

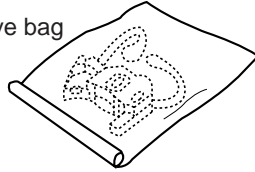
# SERVICING PRECAUTIONS

## NOTES REGARDING HANDLING OF THE PICK-UP

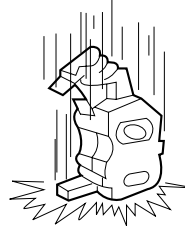
### 1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.

Storage in conductive bag

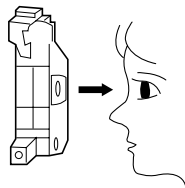


Drop impact



### 2. Repair notes

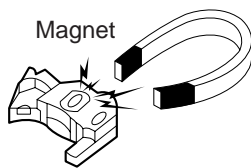
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes!  
Absolutely never permit laser beams to enter the eyes!  
Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



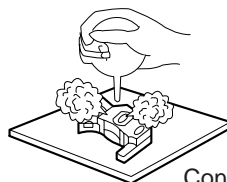
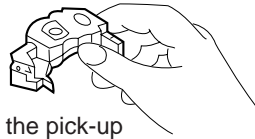
NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

#### 5) Cleaning the lens surface

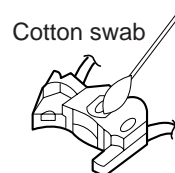
If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



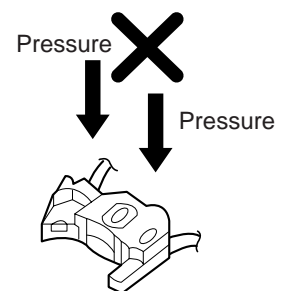
How to hold the pick-up



Conductive Sheet



Cotton swab



#### 6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

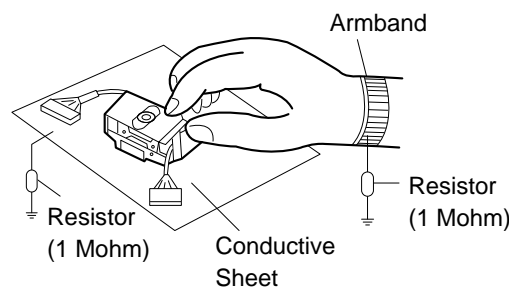
# NOTES REGARDING COMPACT DISC PLAYER REPAIRS

## 1. Preparations

- 1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
- 2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

## 2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.  
When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband (1M $\Omega$ )
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



# ESD PRECAUTIONS

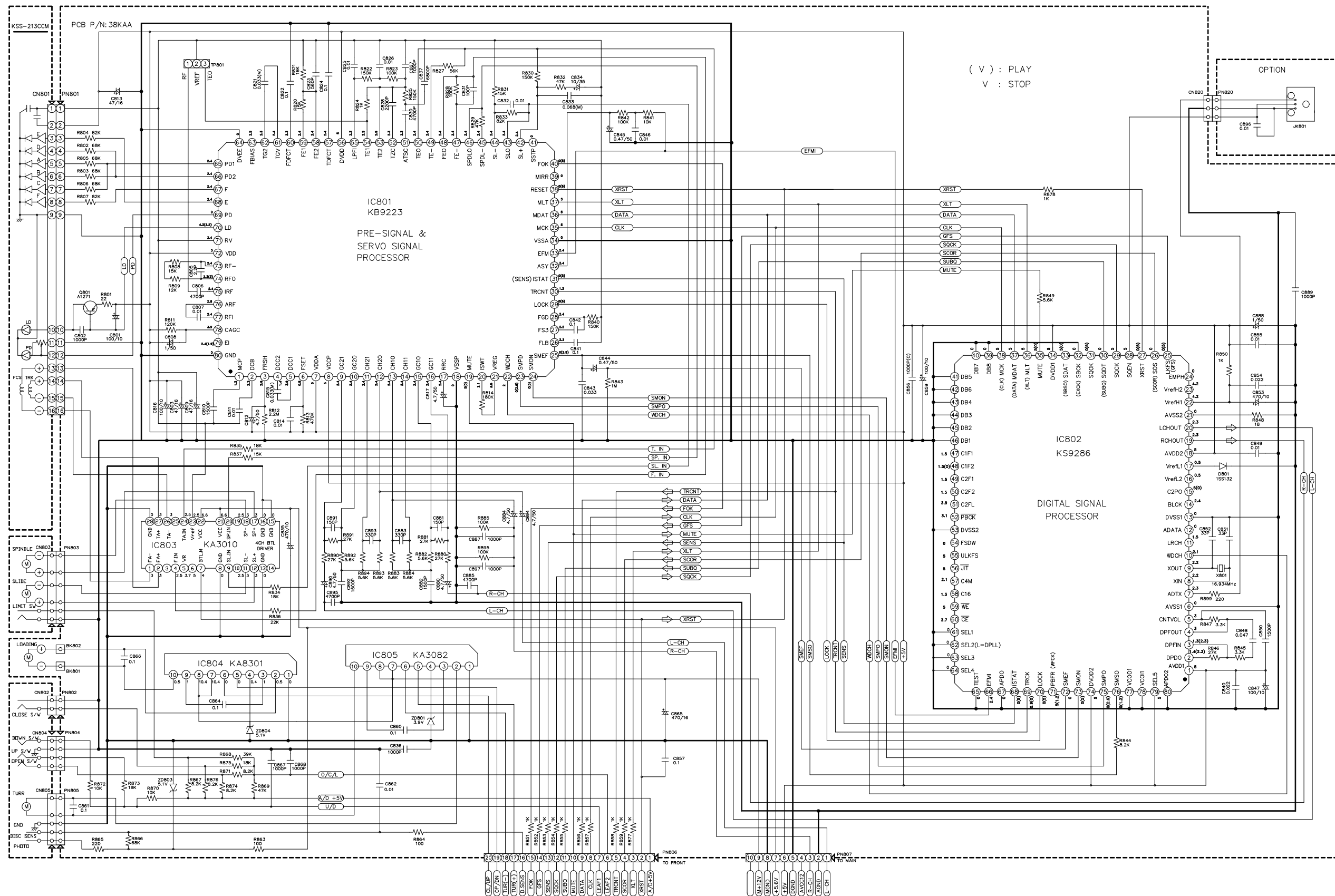
## Electrostatically Sensitive Devices (ESD)

