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SERVICE MANUAL

MODEL	JP	E3	E2	EK	EA	E1	E1K	E1C
DP-A100		✓	✓					

DIRECT DRIVE TURNTABLE SYSTEM

- For purposes of improvement, specifications and design are subject to change without notice.

- Please use this service manual with referring to the operating instructions without fail.

- Some illustrations using in this service manual are slightly different from the actual set.

DENON

D&M Holdings Inc.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

Be sure to test for leakage current with the AC plug in both polarities, in addition, in each power ON, OFF and STANDBY mode, if applicable.

CAUTION Please heed the points listed below during servicing and inspection.

◎ Heed the cautions!

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis, etc., have cautions indicated on labels. Be sure to heed these cautions and the cautions indicated in the handling instructions.

◎ Caution concerning electric shock!

(1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.

(2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ Caution concerning disassembly and assembly!

Through great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

◎ Only use designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same properties. In particular, for the important safety parts that are marked  on wiring diagrams and parts lists, be sure to use the designated parts.

◎ Be sure to mount parts and arrange the wires as they were originally!

For safety reasons, some parts use tape, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires and clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

◎ Inspect for safety after servicing!

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists in this service manual. Be sure to replace them with parts with the designated part number.

(1) Schematic diagrams Indicated by the  mark.

(2) Parts lists Indicated by the  mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts marked with this symbol $\triangle$ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM / M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

NOTE FOR PARTS LIST

- Parts for which "nsp" is indicated on this table cannot be supplied.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING: Parts marked with this symbol $\triangle$ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN 14K 2E 182 G FR

Type	Shape and performance	Power	Resistance	Allowable error	Others
RD: Carbon	2B: 1/8 W	F: $\pm 1\%$	P: Pulse-resistant type		
RC: Composition	2E: 1/4 W	G: $\pm 2\%$	NL: Low noise type		
RS: Metal oxide film	2H: 1/2 W	J: $\pm 5\%$	NB: Non-burning type		
RW: winding	3A: 1 W	K: $\pm 10\%$	FR: Fuse-resistor		
RN: Metal film	3D: 2 W	M: $\pm 20\%$	F: Lead wire forming		
RK: Metal mixture	3F: 3 W				
	3H: 5 W				

* Resistance

$\frac{1}{\uparrow} \frac{8}{\uparrow} \frac{2}{\uparrow} \Rightarrow 1800\text{ohm}=1.8\text{kohm}$
 Indicates number of zeros after effective number.
 2-digit effective number.
 $\frac{1}{\uparrow} \frac{R}{\uparrow} \frac{2}{\uparrow} \Rightarrow 1.2\text{ohm}$
 1-digit effective number.
 2-digit effective number, decimal point indicated by R.
 : Units: ohm

● Capacitors

Ex.: CE 04W 1H 3R2 M BP

Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
CE: Aluminum foil electrolytic	0J: 6.3 V	F: $\pm 1\%$	HS: High stability type		
CA: Aluminium solid electrolytic	1A: 10 V	G: $\pm 2\%$	BP: Non-polar type		
CS: Tantalum electrolytic	1C: 16 V	J: $\pm 5\%$	HR: Ripple-resistant type		
CQ: Film	1E: 25 V	K: $\pm 10\%$	DL: For charge and discharge		
CK: Ceramic	1V: 35 V	M: $\pm 20\%$	HF: For assuring high frequency		
CC: Ceramic	1H: 50 V	Z: $\pm 80\%$	U: UL part		
CP: Oil	2A: 100 V	P: +100%	C: CSA part		
CM: Mica	2B: 125 V	C: $\pm 0.25\text{pF}$	W: UL-CSA part		
CF: Metallized	2C: 160 V	D: $\pm 0.5\text{pF}$	F: Lead wire forming		
CH: Metallized	2E: 250 V	=: Others			
	2H: 500 V				
	2J: 630 V				

* Capacity (electrolyte only)

$\frac{2}{\uparrow} \frac{2}{\uparrow} \frac{2}{\uparrow} \Rightarrow 2200 \mu\text{F}$
 Indicates number of zeros after effective number.
 • Units: μF .
 $\frac{2}{\uparrow} \frac{R}{\uparrow} \frac{2}{\uparrow} \Rightarrow 2.2 \mu\text{F}$
 1-digit effective number.
 2-digit effective number, decimal point indicated by R
 • Units: μF .

* Capacity (except electrolyte)

$\frac{2}{\uparrow} \frac{2}{\uparrow} \frac{2}{\uparrow} \Rightarrow 2200\text{pF}=0.0022 \mu\text{F}$
 Indicates number of zeros after effective number. (More than 2)
 2-digit effective number.
 • Units:pF
 $\frac{2}{\uparrow} \frac{2}{\uparrow} \frac{1}{\uparrow} \Rightarrow 220\text{pF}$
 Indicates number of zeros after effective number. (0 or 1)
 2-digit effective number.
 • Units:pF

• When the dielectric strength is indicated in AC,"AC" is included after the dielectric strength value.

TECHNICAL SPECIFICATIONS

Turntable section

Driving system : Servo system direct drive
Speed : 33-1/3rpm, 45rpm
Wow & flutter : Less than 0.1 % WRMS
Starting time : Specified speed within 0.3 sec (for 33 rpm)
Turntable : Aluminum die-cast, 331 mm (13-1/32") in diameter
Motor : Direct-drive motor
Speed control system : Quartz control
Load characteristics : 0 % with the stylus pressure 80 g (2.8 oz)
Speed deviation : Within ± 0.003 %

Tone arm section

Arm form : Static balance S-shaped pipe arm
Effective arm length : 244 mm (9-39/64")
Overhang : 14 mm (35/64")
Tracking error : within 3°
Arm height adjustable range : about 6 mm (15/64")
Stylus pressure variable range : 0 to 4.0 g (0.14 oz)
One step 0.1 g
Suitable cartridge empty weight : 4 to 10 g (0.14 oz to 0.35 oz)
Head shell weight :
18 g (0.63 oz, including screws, nuts, nylon washers)
Cartridge spacer weight : 0.25 g (0.01 oz, 1 sheet)

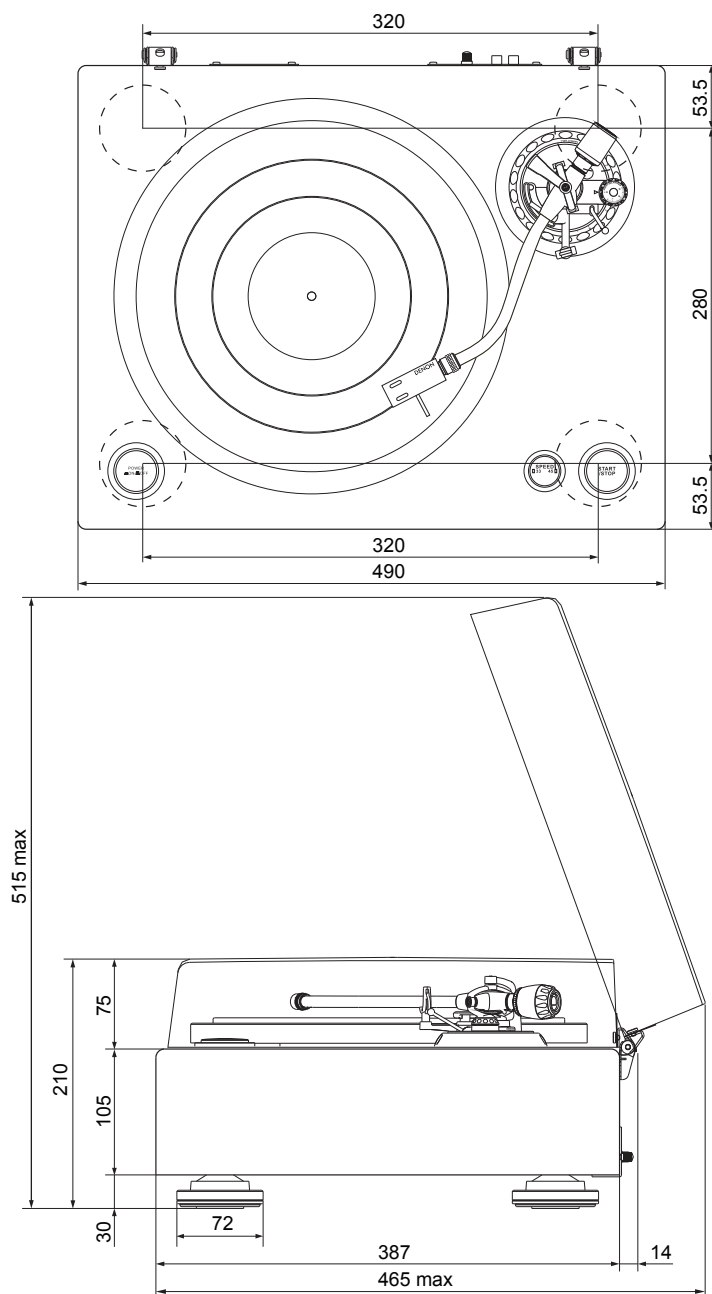
Total

Power supply : AC 120 V, 60 Hz
Power consumption : 10 W
Maximum external dimensions :
With dust cover closed:
490 (W) $\times$ 213 (H) $\times$ 405 (D) mm (19-19/64" $\times$ 8-25/64" $\times$ 15-15/16")
With dust cover open:
490 (W) $\times$ 515 (H) $\times$ 465 (D) mm (19-19/64" $\times$ 20-9/32" $\times$ 18-5/16")
Weight : 15.7 kg (0.55 oz)

Cartridge (DL-A100)

Power generation method : Moving coil (MC) type
Output voltage : 0.3 mV (1 kHz 50 mm/sec horizontally)
Channel balance : within 1 dB (1 kHz)
Channel separation : more than 25dB (1 kHz)
Impedance : 40 Ω $\pm$ 20 %
Compliance : 5 $\times$ 10⁻⁶ cm/dyne (used 100 Hz record)
Stylus tip : 0.2 mm (1/64") square solid diamond
Stylus pressure : 2.5 g $\pm$ 0.3 g (0.09 oz $\pm$ 0.01 oz)
Frequency response : 20 Hz to 45 kHz
Weight : 8.8 g (0.31 oz)
Load resistance : more than 100 Ω (40 Ω when a transformer is used)
Maximum external dimensions :
15 (W) $\times$ 15 (H) $\times$ 26.8 (D) mm (19/32" $\times$ 19/32" $\times$ 1-1/16")

DIMENSION

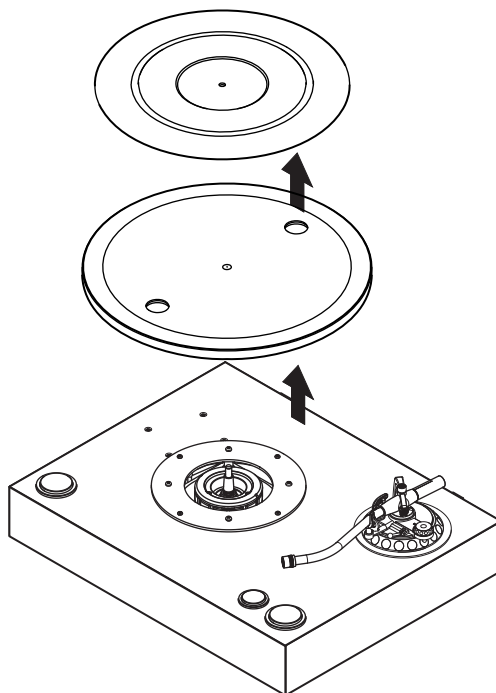


DISASSEMBLY

- Follow the procedure below in reverse order when reassembling.
- If wire bundles are untied or moved to perform adjustment or parts replacement etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
Otherwise, incorrect arrangement can be a cause of noise generation.

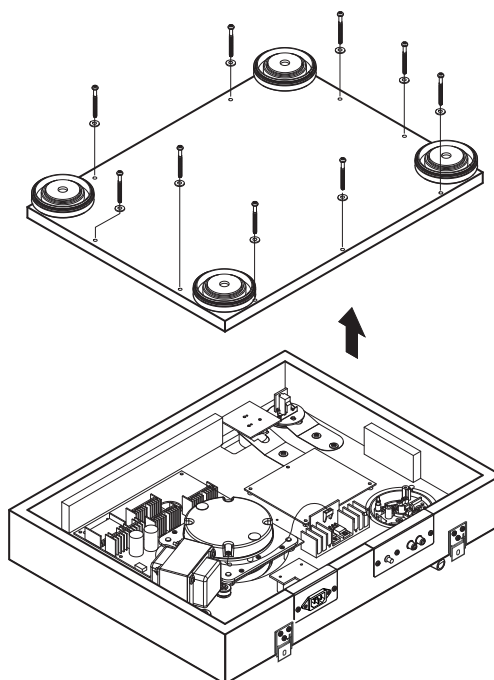
1. Platter

- (1) Detach the rubber mat to the arrow direction.
- (2) Put a finger through the round hold in the platter and lift straight up to remove the platter.



