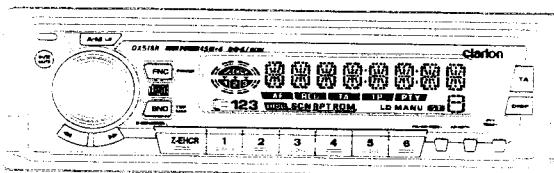


Service Manual



RDS-EON FM/MW/LW Radio CD Combination With CD Changer Control

Model **DX518R**
 (PE-2387E)

■ SPECIFICATIONS

Radio section

Tuning system: PLL synthesizer tuner
 Receiving frequencies: FM 87.5MHz to 108MHz
 (0.05MHz steps)
 MW 531kHz to 1602kHz
 (9kHz steps)
 LW 153kHz to 279kHz
 (3kHz steps)

CD Player section

System: Compact disc digital audio system
 Frequency response: 5Hz to 20kHz(± 1 dB)
 Signal to noise ratio: 100dB(1kHz) IHF-A
 Dynamic range: 95dB(1kHz)
 Distortion: 0.01%

General

Max. power output: 45W x 4
 Power supply voltage: 14.4V DC
 (10.8V to 15.6V allowable),
 negative ground
 Power consumption: Less than 15A
 Speaker impedance: 4 Ω (4 Ω to 8 Ω allowable)
 Auto antenna rated current:
 500mA or less
 Weight: 1.7kg
 Dimensions(mm): 178(W)x 50(H)x 155(D)

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

■ NOTE

*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.

■ COMPONENTS

PE-2387E-A

Main unit		1
Mounting bracket	300-7742-00	1
DCP case	335-5734-30	1
Escutcheon(OUT-ES)	370-5879-00	1
Parts bag		
Removal key	331-2497-00	2
Cord clamp	335-0833-07	1
Rubber cap	345-3653-20	1
Screw	716-0726-01	1
A-lead(for cellular phone)	850-6681-50	1

■ FEATURES

- 1.RDS-EON Receiver with Controller for MD or CD Changer (6/12 disc)
- 2.CD-Deck with 1-Bit D/A Converter and 8-Times Oversampling
- 3.Fully Detachable Flip Down Control Panel With Large Multi-Colour LC-Display
- 4.High Power 4x 45W Max./4-Channel RCA Line Level 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 problems 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 handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. 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 electricity 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

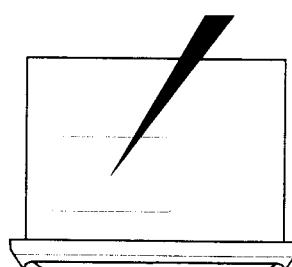
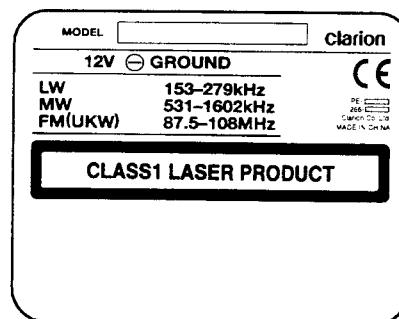
The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropylalcohol to lens paper and wipe the lens gently.

■ CAUTIONS

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUST". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.



Bottom view of Main Unit

■ NOTES OF ISO CONNECTOR

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram.(Figure 1)

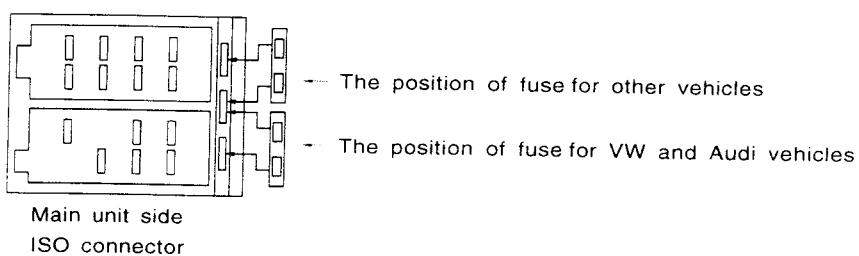


Figure 1

2. The lead included with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function.(Figure 2)

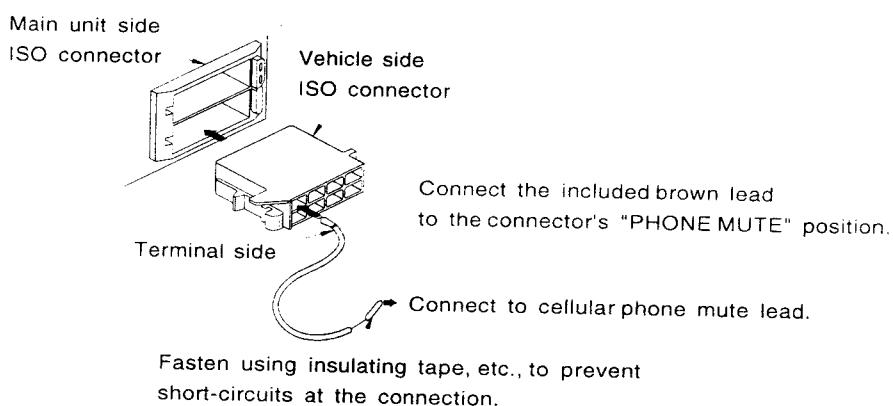


Figure 2

■ ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.

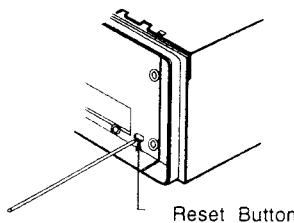
Take the measures described below to eliminate the problem.

Error Display	Cause	Measure
CD ER2	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.
CD ER3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
CD ER6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CDCH ER2	A CD/MD inside the CD/MD changer is not loaded.	This is a failure of CD/MD changer's mechanism and consult your store of purchase.
CDCH ER3	A CD/MD inside the CD/MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
CDCH ER6	A CD/MD inside the CD/MD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.

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

■ TROUBLESHOOTING

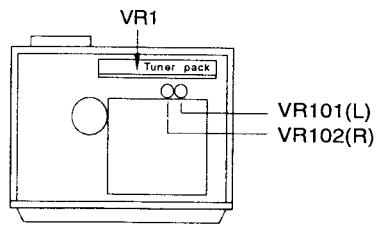
Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage as the old fuse.
	Incorrect wiring.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
No sound output when operating the unit with amplifiers 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.	Turn off the power, then press the OPEN button and remove the DCP. Press the reset button for about 2 seconds with a thin rod.
	DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
Compact disc cannot be loaded.	Another compact disc is already loaded.	Eject the compact disc before loading the new one.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
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 dry for about 1 hour with the power on.



■ ADJUSTMENT

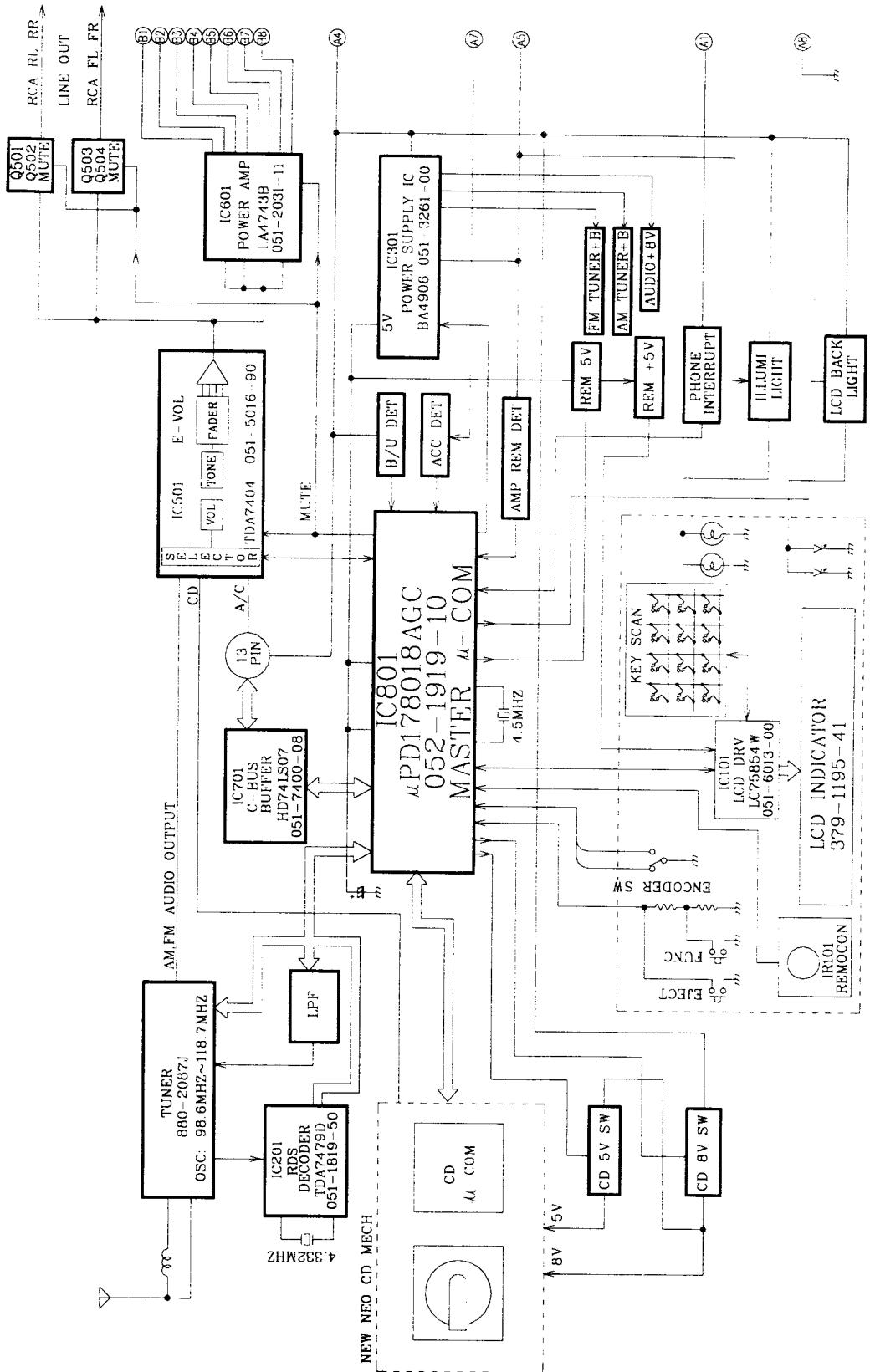
Item	Procedure	Measuring instrument
S-meter	1.Input the 98.1MHz/30dB μ(400Hz-MOD 30%)signal. 2.Turn on the power switch. And press the AF button and CH6 button at the same time.(TEST MODE) 3.Adjust the reading of LCD indicator to [30---00] (3.0V± 0.2V)by VR1.	SG

