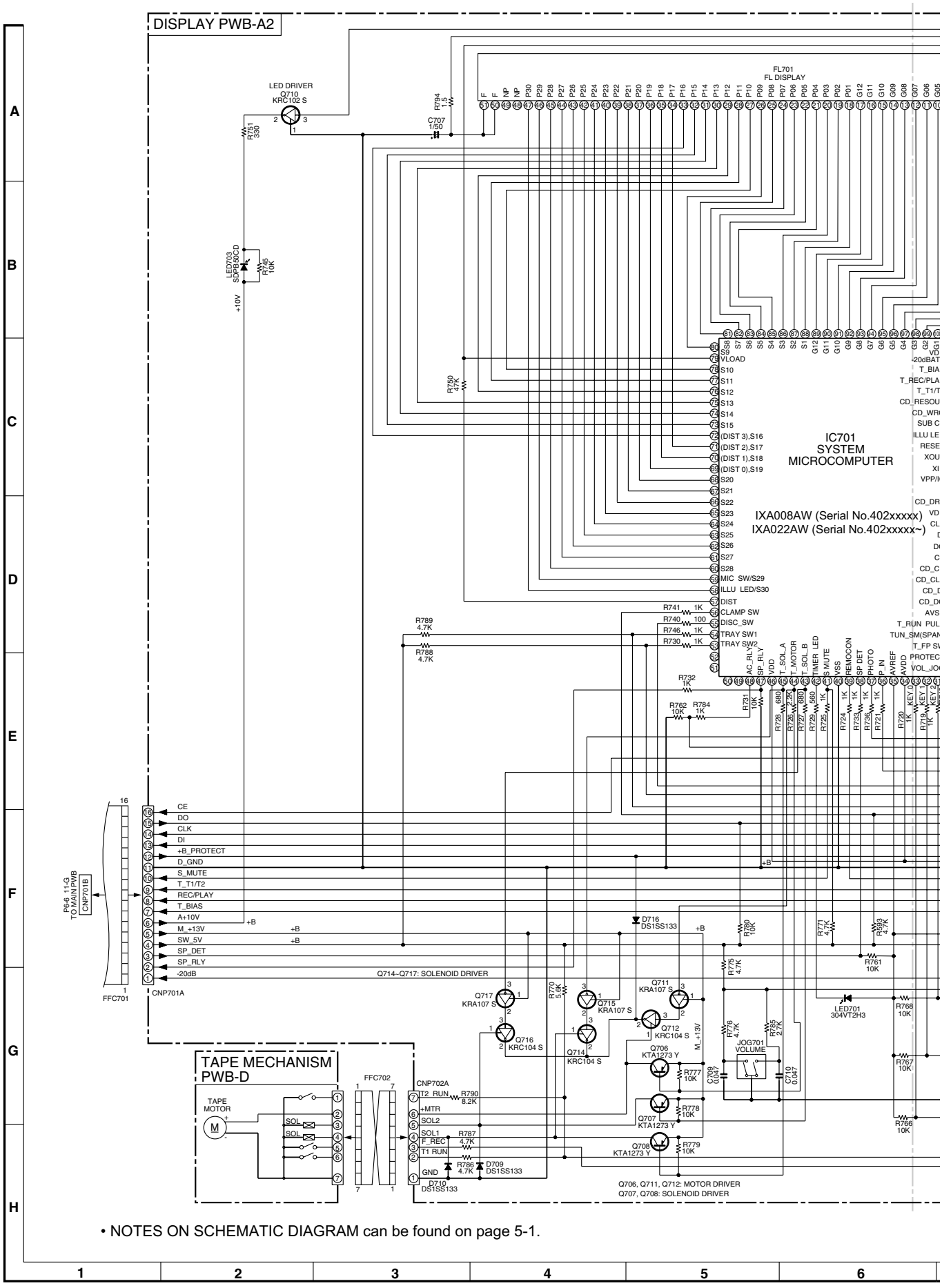
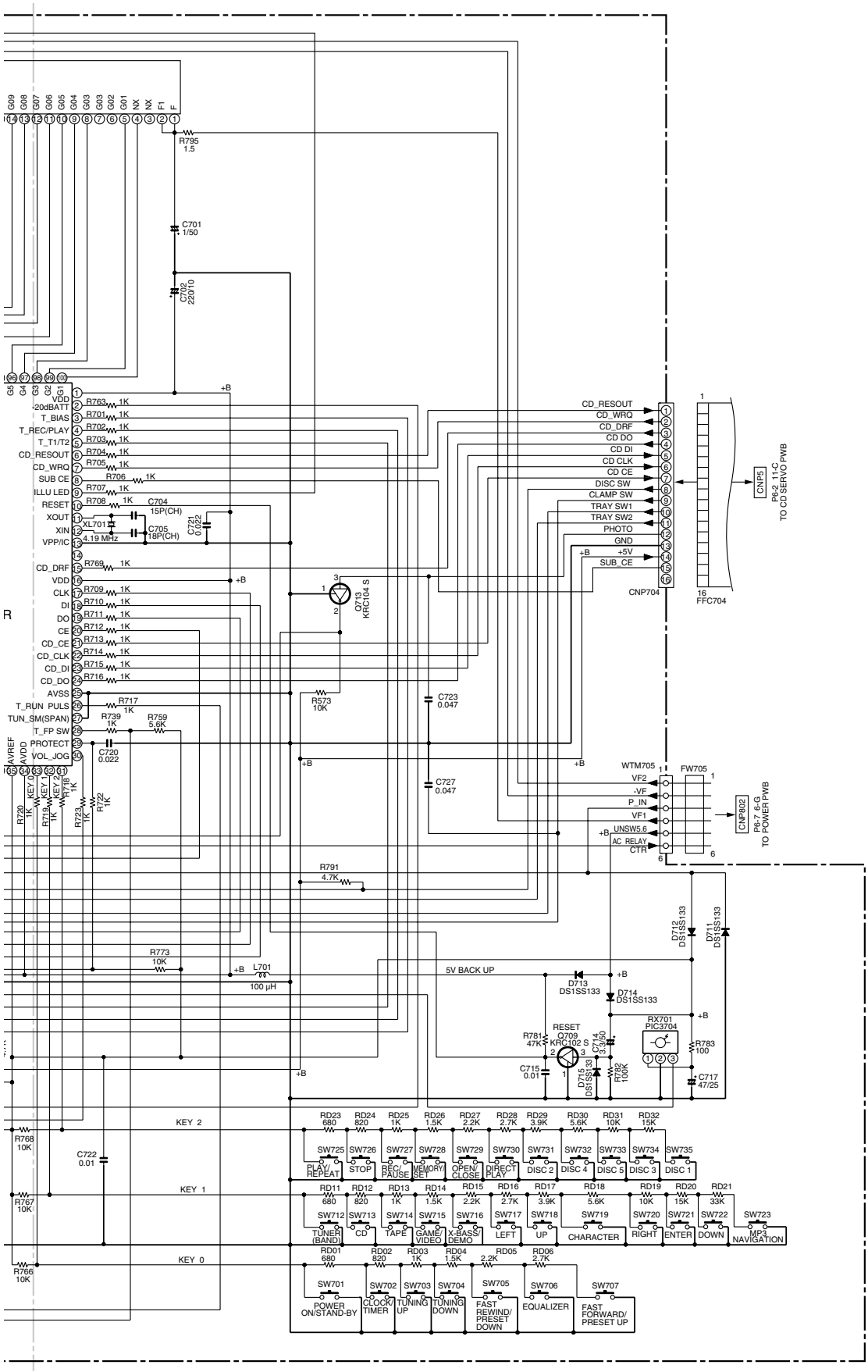


Figure 6-3 SCHEMATIC DIAGRAM (3/10)



7	8	9	10	11	12

Figure 6-4 SCHEMATIC DIAGRAM (4/10)

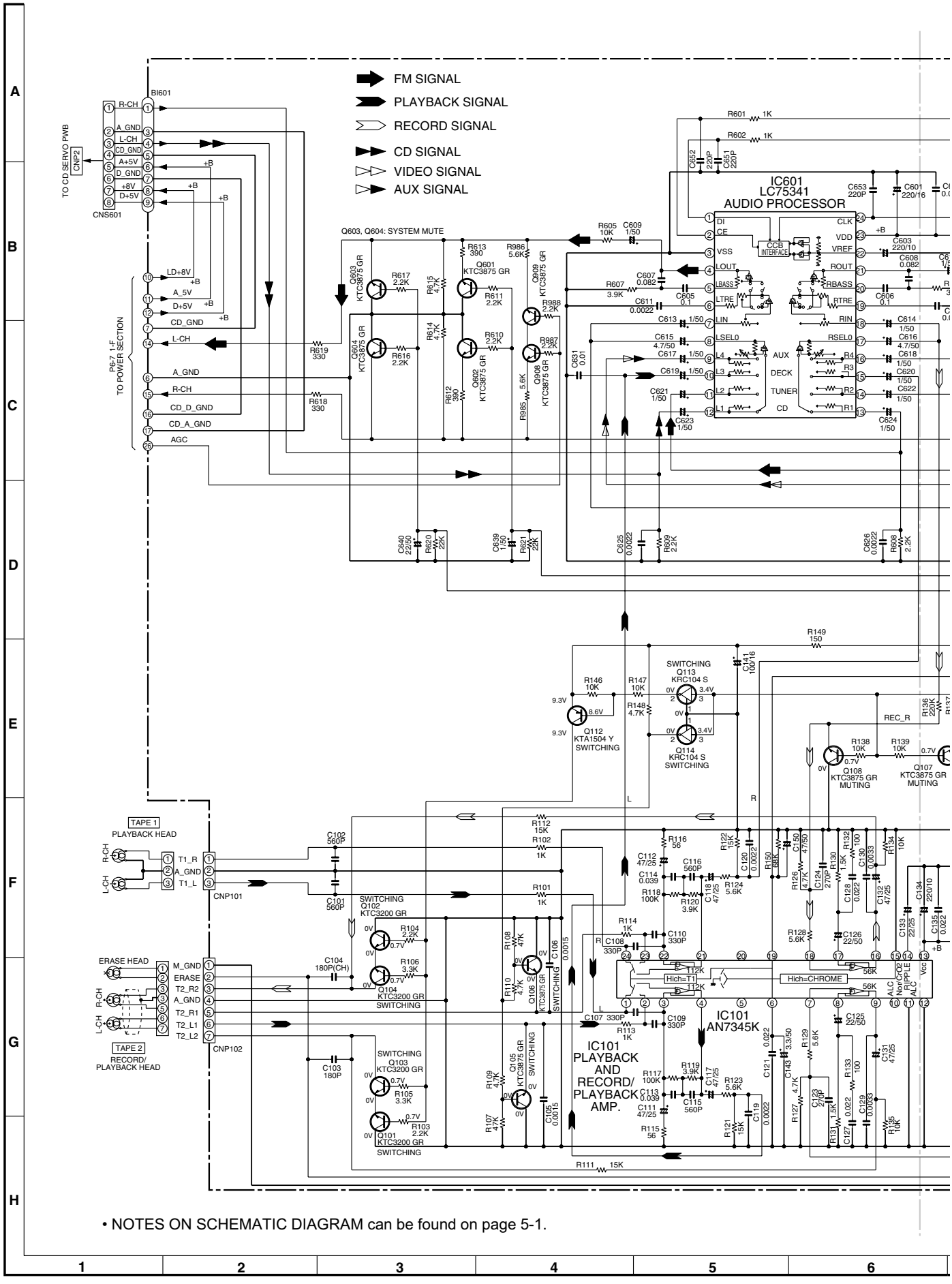


Figure 6-5 SCHEMATIC DIAGRAM (5/10)

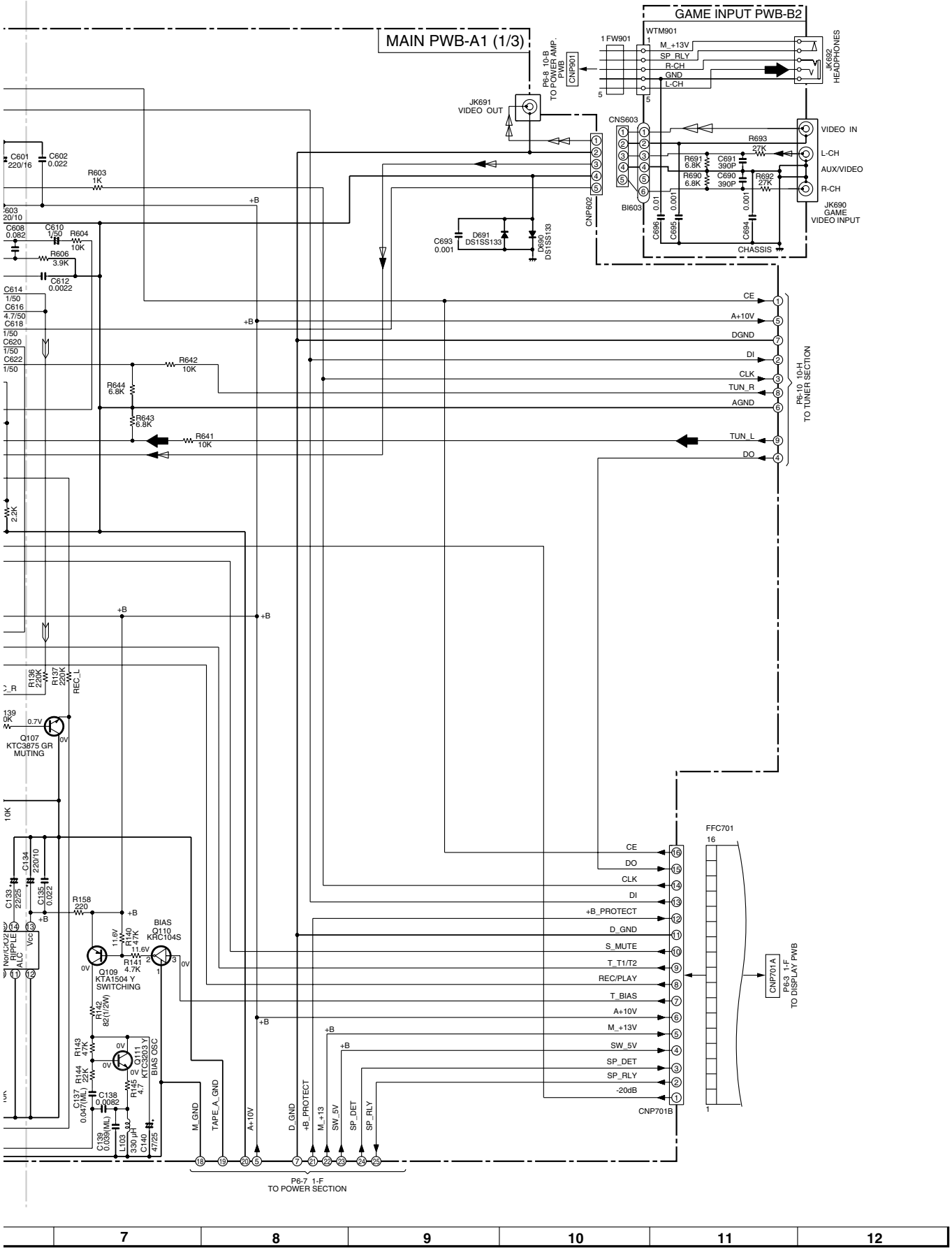
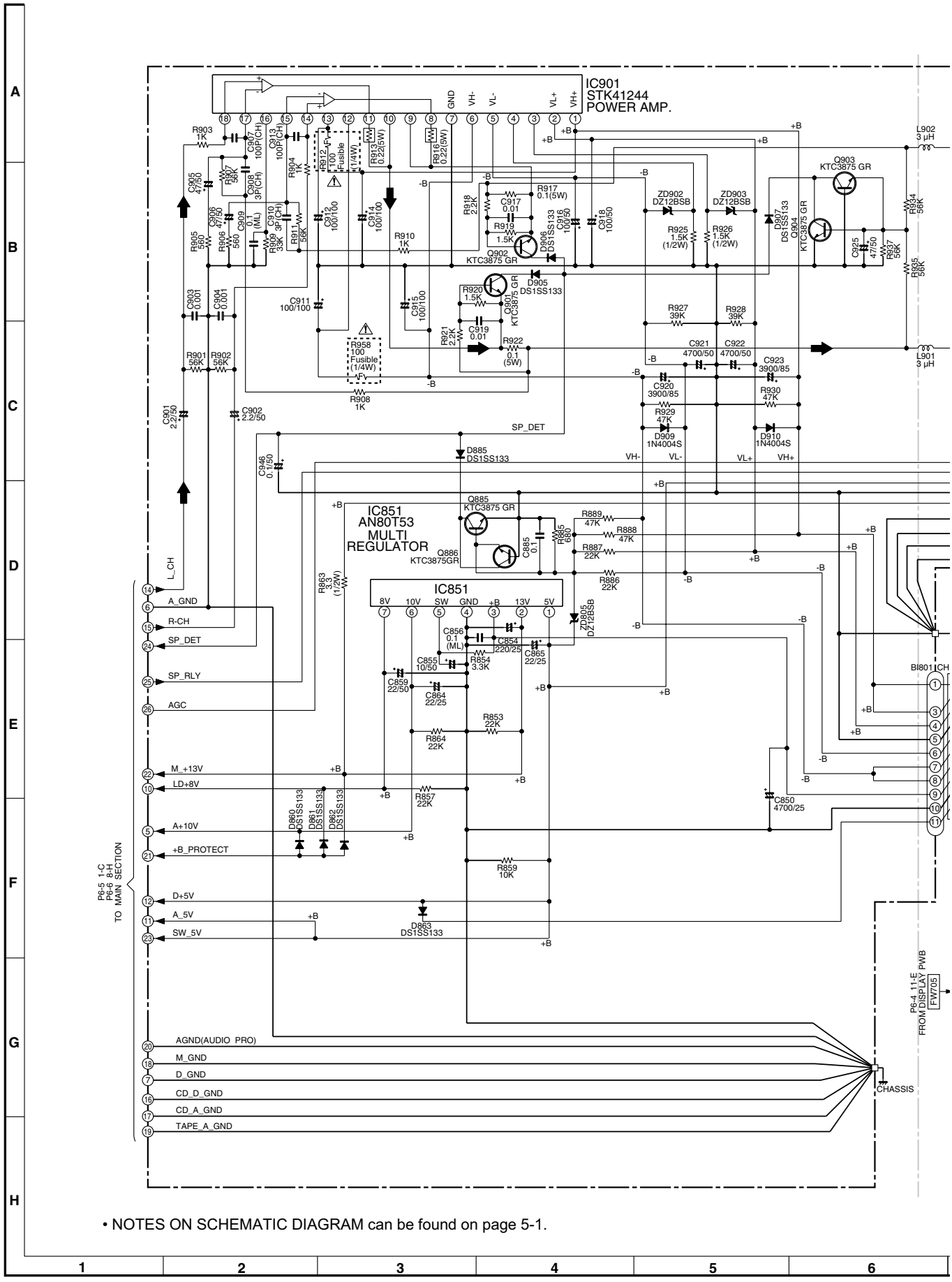
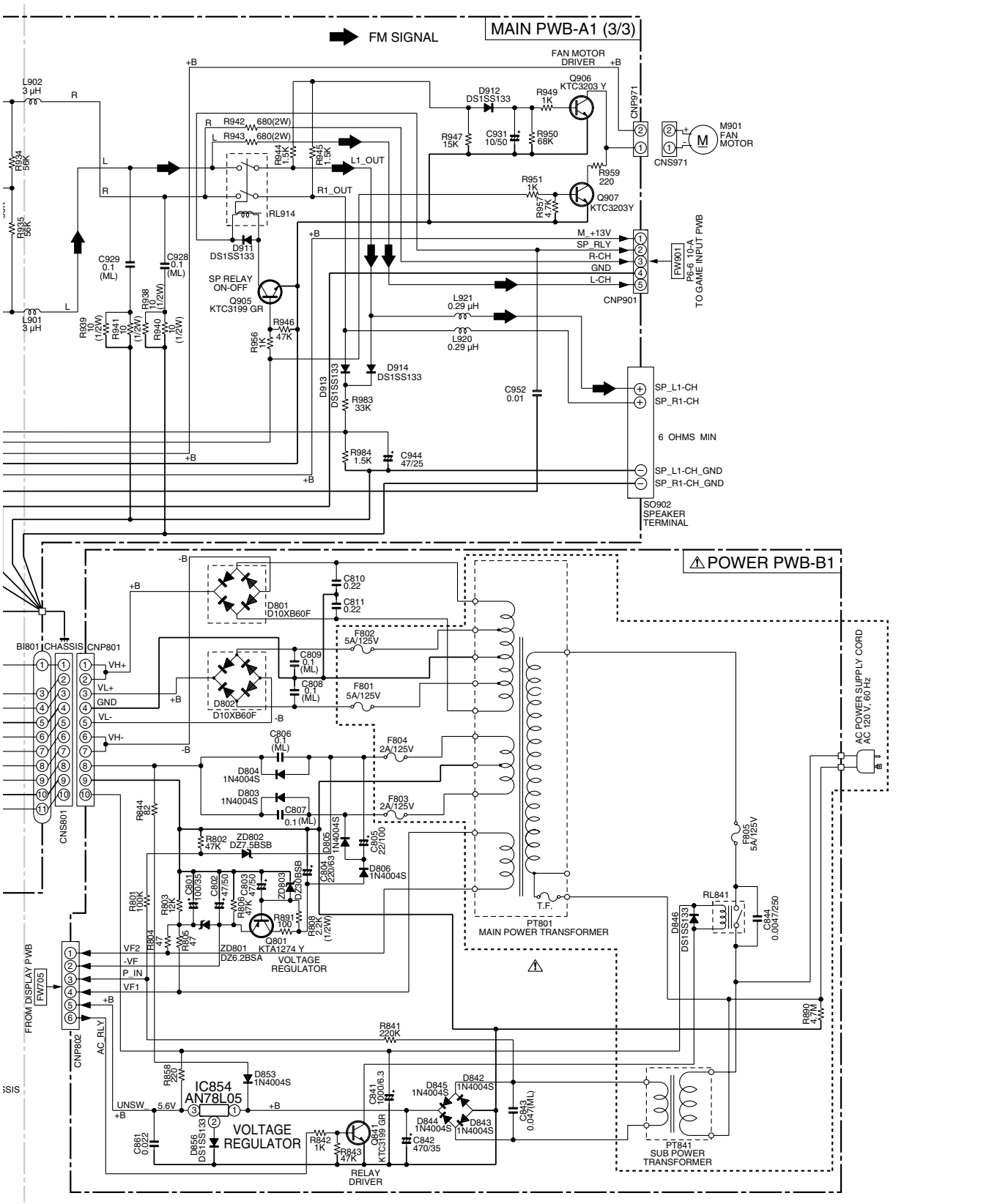


