

# SECTION 1. GENERAL

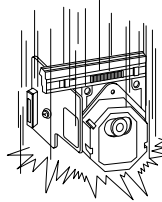
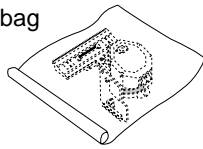
## SERVICING PRECAUTIONS

### 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.

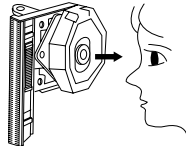
Storage in conductive bag



Drop impact

#### 2. Repair notes

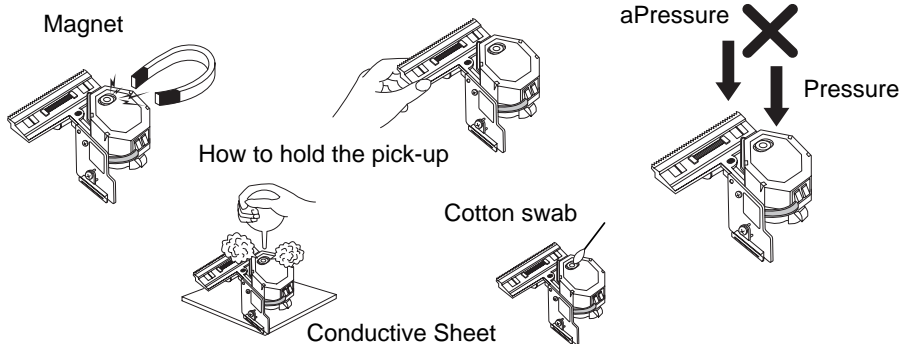
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational 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.



#### 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.

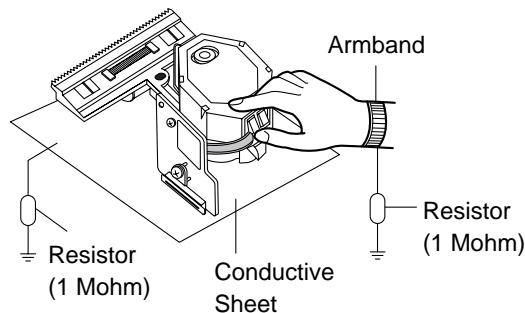
# NOTES REGARDING COMPACT DISC PLAYER REPAIRS

## 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.



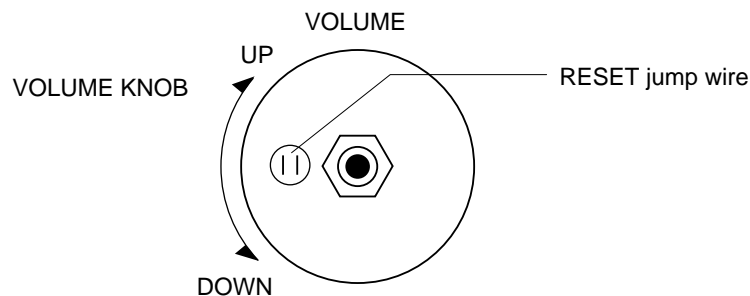
## CLEARING MALFUNCTION

You can reset your unit to initial status if malfunction occur(button malfunction, display, etc.).

Using a pointed good conductor(such as driver), simply short the RESET jump wire on the inside of the volume knob for more than 3 seconds.

If you reset your unit, you must reenter all its settings(stations, clock, timer)

- NOTE:** 1. To operate the RESET jump wire, pull the volume rotary knob and release it.  
2. If you wish to operate the RESET jump wire, it is necessary to unplug the power cord.



# 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).

# SPECIFICATIONS

## 1. AMP SECTION

	Main	Super Woofer
1) Power Output (6 $\Omega$ , 2 channel, T.H.D. 10%) .....	30W+30W	120W+120W
2) T.H.D 0.2% .....	0.2%	1.0%
3) Frequency Response (-3dB down) .....	700Hz~25kHz	45Hz~700Hz
4) Signal-to-noise Ratio .....	85dB	75dB
5) Input Sensitivity AUX .....	400 $\pm$ 50mV	400 $\pm$ 50mV
6) Channel Difference 1kHz .....	2dB	-

## 2. TUNER SECTION

### 1) FM/OIRT

1) Frequency Range .....	87.5MHz~108MHz or 65.0MHz~74.0MHz & 87.5MHz~108MHz
2) Intermediate Frequency .....	10.7MHz
3) Sensitivity (70MHz/78.6MHz/83.0MHz/86.6MHz/90MHz/98MHz) .....	12dB
4) Signal-to-noise Ratio 98.1MHz(Mono/Stereo).....	61dB/58dB
5) Image Rejection 106.1MHz.....	20dB
6) IF Rejection 90.1MHz .....	65dB
7) Distortion 98.1MHz(Mono/Stereo).....	1.2/1.2%
8) Frequency Response (-3dB) .....	60Hz~10kHz
9) Stereo Separation (100Hz/1kHz/10kHz).....	$\pm$ 23dB

### 2) AM(MW)

1) Frequency Range .....	522kHz~1611kHz/530kHz~1610kHz/530kHz~1720kHz
2) Intermediate Frequency .....	450kHz
3) Usable Sensitivity.....	55dB
4) Image Rejection (1404kHz) .....	25dB
5) IF Rejection (603kHz) .....	40dB
6) Selectivity (1008kHz) .....	23dB
7) Signal-to-noise Ratio (1008kHz) .....	35dB
8) Distortion (1008kHz) .....	1.5%
9) Frequency Response (1008kHz).....	100Hz~1800Hz