Adjustment point



Top side of main unit

■ BLOCK DIAGRAM



C-BUS LINE	
NO.	CONNECTION
1	SO/SI
2	SCK
3	
4	SRQ
5	REM - B
6	S-GND
7	Lch-IN
8	Rch-IN
9	SLAVE ON
10	B/U
11	ACC-CONT
12	GND
13	MASTE ON

NO. CONNECTION	
A1	PHONT INT
A2	
A3	
A4	BACK UP
A5	REM
A6	NC
A7	ACC
A8	GROUND
B1	RR+
B2	RR-
B3	FR+
B4	FR-
B5	FL+
B6	FL-
B7	RL+
B8	RL-

■ EXPLANATION OF IC:

■ μPD178018AGC-573-3B9 052-1919-10 MASTER MICRO COMPUTER

1. Outward Form : 80 pins QFP						
2. Terminal Description						
pin 1 : KEY_A/D : I : FUNC/EJECT/DCP detection terminal for A/D converter						
pin 2 : RDS_S_METER : I : RDS S_METER detection terminal for A/D converter						
pin 3 : RDS_NOISE : I : RDS NOISE detection terminal for A/D converter						
pin 4 : VOL_CW : I : Use for rolling volume						
pin 5 : VOL_CCW : I : Use for rolling volume						
pin 6 : NOISE_DISCHG : O : Noise is off						
pin 7 : LCD_SI : I : Serial data communication line to LCD Control IC						
pin 8 : LCD_SO : O : Serial data communication line to LCD Control IC						
pin 9 : LCD_SCK : O : Serial data communication line to LCD Control IC						
pin 10 : LCD_CE : O : Serial data communication line to LCD Control IC						
pin 11 : C-BUS_SRQ : I : "C-BUS" Serial data communication line						
pin 12 : C-BUS_SI : I : "C-BUS" Serial data communication line						
pin 13 : C-BUS_SO : O : "C-BUS" Serial data communication line						
pin 14 : C-BUS_SCK : O : "C-BUS" Serial data communication line						
pin 15 : B/L - B : O : NC						
pin 16 : SYS_MUTE : O : Output mute. While it is "LOW", mute is "ON"						
pin 17 : REM - 5 : O : REM 5V power supply control terminal						
pin 18 : STAND_BY : O : Power supply IC control terminal						
pin 19 : E_VOL_CLK : O : E_VOL use						
pin 20 : E_VOL_DATA : O : E_VOL use						
pin 21 : GND : - : GND						
pin 22 : VDD : - : VDD						
pin 23 : MODE1 FM/AM : O : While "HI"=FM and "LO"=AM, power supply is "ON"						
pin 24 : MODE2 ANT : O : While "HI"=ANT, power supply is "ON"						
pin 25 : MUTE SPEED : O : During RDS follow-up motion, mute speed at "LO"; usually it is at "HI"						
pin 26 : IF_REQ : O : During seeking, it is at "HI"; while detecting RDS SD, it is at "LO"						
pin 27 : RDS_SD : O : RDS SD input terminal						
pin 28 : AM_IF_CNT : I : AM IF counter						
pin 29 : FM_IF_CNT : I : FM IF counter						
pin 30 : VDD : - : VDD						
pin 31 : FM_OSC : I : FM VCO input terminal						
pin 32 : AM_OSC : I : AM VCO input terminal						
pin 33 : GND : - : GND						
pin 34 : FM_VT : O : FM PLL VT						
pin 35 : AM_VT : O : AM PLL VT						
pin 36 : GND : - : GND						
pin 37 : NC : I : GND						
pin 38 : NC : I : GND						
pin 39 : SD/ST_IND : I : While AM/FM SD IN/FM ST is "0", "ST" lights						
pin 40 : RDS_MUTE : O : During RDS follow-up motion, mute is at "HI"; usually it is at "LO"						
pin 41 : AM_RX/LO : O : AM RX/LO output terminal, LOCAL is at "HI"						
pin 42 : AMP_Rem_DET : I : While protecting circuit motion, it is at "HI"						
pin 43 : SLAVE_ON : I : 47k to GND						
pin 44 : MASTER_ON : O : NC						
pin 45 : A-ANT : O : Motor ANT control terminal						
pin 46 : FM_RX/LO : O : FM RX/LO output terminal, LOCAL is at "HI"						
pin 47 : CD_8VREM : O : CD power supply control terminal ~ 8V						
pin 48 : CD_5VREM : O : CD power supply control terminal ~ 5V						
pin 49 : PHONE_AUDIO : I : Connected to GND						
pin 50 : NC : I : NC						
pin 51 : CW : O : Mechanical photo sensor input terminal. Terminal to detect the disc position in loading status, chucking status and other machine status.						
pin 52 : CCW : O : Mechanical photo sensor input terminal. Terminal to detect the disc position in loading status, chucking status and other machine status.						
pin 53 : TR_C : I : Mechanical photo sensor input terminal. Terminal to detect the disc position in loading status, chucking status and other machine status.						
pin 54 : TR_B : I : Mechanical photo sensor input terminal. Terminal to detect the disc position in loading status, chucking status and other machine status.						
pin 55 : TR_A : I : Mechanical photo sensor input terminal. Terminal to detect the disc position in loading status, chucking status and other machine status.						
pin 56 : CHU_SW : I : Mechanical photo sensor input terminal. Terminal to detect the disc position in loading status, chucking status and other machine status.						
pin 57 : NC : I : NC						
pin 58 : CD_RESET : O : CD MECH connects to RESET						
pin 59 : CCE : O : CD MECH chip enable						
pin 60 : BUCK : O : CD MECH data bus clock						
pin 61 : BUS_3 : I/O : CD MECH data bus						
pin 62 : BUS_2 : I/O : CD MECH data bus						
pin 63 : BUS_1 : I/O : CD MECH data bus						
pin 64 : BUS_0 : I/O : CD MECH data bus						
pin 65 : LM : O : LW="HI", MW="LO"						
pin 66 : RDS_DATA : I : RDS data input terminal						
pin 67 : RDS_CLK : I : RDS clock input terminal						
pin 68 : B/U_DET : I : B/U detecting terminal						
pin 69 : ACC_IN : I : ACC detecting terminal						
pin 70 : REMOCON : I : Remote control						
pin 71 : KEY_INT : I : To 1 pin						
pin 72 : SBSY : I : Connected to CD MECH						
pin 73 : PHONE_INT : I : Phone interrupted						
pin 74 : CPU_REG : - : 0.047 μF to GND						
pin 75 : GND : - : GND						
pin 76 : XOUT : - : X-TAL 4.5MHz						
pin 77 : XIN : - : X-TAL 4.5MHz						
pin 78 : OSC_REG : - : 0.047 μF to GND						
pin 79 : VDD : - : VDD						
pin 80 : RESET : I : System reset with 22K to 68 pin						

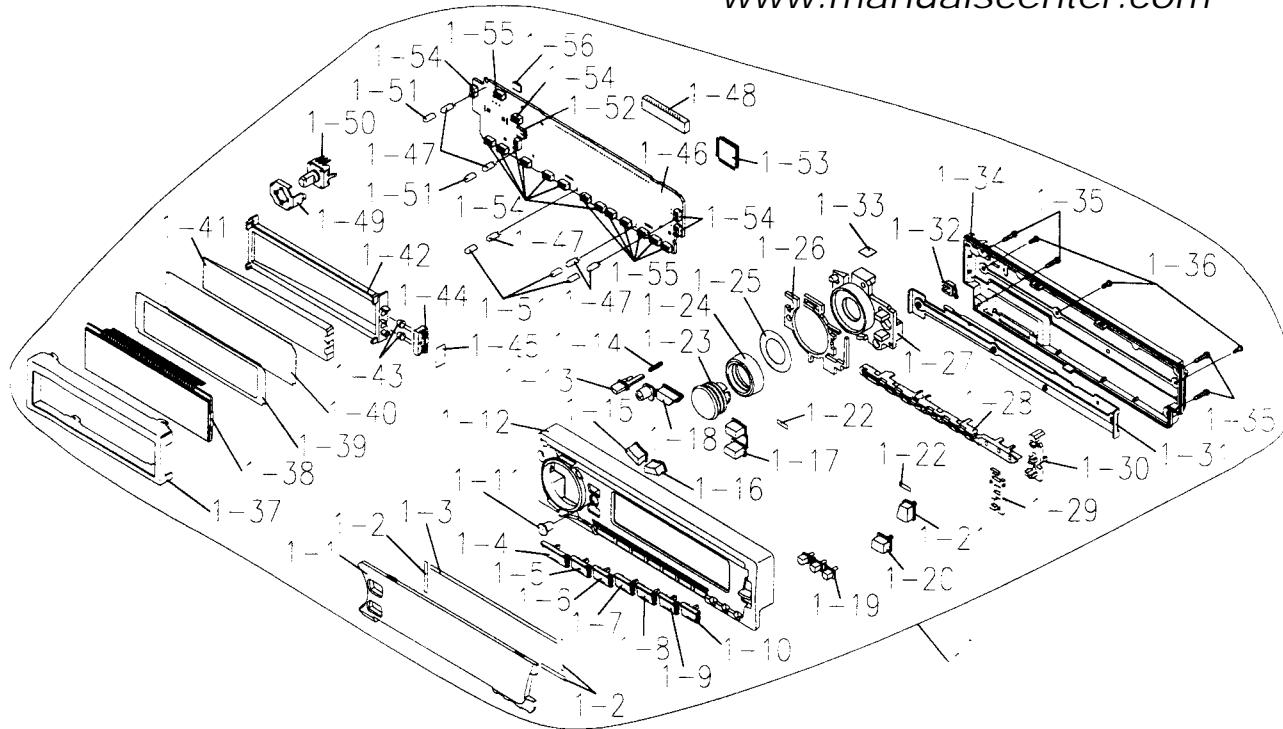
CD MECH : LOADING MOTOR CONTROL

PIN No	NAME	LOADING	EJECT	BREAK	STOP
51	MCW	H	L	H	L
52	MCCW	L	H	H	L

■ EXPLODED VIEW • PARTS LIST:

DCP Section

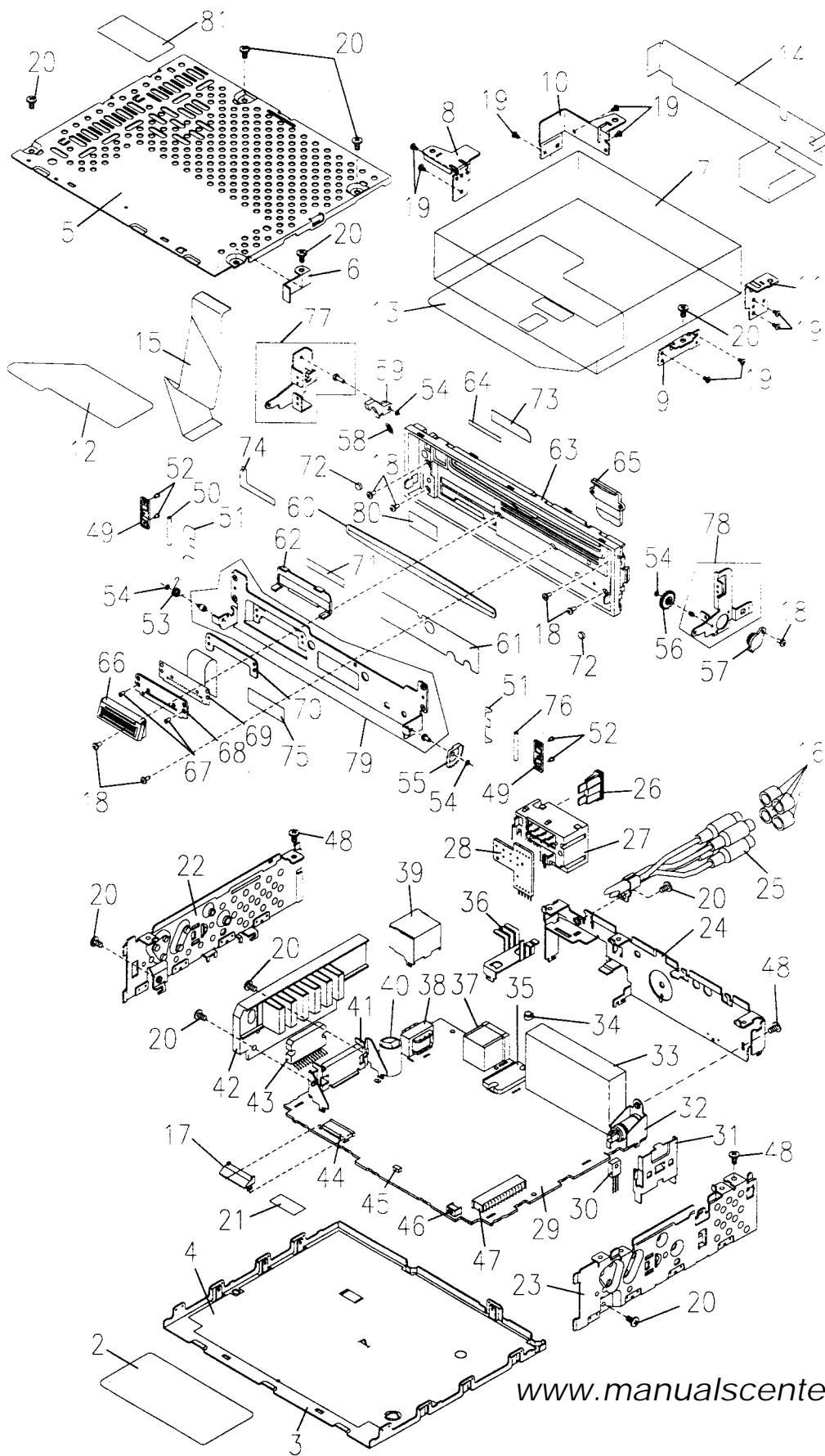
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NO.	PARTS NO.	DESCRIPTION	QTY
1	DCP-358-700	DCP ASSY	1
1-1	373-0952-02	DIAL-COVER	1
1-2	347-6509-00	DOUBLE FACE	3
1-3	347-6505-00	DOUBLE FACE	1
1-4	382-6129-00	BUTTON	1
1-5	382-6130-00	BUTTON	1
1-6	382-6131-00	BUTTON	1
1-7	382-6132-00	BUTTON	1
1-8	382-6133-00	BUTTON	1
1-9	382-6134-00	BUTTON	1
1-10	382-6135-00	BUTTON	1
1-11	335-5828-00	IR-FILTER	1
1-12	370-5937-00	ESCUCHEON	1
1-13	382-6138-00	BUTTON	1
1-14	750-3404-00	SPRING	1
1-15	382-6127-00	BUTTON	1
1-16	382-6126-00	BUTTON	1
1-17	382-6122-00	BUTTON	1
1-18	382-6128-00	BUTTON	1
1-19	382-6137-00	BUTTON	1
1-20	382-6125-01	BUTTON	1
1-21	382-6124-01	BUTTON	1
1-22	347-6511-00	SHADE	2
1-23	380-5512-00	KNOB	1
1-24	345-8553-00	RUBBER PART	1
1-25	347-6506-00	SHADE	1
1-26	345-8617-00	Sponge	1
1-27	335-6518-00	ILLUMI PART	1
1-28	335-6517-00	ILLUMI PART	1

NO.	PARTS NO.	DESCRIPTION	QTY
1-29	345-8616-00	SPONGE	1
1-30	335-6516-00	ILLUMI PART	1
1-31	331-2524-00	REAR-COVER-PLATE	1
1-32	382-5141-00	BUTTON	1
1-33	347-6525-00	SHADE	1
1-34	335-5837-01	REAR-COVER	1
1-35	716-0872-12	PAD SCREW	4
1-36	738-2035-17	PRECISION SCREW	3
1-37	331-2807-00	LCD COVER	1
1-38	379-1195-41	INDICATOR	1
1-39	347-6172-00	FILM	1
1-40	347-6173-00	SHADE	1
1-41	335-6211-00	LCD ILLUMI	1
1-42	335-6207-00	LCD HOLDER	1
1-43	001-7046-00	DIODE	2
1-44	335-6215-00	LED HOLDER	1
1-45	347-6510-00	SHADE	1
1-46	039-1890-01	SWITCH PWB (WITHOUT COMPONENT)	1
1-47	017-0444-00	PILOTLAMP (14V 50mA)	5
1-48	076-0535-01	PLUG	1
1-49	331-3133-00	JOG-SW-HOLDER	1
1-50	016-9900-81	VR W/SHAFT	1
1-51	345-4441-37	LAMP CAP	5
1-52	060-4008-00	IR-RECEIVE	1
1-53	051-6013-00	IC	1
1-54	013-6305-50	TACT SWITCH	11
1-55	013-6001-50	SWITCH	7
1-56	013-6511-50	ILLUMI SWITCH	1

Main Section



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NO.	PARTS NO.	DESCRIPTION	Q'TY
2	286-9514-00	SETPLATE	1
3	304-0460-01	LOWER-COVER	1
4	347-5918-00	INSULATOR	1
5	303-0472-00	UPPER-COVER	1
6	331-2744-00	STOPPER	1
7	929-0092-82	CD-MECH-MODULE	1
8	331-2491-00	CD-SUB-BRKT	1
9	331-2492-00	CD-SUB-BRKT	1
10	331-2493-00	CD-SUB-BRKT	1
11	331-2494-00	CD-SUB-BRKT	1
12	347-5416-00	INSULATOR	1
13	347-5916-02	INSULATOR	1
14	347-6201-00	INSULATOR	1
15	816-2391-00	FLATCABLE	1
16	345-3799-20	RUBBER CAP	4
17	335-6019-00	CN-COVER	1
18	780-2004-01	SCREW	7
19	716-0717-10	STEEL SCREW	9
20	731-3006-80	TAPTAIGHT	10
21	347-6215-00	SPACER-FILM	1
22	305-0274-01	SIDE-COVER(L)	1
23	305-0275-00	SIDE-COVER(R)	1
24	307-0627-10	REAR-COVER	1
25	855-5428-50	RCA PIN CORD	1
26	060-0057-57	AUTO-FUSE(15A)	1
27	074-1115-00	OUTLET SOCKET	1
28	039-1400-30	ISO-PWB (WITHOUT COMPONENT)	1
29	039-1639-00	MAIN PWB (WITHOUT COMPONENT)	1
30	103-2012-00	TRANSISTOR	1
31	313-1651-21	HEAT SINK	1
32	092-4000-50	ANT RECEPT	1
33	880-2087J	TUNER	1
34	012-4738-13	VARIABLE-R	1
35	051-3261-00	IC	1
36	313-1772-00	HEAT SINK	1
37	074-1126-10	OUTLET SOCKET	1
38	009-9006-60	CHOKE	1
39	331-2820-00	SHIELD CASE	1
40	042-0447-00	SLUMI ELECTROLYTE-C	1
41	331-2255-20	IC-HOLDER	1

NO.	PARTS NO.	DESCRIPTION	Q'TY
42	313-1744-20	HEAT SINK	1
43	051-2031-11	IC	1
44	074-1198-68	OUTLET SOCKET	1
45	001-7011-96	DIODE	1
46	013-6100-00	SWITCH	1
47	074-1186-26	OUTLET SOCKET	1
48	714-3006-81	MACHINE SCREW	3
49	335-5821-01	SPING HOLDER	2
50	341-1704-20	ROLLER(LEFT)	1
51	750-3327-01	SPRING	2
52	738-1722-17	PRECISION SCREW	4
53	750-3342-00	SPRING	1
54	746-0761-00	WASHER	4
55	613-0684-00	FAN GEAR	1
56	613-0683-00	GEAR	1
57	613-0687-00	GEAR DAMPER	1
58	750-3341-00	SPRING	1
59	335-5820-00	HOOK	1
60	346-0114-01	LEATHER SHEET	1
61	290-7676-00	LABEL	1
62	335-5822-00	CN-COVER	1
63	370-5766-02	INNER-ES	1
64	347-5923-00	DOUBLE FACE	1
65	335-5817-00	ILLUMI PLATE	1
66	074-1145-02	OUTLET SOCKET	1
67	781-1735-00	SCREW	2
68	039-1306-00	DCP-PWB (WITHOUT COMPONENT)	1
69	039-1328-01	FPC (WITHOUT COMPONENT)	1
70	347-5935-00	SPACER	1
71	347-5919-00	SURGE PROTECTOR	1
72	345-8265-00	CUSHION	2
73	347-5920-00	COVER FILM	1
74	347-5941-00	HEAT-PROTECT	1
75	291-0078-00	STICKER	1
76	341-1710-00	ROLLER(RIGHT)	1
77	946-0071-01	ARM-L-ASSY	1
78	946-0072-01	ARM-R-ASSY	1
79	946-0070-02	HOLDER-ASSY	1
80	347-6356-00	DOUBLE FACE	1
81	291-0083-00	STICKER	1

