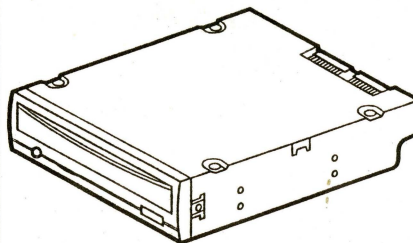


Service Manual



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CD-ROM DRIVE UNIT

DR-U104X

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	DR-U104X		
ZUC/WL	○	DC power supplied from other system component	

CONTENTS

CHAPTER 1

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1.2 SPECIFICATIONS	1-4
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1.4 DISASSEMBLY	1-5
1.5 ADJUSTMENTS	1-6
1.6 PARTS LIST FOR PACKING AND EXPLODED VIEWS	1-8

CHAPTER 2

2.1 PACKING AND EXPLODED VIEWS ...	2-3
2.2 SCHEMATIC AND PCB CONNECTION DIAGRAMS	2-7
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CHAPTER 1

1.1 SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

(FOR EUROPEAN MODEL ONLY)

VARO!
 AVATTAESSA JA SUOJALUKITUS
 OHITETTAESSA OLET ALTTIINA
 NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.
 ÄLÄ KATSO SÄTEESEEN.



LASER
 Kuva 1
 Lasersäteilyn
 varoitusmerkki

WARNING!
 DEVICE INCLUDES LASER DIODE WHICH
 EMITS INVISIBLE INFRARED RADIATION
 WHICH IS DANGEROUS TO EYES. THERE IS
 A WARNING SIGN ACCORDING TO PICTURE
 1 INSIDE THE DEVICE CLOSE TO THE LASER
 DIODE.



LASER
 Picture 1
 Warning sign for
 laser radiation

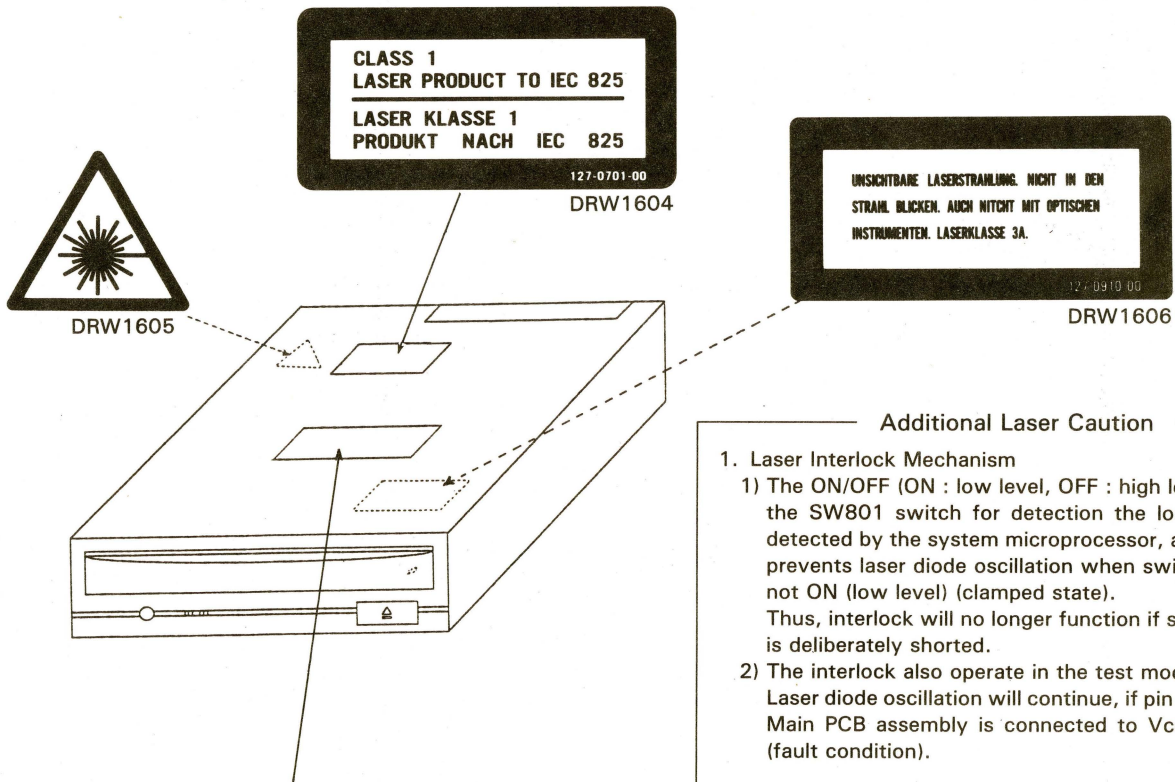
ADVERSEL:
 USYNLIG LASERSTRÅLING VED ÅBNING
 NÅR SIKKERHEDSAFBRYDERE ER UDE AF
 FUNKTION UNGDÅ UDSAETTELSE FOR
 STRÅLING.

IMPORTANT
 THIS PIONEER APPARATUS CONTAINS
 LASER OF CLASS 1.
 SERVICING OPERATION OF THE APPARATUS
 SHOULD BE DONE BY A SPECIALLY
 INSTRUCTED PERSON.

VARNING!
 OSYNLIG LASERSTRÅLNING NÅR DENNA
 DEL ÄR ÖPPNAD OCH SPÄRREN
 ÄR URKOPPLAD. BETRakta EJ STRÅLEN.

LASER DIODE CHARACTERISTICS
 MAXIMUM OUTPUT POWER: 5 mw
 WAVELENGTH: 780-785 nm

LABEL CHECK



WARNING

LEAD IN SOLDER USED IN THIS PRODUCT IS LISTED AS A KNOWN REPRODUCTIVE TOXICANT BY THE CALIFORNIA HEALTH AND WELFARE AGENCY. ALSO, CERTAIN ELECTRICAL PARTS MAY CONTAIN CHEMICALS LISTED AS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. (CALIFORNIA HEALTH & SAFETY CODE, SECTION 25249.5) FOLLOW MANUFACTURER'S SERVICE INSTRUCTIONS AND USE PROPER PRECAUTIONS.
 127-0718-00

DRW1617

Additional Laser Caution

1. Laser Interlock Mechanism
 - 1) The ON/OFF (ON : low level, OFF : high level) status of the SW801 switch for detection the loading state is detected by the system microprocessor, and design the prevents laser diode oscillation when switch SW801 is not ON (low level) (clamped state). Thus, interlock will no longer function if switch SW801 is deliberately shorted.
 - 2) The interlock also operate in the test mode*. Laser diode oscillation will continue, if pin 5 of IC302 on Main PCB assembly is connected to Vcc+5V (Pin 8) (fault condition).
2. When the cover is opened with the servo mechanism block removed to be turned over, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

* Refer to page 1-6.

1.2 SPECIFICATIONS

[General performance]

Readable formats (only 12 cm discs)	CD-DA CD-ROM Mode 1 CD-ROM XA Mode 2 (form 1 & form 2)
Transfer rate	
Sustained	614 k bytes/sec (quadruple speed) 150 k bytes/sec (uniform speed)
Burst	2.5 M bytes/sec (asynchronous) 4.0 M bytes/sec (synchronous)
Data quantity (per block)	
User data/block	2048 bytes (Mode 1) 2336 bytes (Mode 2)
Access time	
Random access (mean value)	220 msec (quadruple speed)
Data buffer capacity	256 k bytes

[Audio output part]

Line	1.0 V \pm 0.2 V (10 k Ω load)
------	--

[Accessories]

Disc caddy	1
Jumpers	3
Operating instructions	1

[Others]

Power supply	DC +12V, 2000 mA (Including in-rush current) DC +5V, 650 mA (Including in-rush current)
--------------	--

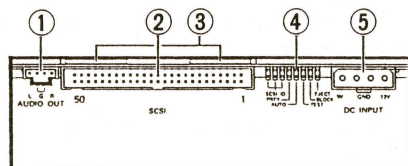
External dimensions (except for the front panel)	146 (width) \times 41.3 (height) \times 202 (depth) mm 5-3/4 (W) \times 1-5/8 (H) \times 7-15/16 (D) in
Weight	1.25 kg (2 lbs 12 oz)
Operation temperature	+5°C to +40°C (+41°F to +104°F)
Operation humidity	5% to 90% (no condensation)
Storage temperature	-40°C to +60°C (-40°F to +140°F)
Storage humidity	5% to 95% (no condensation)

NOTE:

Specifications and design subject to possible modification without notice due to improvements.

1.3 PANEL FACILITIES

REAR PANEL



① Audio output connector (AUDIO OUT)

Outputs the stereo analog signal. Connect to a sound board or audio amp, using a designated connector.

② SCSI connector

Connect to an SCSI host adapter board, using a 50-pin flat ribbon SCSI cable.

③ Terminator block

Terminator resistance block for the SCSI bus. Remove when the terminator is turned OFF.

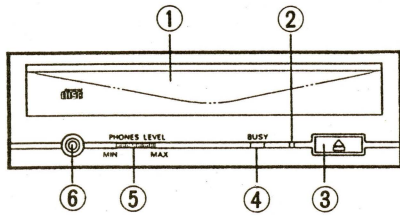
④ Jumper pin switch

Insert into the attached short-circuit socket and set the SCSI ID number, parity, autofunction, block size, and eject-disabled function.

⑤ Power connector (DC INPUT)

Connect to DC +5V and DC +12V power sources.

FRONT PANEL



① Front door/Caddy slot

Open the door and insert the disc caddy.

② Emergency eject hole

If the eject button does not function, the caddy can be removed by inserting and pushing a hard cylindrical object into this hole. Turn the power OFF before doing this.

③ Eject button

Press this button to remove the disc caddy.

④ BUSY indicator

Lights up for about 2 seconds when the power is turned ON. Flashes orange during disc access and is extinguished at all other times.

⑤ PHONES LEVEL control

Adjusts the headphone terminal audio volume. The output level of the rear panel audio output terminals cannot be adjusted.