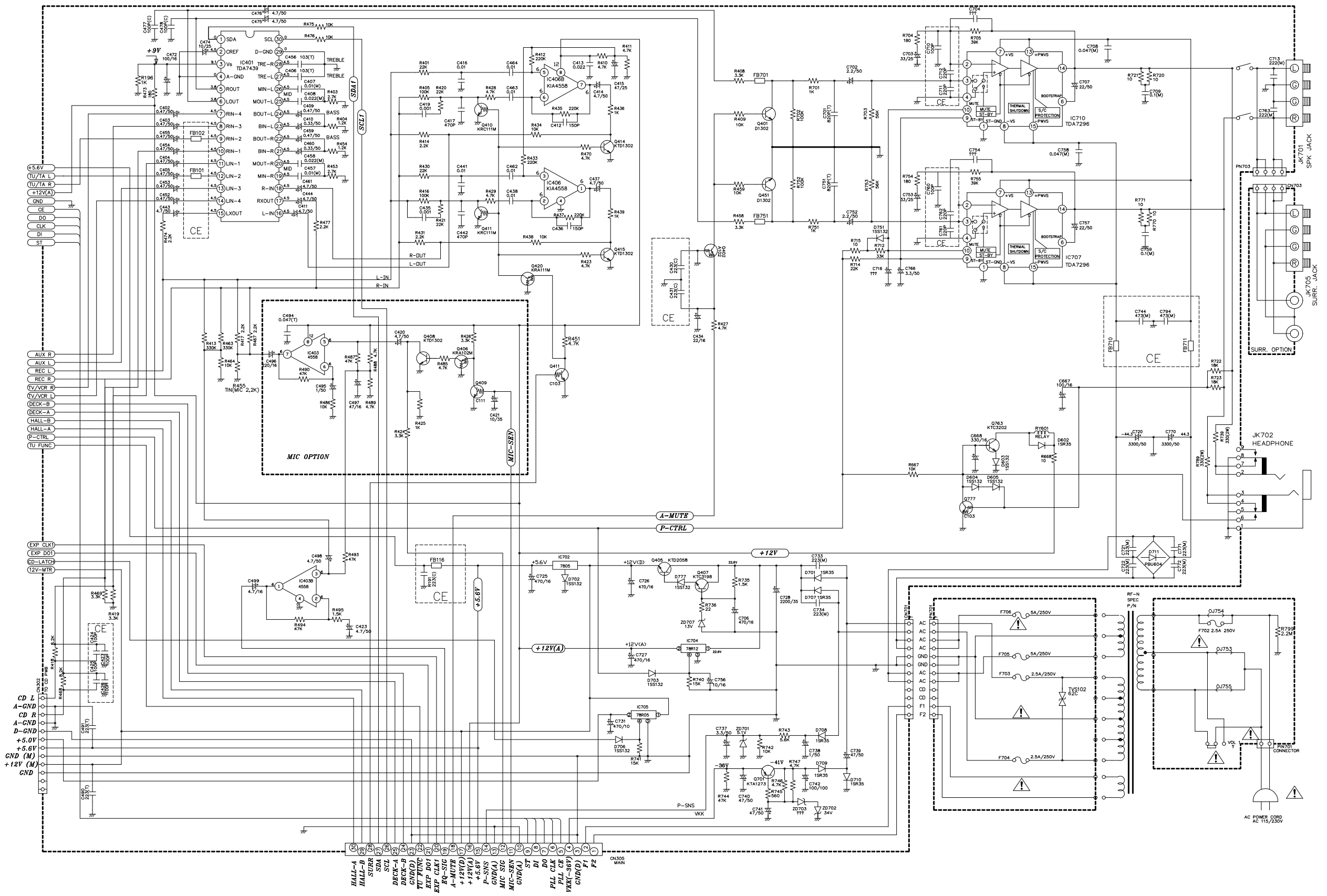
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