Figure 6-6 SCHEMATIC DIAGRAM (6/10)



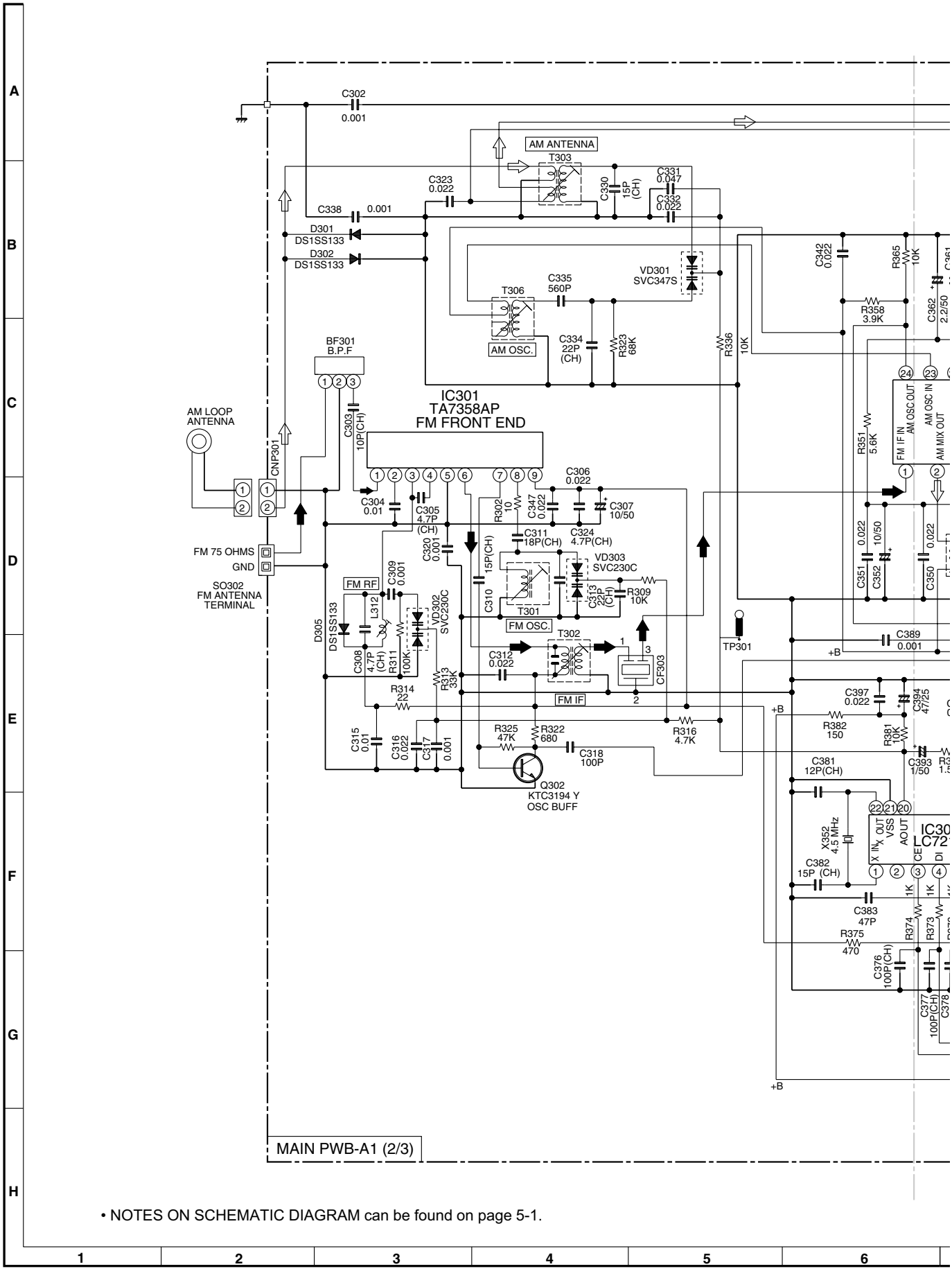
• NOTES ON SCHEMATIC DIAGRAM can be found on page 5-1.

Figure 6-7 SCHEMATIC DIAGRAM (7/10)



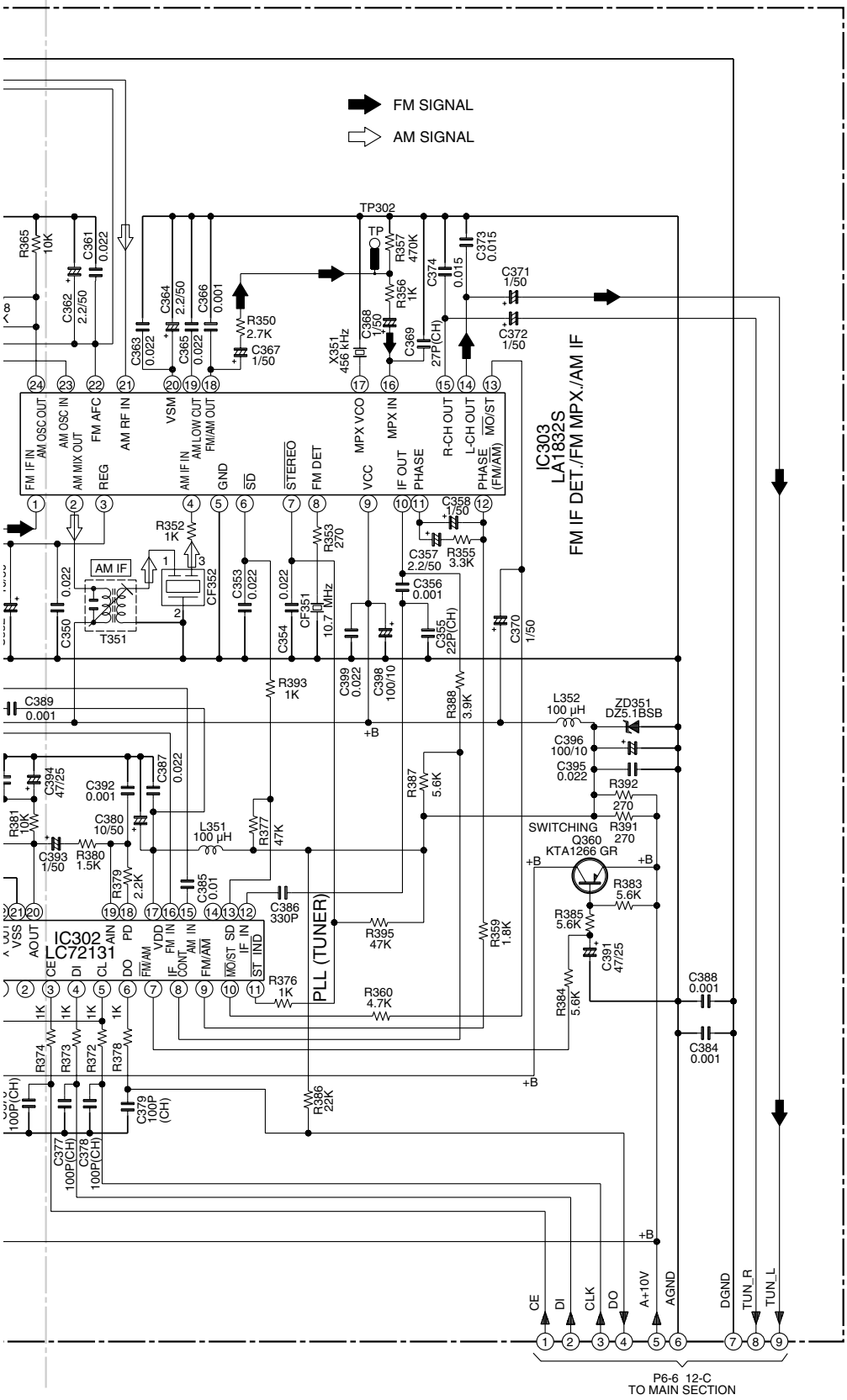
	7	8	9	10	11	12

Figure 6-8 SCHEMATIC DIAGRAM (8/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 5-1.

Figure 6-9 SCHEMATIC DIAGRAM (9/10)



	7	8	9	10	11	12

Figure 6-10 SCHEMATIC DIAGRAM (10/10)

[2] Wiring side of PWB

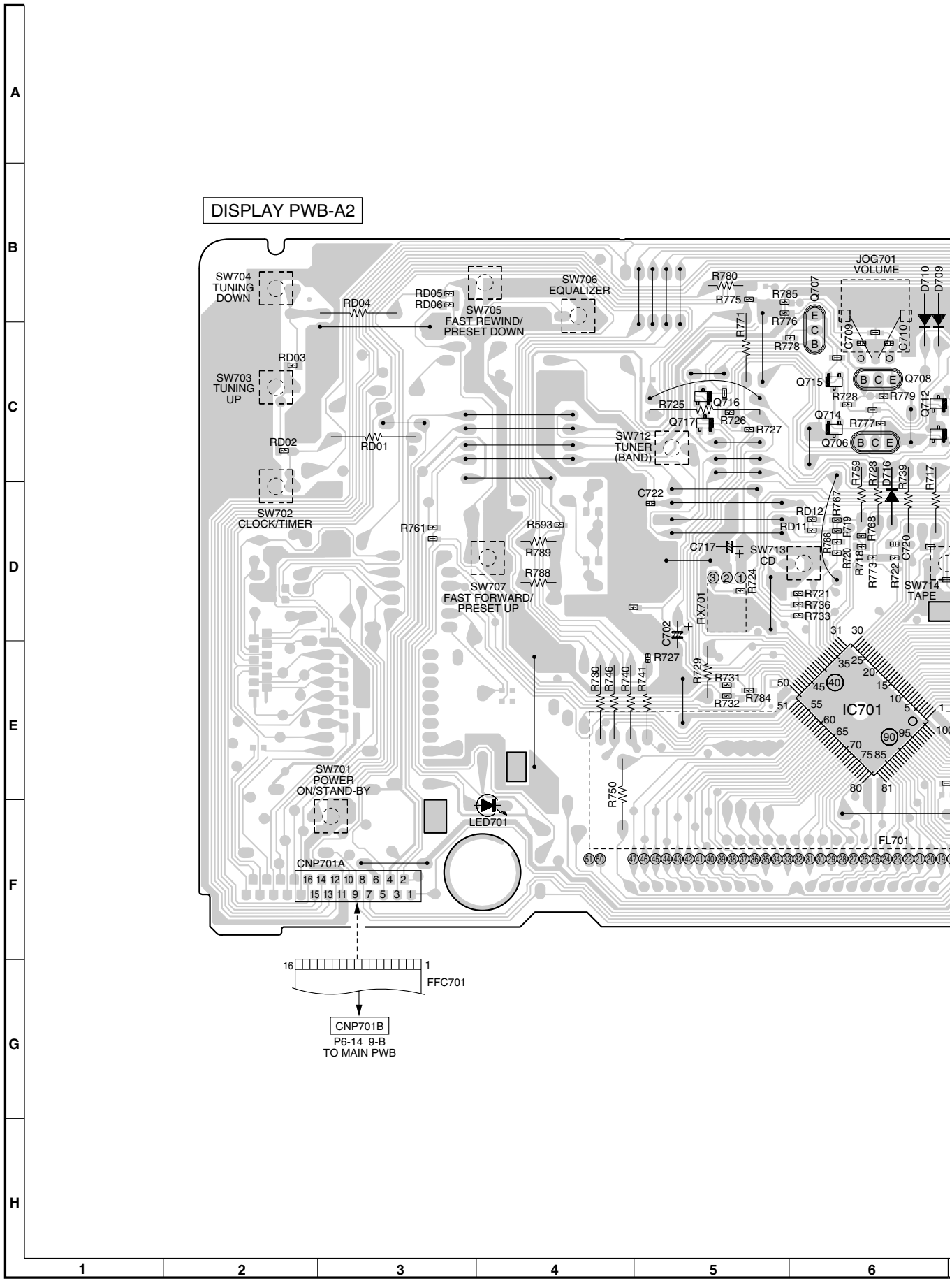
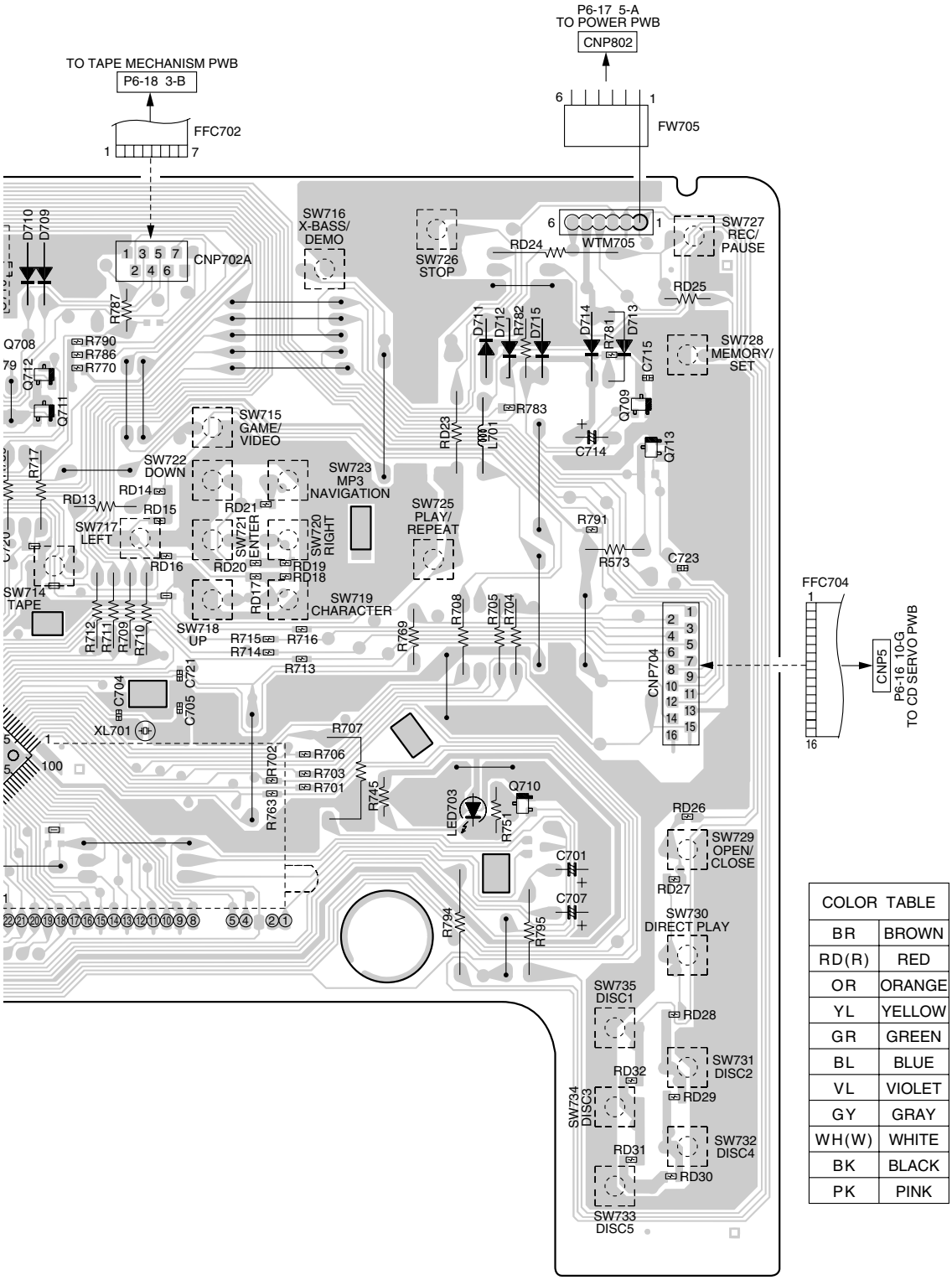


Figure 6-11 WIRING SIDE OF PWB (1/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

	7	8	9	10	11	12

Figure 6-12 WIRING SIDE OF PWB (2/8)