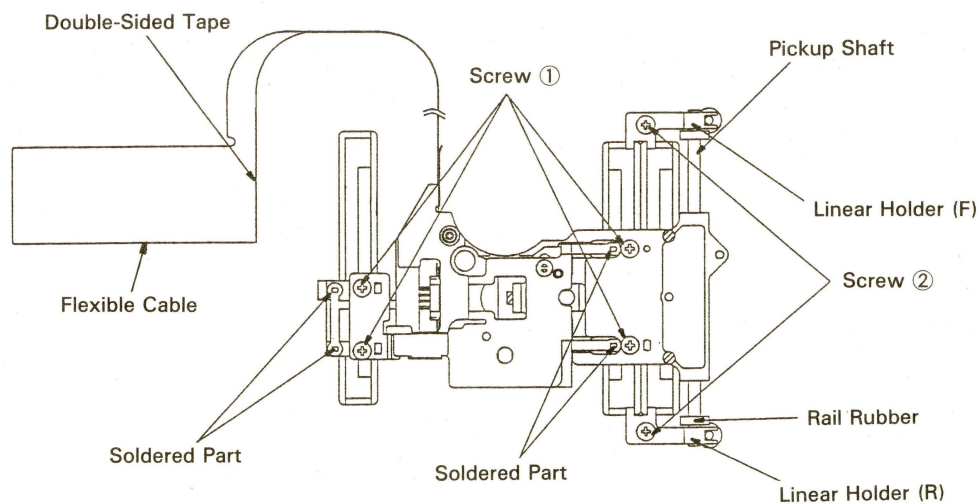
⑥ Headphones jack

Stereo mini-jack for connecting headphones.

1.4 DISASSEMBLY

■ P.U. ASSY

1. Remove the mechanism assy from the unit and turn it around so the bottom is facing you. Peel off the flexible cable that is attached to the mechanism assy with the double-sided tape.
2. After removing the 4 soldered parts, remove the 4 screws ①.
3. By removing the 2 screws ② holding the linear holder (F) and the linear holder (R), the P.U. assy can be removed from each pickup shaft. Then, after removing one side of the rail rubber and pulling out the pickup shaft, only the P.U. assy will be left.



Mechanism Assy Bottom View

Note: When pulling the pickup out of the shaft or inserting it into the shaft, be careful not to scratch the inner surface of the oilyless metal bearing. Also, make sure the bearing does not get dirty.

1.5 ADJUSTMENTS

- This unit cannot be adjusted unless the commander is used for making adjustments.

(1). COMMANDER

Since there are no connectors on the P.C. Board for installing the commander, install "Nichitsu" PH connectors (10P, 15P, 2mm pitch) on CN204 and CN205 on the P.C. Board or take lead wires from CN204 and CN205 and connect them to the commander.

For details on using the commander, refer to "(3). COMMANDER FUNCTIONS."

For normal speed play only, simple operation without the commander is possible by using the player mode described in the Operating Instructions. (Refer to the section on Music CD Playback.)

(2). LD SHORT CIRCUIT TERMINAL FOR PROTECTING THE LASER DIODE

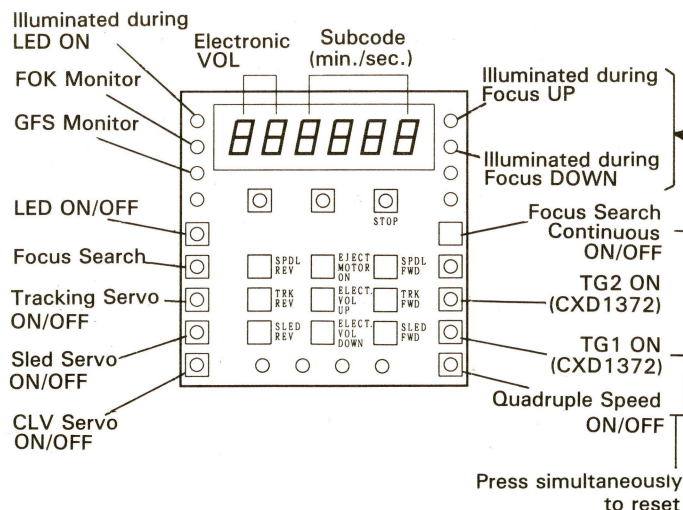
When removing the flexible wire from the P.C. Board or removing the pickup or performing other similar operations, always carry out an LD short beforehand.

First, turn off the power when the pickup is at its outermost position. Turn the set upside down. You will see the pickup P.C. Board LD short circuit terminal through the hole in the bottom panel. Short here using solder.

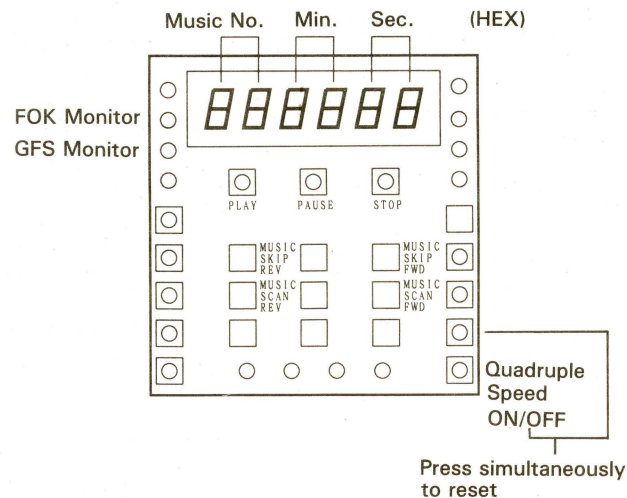
After adjustments have been completed, make sure you remove the solder.

(3). COMMANDER FUNCTIONS

(3) - 1. Commander Functions (test mode "6") when pin setting switch on the product (DR-U104X) is in test mode ("6": ON)

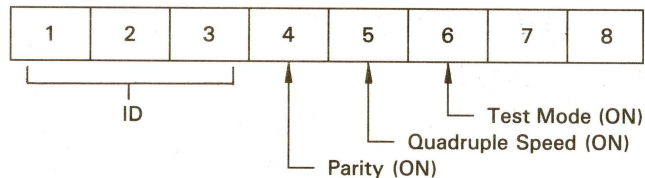


(3) - 2. Player Mode (test mode OFF)



(4). PIN SETTING SWITCH ON THE PRODUCT (Short: ON)

Rear View



During Test Mode:

ID=2 : 0min. 2sec. ↔ 20min. 2sec. search repeated

ID=3 : 0min. 2sec. ↔ Readout time search repeated

ID=6 : Operating mode according to above-mentioned +/- switches

ID=4 : Random seek

Quadruple speed OFF (performed at normal speed by removing short pin)

(5). ADJUSTMENTS

1. Sled Offset Adjustment

Adjust the VR103 (SLD OFFSET) so that the DC voltage between TP120 and TP121 to DC $0V \pm 0.25V$.

2. Tracking Balance Adjustment

Adjust the VR301 (TE BAL) so that the center of the waveform of the tracking error signal (TP304) when the tracking is OFF is aligned with the center of the waveform of the tracking error signal when the tracking is ON.

3. FE Bias Adjustment

Adjust the VR302 (FE. BIAS) so that the jitter meter to its smallest value.

4. Tracking Gain Adjustment

Waveform measurement points: TP107 (TE IN)
TP109 (TE2)

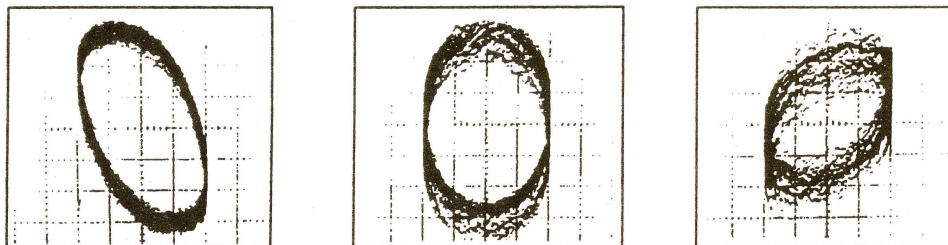
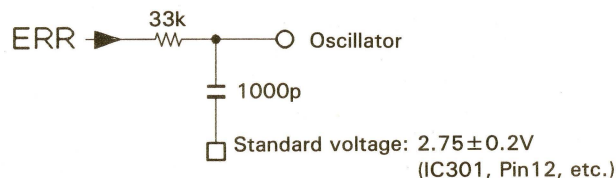
Input 1.4kHz, 100mV to the above measurement points and adjust VR101 so that the Lissajous waveform is symmetrical about the X axis and Y axis. (refer to Fig. 1)

5. Focus Gain Adjustment

Waveform measurement points: TP110 (FE IN)
TP138 (FE)

Input 1.1kHz, 100mV to the above measurement points and adjust VR102 so that the Lissajous waveform is symmetrical about the X axis and Y axis. (refer to Fig. 1)

For the gain adjustments in 4. Tracking Gain and 5. Focus Gain, TRK ERR and FCS ERR waveform measurements are made through a filter, as shown in the diagram below.



Higher Gain

Optimum Gain

Lower Gain

Fig. 1 Lissajous Waveform

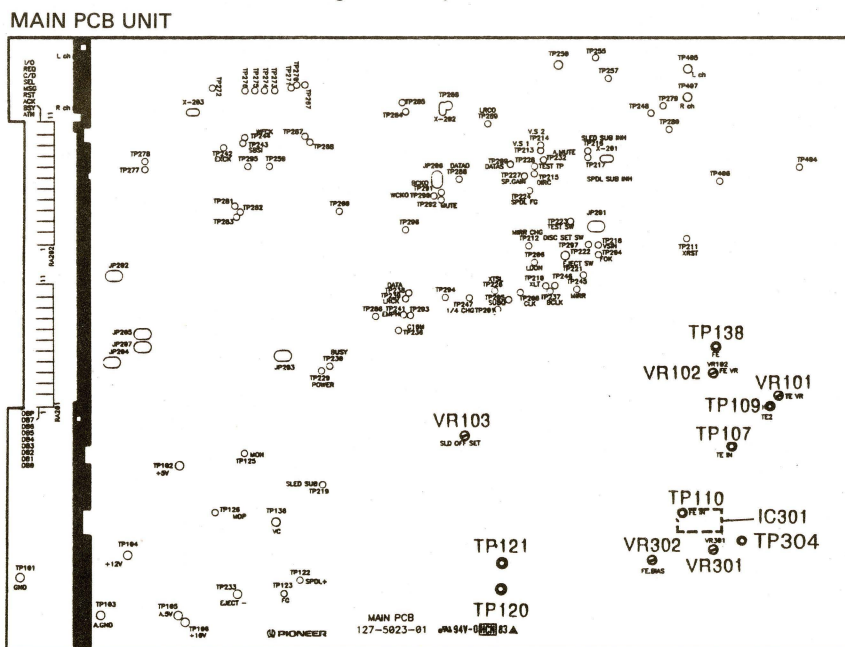


Fig. 2 Adjustment and Measurement points

1.6 PARTS LIST FOR PACKING AND EXPLODED VIEWS

NOTES :

