Clarion

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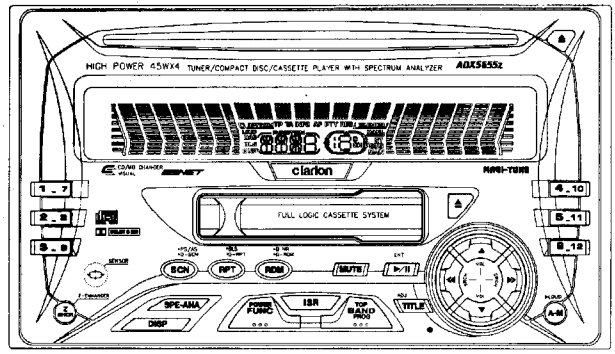
Service Manual

CeNET



AM/FM CD/Cassette Player With CD/MD Changer Control

Model **ADX5655z**

(PE-2322B-A FOR U.S.A. AND OTHER COUNTRIES)

■SPECIFICATIONS

FM tuner section

Frequency range:	87.9 MHz to 107.9 MHz
Usable sensitivity:	11 dBf
50 dB quieting sensitivity:	17 dBf
Alternate channel selectivity:	75 dB
Stereo separation:	35 dB (1 kHz)
Frequency response:	30 Hz to 15 kHz (±3 dB)

AM tuner section

Frequency range:	530 kHz to 1710 kHz
Usable sensitivity:	25 μ V

CD player section

Frequency response:	10 Hz to 20 kHz (±1 dB)
Signal to noise ratio:	100 dB (1 kHz)
Dynamic range:	95 dB (1 kHz)
Harmonic distortion:	0.01%

Tape deck section

Wow & flutter:	0.06% (WRMS)
Channel separation:	45 dB (1 kHz)
Frequency response (±3 dB)	
120 μ s (normal):	30 Hz to 18 kHz
70 μ s (CrO_2FeCr, Metal):	30 Hz to 20 kHz
Signal to noise ratio	
70 μ s (CrO_2FeCr, Metal):	58 dB
Dolby B NR:	67 dB

Audio section

Maximum power output:	180 W(45 W×4 ch) (EIAJ)
Continuous average power output:	16W×4, into 4Ω, 20 Hz to 20 kHz, 1%THD
Bass control action:	±13 dB (30 Hz)
Treble control action:	±10 dB (10 kHz)
Line output level:	1.8 V (CD 1 kHz)

General

Power supply voltage:	14.4 V DC (10.8 to 15.6 V allowable), negative ground
Current consumption:	Less than 15 A
Speaker impedance:	4Ω (4Ω to 8Ω allowable)
Weight:	Source unit 2.6 kg Remote control unit 30 g (including battery)
Dimensions(mm):	Source unit 178(W)×100(H)×155(D) Remote control unit 44(W)×110(H)×27(D)

■NOTE

※Disc not bearing the CD mark and CD-ROMs cannot be played by this unit.

※When an optional changer is connected through the CeNET cable, this unit controls all the changer functions. This unit can control a total of 2 changers(MD and/or CD).

※Avoid using cassettes of 120 minutes or longer.

※We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

※Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

※"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

※Specifications and design are subject to change without notice for further improvement.

■COMPONENTS

PE-2322B-A

Main unit	————	1
Remote control unit	RCB-130-600	1
Battery (SUM-3)	————	2
Finisher	383-0591-00	1
Extension lead	854-6349-56	1
Part's bag	————	
Spacer	340-1581-00	8
Double face	347-3913-20	2
Screw	734-5008-31	1
Screw	714-5008-41	8
Screw	716-0496-01	7

■FEATURES

1. 8-Times Oversampling Digital Filter and Dual 1-Bit D/A Converters
2. Zero-Bit Detector™ Mute Circuit
3. Full Logic Tape Transport with True Function/Auto Reverse with Dual Azimuth Adjust
4. Dolby® B Noise Reduction
5. **MAGI-TUNE®** FM Reception System
6. Controller for Optional TV Tuner Modules
7. Capability to Read CD TEXT Data from Clarion Compatible CD Changer
8. Z-Enhancer with 3 Adjustment Modes
9. CeNET with Balanced Audio Line Transmission and Dynamic Noise Canceling
10. Multi-Color FL Display
11. 4-Channel RCA Line Level Output with Fader Control
12. 180W(45W×4) Maximum Power Output

■To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulationtubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handing flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handing the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electric ity before handling the optical pickup.

9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

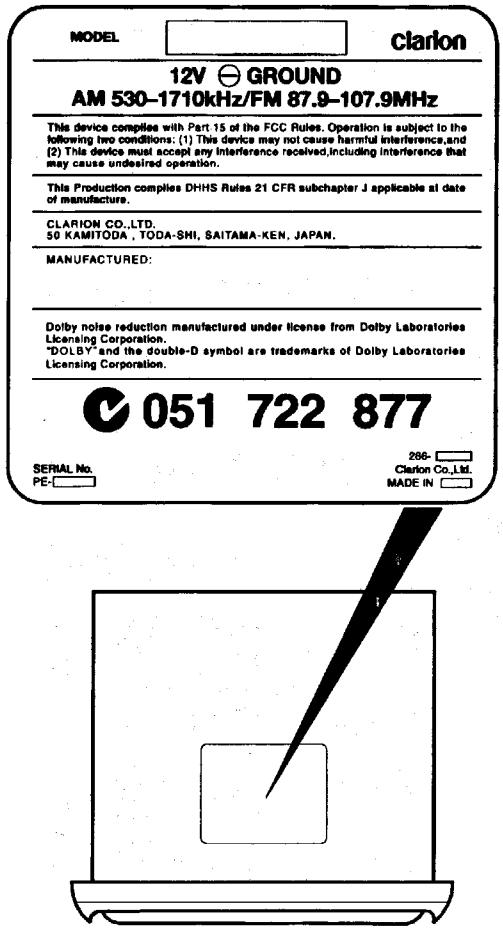
9-2. Actuator
   The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens
   Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropolalcohol to lens paper and wipe the lens gently.

■ CAUTIONS

Use of controls, adjustments, or performance of procedures other those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjustment or repaired by anyone expect properly qualified service personnel.



Bottom view of Source Unit

■ CHANGING THE RECEPTION AREA

This unit is initially set to U.S.A. frequency intervals of 10 kHz for AM and 200 kHz for FM deviation. When using it outside the U.S.A., the frequency reception range can be switched to the intervals below:

		Initial setting (U.S.standard)	New setting (outside U.S.)
AM	Frequency intervals	10kHz	9kHz
	Frequency range	530 to 1710kHz	531 to 1629kHz
FM	Frequency intervals	200kHz	50kHz
	Frequency range	87.9 to 107.9MHz	87.5 to 108MHz

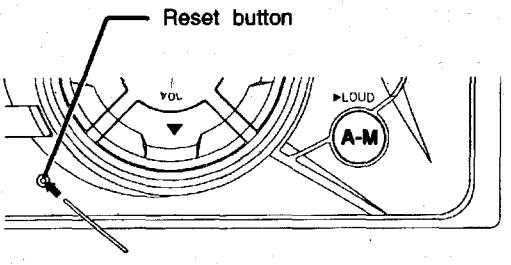
Setting the reception area

1. Press the FNC button and select the desired radio mode (FM or AM).
2. Pressing the RDM button, add the 1 button less than using the 2sec to change the area from inside the U.S. to outside the U.S. One more press RDM button add the 1 button less than 2sec to change the area from outside the U.S. to inside the U.S.

■ ADJUSTMENT

Item	Procedure	Measuring instrument
Dolby level	1. Insert a Dolby level test tape(400Hz, 200nWb/m) and connect a milli-volt meter to TP101(L)/TP102(R). 3. Adjust VR101(L)/VR102(R) so that the output of TP101(L)/TP102(R) is 388mV ±1dB.(Dolby SW:off)	Dolby test tape Milli-volt meter
Azimuth adjustment	1. Insert a azimuth test tape(10kHz,—10VU) and adjust the azimuth-adjustment screw so that the output of FWD/REV is maximum. 2. After adjustment, fix the azimuth-adjustment screw with bond.	Azimuth test tape Milli-volt meter
Tape speed	1. Insert a Wow & flutter test tape(3kHz,—10VU) and connect a frequency counter to TP101(L)/TP102(R). 2. Adjust speed VR of the motor so that the output of TP101(L)/TP102(R) is 3000Hz ±45Hz.	Wow & flutter test tape Frequency counter

■ TROUBLESHOOTING

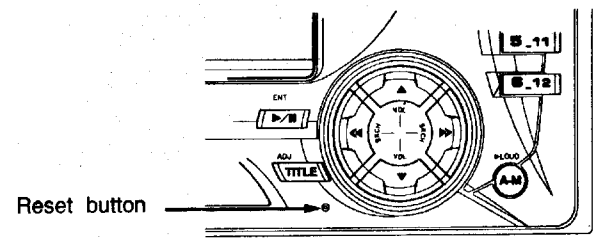
	Problem	Cause	Measure
General	Power dose not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage as the old fuse.
		Incorrect wiring.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	1.Turn the unit off. 2.Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3.Turn the unit back on. 4.Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. 
Tape	Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc., to clean the head.
		B NR button is not pressed.	When listening to a tape recorded with Dolby NR, press B NR button and select B NR.
CD	CD cannot be loaded.	Another CD is already loaded.	Eject the CD before loading the new one.
	Sound skips or is noisy.	CD is dirty.	Clean the CD with a soft cloth.
		CD is heavily scratched or warped.	Replace with a CD with no scratches or no warped.
	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let it dry for about 1 hour with the power on.

■ ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
CD	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism and consult your store of purchase.
	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
Tape	ERROR 1	Tape cannot be played due to defective tape such as cut tape.	Eject the tape then replace it with a new one.
	ERROR 2	Tape is caught and cannot be played.	Remove the caught or wound tape.
	ERROR 4	Tape mode cannot be detected.	This is a failure of tape mechanism and consult your store of purchase.
	ERROR 8	Tape is caught and cannot be ejected.	Eliminate the reason for which the tape is caught.
CD changer	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism and consult your store of purchase.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD changer	ERROR H	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism and consult your store of purchase.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.

If an error display other than the ones described above appears, press the reset button with a thin rod. If the problem persists, turn off the power and consult your store of purchase.



■EXPLANATION OF IC:

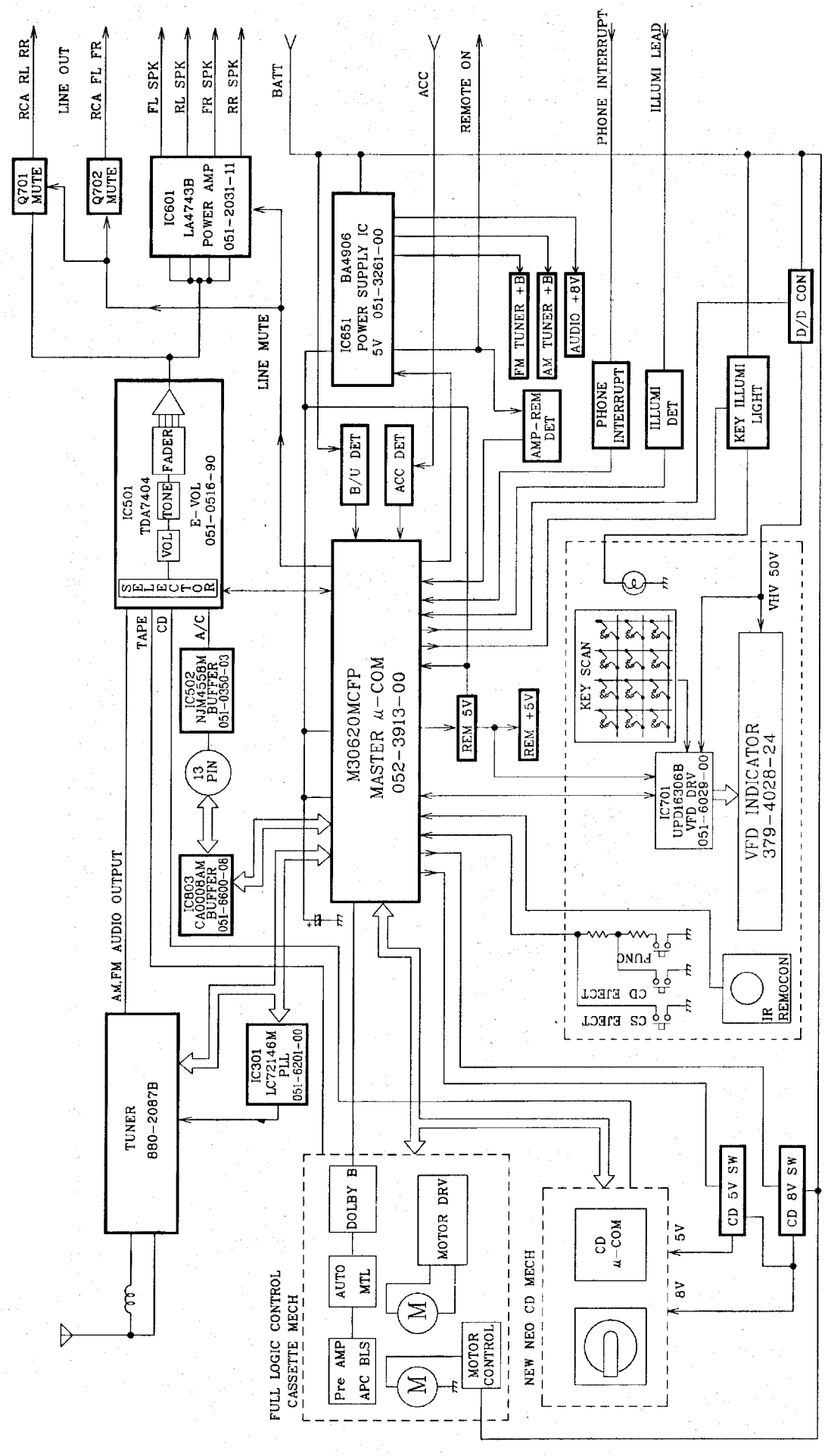
■M30620MC-D64FP 052-3913-00 MASTER MICRO COMPUTER