### 3) SW(OPTIONAL)

1) Frequency Range .....	5.8MHz~18MHz
2) Intermediate Frequency .....	450kHz
3) Usable Sensitivity.....	40dB
4) Signal To Noise Ratio .....	35dB
5) Distortion .....	3%

### 4) LW(OPTIONAL)

1) Frequency Range .....	153kHz~281kHz
2) Intermediate Frequency .....	450kHz
3) Usable Sensitivity.....	65dB
4) Signal To Noise Ratio (200kHz).....	28dB
5) Distortion (200kHz) .....	3%

### 3. TAPE DECK SECTION

1) Tape Speed (MTT-111) / Normal Speed .....	4.75(+2%, -1%)cm/sec
2) Wow Flutter (MTT-111) .....	0.25%
3) Fast Forward and Rewind Time (C-60) .....	120sec
4) Frequency Response (6dB range) .....	125Hz~8kHz
5) Signal-to-noise Ratio (Playback/Record).....	43dB/43dB
6) Distortion (Playback/Record) .....	3% / 4%
7) Crosstalk (Playback: 1kHz).....	55dB
8) Channel Separation (Playback: 1kHz).....	50dB
9) Erase Ratio .....	55dB

### 4. COMPACT DISC PLAYER SECTION

1) Frequency Response (200Hz-18kHz) .....	+0.5/-3.0dB
2) Signal-to-noise Ratio (1kHz) .....	70dB
3) Dynamic Range (1kHz).....	70dB
4) T.H.D. (1kHz) .....	0.2%
5) Separation (100Hz/1kHz/10kHz).....	45dB/45dB/40dB
6) Access Time Short / Long .....	2sec/5sec

### 5. GENERAL

1) Power requirement.....	Refer to the back panel of unit
2) Power consumption .....	170W
3) Dimension (W x H x D).....	273 x 326 x 360 (mm)
4) Weight (net).....	9.1kg

**NOTE : Specification are subject to change without notice in the course of product improvement.**

# SECTION 2. ELECTRICAL ADJUSTMENTS

This set has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modify any circuit. If any parts are replaced or if anyone tampers with the adjustment, realignment may be necessary.

## IMPORTANT

1. Check Power-source voltage.
2. Set the function switch to band being aligned.
3. Turn volume control to minimum unless otherwise noted.
4. Connect low side of signal source and output indicator to chassis ground unless otherwise specified.
5. Keep the signal input as low as possible to avoid AGC and AC action.

## TAPE DECK ADJUSTMENT

### 1. AZIMUTH ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
A Deck Playback	MTT-114	Speaker Out	DECK Screw Azimuth Screw	Maximum
B Deck Playback	MTT-114	Speaker Out	Azimuth Screw	Maximum

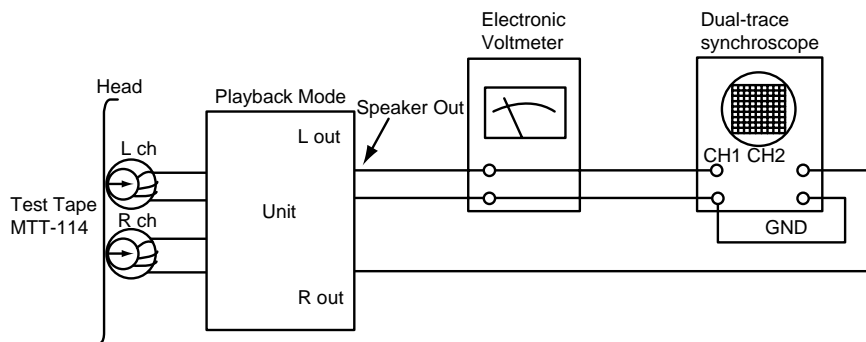


Figure 1. Azimuth Adjustment Connection Diagram

### 2. MOTOR SPEED ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for	Remark
Normal Speed	MTT-111	Speaker Out	VR201	3kHz $\pm$ 1%	A Deck
HI-Speed	MTT-111	Speaker Out	more than 5.4kHz		HI-Speed Dubbing Mode

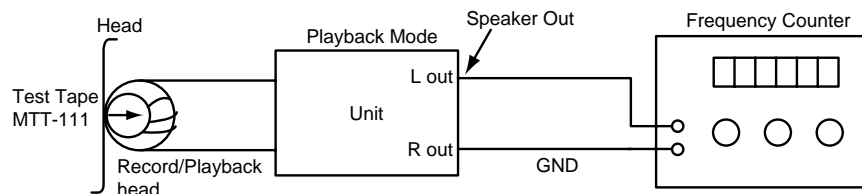


Figure 2. Motor Speed Adjustment Connection Diagram

### 3. RECORD BIAS ADJUSTMENT

Deck Mode	Test Tape	Test Point	Adjustment	Adjust for
Rec/Pause	MTT-5511	ERASE HEAD WIRE(PN202)	L203	60kHz±5kHz (Auto stop) 85kHz±5kHz(Auto Reverse)

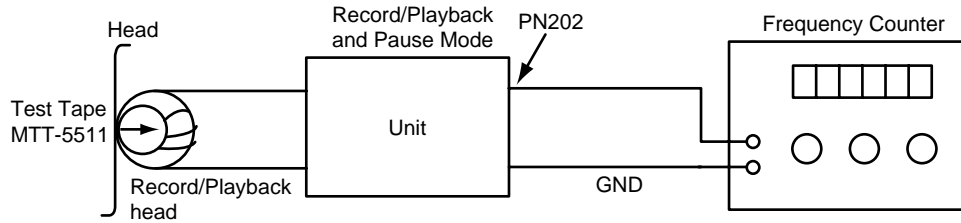


Figure 3. Record Bias Adjustment Connection Diagram

### 4. TUNER ADJUSTMENT

Item	Test Point	Adjustment	Adjust for
DC Voltage	Checker Pin	L106	0V±50mV
AM IF	Speaker out	L101	MAXIMUM