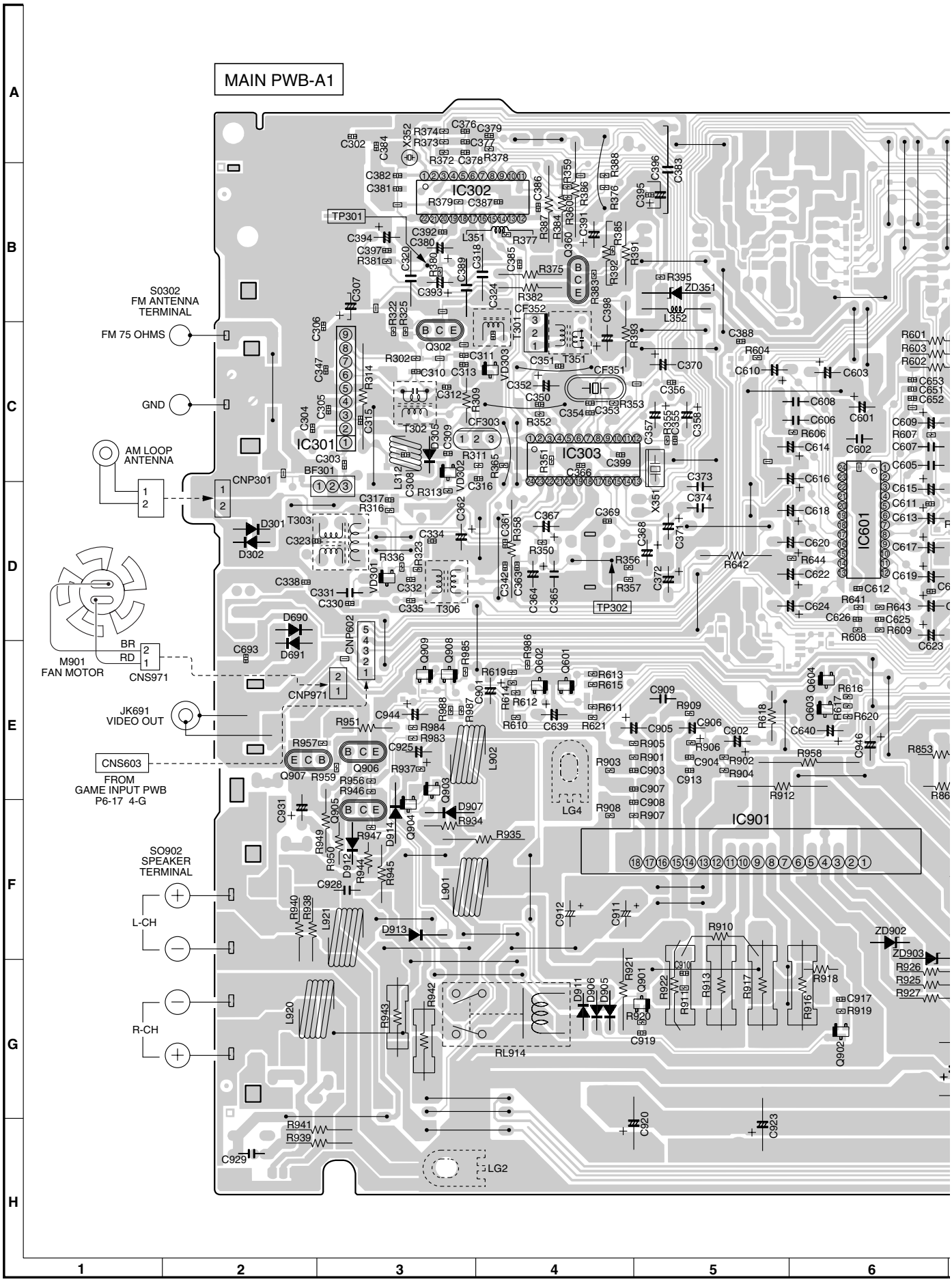
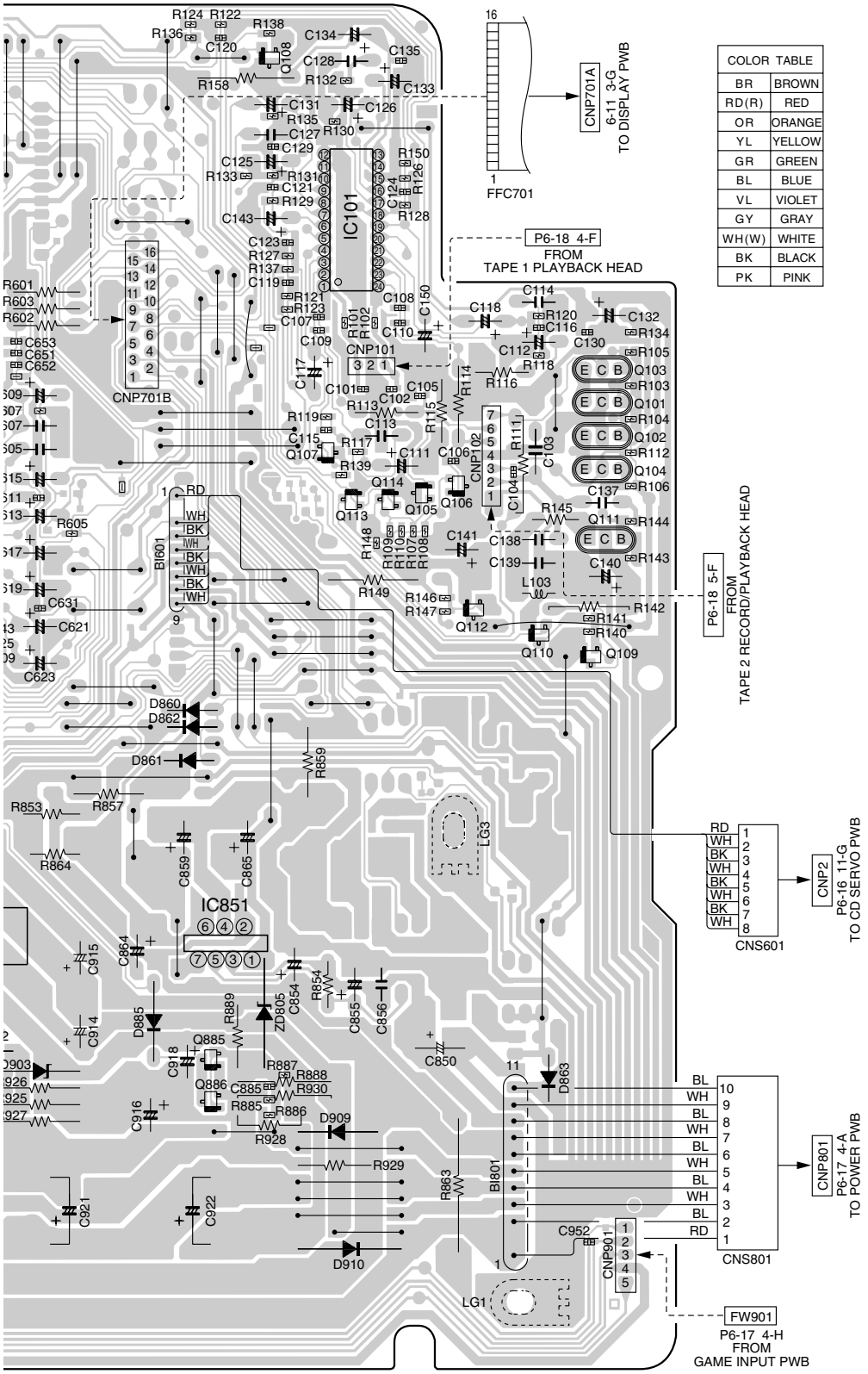


Figure 6-13 WIRING SIDE OF PWB (3/8)



	7	8	9	10	11	12

Figure 6-14 WIRING SIDE OF PWB (4/8)

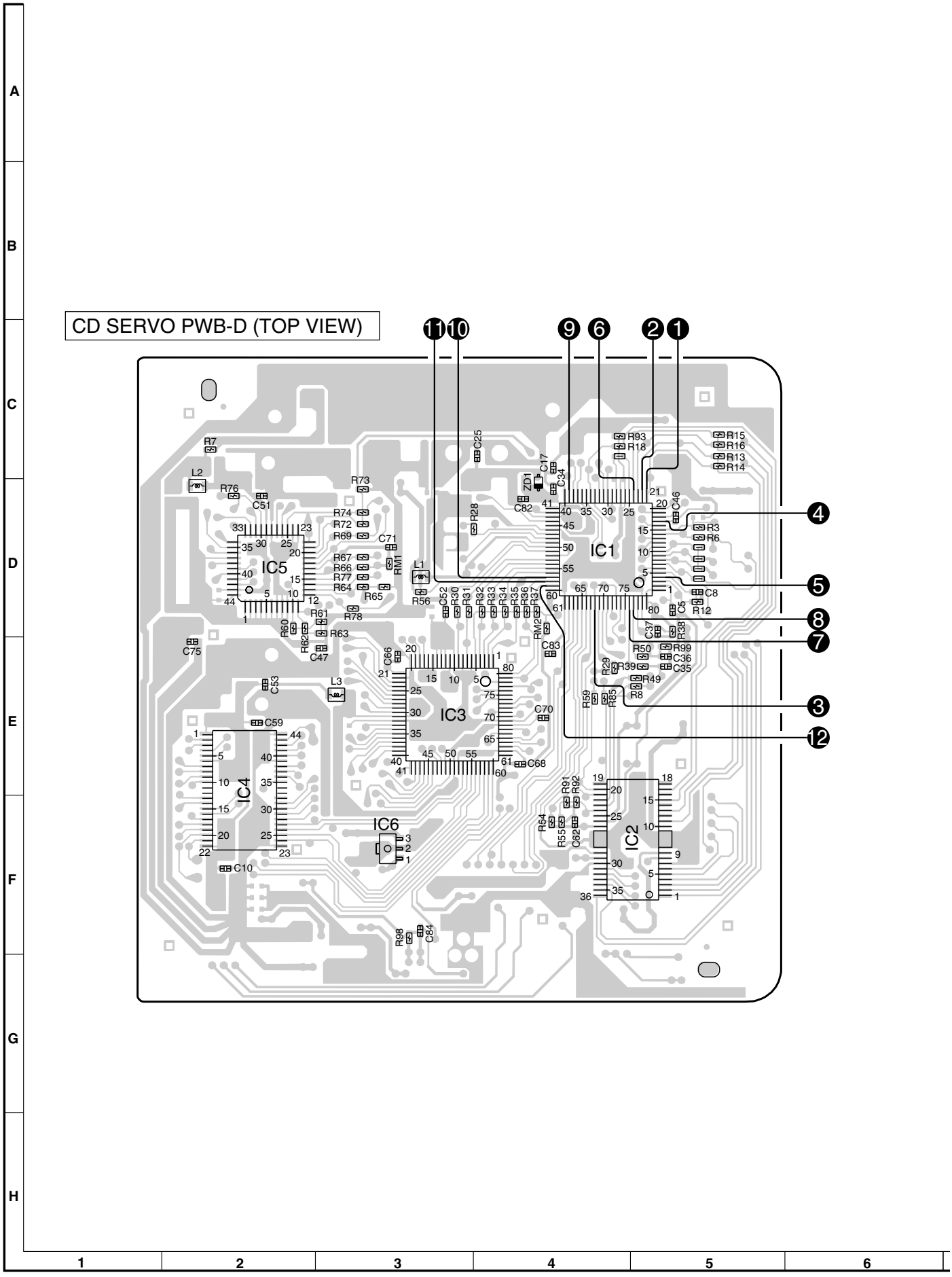
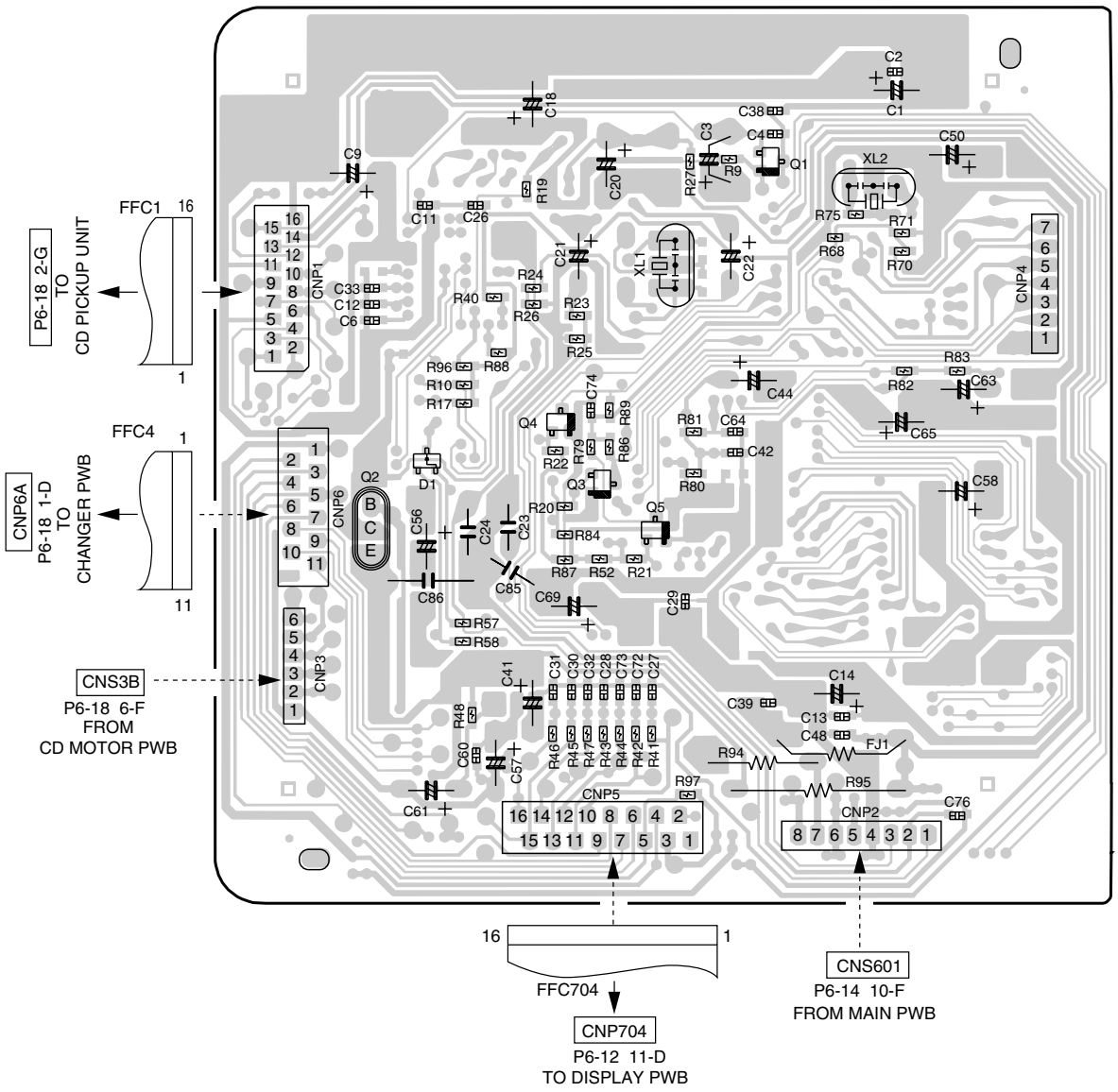


Figure 6-15 WIRING SIDE OF PWB (5/8)

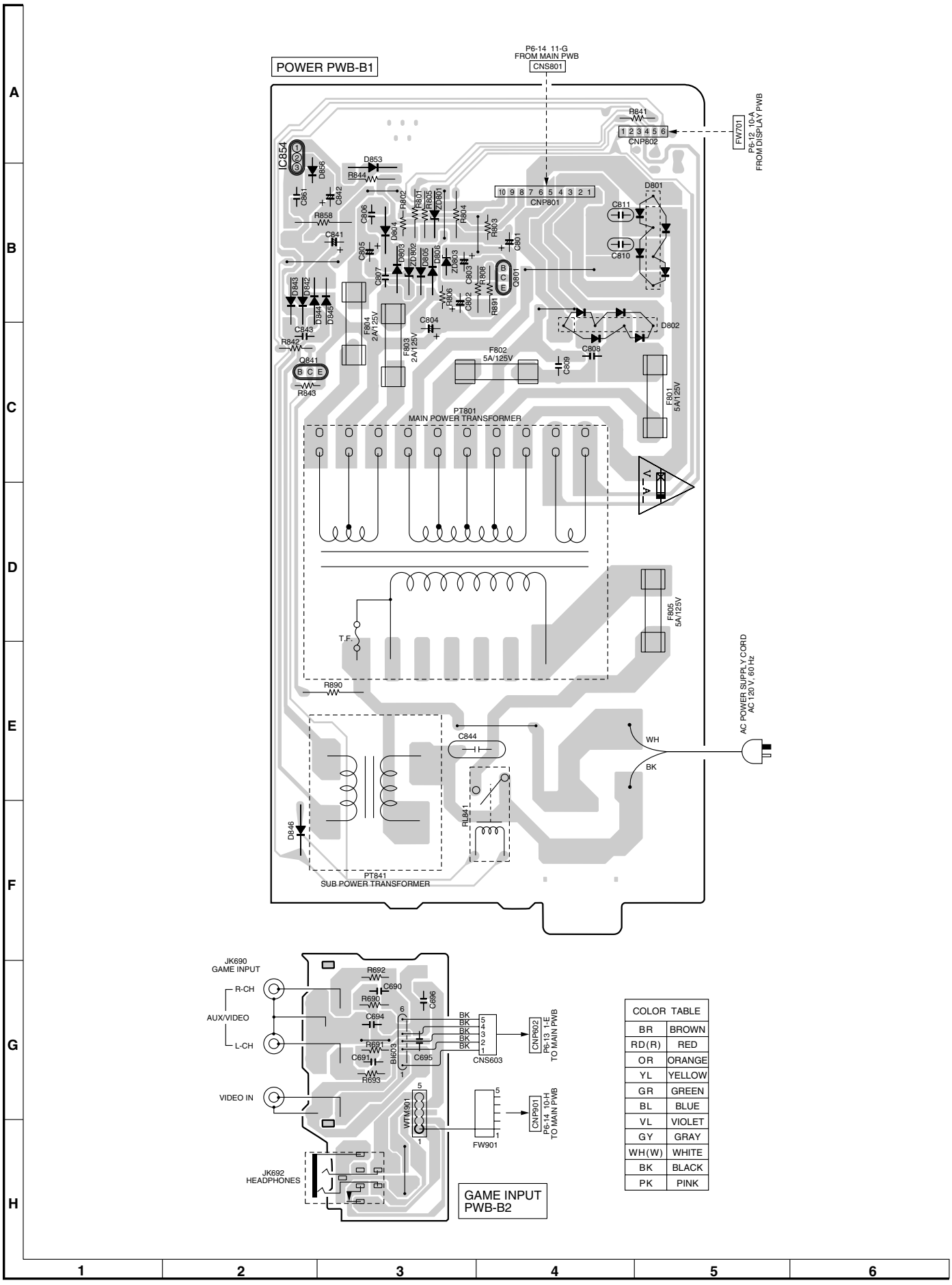
CD SERVO PWB-D (BOTTOM VIEW)



• The number ❶ to ⓬ are waveform number shown in page 5-2.

	7	8	9	10	11	12

Figure 6-16 WIRING SIDE OF PWB (6/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 6-17 WIRING SIDE OF PWB (7/8)

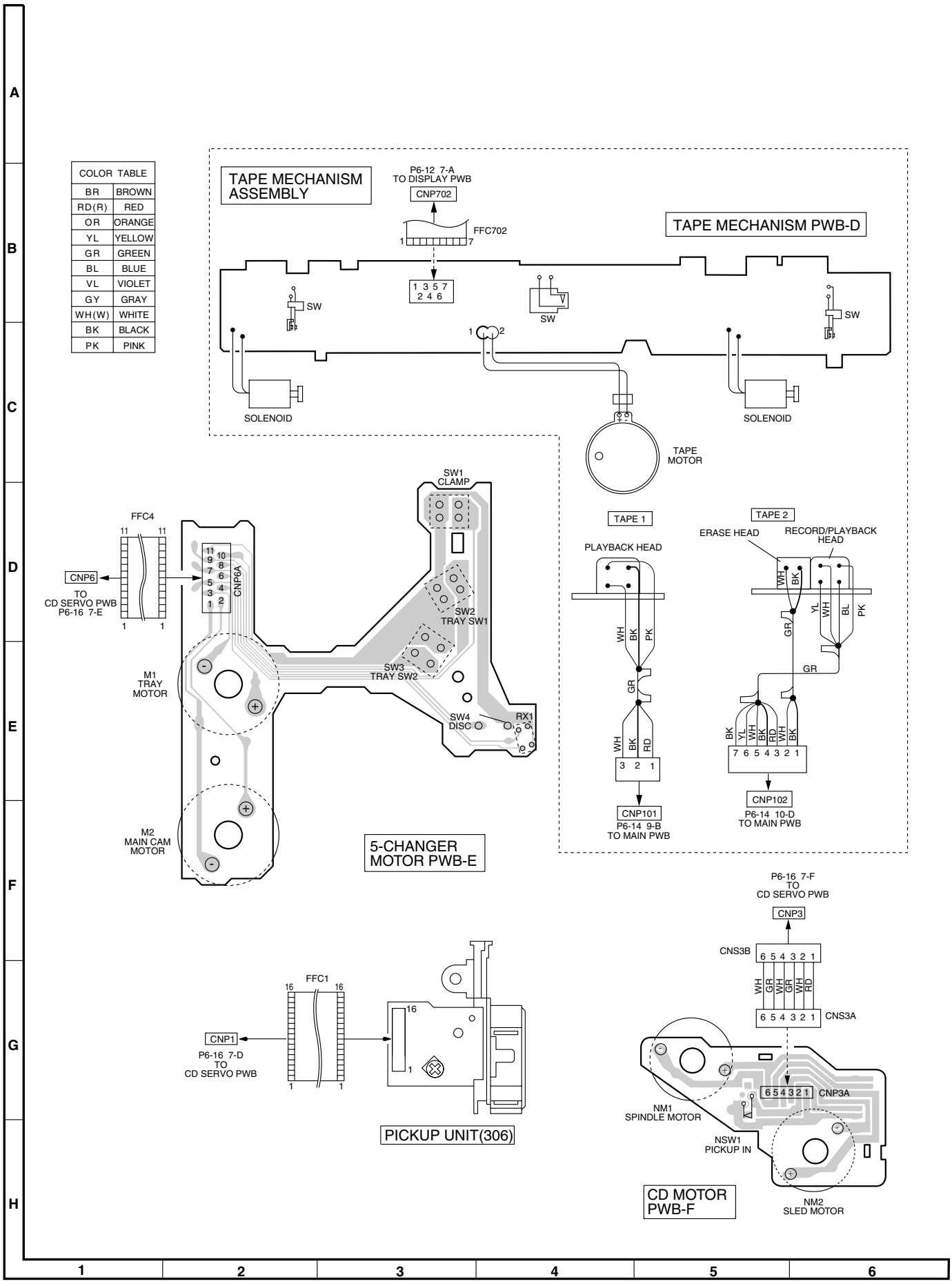


Figure 6-18 WIRING SIDE OF PWB (8/8)

CHAPTER 7. FLOWCHART

[1] Troubleshooting

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

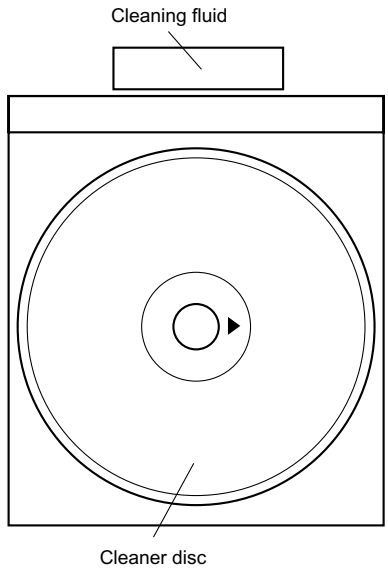
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
-

2. When a CD cannot be played

2.1. "E-CD01" is displayed.