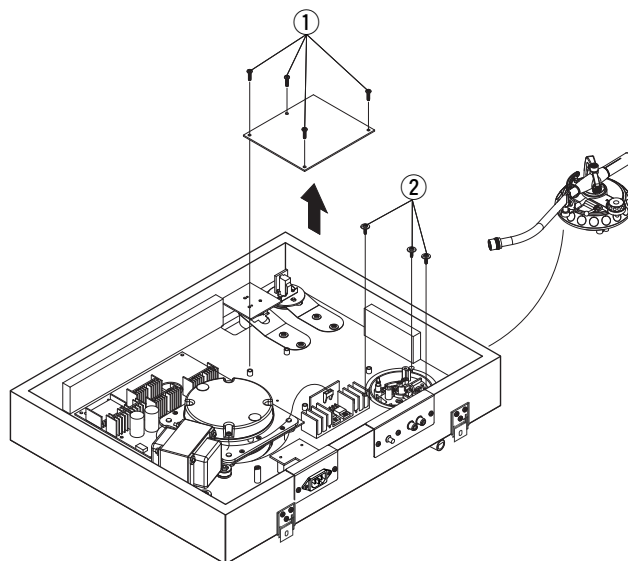
2. Bottom Cover

- (1) Place the set upside down so that the tone arm base does not hit the installation rack and so that the cabinet does not get scratched.
- (2) Remove 9 screws from the bottom side.
- (3) Detach the Bottom Cover to the arrow direction.



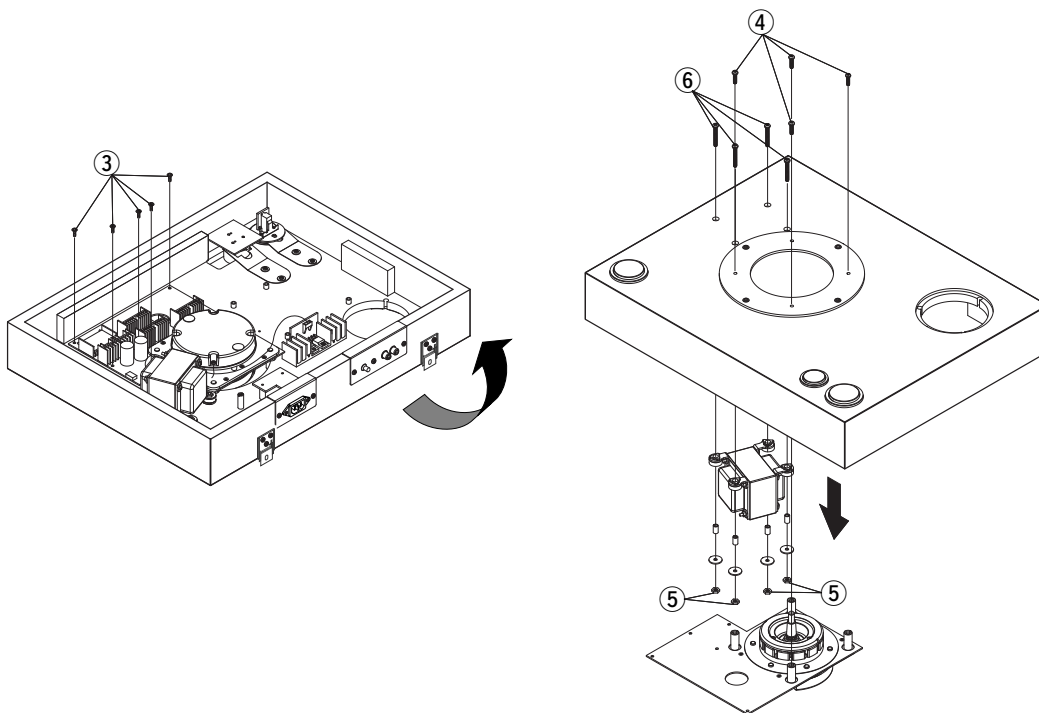
3. Main P.W.B. unit and Tone Arm Base

- (1) Remove 4 screws ① from the Main P.W.B. unit.
- (2) Remove the soldering from the tone arm signal wire connected to the output board. When assembling, solder as indicated on the wiring diagram.
- (3) Holding the tone arm base down, remove the 3 screws ③ fixing the tone arm base.



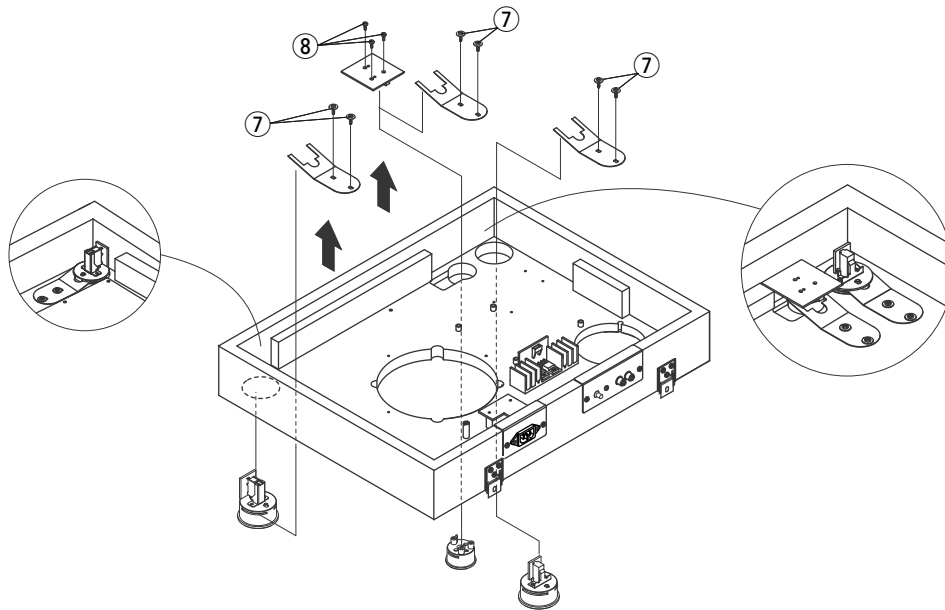
4. Motor unit P.W.B and Power Trans

- (1) Remove 5 screws ③ from the Motor unit P.W.B..
- (2) Remove the soldering from the ground wire connecting the Motor unit P.W.B. and output board.
- (3) Turn the set upside down.
- (4) Holding the motor unit board down, remove the 4 screws ④ fixing the Motor unit P.W.B..
- (5) Holding down the nuts ⑤, remove the 4 screws ⑥ fixing the transformer.



5. KNOB ASS'Y

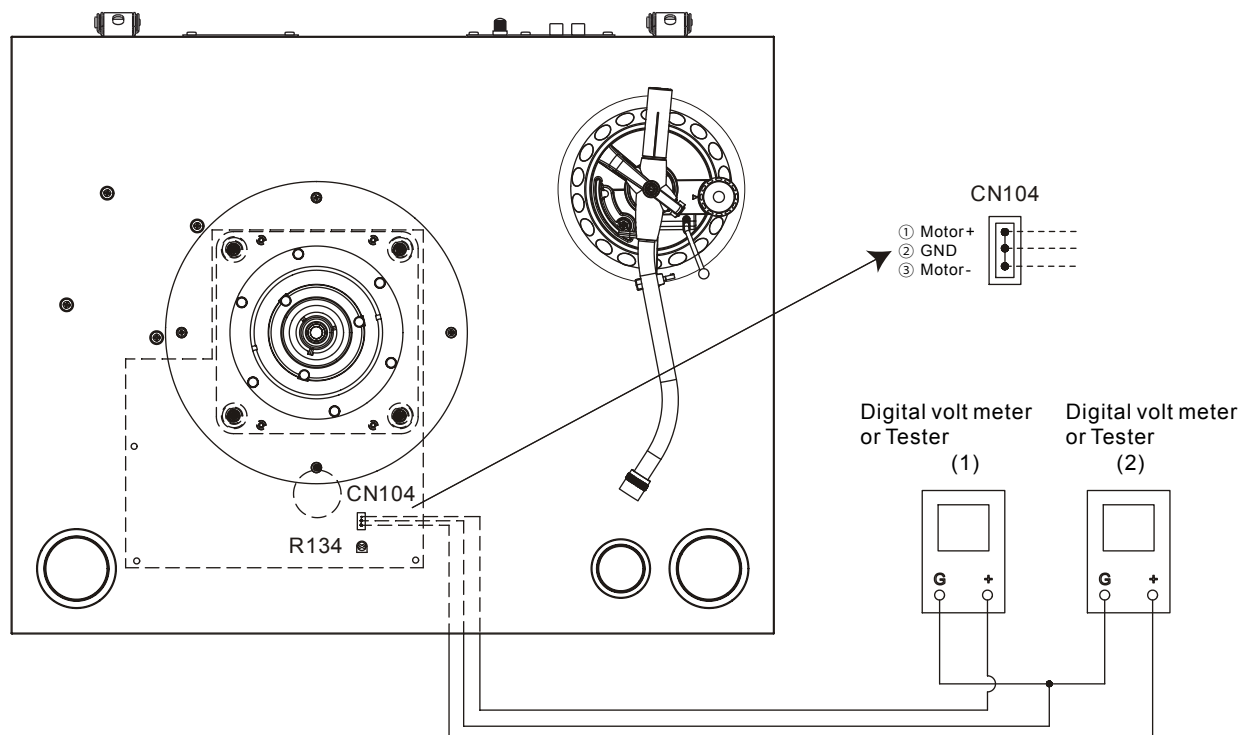
- (1) Remove the 2 screws ⑦ each fixing the KNOB ASS'Y fixing plate.
- (2) Remove the 3 screws ⑧ each fixing the 33/45 unit P.W.B..
- (3) Pull out the KNOB ASS'Y fixing plate and remove the KNOB ASS'Y.