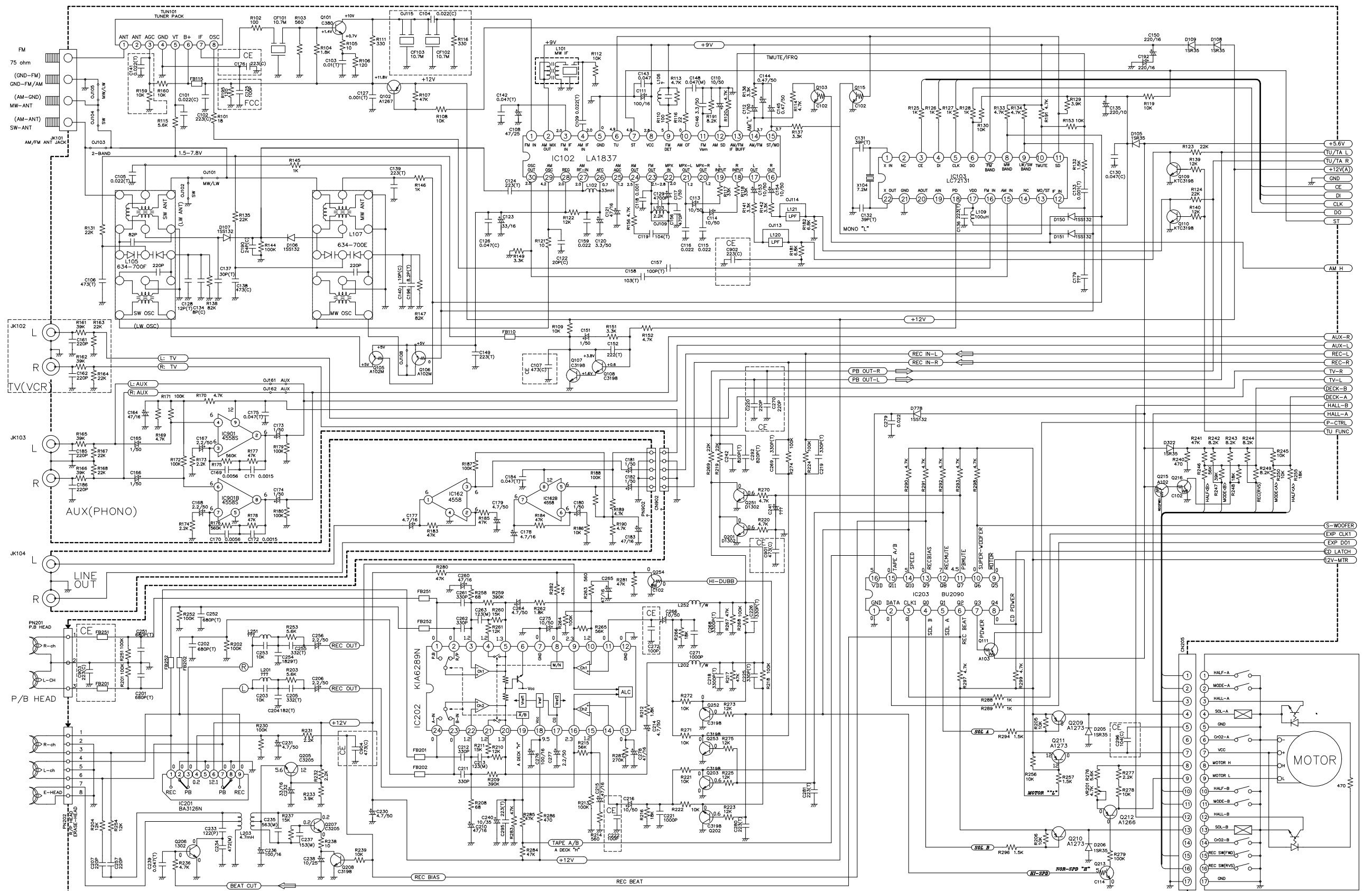
1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.**