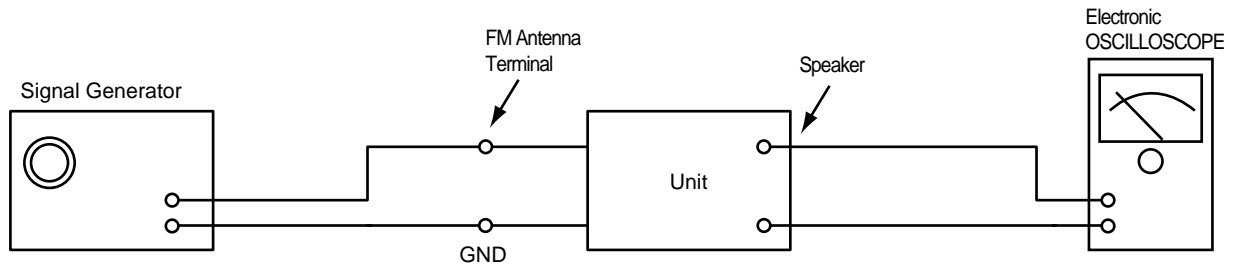
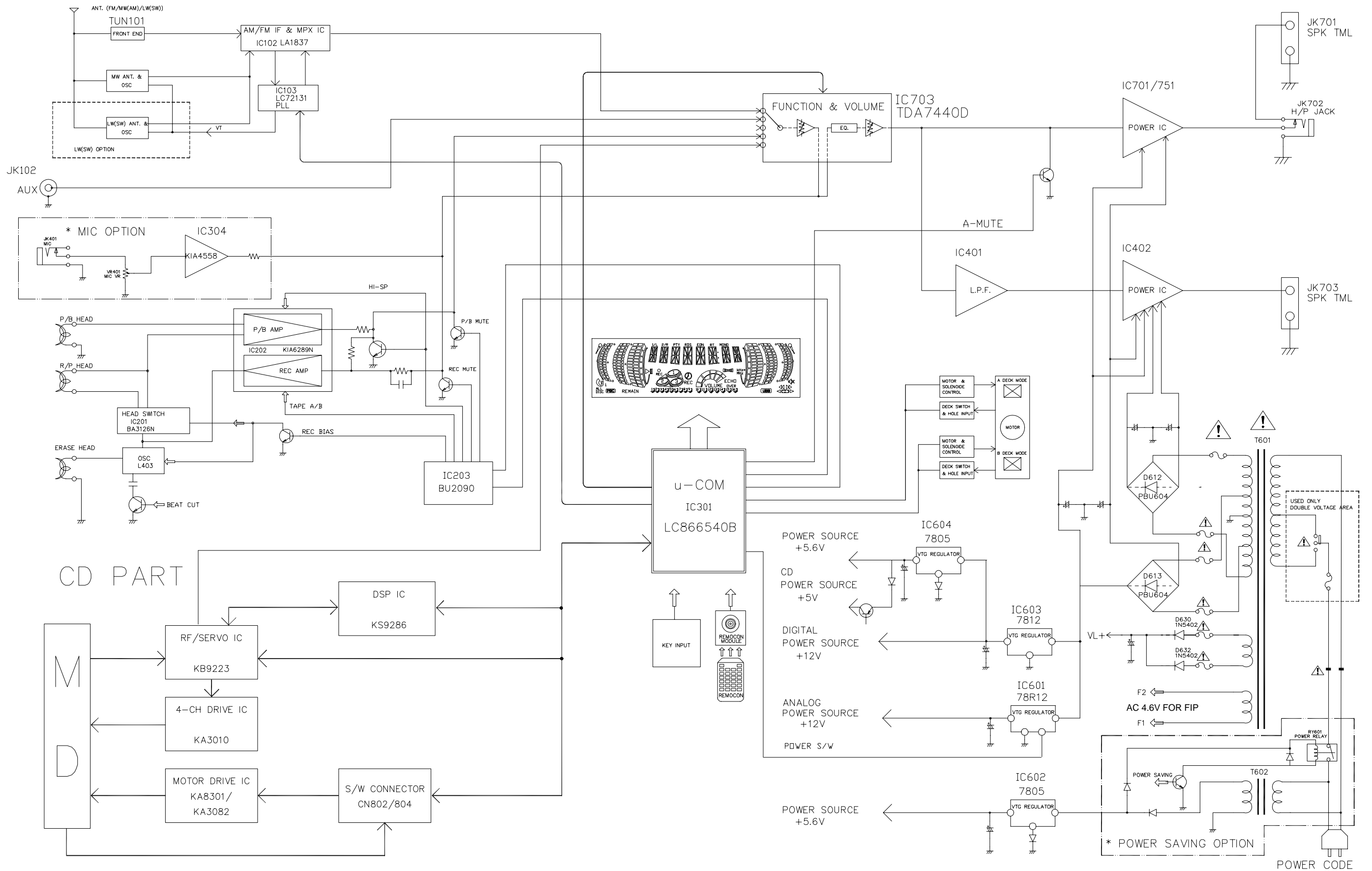