■ ELECTRICAL PARTS LIST:

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Main PWB (B1) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 201	051-1819-50	TDA7479D	D 401	001-0376-32	MTZ5.6JB	C 122	178-1032-78	25V 0.01 μ F
IC 202	051-0350-93	NJM4558M	D 402	001-0376-47	MTZ9.1JB	C 124	042-9002-04	50V 1 μ F (LN)
IC 301	051-3261-00	BA4906	D 403	001-0330-00	1SS119	C 125	178-1232-78	25V 0.012 μ F
IC 501	051-5016-90	TDA7404	D 601	001-0592-00	RM4Z	C 126	178-1032-78	25V 0.01 μ F
IC 601	051-2031-11	LA4743B	D 602	001-0466-01	S5688G	C 127	176-2201-00	50V 22PF
IC 701	051-7400-08	HD74LS07FP	D 603	001-0466-01	S5688G	C 128	183-4763-32	16V 47 μ F
IC 801	052-1919-10	μ PD178018AGC	D 604	001-0466-01	S5688G	C 129	183-1063-52	35V 10 μ F
Q 101	108-0669-00	2SK669	D 605	001-0466-01	S5688G	C 131	178-1022-78	50V 1000PF
Q 102	102-2712-51	2SC2712GL	D 606	001-0466-01	S5688G	C 132	176-1011-00	50V 100PF
Q 103	102-2712-51	2SC2712GL	D 607	001-0466-01	S5688G	C 134	176-1007-00	50V 10PF
Q 105	103-1306-00	2SD1306	D 608	001-0466-01	S5688G	C 135	178-1022-78	50V 1000PF
Q 107	125-2004-02	RN1402	D 609	001-0466-01	S5688G	C 136	178-1032-78	25V 0.01 μ F
Q 108	125-0002-03	RN2403	D 610	001-0330-00	1SS119	C 137	178-1022-78	50V 1000PF
Q 201	125-0002-02	RN2402	D 701	001-0330-00	1SS119	C 140	176-1011-00	50V 100PF
Q 204	125-2004-02	RN1402	D 702	001-0330-00	1SS119	C 141	176-1011-00	50V 100PF
Q 205	125-2004-02	RN1402	D 801	001-0330-00	1SS119	C 201	178-6812-78	50V 680PF
Q 301	102-2712-51	2SC2712GL	D 802	001-7011-06	CL-150SR-CD	C 202	178-8212-78	50V 820PF
Q 303	102-2712-51	2SC2712GL	D 803	001-0377-10	MA4030L	C 203	176-8201-00	50V 82PF
Q 304	102-2712-51	2SC2712GL	D 804	001-0376-47	MTZ9.1JB	C 204	176-4701-00	50V 47PF
Q 305	101-1237-00	2SB1237	D 901	001-0330-00	1SS119	C 206	183-2253-62	50V 2.2 μ F
Q 306	125-0002-02	RN2402	L 101	010-4007-00	5.6 μ H	C 207	183-4763-32	16V 47 μ F
Q 307	125-0002-02	RN2402	L 102	010-2230-38	220 μ H	C 208	178-5612-78	50V 560PF
Q 401	103-1858-00	2SD1858	L 103	010-2230-31	56 μ H	C 209	178-1022-78	50V 1000PF
Q 402	125-0002-02	RN2402	L 104	010-2230-38	220 μ H	C 211	178-2232-78	25V 0.022 μ F
Q 403	125-2004-06	RN1406	L 201	010-2230-38	220 μ H	C 212	178-2232-78	25V 0.022 μ F
Q 404	125-2004-06	RN1406	L 501	010-2285-57		C 213	178-1032-78	25V 0.01 μ F
Q 405	101-1243-00	2SB1243	L 601	009-9006-60	CHOKE	C 214	178-3312-78	50V 330PF
Q 406	103-2012-00	2SD2012	L 701	010-2230-26	22 μ H	C 216	178-1042-78	25V 0.1 μ F
Q 407	103-1858-00	2SD1858	L 801	010-2230-38	220 μ H	C 301	178-1032-78	25V 0.01 μ F
Q 408	125-2004-02	RN1402	L 803	010-2230-26	22 μ H	C 302	172-1041-10	50V 0.1 μ F
Q 501	103-1306-00	2SD1306	L 804	010-2230-14	2.2 μ H	C 303	172-1031-10	50V 0.01 μ F
Q 502	103-1306-00	2SD1306	X 201	061-3013-00	4.332MHz	C 304	176-1011-00	50V 100PF
Q 503	103-1306-00	2SD1306	X 801	061-1064-00	4.5MHz	C 305	183-1063-52	35V 10 μ F
Q 504	103-1306-00	2SD1306	C 101	176-2201-00	50V 22PF	C 306	176-1011-00	50V 100PF
Q 601	125-0002-02	RN2402	C 102	178-1032-78	25V 0.01 μ F	C 307	176-1007-00	50V 10PF
Q 701	125-2004-02	RN1402	C 103	178-1032-78	25V 0.01 μ F	C 308	178-1032-78	25V 0.01 μ F
Q 802	101-1243-00	2SB1243	C 104	178-1022-78	50V 1000PF	C 309	176-1011-00	50V 100PF
Q 803	125-2004-02	RN1402	C 105	183-1073-22	10V 100 μ F	C 401	183-1073-22	10V 100 μ F
Q 804	100-1162-00	2SA1162	C 106	183-1073-22	10V 100 μ F	C 402	183-1063-52	35V 10 μ F
Q 805	103-1858-00	2SD1858	C 107	183-1073-22	10V 100 μ F	C 404	183-1073-22	10V 100 μ F
Q 806	100-1162-00	2SA1162	C 108	176-1011-00	50V 100PF	C 405	183-1063-52	35V 10 μ F
Q 807	125-2004-02	RN1402	C 109	178-3312-78	50V 330PF	C 406	178-1532-78	25V 0.015 μ F
Q 901	100-1162-00	2SA1162	C 110	178-1022-78	50V 1000PF	C 407	178-1532-78	25V 0.015 μ F
D 201	001-0330-00	1SS119	C 111	178-1522-78	50V 1500PF	C 408	178-1022-78	50V 1000PF
D 202	001-0330-00	1SS119	C 112	183-1053-62	50V 1 μ F	C 409	178-1032-78	25V 0.01 μ F
D 301	001-0376-41	MTZ7.5JB	C 113	176-1011-00	50V 100PF	C 410	178-1022-78	50V 1000PF
D 302	001-0376-26	MTZ4.7JB	C 114	176-1011-00	50V 100PF	C 411	178-1032-78	25V 0.01 μ F
D 303	001-0466-01	S5688G	C 115	178-2232-78	25V 0.022 μ F	C 412	178-1022-78	50V 1000PF
D 304	001-0466-01	S5688G	C 116	178-2232-78	25V 0.022 μ F	C 413	178-1022-78	50V 1000PF
D 306	001-0466-01	S5688G	C 117	183-4753-62	50V 4.7 μ F	C 501	178-1042-78	25V 0.1 μ F
D 307	001-0330-00	1SS119	C 118	178-2232-78	25V 0.022 μ F	C 502	178-1042-78	25V 0.1 μ F
D 308	001-0330-00	1SS119	C 120	178-5622-78	50V 5600PF	C 503	183-1053-62	50V 1 μ F
D 309	001-0330-00	1SS119	C 121	178-3332-78	25V 0.033 μ F	C 504	183-1053-62	50V 1 μ F