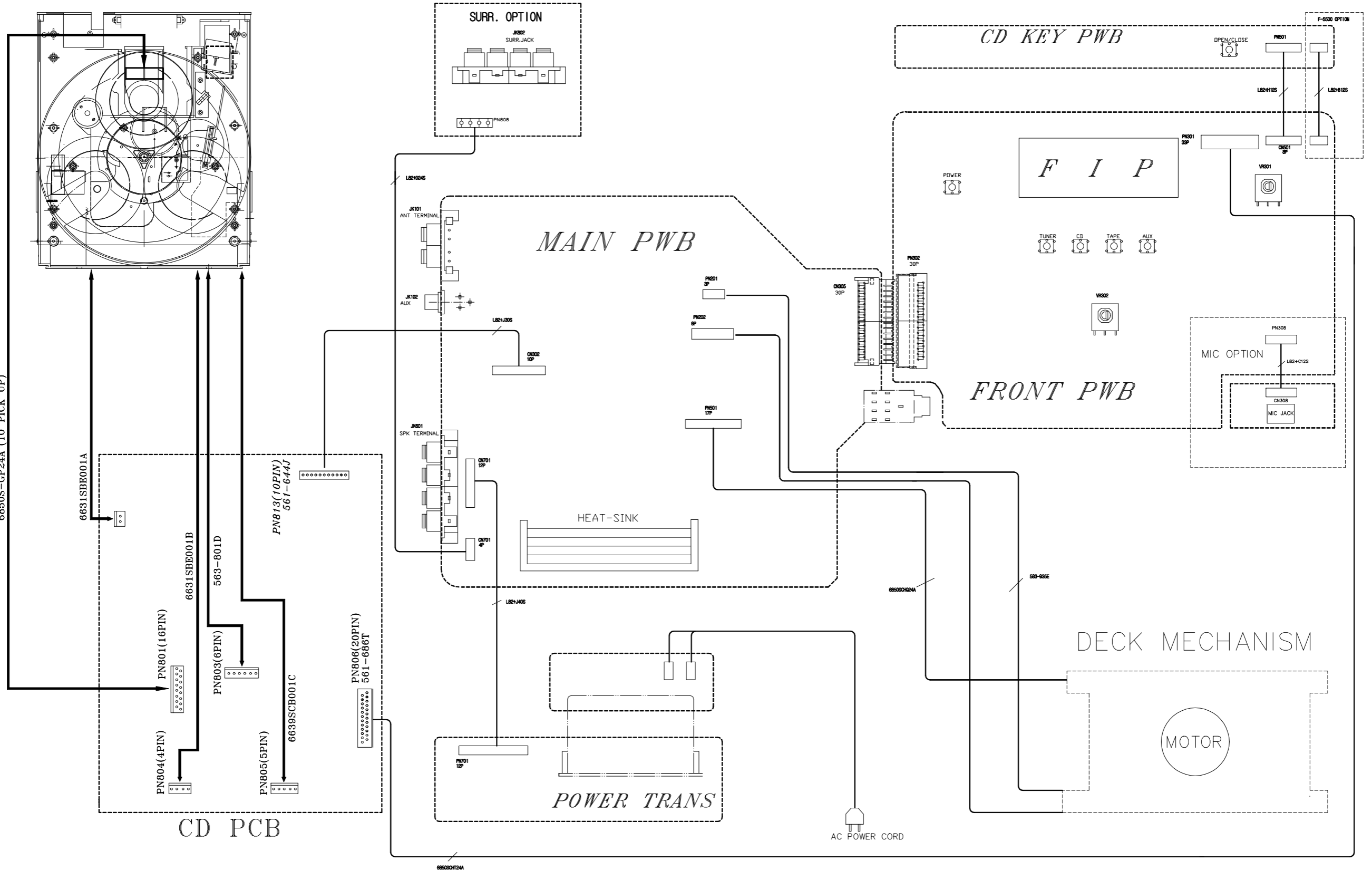
8. Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