Figure 4. Tuner(S curve) Adjustment Connection Diagram

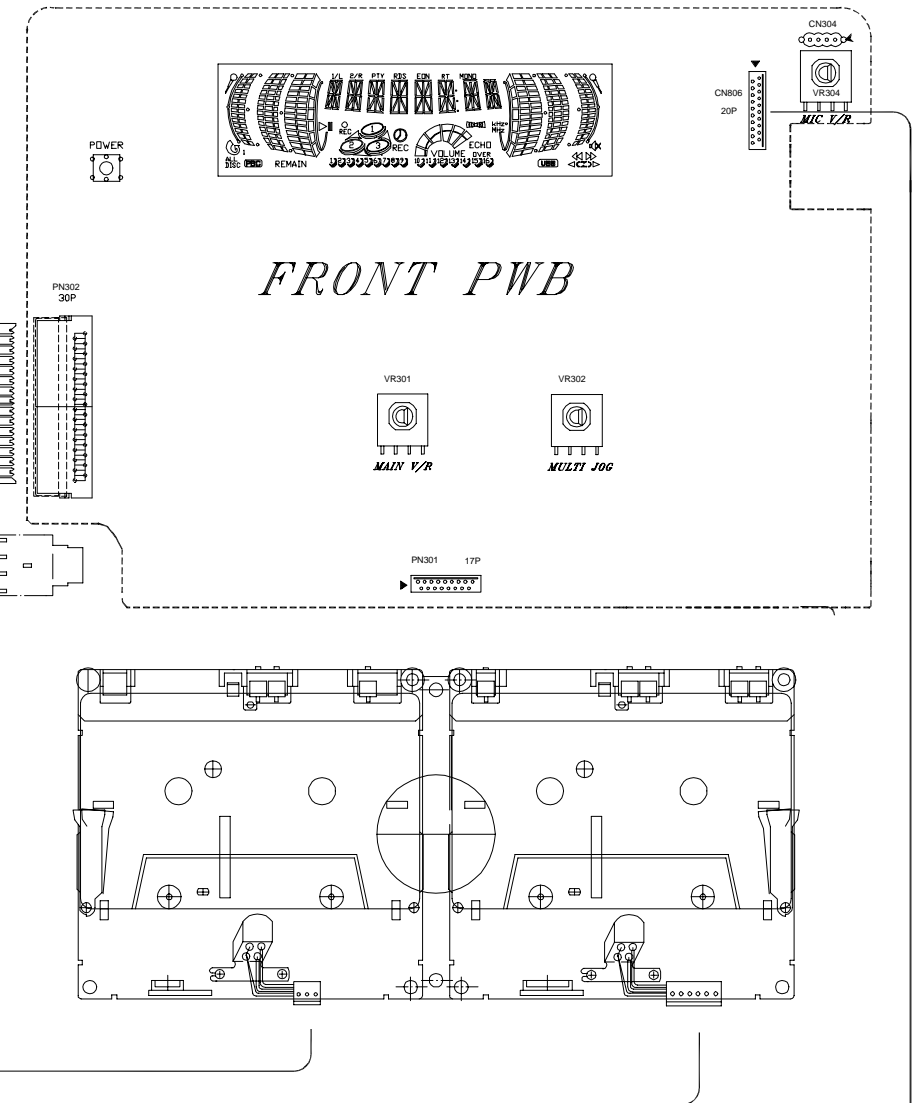
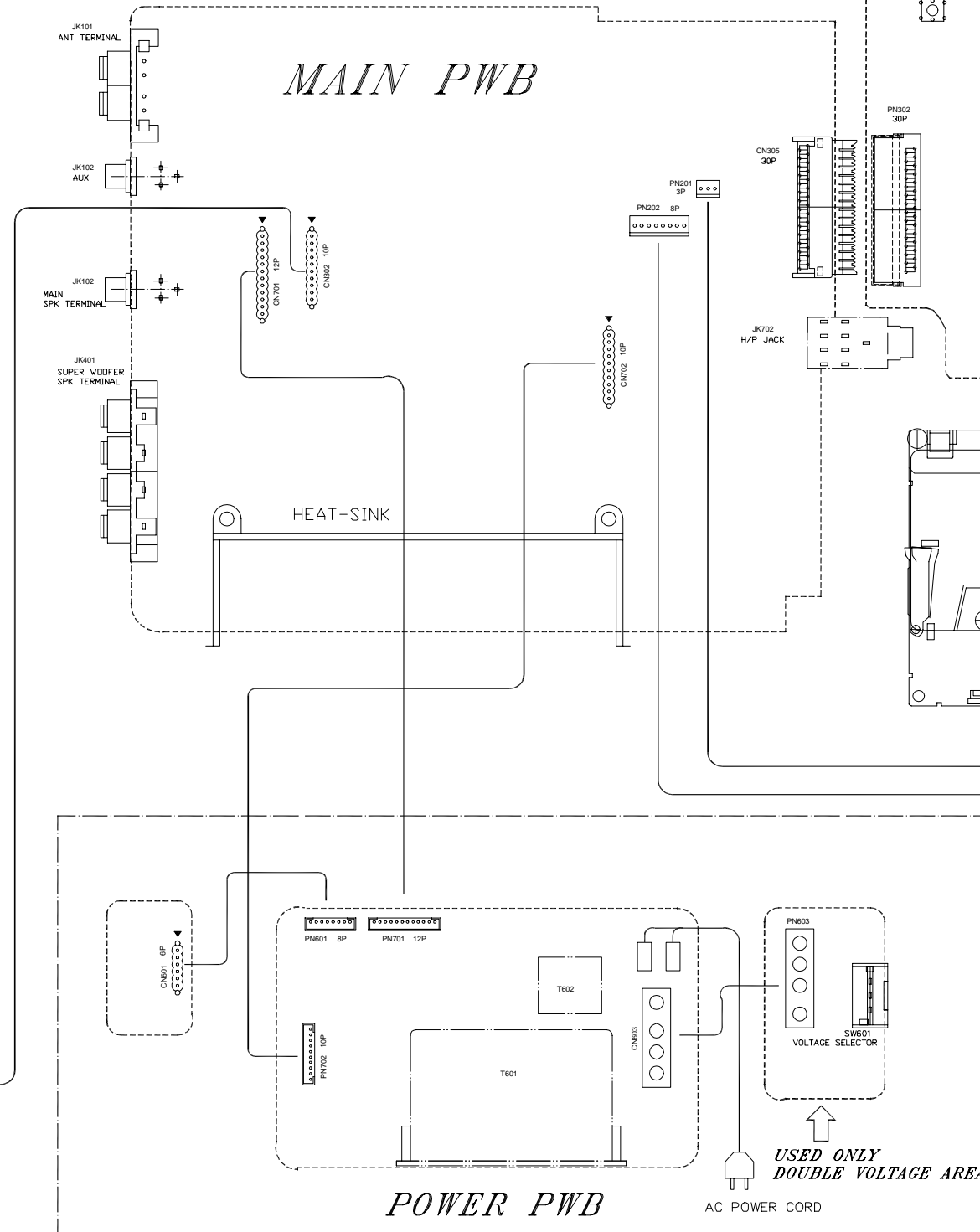