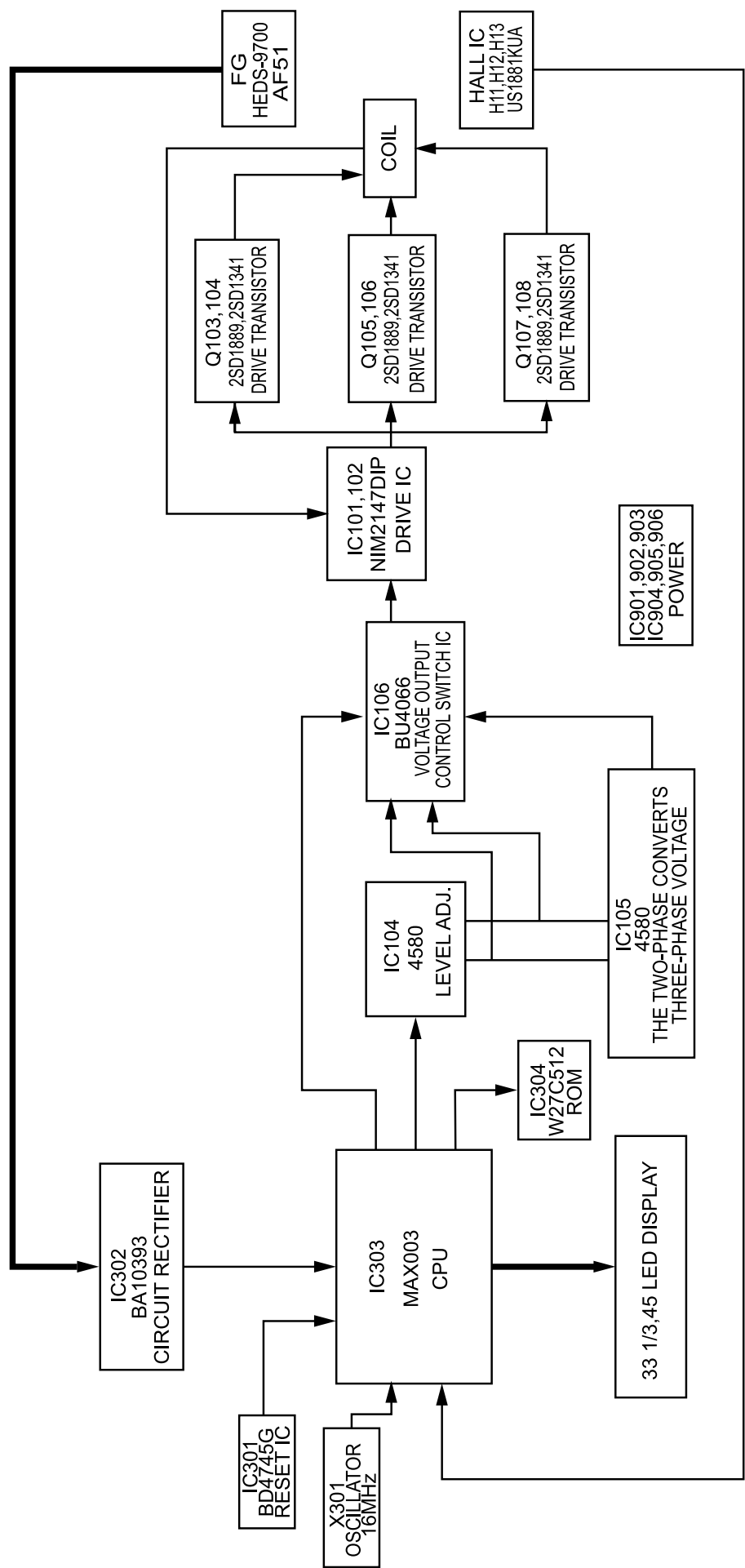
ADJUSTMENT

Electrical Adjustment for Wow and Flutter

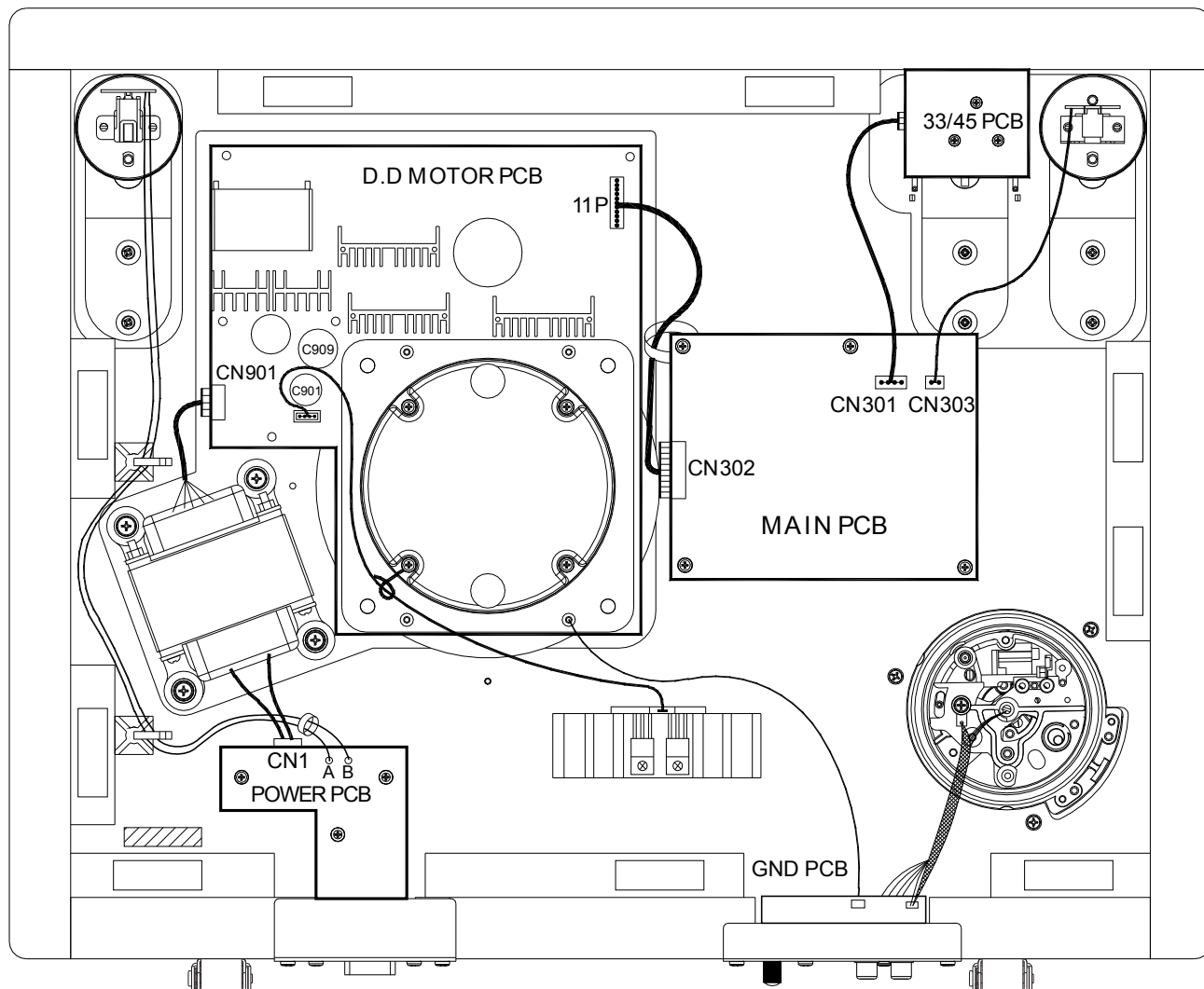
- (1) Detach the turntable and turn over the set.
- (2) Open the bottom cover.
- (3) Connect a digital volt meter or tester to CN104 (3P) on the Motor P.W.B..
- (4) Turn on the power. Set the speed to 33 rpm.
- (5) Insert a screwdriver into R134 (variable resistor) and adjust so that the absolute values of the two digital volt meters or testers are closest.