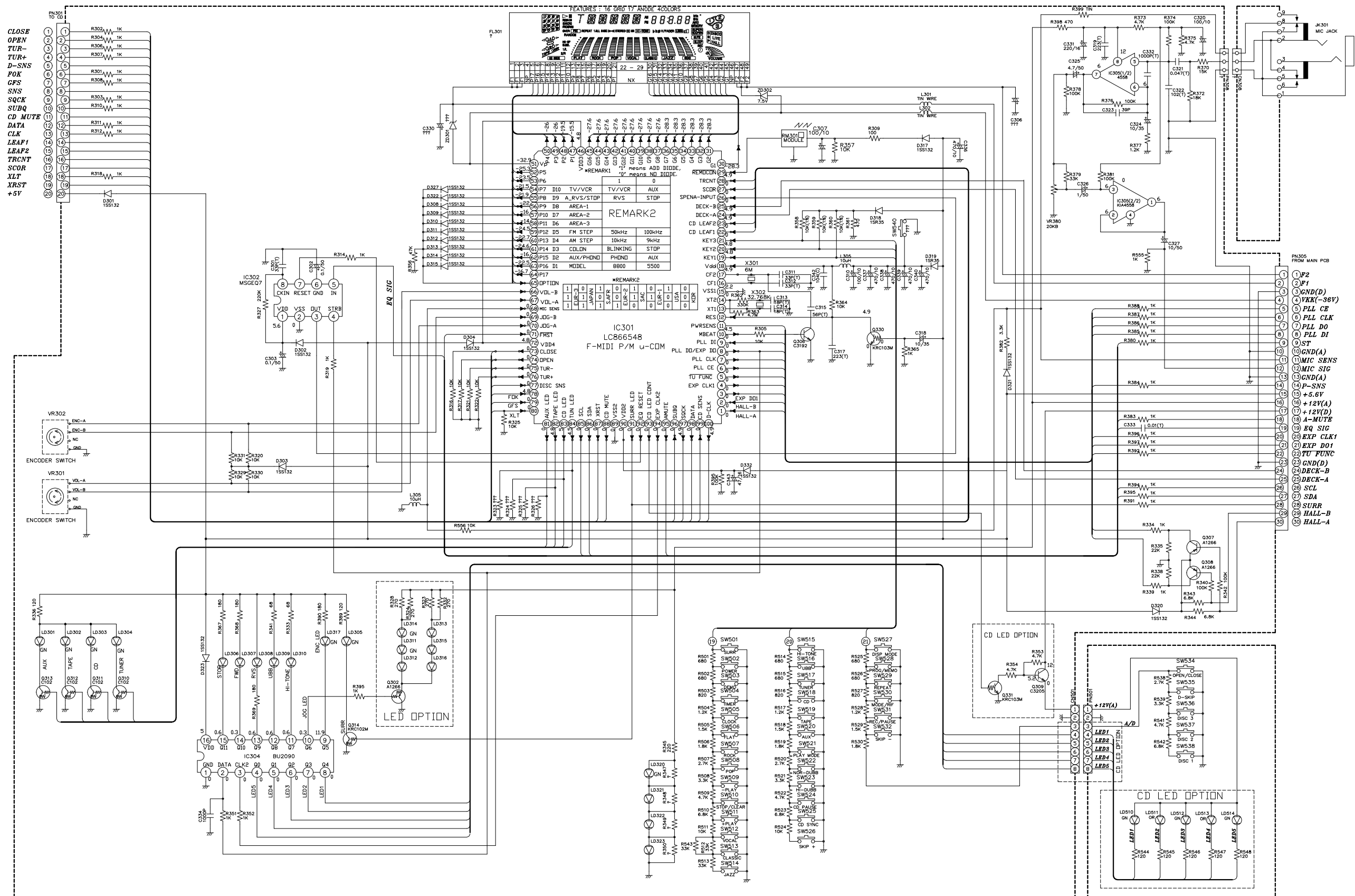






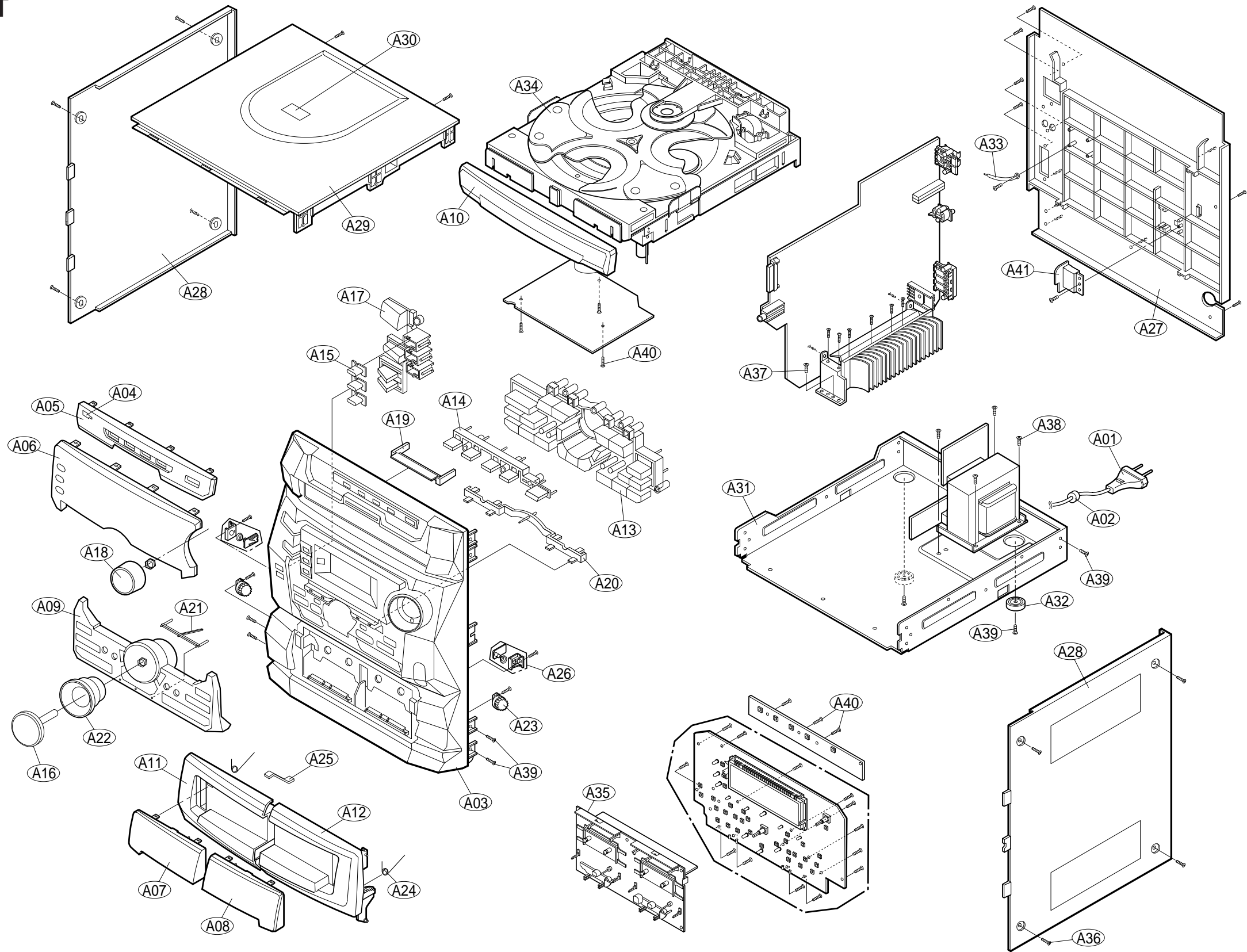
6850S-GP24A (TO PICK UP)