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

(1). PACKING

Mark	No.	Description	Parts No.
	1	BAG	DHL1096
	2	SOCKET	DKX1007
	3	OPERATING INSTRUCTIONS (English, French, German, Japanese)	DRC1013
NSP	4	CD CADDY	DXA1728
	5	CUSHION R	DHA1309
	6	CUSHION L	DHA1310
	7	PACKING CASE	DHG1610
	8	ACCESSORY CASE	DHG1611
	9	POLY BAG	DHL1094
	10	POLY BAG	DHL1095

(2) - 2. Mechanism Assy

Mark	No.	Description	Parts No.
	1	REFLECTOR PCB UNIT	DWX1555
	2	RELEASE SPRING	DBH1263
	3	PICK LOCK SPRING	DBH1264
	4	RELEASE LEVER SPRING	DBH1265
	5	DAMPER V	DEB1297
	6	RAIL RUBBER	DEB1299
	7	PICKUP SHAFT	DLA1639
	8	PICKUP SHAFT	DLA1640
	9	LINEAR HOLDER F	DNF1490
	10	LINEAR HOLDER R	DNF1491
	11	HEAT SINK	DNG1058
	12	PICK LOCK PLATE	DNH1951
	13	SENSOR I YOKE	DNH1953
	14	LINEAR I YOKE	DNH1954
	15	PULL PLATE	DNH1955

(2). CD-ROM DRIVE UNIT (DZW1015)

(2) - 1. Exterior

Mark	No.	Description	Parts No.
	1	HEADPHONE AMP PCB UNIT	DWX1556
	2	MAIN PCB UNIT	DWG1456
	3	SCREW	DBA1080
	4	FLOATING SPRING	DBH1267
	5	CUSHION (LOWER)	DEB1295
	6	CUSHION (UPPER)	DEB1296
	7	DAMPER H	DEB1298
	8	DUST COVER	DEC1806
	9	COVER PLATE	DNA1169
	10	BOTTOM CASE	DNA1170
	11	FRONT VESSEL ASSY	DXA1717
	12	LASER IEC LABEL	DRW1604
	13	SCREW	BSZ26P050FMC
	14	EPROM (IC205)	DYW1373
NSP	15	CD-ROM DRIVE UNIT	DZW1015
	16	TERMINATER RESISTOR	DCP1072
	17	TOXICANT LABEL	DRW1617

	16	LOCK RELEASE LEVER	DNK3007
	17	SLIDE STOPPER	DNK3008
	18	SENSOR YOKE HOLDER F	DNK3022
	19	SENSOR YOKE HOLDER R	DNK3023
	20	MECHA CHASSIS ASSY	DXA1716
	21	SLIDE PLATE ASSY	DXA1719
	22	SHUTTER ARM PLATE ASSY	DXA1720
	23	GEAR PLATE FULL ASSY	DXA1721
	24	SPINDLE MOTOR	DXM1070
	25	LINEAR COIL ASSY	DXP1032
	26	SENSOR COIL ASSY	DXP1033
	27	SENSOR SIDE YOKE ASSY	DXP1034
	28	LINEAR SIDE YOKE ASSY	DXP1035
	29	LASER IEC LABEL	DRW1605
	30	LASER IEC LABEL	DRW1606
	31	LINEAR M LABEL	DRW1607
	32	PICKUP ASSY - S	DXX2224
	33	SCREW	PMZ20P030FMC
	34	SCREW	BSZ26P050FMC
	35	SCREW	JBZ20P030FZK
	36	SCREW	BSZ26P040FMC

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CD-ROM DRIVE UNIT

DR-U104X

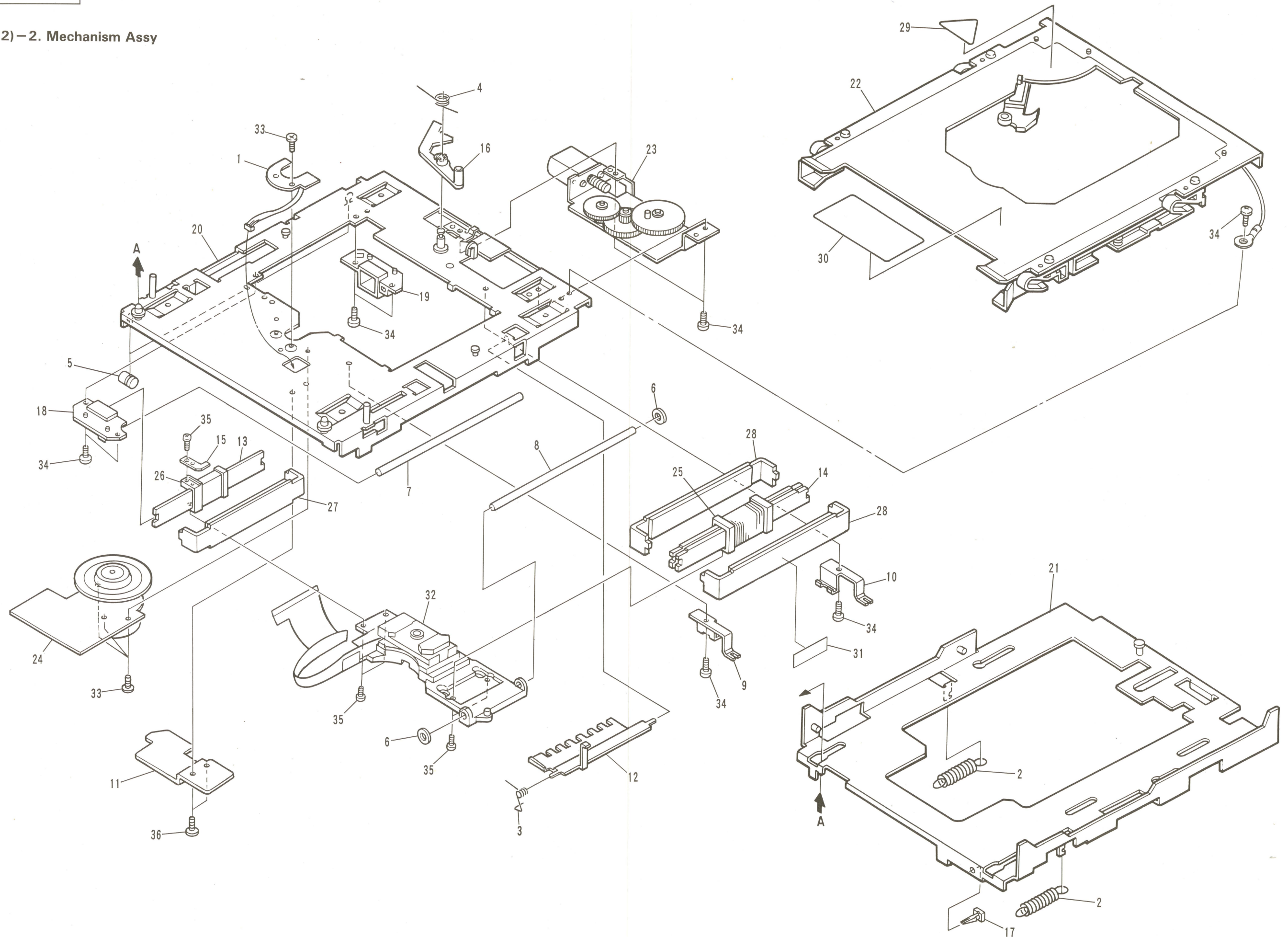
CHAPTER 2

CONTENTS

CHAPTER 2

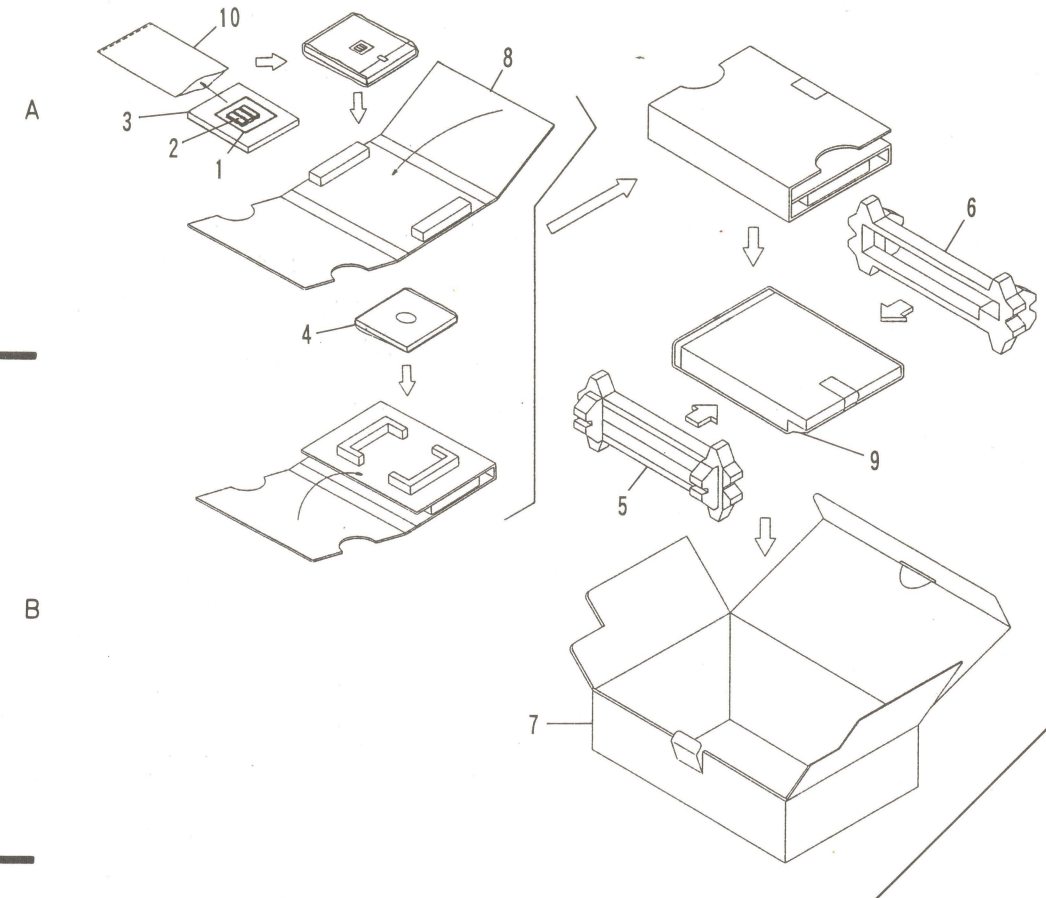
2.1 PACKING AND EXPLODED VIEWS ...	2-3
2.2 SCHEMATIC AND PCB CONNECTION DIAGRAMS	2-7
2.3 BLOCK DIAGRAM	2-25