BLOCK DIAGRAM

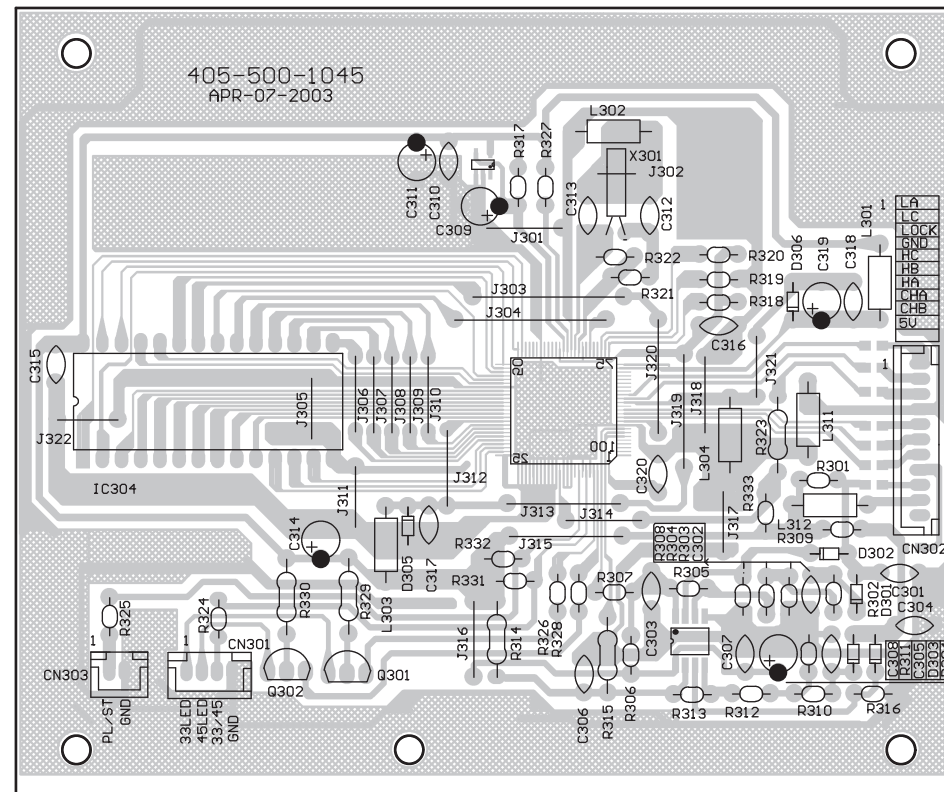


WIRING DIAGRAM

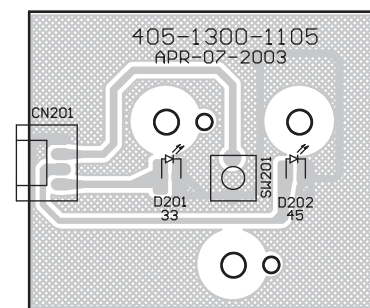


MAIN P.W.B. UNIT

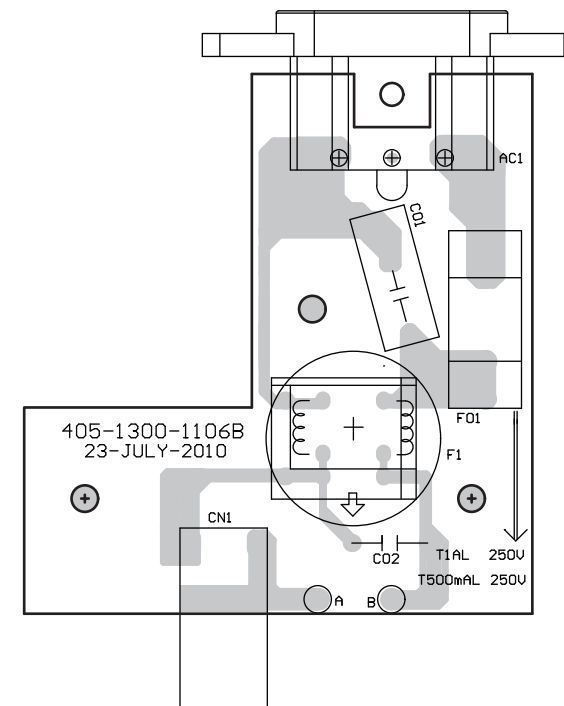
COMPONENT SIDE



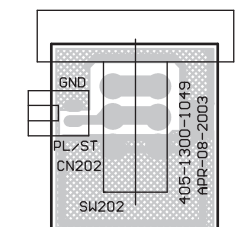
AC P.W.B. UNIT



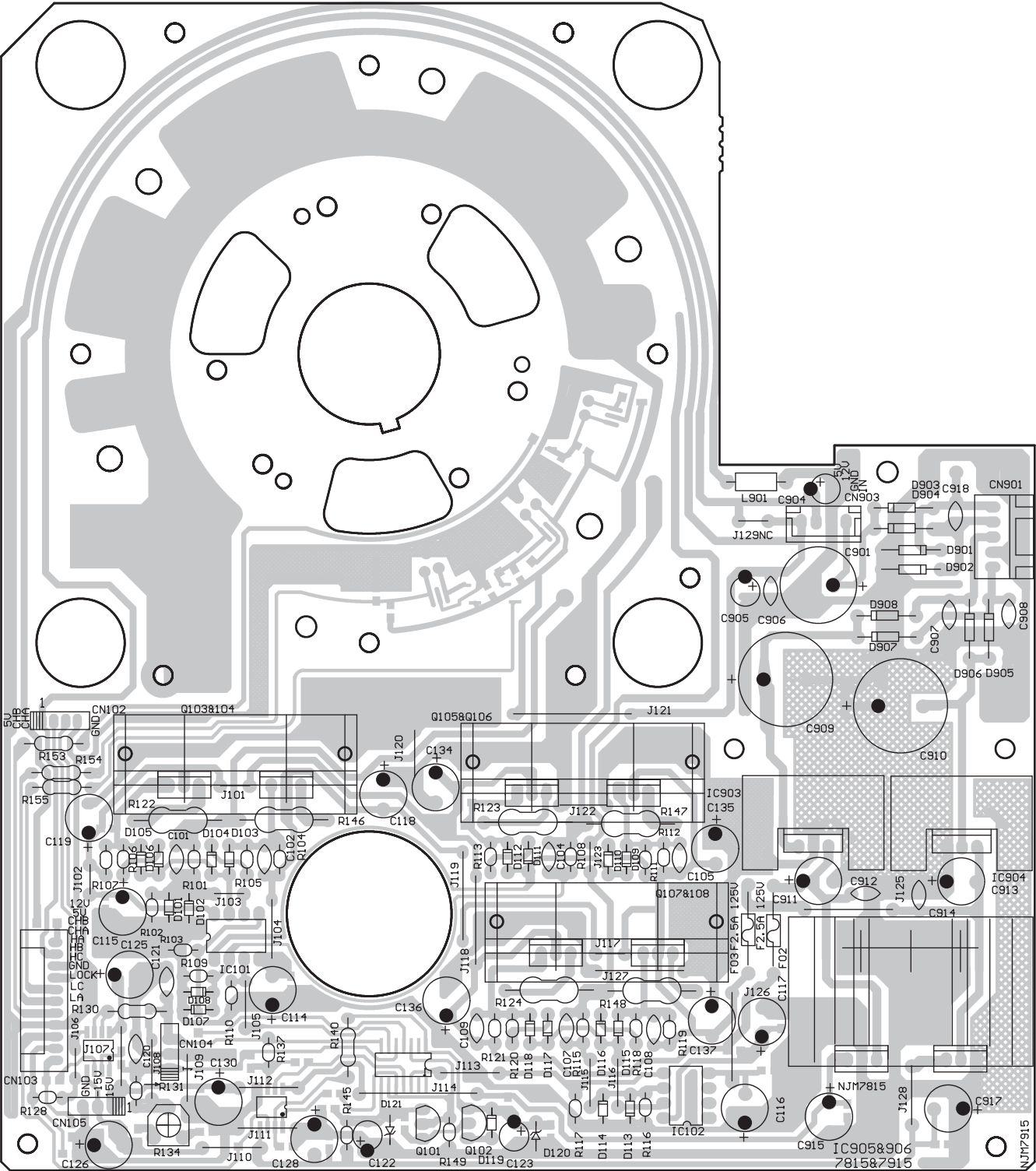
COMPONENT SIDE



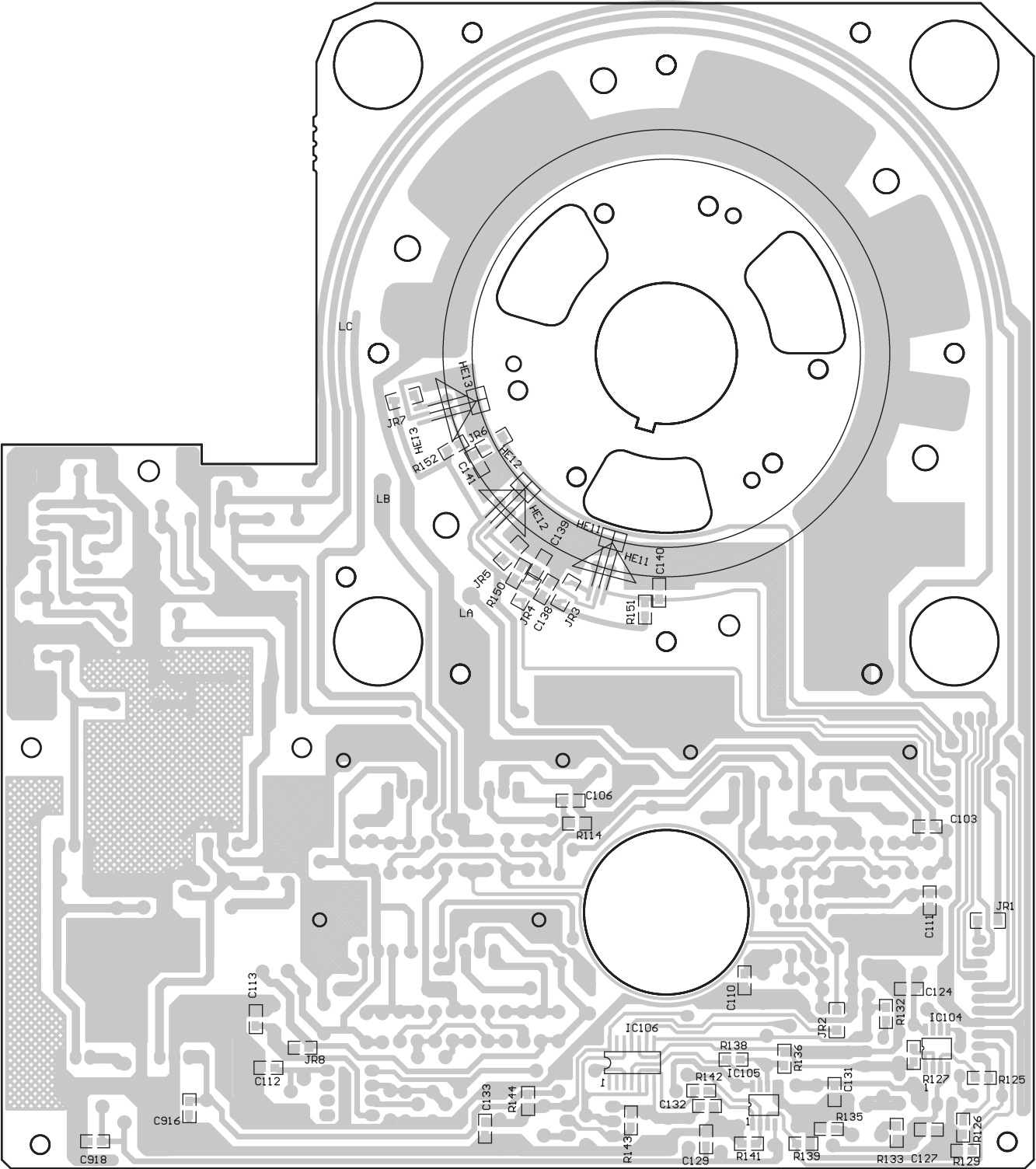
COMPONENT SIDE



When soldering, use the Lead-free Solder (Sn-Ag-Cu).