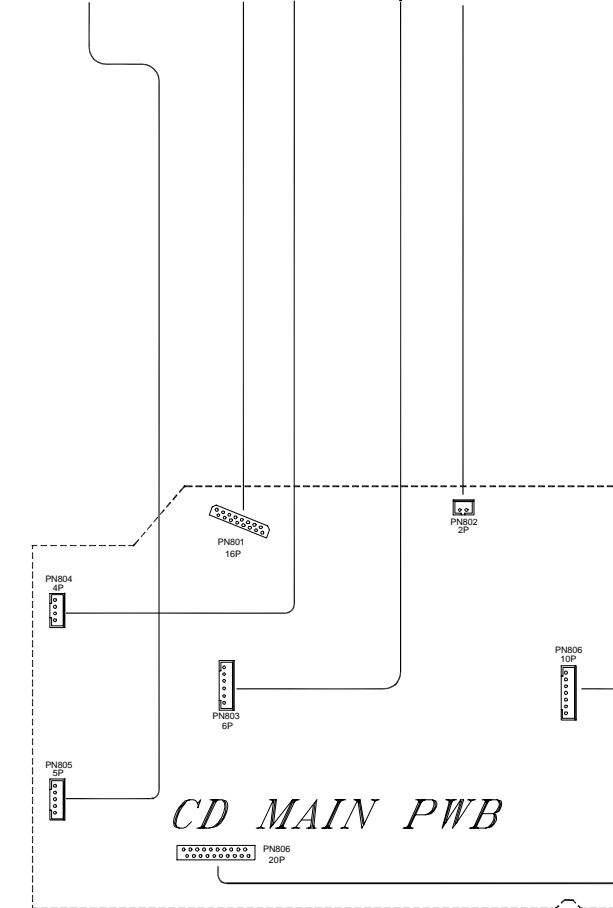
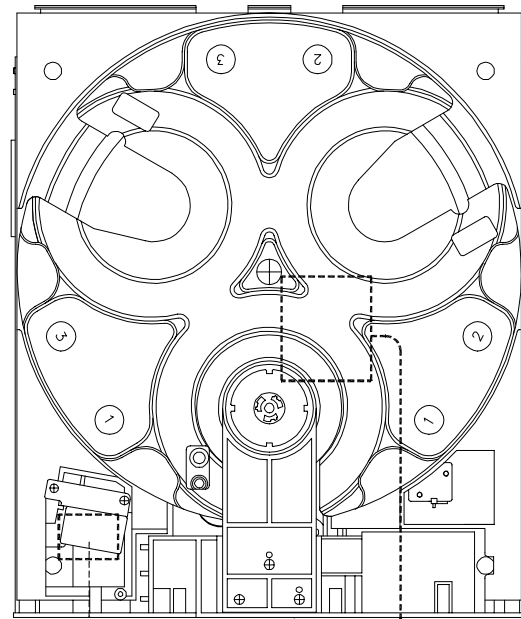
# BLOCK DIAGRAM