1.Outward Form : 100 pins QFP

2.Terminal Description

pin 1 : NC : IN : NC(GND).
pin 2 : NC : IN : NC(GND).
pin 3 : NC : IN : NC(GND).
pin 4 : REMOCON : IN : Signal input from Remote controller.
pin 5 : SBSY : IN : CD IC Sub-Q data request signal input.
pin 6 : DOLBY ON : O : DOLBY ON signal output.
pin 7 : TIME BASE : IN : Time base signal input terminal(8Hz).
pin 8 : BYTE : IN : NC(GND).
pin 9 : CNVss : IN : NC(GND).
pin 10 : NC : IN : NC(GND).
pin 11 : ST/SD : IN : AM/FM SD IN, "LO"=FM ST.
pin 12 : RESET : IN : Reset signal input. Negative logic.
pin 13 : Xour : O : Crystal connection.
pin 14 : Vss : — : Ground.
pin 15 : Xin : IN : Crystal connection.
pin 16 : Vcc : — : Positive supply voltage.
pin 17 : NMI : IN : NC(GND).
pin 18 : Acc-DET : IN : ACC ON signal input.
pin 19 : B/U-DET : IN : Backup voltage ON signal input. "L"=Backup OFF.
pin 20 : KEY-INT : IN : KEY interrupt signal input. Negative logic.
pin 21 : 29PIN-CONNECT : IN : μ COM 29PIN terminal.
pin 22 : D/D ON : O : "H"=D/D ON.
pin 23 : KEY DO : O : Serial data output to key scan IC(M66006).
pin 24 : BEEP : O : Output buzzer signal.
pin 25 : KEY CLK : O : Serial data output to key scan IC(M66006).
pin 26 : KEY CS : O : Serial data output to key scan IC(M66006).
pin 27 : KEY S : O : Serial data output to key scan IC(M66006).
pin 28 : VFD STB : O : Data out to VFD driver.
pin 29 : RX : IN : Ce-NET data communication line.
pin 30 : TX : O : Ce-NET data communication line.
pin 31 : PLL-DO : O : PLL serial data output.
pin 32 : PLL-DI : IN : PLL serial data input.
pin 33 : PLL-SCK : O : PLL serial data output.
pin 34 : PLL-CE : O : PLL chip enable signal output.
pin 35 : VFD-B : O : Data out to VFD driver.
pin 36 : VFD-BLK : O : Data out to VFD driver.
pin 37 : VFD-CLK : O : Clock pulse output to VFD driver.
pin 38 : CHACK SW : IN : "L"=Disc is loaded and the chuking switch is ON.
pin 39 : P1 : O : Power motor control signal input.
pin 40 : P2 : O : Power motor control signal input.
pin 41 : FWD/REV : O : "L"=FWD, "H"=REV.
pin 42 : APC DET : IN : "H"=Interval.
pin 43 : APC SENSE : O : Sensitivity control signal output. "L"=Play, "H"=FF/REW.
pin 44 : BIT2 : IN : Mechanism mode detect signal input.
pin 45 : BIT1 : IN : Mechanism mode detect signal input.
pin 46 : BIT3 : IN : Mechanism mode detect signal input.
pin 47 : TAPE IN : IN : "H"=Tape loading start.
pin 48 : NC : IN : NC(GND).
pin 49 : REEL PULSE : IN : Reel pulse input terminal.
pin 50 : MAIN MOTOR : O : Main motor ON signal output.
pin 51 : MECH ON : O : Power supply control signal output for the tape mechanism. "H"=ON.
pin 52 : VOL CLK : O : Serial clock output to Electric volume.
pin 53 : VOL DO : O : Serial data output to Electric volume.
pin 54 : NC : IN : NC.
pin 55 : 5V REM : O : 5V power supply ON signal output for Micro computer.
pin 56 : KEY ILL REM : O : Key illumination ON signal output.
pin 57 : KEY DI : IN : Serial data output to key scan IC(M66006).
pin 58 : SYS-MUTE : O : System mute signal output. Negative logic.
pin 59 : A-ANT DET : IN : Motor antenna ON signal output terminal.
pin 60 : NC : IN : NC(GND).
pin 61 : SYS-Acc : O : Ce-NET Acc detect signal output.
pin 62 : Vcc : — : Positive supply voltage.
pin 63 : AMP-REM-DET : IN : "L"=The remote line is shorted.
pin 64 : Vss : — : Ground.
pin 65 : STAND BY : O : Power supply IC(BA4906) control terminal.
pin 66 : MODE2 ANT : O : "HI"=ANT power ON.
pin 67 : NC : IN : NC(GND).
pin 68 : CD-5V-REM : O : 5V power supply ON signal output.
pin 69 : CD-8V-REM : O : 8V power supply ON signal output.
pin 70 : MCW : O : Loading motor control output.
pin 71 : MCCW : O : Loading motor control output.
pin 72 : TR-C : IN : Photo sensor signal input.
pin 73 : TR-B : IN : Photo sensor signal input.
pin 74 : TR-A : IN : Photo sensor signal input.
pin 75 : NC : IN : NC(GND).
pin 76 : RST : O : Reset signal output to CD IC.
pin 77 : CCE : O : Chip enable signal output terminal.
pin 78 : BUCK : O : Clock output terminal to CD IC.
pin 79 : BUC3 : O : Data output terminal to CD IC.
pin 80 : BUC2 : O : Data output terminal to CD IC.
pin 81 : BUC1 : O : Data output terminal to CD IC.
pin 82 : BUC0 : O : Data output terminal to CD IC.
pin 83 : NC : IN : NC(GND).
pin 84 : NC : IN : NC(GND).
pin 85 : SPA-C : O : Frequency select signal output for Spectrum analyzer.
pin 86 : SPA-B : O : Frequency select signal output for Spectrum analyzer.
pin 87 : SPA-A : O : Frequency select signal output for Spectrum analyzer.
pin 88 : NC : IN : NC(GND).
pin 89 : NC : IN : NC(GND).
pin 90 : INIT1 : IN : Destination setting terminal. "LO"JAPAN, 3rd, "HI"USA.
pin 91 : INIT2 : IN : Destination setting terminal. "LO"3rd and USA, "HI"JAPAN.
pin 92 : NC : IN : NC(GND).
pin 93 : SPA-DATA : IN : The input terminal of internal A/D converter for Spectrum analyzer.
pin 94 : ILL-DET : IN : Illumination ON signal input. Negative logic.
pin 95 : NC : IN : NC(GND).
pin 96 : A Vss : — : Ground.
pin 97 : KEY-A/D : IN : Input terminal of A/D converter for Key judgment.
pin 98 : Vref : — : Reference voltage for A/D converter.
pin 99 : A Vcc : — : Positive supply voltage for A/D converter.
pin100 : NC : IN : NC(GND).

■BLOCK DIAGRAM



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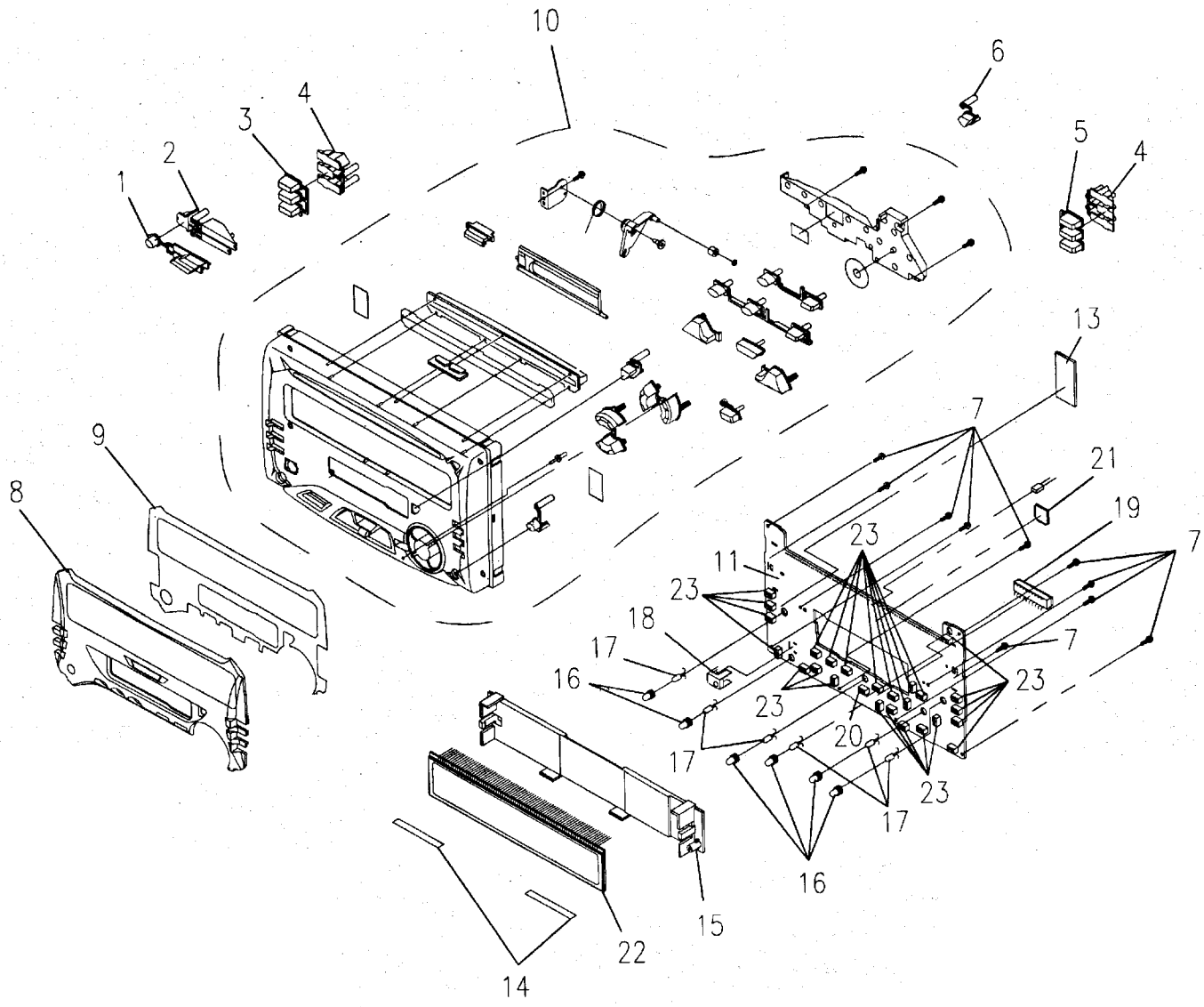
■ EXPLODED VIEW · PARTS LIST:

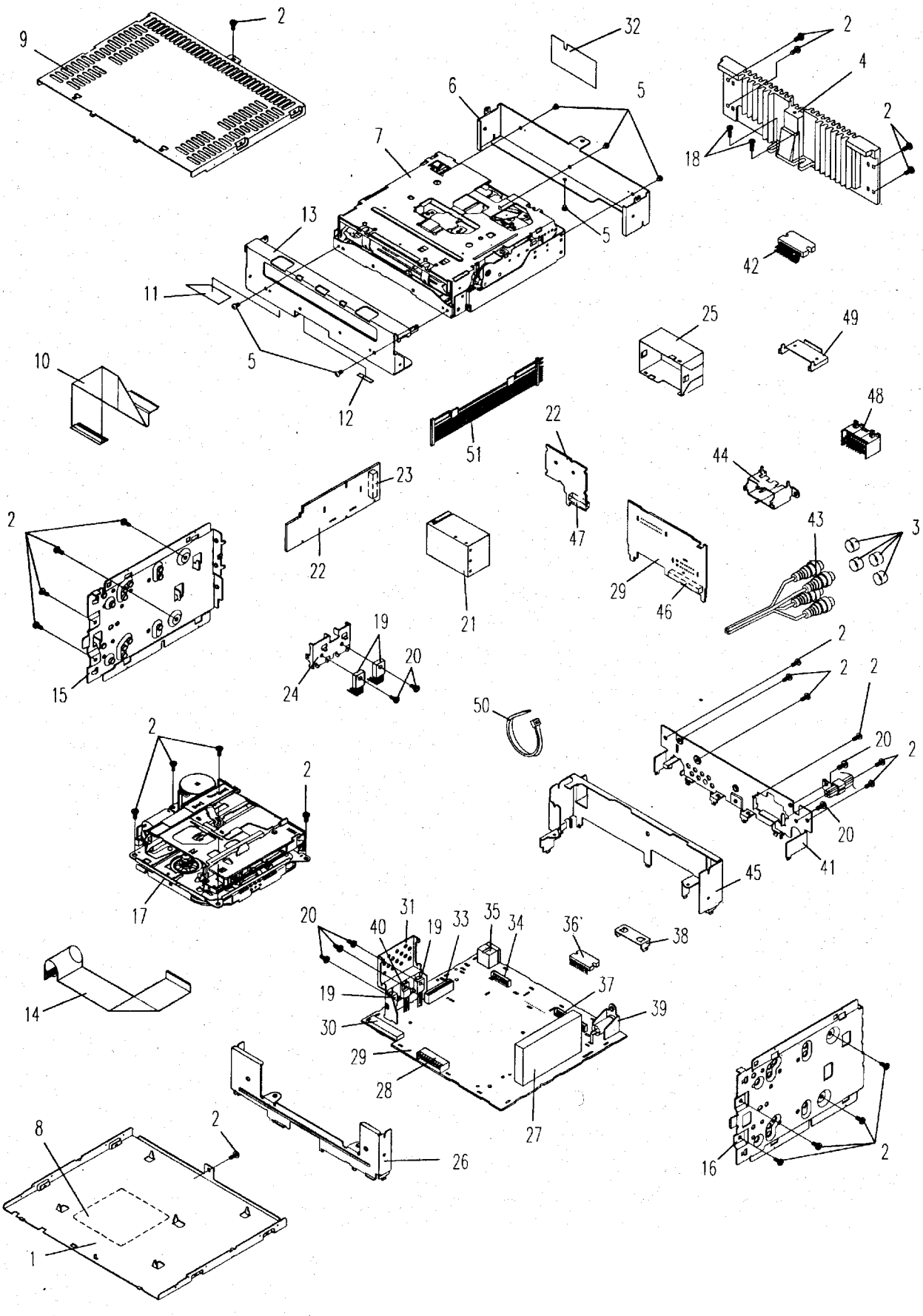
Escutcheon section



NO.	PARTS NO.	DESCRIPTION	Q'TY
1	382-5379-00	BUTTON	1
2	335-6004-00	ILLUMI BUTTON	1
3	382-5376-00	BUTTON	1
4	335-6003-00	ILLUMI BUTTON	2
5	382-5377-00	BUTTON	1
6	382-5383-01	BUTTON	1
7	716-0778-00	WAVE SCREW	10
8	373-0906-25	DIAL-CVR	1
9	347-6158-00	DOUBLE FACE	1
10	940-7875-22	ESCUTCHEON ASSY	1
11	039-1666-00	SW-PWB (WITHOUT COMPONENT)	1

NO.	PARTS NO.	DESCRIPTION	Q'TY
12	001-7024-02	DIODE	1
13	345-8090-00	CUSHION RUBBER	1
14	347-6278-00	SHADE	2
15	335-6239-00	VFD HOLDER	1
16	345-3436-34	ILLUMI CAP	6
17	017-0444-00	PILOTLAMP	6
18	060-4005-00	IR-RECEIVER	1
19	074-1105-22	OUTLET SOCKET	1
20	013-6305-50	TACT SWITCH	1
21	051-6029-00	IC	1
22	379-4028-24	INDICATOR	1
23	013-6001-50	SWITCH	25