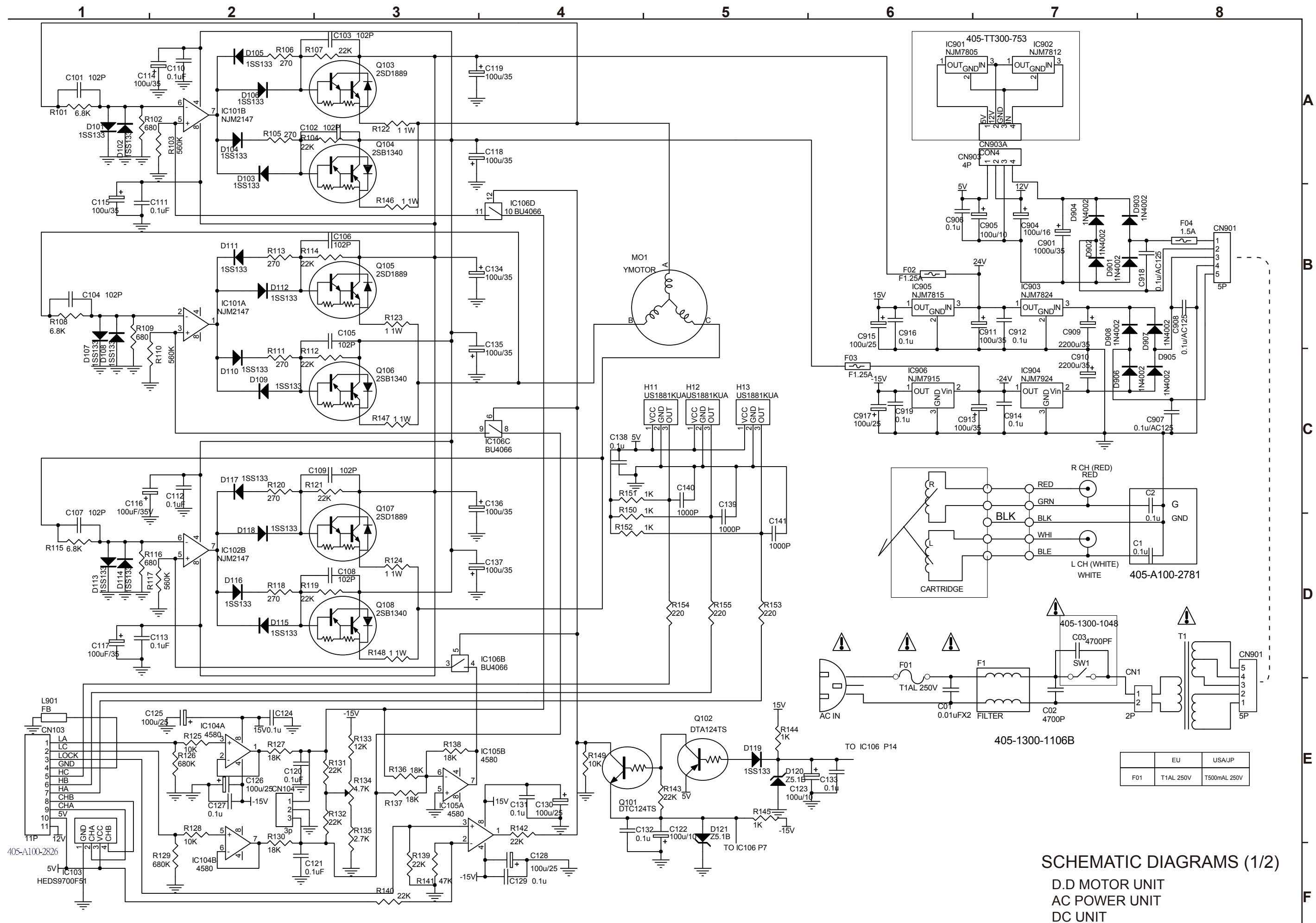
COMPONENT SIDE

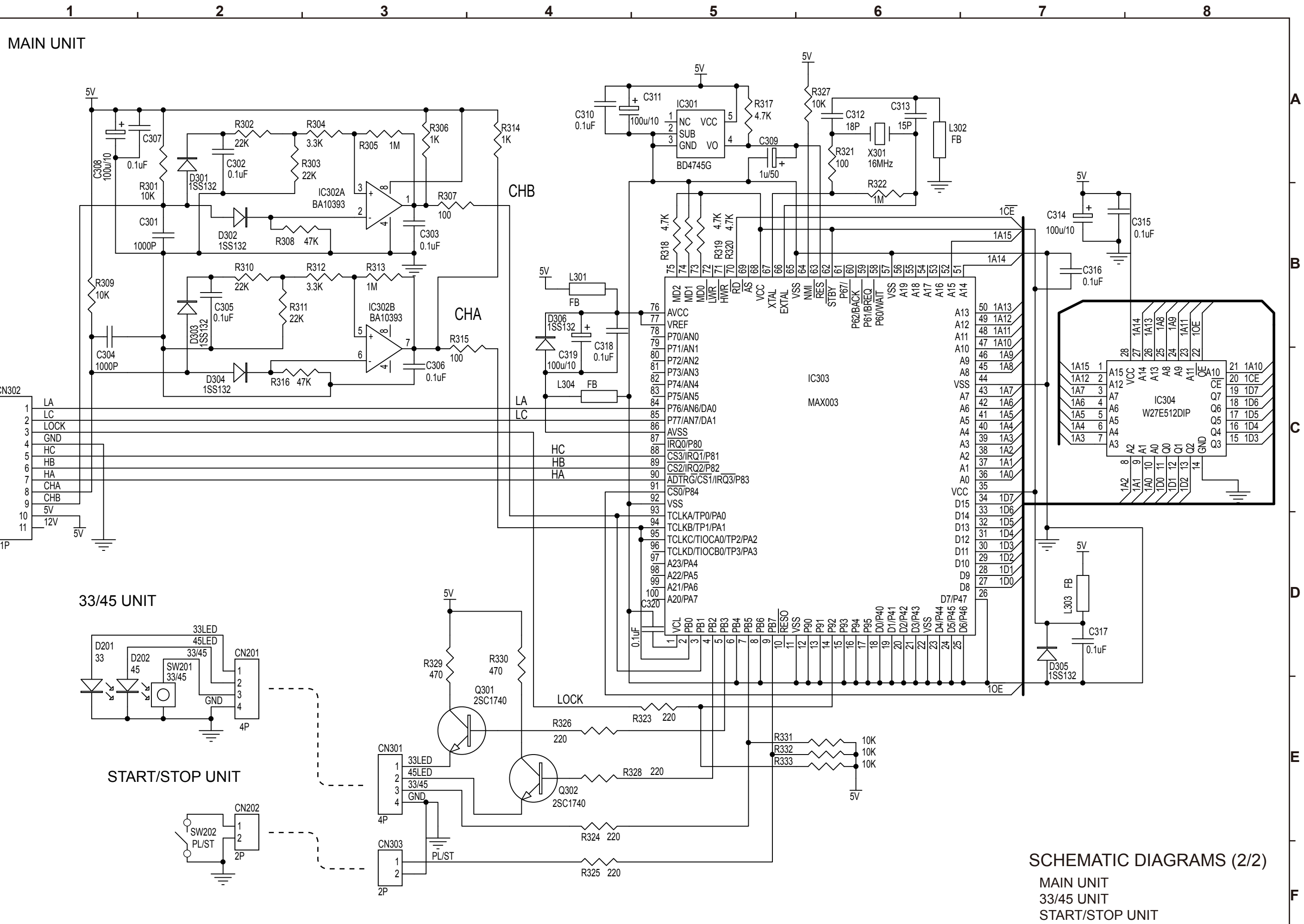


FOIL SIDE

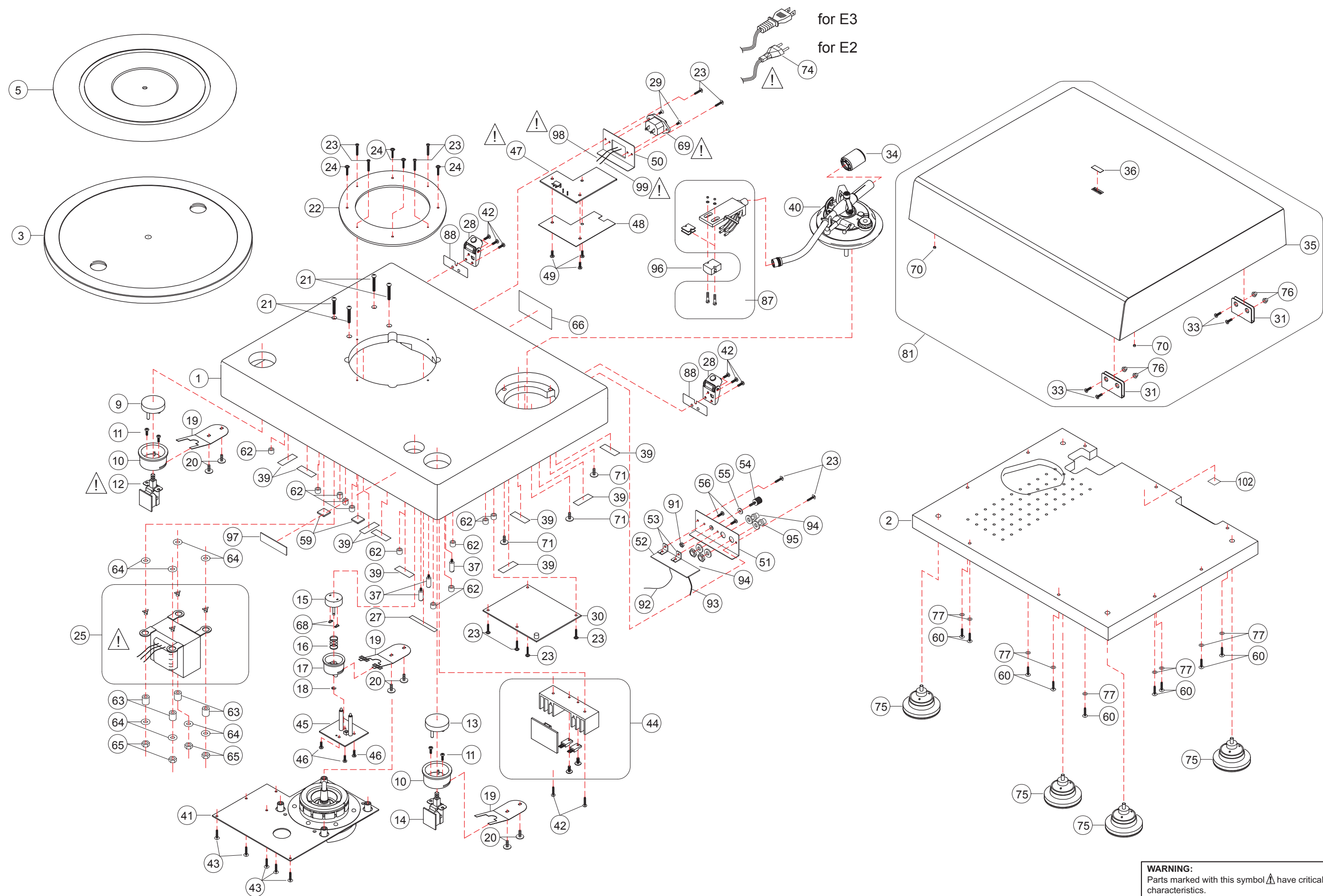
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).



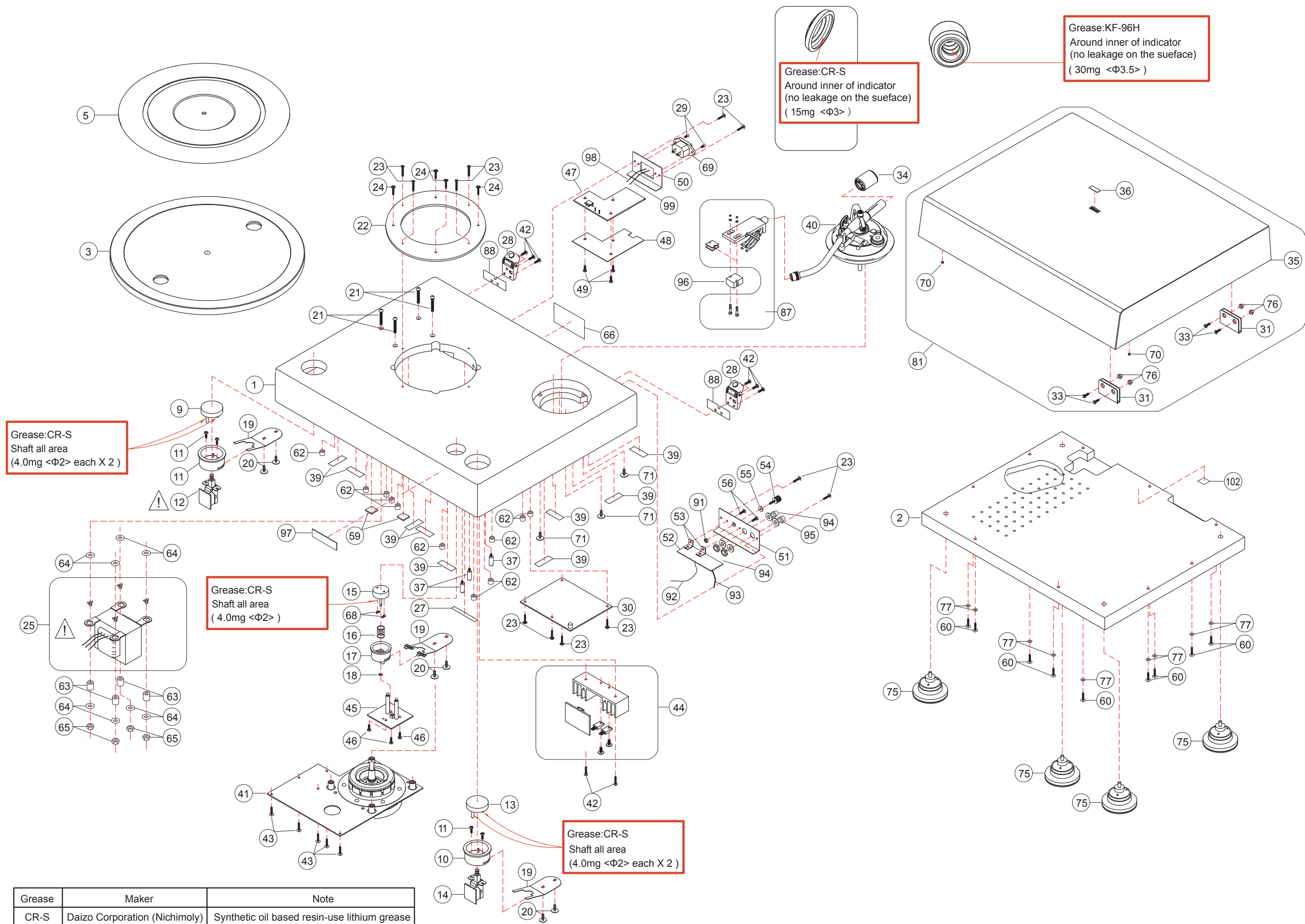


EXPLODED VIEW



WARNING:
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

POINTS OF GREASING



Grease	Maker	Note
CR-S	Daizo Corporation (Nichimoly)	Synthetic oil based resin-use lithium grease
KF-96H	Shin-Etsu Chemical Co., Ltd.	Dimethyl silicone fluid 100.000mm ² /s

PARTS LIST OF EXPLODED VIEW

* Parts for which "nsp" is indicated on this table cannot be supplied.

* P.W.B. ASS'Y for which "nsp" is indicated on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts table and order replacement parts.

* Part indicated with the mark "★" is not illustrated in the exploded view.

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

E3 : U.S.A. & Canada model

E2 : Europe model

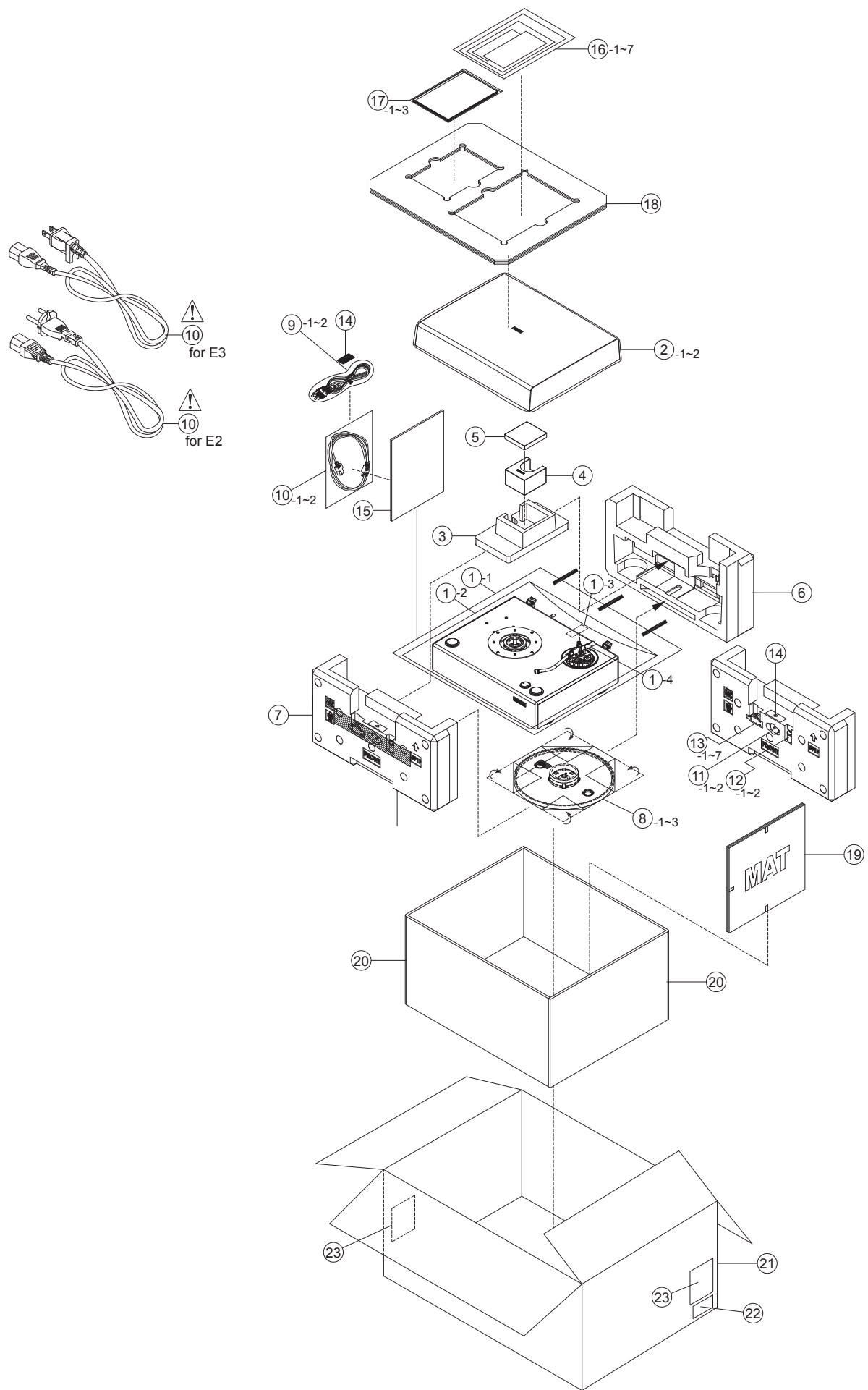
	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New	
	A	941401004130D	CABINET&BOTTOMASSY DPA100		703-A100-1314	1	*	
	1	nsp	CHASSIS ASSY		-			
	2	nsp	BOTTOM BASE ASSY		-			
	3	00D9410026206	ALUMINUM PLATTER ASSY		702-1300-041	1		
	5	00D9410015204	SLIPMAT PACKING ASSY		705-500-867	1		
	9	00D9410027001	POWER BUTTON		701-1300-2920	1		
	10	nsp	BUTTON FRAME		100-1300-2094	2		
	11	nsp	SCREW		602-2002-085	4		
	12	00D9410015505	POWER SW		403-1300-180	1		
	13	00D9410027205	START/STOP BUTTON		701-1300-2919	1		
	14	00D9410015806	PUSH SW		403-1300-181	1		
	15	00D9410027302	33/45 BUTTON		701-1300-2923	1		
	16	nsp	SPRING FOR BUTTON		603-500-289	1		
	17	nsp	33/45 BUTTON FRAME		701-1300-2921	1		
	18	nsp	E-RING WASHER		606-F200-011	1		
	19	nsp	SHIELDING PLATE FOR BUTTON		300-5500-1006	3		
	20	nsp	SCREW		602-1300-474	6		
	21	nsp	SCREW		602-500-471	4		
	22	nsp	MOTOR FIXING METAL PLATE		300-5500-1007	1		
	23	nsp	SCREW		602-500-469	12		
	24	nsp	SCREW		602-500-470	4		
	25	941101003520D	TRANSFORMER (E2)	E2	411-A100-813	1	*	
	25	941101003510D	TRANSFORMER (E3)	E3	411-A100-812	1	*	
	27	nsp	FUSE LABEL	E2	501-PRODJ2-1298	1		
	27	nsp	FUSE LABEL	E3	501-PRODJ2-1298A	1	*	
	28	nsp	HINGE ASSY		703-1300-757A	2		
	29	nsp	SCREW		602-KMD510-161	2		
	30	nsp	MAIN PCB ASSY		704-1300-4436	1		
	81	00D9410026002	DUST COVER ASSY		701-1300-2924	1		
	31	nsp	HINGE FIXING PLATE		300-5500-1008A	2		
	33	nsp	SCREW		602-1300-468	4		
	35	nsp	DUST COVER		701-1300-2121	1		
	36	nsp	DECORATIVE PLATE FOR DUST COVER		501-5500-1661	1		
	70	nsp	BUSHING		604-1300-285	2		
	76	nsp	NUT		601-1300-023	4		
	34	941409003420D	COUNTER WEIGHT ASSY		702-A100-069	1	*	
	37	nsp	FIXING PILLAR		200-1300-347	3	*	
	39	nsp	MAT RUBBER		604-5500-269	9		
	40	941306003570D	TONEARM ASSY		704-A100-9420	1	*	
	41	941306003560D	MOTOR ASSY		704-A100-9423	1	*	
	42	nsp	SCREW		602-1300-472	8		
	43	nsp	SCREW		602-1300-476	5		
	44	nsp	DC PCB ASSY		704-1300-4437	1		
	45	nsp	33/45 PCB ASSY		704-1300-4438	1		
	46	nsp	SCREW		602-B600-057	3		
	47	nsp	AC PCB ASSY	E2	704-A100E2-9440	1	*	