1) Check the power to IC1 (LC78648E), the presence of the clock signal (16.9344 MHz) and the status of the RESET terminal (pin 67 on IC1).
2) Does the pickup move to the PICKUP-IN Switch (NSW1) position?

   If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2.2. Pressing the CD operation key is accepted, but playback does not occur.

1) Focus-HF system check
2) Tracking system check
3) Spin system check
4) PLL system check
5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

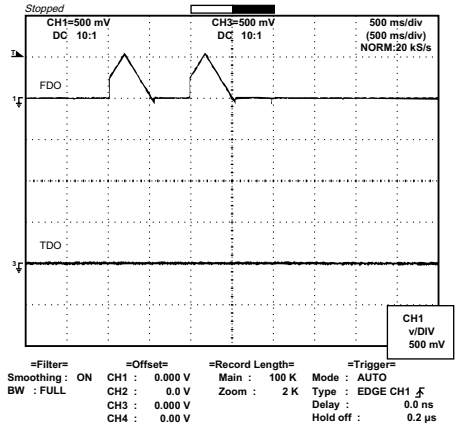


Figure 1

1. Does the pickup move to the PICKUP-IN Switch (NSW1) position?
   - No → Sled motor (NM2).
   - Yes ↓

2. Does the focus (lens) move up and down? (Waveform drawing Figure 1)
   - No → Check the focus peripheral circuit.
   - Yes ↓

3. Is the laser lit?
   - No → Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

4. Is the turntable rotating?
   - No → Spindle motor (NM1).

When a disc is loaded, start playback operation.

1. Is focus servo activated? (Waveform drawing Figure 2)
   - No → Pins 7~11, 13,19 and 20 on IC1. Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

2. Does DRF change from "L" to "H"?
   - No → Is the disc rotating?
     - No → Check the spin system.

     If the disc is spinning and a HF waveform is generated, DRF will go H.
   - Yes ↓

3. Is the HF waveform normal? (Waveform drawing Figure 3)
   - No → If the level is not normal.

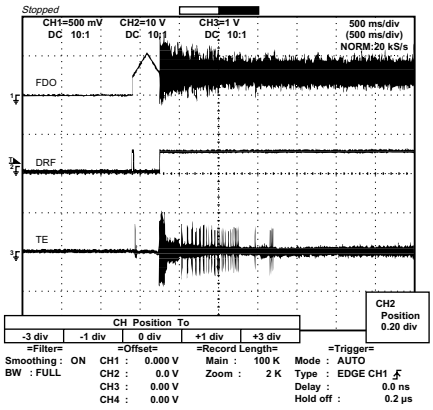


Figure 2

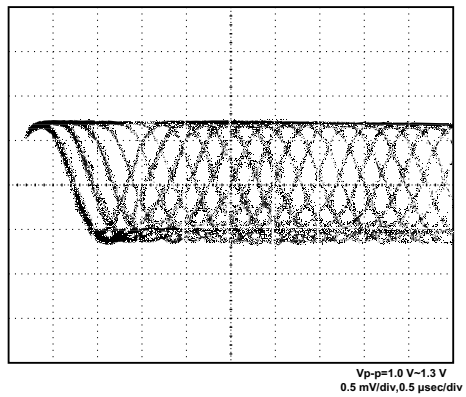


Figure 3

(2) Focus-HF system check.

Check the TE waveform at pin 17 on IC1.

If the waveform shown in Figure 4 appears and soon after NO DISC appears? — Yes → The tracking servo is not activated. Check the peripheral circuits at pins 16, 17 and 22 on IC1, and FFC1.

↓ No

"Initialization" is possible, but play is not possible? — Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found. Check the around pin 22 on IC1.

↓ No

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL (Pin76~80 on IC1) system.

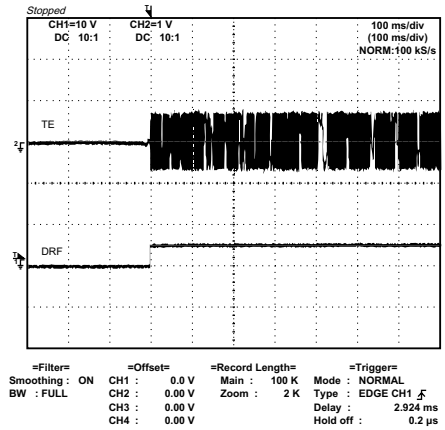


Figure 4

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

↓

1. The turntable rotates a little? (Waveform drawing Figure 5) — Yes → The spin driver circuit is OK.

↓ No

2. The turntable doesn't rotate. → Check around pin 24 on IC1, pins 3 and 4 on IC2, and CNS3A/ CNS3B.

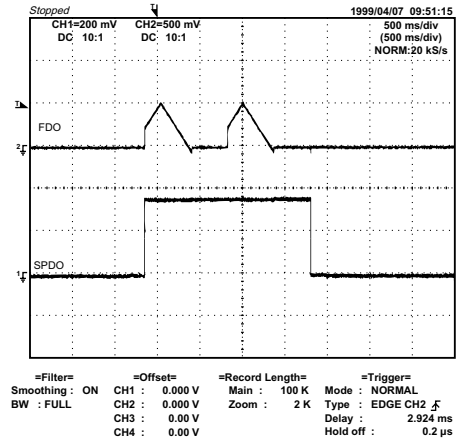


Figure 5

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 6)

↓

Check around pins 76~80 on IC1.

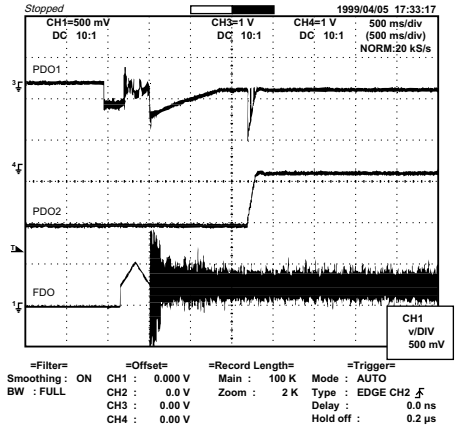


Figure 6

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 69 (C2F) on IC1 "L"? — No → There are too many error flags on a damaged disc which makes error correction impossible.

↓ Yes

1. When playing at normal speed.
Check the peripheral circuit at pin 39 (DOUT) on IC1 and the waveform (Figure 7).

↓

If OK, Check the unit.

Check again using a known good disc.

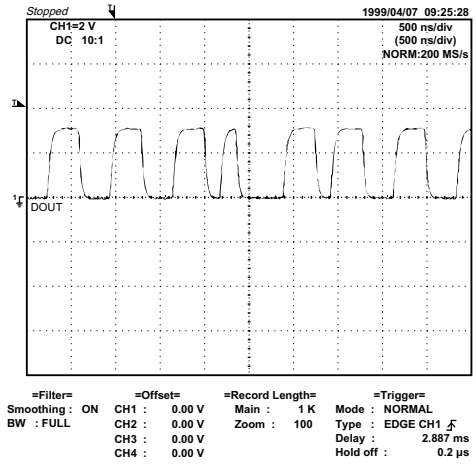


Figure 7

CHAPTER 8. OTHERS

[1] Function table of IC

IC1 VHiLC78648E-1: CD Servo (LC78648E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	AVDD1	Output	—	Analog power supply pin 1.	
2	SLCO	Output	—	slice level control.	Slice level Control output pin.
3	EFMIN	Input	—		RF signal input pin.
4	RF	Output	—	RF signal Output pin.	
5	LPF	Output	—	RF signal DC level detection LPF capacitor connection pin.	
6	JITTC	Input	—	Jitter detection capacitor connection pin.	
7	AIN	Input	—	A signal input pin.	
8	CIN	Input	—	C signal input pin.	
9	BIN	Input	—	B signal input pin.	
10	DIN	Input	—	D signal input pin.	
11	FEC	Output		FE signal LPF capacitor connection pin.	
12*	PHLPF/RFMON	Output	ZHI	Reference supply setting terminal.	
13	VREF	Output	AVDD1/2	VREF voltage output pin.	
14	EIN	Input	—	E signal input pin.	
15	FIN	Input		F signal input pin.	
16	TEC	Output		TE signal LPF capacitor connection pin.	
17	TE	Output	—	TE signal output pin.	
18	TEIN	Input	—	TES signal generation TE signal input pin	
19	LDD	Output	—	Laser power control signal output pin.	
20	LDS	Input	—	Laser power control signal input pin.	
21	FDO	Output	ADAVDD/2	Focus control output pin. D/A output.	
22	TDO	Output	ADAVDD/2	Tracking control output pin. D/A output.	
23	SLDO	Output	ADAVDD/2	Thread control output pin. D/A output.	
24	SPDO	Output	ADAVDD/2	Spindle control output pin. D/A output.	
25	AVSS2	—	—	Analog GND pin 2. Must always be connected to 0 V.	
26	AVDD2	—	—	Analog power supply pin 2.	
27	DVDD	—	—	Digital power supply pin.	
28	DVSS	—	—	Digital GND pin 2. Must always be connected to 0 V.	
29*	VPB	Output	H	Rough servo/phase control automatic switching monitor output pin.“H” for rough servo and “L” for phase servo.	
30*	DEFECT	Output	L	Defect signal output pin.	
31*	FSEQ	Output	L	Synchronization signal detection output pin. Outputs a high level when the Synchronization signal detection from the EFM signal and the internally generated Synchronization signal agree.	
32	EFLG	Output	L	C1, C2 error correction monitor pin	
33*	FSX	Output	L	7.35 kHz Synchronization signal output pin. CLV playback mode.	
34	CONT1	Input/Output	Input	General purpose I/O pin 1.	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open.
35	CONT2	Input/Output	Input	General purpose I/O pin 2.	
36	CONT3	Input/Output	Input	General purpose I/O pin 3.	
37*	MONI1	Input/Output	Input	External deiemphasis setting pin, INternal signal monitor pin 1. Controlled by microprocessor.	
38*	MONI2	Output	L	Internal signal monitor pin 2.	
39*	DOUT	Output	L	Digital OUT output Pin. (EIAJ format)	
40	TEST	Input	L	Test input pin. Must always be connected to 0 V.	
41	LVDD	—	—	Left channel D/A converter	L channel Power supply pin.
42	LCHO	Output	LVDD/2		L channel output supply pin.
43	LRVSS	—	—		LR channel GND pin. Must always be connected to 0 V.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

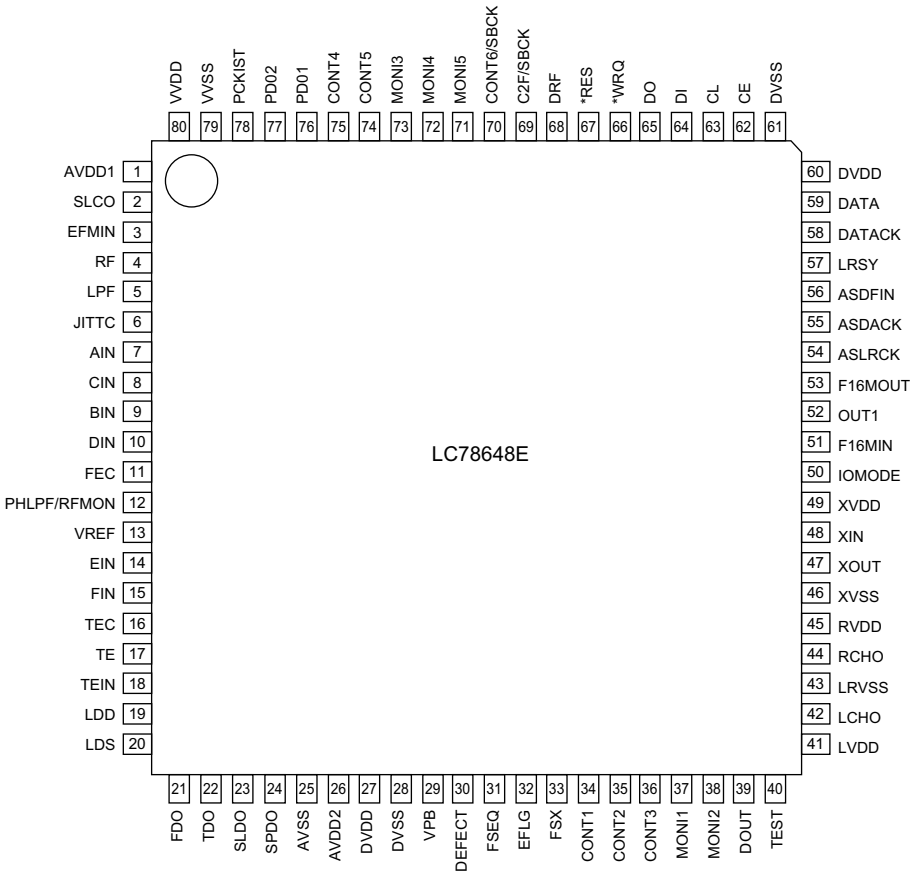
IC1 VHiLC78648E-1: CD Servo (LC78648E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RCHO	Output	RVDD /2	Right channel D/A converter	R channel Power supply pin.
45	RVDD	—	—		R channel output supply pin.
46	XVSS	—	—	Digital GND pin. Must always be connected to 0 V	
47	XOUT	Output	Oscillator	Crystal oscillator	Power supply for crystal oscillator. Connected for a 16.9344 MHz crystal oscillator pin.
48	XIN	Input	Oscillator		
49	XVDD	—	—	Digital power supply pin. Must always be connected to 0 V	
50	IOMODE	Input	—	CONT4 to 6. MONI3~5, DRF, WRQB pin output mode switching input pin. ”L” setting: Normal output “H” setting: Nch open drain output	
51	F16MIN	Input	—	DF. DAC external clock input pin.	
52*	OUT1	Output	L	General-purpose output pin 1.	
53	16MOUT	Output	CLK Output	16.9344 MHz output port.	
54	ASLRCK	Input	—	Anti-shock	Left/Right clock input pin. (Must be connect to 0 V when unused.)
55	ASDACK	Input	—		Bit clock input pin. (Must be connect to 0 V when unused.)
56	ASDFIN	Input	—		Left/Right channel data input pin. (Must be connect to 0 V when unused.)
57	LRSK	Output	L	Digital data output	Left/Right channel data output pin.
58	DATACK	Output	L		Bit clock output pin.
59	DATA	Output	L		Left/Right clock output pin.
60	DVDD	—	—	Digital power supply pin.	
61	DVSS	—	—	Digital GND pin 2. Must always be connected to 0V.	
62	CE	Input	—	Microcom-puter Interface	Chip enable signal input pin.
63	CL	Input	—		Data transfer clock input pin.
64	DI	Input	—		Data output pin.
65	DO	Output	(H)		Data output pin. (Try state output.)
66	WRQB	Output	L	Interruption signal output pin.	
67	RESB	Input	—	Reset input pin for LSI. This pin must be set LOW briefly after power is first applied.	
68	DRF	Output	L	Focus ON detection pin.	
69	C2F/SBCK	Input/Output	Input	Error flag monitor pin, or sub code read clock input pin.	Controlled by commands from the microprocessor.
70	CONT6/SBCK	Input/Output	Input	General-purpose I/O pin 6, or sub code read clock input pin.	Controlled by commands from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open.
71*	MONI5	Output	L	Internal signal monitor pin 5.	
72*	MONI4	Output	L	Internal signal monitor pin 4.	
73	MONI3	Output	L	Internal signal monitor pin 3.	
74	CONT5	Input/Output	Input	General purpose I/O pin 5.	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open when unused.
75	CONT4	Input/Output	Input	General purpose I/O pin 4.	
76	PDO1	Output	—	PLL	Phase comparison output pin 1 to control built-in VCO.
77	PDO2	Output	—		Phase comparison output pin 2 to control built-in VCO.
78	PCKIST	Input	—		Resistor connection pin to set current for PDO1 and 02 outputs.
79	VVSS	—	—		Built-in VCO GND pin. Must always be connected to 0 V.
80	VVDD	—	—		Built-in VCO power supply pin.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

The same potential must be supplied to all power supply pins, i, e., AVDD1, AVDD2, XVDD, DVDD, LVDD and RVDD)

IC1 VHiLC78648E-1: CD Servo (LC78648E)



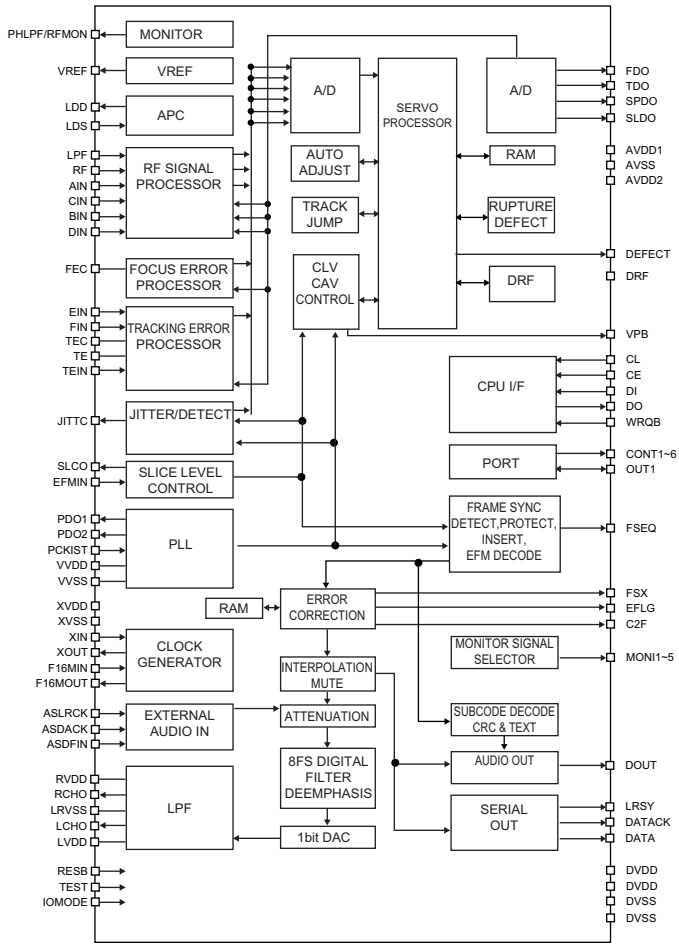


Figure 8-3 BLOCK DIAGRAM OF IC

IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)

Pin No.	Terminal Name	Function
1	VO3+	BTL Output pin (+) for channel 3.
2	VO3-	BTL Output pin (-) for channel 3.
3	VO2+	BTL Output pin (+) for channel 2.
4	VO2-	BTL Output pin (-) for channel 2.
5	VO1+	BTL Output pin (+) for channel 1.
6	VO1-	BTL Output pin (-) for channel 1.
7	PGND1	Power GND for channels 1,2,3 and 4 (BTL).
8	REGIN	Regulator pin (External PNP base).
9	PVCC1	Power for channels 1,2,3 and 4 (BTL). (SVCC short-crircuited)
10	REGOUT	Regulator pin (External PNP collector).
11	VIN1	Input pin for channel 1
12*	VIN1G	Input pin for channel 1 (for gain control)
13	VIN2	Input pin for channel 2
14*	VIN2G	Input pin for channel 2 (for gain control)
15	VIN3	Input pin for channel 3
16*	VIN3G	Input pin for channel 3 (for gain control)
17	VIN4	Input pin for channel 4
18	VIN4G	Input pin for channel 4 (for gain control)
19	FWD5	CH5 Output change pin (FWD). Logic input for bridge.
20	REV5	CH5 Output change pin (REV). Logic input for bridge.
21	VCONT5	Input pin for CH5 output voltage control
22	FWD6	CH6 Output change pin (FWD). Logic input for bridge.
23	REV6	CH6 Output change pin (REV). Logic input for bridge.
24	VCONT6	Input pin for CH5 output voltage control.
25	VREFIN	Reference voltage input pin.
26	SGND	Signal system GND
27	SVCC	Signal system power (PVCC1 short - circuited)
28	PVCC2	Power for channel 5 and 6 (H bridge).
29	MUTE	Input pin for BTL mute.
30	PGND2	Power GND for channels 5 and 6 (H bridge).
31	VO6+	H bridge Output pin (+) for channel 6.
32	VO6-	H bridge Output pin (-) for channel 6.
33	VO5+	H bridge Output pin (+) for channel 5.
34	VO5-	H bridge Output pin (-) for channel 5.
35	VO4+	BTL Output pin (+) for channel 4.
36	VO4-	BTL Output pin (-) for channel 4.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

* Set power system GND to the minimum potential together with SGND

* Short-circuit three pins of power system SVSS and PVCC1 externally before use.

IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)

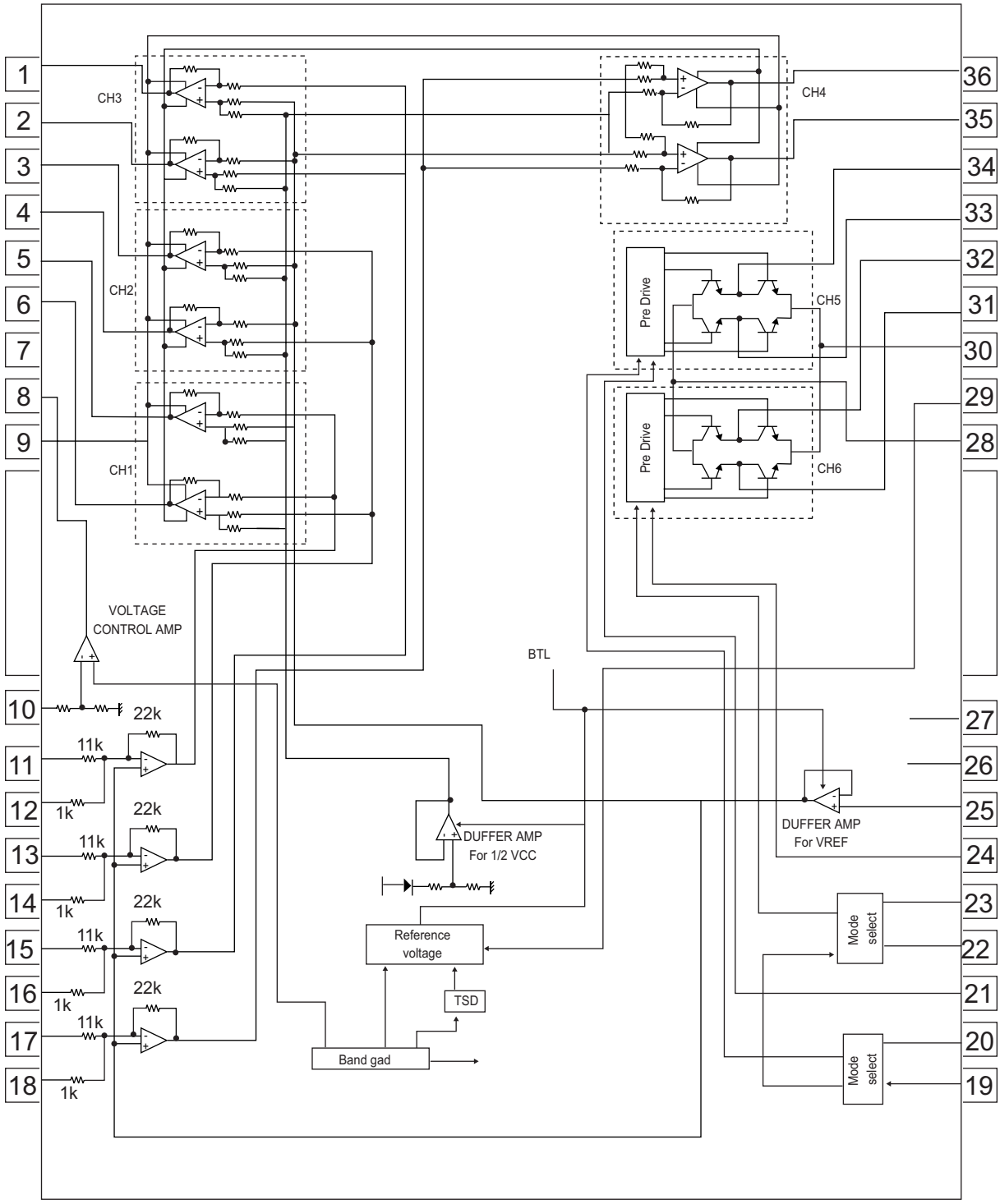


Figure 8-5 BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)

Pin No.	Terminal Name	Function
1	DI	Serial data and clock input pin for control.
2	CE	Chip enable pin. Data written into an internal latch in a timing of "H" to "L". Each analog switch is activated. Data transfer enabled at "H" level.
3	VSS	Ground pin.
4	LOUT	Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin.
5	LBASS	Bass band filter comprising capacitor and resistor connection pin.
6	LTRE	Treble band filter comprising capacitor and resistor connection pin.
7	LIN	Volume + equalizer output pin.
8	LSEL0	Input selector output pin.
9-12	L4-1	Input signal pin.
13-16	R1-4	Input signal pin.
17	RSEL0	Input selector output pin.
18	RIN	Volume + equalizer output pin
19	RTRE	Treble band filter comprising capacitor and resistor connection pin.
20	RBASS	Bass band filter comprising capacitor and resistor connection pin.
21	ROUT	Bass band filter comprising capacitor and resistor connection pin and bass/ treble output pin.
22	VREF	0.5x VDD voltage generation block for analog ground. Capacitor of several 10µF to be connected between VREF and AWSS (VSS) as a countermeasure against power ripple.
23	VDD	Supply pin
24	CLK	Serial data and clock input pin for control.

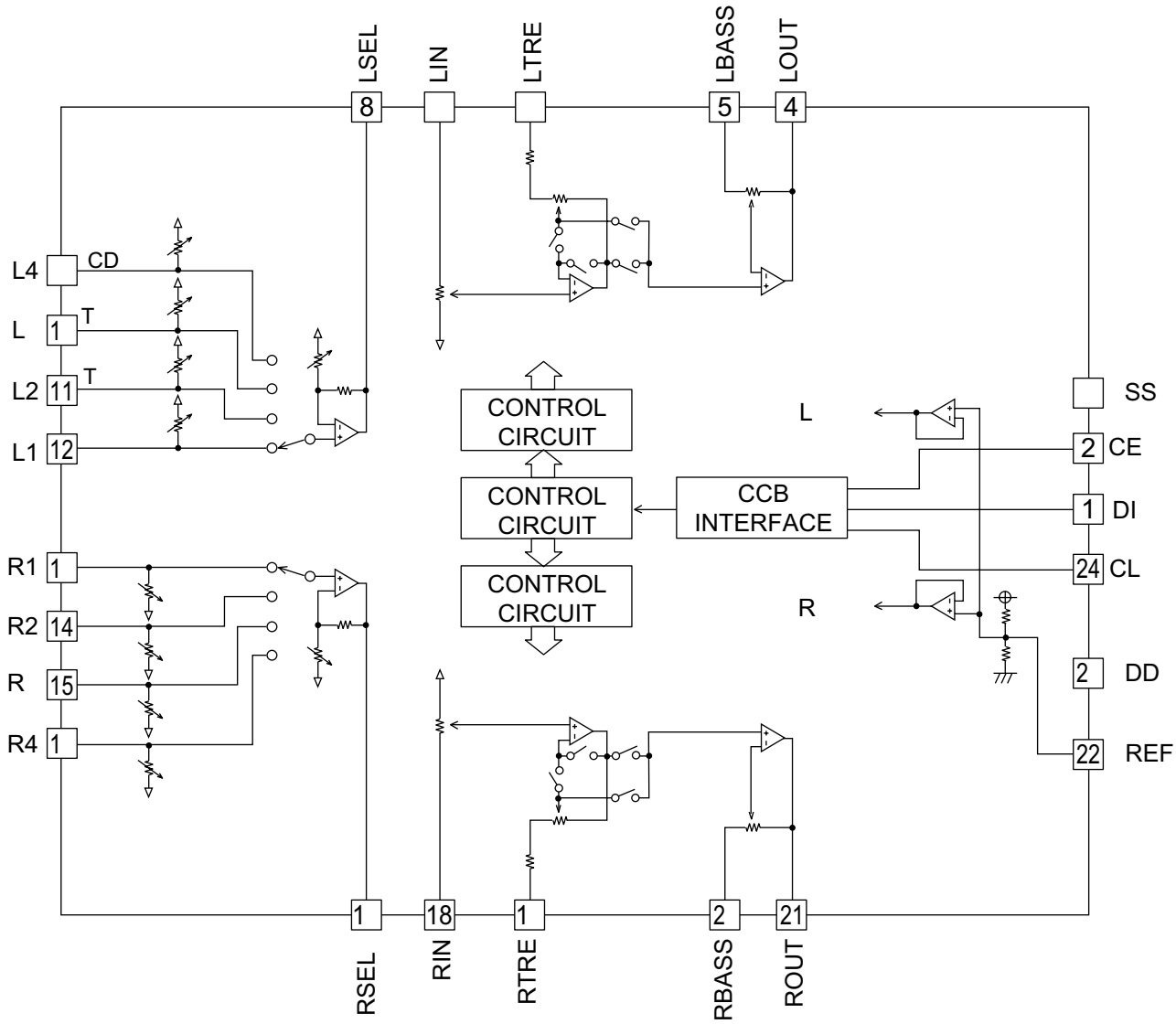


Figure 8-6 BLOCK DIAGRAM OF IC

IC701 RH-iXA008AWZZ: System Microcomputer (IXA008AW) (1/2) (Serial No.401xxxxx)

IC701 RH-iXA022AWZZ: System Microcomputer (IXA022AW) (1/2) (Serial No. 402xxxxx~)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) Power supply 5 V.
2	P37	-20dBATT	Output	-20dB Attenuator.
3	P36	T BIAS	Output	Tape record bias control.
4	P35	T_REC/PLAY	Output	Tape REC/PLAY control.
5	P34	T_T1/T2	Output	Tape T1/T2 Control.
6	P33	CD RESOUT	Output	CD Reset.
7	P32	CD_WRQ	Input	CD WRQ input.
8	P31	SUB CE	Output	MP3 Sub-micom CE.
9	P30	ILLU LED	Output	FL Edge light control.
10	RESET	RESET	Input	Reset Input.
11	X2	XOUT	Output	Main clock output 4.19 MHz.
12	X1	XIN	Input	Main clock input 4.19 MHz.
13	IC(VPP)	VPP	—	GND
14*	XT2	NO USE	—	Open
15	P04	CD_DRF	Input	CD DRF detect.
16	VDD	VDD	Input	(+) Power supply 5 V.
17	P27	CLK	Output	Clock output.
18	P26	DI	Output	Data output.
19	P25	DO	Input	Data input.
20	P24	CE	Output	CE Output.
21	P23	CD CE	Output	CD Chip enable.
22	P22	CD CLK	Output	CD Clock.
23	P21	CD DI	Output	CD Data output.
24	P20	CD DO	Input	CD Data input.
25	AVSS	AVSS	—	Analog ground.
26	ANI7	T RUN PULS	Input	Tape T1/T2 Run Pulse detect.
27*	ANI6	TUN SM	Input	Tuner signal meter.
28	ANI5	T_FP SW	Input	Tape Fool Proof A & B SW.
29	ANI4	PROTECT	Input	Power abnormal detect.
30	ANI3	VOL JOG	Input	Volume jog input.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	Key input.
34	AVDD	AVDD	Input	Analog power supply 5 V.
35	AVREF	AVREF	Input	Analog reference voltage 5 V.
36	INTP3	P_IN	Input	Power failure detect.
37	P02	PHOTO	Input	5-Changer Photo SW.
38	INTP1	SP DET	Input	Speaker abnormal detect.
39	INTP0	REMOCON	Input	Remocon input.
40	VSS	VSS	—	Ground voltage.
41	P74	S MUTE	Output	System mute control.
42	P73	TIMER LED	Output	Timer LED control.
43	P72	T_SOL B	Output	Tape 2 solenoid control.
44	P71	T_MOTOR	Output	Tape motor control.
45	P70	T_SOL A	Output	Tape 1 solenoid control.
46	VDD	VDD	Input	(+) Power supply 5 V.
47	P127	SP RLY	Output	Speaker relay control.
48	P126	AC RLY	Output	AC relay control.
49*	P125	RDS RST	Output	RDS reset.
50*	P124	RDS READY	Input	RDS ready.
51*	P123	RDS RDDA	Input	RDS data.
52*	P122	RDS RDCL	Output	RDS clock.
53	P121	TRAY SW2	Input	5-Changer Tray SW2.
54	P120	TRAY SW1	Input	5-Changer Tray SW1.
55	P117	DISC SW	Input	5-Changer Disc SW.
56	P116	CLAMP SW	Input	5-Changer Clamp SW.
57	P115	DIST	Input	Destination input.
58-68	FIP41-FIP31	S30-S20	Output	FL Segment driver.
69	P101/FIP30	S19/DEST0	Input	FL segment driver/Destination input.
70	P100/FIP29	S18/DEST1	Output	FL segment driver/Destination input.
71	P97/FIP28	S17/DEST2	Output	FL segment driver/Destination input.
72	P96/FIP27	S16/DEST3	Output	FL segment driver/Destination input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iXA008AWZZ: System Microcomputer (IXA008AW) (2/2) (Serial No.401xxxxx)

IC701 RH-iXA022AWZZ: System Microcomputer (IXA022AW) (2/2) (Serial No. 402xxxxx~)

Pin No.	Port Name	Terminal Name	Input/Output	Function
73-78	FIP26-FIP21	S15-S10	Output	FL segment driver.
79	VLOAD	VLOAD	Input	VLOAD -35 V
80-88	FIP20-FIP11	S9-S1	Output	FL segment driver.
89-100	FIP10-FIP0	G12-G1	Output	FL grid driver.

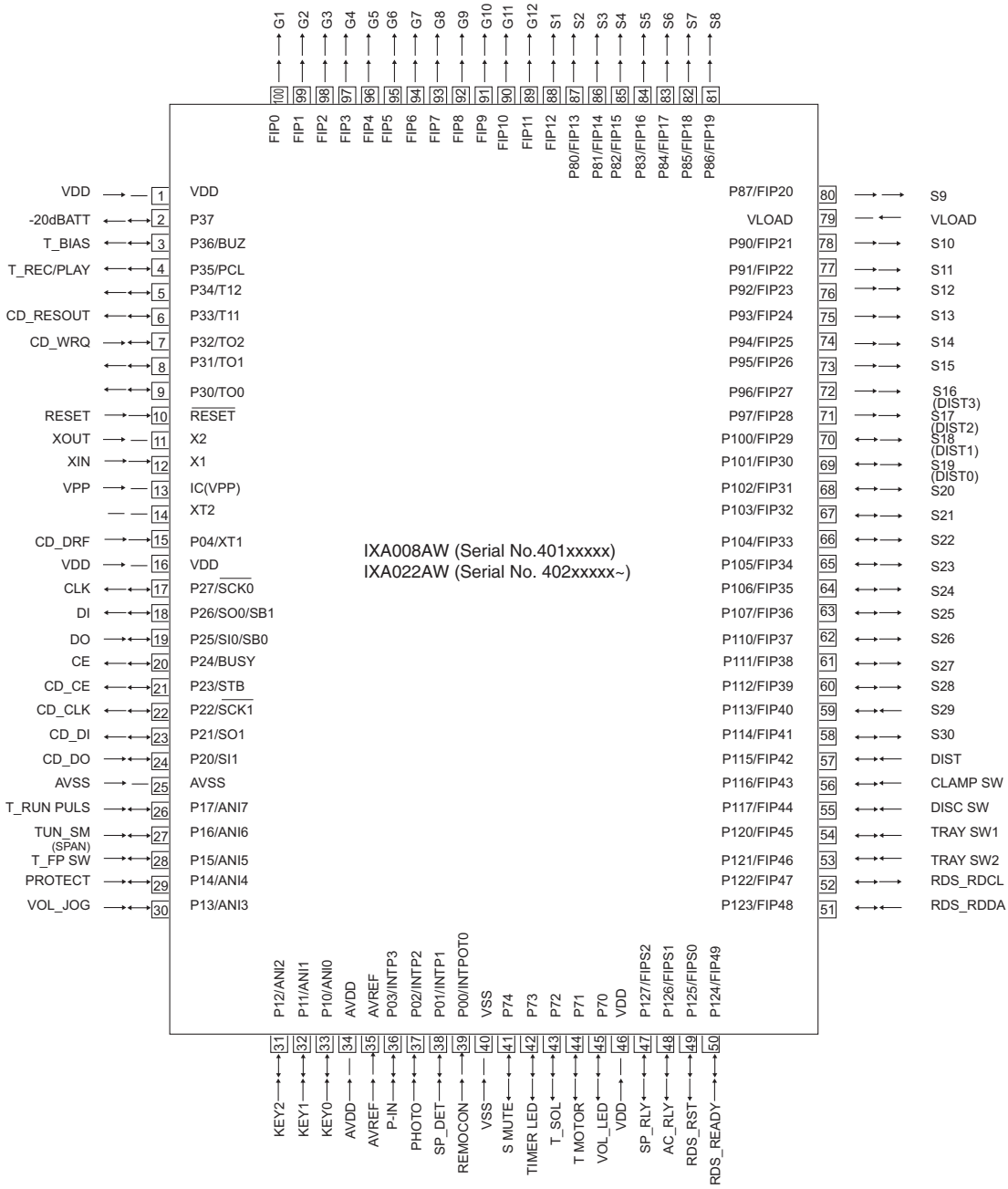


Figure 8-8 BLOCK DIAGRAM OF IC

IC851 VHIAN80T53/-1: Multi Regulator (AN80T53)

Pin No.	Terminal Name	Function
1	REG4 Output	5.1 V power supply with a minimum peak out current of 1200 mA.
2	REG3 Output	13 V power supply with a minimum peak out current of 1350 mA.
3	VCC	Connected to Power supplies.
4	GND	Connected to the IC substrate.
5	MODE 1	REG1, REG2,REG3 and REG4 outputs are turned ON when this pin is 5 V.
6	REG2 Output	10 V power supply with a minimum peak out current of 800 mA.
7	REG1 Output	8.5 V power supply with a minimum peak out current of 700 mA.