Main section



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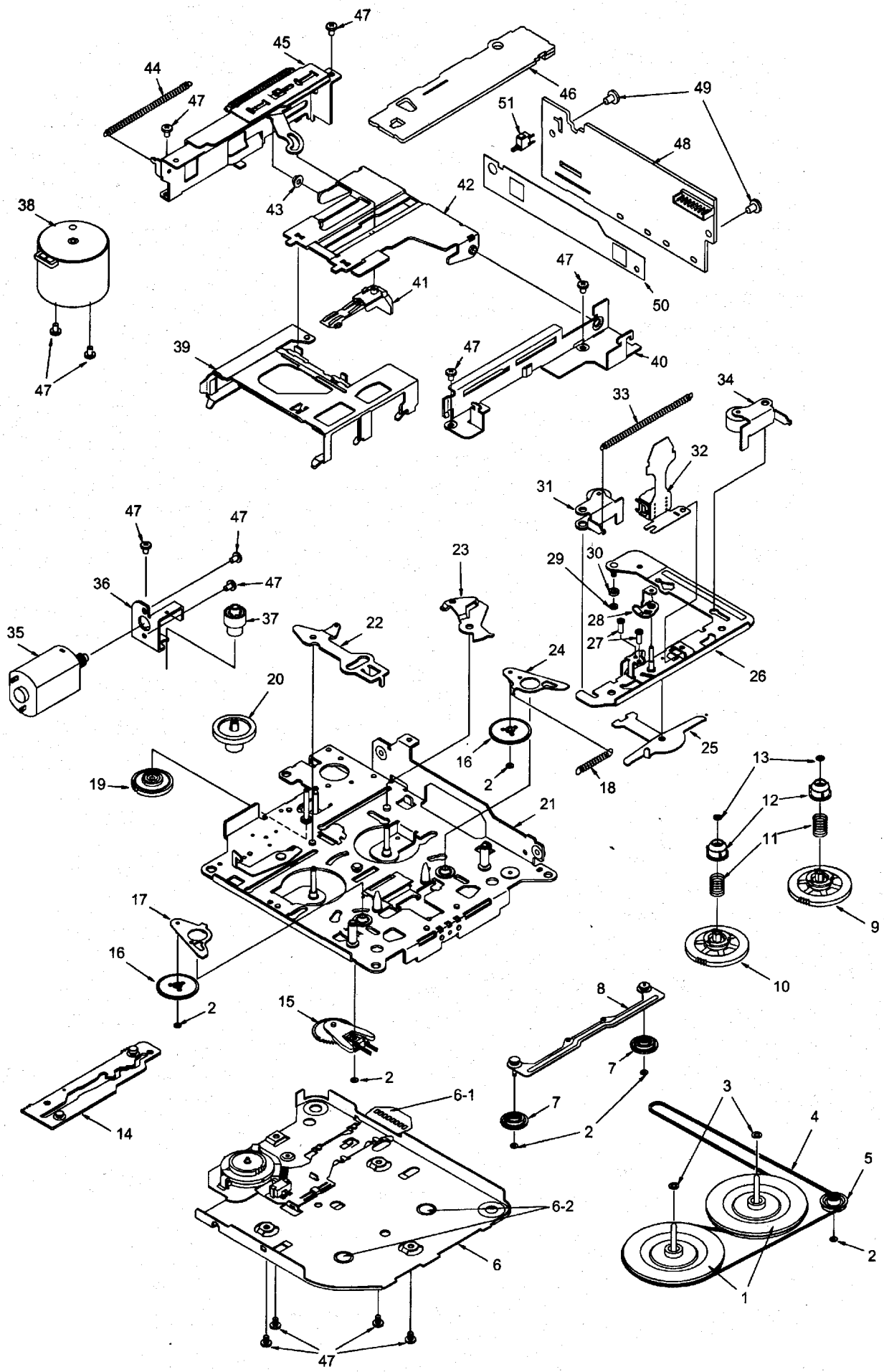
NO.	PARTS NO.	DESCRIPTION	QTY
1	311-1772-01	LOWER CASE	1
2	714-2606-81	MACHINE SCREW	24
3	345-3799-20	RUBBER PART	4
4	313-1709-00	HEAT SINK	1
5	714-2303-81	MACHINE SCREW	6
6	331-2282-80	MECH-BRKT	1
7	929-0092-80	CD-MECH-MODULE	1
8	286-9353-00	SETPLATE	1
9	310-1639-80	UPPER CASE	1
10	816-2451-50	FLAT WIRE	1
11	347-5679-22	DOUBLE FACE	1
12	347-6036-00	DOUBLE FACE	1
13	331-2281-81	MECH-BRKT	1
14	816-2478-00	FLAT WIRE	1
15	305-0279-00	SIDE PLATE	1
16	305-0278-00	SIDE PLATE	1
17	930-0798-81	TAPE-MECH	1
18	714-2612-81	MACHINE SCREW	2
19	102-3420-50	TRANSISTOR	4
20	714-3006-81	MACHINE SCREW	7
21	331-2924-00	SHIELD CASE	1
22	039-1664-00	DD-CON-PWB (WITHOUT COMPONENT)	1
23	076-0351-09	PLUG	1
24	313-1790-00	HEAT SINK	1
25	331-2923-00	SHIELD CASE	1
26	309-0728-02	FRONT PLATE	1

NO.	PARTS NO.	DESCRIPTION	QTY
27	880-2087B	TUNER	1
28	076-0515-22	PLUG	1
29	039-1665-00	MAIN PWB (WITHOUT COMPONENT)	1
30	074-1186-26	OUTLET SOCKET	1
31	313-1789-00	HEAT SINK	1
32	347-6309-00	DOUBLE FACE	1
33	074-0834-22	OUTLET SOCKET	1
34	076-0353-07	PLUG	1
35	074-1194-00	OUTLET SOCKET	1
36	051-3261-00	IC	1
37	076-0353-17	PLUG	1
38	313-1772-02	HEAT SINK	1
39	092-9000-41	ANT RECEPT	1
40	103-2012-00	TRANSISTOR	1
41	307-0650-00	REAR PLATE	1
42	051-2031-11	IC	1
43	855-5401-00	RCA PIN CORD	1
44	331-2644-00	OUTLET HOLDER	1
45	331-2920-01	MECH PLATE	1
46	074-0881-17	OUTLET SOCKET	1
47	074-0881-07	OUTLET SOCKET	1
48	074-1214-01	OUTLET SOCKET	1
49	331-2277-20	IC HOLDER	1
50	335-0833-07	CABLE TIE	1
51	854-4490-50	EXTENSION LEAD	1

■ EXPLODED VIEW · PARTS LIST:

Tape mechanism section 930-0798-81



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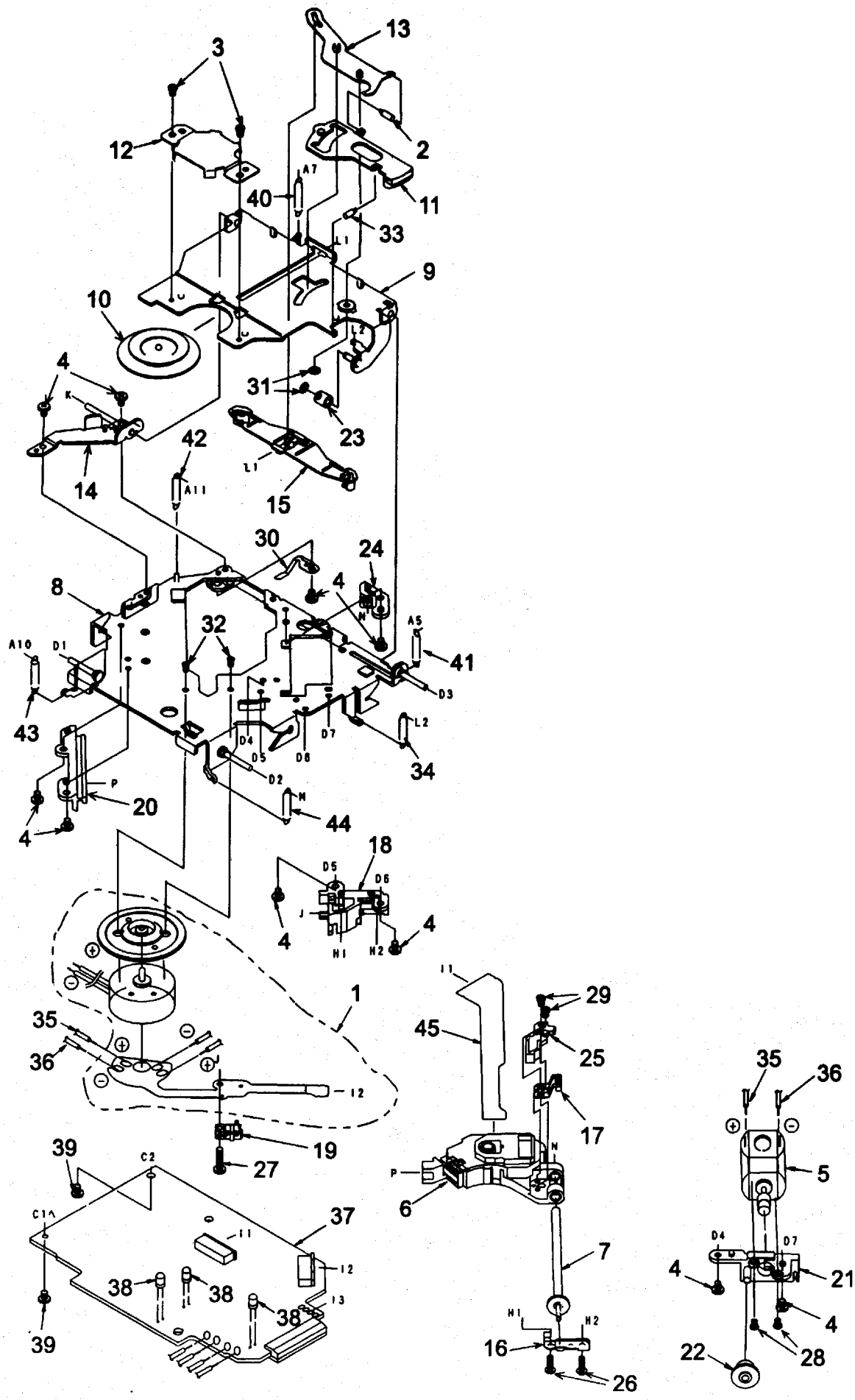
Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

NO.	PART NO.	DESCRIPTION	Q'TY
1	611-0091-03	FLYWHEEL	2
2	746-0724-00	WASHER	6
3	746-0624-00	WASHER	2
4	602-0118-00	BELT	1
5	604-0046-00	TENTION PULLEY	1
6	960-4450-00	BOTTOM SUB ASSY	1
6-1	099-9926-01	BOTTOM FLEX-PWB (WITHOUT COMPONENT)	1
6-2	746-0767-00	WASHER	2
7	613-0286-02	FF/REW GEAR	2
8	960-4262-03	FF/REW PLATE ASSY	1
9	960-4430-00	REEL ASSY F	1
10	960-4431-00	REEL ASSY R	1
11	750-2949-00	SLIDE SPRING	2
12	631-1993-01	SLIDE BUSH	2
13	746-0761-00	WASHER	2
14	960-4266-20	MODE POLATE ASSY	1
15	960-4282-06	DETECT SUB ASSY	1
16	613-0662-00	IDLER GEAR	2
17	960-4264-03	IDOLER PLATE ASSY R	1
18	750-3017-02	IDLER SPRING	1
19	613-0337-00	POWER GEAR	1
20	613-0289-01	GEAR A	1
21	960-4294-22	DECK PLATE ASSY	1
22	960-4301-02	PLAY LINK ASSY	1
23	630-2598-05	EJECT LINK	1
24	960-4263-03	IDOLER PLATE ASSY F	1
25	630-2597-01	CHANGE LINK	1

NO.	PART NO.	DESCRIPTION	Q'TY
26	960-4261-20	HEAD PLATE ASSY	1
27	716-0833-10	AZIMUTH SCREW	2
28	630-2600-01	ADJUST LINK	1
29	746-0762-00	WASHER	1
30	610-0342-01	HADE PLATE ROLLER	1
31	960-4270-05	ROLLER ASSY R	1
32	011-0328-00	HEAD	1
33	750-2946-02	PINCH SPRING	1
34	960-4269-05	ROLLER ASSY F	1
35	SMA-131-100	POWER MOTOR ASSY	1
36	630-2601-02	MOTOR PLATE	1
37	613-0288-01	HELICAL GEAR	1
38	SMA-130-100	MAIN MOTOR ASSY	1
39	606-0093-82	PACK GUIDE	1
40	630-2626-05	PWB FRAME	1
41	631-1992-02	PACK STOPPER	1
42	630-2642-01	GUIDE ARM	1
43	610-0343-00	GUIDE A ROLLER	1
44	750-2947-04	EJECT PLATE SPRING	1
45	960-4389-20	EJECT SUB ASSY	1
46	039-0053-00	SIDE PWB (WITHOUT COMPONENT)	1
47	716-0484-00	SCREW	13
48	HBS-487-100	REAR PWB ASSY (WITH COMPONENT)	1
49	716-0761-01	PWB SCREW	2
50	347-4080-01	INSULATOR	1
51	013-3906-00	SWITCH	1

CD mechanism section 929-0092-80(BB-CD)

Drive unit section



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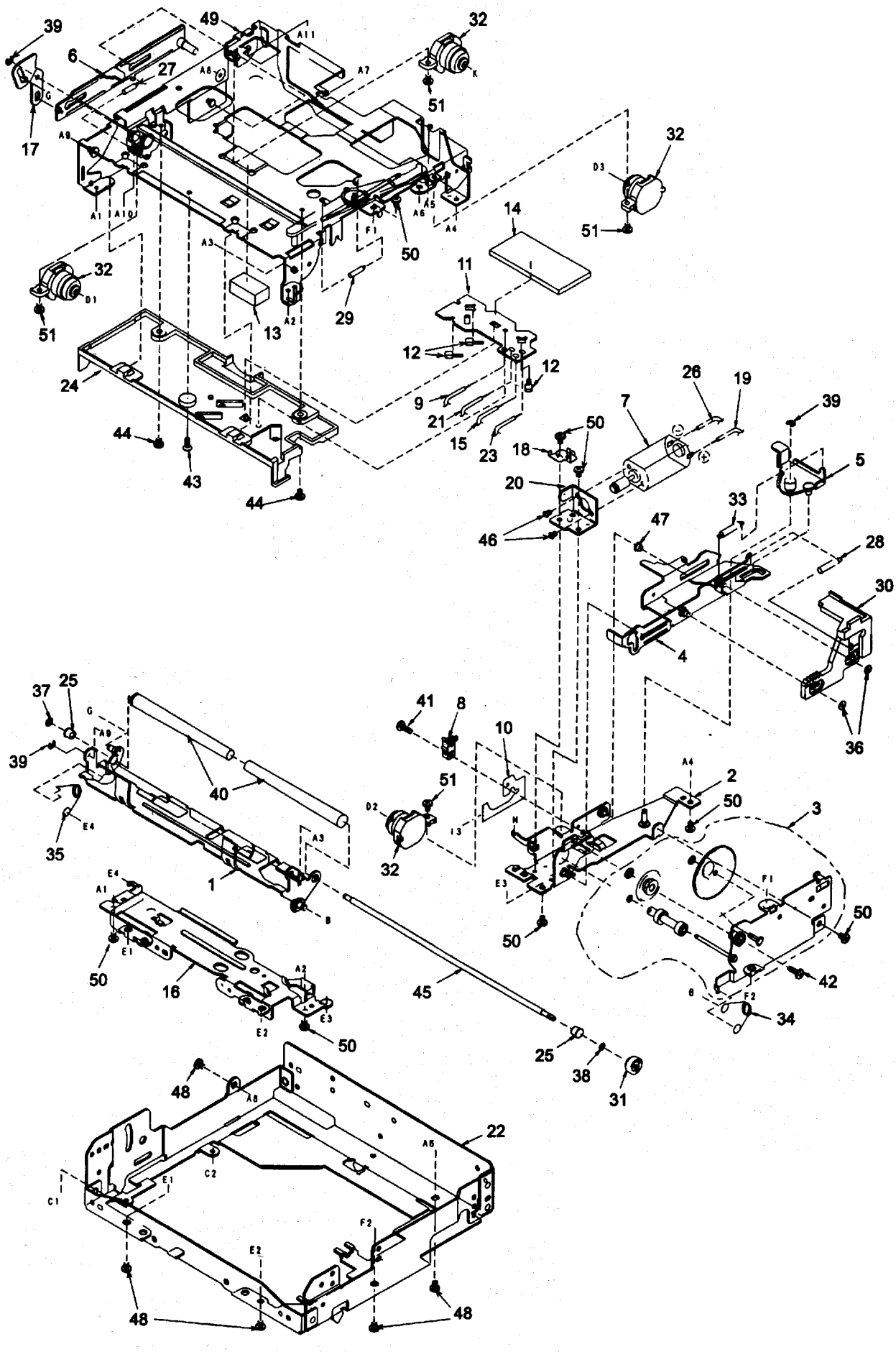
Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