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
⚠	47	nsp	AC PCB ASSY	E3	704-A100E3-9537	1	*
	48	nsp	SHEET		501-5500-1666	1	
	49	nsp	SCREW		602-2002-085	3	
	50	nsp	AC CORD FIXING PLATE		300-5500-1005	1	
	51	nsp	RCA FIXING PLATE		703-A100-1312	1	*
	52	nsp	GND PCB ASSY		704-A100-9422	1	*
	53	nsp	BRACKET(L TYPE)		300-HDJ7000-472	2	
	54	nsp	GROUND PIN		200-DJ100-231	1	
	55	nsp	WASHER		606-Q2221-122	1	
	56	nsp	SCREW		602-2002-085	2	
	59	nsp	ADHESIVE BACKED MOUNT		504-HDJ7000-032	2	
	60	nsp	SCREW		602-1300-475	9	
	62	nsp	PCB FIXING PILLAR		200-500-346	11	
	63	nsp	TRANSFORMER FOR FIXING PILLAR		200-ST150-332	4	
	64	nsp	WASHER		606-ST150-157	8	
	65	nsp	NUT		601-F200-001	4	
	66	nsp	RATING LABEL (E2)	E2	502-A100E2-2373	1	*
	66	nsp	RATING LABEL (E3)	E3	502-A100E3-2373	1	*
	68	00D9410018803	LENS		100-5500-2098	2	
⚠	69	941641003530D	2P AC JACK		420-4001-221	1	*
	71	nsp	SCREW		602-500-477	3	
⚠	74	00D2062215006	VFS AC CORD (E2)	E2	409-A100-209	1	
⚠	74	00D2062220004	VFS AC CORD (E3)	E3	409-A100-208	1	
	75	00D9410029805	FOOT ASS'Y		701-1300-2927	4	
	77	00D9410029711	WASHER		606-1300-117	9	
	87	941409003430D	705A100E21448 HEADSHELLASSYDPA100 ACD-50		705-A100E2-1448	1	*
	88	nsp	DECORATION FOR HINGE		501-1300-1708A	2	
	91	nsp	NUT		601-A100-004	1	
	92	nsp	1P LEAD WIRE		406-1300-698	1	
	93	nsp	GROUNDING METAL NET		407-DJ1900-094	1	
	94	00MYT02011280	VFS RCA PIN JACK (RED)		420-A100-346	1	
	95	00MYT02011290	VFS RCA PIN JACK (WHITE)		420-A100-347	1	
	96	nsp	VFS CARTRIDGE(DL-A100)		402-A100-100	1	
	97	941421003660D	DENON BADGE		501-A100-2363	1	*
⚠	98	nsp	1P WIRE (L50,RED)		406-A100-1152	1	*
⚠	99	nsp	1P WIRE (L50,YEW)		406-A100-1153	1	*
	★ 100	nsp	CAUTION LABEL		501-A100E2-2380	1	*
	★ 101	nsp	FCC LABEL	E3	501-A100E3-2382	1	*
	102	nsp	BOTTOM CAUTION LABEL	E3	501-A100E3-2381	1	*

OPTION COUNTER WEIGHT ⚠⚠⚠

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	(34)	941409004140D	200A100630 WEIGHT HEAVY DPA100 ACD-49		200-A100-630	1	*
	(34)	941409004150D	200A100629 WEIGHT LIGHT DPA100 ACD-48		200-A100-629	1	*

PACKING VIEW 2



PARTS LIST OF PACKING VIEW

* Parts for which "nsp" is indicated on this table cannot be supplied.

* Part indicated with the mark " ★ " is not illustrated in the exploded view.

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

E3 : U.S.A. & Canada model

E2 : Europe model

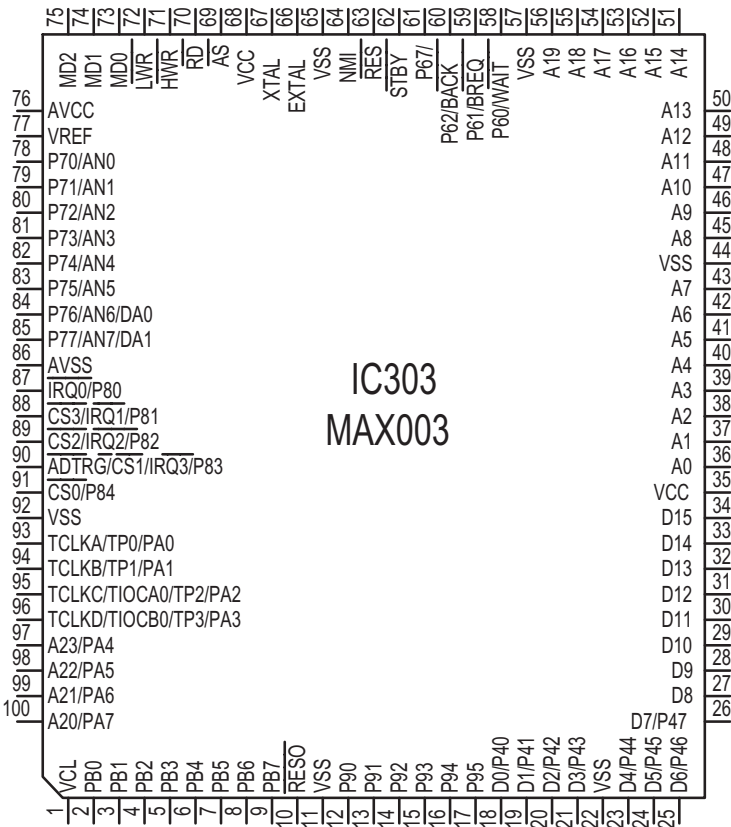
	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	1-1	nsp	BAG		505-A100-233	1	*
	1-2	nsp	BAG		612-1300M2-261	1	
	1-3	nsp	SOFT SHEET(60*140*t0.5)		509-1300M2-198	1	
	1-4	nsp	CUSHION FOR TONEARM(20*20*t28)		612-ST150-159	1	
	2-1	nsp	DUST COVER ASSY		701-1300-2924	1	
	2-2	nsp	SOFT SHEET		509-1300-142	1	
	3	nsp	POLYFOAM		506-A100-604	1	*
	4	nsp	VFS CARTRIDGE(DL-A100)		402-A100-100	1	*
	5	nsp	CARTRIDGE COVER		501-A100-2386	1	*
	6	nsp	POLYFOAM (B)		506-A100-591B	1	*
	7	nsp	POLYFOAM (F)		506-A100-591F	1	*
	8-1	00D9410026206	ALUMINUM PLATTER ASSY		702-1300-041	1	
	8-2	nsp	POLYBAG FOR ALUMINUM PLATTER		505-DJ2500H-001	1	
	8-3	nsp	SOFT SHEET(600*600mm)		509-500-140	1	
	9-1	00D9410019006	2P RCA CORD(L=1600±40mm)		408-DJ100-035A	1	
	9-2	nsp	POLYBAG (HDPE, 120*320mm)		505-DD3220-103	1	
	10-1	00D2062215006	VFS AC CORD(L=2000mm,VDE TYPE)	E2	409-A100-209	1	
	10-1	00D2062220004	VFS AC CORD(L=2000mm,UL TYPE)	E3	409-A100-208	1	
	10-2	nsp	POLYBAG (HDPE, 120*320mm)		505-DD3220-103	1	
	11-1	00D9410029504	45 RPM ADAPTOR(AL)		200-1300-350	1	
	11-2	nsp	POLYBAG(70*95mm)		505-B300-007	1	
	12-1	941409003420D	COUNTER WEIGHT ADJUSTOR ASSY		702-A100-069	1	*
	12-2	nsp	POLYBAG(70*95mm)		505-B300-007	1	
	13	941409003430D	705A100E21448 HEADSHELLASSYDPA100 ACD-50		705-A100E2-1448	1	*
	13-1	nsp	HEADSHELL		703-A100-1292	1	*
	13-2	nsp	POLYBAG(70*95mm)		505-B300-007	2	
	13-3	nsp	SPACER		100-1300-2120	2	
	13-4	nsp	SCREW		602-1300-484	2	
	13-5	nsp	NUT		601-M26P045-031	2	
	13-6	nsp	WASHER FOR STYLUS		606-STYLUS-229A	2	
	13-7	nsp	CARTRIDGE SPACER PAPER(50*16mm)		502-A100E2-3029	1	*
	14	00D9580024109	APPENDAGE LABEL		501-BJ2300E-1190	2	
	15	nsp	PASTEBOARD		507-A100-3198	1	*
	16-1	nsp	VFS THANK YOU NOTE(210*105mm,0.2t)		502-A100E2-2988	1	
	16-2	nsp	WARRANTY	E3	502-A100E3-2991	1	
	16-3	541110575001D	INST. MANUAL (E2)	E2	502-A100E2-2987	1	*
	16-3	541110576004D	INST. MANUAL (E3)	E3	502-A100E3-2989	1	*
	16-4	nsp	S.S.LIST(EX)		502-DCM280-1347K	1	*
	16-5	nsp	ZIP BAG		505-A100-231	1	
	16-6	nsp	CLOTH(200*200*t0.5mm)		612-A100-386	1	*
	16-7	nsp	VFS PURE COTTON GLOVE		612-A100-387	1	*
	17-1	nsp	BRAND BOOK		502-A100M-3001	1	
	17-2	nsp	VFS INSPECTION SHEET		502-A100-3027	1	
	17-3	nsp	ZIP BAG		505-A100-232	1	*
	18	nsp	PASTEBOARD		507-A100-3200	1	*
	19	00D9410015204	SLIPMAT PACKING ASS'Y		705-500-867	1	
	20	nsp	PARTITION BOARD(INSIDE)		507-A100-3199	2	*
	21	941531003550D	GIFTBOX		507-A100E2-3197	1	*
	22	nsp	CAATCM LABEL	E3	701-A100E3-3451	1	*
	23	nsp	BAR CODE	E2	701-A100E2-4916	1	*
	23	nsp	BAR CODE	E3	701-A100E3-4916	1	*

SEMICONDUCTORS

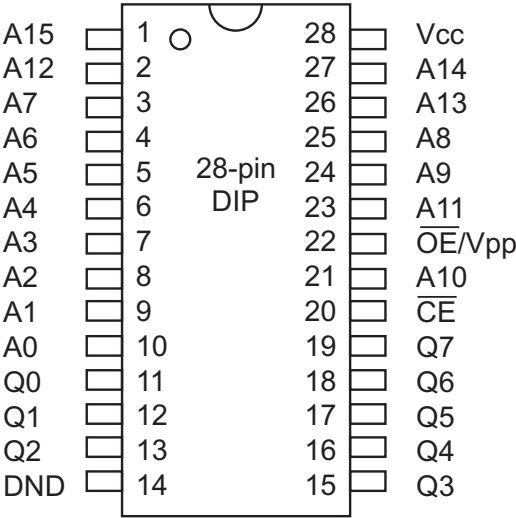
Only major semiconductors are shown, general semiconductors etc. are omitted to list.
The semiconductor which described a detailed drawing in a schematic diagram are omitted to list.