(2)-2. Mechanism Assy



2.1 PACKING AND EXPLODED VIEWS

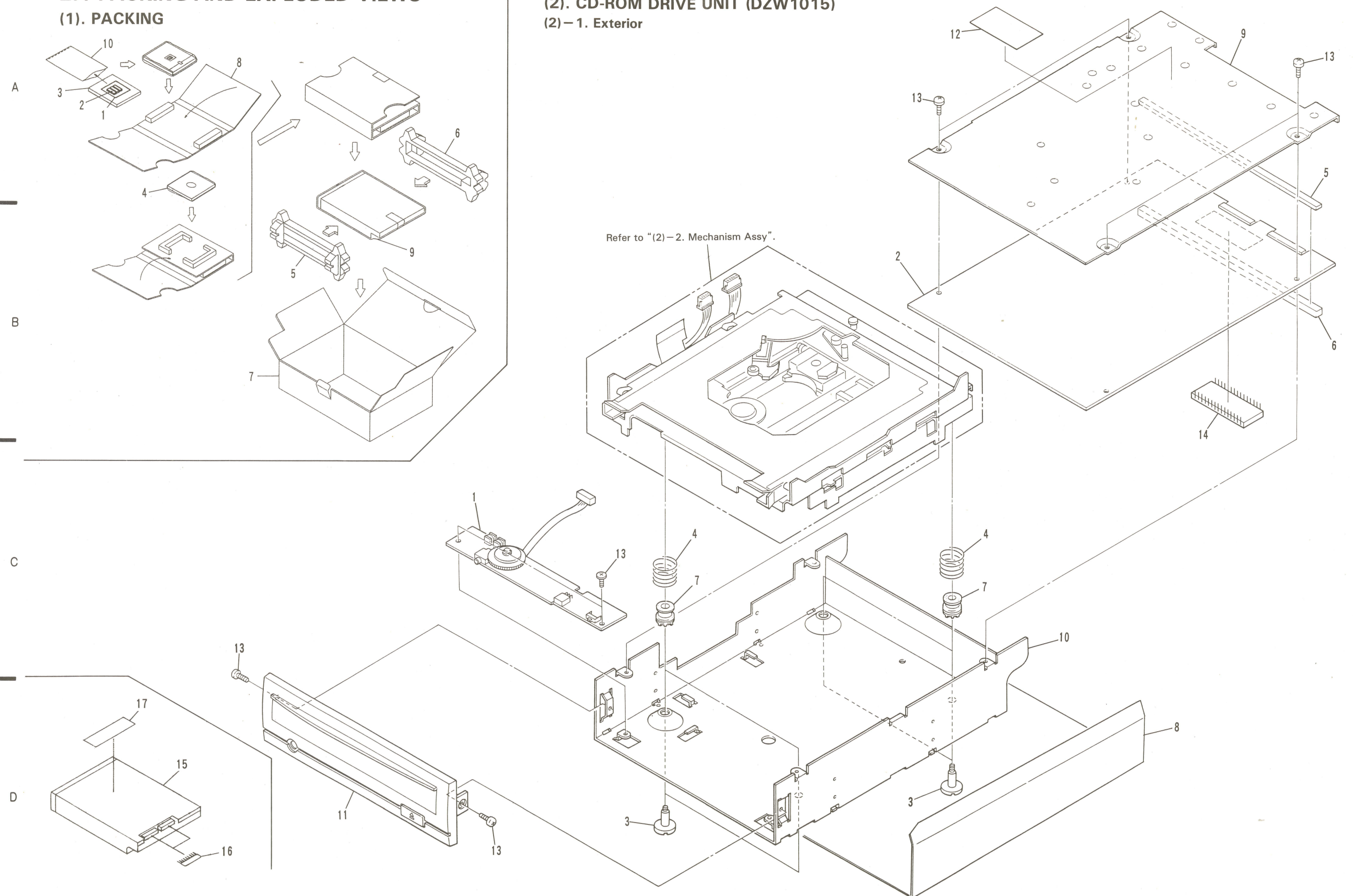
(1). PACKING



(2). CD-ROM DRIVE UNIT (DZW1015)

(2)-1. Exterior

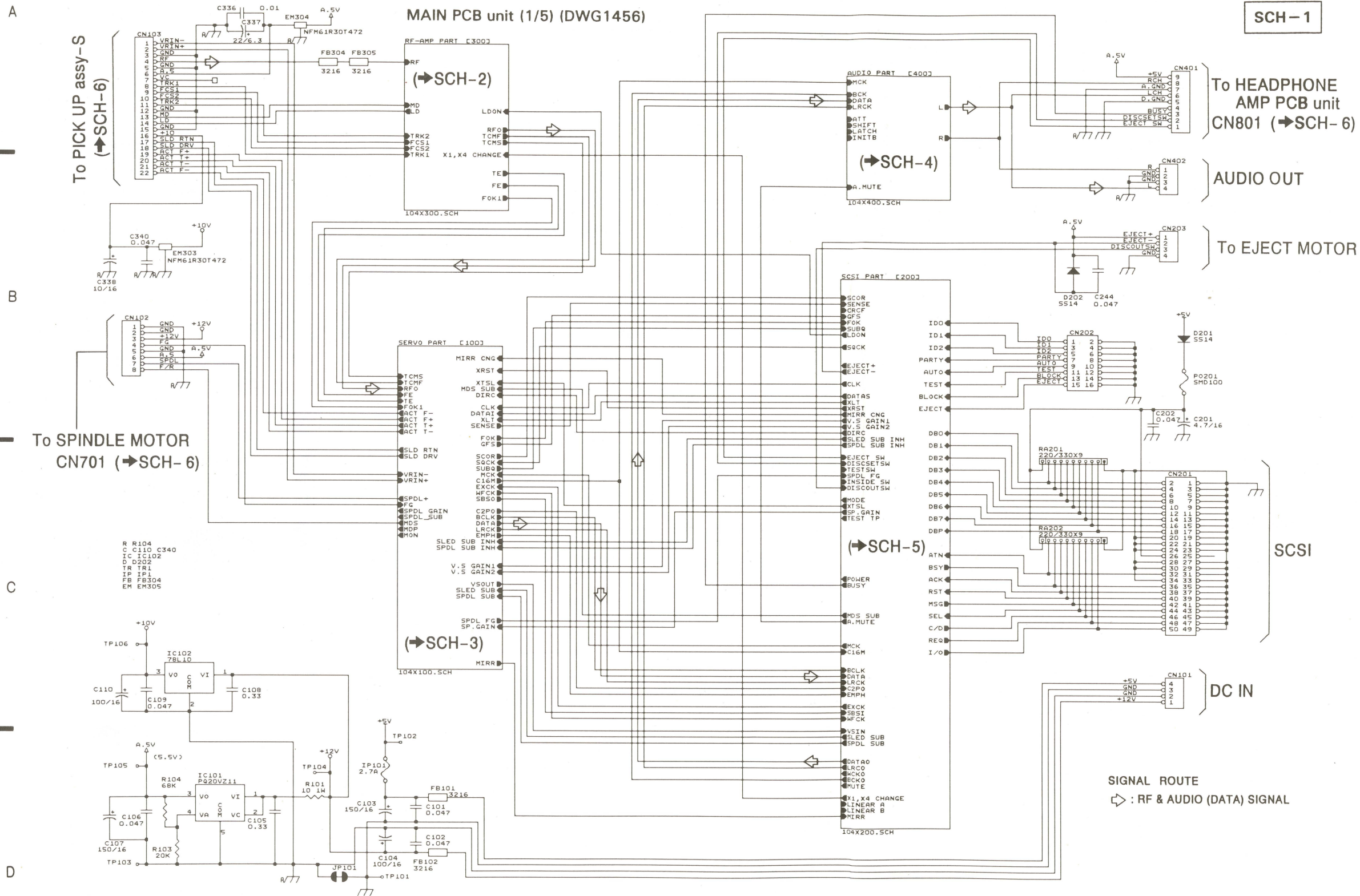
Refer to "(2)-2. Mechanism Assy".



2.2 SCHEMATIC AND PCB CONNECTION DIAGRAMS

(1). MAIN PCB UNIT

● MAIN PCB UNIT (1/5)



NOTE FOR SCHEMATIC DIAGRAMS (Type 4A)