# WIRING DIAGRAM

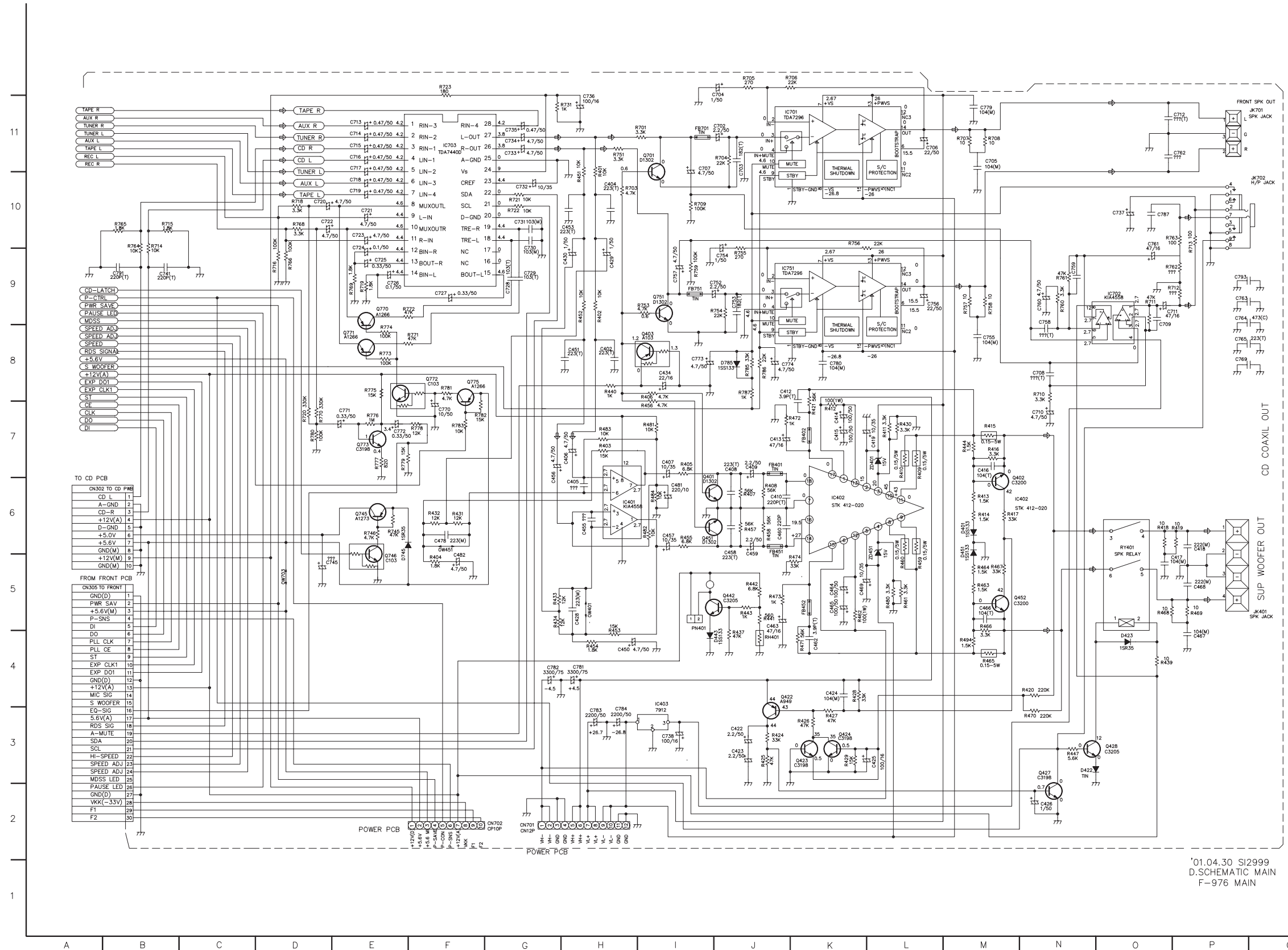
## 3CD CHANGER MECHANISM ASSY



NOTES : 1. Wiring diagram for this model are subject to change for improvement without prior notice.