# EXPLODED VIEW/PARTS LIST

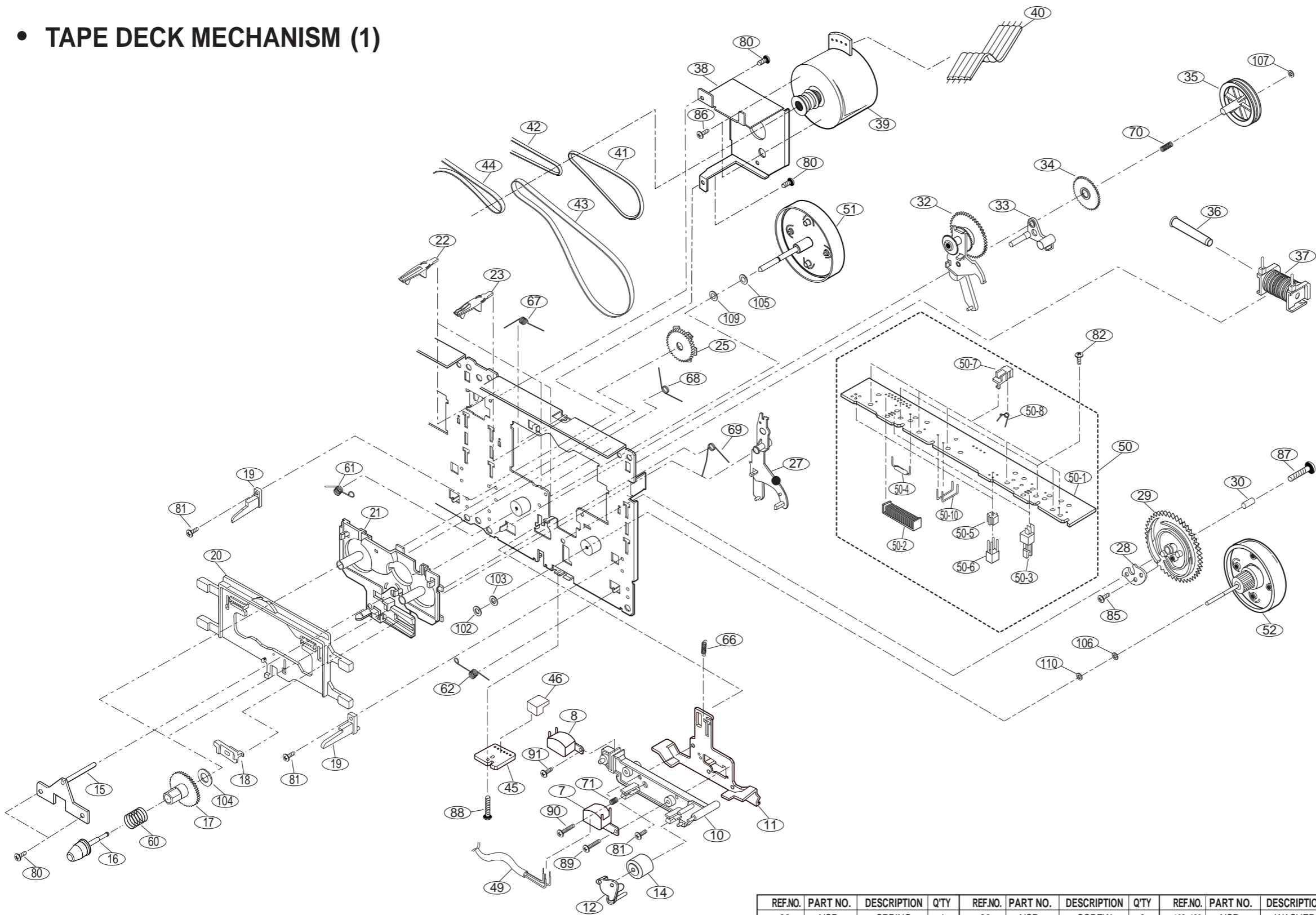
- CABINET



S	LOCA.NO.	PART NO.(GS)	DESCRIPTION	SPECIFICATION	VC
	A01	681N039B	CORD POWER	ACUST/S-0-0053 HITACHI SH	HZ
	A02	324-620A	HOLDER	CORD HEYCD SR-5N-4 HPD	
	A03	3720SCM035B	PANEL, FRONT	FRONT	HZ
	A04	3846S-0193A	MARK	BADGE LG(RED+SILVER)	
	A05	3790SCM055*	WINDOW	CD AL BAD	HZ
	A06	3790SCM054*	WINDOW	AMP	HZ
	A07	3790SCM023*	WINDOW	CST L PLAYBACK	HZ
	A08	3790SCM023*	WINDOW	CST R SYNCHRO DU	HZ
	A09	3550SCM014*	COVER	FRONT	HZ
	A10	3580SCC877*	DOOR	CD SOUNDMASTER	HZ
	A11	3580SCA344*	DOOR	CST-L	HZ
	A12	3580SCA345*	DOOR	CST-R	HZ
	A13	4940SCM058B	KNOB	MAIN	HZ
	A14	4940SCM059A	KNOB	DISC	HZ
	A15	4940SCM060A	KNOB	POWER	HZ
	A16	4940SCM061A	KNOB	JOG VOL	HZ
	A17	4940S-1401G	KNOB	LIGHTING MILKY	HZ
	A18	4940SC0044A	KNOB	VOLUME	HZ
	A19	3680SCM001B	LENS	CD BLUE	HZ
	A20	3680SCM007A	LENS	FUNCTION	HZ
	A21	3680SCM008A	LENS	PLAY	HZ
	A22	3680SCM009A	LENS	JOG	HZ
	A23	4901SK0001C	DAMPER ASSY	GEAR DAMPER AY(WH+WH G331)	HZ
	A24	442-085D	SPRING	SPRING(MINI 10 BG1)	
	A25	442-577B	SPRING	SPRING CST-PACK(H=7.5)	
	A26	384-535A	GUIDE	EJECT AY(FK-535 BD1)DUAL	
	A27	3720SCM041*	PANEL	BACK 3000	HZ
	A28	3090SCC004B	CABINET	SIDE	HZ
	A29	3090SCC003C	CABINET	CABINET TOP	HZ
	A30	246-444K	DECORATION	PLATE SILVER	HZ
	A31	3140SCC059B	CHASSIS	MAIN CHASSIS	HZ
	A32	265-024A	FOOT	ABS(BK)19.7 H=7 F-1000/59	HZ
	A33	562-050Q	LUG	LUG WIRE BEND L=80	
	A34	4405SCE002A	MECHANISM ASSY	CDM-H1303 SHIN HEUNG CD C	HZ
	A35	6730S-G004A	DECK MECHANISM	CWL44FF-03 PIGEON L-DOUBL	HZ
	A36	353-070C	SCREW	TAPTITE WASHER 4X12 FBK	HZ
	A37	353-022M	SCREW	TAPTITE 3X6 FZMY PAN S-TY	HZ
	A38	1TRL0402418	BRAIZER HEAD TA	D 4.0 L 8.0 MSWR3/FZY	HZ
	A39	1TRL0302018	BRAIZER HEAD TA	D 3.0 L 6.0 MSWR3/FZY	HZ
	A40	353-025C	SCREW	TAPTITE 3X10 FBK	HZ
	A41	552-625K	SWITCH SLIDE	CL04-SS(NR541)	HZ