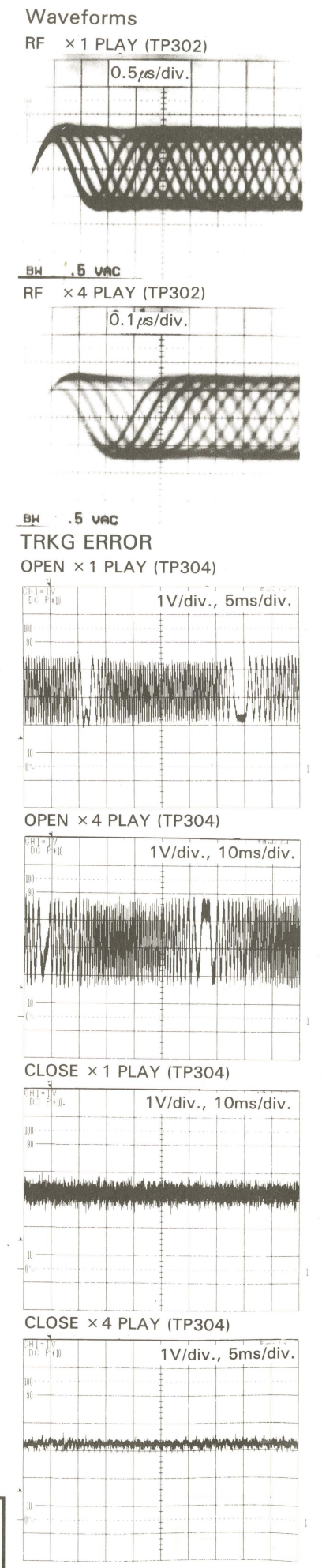
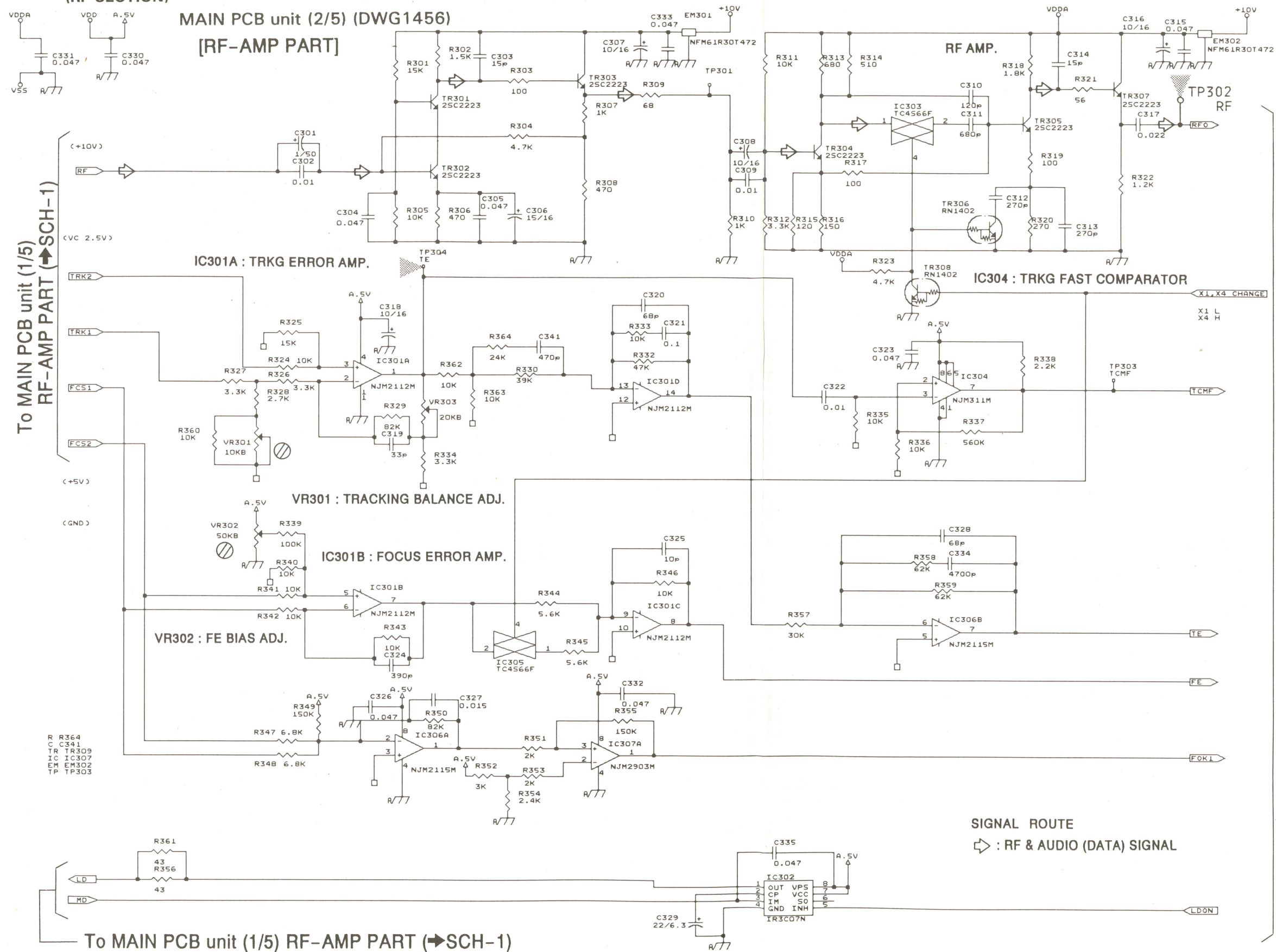
1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".
2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.
3. RESISTORS:
Unit: k: Ω , M: $M\Omega$, or Ω unless otherwise noted.
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$, (M): $\pm 20\%$ or $\pm 5\%$ unless otherwise noted.
4. CAPACITORS:
Unit: p: pF or μF unless otherwise noted.
Ratings: capacitor (μF)/voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.
5. COILS:
Unit: m: mH or μH unless otherwise noted.
6. VOLTAGE AND CURRENT:
 \square or $- V$: DC voltage (V) in PLAY mode unless otherwise noted.
 \square or $- mA$: DC current in PLAY mode unless otherwise noted.
Value in () is DC current in STOP mode.
7. OTHERS:
 \odot or \bullet : Adjusting point.
 \bullet : Measurement point.
 Δ : The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. SCH- \square ON THE SCHEMATIC DIAGRAM:
 \bullet SCH- \square indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)
9. SWITCHES (Underline indicates switch position):

HEADPHONE AMP PCB unit
SW801 DISCSET SW
SW802 EJECT SW

● MAIN PCB UNIT (2/5)
(RF SECTION)

MAIN PCB unit (2/5) (DWG1456)
[RF-AMP PART]

SCH-2



SCH-2 MAIN PCB UNIT (2/5)
(RF SECTION)

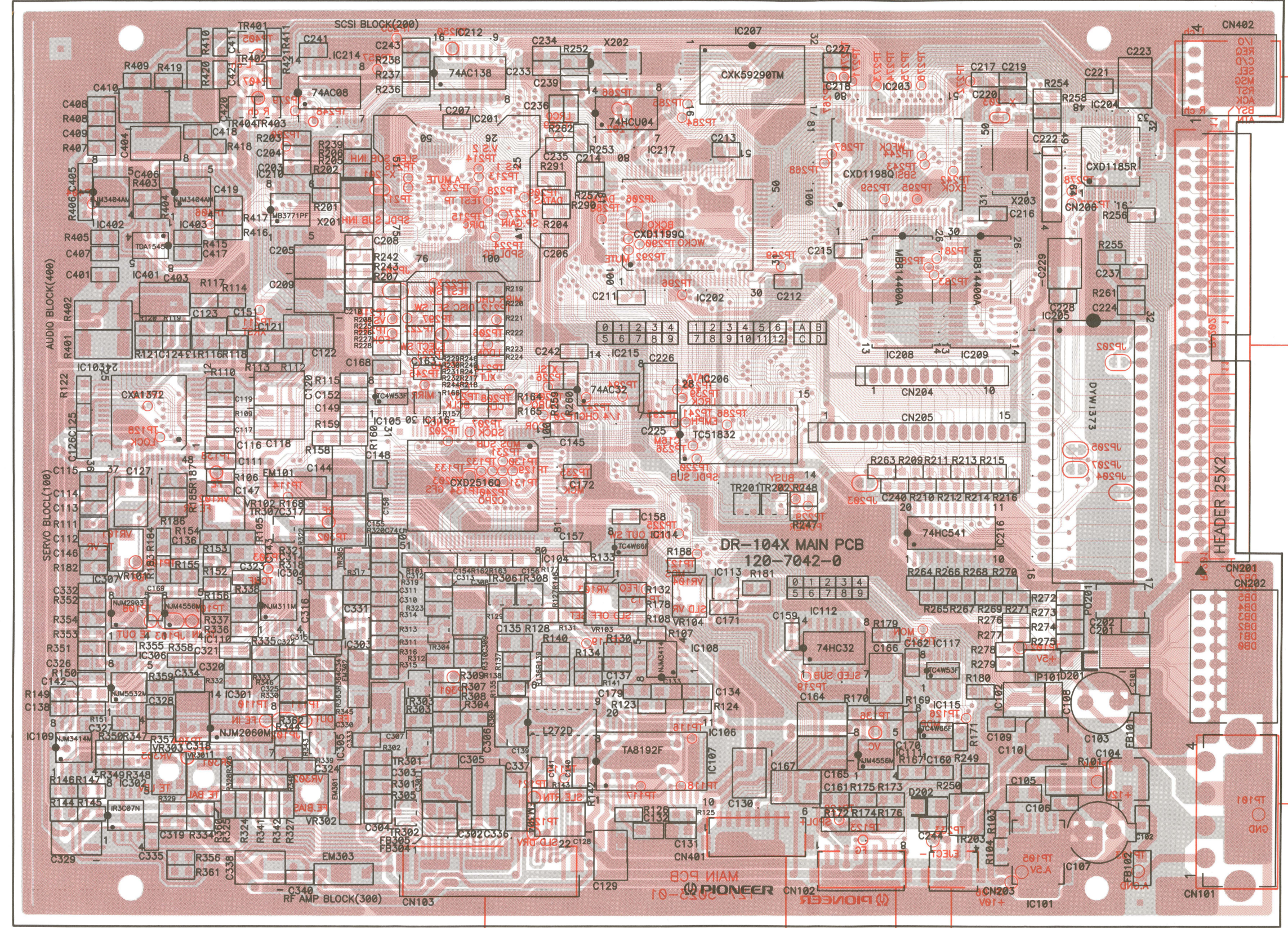
MAIN PCB UNIT (2/5)
(RF SECTION) SCH-2

IC401-IC403 TR401-TR404 IC210 IC214 IC212 IC201 IC217 IC202 IC207 IC203 IC204
 IC103 IC105 IC116 IC215 IC202 IC206 IC208 IC209 IC205
 IC307 IC306 IC110 IC304 TR307 TR305 IC303 IC104 TR306 TR308 IC114 IC108 IC113 TR201 TR202 IC112 IC117 IC216
 IC109 IC302 IC301 IC305 TR301-TR304 IC107 IC111 IC115 TR203 IC102 IC101
 VR101 VR303 VR301 VR102 VR302 VR103 VR104