Drive unit section

NO.	PARTS NO.	DESCRIPTION	QTY
1	SMA-151-100	MOTOR ASSY (SPINDLE)	1
2	750-3098-00	L-LINK SPRING	1
3	716-1468-00	SCREW (M2×2.5)	2
4	716-2003-81	SCREW (M2×3)	10
5	SMA-146-100	MOTOR ASSY (SLED)	1
6	969-0008-00	PICK UP UNIT	1
7	HBS-432-100	LS-GEAR ASSY	1
8	966-0447-05	DR-PLATE-ASSY	1
9	966-0449-22	CLAMP-LINK-ASSY	1
10	621-0205-02	CLAMPER RING	1
11	621-0251-03	LOCK LINK	1
12	620-0198-03	CLAMPER PLATE	1
13	966-0314-01	STOP LINK-ASSY	1
14	966-0448-21	SIDE PLATE-ASSY	1
15	621-0252-03	DISC STOPPER	1
16	620-0491-03	SPRING PLATE	1
17	966-0454-00	SCREW H-RACK-ASSY	1
18	621-0358-02	LS-HOLDER-F	1
19	013-7100-00	SWITCH (LIMIT)	1
20	621-0357-03	PICK UP GUIDE	1
21	621-0253-02	MOTOR HOLDER	1
22	621-0255-02	SECOND GEAR	1
23	622-1073-02	CLAMPER ROLLER	1
24	621-0359-02	LS-HOLDER-R	1

NO.	PARTS NO.	DESCRIPTION	QTY
25	621-0375-00	SH-BASE	1
26	716-0675-00	SCREW (M2×5.5)	2
27	716-1555-00	WAVE SCREW (φ2×8)	1
28	732-2004-11	SEMS SCREW (M2×4)	2
29	739-1735-17	PRECISION SCREW (M1.7×3.5)	2
30	620-0690-01	RATTLE PLATE	1
31	746-0761-00	WASHER	2
32	716-1733-00	SCREW (M1.7×2.3)	2
33	750-3099-00	ES-SPRING	1
34	750-3097-03	CLAMPER SPRING	1
35	816-2373-00	LEAD WIRE (WHT)	1
36	816-2372-00	LEAD WIRE (BLU)	1
37	039-1576-00	CD PWB (WITHOUT COMPONENT)	1
38	001-0563-00	LED	3
39	716-1670-00	SCREW (M2×4)	2
40	750-3202-00	CENTER SPRING-B	1
41	750-3096-01	DR-SPRING R	1
42	750-3164-00	DR-SPRING LR	1
43	750-3188-00	DR-SPRING F-B	1
44	750-3201-00	DR-SPRING F-R	1
45	039-1587-00	FPC (WITHOUT COMPONENT)	1

MECH chassis section



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MECH chassis section

NO.	PARTS NO.	DESCRIPTION	QTY
1	966-0309-04	L-DISC-G-ASSY	1
2	966-0310-06	SHIFT-P-CH-ASSY	1
3	HBS-430-100	GEAR PLATE ASSY	1
4	966-0312-06	SHIFT-PLATE-ASSY	1
5	966-0358-01	DRIVE-L-PLATE-ASSY	1
6	966-0359-03	SIDE-L-PLATE-ASSY	1
7	SMA-147-100	MOTOR ASSY (LOADING)	1
8	013-3879-01	CHUCKING SWITCH	1
9	804-4910-60	VINYL-COAT-WIRE (YEL)	1
10	039-0586-01	CHUCKING SWITCH PWB (WITHOUT COMPONENT)	1
11	039-0588-01	SENSOR PWB (WITHOUT COMPONENT)	1
12	060-0252-01	PHOTO-TR	3
13	345-7513-01	CLAMPER SHEET	1
14	345-7514-00	SENSOR PWB SHEET	1
15	802-4910-60	VINYL-COAT-WIRE (RED)	1
16	620-0485-04	FRONT PLATE	1
17	620-0488-01	S-L-LINK PLATE	1
18	620-0489-02	MOTOR PLATE	1
19	802-4904-60	VINYL-COAT-WIRE (RED)	1
20	620-0492-01	MOTOR BRACKET	1
21	801-4910-60	VINYL-COAT-WIRE (BRN)	1
22	620-0773-01	CD-MECH-BRKT	1
23	800-4910-60	VINY-COAT-WIRE (BLK)	1
24	621-0402-01	U-DISC GUIDE-F	1
25	621-0243-02	ROLLER SLEEVE	2

NO.	PARTS NO.	DESCRIPTION	QTY
26	800-4904-60	VINYL-COAT-WIRE (BLK)	1
27	750-3189-00	SIDE-L-SPRING	1
28	750-3098-00	L-LINK SPRING	1
29	750-3094-00	S-ARM SPRING	1
30	621-0248-07	RACK GEAR	1
31	621-0249-02	ROLLER GEAR	1
32	629-0074-00	DAMPER	4
33	750-3092-03	SHIFT SPRING	1
34	750-3091-03	LOADING-SPRING-R	1
35	750-3090-02	LOADING-SPRING-L	1
36	746-0877-02	WASHER	2
37	746-0762-00	WASHER	1
38	746-0712-03	WASHER	1
39	743-1500-10	E-RING	3
40	621-0258-03	LOADING ROLLER	2
41	716-1742-00	SCREW (M2×5)	1
42	716-1704-00	SCREW (M2×7)	1
43	716-1677-00	SCREW (M2×5)	1
44	716-1507-00	SCREW (M2×3)	2
45	622-1072-05	ROLLER SHAFT	1
46	716-1468-00	SCREW (M2×2.5)	2
47	622-1219-01	SHIFT ROLLER	1
48	714-2603-81	SCREW (M2.6×3)	5
49	966-0308-10	CHASSIS ASSY	1
50	714-2003-81	SCREW (M2×3)	8
51	716-1670-00	SCREW (M2×4)	4

■ ELECTRICAL PARTS LIST

Main PWB section (B1)

REF No.	PART No.	DESCRIPTION
IC 301	051-6201-90	LC72146M
IC 501	051-5016-90	TDA7404
IC 502	~~051-0351-83~~ 051-0350-55	NJM4558M
IC 601	051-2031-11	LA4743B
IC 651	051-3261-00	BA4906
IC 801	052-3913-00	MA30620MC-D64FP
IC 803	051-6600-38	CA0008AM
IC 821	051-5403-08	S-80725NT1
IC 852	051-5818-90	BA3834F
Q 104	125-2004-02	RN1402
Q 651	101-1237-00	2SB1237
Q 652	102-2712-00	2SC2712
Q 653	125-0002-02	RN2402
Q 654	125-2004-03	RN1403
Q 701	125-4001-00	XN1504
Q 702	125-4001-00	XN1504
Q 801	102-2712-00	2SC2712
Q 802	100-1162-00	2SA1162
Q 803	100-1162-00	2SA1162
Q 804	125-0002-02	RN2402
Q 805	125-0002-02	RN2402
Q 806	102-2712-00	2SC2712
Q 807	102-2712-00	2SC2712
Q 811	125-2004-02	RN1402
Q 812	100-1298-00	2SA1298
Q 813	125-2004-02	RN1402
Q 816	125-2004-04	RN1404
Q 901	101-1240-00	2SB1240
Q 902	125-2004-06	RN1406
Q 904	103 2012-00	2SD2012
Q 905	125-0002-06	RN2406
Q 906	125-2004-06	RN1406
Q 907	125-0002-06	RN2406
Q 908	102-3420-50	2SC3420GR
Q 909	125-2004-06	RN1406
Q 910	125-2004-06	RN1406
Q 911	102-3420-50	2SC3420GR
Q 912	125-0002-06	RN2406
Q 913	125-2004-06	RN1406
Q 951	100-1298-00	2SA1298
Q 952	125-2004-02	RN1402
D 551	001-0376-26	MTZ4.7JB
D 601	001-0592-00	RM4Z
D 602	001-0466-01	S5688G
D 603	001-0466-01	S5688G
D 604	001-0466-01	S5688G
D 605	001-0466-01	S5688G
D 606	001-0466-01	S5688G
D 607	001-0466-01	S5688G
D 608	001-0466-01	S5688G
D 609	001-0466-01	S5688G
D 611	001-0466-01	S5688G

REF No.	PART No.	DESCRIPTION
D 612	001-0466-01	S5688G
D 613	001-0330-00	1SS119
D 614	001-0330-00	1SS119
D 651	001-0330-00	1SS119
D 652	001-0330-00	1SS119
D 801	001-0330-00	1SS119
D 802	001-0330-00	1SS119
D 803	001-0330-00	1SS119
D 805	001-0330-00	1SS119
D 806	001-0376-41	MTZ7.5JB
D 807	001-0376-30	MTZ5.1JC
D 901	001-0466-01	S5688G
D 903	001-0376-47	MTZ9.1JB
D 905	001-0376-47	MTZ9.1JB
D 906	001-0330-00	1SS119
D 907	001-0376-32	MTZ5.6JB
L 101	010-4007-00	AM ANT
L 103	010-2230-38	220 μ H
L 104	010-2230-38	220 μ H
L 105	010-2230-32	68 μ H
L 301	010-2230-38	220 μ H
L 601	010-8020-00	CHOKE
L 801	010-2230-10	1 μ H
L 802	010-2230-14	2.2 μ H
L 951	010-2230-17	5.6 μ H
X 301	061-1066-00	7.2MHz
X 801	~~060-1505-80~~ 060-1505-50	4.5MHz
C 101	176-1801-00	50V 18PF
C 104	178-2232-78	25V 0.022 μ F
C 105	183-4763-32	16V 47 μ F
C 106	183-4763-32	16V 47 μ F
C 107	178-2232-78	25V 0.022 μ F
C 108	178-2232-78	25V 0.022 μ F
C 109	183-1073-32	16V 100 μ F
C 110	178-6822-78	50V 6800PF
C 111	178-1032-78	25V 0.01 μ F
C 112	183-1053-62	50V 1 μ F
C 113	176-1011-00	50V 100PF
C 115	176-1007-00	50V 10PF
C 116	178-2232-78	25V 0.022 μ F
C 117	178-2232-78	25V 0.022 μ F
C 118	178-1022-78	50V 1000PF
C 120	178-1032-78	25V 0.01 μ F
C 121	178-1032-78	25V 0.01 μ F
C 122	178-4732-78	25V 0.047 μ F
C 123	178-4732-78	25V 0.047 μ F
C 124	178-4732-78	25V 0.047 μ F
C 125	178-1042-78	25V 0.1 μ F
C 126	178-1022-78	50V 1000PF
C 127	178-1022-78	50V 1000PF
C 128	178-1022-78	50V 1000PF
C 129	178-1022-78	50V 1000PF

REF No.	PART No.	DESCRIPTION
C 130	176-1011-00	50V 100PF
C 131	176-1011-00	50V 100PF
C 132	176-1011-00	50V 100PF
C 134	178-1022-78	50V 1000PF
C 135	172-1041-15	50V 0.1 μ F
C 136	176-4711-00	50V 470PF
C 137	176-4711-00	50V 470PF
C 138	183-1073-32	16V 100 μ F
C 139	183-4763-32	16V 47 μ F
C 301	178-2232-78	25V 0.022 μ F
C 302	183-4763-32	16V 47 μ F
C 303	176-3311-00	50V 330PF
C 304	176-1011-00	50V 100PF
C 305	176-1011-00	50V 100PF
C 306	178-1042-78	25V 0.1 μ F
C 307	183-1053-62	50V 1 μ F
C 310	176-1501-00	50V 15PF
C 311	176-1501-00	50V 15PF
C 501	178-2732-78	25V 0.027 μ F
C 502	178-2732-78	25V 0.027 μ F
C 503	183-1053-62	50V 1 μ F
C 504	183-1053-62	50V 1 μ F
C 505	183-1053-62	50V 1 μ F
C 506	183-1053-62	50V 1 μ F
C 507	183-1053-62	50V 1 μ F
C 508	183-1053-62	50V 1 μ F
C 509	178-1032-78	25V 0.01 μ F
C 510	178-1032-78	25V 0.01 μ F
C 511	183-1053-62	50V 1 μ F
C 512	183-1053-62	50V 1 μ F
C 513	183-1073-32	16V 100 μ F
C 514	183-1073-32	16V 100 μ F
C 515	178-1032-78	25V 0.01 μ F
C 518	178-1222-78	50V 1200PF
C 519	178-1222-78	50V 1200PF
C 551	183-1063-32	16V 10 μ F
C 552	183-1063-32	16V 10 μ F
C 553	183-1063-32	16V 10 μ F
C 554	183-1063-32	16V 10 μ F
C 555	176-1201-00	50V 12PF
C 556	176-1201-00	50V 12PF
C 557	176-1201-00	50V 12PF
C 558	176-1201-00	50V 12PF
C 559	183-4763-32	16V 47 μ F
C 601	183-4743-62	50V 0.47 μ F
C 602	183-4743-62	50V 0.47 μ F
C 603	183-4743-62	50V 0.47 μ F
C 604	183-4743-62	50V 0.47 μ F
C 605	183-4763-32	16V 47 μ F
C 606	183-2263-32	16V 22 μ F
C 607	172-1041-15	50V 0.1 μ F
C 608	172-1041-15	50V 0.1 μ F