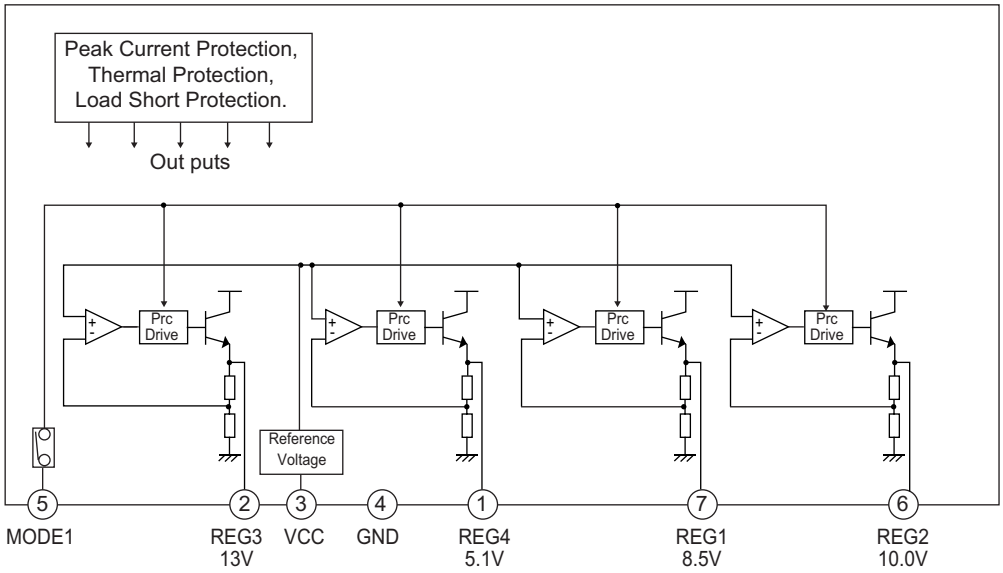
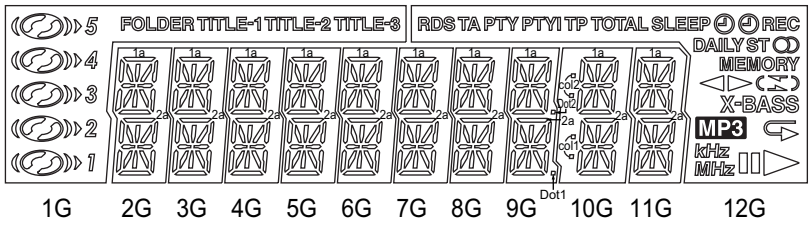


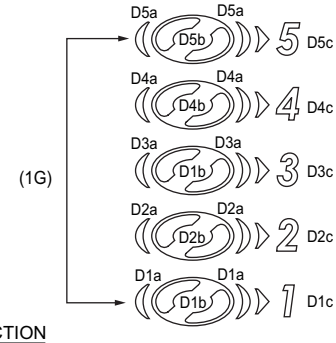
Figure 8-9 BLOCK DIAGRAM OF IC

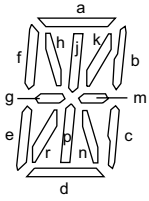
[2] FL Display

FL701 VVKNA12MM44-1

GRID ASSIGNMENT







ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	FOLDER	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	
P2	TITLE-1	1b	1b	1b	1b	1b	1b	1b	1b	1b	1b	
P3	TITLE-2	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	TOTAL
P4	TITLE-3	1j	1j	1j	1j	1j	1j	1j	1j	1j	1j	RDS
P5	5	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	TA
P6	D5-a	1f	1f	1f	1f	1f	1f	1f	1f	1f	1f	PTY
P7	D5-b	1m	1m	1m	1m	1m	1m	1m	1m	1m	1m	PTYI
P8	D5-c	1d	1d	1d	1d	1d	1d	1d	1d	1d	1d	TP
P9	4	1g	1g	1g	1g	1g	1g	1g	1g	1g	1g	SLEEP
P10	D4-a	1p	1p	1p	1p	1p	1p	1p	1p	1p	1p	DAILY
P11	D4-b	1e	1e	1e	1e	1e	1e	1e	1e	1e	1e	(L)
P12	D4-c	1n	1n	1n	1n	1n	1n	1n	1n	1n	1n	(R)
P13	3	1r	1r	1r	1r	1r	1r	1r	1r	1r	1r	REC
P14	D3-a	1c	1c	1c	1c	1c	1c	1c	1c	1c	1c	ST
P15	D3-b	2a	2a	2a	2a	2a	2a	2a	2a	2a	2a	◁
P16	D3-c	2b	2b	2b	2b	2b	2b	2b	2b	2b	2b	▷
P17	2	2k	2k	2k	2k	2k	2k	2k	2k	2k	2k	
P18	D2-a	2j	2j	2j	2j	2j	2j	2j	2j	2j	2j	(
P19	D2-b	2h	2h	2h	2h	2h	2h	2h	2h	2h	2h	
P20	D2-c	2f	2f	2f	2f	2f	2f	2f	2f	2f	2f	)
P21	1	2m	2m	2m	2m	2m	2m	2m	2m	2m	2m	MEMORY
P22	D1-a	2d	2d	2d	2d	2d	2d	2d	2d	2d	2d	
P23	D1-b	2g	2g	2g	2g	2g	2g	2g	2g	2g	2g	▷(II)
P24	D1-c	2p	2p	2p	2p	2p	2p	2p	2p	2p	2p	kHz
P25		2e	2e	2e	2e	2e	2e	2e	2e	2e	2e	MHz
P26		2n	2n	2n	2n	2n	2n	2n	2n	2n	2n	II
P27		2r	2r	2r	2r	2r	2r	2r	2r	2r	2r	MP3
P28		2c	2c	2c	2c	2c	2c	2c	2c	2c	2c	X-BASS
P29									Dot1	Col1		
P30									Dot2	Col2		

OUTER DIMENSIONS

PIN CONNECTION

PIN NO.	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
CONNECTION	F2	F2	NP	NP	P30	P29	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9

PIN NO.	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P8	P7	P6	P5	P4	P3	P2	P1	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	NX	NX	2G	1G	NP	F1	F1

— MEMO —

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-MPS1000

CD-MPS1000 Mini Component System consisting of CD-MPS1000 (main unit) and CP-MPS1000 (speaker system).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

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Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

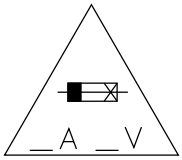
VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.



CAUTION:FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F801, F802 5A, 125V / F803, F804 2A, 125V / F805 5A, 125V FUSES

ATTENTION:POUR ASSURER UNE LONGUE PROTECTION CONTRE UNINCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DE TYPE F801, F802 5A, 125V / F803, F804 2A, 125V / F805 5A, 125V

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-MPS1000

NO.	PART CODE	★	PRICE RANK	DESCRIPTION

CD-MPS1000

INTEGRATED CIRCUITS

IC1	VHILC78648E-1	J	AW	CD Servo,LC78648E
IC2	VHILA6261//-1	J	AN	Focus/Tracking/Spin/Sled Driver, LA6261
IC3	VHILC78683E-1	J	BH	MP3 Decoder,LC78683E
IC4	VHIL8316V35-1	J		DRAM,L8316V35
IC5	RH-IXA006AWZZ	J	AT	MP3 Sub Microcomputer, IXA006AW
IC6	VHISI3033LUS1	J		3.3V Regulator,SI3033LUS
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IXA008AWZZ	J	AX	System Microcomputer, IXA008AW (Serial No.401*****)
IC701	RH-IXA022AWZZ	J	AX	System Microcomputer, IXA022AW (Serial No.402*****~)
IC851	VHIAN80T53/-1	J	AL	Multi Regulator,AN80T53
IC854	VHIAN78L05/-1	J	AE	Voltage Regulator,AN78L05
IC901	VHISTK41244-1	J	BF	Power Amp.,STK41244

TRANSISTORS

Q1	VSKTA1504Y/-1	J	AB	Silicon,PNP,KTA1504 Y
Q2	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q3~5	VS2SD601AR/-1	J	AC	Silicon,NPN,2SD601 AR
Q101~104	VSKTC3200GR-1	J	AC	Silicon,NPN,KTC3200 GR
Q105~108	VSKTC3875GR-1	J	AB	Silicon,NPN,KTC3875 GR
Q109	VSKTA1504Y/-1	J	AB	Silicon,PNP,KTA1504 Y
Q110	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
Q111	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q112	VSKTA1504Y/-1	J	AB	Silicon,PNP,KTA1504 Y
Q113,114	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
Q302	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q601~604	VSKTC3875GR-1	J	AB	Silicon,NPN,KTC3875 GR
Q706~708	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q709,710	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
Q711	VSKRA107S//-1	J	AB	Digital,NPN,KRA107 S
Q712~714	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
Q715	VSKRA107S//-1	J	AB	Digital,NPN,KRA107 S
Q716	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
Q717	VSKRA107S//-1	J	AB	Digital,NPN,KRA107 S
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q841	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q885,886	VSKTC3875GR-1	J	AB	Silicon,NPN,KTC3875 GR
Q901~904	VSKTC3875GR-1	J	AB	Silicon,NPN,KTC3875 GR
Q905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906,907	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q908,909	VSKTC3875GR-1	J	AB	Silicon,NPN,KTC3875 GR

DIODES

D1	VHDKDS184//-1	J	AB	Silicon,KDS184
D301,302	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D690,691	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D709~716	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D801,802	VHDD10XB60F-1	J	AL	Silicon,D10XB60F
D803~806	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D842~845	VHD1N4004S/-1	J	AB	Silicon,1N4004S
⚠ D846	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D853	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D856	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D860~863	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D885	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D905~907	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D909,910	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D911~914	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
LED701	VHP304VT2H3-1	J	AC	LED,Red,304VT2H3
LED703	VHPSDPB50CD-1	J	AK	LED,Blue,SDPB50CD
ZD1	VHEMA8033//-1	J	AC	Zener,3.3V,MA8033
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD801	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD802	VHEDZ7R5BSB-1	J	AB	Zener,7.5V,DZ7.5BSB
ZD803	VHEDZ300BSB-1	J	AB	Zener,30V,DZ30BSB
ZD805	VHEDZ120BSB-1	J	AB	Zener,12V,DZ12BSB
ZD902,903	VHEDZ120BSB-1	J	AB	Zener,12V,DZ12BSB

FILTERS

BF301	RFILR0008AWZZ	J	AE	Band Pass Filter
CF303	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

⚠ PT801	RTRNP0518AWZZ	J	BL	Power,Main
⚠ PT841	RTRNP0483AWZZ	J	AL	Power,Sub
T301	RCILB0065AWZZ	J	AC	FM OSC.
T302	RCILI0017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Antenna
T306	RCILB0067AWZZ	J	AD	AM OSC.
T351	RCILI0019AWZZ	J	AD	AM IF

COILS

L1	RCILC0011AWZZ	J	AD	0.82 µH
L2,3	RCILC0012AWZZ	J	AD	2.2 µH
L103	VP-MK331K0000	J	AB	330 µH,Choke
L312	RCILR0056AWZZ	J	AB	FM RF
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L701	VP-DH101K0000	J	AB	100 µH,Choke
L901,902	RCILZ0024AWZZ	J	AC	3 µH,Choke
L920,921	RCILZ0137AFZZ	J	AA	0.29 µH

VARIABLE CAPACITORS

VD301	VHCSVC347S/-1	J	AG	Variable Capacitance,SVC347S
VD302,303	VHCSVC230C/-1	J	AD	Variable Capacitance,SVC230C

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0019AWZZ	J	AF	Crystal,4.5 MHz
XL1	RCRM-0047AWZZ	J	AE	Ceramic,16.9344 MHz
XL2	RCRM-0043AWZZ	J	AB	Ceramic,4.19 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.19 MHz

CAPACITORS

C1	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C2	VCKYCY1CB103K	J	AA	0.01 µF,16V
C3	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C4	VCKYCY1HB102K	J	AA	0.001 µF,50V
C5	VCKYCY1CB473K	J	AA	0.047 µF,16V
C6	VCKYCY1CB103K	J	AA	0.01 µF,16V
C8	VCKYCY1HB272K	J	AA	0.0027 µF,50V
C9	RC-EZ0004AWZZ	J	AD	3.3 µF,16V,Electrolytic
C10	VCKYCY1CB104K	J	AB	0.1 µF,16V
C11	VCKYCY1CB563K	J	AB	0.056 µF,16V
C12	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C13	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C14	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C17	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C18	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C20	VCEAZA0JW337M	J	AC	330 µF,6.3V,Electrolytic
C21,22	VCEAZA1EW106M	J	AB	10 µF,25V,Electrolytic
C23,24	VCQYKA1HM152K	J	AB	0.0015 µF,50V,Mylar
C25	VCKYCY1CB103K	J	AA	0.01 µF,16V
C26	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C27,28	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C29	VCKYCY1HB102K	J	AA	0.001 µF,50V
C30	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C31	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C32	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C33	VCKYCY1CB563K	J	AB	0.056 µF,16V
C34	VCKYCY1CB103K	J	AA	0.01 µF,16V
C35	VCKYCY1CB473K	J	AA	0.047 µF,16V
C36	VCKYCY1CF224Z	J	AB	0.22 µF,16V
C37	VCKYCY1CB104K	J	AB	0.1 µF,16V

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C38	VCKYCY1CB103K	J	AA	0.01 µF,16V
C39	VCKYCY1CB104K	J	AB	0.1 µF,16V
C41	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C42	VCCCCY1HH330J	J	AA	33 pF (CH),50V
C44	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C46,47	VCKYCY1CB103K	J	AA	0.01 µF,16V
C48	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C50	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C51~53	VCKYCY1CB103K	J	AA	0.01 µF,16V
C56,57	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C58	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C59	VCKYCY1CB104K	J	AB	0.1 µF,16V
C60	VCKYCY1HB102K	J	AA	0.001 µF,50V
C61	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C62	VCKYCY1CB103K	J	AA	0.01 µF,16V
C63	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C64	VCCCCY1HH330J	J	AA	33 pF (CH),50V
C65	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C66	VCKYCY1CB103K	J	AA	0.01 µF,16V
C68	VCKYCY1CB103K	J	AA	0.01 µF,16V
C69	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C70	VCKYCY1CB103K	J	AA	0.01 µF,16V
C71	VCKYCY1CB104K	J	AB	0.1 µF,16V
C72,73	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C74,75	VCKYCY1HB102K	J	AA	0.001 µF,50V
C76	VCKYCY1CB103K	J	AA	0.01 µF,16V
C82	VCKYCY1HB332K	J	AA	0.0033 µF,50V
C83	VCKYCY1HB102K	J	AA	0.001 µF,50V
C84	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C85,86	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C101,102	VCKYCY1HB561K	J	AA	560 pF,50V
C103	VCKYBT1HB181K	J	AA	180 pF,50V
C104	VCCCCY1HH181J	J	AA	180 pF (CH),50V
C105,106	VCKYCY1HB152K	J	AA	0.0015 µF,50V
C107~110	VCKYCY1HB331K	J	AA	330 pF,50V
C111,112	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C113,114	VCTYPA1EX393K	J	AA	0.039 µF,25V
C115,116	VCKYCY1HB561K	J	AA	560 pF,50V
C117,118	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C119,120	VCKYCY1HB222K	J	AA	0.0022 µF,50V
C121	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C123,124	VCKYCY1HB271K	J	AA	270 pF,50V
C125,126	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C127,128	VCTYPA1CX223K	J	AA	0.022 µF,16V
C129,130	VCKYCY1HB332K	J	AA	0.0033 µF,50V
C131,132	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C133	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C134	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C135	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C137	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C138	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
C139	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
C140	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C141	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C143	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C150	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C302	VCKYCY1HB102K	J	AA	0.001 µF,50V
C303	VCCCCY1HH100D	J	AA	10 pF (CH),50V
C304	VCKYCY1HB103K	J	AA	0.01 µF,50V
C305	VCCCCY1HH4R7C	J	AA	4.7 pF (CH),50V
C306	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C307	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C308	VCCCCY1HH4R7C	J	AA	4.7 pF (CH),50V
C309	VCKYCY1HB102K	J	AA	0.001 µF,50V
C310	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C311	VCCCCY1HH180J	J	AA	18 pF (CH),50V
C312	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C313	VCCCCY1HH220J	J	AA	22 pF (CH),50V
C315	VCKYCY1HB103K	J	AA	0.01 µF,50V
C316	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C317	VCKYCY1HB102K	J	AA	0.001 µF,50V
C318	VCKYBT1HB101K	J	AA	100 pF,50V
C320	VCKYBT1HB102K	J	AA	0.001 µF,50V
C323	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C324	VCCCCY1HH4R7C	J	AA	4.7 pF (CH),50V
C330	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C332	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C334	VCCCCY1HH220J	J	AA	22 pF (CH),50V
C335	VCKYCY1HB561K	J	AA	560 pF,50V
C338	VCKYCY1HB102K	J	AA	0.001 µF,50V
C342	VCKYCY1EF223Z	J	AB	0.022 µF,25V

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C347	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C350,351	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C352	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C353,354	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C355	VCCCCY1HH220J	J	AA	22 pF (CH),50V
C356	VCKYCY1HB102K	J	AA	0.001 µF,50V
C357	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C361	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C362	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C363	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C364	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C365	VCTYPA1CX223K	J	AA	0.022 µF,16V
C366	VCKYCY1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCCCCY1HH270J	J	AA	27 pF (CH),50V
C370~372	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX153K	J	AA	0.015 µF,16V
C376~379	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C380	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C381	VCCCCY1HH120J	J	AA	12 pF (CH),50V
C382	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C383	VCCSBT1HL470J	J	AA	47 pF,50V
C384	VCKYCY1HB102K	J	AA	0.001 µF,50V
C385	VCKYCY1HB103K	J	AA	0.01 µF,50V
C386	VCKYCY1HB331K	J	AA	330 pF,50V
C387	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C388	VCKYCY1HB102K	J	AA	0.001 µF,50V
C389	VCKYBT1HB102K	J	AA	0.001 µF,50V
C391	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C392	VCKYCY1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C395	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C601	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C602	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C603	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C605,606	VCFYFA1HA104J	J	AC	0.1 µF,50V,Thin Film
C607,608	VCFYFA1HA823J	J	AB	0.082 µF,50V
C609,610	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C611,612	VCKYCY1HB222K	J	AA	0.0022 µF,50V
C613,614	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C615,616	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C617~624	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C625,626	VCKYCY1HB222K	J	AA	0.0022 µF,50V
C631	VCKYBT1HB103K	J	AB	0.01 µF,50V
C639	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C640	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C651~653	VCKYCY1HB221K	J	AA	220 pF,50V
C690,691	VCKYPA1HB391K	J	AA	390 pF,50V
C693	VCKYCY1HB103K	J	AA	0.01 µF,50V
C694,695	VCKYPA1HB102K	J	AA	0.001 µF,50V
C696	VCKYPA1HB103K	J	AA	0.01 µF,50V
C701	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C702	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C704	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C705	VCCCCY1HH180J	J	AA	18 pF (CH),50V
C707	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C709,710	VCKYCY1HB473K	J	AB	0.047 µF,50V
C714	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C715	VCKYCY1HB103K	J	AA	0.01 µF,50V
C717	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C720,721	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C722	VCKYCY1HF103Z	J	AB	0.01 µF,50V
C723	VCKYCY1EF473Z	J	AB	0.047 µF,25V
C727	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C801	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C802,803	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C804	VCEAZA1JW227M	J	AD	220 µF,63V,Electrolytic
C805	VCEAZA2AW226M	J	AC	22 µF,100V,Electrolytic
C806~809	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C810,811	VCFYDA2AA224J	J	AD	0.22 µF,100V,Thin Film
C841	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C842	VCEAZA1VW477M	J	AD	470 µF,35V,Electrolytic
C843	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
⚠ C844	RC-KZ002LAWZZ	J	AC	0.0047 µF,250V,Ceramic
C850	VCEAZW1EW478M	J	AK	4700 µF,25V,Electrolytic
C854	VCEAZA1EW227M	J	AC	220 µF,25V,Electrolytic

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C855	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C856	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C859	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C861	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C864,865	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C885	VCKYCY1HB104K	J	AD	0.1 µF,50V
C901,902	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C903,904	VCKYCY1HB102K	J	AA	0.001 µF,50V
C905,906	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C907	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C908	VCCCCY1HH3R0C	J	AA	3 pF (CH),50V
C909	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C910	VCCCCY1HH3R0C	J	AA	3 pF (CH),50V
C911,912	VCEAZA2AW107M	J	AD	100 µF,100V,Electrolytic
C913	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C914,915	VCEAZA2AW107M	J	AD	100 µF,100V,Electrolytic
C916	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C917	VCKYCY1HB103K	J	AA	0.01 µF,50V
C918	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C919	VCKYCY1HB103K	J	AA	0.01 µF,50V
C920	RC-EZ0124AWZZ	J	AR	3900 µF,85V,Electrolytic
C921,922	RC-EZ0065AWZZ	J	AN	4700 µF,50V,Electrolytic
C923	RC-EZ0124AWZZ	J	AR	3900 µF,85V,Electrolytic
C925	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C928,929	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C931	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C944	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C946	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C952	VCKYCY1HB103K	J	AA	0.01 µF,50V