MAIN PCB unit

- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

A
B
C
D



AUDIO OUT

SCSI

DC IN

To PU assy

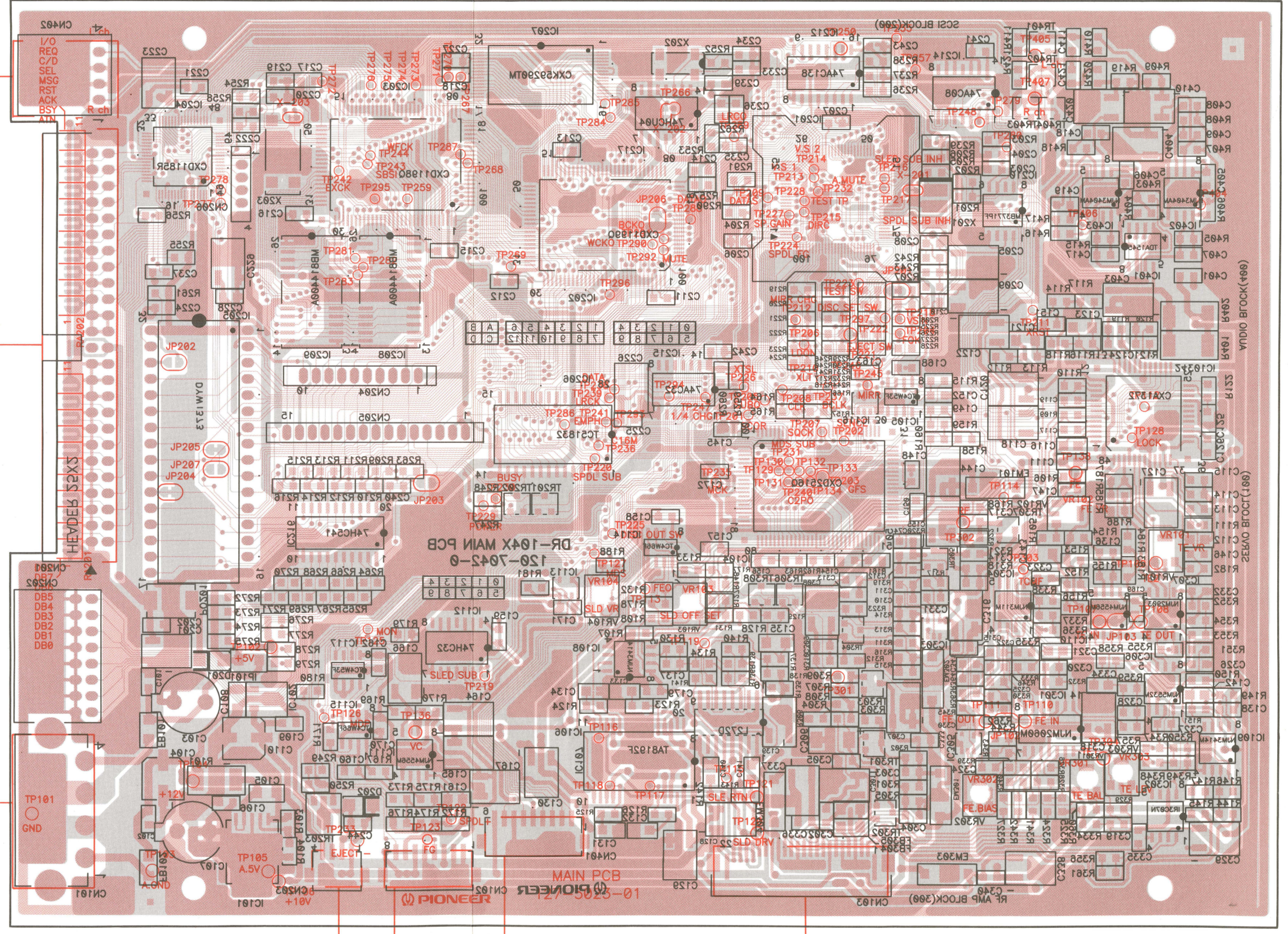
To HEADPHONE AMP PCB unit CN801

To EJECT MOTOR

To SPINDLE MOTOR CN701

PCB-1

- This diagram is viewed from the gray colored foil side.
- This PCB is double side.



AUDIO OUT

SCSI

DC IN

To SPINDLE MOTOR CN201
To ELECT MOTOR

To HEADPHONE AMP PCB unit CN801
To PU Assy

A
B
C
D

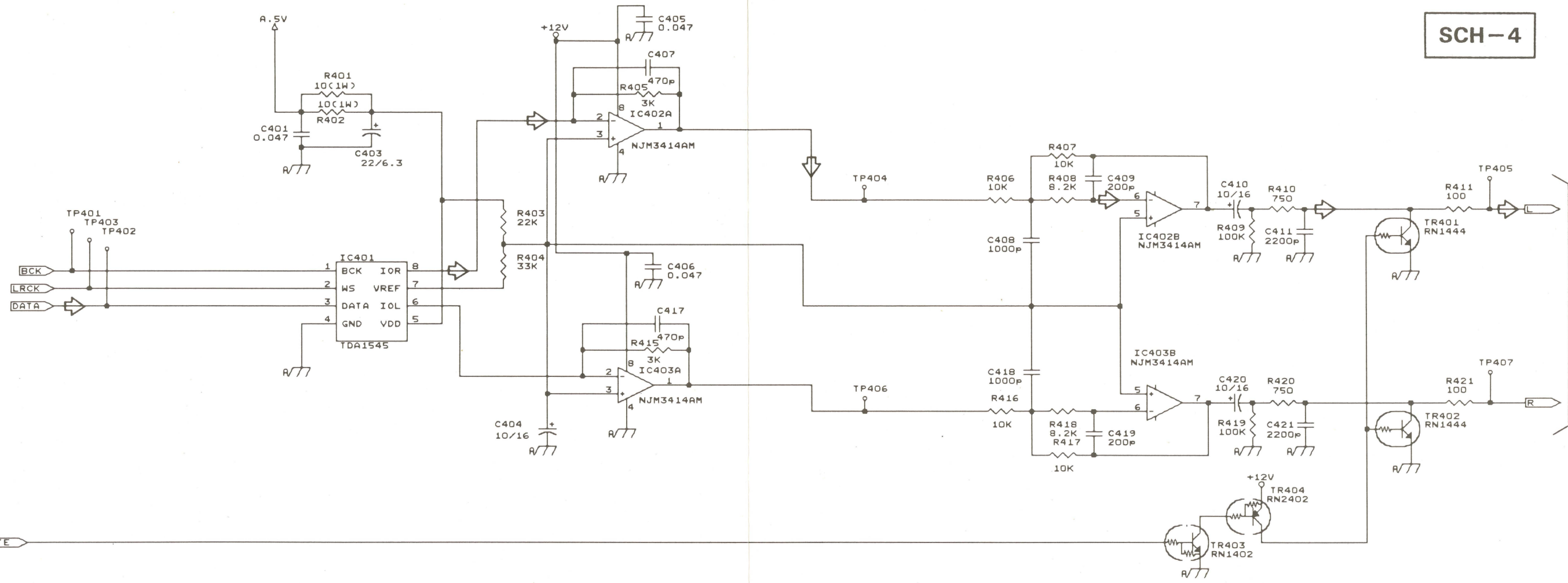
A
B
C
D

IC108 IC301 IC302 IC303 IC304 TR301-TR304 IC102 IC118 IC105 IC501 IC107 IC110 IC111 IC112 TR501 TR502 IC115 IC117 IC516 IC508 IC508 IC508 IC507 IC517 IC518 IC519 IC520 IC521 TR301-TR304 IC302 IC303 IC304 TR301 TR302 TR303 IC305 TR304 TR305 TR306 TR307 TR308 TR309 TR310 TR311 TR312 TR313 TR314 TR315 TR316 TR317 TR318 TR319 TR320 TR321 TR322 TR323 TR324 TR325 TR326 TR327 TR328 TR329 TR330 TR331 TR332 TR333 TR334 TR335 TR336 TR337 TR338 TR339 TR340 TR341 TR342 TR343 TR344 TR345 TR346 TR347 TR348 TR349 TR350 TR351 TR352 TR353 TR354 TR355 TR356 TR357 TR358 TR359 TR360 TR361 TR362 TR363 TR364 TR365 TR366 TR367 TR368 TR369 TR370 TR371 TR372 TR373 TR374 TR375 TR376 TR377 TR378 TR379 TR380 TR381 TR382 TR383 TR384 TR385 TR386 TR387 TR388 TR389 TR390 TR391 TR392 TR393 TR394 TR395 TR396 TR397 TR398 TR399 TR400 TR401 TR402 TR403 TR404 TR405 TR406 TR407 TR408 TR409 TR410 TR411 TR412 TR413 TR414 TR415 TR416 TR417 TR418 TR419 TR420 TR421 TR422 TR423 TR424 TR425 TR426 TR427 TR428 TR429 TR430 TR431 TR432 TR433 TR434 TR435 TR436 TR437 TR438 TR439 TR440 TR441 TR442 TR443 TR444 TR445 TR446 TR447 TR448 TR449 TR450 TR451 TR452 TR453 TR454 TR455 TR456 TR457 TR458 TR459 TR460 TR461 TR462 TR463 TR464 TR465 TR466 TR467 TR468 TR469 TR470 TR471 TR472 TR473 TR474 TR475 TR476 TR477 TR478 TR479 TR480 TR481 TR482 TR483 TR484 TR485 TR486 TR487 TR488 TR489 TR490 TR491 TR492 TR493 TR494 TR495 TR496 TR497 TR498 TR499 TR500

MAIN PCB unit (4/5) (DWG1456)

[AUDIO PART]

SCH-4



To MAIN PCB unit (1/5) AUDIO PART (→SCH-1)

To MAIN PCB unit (1/5) AUDIO PART (→SCH-1)

SIGNAL ROUTE
⇒ : RF & AUDIO (DATA) SIGNAL

- R R421
- C C421
- TR TR404
- IC IC403
- TP TP407

SCH-4 MAIN PCB UNIT (4/5)
(AUDIO SECTION)

MAIN PCB UNIT (4/5)
(AUDIO SECTION) SCH-4

● MAIN PCB UNIT (5/5)
(SCSI SECTION)