REF No.	PART No.	DESCRIPTION
C 609	172-1041-15	50V 0.1 μ F
C 610	172-1041-15	50V 0.1 μ F
C 612	172-2231-15	50V 0.022 μ F
C 613	042-0479-00	16V 2200 μ F
C 615	183-3353-62	50V 3.3 μ F
C 616	176-1011-00	50V 100PF
C 651	183-1073-32	16V 100 μ F
C 652	183-1073-32	16V 100 μ F
C 653	183-2263-32	16V 22 μ F
C 701	183-2263-32	16V 22 μ F
C 702	183-2263-32	16V 22 μ F
C 703	183-2263-32	16V 22 μ F
C 704	183-2263-32	16V 22 μ F
C 802	172-1032-15	50V 0.01 μ F
C 803	172-1032-15	50V 0.01 μ F
C 804	183-1063-32	16V 10 μ F
C 805	178-4732-78	25V 0.047 μ F
C 807	178-2232-78	25V 0.022 μ F
C 808	178-1032-78	25V 0.01 μ F
C 809	042-0577-00	6.3V 100 μ F
C 810	042-0576-00	5.5V 0.1F
C 811	176-1011-00	50V 100PF
C 812	183-2263-32	16V 22 μ F
C 818	176-1011-00	50V 100PF
C 819	178-1022-78	50V 1000PF
C 820	176-1007-00	50V 10PF
C 821	176-1011-00	50V 100PF
C 824	178-1022-78	50V 1000PF
C 825	176-1011-00	50V 100PF
C 827	178-1022-78	50V 1000PF
C 829	178-1022-78	50V 1000PF
C 830	178-1022-78	50V 1000PF
C 831	178-1022-78	50V 1000PF
C 832	183-1063-32	16V 10 μ F
C 833	176-2211-00	50V 220PF
C 834	176-2211-00	50V 220PF
C 851	178-1042-78	25V 0.1 μ F
C 852	178-1042-78	25V 0.1 μ F
C 853	178-1042-78	25V 0.1 μ F
C 854	178-1042-78	25V 0.1 μ F
C 855	183-1063-32	16V 10 μ F
C 901	183-1073-32	16V 100 μ F
C 902	183-1063-32	16V 10 μ F
C 903	178-1042-78	25V 0.1 μ F
C 904	183-2263-32	16V 22 μ F
C 905	183-1063-32	16V 10 μ F
C 907	183-4763-32	16V 47 μ F
C 908	178-4732-78	25V 0.047 μ F
C 931	176-1011-00	50V 100PF
C 933	176-1011-00	50V 100PF
C 934	176-1011-00	50V 100PF
C 951	178-2232-78	25V 0.022 μ F

REF No.	PART No.	DESCRIPTION
R 104	117-1031-10	1/10W 10K Ω
R 105	117-1031-10	1/10W 10K Ω
R 106	117-4741-10	1/10W 470K Ω
R 107	117-1021-10	1/10W 1K Ω
R 111	117-1831-10	1/10W 18K Ω
R 301	117-1021-10	1/10W 1K Ω
R 302	117-2221-10	1/10W 2.2K Ω
R 304	117-2221-10	1/10W 2.2K Ω
R 308	117-5631-10	1/10W 56K Ω
R 309	117-8211-10	1/10W 820 Ω
R 310	117-1021-10	1/10W 1K Ω
R 311	117-1021-10	1/10W 1K Ω
R 312	117-1041-10	1/10W 100K Ω
R 313	117-1031-10	1/10W 10K Ω
R 501	117-4721-10	1/10W 4.7K Ω
R 502	117-4721-10	1/10W 4.7K Ω
R 503	117-4721-10	1/10W 4.7K Ω
R 504	117-4721-10	1/10W 4.7K Ω
R 505	117-4721-10	1/10W 4.7K Ω
R 506	117-4721-10	1/10W 4.7K Ω
R 510	117-4721-10	1/10W 4.7K Ω
R 511	117-4721-10	1/10W 4.7K Ω
R 551	117-5131-10	1/10W 51K Ω
R 552	117-5131-10	1/10W 51K Ω
R 553	117-5131-10	1/10W 51K Ω
R 554	117-5131-10	1/10W 51K Ω
R 555	117-2031-10	1/10W 20K Ω
R 556	117-2031-10	1/10W 20K Ω
R 557	117-2031-10	1/10W 20K Ω
R 558	117-2031-10	1/10W 20K Ω
R 559	117-3311-10	1/10W 330 Ω
R 601	117-4721-10	1/10W 4.7K Ω
R 602	117-4721-10	1/10W 4.7K Ω
R 603	117-4721-10	1/10W 4.7K Ω
R 604	117-4721-10	1/10W 4.7K Ω
R 605	117-1231-10	1/10W 12K Ω
R 606	117-1031-10	1/10W 10K Ω
R 607	117-1821-10	1/10W 1.8K Ω
R 651	117-4731-10	1/10W 47K Ω
R 652	111-1021-91	1/4WSS 1K Ω
R 653	117-1031-10	1/10W 10K Ω
R 654	117-2231-10	1/10W 22K Ω
R 655	117-4721-10	1/10W 4.7K Ω
R 656	117-1021-10	1/10W 1K Ω
R 657	117-2231-10	1/10W 22K Ω
R 658	117-1031-10	1/10W 10K Ω
R 701	117-1021-10	1/10W 1K Ω
R 702	117-2231-10	1/10W 22K Ω
R 703	117-2231-10	1/10W 22K Ω
R 704	117-3311-10	1/10W 330 Ω
R 705	117-3311-10	1/10W 330 Ω
R 706	117-1021-10	1/10W 1K Ω

REF No.	PART No.	DESCRIPTION
R 707	117-2231-10	1/10W 22K Ω
R 708	117-2231-10	1/10W 22K Ω
R 709	117-3311-10	1/10W 330 Ω
R 710	117-3311-10	1/10W 330 Ω
R 801	117-4721-10	1/10W 4.7K Ω
R 802	117-1031-10	1/10W 10K Ω
R 803	117-4721-10	1/10W 4.7K Ω
R 804	117-4731-10	1/10W 47K Ω
R 805	117-4741-10	1/10W 470K Ω
R 806	117-1531-10	1/10W 15K Ω
R 807	117-1031-10	1/10W 10K Ω
R 808	117-3311-10	1/10W 330 Ω
R 809	117-3321-10	1/10W 3.3K Ω
R 810	117-1531-10	1/10W 15K Ω
R 811	117-2231-10	1/10W 22K Ω
R 812	117-1041-10	1/10W 100K Ω
R 813	117-1041-10	1/10W 100K Ω
R 814	117-5621-10	1/10W 5.6K Ω
R 816	117-4731-10	1/10W 47K Ω
R 817	117-2231-10	1/10W 22K Ω
R 821	117-1031-10	1/10W 10K Ω
R 822	111-1221-91	1/4WSS 1.2K Ω
R 823	117-2231-10	1/10W 22K Ω
R 824	117-1041-10	1/10W 100K Ω
R 826	117-3321-10	1/10W 3.3K Ω
R 827	111-1811-91	1/4WSS 180 Ω
R 828	111-1811-91	1/4WSS 180 Ω
R 829	111-6801-91	1/4WSS 68 Ω
R 831	117-1031-10	1/10W 10K Ω
R 833	111-1031-91	1/4WSS 10K Ω
R 834	117-3321-10	1/10W 3.3K Ω
R 835	117-3321-10	1/10W 3.3K Ω
R 836	117-3321-10	1/10W 3.3K Ω
R 837	117-1011-10	1/10W 100 Ω
R 851	117-1041-10	1/10W 100K Ω
R 852	117-2231-10	1/10W 22K Ω
R 854	117-2231-10	1/10W 22K Ω
R 901	117-1031-10	1/10W 10K Ω
R 902	111-4711-91	1/4WSS 470 Ω
R 903	111-4711-91	1/4WSS 470 Ω
R 904	111-3311-91	1/4WSS 330 Ω
R 905	111-3311-91	1/4WSS 330 Ω
R 908	117-4731-10	1/10W 47K Ω
R 909	117-1041-10	1/10W 100K Ω
R 910	117-1041-10	1/10W 100K Ω
R 911	117-1041-10	1/10W 100K Ω
R 914	117-1041-10	1/10W 100K Ω
R 915	117-1031-10	1/10W 10K Ω
R 916	117-1031-10	1/10W 10K Ω
R 917	117-1031-10	1/10W 10K Ω
R 918	117-1031-10	1/10W 10K Ω
R 919	117-1031-10	1/10W 10K Ω

REF No.	PART No.	DESCRIPTION
R 922	117-2231-10	1/10W 22K Ω
R 923	111-5611-91	1/4WSS 560 Ω
R 951	117-1031-10	1/10W 10K Ω
R 952	111-1221-91	1/4WSS 1.2K Ω
R 953	111-4711-91	1/4WSS 470 Ω
R 954	111-4711-91	1/4WSS 470 Ω

REF No.	PART No.	DESCRIPTION
R 955	117-1031-10	1/10W 10K Ω
SUP101	060-0122-20	DSP-201
CN 101	076-0515-22	PLUG
CN 102	074-1214-01	OUTLET SOCKET
CN 103	074-1186-26	OUTLET SOCKET
CN 104	074-0834-22	OUTLET SOCKET

REF No.	PART No.	DESCRIPTION
CN 105	074-1194-00	OUTLET SOCKET
CN 106	076-0353-17	PLUG
CN 107	074-0881-17	OUTLET SOCKET
CN 108	076-0535-07	PLUG

Switch PWB section (B2)

REF No.	PART No.	DESCRIPTION
IC 701	051-6029-00	μ PD16306B
IC 702	051-6618-08	μ PD66006F
D 701	001-0516-00	MA111
D 702	001-0516-00	MA111
D 703	001-0516-00	MA111
D 704	001-0516-00	MA111
D 705	001-0516-00	MA111
D 706	001-7024-02	GL8EG42
L 701	010-2134-78	220 μ H
C 701	043-0265-90	1500PF
C 702	176-1011-50	50V 100PF
C 703	043-0318-90	5600PF
C 704	043-0318-90	5600PF
C 705	043-0318-90	5600PF
C 706	043-0318-90	5600PF
C 707	043-0318-90	5600PF
C 708	043-0318-90	5600PF
C 709	043-0318-90	5600PF
C 710	043-0318-90	5600PF
C 711	043-0318-90	5600PF
C 712	043-0318-90	5600PF
C 713	043-0318-90	5600PF
C 714	043-0318-90	5600PF
C 715	043-0318-90	5600PF
C 716	043-0318-90	5600PF
C 717	043-0318-90	5600PF
C 718	043-0318-90	5600PF
C 719	043-0318-90	5600PF
C 720	043-0318-90	5600PF
C 721	043-0265-90	1500PF

REF No.	PART No.	DESCRIPTION
C 722	176-1011-50	50V 100PF
C 723	178-1042-78	25V 0.1 μ F
C 724	176-4711-50	50V 470PF
C 725	183-4763-17	6.3V 47 μ F
C 726	178-1022-78	25V 1000PF
C 727	178-1022-78	25V 1000PF
C 728	178-1042-78	25V 0.1 μ F
R 701	117-1031-10	1/10W 10K Ω
R 702	117-1031-10	1/10W 10K Ω
R 703	117-1031-10	1/10W 10K Ω
R 704	117-1031-10	1/10W 10K Ω
R 705	117-1031-10	1/10W 10K Ω
R 706	117-1041-10	1/10W 100K Ω
R 707	117-1041-10	1/10W 100K Ω
R 708	117-1041-10	1/10W 100K Ω
R 709	117-1041-10	1/10W 100K Ω
R 710	117-1041-10	1/10W 100K Ω
R 711	117-1031-10	1/10W 10K Ω
R 712	117-8201-10	1/10W 82 Ω
R 713	117-2231-10	1/10W 22 Ω
R 714	117-1521-10	1/10W 1.5K Ω
R 715	117-1521-10	1/10W 1.5K Ω
R 716	117-1021-10	1/10W 1K Ω
R 717	117-2421-10	1/10W 2.4K Ω
R 718	117-2021-10	1/10W 2K Ω
CN 701	074-1105-22	OUTLET SOCKET
PL 701	017-0444-00	14V 50MA
PL 702	017-0444-00	14V 50MA
PL 703	017-0444-00	14V 50MA
PL 704	017-0444-00	14V 50MA

REF No.	PART No.	DESCRIPTION
PL 705	017-0444-00	14V 50MA
PL 706	017-0444-00	14V 50MA
S 701	013-6001-50	SKQCAB
S 702	013-6001-50	SKQCAB
S 703	013-6001-50	SKQCAB
S 704	013-6001-50	SKQCAB
S 705	013-6001-50	SKQCAB
S 706	013-6001-50	SKQCAB
S 707	013-6305-00	SKQMAH
S 708	013-6001-50	SKQCAB
S 709	013-6001-50	SKQCAB
S 710	013-6001-50	SKQCAB
S 711	013-6001-50	SKQCAB
S 712	013-6001-50	SKQCAB
S 713	013-6001-50	SKQCAB
S 714	013-6001-50	SKQCAB
S 715	013-6001-50	SKQCAB
S 716	013-6001-50	SKQCAB
S 717	013-6001-50	SKQCAB
S 718	013-6001-50	SKQCAB
S 719	013-6001-50	SKQCAB
S 720	013-6001-50	SKQCAB
S 721	013-6001-50	SKQCAB
S 722	013-6001-50	SKQCAB
S 723	013-6001-50	SKQCAB
S 724	013-6001-50	SKQCAB
S 725	013-6001-50	SKQCAB
S 726	013-6001-50	SKQCAB
IR 701	060-4005-00	IR-RECEIVER

D/D CON PWB section (B3)

REF No.	PART No.	DESCRIPTION
Q 101	102-3303-00	2SC3303
Q 102	102-3303-00	2SC3303
Q 103	~~102~~ 192-3669-00	2SC3669
Q 104	~~102~~ 192-3669-00	2SC3669
Q 201	102-3420-50	2SC3420GR
Q 202	102-3420-50	2SC3420GR
D 101	001-2002-00	AL01Z
D 102	001-2002-00	AL01Z
D 103	001-2002-00	AL01Z
D 104	001-2002-00	AL01Z
D 201	001-0347-56	MA4120M
D 202	001-0347-47	MA4091M

REF No.	PART No.	DESCRIPTION
L 101	010-2272-07	RCH110-471K
L 102	010-2272-08	RCH110-821K
L 103	007-1157-00	EE-13
L 104	007-1156-00	EI-16
L 201	010-2272-03	RCH110-101K
C 101	042-9034-00	63V 47 μ F
C 102	043-0324-50	6800PF
C 103	043-0324-02	0.022 μ F
C 104	042-0393-00	35V 100 μ F
C 105	042-0393-00	35V 100 μ F
C 201	172-1041-15	50V 0.1 μ F
C 202	172-1041-15	50V 0.1 μ F

REF No.	PART No.	DESCRIPTION
C 203	042-0617-00	63V 330 μ F
C 204	184-4743-32	16V 470 μ F
R 101	111-2731-91	1/4W 27K Ω
R 102	117-3621-10	1/10W 3.6K Ω
R 103	117-3621-10	1/10W 3.6K Ω
R 104	117-8221-10	1/10W 8.2K Ω
R 201	111-3311-91	1/4W 330 Ω
R 202	111-3311-91	1/4W 330 Ω
CN 101	074-0811-07	OUTLET SOCKET
CN 201	076-0351-09	PLUG

Tape mechanism Side PWB section (B4)

REF No.	PART No.	DESCRIPTION
C 1	175-3311-00	330pF CH
C 2	175-3311-00	330pF CH
C 3	175-3311-00	330pF CH
C 4	175-3311-00	330pF CH
C 5	183-4763-11	6.3V 47 μ F
C 6	042-0552-02	10V 68 μ F
C 7	042-0552-02	10V 68 μ F
C 8	173-1231-10	0.012 μ F J
C 9	173-1231-10	0.012 μ F J
C 10	183-4753-51	35V 4.7 μ F
C 11	183-1043-61	50V 0.1 μ F
C 12	175-5611-00	560pF CH