# SCHEMATIC DIAGRAMS

## • AMP/POWER SCHEMATIC DIAGRAM

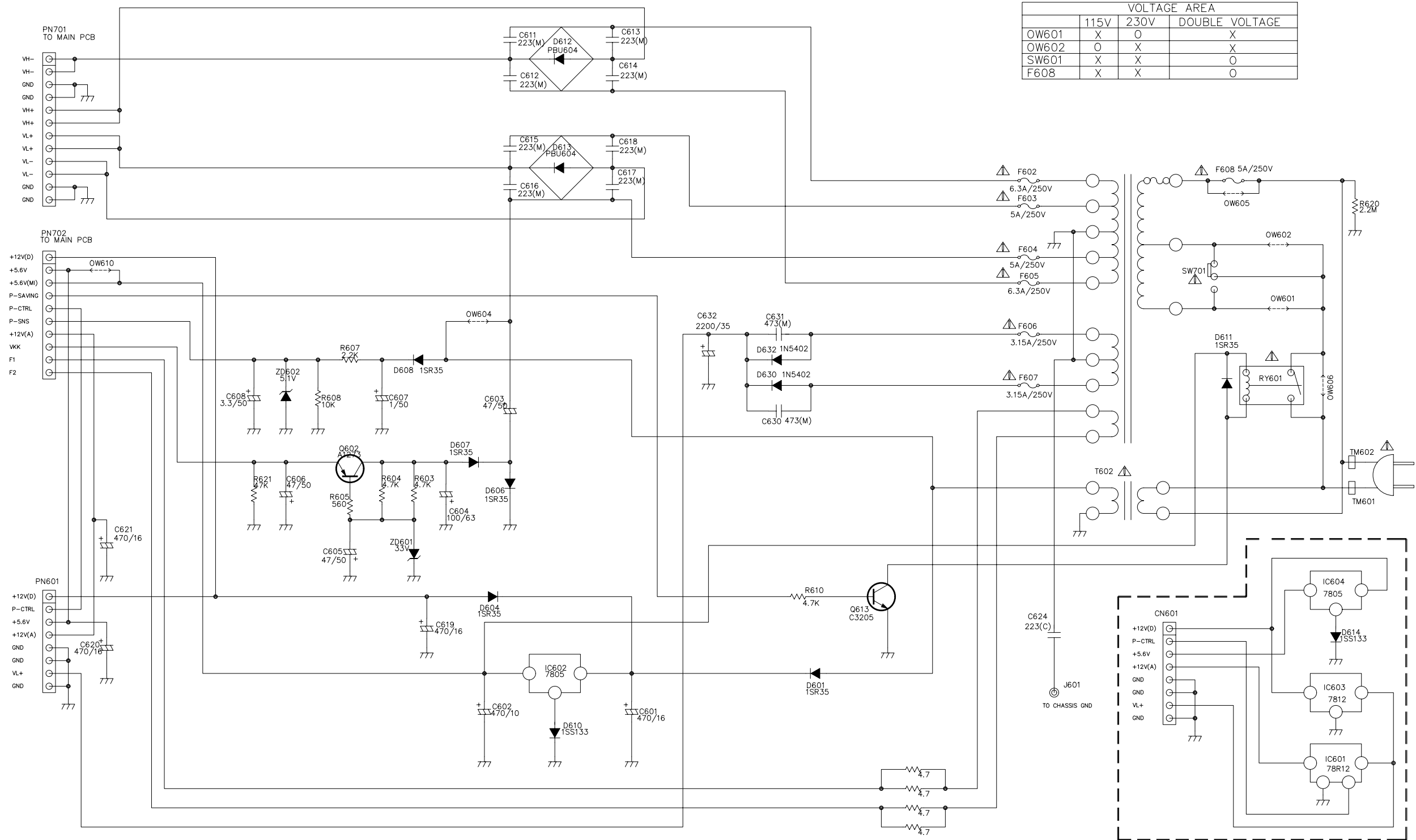


LOCATION GUIDE

C402	H8	CN702	G2	R484	I6
C404	H10	D401	M6	R494	M4
C405	H6	D422	N3	R701	H11
C406	H7	D423	O4	R709	I10
C407	I7	D443	J4	R704	J11
C408	J7	D451	M5	R705	J12
C409	J7	D745	E5	R706	J12
C410	J6	D785	J8	R707	M11
C412	J8	FB401	J7	R708	M11
C413	J7	FB402	K7	R709	I10
C414	K7	FB451	J6	R710	N8
C415	K7	FB452	K5	R711	O9
C416	M7	FB701	I11	R712	O9
C417	O5	FB751	I9	R719	P9
C418	P6	IC401	H6	R714	B10
C419	L7	IC402	M6	R715	B10
C422	J3	IC403	I4	R716	D9
C423	J3	IC701	J11	R718	D10
C424	K4	IC702	O9	R719	E9
C425	L3	IC703	F11	R720	D7
C426	N2	IC751	J9	R721	G10
C428	H5	JK401	O5	R722	G10
C429	H9	JK701	O11	R723	F12
C430	H9	JK702	O10	R731	H11
C434	I8	OW401	H5	R745	E6
C450	H4	OW451	F6	R746	E6
C451	H8	OW703	D5	R751	H11
C453	H10	PN401	I5	R753	B9
C455	H6	Q401	I6	R754	I9
C456	G6	Q402	M6	R755	J9
C457	I6	Q403	I8	R756	K10
C458	J6	Q422	J4	R757	M9
C459	J5	Q423	K3	R758	M9
C460	J6	Q424	K3	R759	I9
C462	K4	Q427	N3	R760	N9
C463	J5	Q428	O3	R761	N9
C464	K5	Q442	J5	R762	O9
C465	K5	Q451	I6	R763	O10
C466	M5	Q462	M5	R764	B10
C467	P4	Q701	I11	R765	B10
C468	P5	Q745	E6	R766	D9
C469	K5	Q746	E5	R768	D10
C478	F6	Q751	I9	R769	E9
C481	I6	Q770	E9	R770	E9
C482	F5	Q771	E8	R771	E8
C702	J11	Q772	F8	R772	E9
C703	J10	Q773	E7	R773	E8
C704	I11	Q775	F8	R774	E8
C705	M11	R401	H10	R775	E8
C706	L11	R402	H9	R776	E7
C707	H10	R403	H7	R777	E7
C708	N8	R404	F5	R778	F7
C709	N8	R405	I7	R779	E7
C710	N7	R406	I8	R780	D7
C711	O9	R407	J6	R781	F8
C712	H11	R408	J6	R782	F7
C713	E11	R409	L6	R783	F7
C714	E11	R410	L7	R785	J8
C715	E11	R411	L7	R786	J8
C716	E11	R412	K7	R787	J8
C717	E11	R413	M6	RH401	J4
C718	E10	R414	M6	RY401	O6
C719	E10	R415	M7	ZD401	L7
C720	D10	R416	M7	ZD451	L5
C721	D10	R417	M6		
C722	D10	R418	O6		
C723	D10	R419	F6		
C724	N4	R420	N4		
C725	E9	R421	K7		
C726	E9	R424	J3		
C727	F9	R425	J3		
C728	G9	R426	K3		
C729	G9	R427	K3		
C730	G9	R428	K4		
C731	G10	R429	K3		
C732	G10	R430	L7		
C733	G11	R431	F6		
C734	G11	R432	F6		
C735	G11	R433	G5		
C736	H11	R434	G5		
C737	O10	R437	J4		
C738	I3	R439	O4		
C741	B9	R440	H8		
C745	D5	R441	J5		
C752	I9	R442	J5		
C753	J9	R443	J5		
C754	J9	R444	M7		
C755	M8	R447	N3		
C756	L9	R451	H10		
C757	I9	R452	H9		
C758	N9	R453	H4		
C759	N9	R454	H4		
C760	N9	R455	I6		
C761	O10	R456	I7		
C762	P11	R457	J6		
C763	P9	R458	J6		
C764	P9	R459	L5		
C765	P8	R460	L5		
C769	P8	R461	L5		
C770	F7	R462	K5		
C771	E7	R463	M5		
C772	E7	R464	M5		
C773	I8	R465	M4		
C774	J8	R466	M5		
C779	M11	R467	M5		
C780	K8	R468	O5		
C781	H4	R469	P5		
C782	G4	R470	N3		
C783	H3	R471	K4		
C784	H3	R472	J7		
C787	O10	R473	J5		
C791	B9	R474	J5		
C793	P9	R480	L5		
CN302	A6	R481	I7		
CN305	A5	R482	I6		
CN701	G2	R483	H7		