EXPLODED VIEW/PARTS LIST

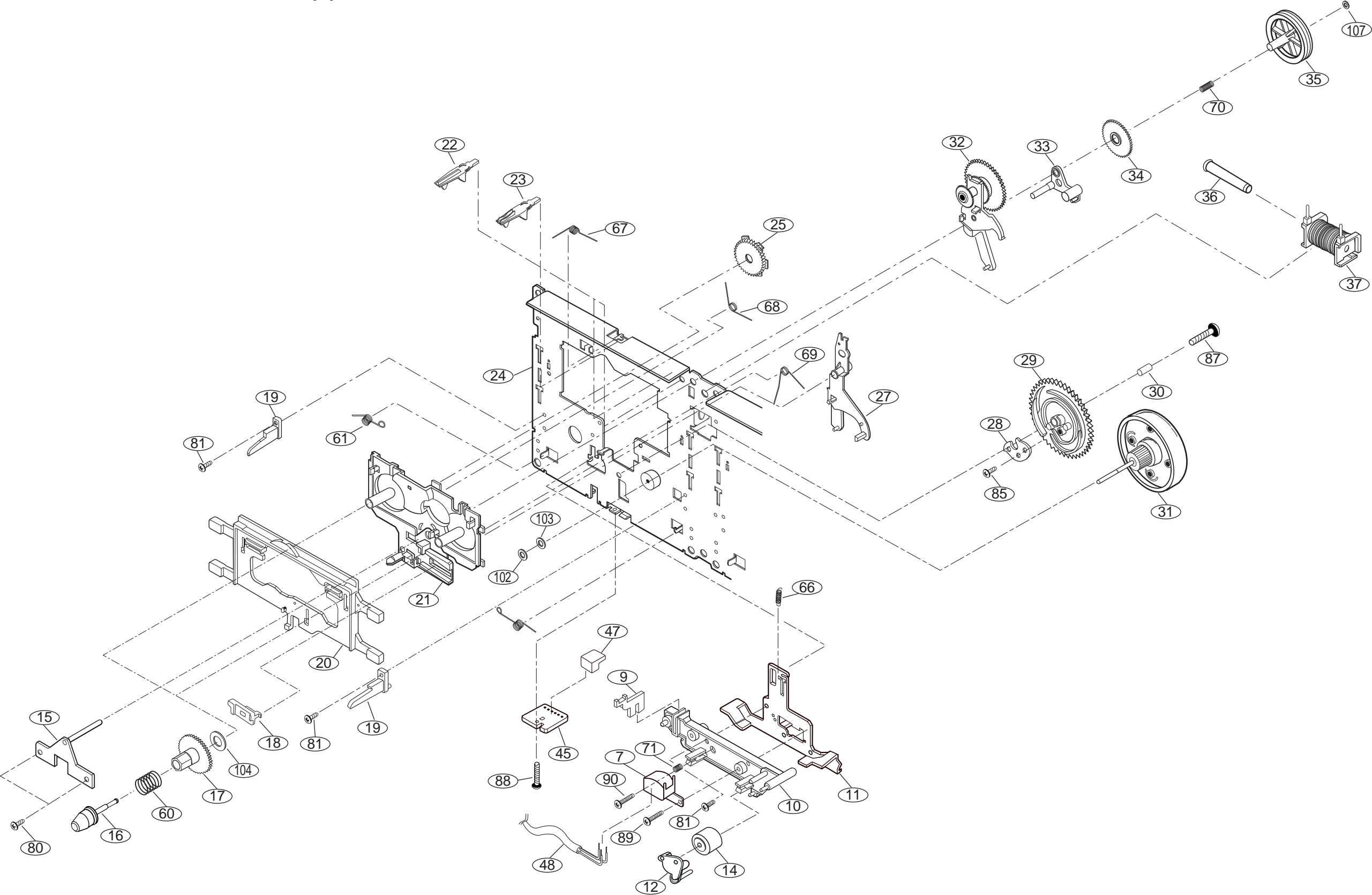
• TAPE DECK MECHANISM (1)