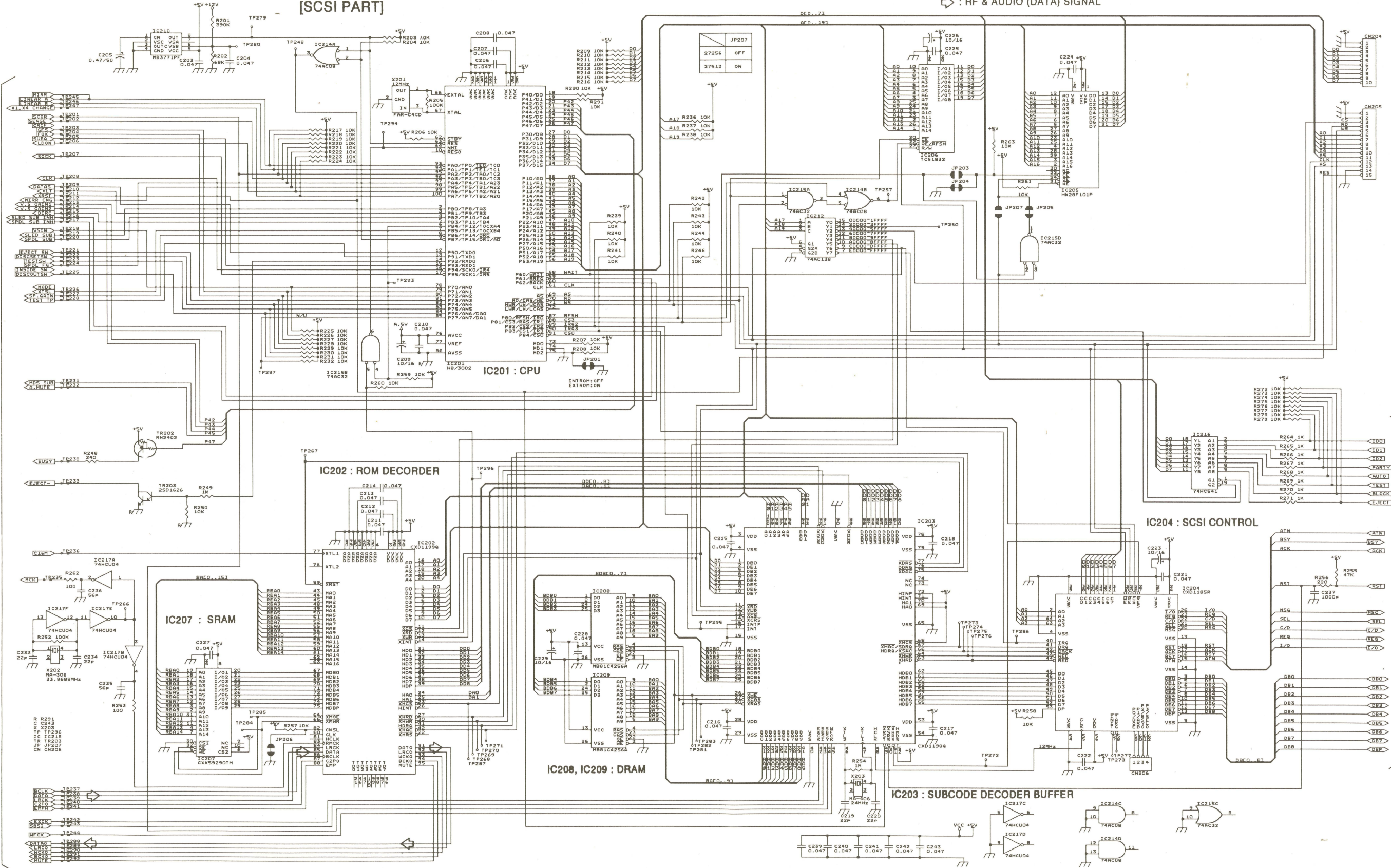
MAIN PCB unit (5/5) (DWG1456)
[SCSI PART]

SCH-5

SIGNAL ROUTE
◁ : RF & AUDIO (DATA) SIGNAL

To MAIN PCB unit (1/5) SCSI PART (SCH-1)

To MAIN PCB unit (1/5) SCSI PART (SCH-1)



SCH-5

MAIN PCB UNIT (5/5)
(SCSI SECTION)

SCH-5

MAIN PCB UNIT (5/5)
(SCSI SECTION)

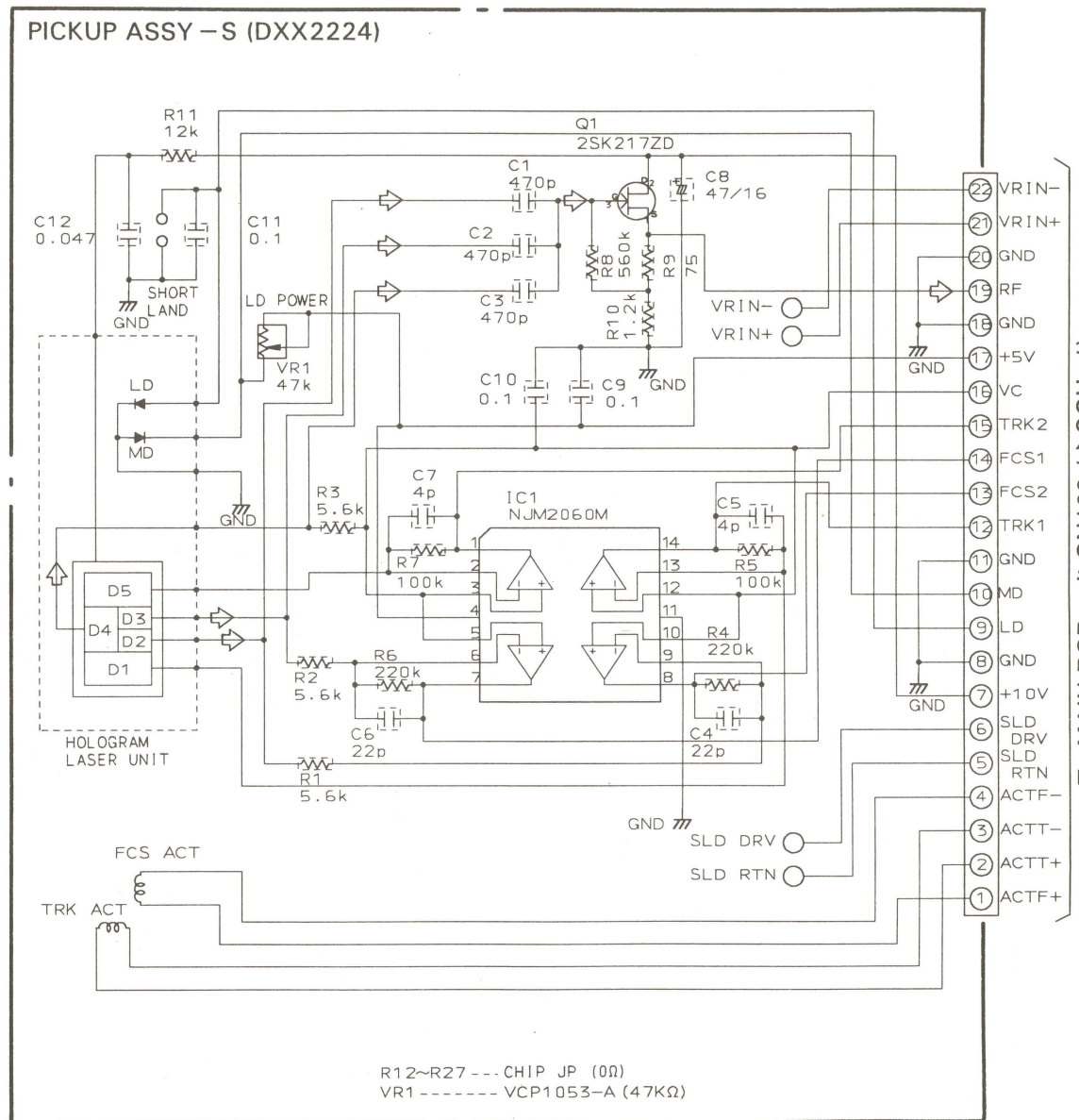
(2). REFLECTOR PCB UNIT, HEADPHONE AMP PCB UNIT, SPINDLE MOTOR AND PICKUP ASSY - S