REF No.	PART No.	DESCRIPTION
C 13	183-4743-61	50V 0.47 μ F
C 14	183-2263-31	16V 22 μ F
C 15	183-4753-51	35V 4.7 μ F
C 16	183-4753-51	35V 4.7 μ F
IC 1	051-1546-10	BA3430S
J 1	074-0881-08	8P
R 1	111-1241-91	1/4WS 120K Ω
R 2	111-1241-91	1/4WS 120K Ω
R 3	111-1241-91	1/4WS 120K Ω
R 4	111-1241-91	1/4WS 120K Ω
R 5	116-1011-10	1/8W 100 Ω
R 6	116-1011-10	1/8W 100 Ω

REF No.	PART No.	DESCRIPTION
R 7	117-3341-10	1/10W 330K Ω
R 8	117-1131-10	1/10W 11K Ω
R 9	117-1531-10	1/10W 15K Ω
R 10	117-1531-10	1/10W 15K Ω
R 11	117-1131-10	1/10W 11K Ω
R 12	117-3341-10	1/10W 330K Ω
R 13	117-1811-10	1/10W 180 Ω
R 14	117-8211-10	1/10W 820 Ω
R 15	116-2231-10	1/8W 22K Ω
R 16	117-1031-10	1/10W 10K Ω
R 17	117-1031-10	1/10W 10K Ω

Tape mechanism Rear PWB section (B5)

REF No.	PART No.	DESCRIPTION
C 102	178-1042-78	0.1 μ F
C 103	163-4763-30	16V 47 μ F
C 107	163-1053-60	50V 1 μ F
C 108	163-1053-60	50V 1 μ F
C 109	163-4763-30	16V 47 μ F
C 110	163-2263-30	16V 22 μ F
C 111	043-0296-50	0.1 μ F
C 112	043-0296-50	0.1 μ F

REF No.	PART No.	DESCRIPTION
C 113	163-4753-50	35V 4.7 μ F
C 116	163-4763-30	16V 47 μ F
IC 101	051-5202-00	CCCAX1552M
IC 102	051-1014-05	TA7291F
P 101	076-0353-08	8P
Q 107	125-2004-03	RN1403
R 101	117-1831-10	1/10W 18K Ω
R 102	117-1031-10	1/10W 10K Ω

REF No.	PART No.	DESCRIPTION
R 103	117-2221-10	1/10W 2.2K Ω
R 105	117-1031-10	1/10W 10K Ω
R 106	117-1031-10	1/10W 10K Ω
R 107	116-2711-10	1/8WS 270 Ω
S 101	013-3906-00	STMR17
VR 101	012-4318-06	10K Ω VR
VR 102	012-4318-06	10K Ω VR

Tape mechanism Bottom PWB section (B6)

REF No.	PART No.	DESCRIPTION
REF301	051-1776-00	NJL5801K-C

REF No.	PART No.	DESCRIPTION
SW 301	013-3953-01	SPPB32

REF No.	PART No.	DESCRIPTION
SW 302	013-3951-00	HMW0605

CD mechanism section (B7)

REF No.	PART No.	DESCRIPTION
C1	163-1073-10	6.3V 100 μ F
C3	178-1042-78	0.1 μ F
C4	178-2222-78	2200pF
C5	178-1042-78	0.1 μ F
C6	178-1042-78	0.1 μ F
C7	178-1042-78	0.1 μ F
C8	176-1501-00	15pF CH
C9	176-1501-00	15pF CH
C10	176-1201-00	12pF CH
C11	178-1042-78	0.1 μ F
C13	178-1042-78	0.1 μ F
C14	178-1042-78	0.1 μ F
C15	178-1042-78	0.1 μ F
C16	178-1042-78	0.1 μ F
C17	163-1073-31	16V 100 μ F
C18	176-4701-00	47pF CH
C19	178-1532-78	0.015 μ F
C20	178-1032-78	0.01 μ F
C21	178-2722-78	2700pF
C22	178-4722-78	4700pF
C23	178-1042-78	0.1 μ F
C24	178-1042-78	0.1 μ F
C25	178-1042-78	0.1 μ F
C26	178-4712-78	470pF
C27	178-4712-78	470pF
C28	178-4732-78	0.047 μ F
C29	178-4732-78	0.047 μ F
C30	178-4732-78	0.047 μ F
C31	178-4732-78	0.047 μ F
C32	163-4763-05	4V 47 μ F
C33	163-4763-05	4V 47 μ F
C34	176-1801-00	18pF CH
C35	176-6097-00	6pF CH

REF No.	PART No.	DESCRIPTION
C36	176-6801-00	68pF CH
C37	176-2201-00	22pF CH
C38	178-1042-78	0.1 μ F
C39	163-4763-05	4V 47 μ F
C44	178-2242-78	0.22 μ F
C45	178-2242-78	0.22 μ F
C46	163-4763-10	6.3V 47 μ F
C47	178-8222-78	8200pF
C48	178-1042-78	0.1 μ F
C50	163-1073-10	6.3V 100 μ F
C51	178-1042-78	0.1 μ F
C52	178-2232-78	0.022 μ F
C54	176-2201-00	22pF CH
C61	178-1042-78	0.1 μ F
C63	178-1042-78	0.1 μ F
C64	178-1042-78	0.1 μ F
C65	178-1042-78	0.1 μ F
D4	001-0516-00	MA111
IC1	051-5704-00	TA2096FN
IC2	051-6342-00	TC9462F
IC3	051-6045-08	BA5984FP
J1	074-1138-66	16P
J2	074-1138-06	6P
L1	010-2155-93	10 μ H
L3	010-2199-74	10 μ H J
Q1	101-1188-50	2SB1188PQR
R1	117-2211-10	1/10W 220 Ω
R2	117-2211-10	1/10W 220 Ω
R3	117-5611-10	1/10W 560 Ω
R4	117-5611-10	1/10W 560 Ω
R5	117-4711-10	1/10W 470 Ω
R6	117-3311-10	1/10W 330 Ω
R7	117-4721-10	1/10W 4.7K Ω

REF No.	PART No.	DESCRIPTION
R8	117-1041-10	1/10W 100K Ω
R9	117-1031-10	1/10W 10K Ω
R10	117-4731-10	1/10W 47K Ω
R12	117-4741-10	1/10W 470K Ω
R13	117-3331-10	1/10W 33K Ω
R14	117-3321-10	1/10W 3.3K Ω
R15	117-1031-10	1/10W 10K Ω
R16	117-3321-10	1/10W 3.3K Ω
R17	117-3321-10	1/10W 3.3K Ω
R18	117-3321-10	1/10W 3.3K Ω
R19	117-3321-10	1/10W 3.3K Ω
R20	117-3321-10	1/10W 3.3K Ω
R21	117-2221-10	1/10W 2.2K Ω
R22	117-8211-10	1/10W 820K Ω
R23	117-9131-10	1/10W 91K Ω
R24	117-1041-10	1/10W 100K Ω
R25	117-1041-10	1/10W 100K Ω
R26	117-1841-10	1/10W 180K Ω
R27	117-1841-10	1/10W 180K Ω
R28	117-2211-10	1/10W 220 Ω
R29	117-2201-10	1/10W 22 Ω
R30	117-1041-10	1/10W 100K Ω
R31	117-1041-10	1/10W 100K Ω
R32	117-1041-10	1/10W 100K Ω
R33	117-1041-10	1/10W 100K Ω
R34	117-1041-10	1/10W 100K Ω
R35	117-2241-10	1/10W 220K Ω
R36	117-1041-10	1/10W 100K Ω
R37	117-1041-10	1/10W 100K Ω
R38	117-8231-10	1/10W 82K Ω
R39	117-1841-10	1/10W 180K Ω
X1	061-3500-90	16.920MHz

Sensor PWB section (B8)

REF No.	PART No.	DESCRIPTION
Q101	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
Q102	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
Q103	060-0252-01	PT4850F

Chucking SW PWB section (B9)

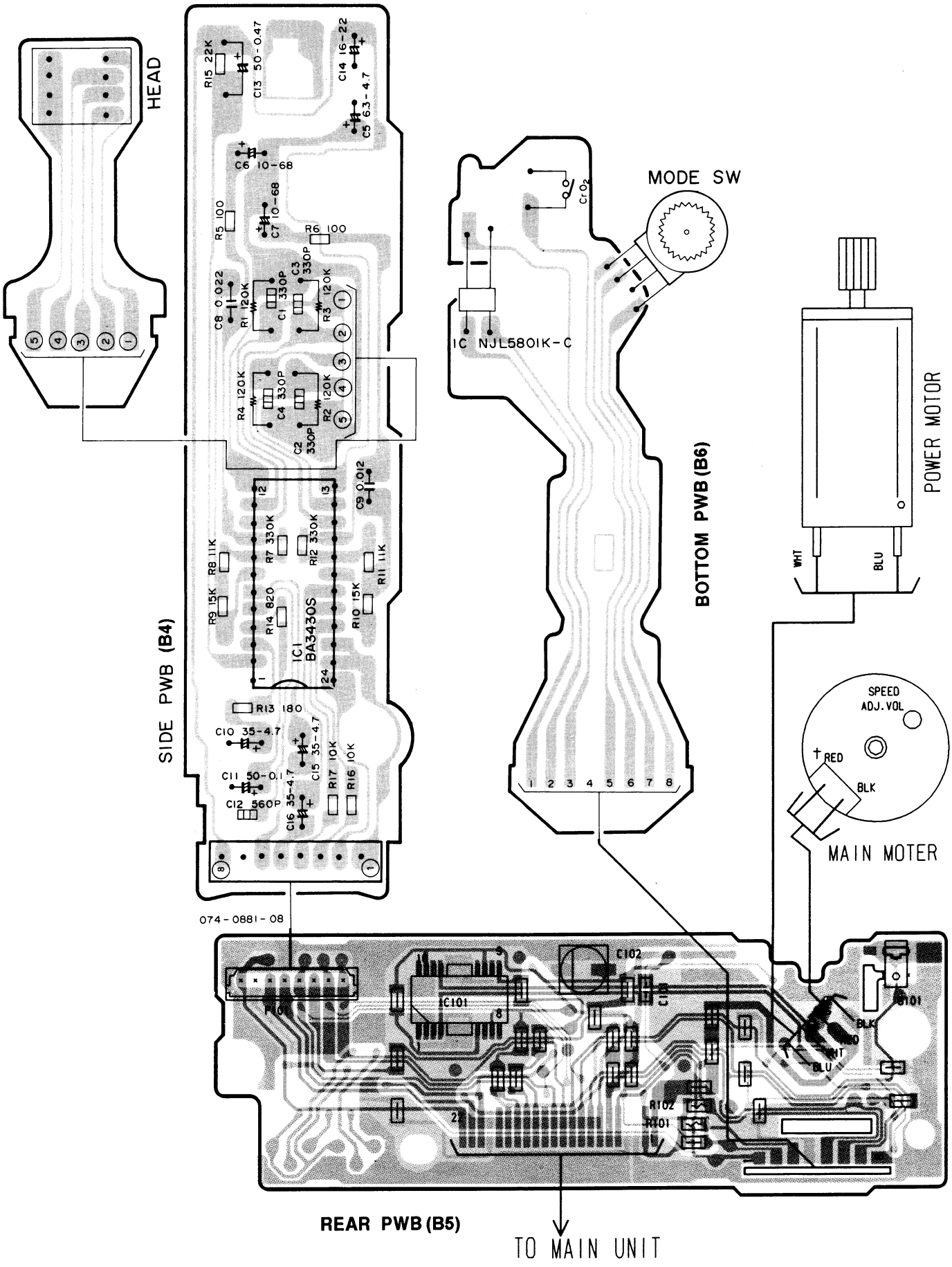
REF No.	PART No.	DESCRIPTION
S2	013-3879-01	SPPB12

Limit SW PWB section (B10)

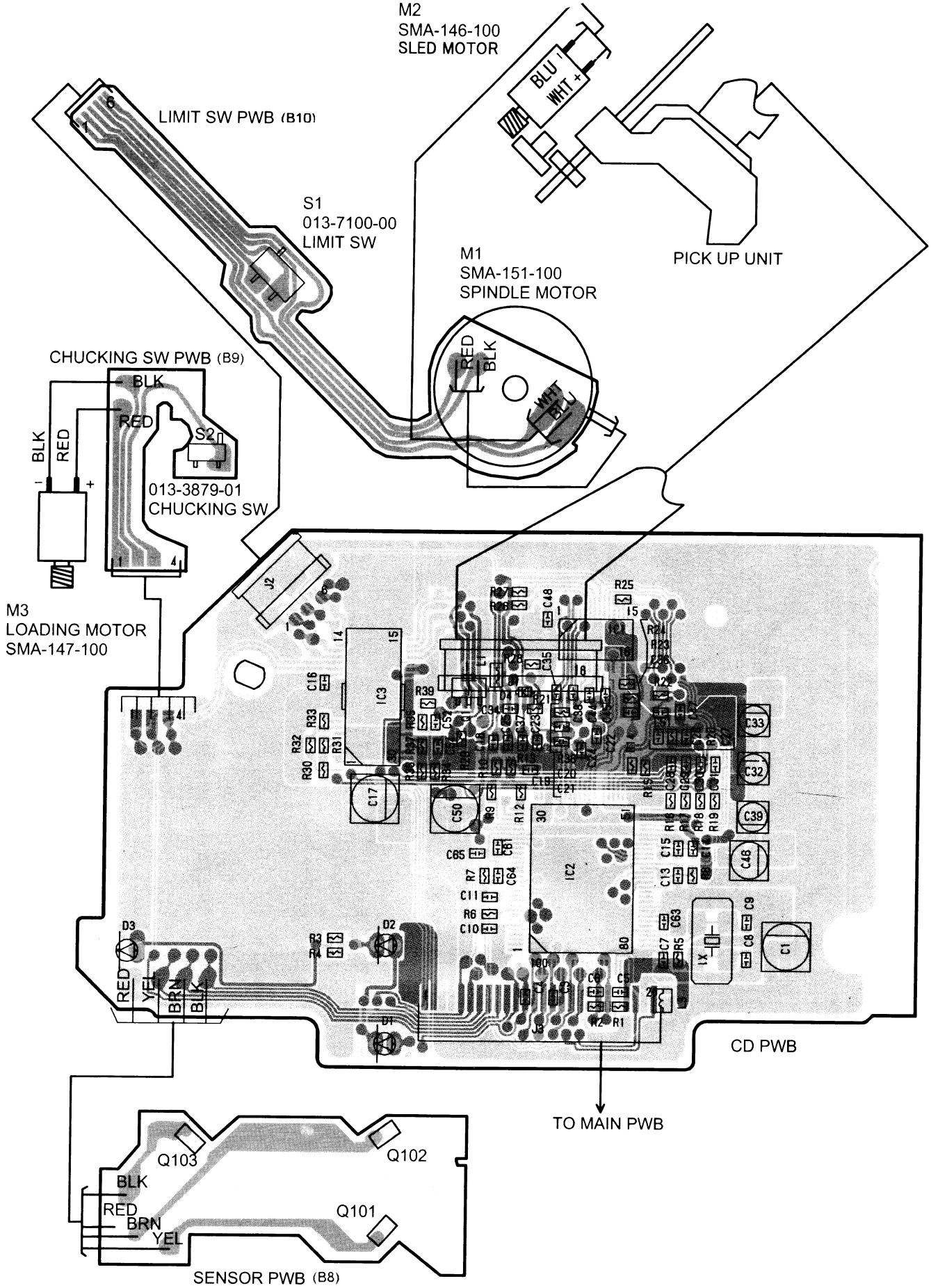
REF No.	PART No.	DESCRIPTION
S1	013-7100-00	SPPB11