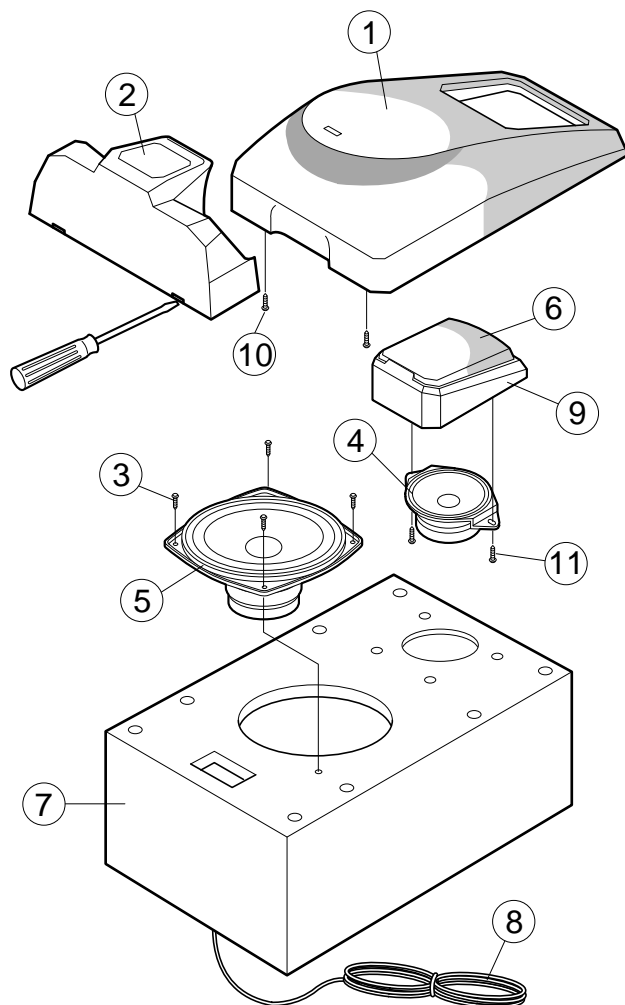
REF.NO.	PART NO.	DESCRIPTION	Q'TY	REF.NO.	PART NO.	DESCRIPTION	Q'TY	REF.NO.	PART NO.	DESCRIPTION	Q'TY
60	NSP	SPRING	4	80	NSP	SCREW	6	102-103	NSP	WASHER	2
61-71	NSP	SPRING	2	81	NSP	SCREW	8	104	NSP	WASHER	4
				82-90	NSP	SCREW	2	106-107	NSP	WASHER	2
				91	NSP	SCREW	1	110	NSP	WASHER	1

REF.NO.	PART NO.	DESCRIPTION	Q'TY
7	6768S-HP03A	PB HEAD	2
8	NSP	E HEAD	1
9	6768S-HP03B	GUIDE TAPE	1
10	NSP	PLATE HD	2
11	NSP	CHASSIS HD	2
12	NSP	CAP PINCH R	2
14	NSP	ROLLER PINCH	2
15	NSP	ASS'Y PLATE D	2
16	NSP	CAP REEL	4
17	NSP	GEAR REEL	4
18	NSP	LEVER ST	2
19	NSP	GUIDE C	4
20	NSP	LEVER BRAKE B	2
21	NSP	FRAME A	2
22	6768S-AP02C	ARM SW	3
23	6768S-AP02B	ARM CS	2
24	NSP	ASS'Y CHASSIS	1
25	NSP	ASS'Y COVER	2
27	6768S-MP02A	ARM TRIGGER	2
28	NSP	ARM CAM	2
29	NSP	GEAR CAM	2
30	NSP	COLLER	2
32	6768S-GP02A	ASS'Y CLUTCH	2
33	NSP	ARM UD B	2
34	NSP	GEAR UD	2
35	NSP	PULLEY D	2
36	NSP	PLUNGER	2
37	6768S-VP01A	ASS'Y BOBBIN	2
38	NSP	BRACKET MM	1
39	6768S-OP01A	ASS'Y MOTOR	1
40	NSP	WIRE MM	1
41	6768S-BP04A	BELT BFR	1
42	6768S-BP04B	BELT AFR	1
43	6768S-BP04C	BELT BF	1
44	6768S-BP04D	BELT AF	1
45	NSP	PCB HD	1
46	NSP	HOUSING	1
47	NSP	HOUSING	1
48	NSP	WIRE HD B	1
49	NSP	WIRE HD C	1
50	NSP	ASS'Y PCB	1
50-1	NSP	PCB	1
50-2	NSP	HOUSING	1
50-3	NSP	MODE SW	2
50-4	NSP	RESISTER	1
50-5	NSP	SPACER	2
50-6	6768S-XP01B	PHOTOINTERRUPTER	2
50-7	6768S-MP02A	BOX SW	5
50-8	6768S-SP02A	SPRING SW	5
50-10	NSP	JAMPER WIRE	2
52	NSP	ASS'Y FLYWHEEL L	2

• TAPE DECK MECHANISM (2)



# EXPLODED VIEW/PARTS LIST



NO	DESCRIPTION	PART NO.	Q <sup>TY</sup>
1	NET ASS'Y	3701SM0015A	1
2	PANEL FRONT	3720SMM029A	1
3	SCREW (3.5X16)	353M050C	4
4	TWEETER	6400SCEB02D	1
5	WOOFER	6400SCEH01A	1
6	GRILLE METAL	3530SMM016A	1
7	CABINET ASS'Y	3091SMW022A	1
8	CORD ASS'Y	564M033L	1
9	HOLDER METAL	4930SM0012B	1
10	SCREW(3°ø12)	353M025K	2
11	SCREW(3°ø8)	353M025F	2