A

B

C

D

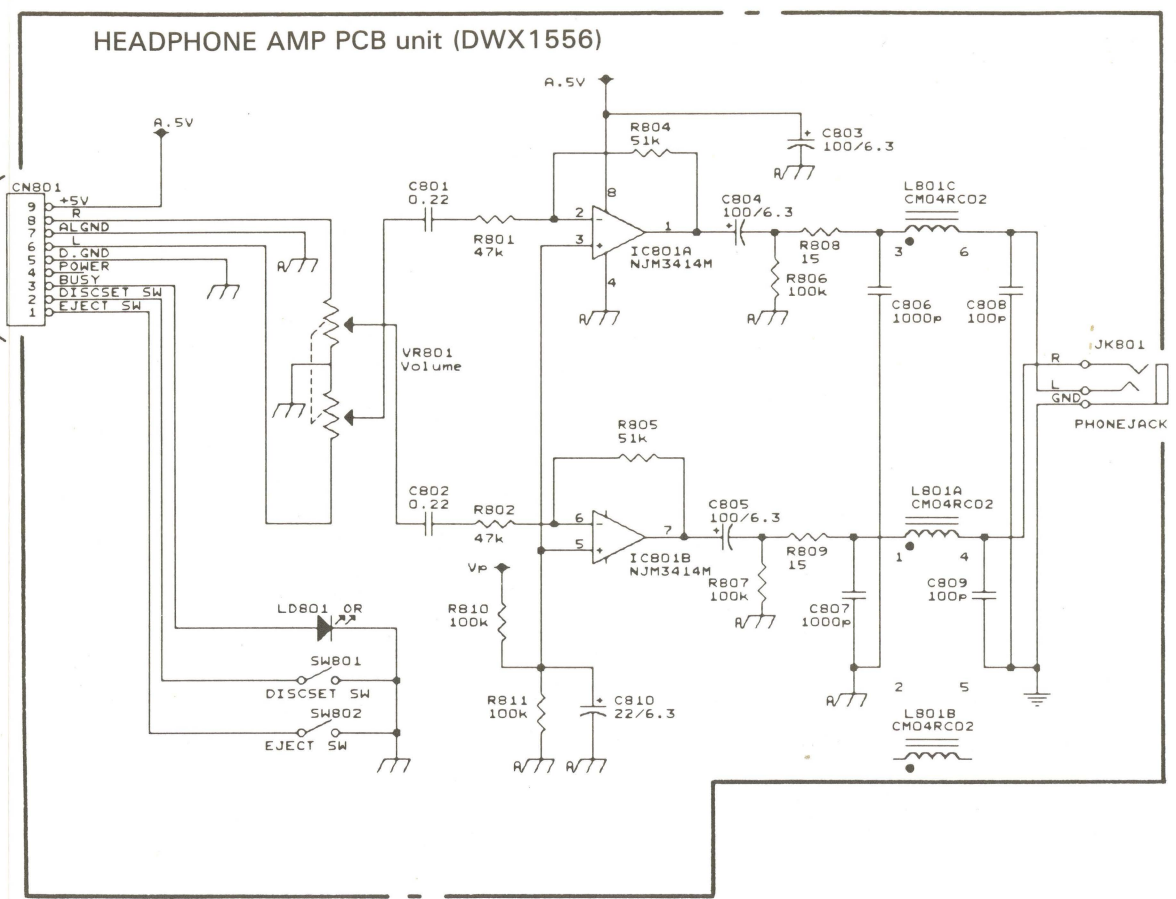


SCH-6

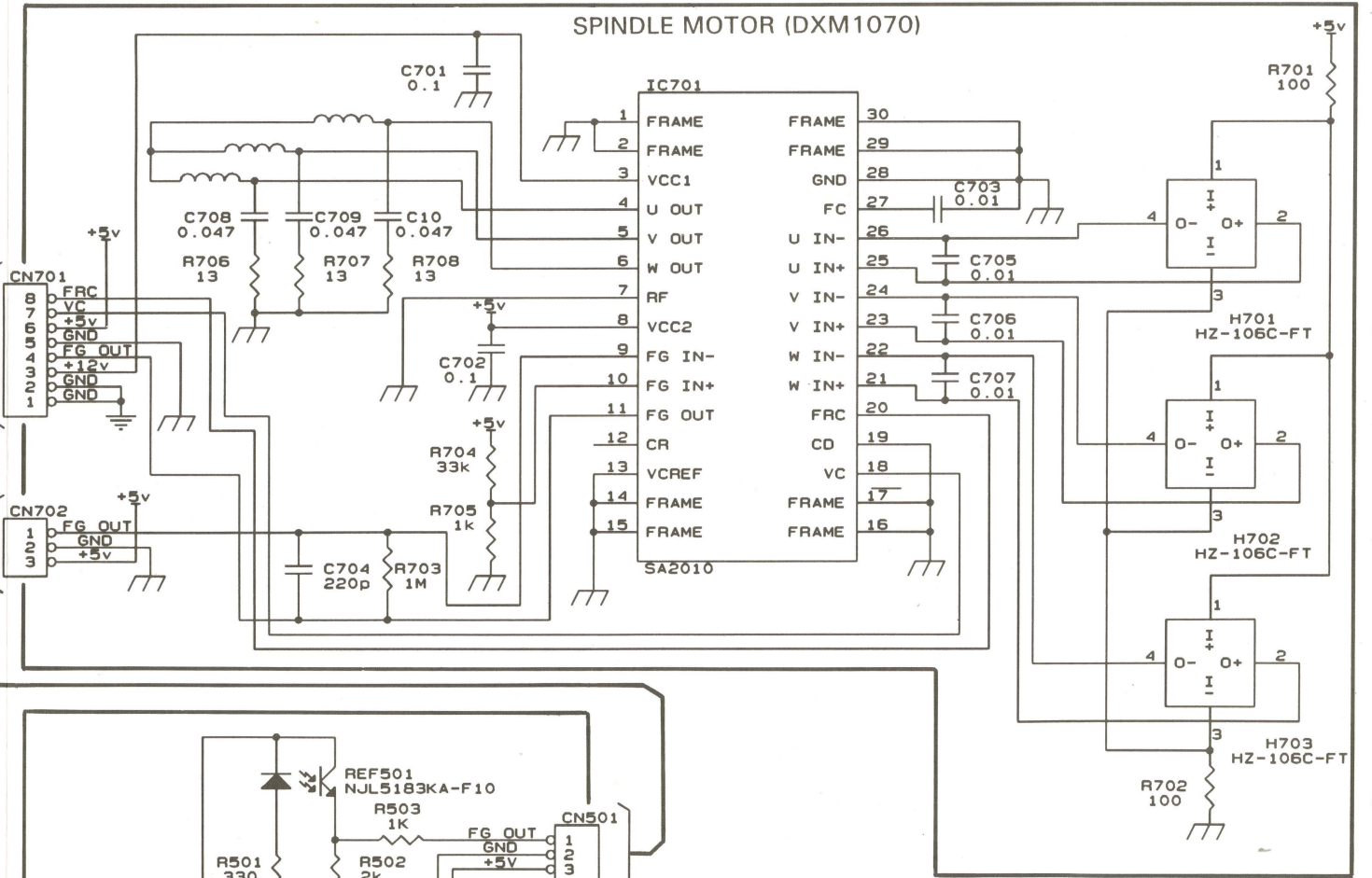
PICKUP ASSY - S, REFLECTOR PCB UNIT, HEADPHONE AMP PCB UNIT, SPINDLE MOTOR

SCH-6

To MAIN PCB unit CN401 (SCH-1)



To MAIN PCB unit CN102 (SCH-1)

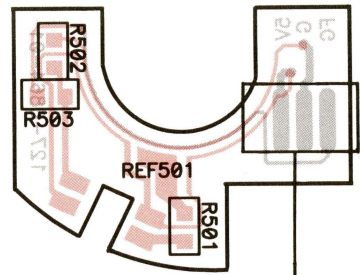


REFLECTOR PCB unit (DWX1555)

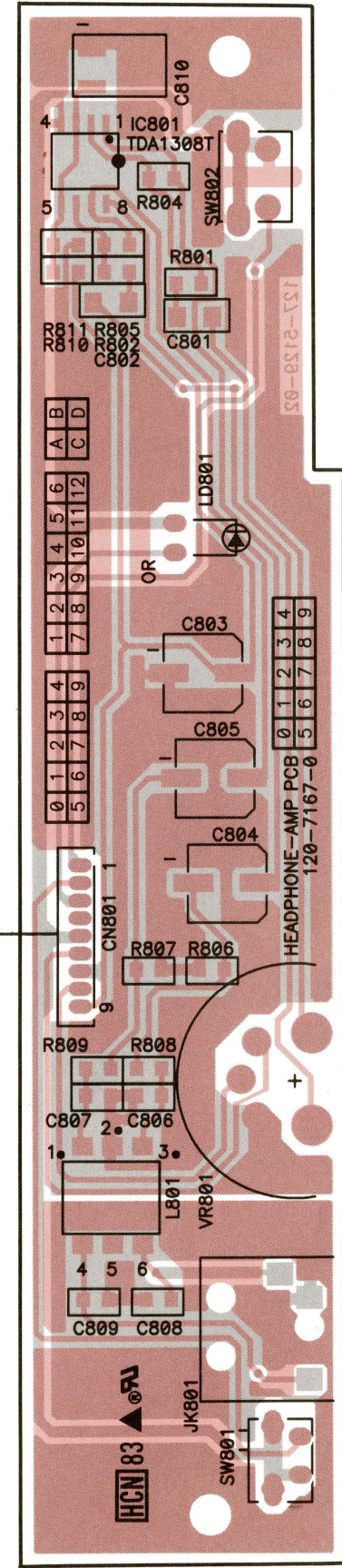
PICKUP ASSY - S, REFLECTOR PCB UNIT, HEADPHONE AMP PCB UNIT, SPINDLE MOTOR

SCH-6

REFLECTOR PCB unit



HEADPHONE AMP PCB unit

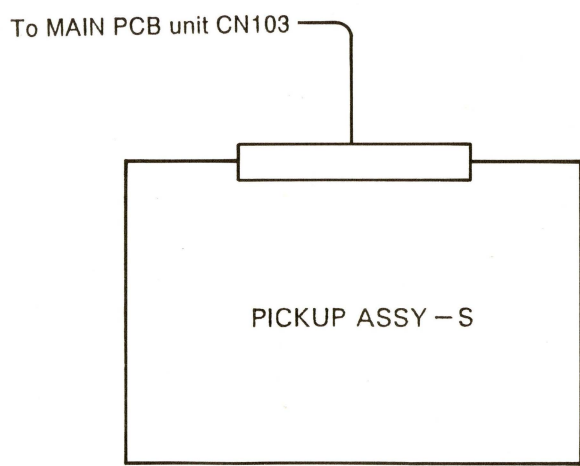
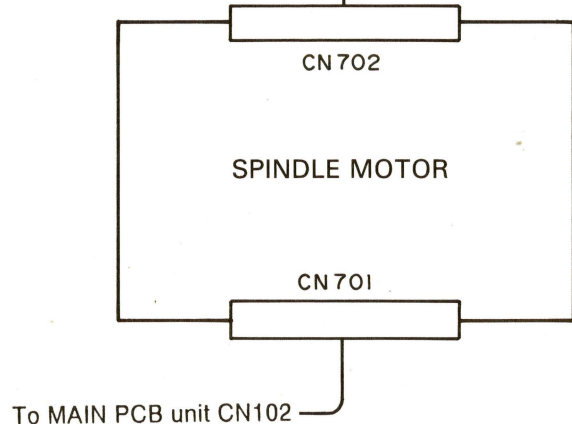


A

B

C

D

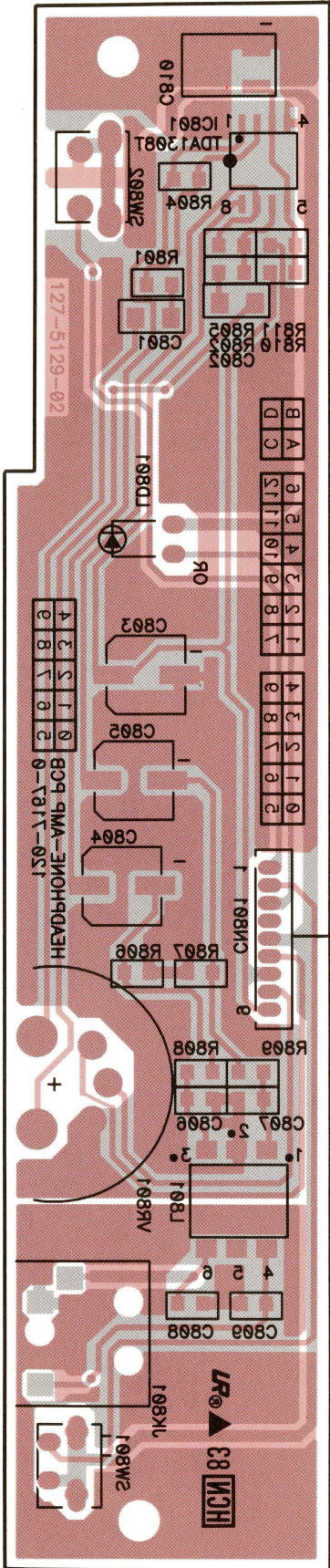


- This diagram is viewed from the pink colored foil side.
- This PCB is double sided.

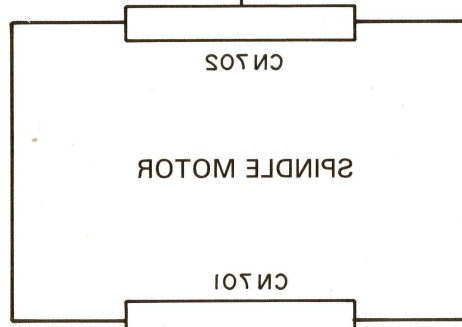
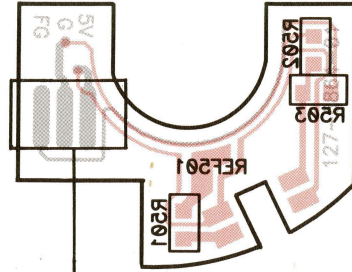
IC801

VR801

HEADPHONE AMP PCB unit



REFLECTOR PCB unit



To MAIN PCB unit CN105

To MAIN PCB unit CN401

To MAIN PCB unit CN103



- This diagram is viewed from the gray colored foil side.
- This PCB is double side.

A

IC801

B

C

D

A

B

C

D

2.3 BLOCK DIAGRAM