REF No	PART No.	DESCRIPTION	REF No	PART No.	DESCRIPTION	REF No	PART No.	DESCRIPTION
C 505	183-1053-62	50V 1 μ F	R 111	117-2221-10	1/10W 2.2K Ω	R 524	117-1031-10	1/10W 10K Ω
C 506	183-1053-62	50V 1 μ F	R 112	117-1021-10	1/10W 1K Ω	R 602	117-1031-10	1/10W 10K Ω
C 509	183-4763-32	16V 47 μ F	R 113	117-5631-10	1/10W 56K Ω	R 604	117-1231-10	1/10W 12K Ω
C 510	182-1063-33	16V 10 μ F	R 114	117-6821-10	1/10W 6.8K Ω	R 605	117-4721-10	1/10W 4.7K Ω
C 511	182-1063-33	16V 10 μ F	R 116	117-2221-10	1/10W 2.2K Ω	R 606	117-4721-10	1/10W 4.7K Ω
C 512	182-1063-33	16V 10 μ F	R 203	117-2221-10	1/10W 2.2K Ω	R 607	117-4721-10	1/10W 4.7K Ω
C 513	182-1063-33	16V 10 μ F	R 205	117-3321-10	1/10W 3.3K Ω	R 608	117-4721-10	1/10W 4.7K Ω
C 514	183-1063-52	35V 10 μ F	R 206	117-3331-10	1/10W 33K Ω	R 610	117-4721-10	1/10W 4.7K Ω
C 515	178-1022-78	50V 1000PF	R 207	117-1031-10	1/10W 10K Ω	R 701	117-4721-10	1/10W 4.7K Ω
C 516	178-1022-78	50V 1000PF	R 208	117-1231-10	1/10W 12K Ω	R 702	117-4721-10	1/10W 4.7K Ω
C 520	178-1022-78	50V 1000PF	R 211	117-2211-10	1/10W 220 Ω	R 703	117-1021-10	1/10W 1K Ω
C 521	178-1022-78	50V 1000PF	R 212	117-1041-10	1/10W 100K Ω	R 704	117-4721-10	1/10W 4.7K Ω
C 523	178-4712-78	50V 470PF	R 301	117-4731-10	1/10W 47K Ω	R 705	117-1021-10	1/10W 1K Ω
C 524	178-1022-78	50V 1000PF	R 302	117-2231-10	1/10W 22K Ω	R 706	117-4721-10	1/10W 4.7K Ω
C 525	178-1022-78	50V 1000PF	R 303	117-2231-10	1/10W 22K Ω	R 707	117-1021-10	1/10W 1K Ω
C 601	172-2231-10	50V 0.022 μ F	R 305	117-2231-10	1/10W 22K Ω	R 708	111-1001-91	1/4WSS 10 Ω
C 603	183-3343-62	50V 0.33 μ F	R 308	117-4721-10	1/10W 4.7K Ω	R 709	117-1031-10	1/10W 10K Ω
C 604	183-2263-32	16V 22 μ F	R 309	117-4721-10	1/10W 4.7K Ω	R 711	117-4731-10	1/10W 47K Ω
C 605	183-4763-32	16V 47 μ F	R 311	111-3321-91	1/4WSS 3.3K Ω	R 801	117-1041-10	1/10W 100K Ω
C 606	182-4746-63	50V 0.47 μ F	R 312	117-1031-10	1/10W 10K Ω	R 802	117-2221-10	1/10W 2.2K Ω
C 607	182-4746-63	50V 0.47 μ F	R 313	117-4721-10	1/10W 4.7K Ω	R 803	117-1031-10	1/10W 10K Ω
C 608	182-4746-63	50V 0.47 μ F	R 314	117-1031-10	1/10W 10K Ω	R 804	117-2221-10	1/10W 2.2K Ω
C 609	182-4746-63	50V 0.47 μ F	R 402	117-1041-10	1/10W 100K Ω	R 805	117-1031-10	1/10W 10K Ω
C 611	172-1041-10	50V 0.1 μ F	R 403	117-1041-10	1/10W 100K Ω	R 806	117-1031-10	1/10W 10K Ω
C 612	172-1041-10	50V 0.1 μ F	R 404	117-1041-10	1/10W 100K Ω	R 810	117-2231-10	1/10W 22K Ω
C 613	172-1041-10	50V 0.1 μ F	R 406	117-4731-10	1/10W 47K Ω	R 811	117-1021-10	1/10W 1K Ω
C 614	172-1041-10	50V 0.1 μ F	R 407	111-2291-91	1/4WSS 2.2 Ω	R 812	117-1021-10	1/10W 1K Ω
C 619	178-1022-78	50V 1000PF	R 408	111-2291-91	1/4WSS 2.2 Ω	R 818	117-4731-10	1/10W 47K Ω
C 701	178-4732-78	25V 0.047 μ F	R 412	111-2211-91	1/4WSS 220 Ω	R 819	117-1041-10	1/10W 100K Ω
C 801	176-2201-00	50V 22PF	R 413	111-1221-91	1/4WSS 1.2K Ω	R 820	117-1041-10	1/10W 100K Ω
C 802	176-2201-00	50V 22PF	R 414	117-4731-10	1/10W 47K Ω	R 821	117-2221-10	1/10W 2.2K Ω
C 803	178-4732-78	25V 0.047 μ F	R 415	111-4711-91	1/4WSS 470 Ω	R 822	117-1031-10	1/10W 10K Ω
C 804	178-4732-78	25V 0.047 μ F	R 419	111-2211-91	1/4WSS 220 Ω	R 823	111-5611-91	1/4WSS 560 Ω
C 805	178-1032-78	25V 0.01 μ F	R 501	117-4721-10	1/10W 4.7K Ω	R 824	111-1011-91	1/4WSS 100 Ω
C 806	183-4763-32	16V 47 μ F	R 502	117-4721-10	1/10W 4.7K Ω	R 825	111-1011-91	1/4WSS 100 Ω
C 807	183-1073-22	10V 100 μ F	R 503	117-1021-10	1/10W 1K Ω	R 826	117-1821-10	1/10W 1.8K Ω
C 808	178-1032-78	25V 0.01 μ F	R 504	117-1021-10	1/10W 1K Ω	R 827	117-1041-10	1/10W 100K Ω
C 815	178-1042-78	25V 0.1 μ F	R 505	117-1031-10	1/10W 10K Ω	R 829	111-4711-81	1/2WSS 470 Ω
C 816	178-1022-78	50V 1000PF	R 506	117-1031-10	1/10W 10K Ω	R 830	117-1031-10	1/10W 10K Ω
C 817	176-1011-00	50V 100PF	R 507	117-3311-10	1/10W 330 Ω	R 831	117-1021-10	1/10W 1K Ω
C 818	178-1032-78	25V 0.01 μ F	R 508	117-3311-10	1/10W 330 Ω	R 832	117-1031-10	1/10W 10K Ω
C 820	178-4732-78	25V 0.047 μ F	R 509	117-1021-10	1/10W 1K Ω	R 833	117-2231-10	1/10W 22K Ω
C 822	178-1022-78	50V 1000PF	R 510	117-1021-10	1/10W 1K Ω	R 834	117-4731-10	1/10W 47K Ω
C 823	178-1022-78	50V 1000PF	R 511	117-1031-10	1/10W 10K Ω	R 901	117-1031-10	1/10W 10K Ω
R 102	117-1021-10	1/10W 1K Ω	R 512	117-1031-10	1/10W 10K Ω	R 902	117-4721-10	1/10W 4.7K Ω
R 103	117-4721-10	1/10W 4.7K Ω	R 513	117-3311-10	1/10W 330 Ω	R 903	117-4731-10	1/10W 47K Ω
R 104	117-3311-10	1/10W 330 Ω	R 514	117-3311-10	1/10W 330 Ω	SUP101060-0122-91	DSP-141N	
R 105	117-4721-10	1/10W 4.7K Ω	R 515	117-4721-10	1/10W 4.7K Ω	VR 101	012-4738-13	470K Ω
R 106	117-1021-10	1/10W 1K Ω	R 516	117-4721-10	1/10W 4.7K Ω	CN 101	074-1198-68	OUTLET SOCKET T
R 107	117-3311-10	1/10W 330 Ω	R 517	117-4721-10	1/10W 4.7K Ω	CN 105	074-1126-10	OUTLET SOCKET T
R 108	117-5631-10	1/10W 56K Ω	R 518	117-4721-10	1/10W 4.7K Ω	CN 106	074-1186-26	OUTLET SOCKET T
R 109	117-6821-10	1/10W 6.8K Ω	R 519	117-4721-10	1/10W 4.7K Ω	SW 301	013-6100-00	RESET SWITCH
R 110	117-1021-10	1/10W 1K Ω	R 520	117-4721-10	1/10W 4.7K Ω			

Switch PWB (B2) section

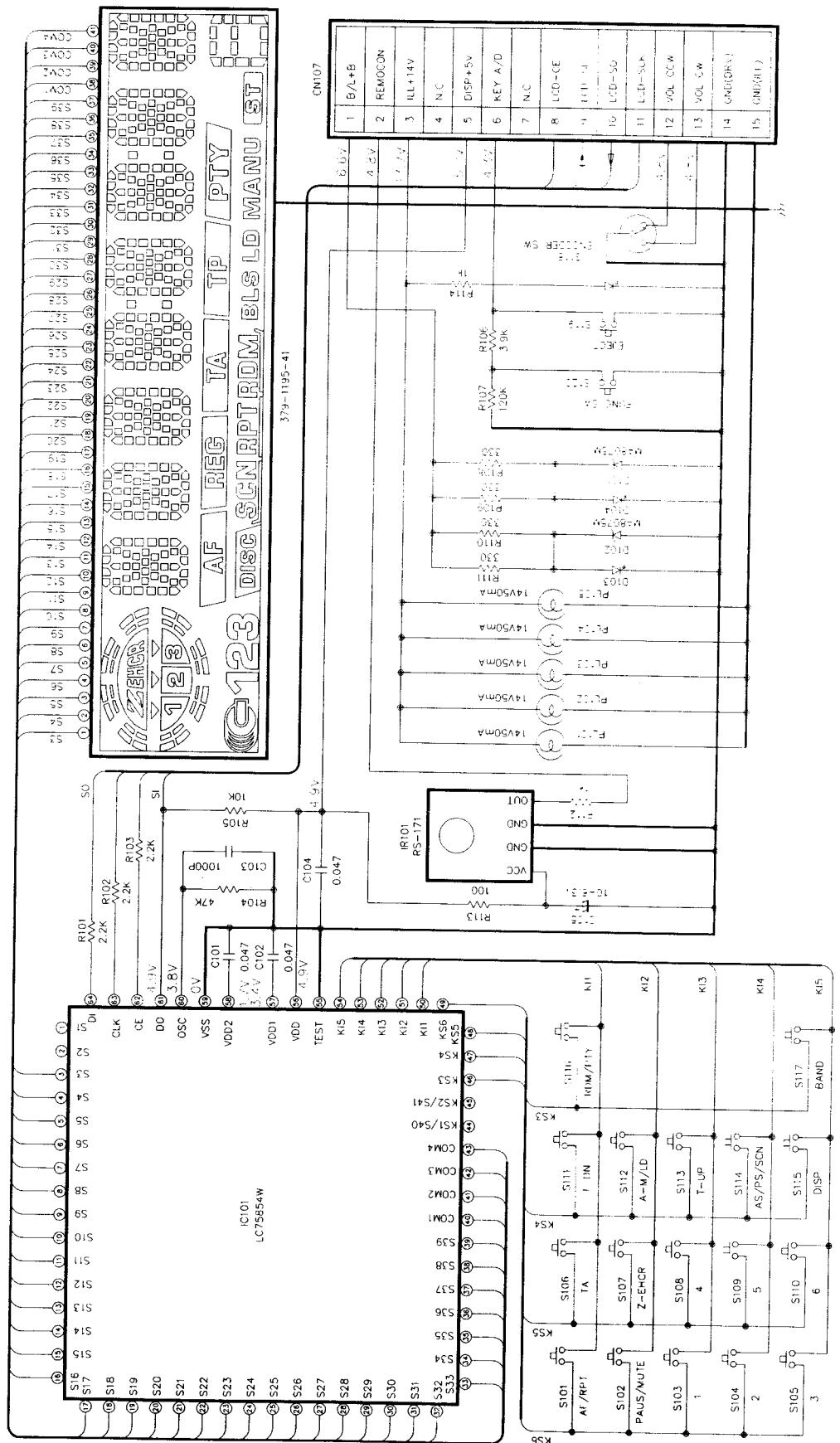
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 101	051-6013-00	LC75854W	R 108	032-0092-80	1/10W 330Ω 1%	S 105	013-6001-50	SKQCAB
D 101	001-0529-41	MA8075M	R 109	032-0092-80	1/10W 330Ω 1%	S 106	013-6305-00	SKQMAH
D 102	001-0529-41	MA8075M	R 110	032-0092-80	1/10W 330Ω 1%	S 107	013-6305-00	SKQMAH
D 103	001-7046-00	NSPW310BS	R 111	032-0092-80	1/10W 330Ω 1%	S 108	013-6305-00	SKQMAH
D 104	001-7046-00	NSPW310BS	R 112	119-1021-10	1/16W 1KΩ	S 109	013-6001-50	SKQCAB
C 101	168-4732-78	25V 0.047 μF	R 113	119-1011-10	1/16W 100Ω	S 110	013-6001-50	SKQCAB
C 102	168-4732-78	25V 0.047 μF	R 114	119-1021-10	1/16W 1KΩ	S 111	013-6305-00	SKQMAH
C 103	168-1022-55	50V 1000PF	CN 107	076-0535-01	PLUG	S 112	013-6001-50	SKQCAB
C 104	168-4732-78	25V 0.047 μF	PL 101	017-0444-00	14V 50mA	S 113	013-6305-00	SKQMAH
C 105	042-0416-51	6.3V 10 μF	PL 102	017-0444-00	14V 50mA	S 114	013-6001-50	SKQCAB
R 101	119-2221-10	1/16W 2.2KΩ	PL 103	017-0444-00	14V 50mA	S 115	013-6305-00	SKQMAH
R 102	119-2221-10	1/16W 2.2KΩ	PL 104	017-0444-00	14V 50mA	S 116	013-6001-50	SKQCAB
R 103	119-2221-10	1/16W 2.2KΩ	PL 105	017-0444-00	14V 50mA	S 117	013-6305-00	SKQMAH
R 104	119-4731-10	1/16W 47KΩ	S 101	013-6001-50	SKQCAB	S 118	016-9900-81	SIM-026MT
R 105	119-1031-10	1/16W 10KΩ	S 102	013-6305-00	SKQMAH	S 119	013-6511-50	LS9J2M-1SR-T
R 106	119-3921-10	1/16W 3.9KΩ	S 103	013-6305-00	SKQMAH	S 120	013-6305-00	SKQMAH
R 107	119-1241-10	1/16W 120KΩ	S 104	013-6305-00	SKQMAH	IR 101	060-4008-00	RS-171