RESISTORS

	VRS-CY1JB000J	J	AA	0 ohm,Jumper,0.8×1.55mm,Green
R3	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R6	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R7	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R8	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R9	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R10	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R12	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R13	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R14~16	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R17	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R18,19	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R20~22	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R23,24	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R25,26	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R27	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R28	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R29	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R30~37	VRS-CY1JB391J	J	AA	390 ohms,1/16W
R38	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R39	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R40	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R41~48	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R49	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R50	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R52	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R54	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R55	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R56	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R57,58	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R59	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R60	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R61	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R62	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R63	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R64	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R65	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R66,67	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R68	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R69,70	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R71	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R72	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R73	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R74	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R75	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R76~78	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R79	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R80	VRS-CY1JB820J	J	AA	82 ohms,1/16W
R81	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R82	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R83	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R84	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R85	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R86~89	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R91,92	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R93	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R94,95	VRD-ST2EE1R0J	J	AA	1 ohm,1/4W
R96	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R97	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R98	VRS-CY1JB271J	J	AA	270 ohms,1/16W
R99	VRS-CY1JB225J	J	AA	2.2 Mohms,1/16W
R101,102	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R103,104	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R105,106	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R107,108	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R109,110	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R111	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R112	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R113,114	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R115,116	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R117,118	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R119,120	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R121,122	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R123,124	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R126,127	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R128,129	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R130,131	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R132,133	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R134,135	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R136,137	VRS-CY1JB224J	J	AA	220 kohms,1/16W
R138,139	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R140	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R141	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R142	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R143	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R144	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R145	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R146,147	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R148	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R149	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R150	VRS-CY1JB683J	J	AA	68 kohms,1/16W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R302	VRS-CY1JB100J	J	AA	10 ohm,1/16W
R309	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R311	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R313	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R316	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R322	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R323	VRS-CY1JB683J	J	AA	68 kohms,1/16W
R325	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R336	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R350	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R351	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R352	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R353	VRS-CY1JB271J	J	AA	270 ohms,1/16W
R355	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R356	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R357	VRS-CY1JB474J	J	AA	470 kohms,1/16W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRS-CY1JB182J	J	AA	1.8 kohms,1/16W
R360	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R365	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R372~374	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R375	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R376	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R377	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R378	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R379	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R380	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R381	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R395	VRS-CY1JB473J	J	AA	47 kohms,1/16W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R573	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R593	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R601~603	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R604,605	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R606,607	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R608~611	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R612,613	VRS-CY1JB391J	J	AA	390 ohms,1/16W
R614,615	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R616,617	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R618	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R619	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R620,621	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R641	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R642	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R643,644	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R690,691	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R692,693	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R701~703	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R704,705	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R706	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R707~712	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R713~716	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R717	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R718~722	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R723	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R724	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R726	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R727,728	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R729	VRD-ST2CD561J	J	AA	560 ohms,1/6W
R730	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R731	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R732,733	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R736	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R739	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R740	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R741	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R745	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R746	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R750	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R751	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R759	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R761,762	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R763	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R766~768	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R769	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R770	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R771	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R773	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R775,776	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R777~779	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R780	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R781	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R782	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R783	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R784	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R785	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R786	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R787~789	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R790	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R791	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R794,795	VRD-ST2EE1R5J	J	AA	1.5 ohms,1/4W
R801	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R802	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R803	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R804,805	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R806	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R808	VRD-RT2HD222J	J	AA	2.2 kohms,1/2W
R841	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R842	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R843	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R844	VRD-ST2EE820J	J	AA	82 ohms,1/4W
R853	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R854	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R857	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R858	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R859	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R863	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R864	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R885	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R886,887	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R888,889	VRD-ST2CD473J	J	AA	47 kohms,1/6W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
⚠ R890	RR-HZ0001AWZZ	J	AE	4.7 Mohms,1/2W
R891	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R901,902	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R903,904	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R905,906	VRS-CY1JB561J	J	AA	560 ohms,1/16W
R907	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R908	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R909	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R910	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R911	VRS-CY1JB563J	J	AA	56 kohms,1/16W
⚠ R912	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R913	VRN-CM05NR22J	J	AD	0.22 ohms,5W
R916	VRN-CM05NR22J	J	AD	0.22 ohms,5W
R917	VRN-CM05N0R1J	J	AD	0.1 ohm,5W
R918	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R919,920	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R921	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R922	VRN-CM05N0R1J	J	AD	0.1 ohm,5W
R925,926	VRD-RT2HD152J	J	AA	1.5 kohms,1/2W
R927,928	VRD-ST2EE393J	J	AA	39 kohms,1/4W
R929,930	VRD-ST2EE473J	J	AA	47 kohms,1/4W
R934,935	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R937	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R938~941	VRD-RT2HD100J	J	AA	10 ohm,1/2W
R942,943	VRS-VV3DA681J	J	AC	680 ohms,2W
R944,945	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R946	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R947	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R949	VRD-RT2HD102J	J	AA	1 kohm,1/2W
R950	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R951	VRD-RT2HD102J	J	AA	1 kohm,1/2W
R956	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R957	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
⚠ R958	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R959	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R983	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R984	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R985,986	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R987,988	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
RD01	VRD-ST2CD681J	J	AA	680 ohms,1/6W
RD02	VRS-CY1JB821J	J	AA	820 ohms,1/16W
RD03	VRS-CY1JB102J	J	AA	1 kohm,1/16W
RD04	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD05	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
RD06	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
RD11	VRS-CY1JB681J	J	AA	680 ohms,1/16W
RD12	VRS-CY1JB821J	J	AA	820 ohms,1/16W
RD13	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD14	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
RD15	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
RD16	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
RD17	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
RD18	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
RD19	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RD20	VRS-CY1JB153J	J	AA	15 kohms,1/16W
RD21	VRS-CY1JB333J	J	AA	33 kohms,1/16W
RD23	VRD-ST2CD681J	J	AA	680 ohms,1/6W
RD24	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD25	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD26	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
RD27	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
RD28	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
RD29	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
RD30	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
RD31	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RD32	VRS-CY1JB153J	J	AA	15 kohms,1/16W
RM1,2	VRS-CY1JB103J	J	AA	10 kohm,1/16W

OTHER CIRCUITRY PARTS

BI601/CNS601	QCNWN2715AWPZ	J	AG	Connector Ass'y,9/8Pin
BI603/CNS603	QCNWN2714AWPZ	J	AK	Connector Ass'y,6/5Pin
BI801/CNS801	QCNWN2713AWPZ	J	AH	Connector Ass'y,11/10Pin
CNP1	QCNCWYP16AWZZ	J	AD	Socket,16Pin
CNP2	92LCONE8P53254	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP4	92LCONE7P53253	J	AC	Plug,7Pin
CNP5	QCNCWZY16AWZZ	J	AD	Socket,16Pin
CNP6	QCNCWZX11AWZZ	J	AC	Socket,11Pin
CNP6A	QCNCWZO11AWZZ	J	AC	Socket,11Pin

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP102	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNP301	92LCONE2P5268	J	AB	Plug,2Pin
CNP602	92LCONE5P53253	J	AB	Plug,5Pin
CNP701A	QCNCWZY16AWZZ	J	AD	Socket,16Pin
CNP701B	QCNCWZX16AWZZ	J	AD	Socket,16Pin
CNP702A	QCNCWZY07AWZZ	J	AC	Socket,7Pin
CNP704	QCNCWZY16AWZZ	J	AD	Socket,16Pin
CNP801	92LCONEAP5267X	J	AC	Plug,10Pin
CNP802	QCNCW012FAWZZ	J	AC	Plug,6Pin
CNP901	QCNCW012EAWZZ	J	AC	Socket,5Pin
CNP971	92LCONE2P53253	J	AB	Plug,2Pin
CNS3A/B	QCNWNA087AWPZ	J	AF	Connector Ass'y,6/6Pin
CNS971	QCNWNA080AWPZ	J	AC	Connector Ass'y,2Pin
⚠F801	QFS-D502DAWNI	J	AC	Fuse,5A/125V
⚠ F802	QFS-D502DAWNI	J	AC	Fuse,5A/125V
⚠ F803	QFS-D202BSJNI	J	AB	Fuse,2A/125V
⚠ F804	QFS-D202BSJNI	J	AB	Fuse,2A/125V
⚠ F805	QFS-D502DAWNI	J	AC	Fuse,5A/125V
FFC1	QCNWNA088AWPZ	J	AF	Flat Cable,16Pin
FFC4	QCNWN2701AWPZ	J	AD	Flat Cable,11Pin
FFC701	QCNWN2716AWPZ	J	AF	Flat Cable,16Pin
FFC702	QCNWN2495AWZZ	J	AD	Flat Cable,7Pin
FFC704	QCNWN2718AWPZ	J	AF	Flat Cable,16Pin
FJ1	RCORFA001AWZZ	J	AB	Core,3.3
FL701	VVKNA12MM44-1	J	AX	FL Display
FW705	QCNWN2712AWPZ	J	AD	Flat Wire,6Pin
FW901	QCNWN2711AWPZ	J	AD	Flat Wire,5Pin
JK690	QSOCJ0313AWZZ	J	AF	Jack,Game Input
JK691	QSOCJ0120AWZZ	J	AD	Jack,Video Out
JK692	QJAKM0004AWZZ	J	AK	Jack,Headphones
JOG701	QSW-ZA001AWZZ	J	AE	Switch,Jog Type [Volume]
LG1~4	QLUGP0001AWZZ	J	AC	Lug Terminal
M1	92LMTR5529AASY	J	AD	Motor with Gear [Tray]
M2	92LMTR5529AASY	J	AD	Motor with Gear [Main Cam]
M901	RMOTV0059AWZZ	J	AL	Motor Air Cooling,Fan
NM1	92LMTR5515CASY	J	AS	Motor with Chassis [Spindle]
NM2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
NSW1	QSW-F9001AW01	J	AD	Switch,Push Type [Pickup In]
⚠ RL841	RRLYD0018AWZZ	J	AH	Relay
RL914	RRLYD0016AWZZ	J	AH	Relay
RX1	VHPGP1S094HCZ	J	AF	Photo Interrupter,GP1S094HCZ
RX701	VHLPIC3704/-1	J	AG	Remote Sensor,PIC3704
SO302	QTANC0206AWZZ	J	AD	Terminal,FM Antenna
SO902	QTANA0424AWZZ	J	AE	Terminal,Speaker
SW1	QSW-P9003AWZZ	J	AD	Switch,Push Type [Clamp]
SW2	QSW-P9003AWZZ	J	AD	Switch,Push Type [Tray SW1]
SW3	QSW-P9003AWZZ	J	AD	Switch,Push Type [Tray SW2]
SW4	QSW-P9006AWZZ	J	AF	Switch,Push Type [Disc]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [Power On/Stand-by]
SW702	92LSWICH1401AT	J	AC	Switch,Key Type [Clock/Timer]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [Tuning Up]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [Tuning Down]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [Fast Rewind/Preset Down]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [Equalizer]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [Fast Forward/Preset Up]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [Tuner (Band)]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [Tape]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [Game/Video]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [X-Bass/Demo]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [Left]
SW718	92LSWICH1401AT	J	AC	Switch,Key Type [Up]
SW719	92LSWICH1401AT	J	AC	Switch,Key Type [Character]
SW720	92LSWICH1401AT	J	AC	Switch,Key Type [Right]
SW721	92LSWICH1401AT	J	AC	Switch,Key Type [Enter]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [Down]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [MP3 Navigation]
SW725	92LSWICH1401AT	J	AC	Switch,Key Type [Play/Repeat]
SW726	92LSWICH1401AT	J	AC	Switch,Key Type [Stop]
SW727	92LSWICH1401AT	J	AC	Switch,Key Type [Rec/Pause]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [Memory/Set]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [Open/Close]
SW730	92LSWICH1401AT	J	AC	Switch,Key Type [Direct Play]
SW731	92LSWICH1401AT	J	AC	Switch,Key Type [Disc2]
SW732	92LSWICH1401AT	J	AC	Switch,Key Type [Disc4]
SW733	92LSWICH1401AT	J	AC	Switch,Key Type [Disc5]
SW734	92LSWICH1401AT	J	AC	Switch,Key Type [Disc3]
SW735	92LSWICH1401AT	J	AC	Switch,Key Type [Disc1]
WTM705	QCNCW019FAWZZ	J	AB	Socket,6Pin
WTM901	QCNCW019EAWZZ	J	AB	Socket,5Pin

CD MECHANISM PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LMCUSN1524A	J	AD	Cushion
⚠ 306	92LHPC1LFASY	J	BB	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
307	PCUSG0001AWSA	J	AD	Cushion
308	PCUSG0004AWSA	J	AD	Cushion
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
NM1	92LMTR5515CASY	J	AS	Motor with Chassis [Spindle]
NM2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
NSW1	QSW-F9001AW01	J	AD	Switch,Push Type [Pickup In]

CHANGER MECHANISM PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
101	GCOVA1513AWZZ	J	AF	Disc Tray
102	GCOVA1514AWZZ	J	AF	Guide Tray
103	LANGG0008AWZZ	J	AD	Outer Tray Guide
104	LANGG0009AWZZ	J	AC	Inner Tray Guide
105	LCHSM0194AWZZ	J	AP	Main Base
106	LHLDZ9017AWZZ	J	AF	CD Mechanism Holder
107	LPLTP0014AWZZ	J	AK	Top Plate
108	LPLTP0015AWZZ	J	AG	Gear Plate
109	MHOLD5529ASY	J	AP	Up/Down Holder Ass'y
109- 1	LHLDM9001AWZZ	J	AD	Stabilizer
109- 2	LHLDZ9019AWM1	J	AK	Up/Down Holder Ass'y
109- 3	LPLTM0017AWZZ	J	AB	Stabilizer Plate
109- 4	LPLTMA001AWFW	J	AC	Plate
109- 5	PMAGF0003AWZZ	J	AF	Magnet
110	MLEVP0129AWZZ	J	AC	Tray Lock Lever
111	MLEVP0130AWZZ	J	AG	Gear Up/Down Board
112	MLEVP0131AWZZ	J	AD	Mechanism Up/Down Board (L)
113	MLEVP0132AWZZ	J	AD	Mechanism Up/Down Board (R)
114	MLEVP0133AWZZ	J	AC	Mechanism Clamp Board
115	MLEVP0134AWZZ	J	AD	L/R Joint Lver
116	MLEVP0135AWZZ	J	AC	Tray Set Lever
117	MLEVP0136AWZZ	J	AC	Mechanism Clamp Switch Lever
118	MLEVP0137AWZZ	J	AC	Mechanism Clamp Switch Arm
119	MLEVP0138AWZZ	J	AB	Inner GR Up/Down Lever
120	MLEVP0139AWZZ	J	AC	Outer GR Up/Down Lever
121	MSPRC0044AWFJ	J	AB	Shift Spring
122	MSPRD0191AWFJ	J	AC	Disc Stop Spring
123	MSPRD0192AWFJ	J	AB	Balance Spring
124	NGERH0176AWZZ	J	AF	Tray Big Gear
125	NGERH0177AWZZ	J	AC	Tray Front Gear A
126	NGERH0178AWZZ	J	AC	Tray Front Gear B
127	NGERH0179AWZZ	J	AC	Tray Rear Gear A
128	NGERH0180AWZZ	J	AB	Tray Rear Gear B
129	NGERH0181AWZZ	J	AC	Mechanism Clamp Gear A
130	NGERH0182AWZZ	J	AC	Mechanism Clamp Joint Gear
131	NGERH0183AWZZ	J	AC	Mechanism Clamp Board Gear
132	NGERH0184AWZZ	J	AC	Tray Rear Joint Gear A
133	NGERH0185AWZZ	J	AC	Tray Rear Joint Gear B
134	NGERH0186AWZZ	J	AC	Tray Rear Joint Gear C
135	NGERH0187AWZZ	J	AB	Tray Rear Drive Gear
136	NGERH0188AWZZ	J	AC	Tray Drive Gear
137	NGERH0189AWZZ	J	AB	Tray Front Drive Gear
138	NGERH0190AWZZ	J	AC	Tray Front Joint Gear
139	NGERH0191AWZZ	J	AE	Mode Big Gear
140	NGERH0192AWZZ	J	AC	G-Up/Down Gear A
141	NGERH0193AWZZ	J	AC	G-Up/Down Gear B
142	NGERH0194AWZZ	J	AB	Mechanism Up/Down Gear A
143	NGERH0195AWZZ	J	AC	Mechanism Up/Down Gear B
144	NGERH0196AWZZ	J	AC	Mechanism Clamp Switch Gear
145	NGERH0198AWZZ	J	AB	Reduction Gear A
146	NGERH0199AWZZ	J	AB	Reduction Gear B
147	NGERH0200AWZZ	J	AB	Reduction Gear C
148	NGERH0201AWZZ	J	AB	Reduction Gear D
149	NGERH0202AWZZ	J	AB	Up/Down Reduction Gear E
150	NGERH0203AWZZ	J	AB	Up/Down Reduction Gear F

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
151	NGERH0204AWZZ	J	AB	Tray Reduction Gear E
152	NSFTT0084AWFD	J	AD	Shaft,Main Base
801	LX-BZA006AWFD	J	AB	Screw,Special
803	XEBSD20P10000	J	AA	Screw,ø2×10mm
804	XEBSD30P10000	J	AA	Screw,ø3×10mm
M1	92LMTR5529AASY	J	AD	Motor with Gear [Tray]
M2	92LMTR5529AASY	J	AD	Motor with Gear [Main Cam]
SW1	QSW-P9003AWZZ	J	AD	Switch,Push Type [CLAMP]
SW2	QSW-P9003AWZZ	J	AD	Switch,Push Type [TRAY SW1]
SW3	QSW-P9003AWZZ	J	AD	Switch,Push Type [TRAY SW2]
SW4	QSW-P9006AWZZ	J	AF	Switch,Push Type [DISC]

CABINET PARTS

201	CCABA5736AW01	J		Front Panel Ass'y
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	GCOVA1521AWSA	J	AK	Cover,Cassette [Tape 1]
201- 3	GCOVA1522AWSA	J	AK	Cover,Cassette [Tape 2]
201- 4	GDORF0127AWSA	J	AE	Holder,Cassette [Tape 1]
201- 5	GDORF0128AWSA	J	AE	Holder,Cassette [Tape 2]
201- 6	HDECQ1108AWSA	J	AE	Panel,Cassette [Tape 1]
201- 7	HDECQ1109AWSA	J	AE	Panel,Cassette [Tape 2]
201- 8	JKNBZ0982AWSA	J	AE	Button,Disc Number
201- 9	MLIF-A001AWZZ	J	AD	Damper
201-10	JKNBZA023AWSD	J	AM	Button,Operation A
201-11	JKNBZA024AWSD	J	AM	Button,Operation B
201-12	JKNBZ0985AWSA	J	AE	Button,Function
201-13	JKNBZ0986AWSA	J	AE	Button,Memory
201-14	JKNBZ0987AWSA	J	AE	Button,Tuning
201-15	JKNBZ0991AWSA	J	AF	Button,Power
201-16	GCOVA1533AWSA	J	AC	Cover,Timer
201-17	HBDGB1007AWSA	J	AD	Badge,SHARP
201-18	MSPRDA002AWFJ	J	AB	Spring,Cassette [Tape 1]
201-19	MSPRDA003AWFJ	J	AB	Spring,Cassette [Tape 2]
201-20	HDECQA039AWSA	J	AH	Volume Knob Ring,A
201-21	HDECQ1106AWSA	J	AF	Volume Knob Ring,B
201-22	HDECQA053AWSA	J	AK	Decoration Plate,Amp.
201-23	MLOKC0014AWZZ	J	AC	Lock,Cassette [Tape 1]
201-24	MLOKC0015AWZZ	J	AC	Lock,Cassette [Tape 2]
201-25	MSPRD0196AWFJ	J	AB	Spring,Cassette Lock [Tape 1]
201-26	MSPRD0197AWFJ	J	AC	Spring,Cassette Lock [Tape 2]
201-27	JKNBZA058AWSA	J	AH	Button,MP3 Navigation,A
201-28	JKNBZ0989AWSA	J	AE	Button,MP3 Navigation,B
202	GCAB-3101AWSA	J	AY	Cabinet,Top/Side
203	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	GITARA112AWSA	J	AK	Rear Panel,B
205	GCOVA1520AWSA	J	AG	Cover,CD Tray
206	LCHSZ0025AWZZ	J	AM	Chassis,Changer
207	PSLDMA009AWFW	J	AG	Shield,Dust Cover
208	92LNBAND1318A	J	AA	Nylon Band,80mm
209	KMECBA001AWZZ	J	BC	Tape Mechanism Ass'y
210	HDECQ1110AWSA	J	AF	Panel,Edge Light
212	QCNWN1860AWZZ	J	AC	Lug Wire
213	JKNBK0103AWSA	J	AD	Knob,Volume
214	HDECQ1104AWSA	J	AL	Cover,Volume Knob
216	92LCSPR1431C	J	AA	Spring,Ring
217	LCHSM0201AWFW	J	AR	Chassis,Main
218	GITAR1273AWSA	J	AP	Rear Panel,A
219	LBND-1011AWZZ	J	AA	Nylon Band
⚠ 220	QACCD0022AWZZ	J	AM	AC Power Supply Cord
221	LBSHC0005AWZZ	J	AD	Bushing,AC Power Supply Cord
222	NFANP0001AWZZ	J	AD	Rotary Fan
223	LANGK0437AWFW	J	AE	Bracket,Fan Support A
⚠ 224	QFSHD0001AWZZ	J	AB	Holder,Fuse
225	PRDAR0320AWFW	J	AV	Heat Sink
226	LHLDZ9024AWZZ	J	AD	Holder,Edge Light
227	LANGT0042AWFW	J	AC	Bracket,PWB Support
228	PSHEPA010AWZZ	J	AE	Shield Sheet,Main PWB
229	LHLDZA004AWZZ	J	AC	Holder,Rib Support
230	LANGK0435AWFW	J	AF	Bracket,Heat Sink Support
231	PFLT-A006AWZZ	J	AB	Felt
601	XJBSD30P10000	J	AA	Screw,ø3×10mm
602	XEBSD30P10000	J	AA	Screw,ø3×10mm
603	LX-EZ0005AWFD	J	AA	Screw,ø2.6×10mm
604	XEBSD26P10000	J	AA	Screw,ø2.6×10mm
605	XESSD30P10000	J	AA	Screw,ø3×10mm
606	XJSSD30P08000	J	AA	Screw,ø3×8mm
607	LX-EZ0010AWFD	J	AA	Screw,Special
609	XBBSD20P04000	J	AA	Screw,ø2×4mm
610	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
611	LX-LZA002AWZZ	J	AD	Push Rivet
612	LX-LZ0002AW00	J	AC	Snap Rivet
613	LX-JZ0037AWFD	J	AB	Screw,ø3×18mm
614	LX-JZ0044AWFF	J	AB	Screw,ø3×10mm
615	XWHSD32-10080	J	AA	Washer,ø3.2×ø8×1mm
616	XHBSD30P06000	J	AA	Screw,ø3×6mm
618	LX-JZ0036AWFD	J	AB	Screw,Special