1. IC's

MAX003 (IC303)



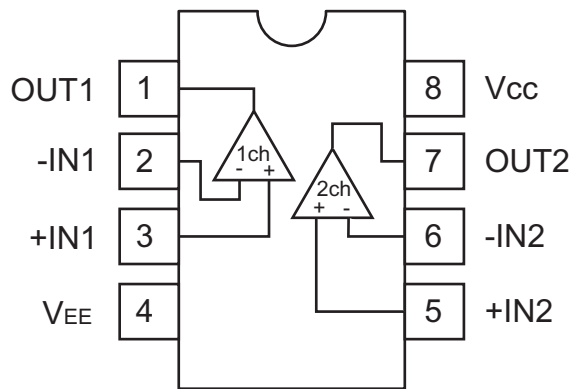
W27E512-12/W27C512-45 (IC304)



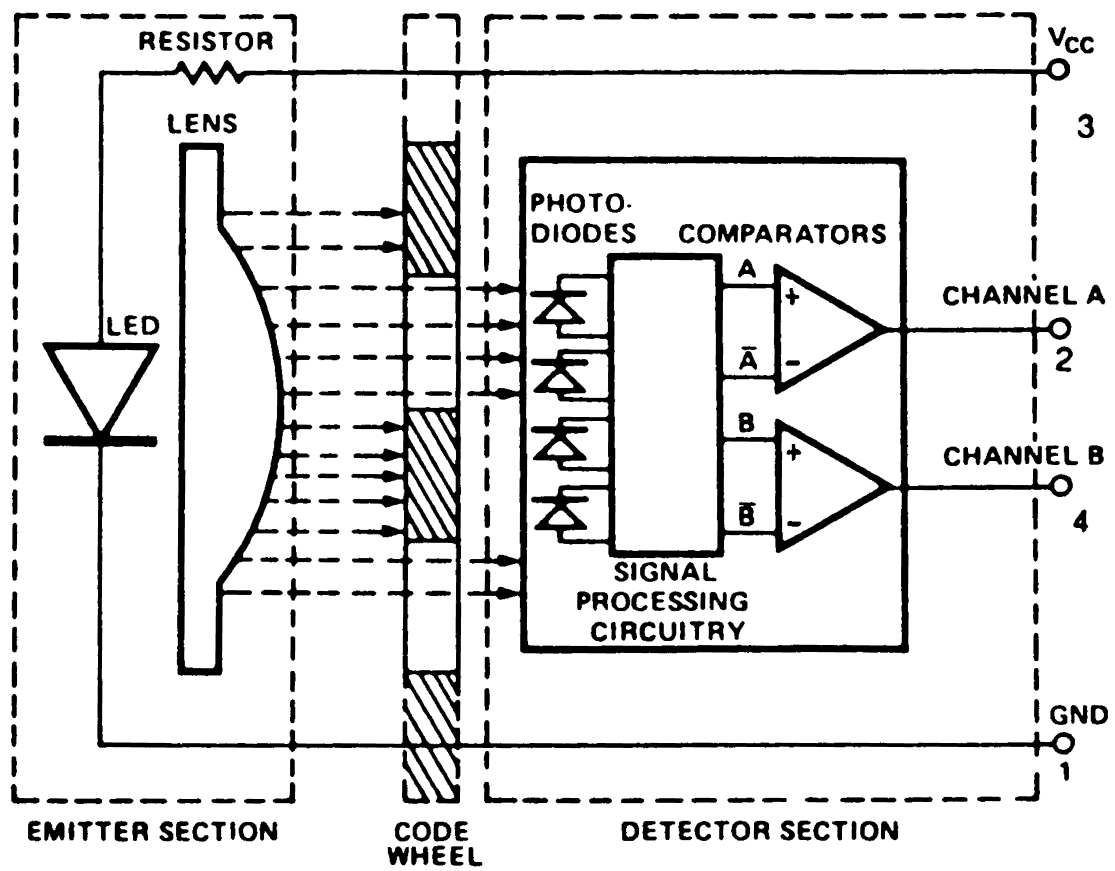
PIN DESCRIPTION

SYMBOL	DESCRIPTION
A0-A15	Address Inputs
Q0-Q7	Data Inputs/Outputs
CE	Chip Enable
OE/Vpp	Output Enable, Program/Erase Supply Voltage
Vcc	Power Supply
GND	Ground
NC	No Connection

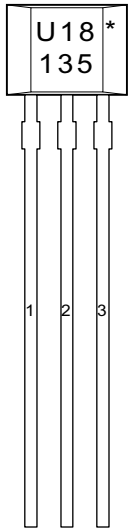
NJM-2147D (IC101,102)



HEDS9700F51 (IC103)

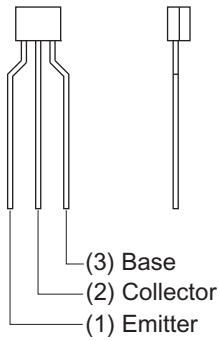


US1881 (H11-H13)

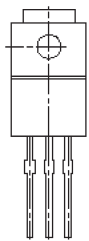


PINOUT:
Pin 1 VDD
Pin 2 GND
Pin 3 Output

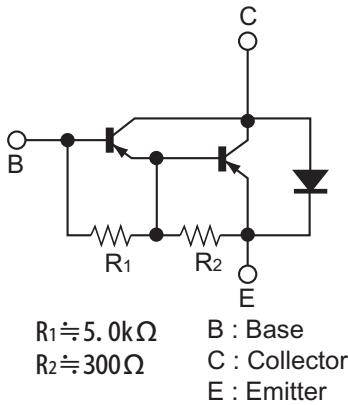
DTC124TS



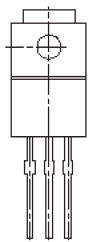
2SB1340



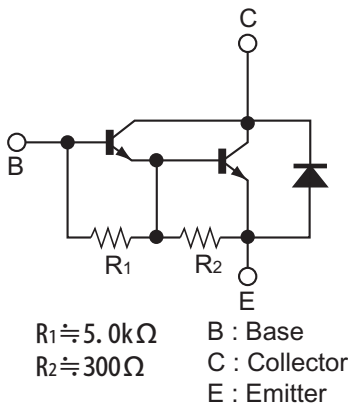
(1) Base
(2) Collector
(3) Emitter



2SD1889



(1) Base
(2) Collector
(3) Emitter



PARTS LIST OF P.W.B. UNIT

* Parts for which "nsp" is indicated on this table cannot be supplied.

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

E3 : U.S.A. & Canada model

E2 : Europe model

MAIN P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC301	00D9410021900	IC(BD4745G/BD4745G/TR)		417-HDJ2000-503		
	IC302	00D9410021803	IC(BA10393F/BA10393FE2,SOP-8)		417-DV330-197		
	IC303	00D9410021706	IC(MAX003,FP-100B)		417-DJ5500-578		
	IC304	00D9410025003	IC SOCKET(28PIN P=2.54mm)		404-HV3500K-613		
	IC304	00D9410022006	IC ASS'Y (W27E512-12/W27C512-45,DIP-28,OTP)		704-1300-4440		
	Q301	00D9580040507	TRANSISTOR(2SC1740R TAPING)		416-3113-007		
	Q302	00D9580040507	TRANSISTOR(2SC1740R TAPING)		416-3113-007		
	D301	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D302	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D303	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D304	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D305	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D306	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
RESISTORS GROUP							
	R301	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		
	R302	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R303	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R304	nsp	CARBON FILM RESISTOR(3.3K OHM J 1/6W)		412-3113-057		
	R305	nsp	CARBON FILM RESISTOR(1M OHM J 1/6W)		412-3113-079		
	R306	nsp	CARBON FILM RESISTOR(1K OHM J 1/6W)		412-3113-078		
	R307	nsp	CARBON FILM RESISTOR(100 OHM J 1/6W)		412-3113-060		
	R308	nsp	CARBON FILM RESISTOR(47K OHM J 1/6W)		412-3113-063		
	R309	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		
	R310	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R311	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R312	nsp	CARBON FILM RESISTOR(3.3K OHM J 1/6W)		412-3113-057		
	R313	nsp	CARBON FILM RESISTOR(1M OHM J 1/6W)		412-3113-079		
	R314	nsp	CARBON FILM RESISTOR(1K OHM J 1/6W)		412-3113-078		
	R315	nsp	CARBON FILM RESISTOR(100 OHM J 1/6W)		412-3113-060		
	R316	nsp	CARBON FILM RESISTOR(47K OHM J 1/6W)		412-3113-063		
	R317	nsp	CARBON FILM RESISTOR(4.7K OHM J 1/6W)		412-3113-055		
	R318	nsp	CARBON FILM RESISTOR(4.7K OHM J 1/6W)		412-3113-055		
	R319	nsp	CARBON FILM RESISTOR(4.7K OHM J 1/6W)		412-3113-055		
	R320	nsp	CARBON FILM RESISTOR(4.7K OHM J 1/6W)		412-3113-055		
	R321	nsp	CARBON FILM RESISTOR(100 OHM J 1/6W)		412-3113-060		
	R322	nsp	CARBON FILM RESISTOR(1M OHM J 1/6W)		412-3113-079		
	R323	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		
	R324	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		
	R325	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		
	R326	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		
	R327	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		

Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
R328	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		
R329	nsp	CARBON FILM RESISTOR(470 OHM J 1/6W)		412-3113-056		
R330	nsp	CARBON FILM RESISTOR(470 OHM J 1/6W)		412-3113-056		
R331	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		
R332	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		
R333	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		
CAPACITORS GROUP						
C301	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)		413-1430-071		
C302	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C303	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C304	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)		413-1430-071		
C305	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C306	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C307	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C308	nsp	ELEC. CAPACITOR(100uF/10V,M)		413-3113-046		
C309	nsp	ELEC. CAPACITOR(1uF/50V,M)		413-3113-049		
C310	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C311	nsp	ELEC. CAPACITOR(100uF/10V,M)		413-3113-046		
C312	nsp	CERAMIC CAPACITOR(18pF/50V,J,NPO)		413-HT7016-213		
C313	nsp	CERAMIC CAPACITOR(15pF/50V,J,NPO)		413-KM280-173		
C314	nsp	ELEC. CAPACITOR(100uF/10V,M)		413-3113-046		
C315	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C316	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C317	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C318	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
C319	nsp	ELEC. CAPACITOR(100uF/10V,M)		413-3113-046		
C320	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,Y5V)		413-3113-035		
OTHER PARTS GROUP						
X301	00D9580074803	CITIZEN BRAND(CSA-309,16MHz)		427-CDN88-072		
CN301	nsp	4P SOCKET(B4B-PH-K-S,JST,180°)		404-KM300-123		
CN302	nsp	11P SOCKET		404-HDJ9700-1556		
CN303	nsp	2P SOCKET(JST WHITE B2B-PH-K-S P=2mm)		404-HP1010K-257		
L301	00D9580016900	BEAD CORE(86-019-A TAPING)		415-HV3500K-090		
L302	00D9580016900	BEAD CORE(86-019-A TAPING)		415-HV3500K-090		
L303	00D9580016900	BEAD CORE(86-019-A TAPING)		415-HV3500K-090		
L304	00D9580016900	BEAD CORE(86-019-A TAPING)		415-HV3500K-090		

DC&33/45&START/STOP PCB UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC901	00D9580040303	IC 7805		417-KC730-123		
	IC902	00D9410022103	IC(7812)		417-BJ1900L-231		
	D201	00D9410023102	LED(LTL1CHKFKNN)		410-1300-243		
	D202	00D9410023209	LED(LTL1RMTGK)		410-1300-244		
OTHER PARTS GROUP							
	CN201	nsp	4P2.0 CONNECTOR WIRE(L=140mm)		404-1300-1678		
	CN202	nsp	2P CONNECTOR WIRE(L=150mm)		404-HDJ7100-760		
	CN903A	nsp	4P SOCKET(S4B-XH-A,P=2.5mm,90°)		404-QMX2-606		
	SW201	00D9580018306	TACT SW(SKHVBE3520-HF,TAPING)		403-DCM270X-101		
	SW202	00D9410015806	PUSH SW*SPUN12A010-HF)		403-1300-181		
		nsp	HEAT SINK		425-DJ3000-023		
		nsp	LED HOLDER (for D201,202)		504-QD5-127		
		nsp	SCREW(M3*8,P=0.5,BLACK)		602-2002-085		
		nsp	SCREW(BTP,DIA3*6)		602-DJ3000-274		

OUTPUT&POWER PCB UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
CAPACITORS GROUP							
⚠	C01	00D9580010003	MEX CAPACITOR(0.1uF/250V,K,BULK)		413-PROTT1-432		
⚠	C02	00D9410019103	SPARK CAPACITOR(4700pF/250V,M,BULK,Y5V)		413-1431-104		
OTHER PARTS GROUP							
⚠	F1	00D9580045308	WAVE FILTER		415-1300-239		
⚠	F01	00D9580045405	FUSE(1A/250V,T-MARK/UL/CSA)	E3	422-CDN12F-028		
⚠	F01	90M-FS001400R	FUSE(5ST500,500mA/250V 50F VDE)	E2	422-KT350A-003		⚠
	JK01	00D9410022307	2P RCA JACK(RJ-1078-10-0500A)		420-RCC955A-089		
	CN1	00D9410017901	2P SOCKET(P=3.96mm,90 DEGREES)		404-BEAT6-1598		
		nsp	FUSE CLIPS(FC-1206/WL-210A,15A)(for F01)		420-KT350A-004		
		nsp	FUSE COVER(for F01)		504-DJ2500J-046		