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ISO PWB (B3) section

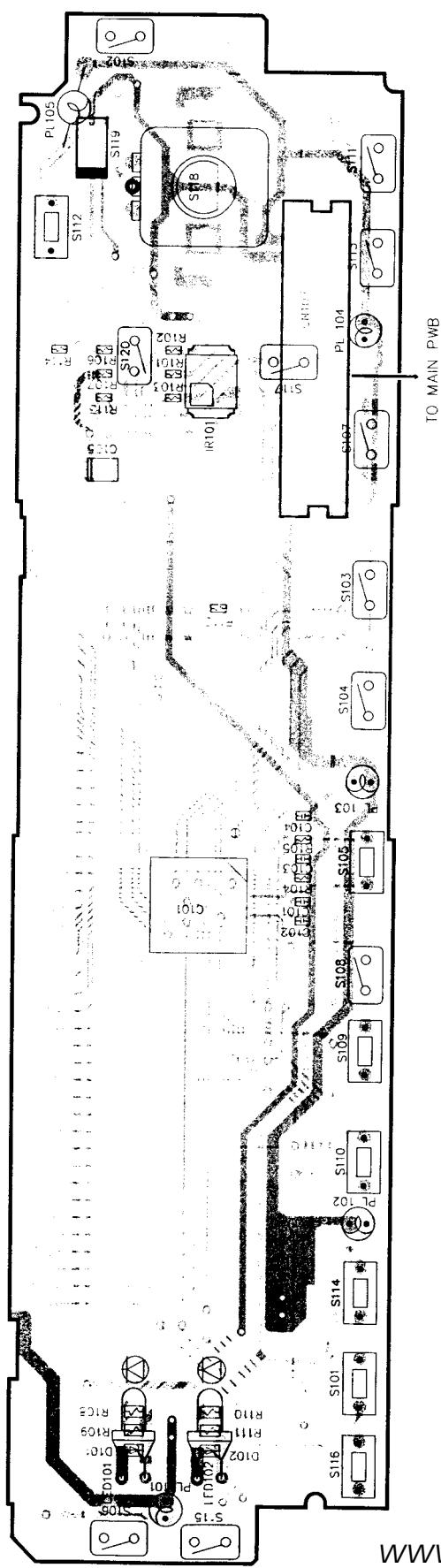
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
CN 102	074-1115-00	OUTLET SOCKET	FUSE	060-0057-57	15A

■ CIRCUIT DIAGRAM:
Switch PWB (B2) section



■ PRINTED WIRING BOARD:

Switch PWB (B2) section

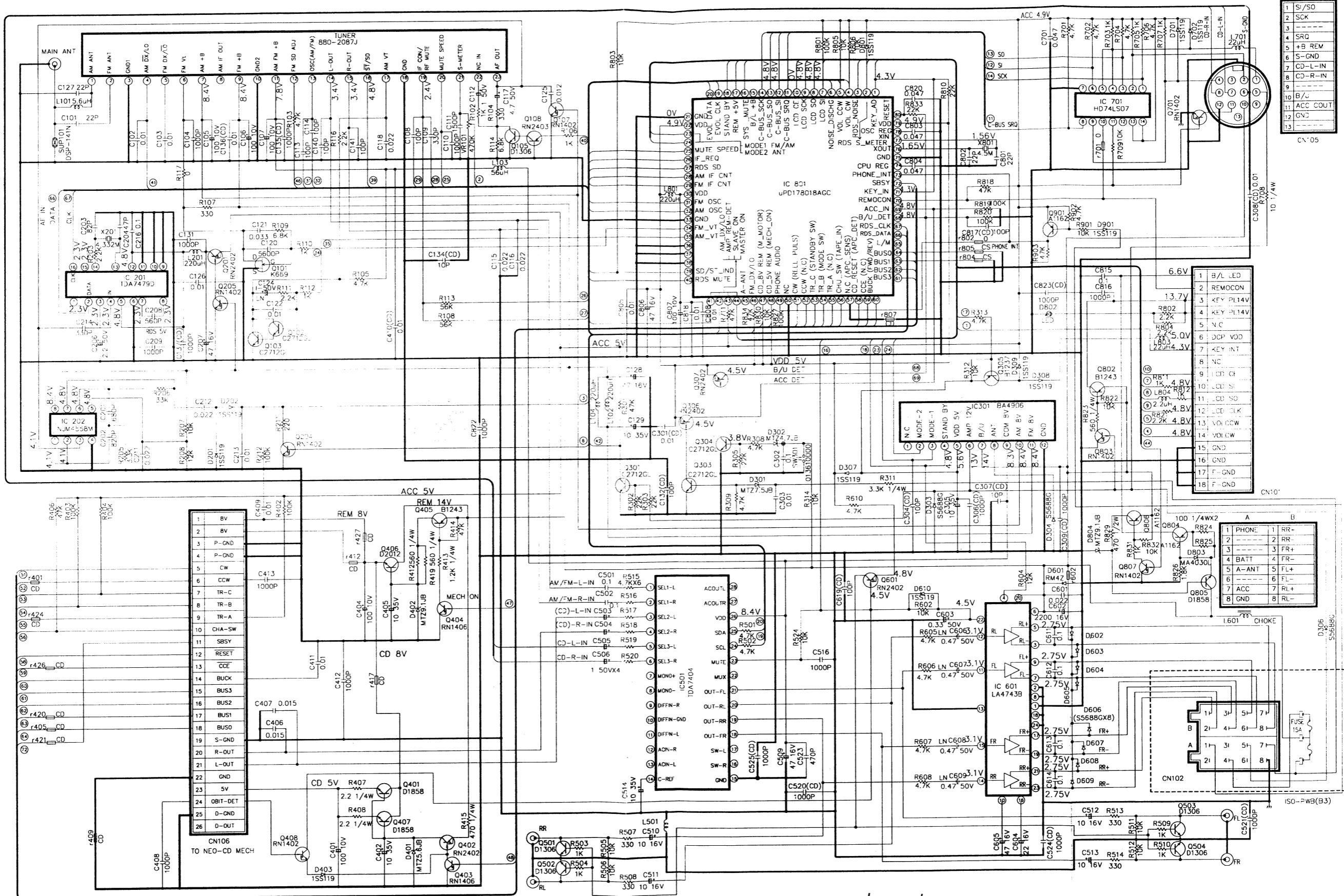


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■ CIRCUIT DIAGRAM:

Main PWB (B1) section

ISO PWB (B3) section



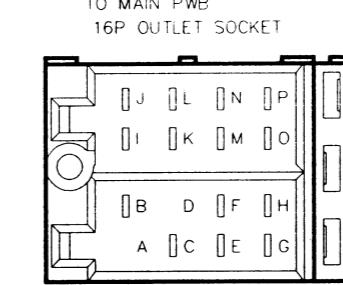
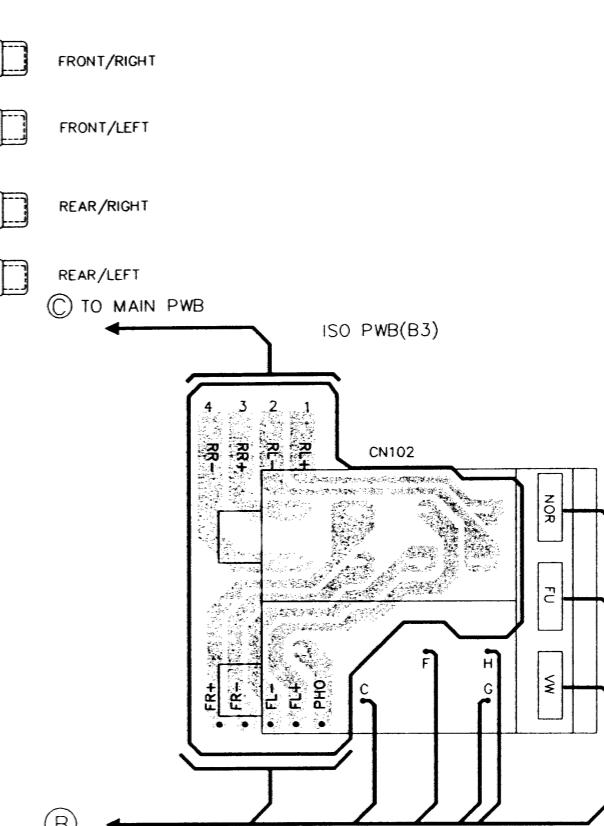
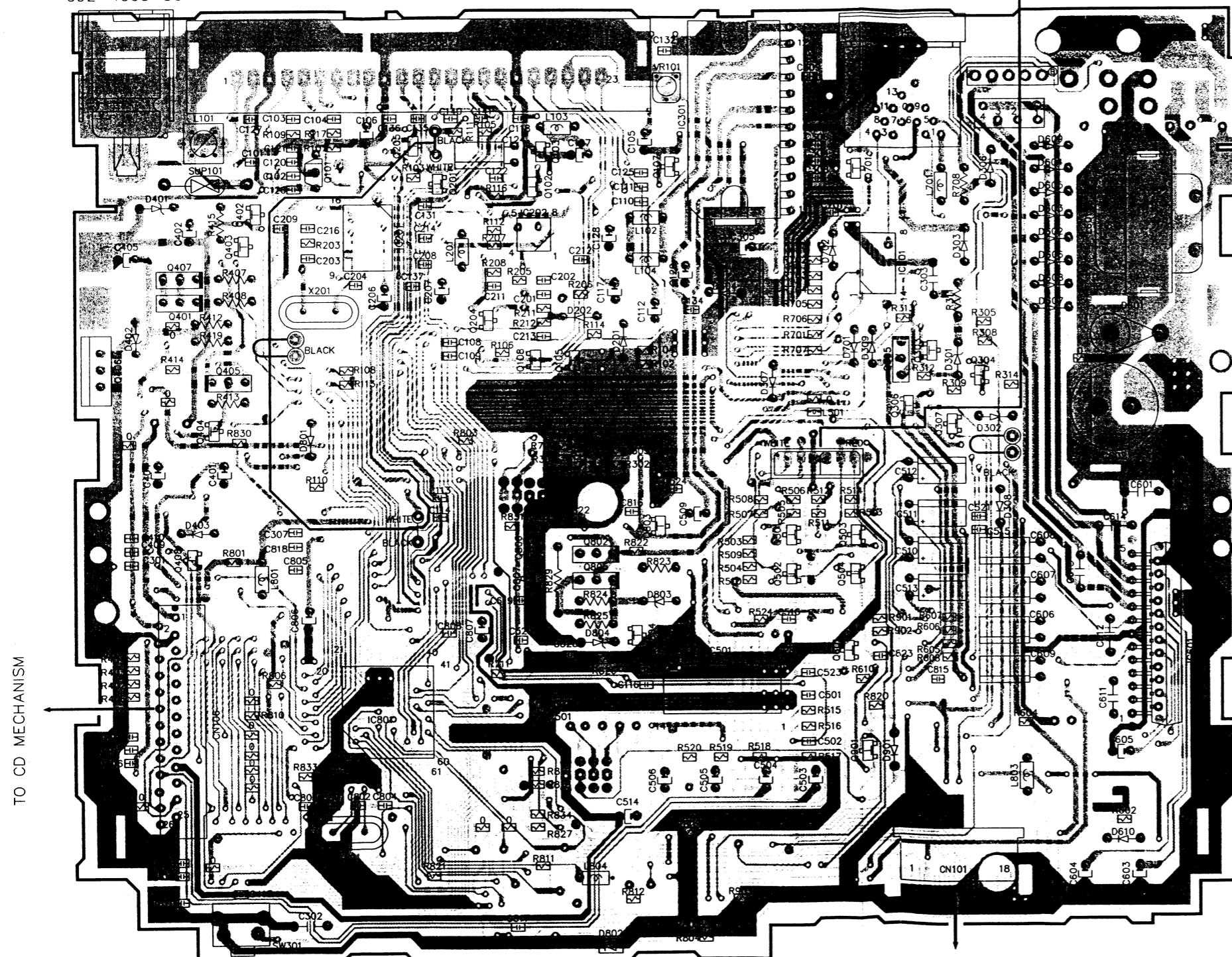
■ PRINTED WIRING BOARD:

Main PWB (B1) section

ISO PWB (B3) section

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092-4000-50



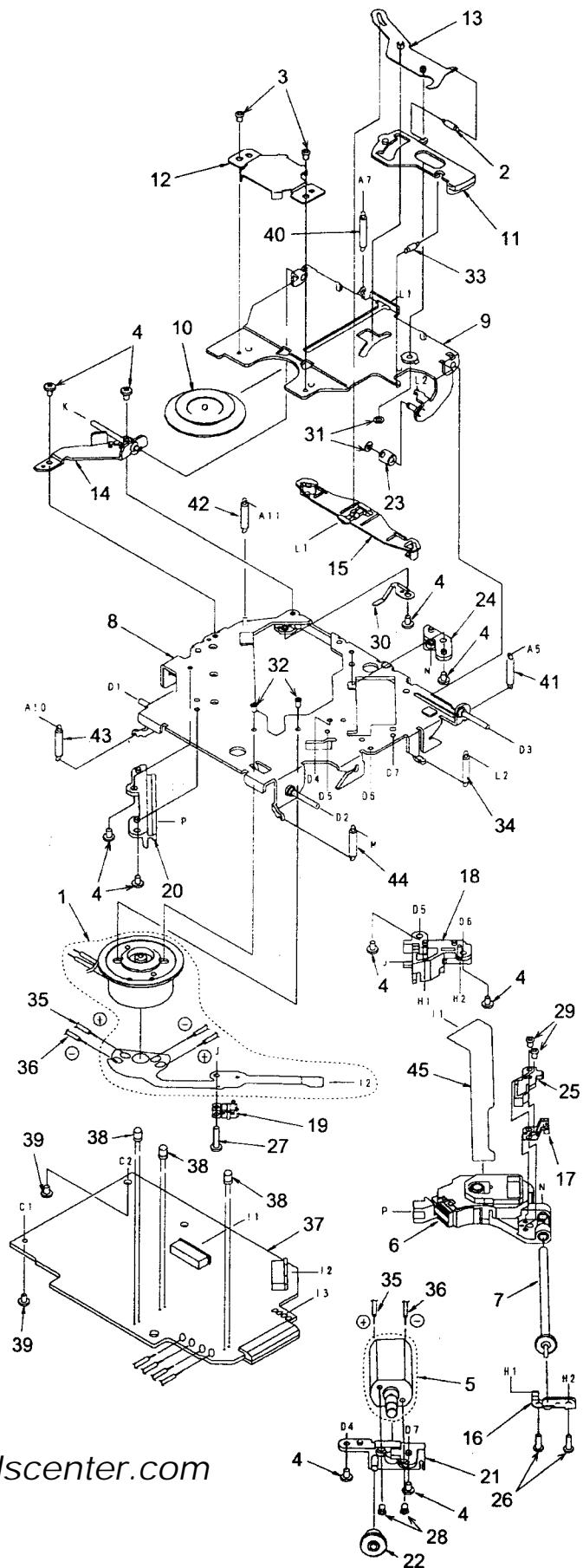
A	B
---	I RR-
PHONE	J RR+
BATT	K FR-
---	L FR+
---	M FL-
REM	N FL+
GND	O RL-
ACC	P RL+

TO SW PWB

■ EXPLODED VIEW:

CD mechanism section 929-0092-82(BB-CD)

Drive unit section



■ PARTS LIST:

CD mechanism section 929-0092-82(BB-CD)

Note) Several different parts of the same reference number are alternative parts.

One of those parts is used in the set.

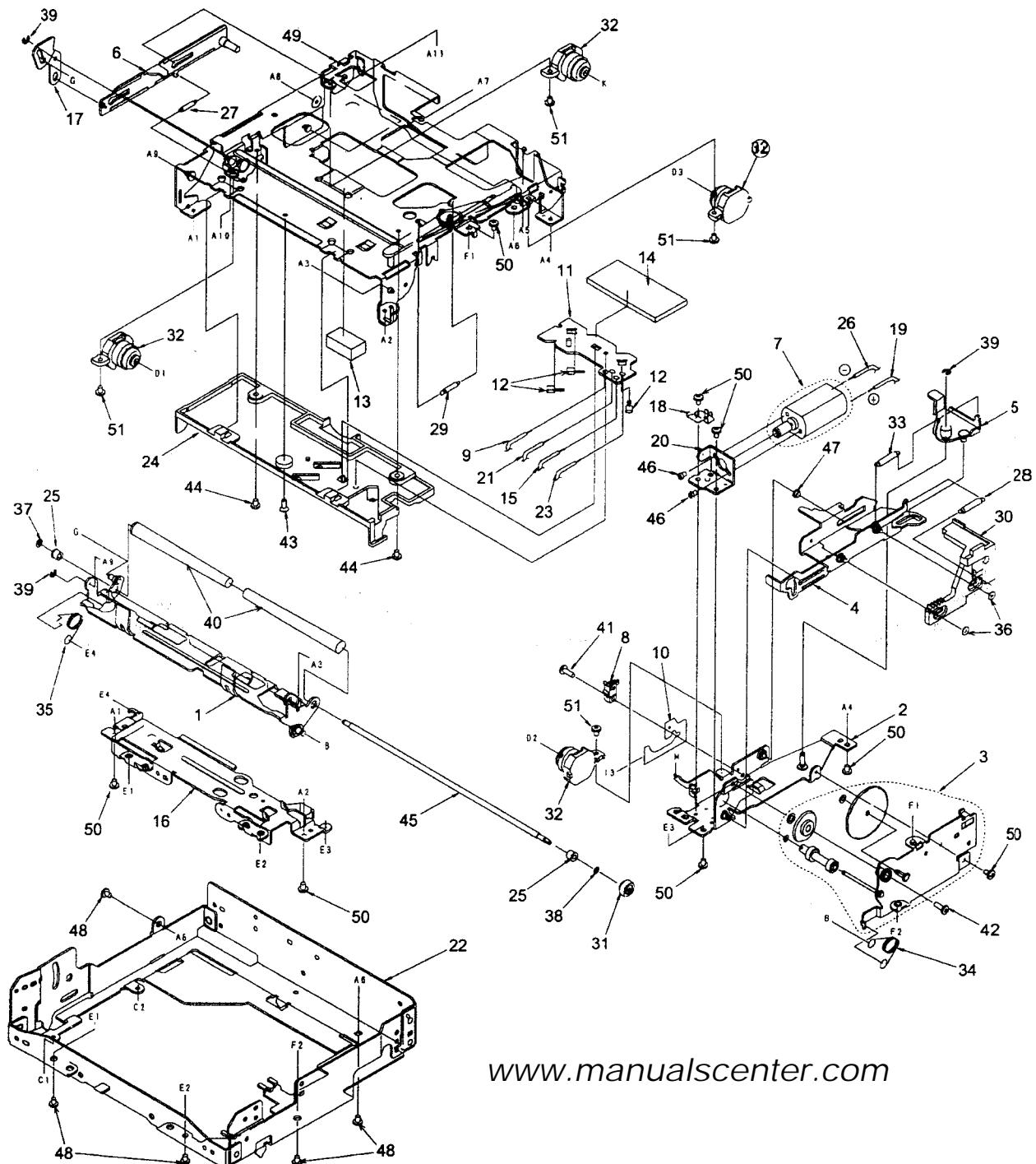
Drive unit section

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 (M2x 2.5)	2
4	716-2003-81	SCREW (M2x 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	966-0447-07	DR-PLATE-ASSY	1
9	966-0449-04	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	966-0448-01	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 (M2x 5.5)	2
27	716-1555-00	WAVE SCREW (φ 2x 8)	1
28	732-2004-11	SEMS SCREW (M2x 4)	2
29	739-1735-17	PRECISION SCREW (M1.7x 3.5)	2
30	620-0690-01	RATTLE PLATE	1
31	746-0761-00	WASHER	2
32	716-1733-00	SCREW (M1.7x 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	039-1732-01	CD PWB (WITHOUT COMPONENT)	1
38	001-0563-00	LED	3
39	716-1670-00	SCREW (M2x 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