■ PRINTED WIRING BOARD:

Tape mechanism section 930-0798-81



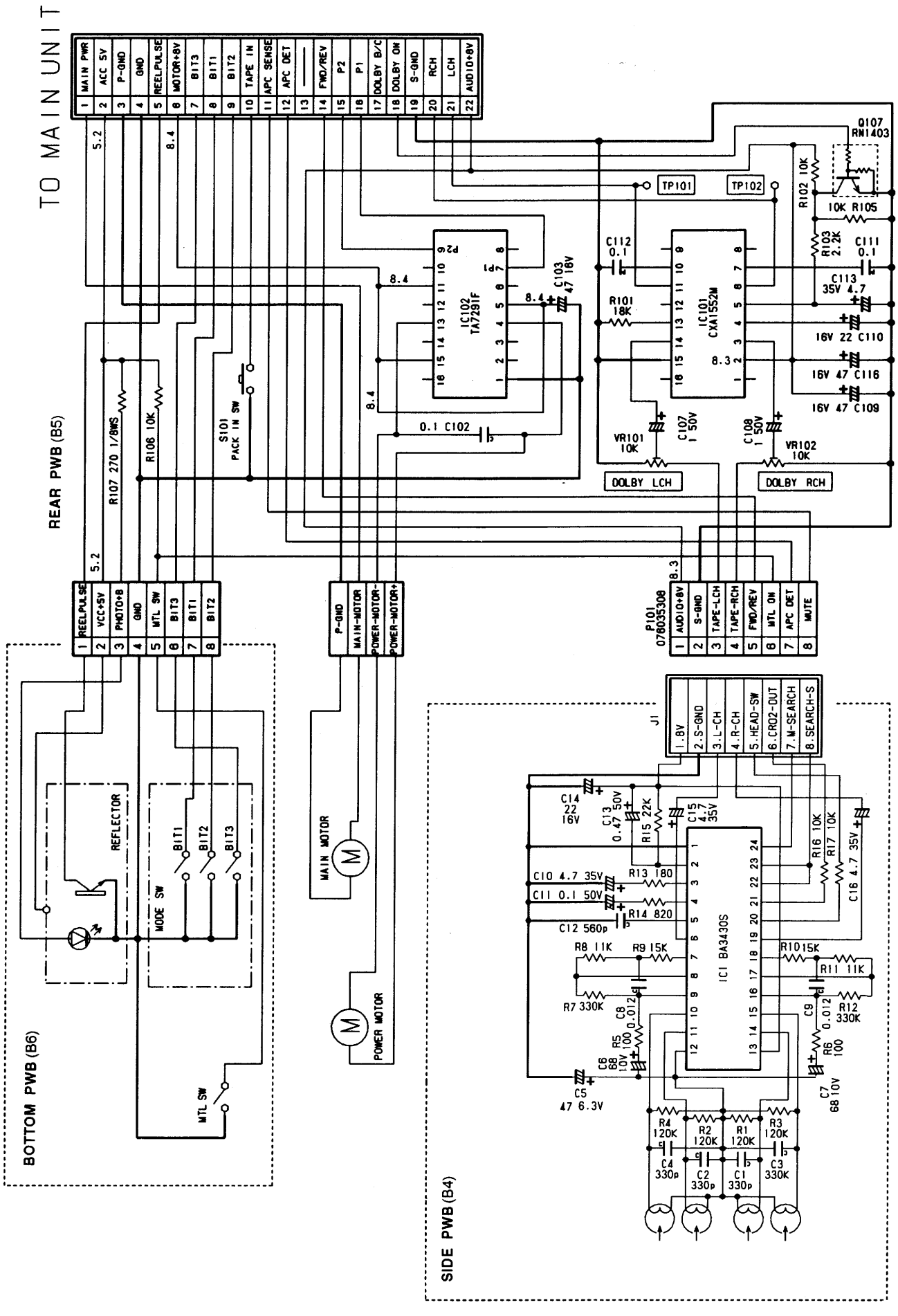
CD mechanism section 929-0092-80(BB-CD)

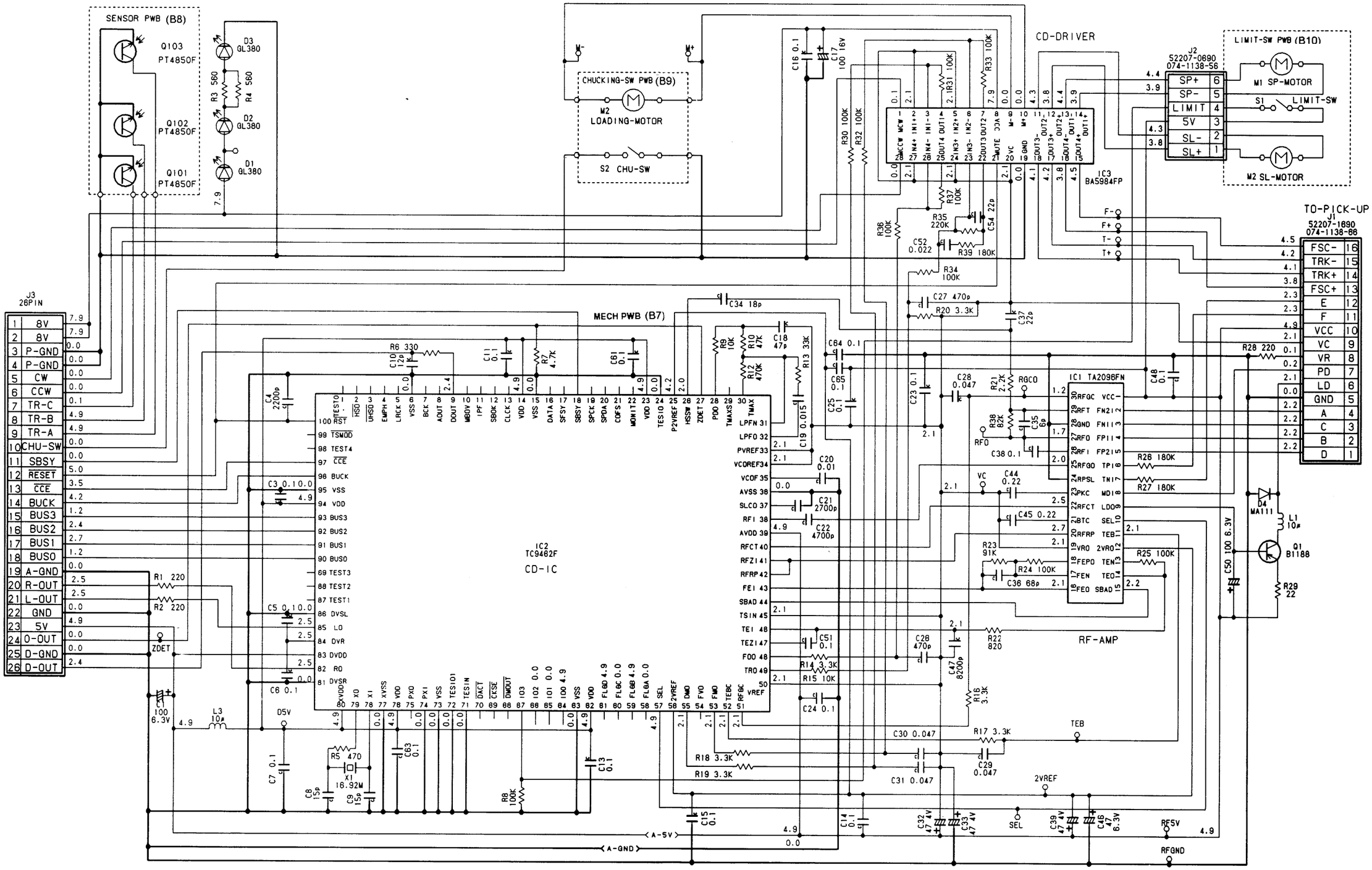


ADX5655z

■ CIRCUIT DIAGRAM:

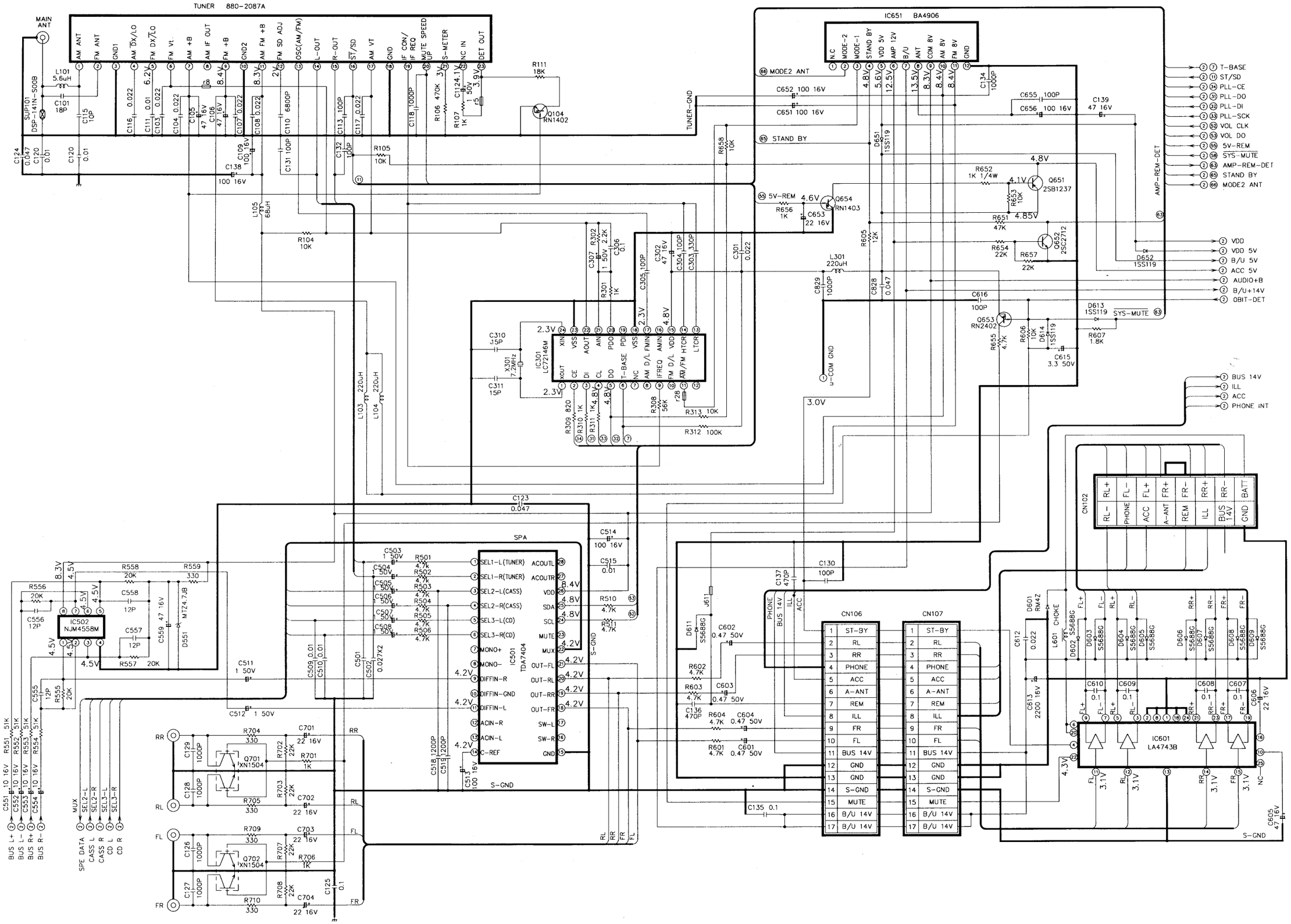
Tape mechanism section 930-0798-81



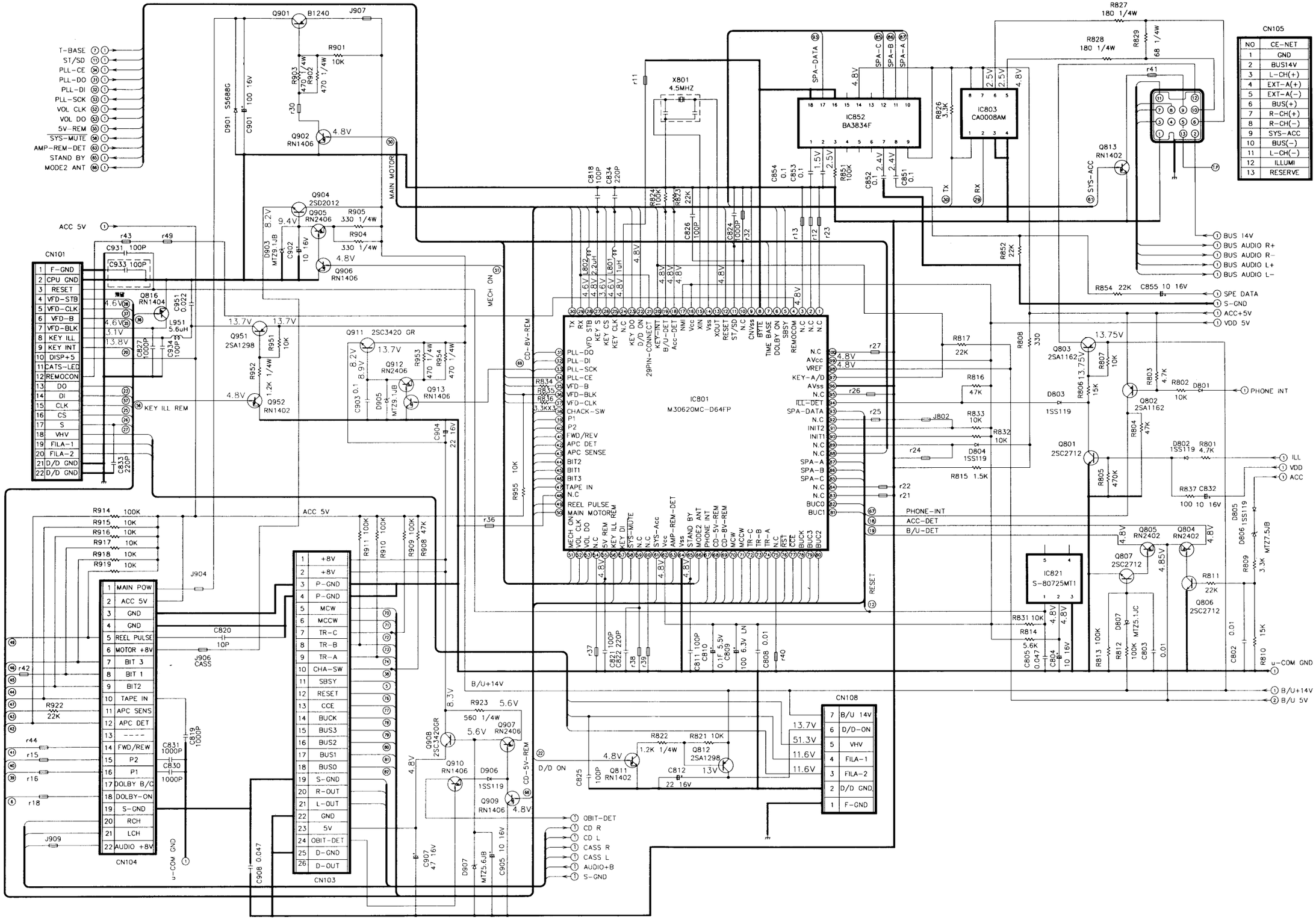

SENSOR PWB (B8)
Q103 PT4850F
Q102 PT4850F
Q101 PT4850F
D3 GL380
D2 GL380
D1 GL380
R3 560
R4 560
CHUCKING-SW PWB (B9)
M2 LOADING-MOTOR
S2 CHU-SW
CD-DRIVER
IC3 BA5984FP
LIMIT-SW PWB (B10)
J2 52207-0690 074-1138-56
SP+
SP-
LIMIT
5V
SL-
SL+
M1 SP-MOTOR
S1 LIMIT-SW
M2 SL-MOTOR
TO-PICK-UP
J1 52207-1690 074-1138-66
FSC-
TRK-
TRK+
FSC+
E
F
VCC
VC
VR
PD
LD
GND
A
C
B
D
F-
F+
T-
T+
J3 26PIN
8V
P-GND
CW
CCW
TR-C
TR-B
TR-A
CHU-SW
SBSY
RESET
CCE
BUCK
BUS3
BUS2
BUS1
BUS0
A-GND
R-OUT
L-OUT
GND
5V
O-OUT
D-GND
D-OUT
MECH PWB (B7)
IC2 TC9462F
CD-IC
IC1 TA2098FN
RF-AMP
TEB
2VREF
SEL
RFGND
A-5V
A-GND
D5V
ZDET
X1 16.92M
D4 MA111
Q1 B1188

■ CIRCUIT DIAGRAM:

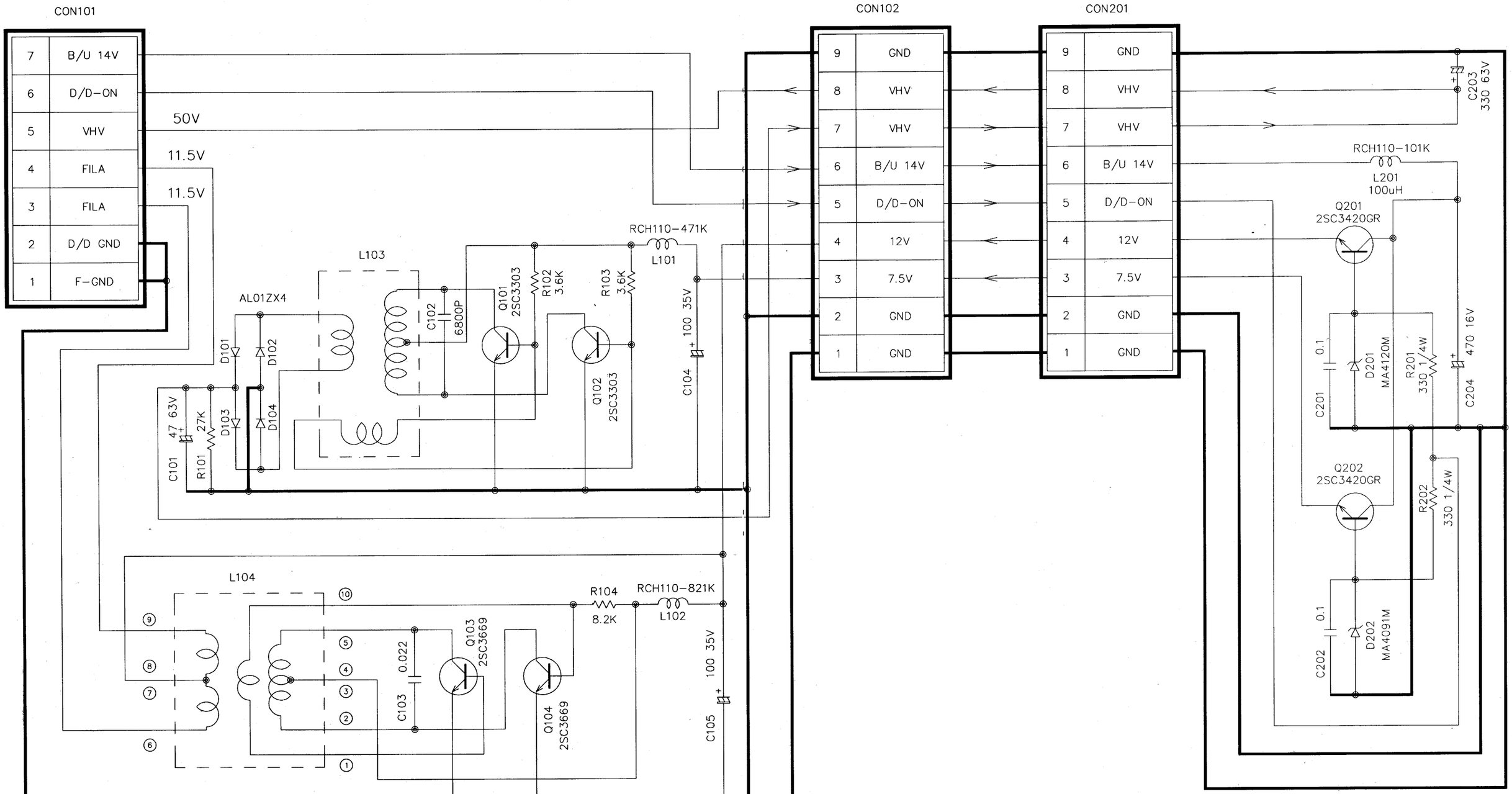
Main PWB (B1) section(1/2)



Main PWB (B1) section(2/2)



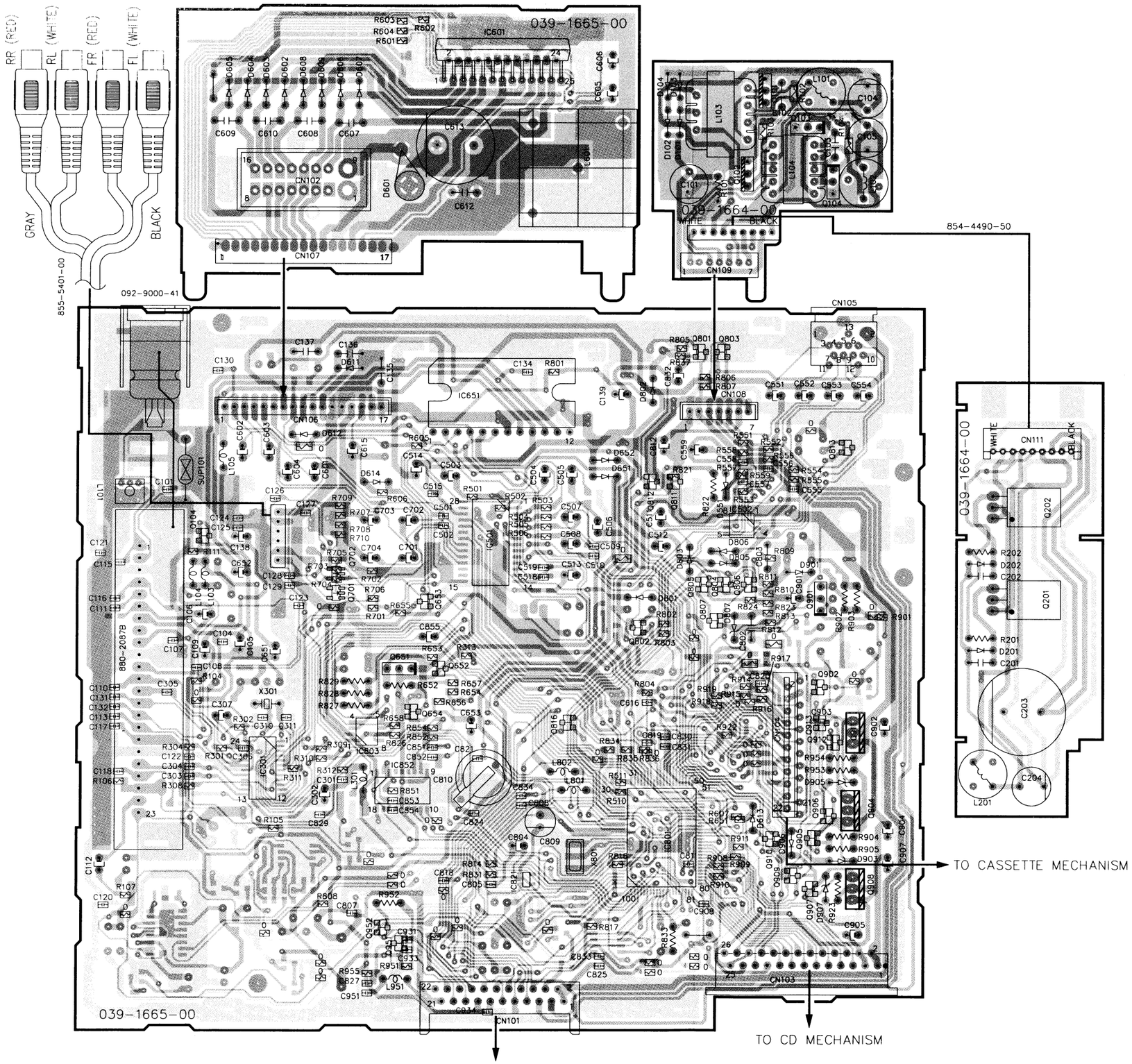
D/D CON PWB (B3) section

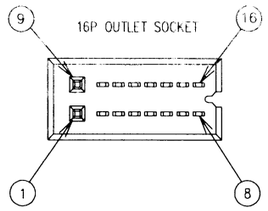


■ PRINTED WIRING BOARD:

Main PWB (B1) section

D/D CON PWB (B3) section





CONNECTOR

NO	CONNECTIONS
1	GND
2	———
3	ILLUMINATION
4	REMOTE
5	AUTO ANTENNA
6	ACC
7	PHONE
8	SP R/L(−)
9	BACK UP
10	SP R/R(−)
11	SP R/R(+)
12	SP F/R(−)
13	SP F/R(+)
14	SP F/L(+)
15	SP F/L(−)
16	SP R/L(+)

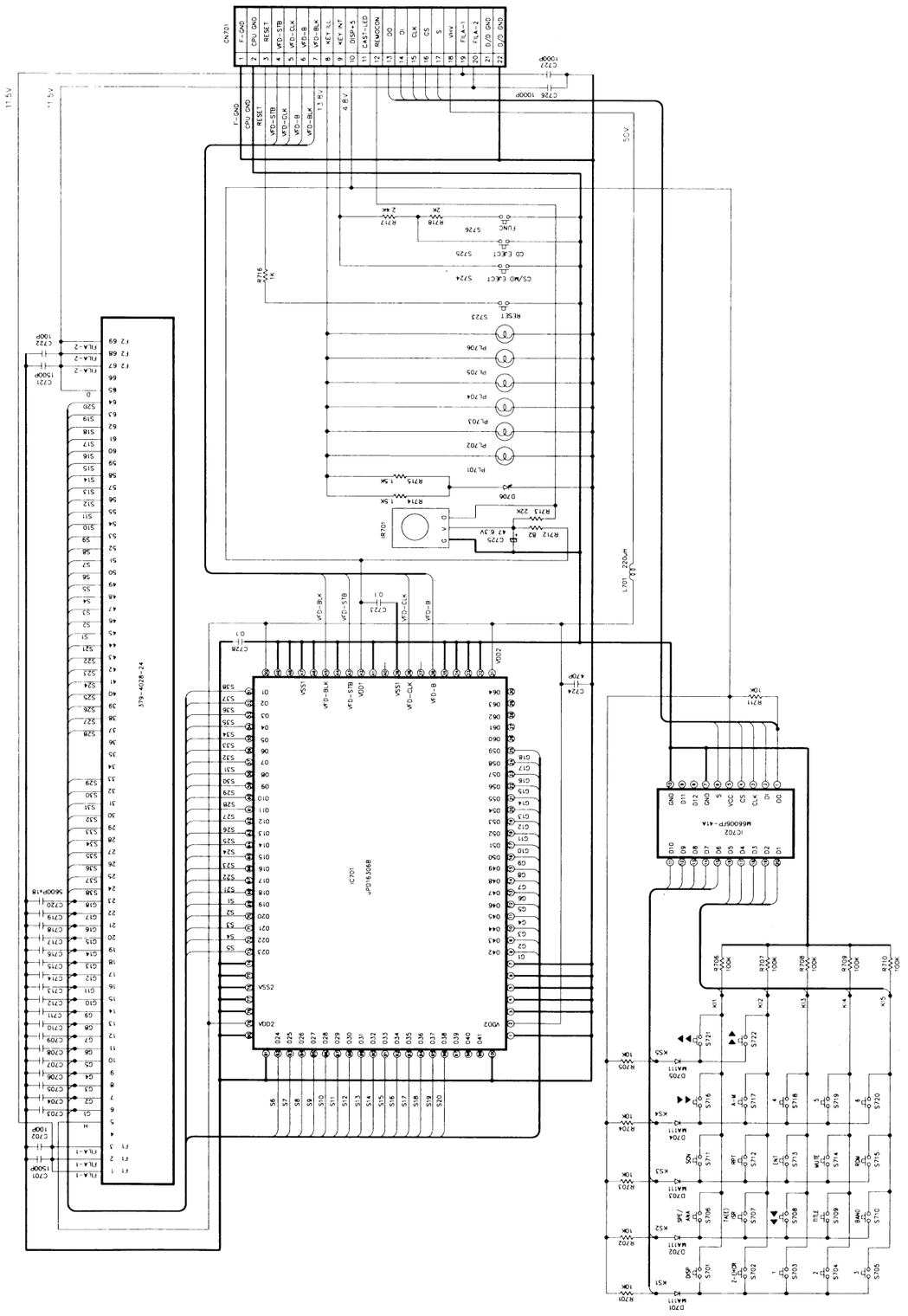
13P DIN (CE-NET)

CE-NET LINE

NO	CONNECTIONS
1	GND
2	BUS 14V
3	L-CH (+)
4	EXT AUDIO (+)
5	EXT AUDIO (−)
6	BUS (+)
7	R-CH (+)
8	R-CH (−)
9	SYS-ACC
10	BUS (−)
11	L-CH (−)
12	ILLUMI +
13	RESERVE

■ CIRCUIT DIAGRAM:

Switch PWB (B2) section



■ PRINTED WIRING BOARD:

Switch PWB (B2) section