D.D MOTOR PCB UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
	IC101	00D9410021104	IC(NJM-2147D,DIP-8)		417-DJ5500-579		
	IC102	00D9410021104	IC(NJM-2147D,DIP-8)		417-DJ5500-579		
	IC104	00D9410021609	IC(NJM-4580M-TE2,SOP-8)		417-ST150-599		
	IC105	00D9410021609	IC(NJM-4580M-TE2,SOP-8)		417-ST150-599		
	IC106	00D9410021502	IC(TC4066BFN/BU4066BCF/BU4066BCF-E2)		417-QMX2-190		
	IC903	00D9410021007	IC(NJM7824)		417-DJ2500-268		
	IC904	00D9410021201	IC(NJM-7924FA,3PIN)		417-DJ5500-581		
	IC905	00D9410021308	IC(NJM7815FA 3PIN)		417-DV330-216		
	IC906	00D9410021405	IC(NJM7915FA)		417-RCC955A-291		
	Q101	00D9580040400	DTC124TS TAPING OR 2SC4120		416-1330-020		
	Q102	00D9580040808	TRANSISTOR (DTA124TS/2SA1589/DTA124TSATP)		416-KE200S-024		
	Q107	00D9410023607	TRANSISTOR(2SD1889,TO-220FP)		416-DJ5500-206		
	Q108	00D9410023500	TRANSISTOR(2SB1340,TO-220FP)		416-DJ5500-205		
	D101	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D102	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D103	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D104	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D105	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D106	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D107	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D108	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D109	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D110	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D111	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D112	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D113	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D114	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D115	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D116	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D117	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D118	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D119	00D9580042806	SWITCHING DIODE(1SS132/1SS133,300mw,55V)		414-3113-005		
	D120	00D9580075103	ZENER DIODE(MTZJ5.1-B,1/2W)		414-HDJ200-056		
	D121	00D9580075103	ZENER DIODE(MTZJ5.1-B,1/2W)		414-HDJ200-056		
	D901	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
	D902	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
	D903	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
	D904	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
	D905	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
	D906	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
	D907	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
	D908	00D9580018607	DIODE(1N4002,1A/100V,TAPING)		414-DV300-5014		
RESISTORS GROUP							
	R101	nsp	CARBON FILM RESISTOR(6.8K OHM J 1/6W)		412-3113-069		
	R102	nsp	CARBON FILM RESISTOR(680 OHM J 1/6W)		412-3113-070		
	R103	nsp	CARBON FILM RESISTOR(560K OHM J 1/6W)		412-3113-072		
	R104	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	R105	nsp	CARBON FILM RESISTOR(270 OHM J 1/6W)		412-3113-049		
	R106	nsp	CARBON FILM RESISTOR(270 OHM J 1/6W)		412-3113-049		
	R107	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R108	nsp	CARBON FILM RESISTOR(6.8K OHM J 1/6W)		412-3113-069		
	R109	nsp	CARBON FILM RESISTOR(680 OHM J 1/6W)		412-3113-070		
	R110	nsp	CARBON FILM RESISTOR(560K OHM J 1/6W)		412-3113-072		
	R111	nsp	CARBON FILM RESISTOR(270 OHM J 1/6W)		412-3113-049		
	R112	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R113	nsp	CARBON FILM RESISTOR(270 OHM J 1/6W)		412-3113-049		
	R114	nsp	CHIP RESISTOR(22K OHM,J,TP 0805,150V)		412-DV330-314		
	R115	nsp	CARBON FILM RESISTOR(6.8K OHM J 1/6W)		412-3113-069		
	R116	nsp	CARBON FILM RESISTOR(680 OHM J 1/6W)		412-3113-070		
	R117	nsp	CARBON FILM RESISTOR(560K OHM J 1/6W)		412-3113-072		
	R118	nsp	CARBON FILM RESISTOR(270 OHM J 1/6W)		412-3113-049		
	R119	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R120	nsp	CARBON FILM RESISTOR(270 OHM J 1/6W)		412-3113-049		
	R121	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R122	00D9410024101	METAL FILM RESISTOR(1 OHM,1W,J,T-73)		412-DJ5500-661		
	R123	00D9410024101	METAL FILM RESISTOR(1 OHM,1W,J,T-73)		412-DJ5500-661		
	R124	00D9410024101	METAL FILM RESISTOR(1 OHM,1W,J,T-73)		412-DJ5500-661		
	R125	nsp	CHIP RESISTOR(10K OHM,1/8W,J,TP 0805,150V)		412-DV330-306		
	R126	nsp	CHIP RESISTOR(680K OHM,1/8W,J,TP 0805,150V)		412-CDN88-024		
	R127	nsp	CHIP RESISTOR(18K OHM,J,TP 0805,150V)		412-AMC110D-5057		
	R128	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		
	R129	nsp	CHIP RESISTOR(680K OHM,1/8W,J,TP 0805,150V)		412-CDN88-024		
	R130	nsp	CARBON FILM RESISTOR(18K OHM J 1/6W)		412-3113-061		
	R131	00D9410055507	METAL FILM RESISTOR(22K OHM J 1/6W,F,T-26)		412-5500-884		
	R132	nsp	CHIP RESISTOR(22K OHM,J,TP 0805,150V)		412-DV330-314		
	R133	nsp	CHIP RESISTOR(12K OHM,1/8W,J,TP 0805,150V)		412-DV330-330		
	R134	nsp	RESISTOR(4.7KB,RH0615CS3J)		412-KC220-127		
	R135	nsp	CHIP RESISTOR(2.7K OHM,1/8W,J,TP 0805,150V)		412-QSPAND-496		
	R136	nsp	CHIP RESISTOR(18K OHM,J,TP 0805,150V)		412-AMC110D-5057		
	R137	nsp	CARBON FILM RESISTOR(18K OHM J 1/6W)		412-3113-061		
	R138	nsp	CHIP RESISTOR(18K OHM,J,TP 0805,150V)		412-AMC110D-5057		
	R139	nsp	CHIP RESISTOR(22K OHM,J,TP 0805,150V)		412-DV330-314		
	R140	nsp	CARBON FILM RESISTOR(22K OHM J 1/6W)		412-3113-059		
	R141	nsp	CHIP RESISTOR(47K OHM,1/8W,J,TP 0805,150V)		412-DV330-321		
	R142	nsp	CHIP RESISTOR(22K OHM,J,TP 0805,150V)		412-DV330-314		
	R143	nsp	CHIP RESISTOR(22K OHM,J,TP 0805,150V)		412-DV330-314		
	R144	nsp	CHIP RESISTOR(1K OHM,1/8W,J,TP 0805,150V)		412-DV330-305		
	R145	nsp	CARBON FILM RESISTOR(1K OHM J 1/6W)		412-3113-078		
	R146	00D9410024101	METAL FILM RESISTOR(1 OHM,1W,J,T-73)		412-DJ5500-661		
	R147	00D9410024101	METAL FILM RESISTOR(1 OHM,1W,J,T-73)		412-DJ5500-661		
	R148	00D9410024101	METAL FILM RESISTOR(1 OHM,1W,J,T-73)		412-DJ5500-661		
	R149	nsp	CARBON FILM RESISTOR(10K OHM J 1/6W)		412-3113-068		
	R150	nsp	CHIP RESISTOR(1K OHM,1/8W,J,TP 0805,150V)		412-DV330-305		
	R151	nsp	CHIP RESISTOR(1K OHM,1/8W,J,TP 0805,150V)		412-DV330-305		
	R152	nsp	CHIP RESISTOR(1K OHM,1/8W,J,TP 0805,150V)		412-DV330-305		
	R153	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		
	R154	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		
	R155	nsp	CARBON FILM RESISTOR(220 OHM J 1/6W)		412-3113-058		

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
CAPACITORS GROUP					
C101	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)	413-1430-071		
C102	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)	413-1430-071		
C103	nsp	CHIP CAPACITOR(1000pF/50V,J,0805 TYPE,NPO)	413-DV330-311		
C104	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)	413-1430-071		
C105	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)	413-1430-071		
C106	nsp	CHIP CAPACITOR(1000pF/50V,0805 TYPE,NPO)	413-DV330-311		
C107	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)	413-1430-071		
C108	nsp	CERAMIC CAPACITOR(1000pF/50V,K,Y5P)	413-1430-071		
C109	nsp	CERAMIC CAPACITOR(1000pF/50V,K,,Y5P)	413-1430-071		
C110	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C111	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C112	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C113	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C114	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C115	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C116	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C117	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C118	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C119	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C120	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,TAPING,Y5V)	413-3113-035		
C121	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,TAPING,Y5V)	413-3113-035		
C122	nsp	ELEC. CAPACITOR(100uF/10V,M,TAPING 5*11)	413-3113-046		
C905	nsp	ELEC. CAPACITOR(100uF/10V,M,TAPING 5*11)	413-3113-046		
C123	nsp	ELEC. CAPACITOR(100uF/10V,M,TAPING 5*11)	413-3113-046		
C124	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C125	nsp	ELEC. CAPACITOR(100uF/25V,M,TAPING 6.3*11)	413-HS100-180		
C126	nsp	ELEC. CAPACITOR(100uF/25V,M,TAPING 6.3*11)	413-HS100-180		
C127	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C128	nsp	ELEC. CAPACITOR(100uF/25V,M,TAPING 6.3*11)	413-HS100-180		
C129	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C130	nsp	ELEC. CAPACITOR(100uF/25V,M,TAPING 6.3*11)	413-HS100-180		
C131	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C132	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C133	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C134	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C135	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C136	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C137	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C138	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)	413-DV330-313		
C139	nsp	CHIP CAPACITOR(1000pF/50V,J,0805 TYPE,NPO)	413-DV330-311		
C140	nsp	CHIP CAPACITOR(1000pF/50V,J,0805 TYPE,NPO)	413-DV330-311		
C141	nsp	CHIP CAPACITOR(1000pF/50V,J,0805 TYPE,NPO)	413-DV330-311		
C901	nsp	ELEC. CAPACITOR(100uF/35V,M,105 13*21)	413-DJ1900-110		
C904	nsp	ELEC. CAPACITOR(100uF/16V,M,TAPING 5*11)	413-PXE90-109		
C906	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,TAPING,Y5V)	413-3113-035		
C907	00D9410055604	METAL POLYSTER CAPACITOR(0.1uF/AC125V,K)	413-DJ3500-884		
C908	00D9410055604	METAL POLYSTER CAPACITOR(0.1uF/AC125V,K)	413-DJ3500-884		
C909	00D9410024402	ELEC. CAPACITOR(2200uF/35V,M,BULK 16*25)	413-HT7016-223		
C910	00D9410024402	ELEC. CAPACITOR(2200uF/35V,M,BULK 16*25)	413-HT7016-223		
C911	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)	413-HMD5000-356		
C912	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,TAPING,Y5V)	413-3113-035		

	Ref. No.	Part No.	Part Name	Remarks		Q'ty	New
	C913	nsp	ELEC. CAPACITOR(100uF/35V,M,TAPING 8*11)		413-HMD5000-356		
	C914	nsp	CERAMIC CAPACITOR(0.1uF/50V,Z,TAPING,Y5V)		413-3113-035		
	C915	nsp	ELEC. CAPACITOR(100uf/25V,M,TAPING 6.3*11)		413-HS100-180		
	C916	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)		413-DV330-313		
	C917	nsp	ELEC. CAPACITOR(100uf/25V,M,TAPING 6.3*11)		413-HS100-180		
	C918	00D9410055604	METAL POLYSTER CAPACITOR(0.1uF/AC125V,K)		413-DJ3500-884		
	C918	nsp	CHIP CAPACITOR(0.1uF/50V,Z,0805 TYPE,Y5V)		413-DV330-313		
OTHER PARTS GROUP							
	CN102	nsp	4P2.0 CONNECTOR WIRE(L=100mm)		404-ST150-1574		
	CN103	nsp	11P2.0 CONNECTOR WIRE(L=150mm)		404-1300-1679		
	CN104	nsp	3 PIN		424-KT350-005		
	CN901	nsp	5P SOCKET(B5B-XH-A,P=2.5mm)		404-HV3500K-622		
	CN903	nsp	4P CONNECTOR WIRE(L=300mm,P=2.5mm)		404-CDMIX1-949		
	JR1	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 1206,150V)		412-DJ3000-414		
	JR2	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 1206,150V)		412-DJ3000-414		
	JR3	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 1206,150V)		412-DJ3000-414		
	JR4	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 1206,150V)		412-DJ3000-414		
	JR5	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 1206,150V)		412-DJ3000-414		
	JR6	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 1206,150V)		412-DJ3000-414		
	JR7	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 1206,150V)		412-DJ3000-414		
	JR8	nsp	CHIP RESISTOR(0 OHM,1/8W,J,TP 0805,150V)		412-HV3500K-367		
	L901	00D9580016900	BEAD CORE(86-019-A TAPING)		415-HV3500K-090		
⚠	F02	941652004270S	FUSE(1.25A/125V)		422-A100-109		
⚠	F03	941652004270S	FUSE(1.25A/125V)		422-A100-109		
⚠	F04	941652004290S	CHIP FUSE(1.5A/63V,1206)		422-80-065		