ACCESSORIES/PACKING PARTS

	QANTL0005AWZZ	J	AG	AM Loop Antenna
	SPAKAA010AWZZ	J	AL	Packing Add.,Left/Right
	SPAKAA013AWZZ	J	AM	Packing Add.,Top/Bottom
	SPAKCA101AWZZ	J		Packing Case
	SPAKP0032AWZZ	J	AF	Polyethylene Bag,Unit
	SPAKZA007AWZZ	J	AH	Spacer
	SPAKZA010AWZZ	J	AF	Sheet,Protection
	SPAKZA050AWZZ	J	AE	Pad,Support
	SSAKH0053AWZZ	J	AC	Polyethylene Bag,Speaker
	TINSEA045AWZZ	J	AG	Operation Manual
	TLABZA113AWSA	J	AB	Energy Star Label (Set)
	TLABZA100AWZZ	J		Label,Feature
	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
	92LFANT1746A	J	AD	FM Antenna
	RRMCG0395AWSA	J	AU	Remote Control
	GFTAT1017AWSA	J	AG	Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~3	92LPWB5736MANS	J	—	Main/Display/Spacer (Combined Ass'y)
⚠ PWB-B1,2	92LPWB5529PWRS	J	—	Power/Game Input (Combined Ass'y)
PWB-C	92LPWB5612CDUS	J	—	CD Servo
PWB-D(209-3)	————		—	Tape Mechanism
PWB-E	QPWBF1055AWZZ	J	AE	5-Changer Motor (PWB Only)
PWB-F	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)

OTHER SERVICE PARTS

	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

CP-MPS1000

SPEAKER BOX PARTS

901	GBOXLA009AWSB	J	BF	Speaker Box Ass'y,Left
902	GBOXRA009AWSB	J	BF	Speaker Box Ass'y,Right
903	CPNLSA005AW01	J	BD	Front Panel Ass'y,Left
904	CPNLSA006AW01	J	BD	Front Panel Ass'y,Right
905	HPNLSA007AWSA	J	AX	Side Panel,Left
906	HPNLSA008AWSA	J	AX	Side Panel,Right
907	TSPC-A128AWZZ	J		Label,Specifications
908	PFLT-0046AWZZ	J	AC	Felt
909	QCNWNA001AWZZ	J	AY	Speaker Cord Ass'y
910	XJBSD40P16000	J	AB	Screw,ø4×16mm
911	XJBSD30P12000	J	AA	Screw,ø3×12mm
912	XMPSF40P35000	J	AC	Screw,ø4×35mm
913	XMBSF40P16000	J	AC	Screw,ø4×16mm
914	PCUSG0147AWZZ	J	AC	Leg Cushion
915	PFLT-0079AWZZ	J	AC	Felt
SP1,2	RSP-ZA006AWZZ	J	BC	Woofer
SP3,4	RSP-ZA007AWZZ	J	AS	Tweeter
SP5,6	RSP-ZA008AWZZ	J	AS	Passive Radiator
SP7~10	LHLDZA006AWM1	J	AS	Super Tweeter Ass'y

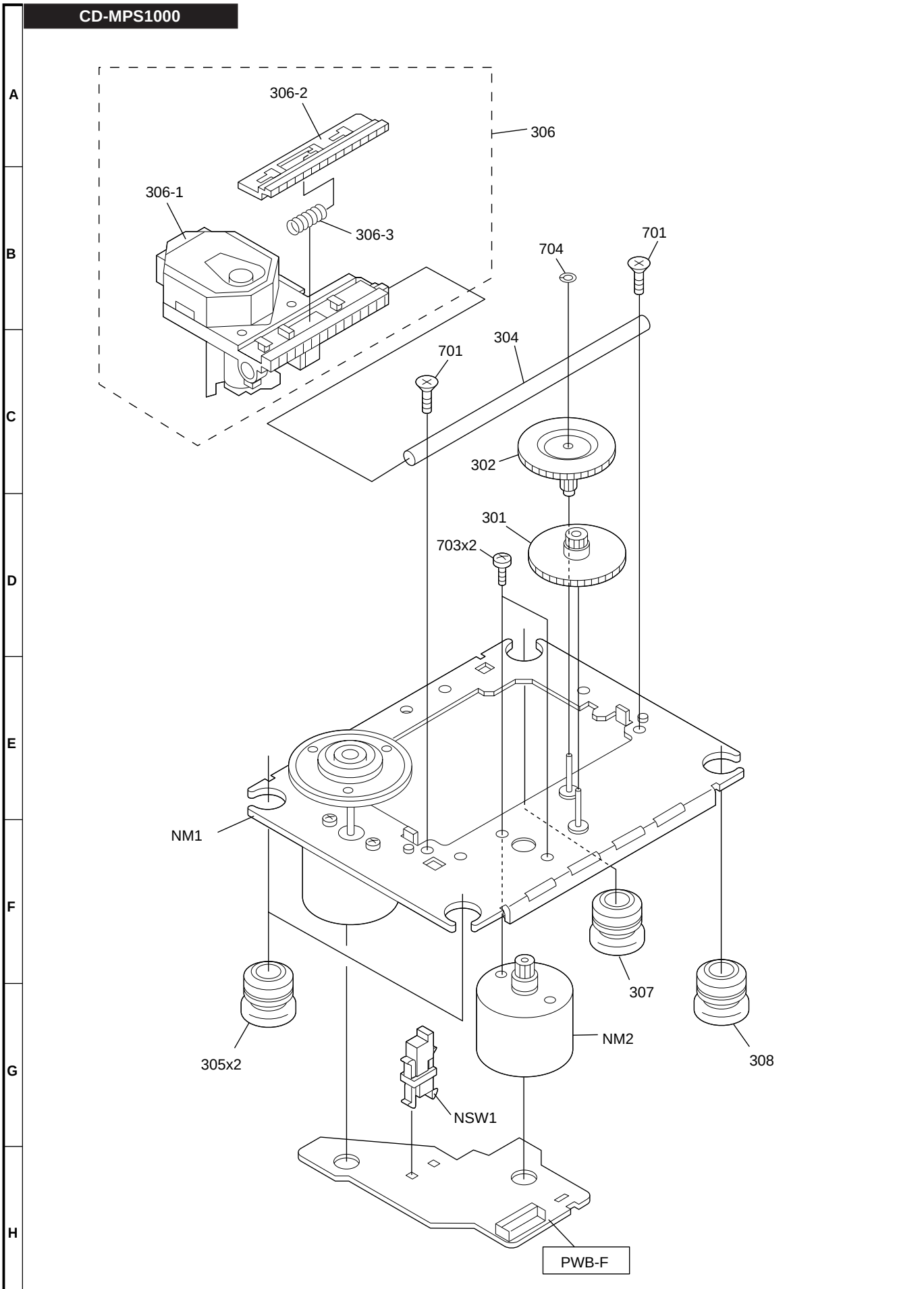

Figure 7 CD MECHANISM EXPLODED VIEW

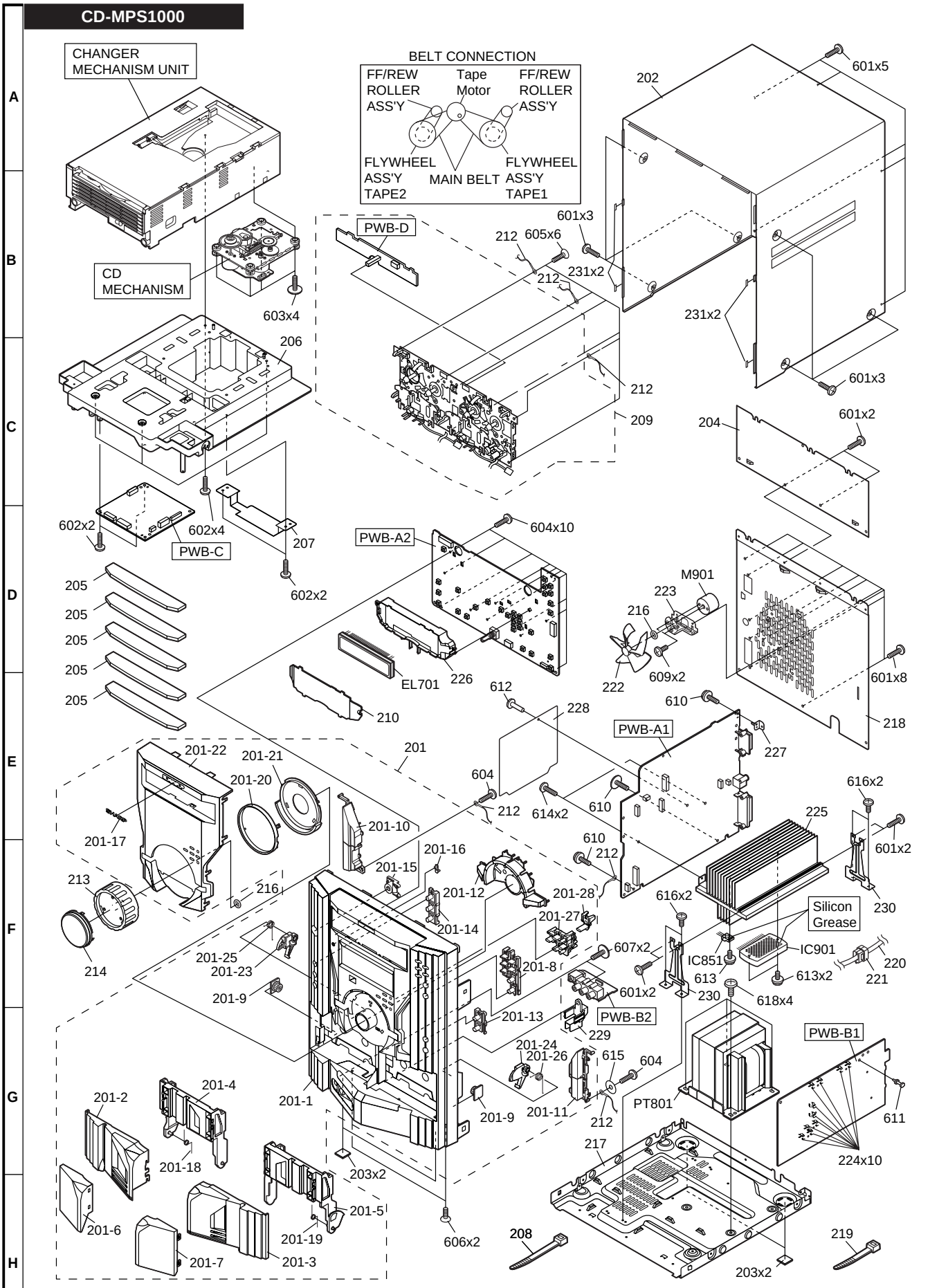

Figure 8 CABINET EXPLODED VIEW

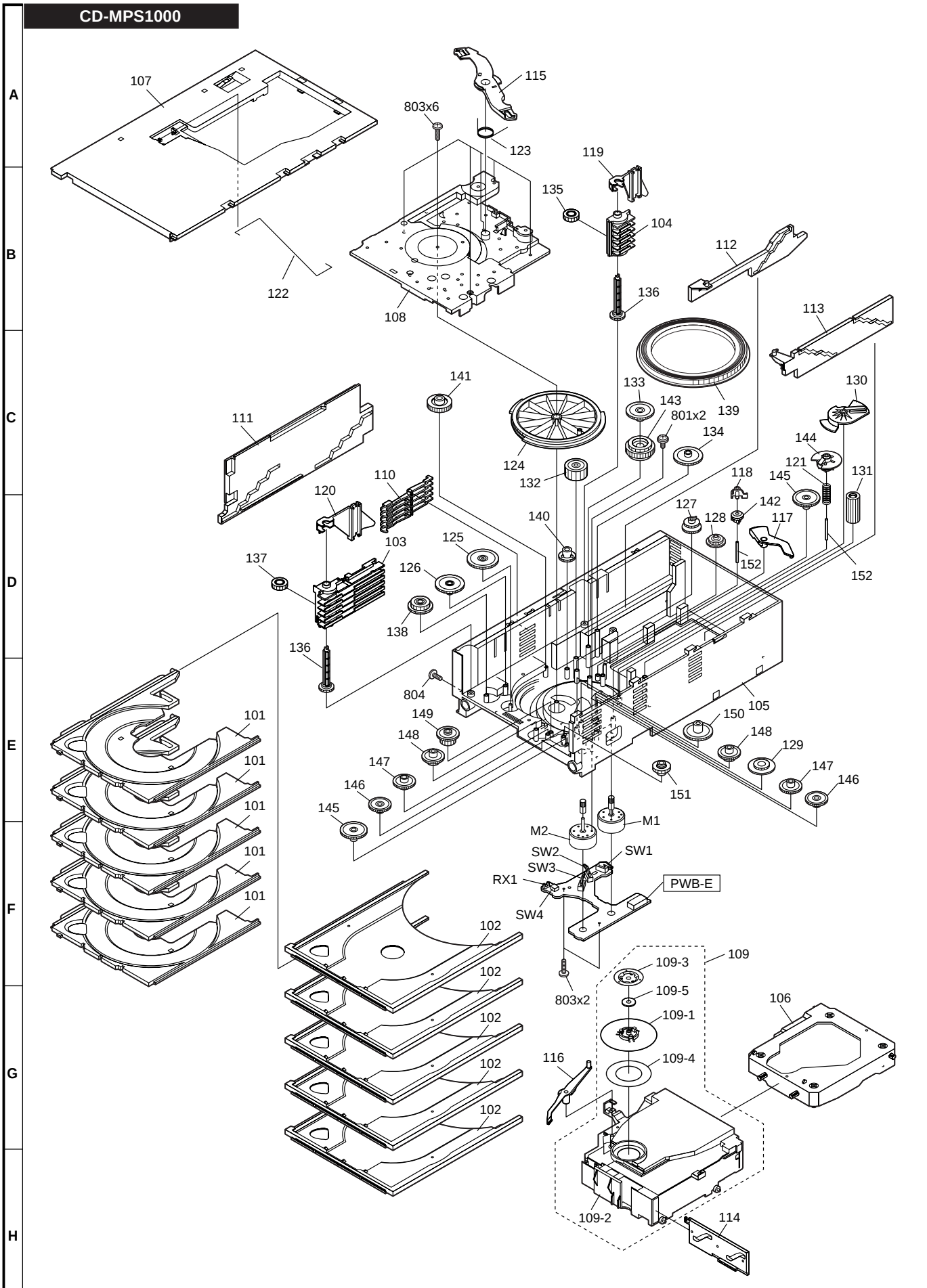

Figure 9 CHANGER MECHANISM EXPLODED VIEW

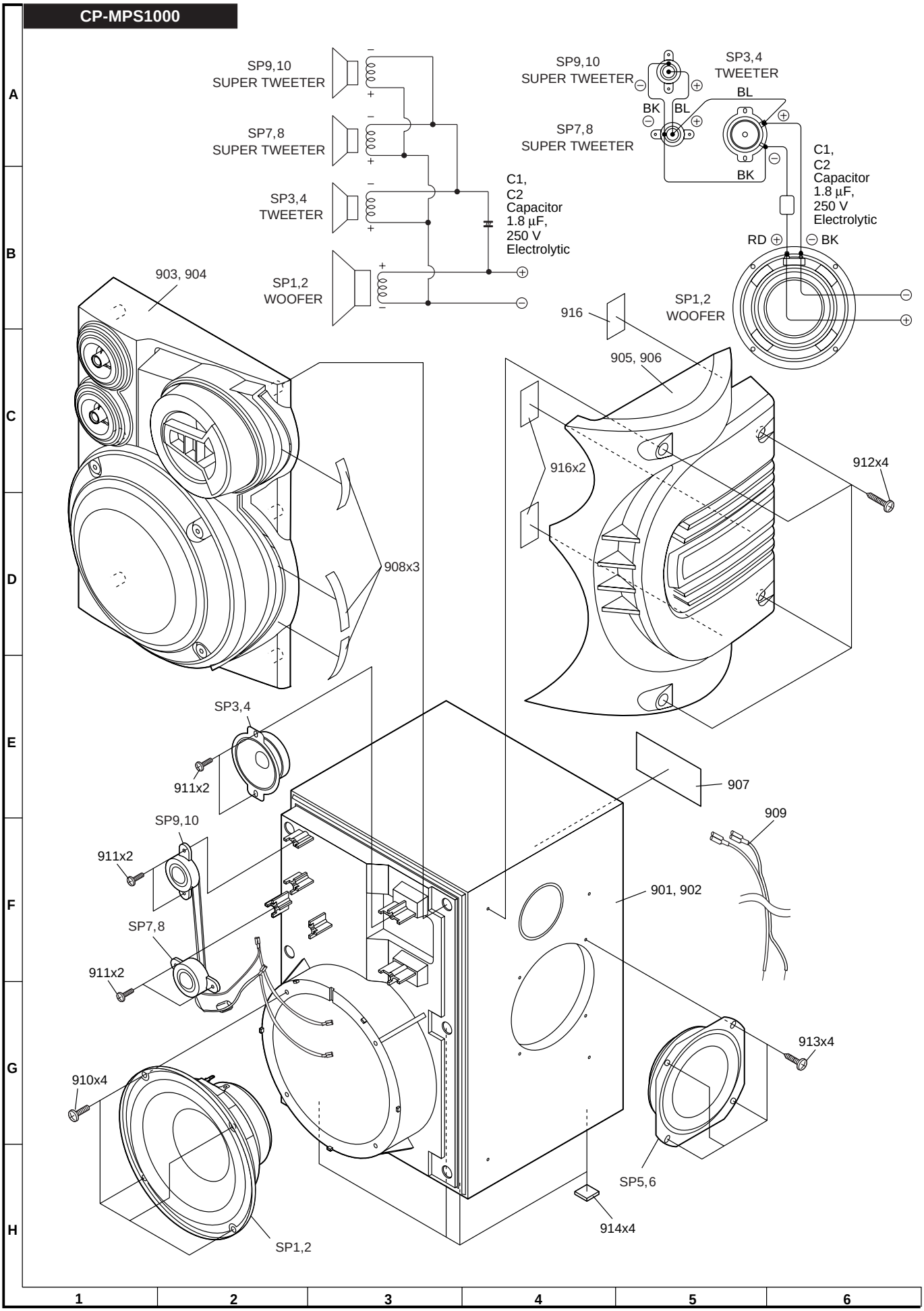

Figure 10 SPEAKER EXPLODED VIEW

SHARP

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