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MECH chassis section



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MECH chassis section

NO.	PARTS NO.	DESCRIPTION	Q'TY
1	966-0309-05	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	VINYL-COAT-WIRE(BLK)	1
24	621-0402-01	U-DISC GUIDE-F	1
25	621-0243-02	ROLLER SLEEVE	2

NO.	PARTS NO.	DESCRIPTION	Q'TY
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	ROADING-SPRING-R	1
35	750-3090-02	ROADING-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(M2x 5)	1
42	716-1704-00	SCREW(M2x 7)	1
43	716-1677-00	SCREW(M2x 5)	1
44	716-1507-00	SCREW(M2x 3)	2
45	622-1072-05	ROLLER SHAFT	1
46	716-1468-00	SCREW(M2x 2.5)	2
47	622-1219-01	SHIFT ROLLER	1
48	714-2603-81	SCREW(M2.6x 3)	5
49	966-0308-11	CHASSIS ASSY	1
50	714-2003-81	SCREW(M2x 3)	8
51	716-1670-00	SCREW(M2x 4)	4

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■ ELECTRICAL PARTS LIST:

CD mechanism section (B4)

Note) Several different parts of the same reference number are alternative parts.

One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	163-1073-10	6.3V 100 μ F	C36	176-6801-00	68pF CH	R8	117-1041-10	1/10W 100K Ω
C3	178-1042-78	0.1 μ F	C37	176-2201-00	22pF CH	R9	117-1031-10	1/10W 10K Ω
C4	178-2222-78	2200pF	C38	178-1042-78	0.1 μ F	R10	117-4731-10	1/10W 47K Ω
C5	178-1042-78	0.1 μ F	C39	163-4763-05	4V 47 μ F	R12	117-4741-10	1/10W 470K Ω
C6	178-1042-78	0.1 μ F	C44	178-2242-78	0.22 μ F	R13	117-3331-10	1/10W 33K Ω
C7	178-1042-78	0.1 μ F	C45	178-2242-78	0.22 μ F	R14	117-3321-10	1/10W 3.3K Ω
C8	176-1501-00	15pF CH	C46	163-4763-10	6.3V 47 μ F	R15	117-1031-10	1/10W 10K Ω
C9	176-1501-00	15pF CH	C47	178-8222-78	8200pF	R16	117-3321-10	1/10W 3.3K Ω
C10	176-1201-00	12pF CH	C48	178-1042-78	0.1 μ F	R17	117-3321-10	1/10W 3.3K Ω
C11	178-1042-78	0.1 μ F	C50	163-1073-10	6.3V 100 μ F	R18	117-3321-10	1/10W 3.3K Ω
C13	178-1042-78	0.1 μ F	C51	178-1042-78	0.1 μ F	R19	117-3321-10	1/10W 3.3K Ω
C14	178-1042-78	0.1 μ F	C52	178-2232-78	0.022 μ F	R20	117-3321-10	1/10W 3.3K Ω
C15	178-1042-78	0.1 μ F	C54	176-2201-00	22pF CH	R21	117-2221-10	1/10W 2.2K Ω
C16	178-1042-78	0.1 μ F	C61	178-1042-78	0.1 μ F	R22	117-8211-10	1/10W 820K Ω
C17	163-1073-31	16V 100 μ F	C63	178-1042-78	0.1 μ F	R23	117-9131-10	1/10W 91K Ω
C18	176-4701-00	47pF CH	C64	178-1042-78	0.1 μ F	R24	117-1041-10	1/10W 100K Ω
C19	178-1532-78	0.015 μ F	C65	178-1042-78	0.1 μ F	R25	117-1041-10	1/10W 100K Ω
C20	178-1032-78	0.01 μ F	D4	001-0516-00	MA111	R26	117-1841-10	1/10W 180K Ω
C21	178-2722-78	2700pF	IC1	051-5704-00	TA2096FN	R27	117-1841-10	1/10W 180K Ω
C22	178-4722-78	4700pF	IC2	051-6342-00	TC9462F	R28	117-2211-10	1/10W 220 Ω
C23	178-1042-78	0.1 μ F	IC3	051-6045-08	BA5984FP	R29	117-2201-10	1/10W 22 Ω
C24	178-1042-78	0.1 μ F	J1	074-1138-66	16P	R30	117-1041-10	1/10W 100K Ω
C25	178-1042-78	0.1 μ F	J2	074-1138-06	6P	R31	117-1041-10	1/10W 100K Ω
C26	178-4712-78	470pF	L1	010-2155-93	10 μ H	R32	117-1041-10	1/10W 100K Ω
C27	178-4712-78	470pF	L3	010-2199-74	10 μ H J	R33	117-1041-10	1/10W 100K Ω
C28	178-4732-78	0.047 μ F	Q1	101-1188-50	2SB1188PQR	R34	117-1041-10	1/10W 100K Ω
C29	178-4732-78	0.047 μ F	R1	117-2211-10	1/10W 220 Ω	R35	117-2241-10	1/10W 220K Ω
C30	178-4732-78	0.047 μ F	R2	117-2211-10	1/10W 220 Ω	R36	117-1041-10	1/10W 100K Ω
C31	178-4732-78	0.047 μ F	R3	117-5611-10	1/10W 560 Ω	R37	117-1041-10	1/10W 100K Ω
C32	163-4763-05	4V 47 μ F	R4	117-5611-10	1/10W 560 Ω	R38	117-8231-10	1/10W 82K Ω
C33	163-4763-05	4V 47 μ F	R5	117-4711-10	1/10W 470 Ω	R39	117-1841-10	1/10W 180K Ω
C34	176-1801-00	18pF CH	R6	117-3311-10	1/10W 330 Ω	X1	061-3500-90	16.920MHz
C35	176-6097-00	6pF CH	R7	117-4721-10	1/10W 4.7K Ω			

Sensor PWB section (B5)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
Q101	060-0252-01	PT4850F	Q102	060-0252-01	PT4850F	Q103	060-0252-01	PT4850F

Chuck SW PWB section (B6)

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

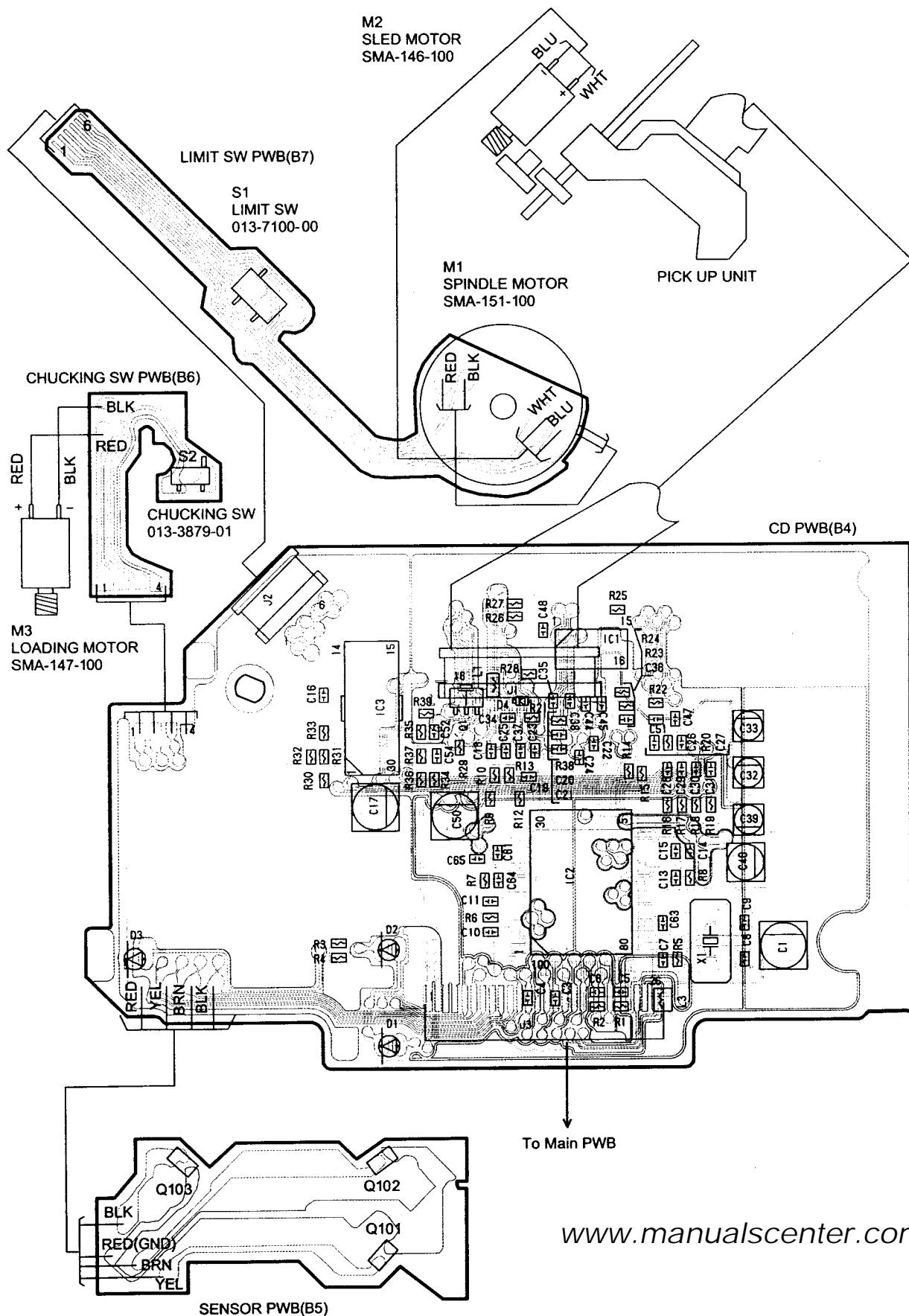
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Limit SW PWB (Motor assy/SMA-151-100) section (B7)

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

■ PRINTED WIRING BOARD:

CD mechanism section: 929-0092-82



■ CIRCUIT DIAGRAM :

CD mechanism section 929-0092-82(BB-CD)

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