'01.04.30 SI2999  
D.SCHEMATIC MAIN  
F-976 MAIN

# • POWER SCHEMATIC DIAGRAM

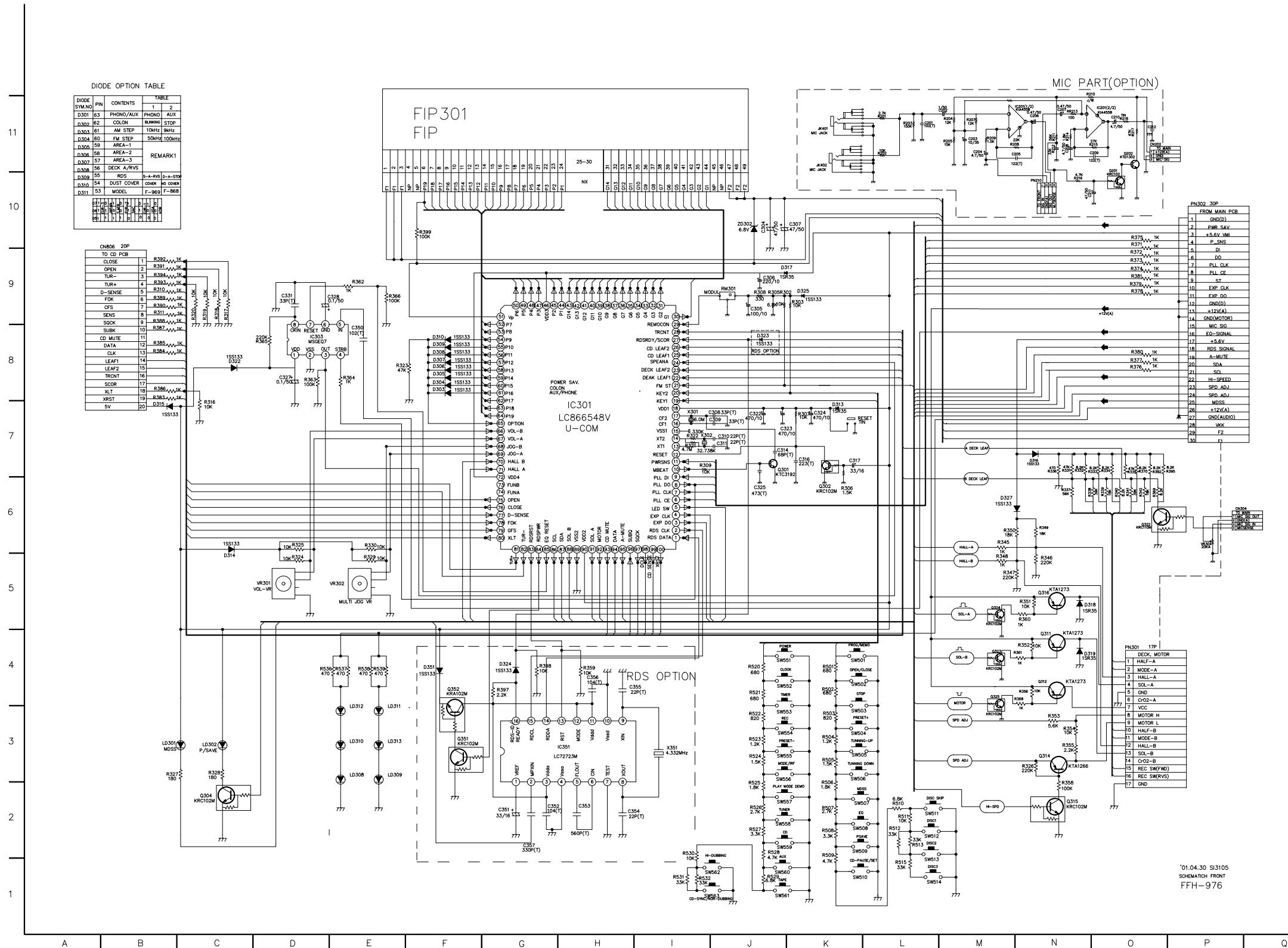


VOLTAGE AREA			
	115V	230V	DOUBLE VOLTAGE
OW601	X	O	X
OW602	O	X	X
SW601	X	X	O
F608	X	X	O

'01.04.30 R3044AA  
F-976  
POWER

- NOTES :**
1. Resistance values are indicted in ohms unless otherwise specified (K=1,000, M=1,000,000).
  2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
  3. Schematic diagram for this model are subject to change for improvement without prior notice.

# FRONT SCHEMATIC DIAGRAM



DIODE OPTION TABLE

DIODE SYM.NO	FN	CONTENTS	TABLE
			1 2
D301	63	PHONO/AUX	PHONO AUX
D302	62	COLON	PHONO STOP
D303	61	AM STEP	10MHz 9MHz
D304	60	FM STEP	50kHz 100kHz
D305	59	AREA-1	
D306	58	AREA-2	REMARK1
D307	57	AREA-3	
D308	56	DECK A/RVS	
D309	55	RDS	S-A-RVS D-A-STOP
D310	54	DUST COVER	COVER NO COVER
D311	53	MODEL	F-969 F-968

CN806 20P

TO CD PCB	1	R392	1K
CLOSE	2	R391	1K
OPEN	3	R384	1K
TUR-	4	R393	1K
TUR+	5	R310	1K
D-SENSE	6	R309	1K
FOK	7	R300	1K
QFS	8	R311	1K
SENS	9	R308	1K
SOCK	10	R387	1K
SUBK	11	R385	1K
DATA	12	R384	1K
CLK	13	R384	1K
LEAF1	14		
LEAF2	15		
TRIGHT	16		
SOOR	17		
XL T	18		
XRT	19		
5V	20		

## LOCATION GUIDE

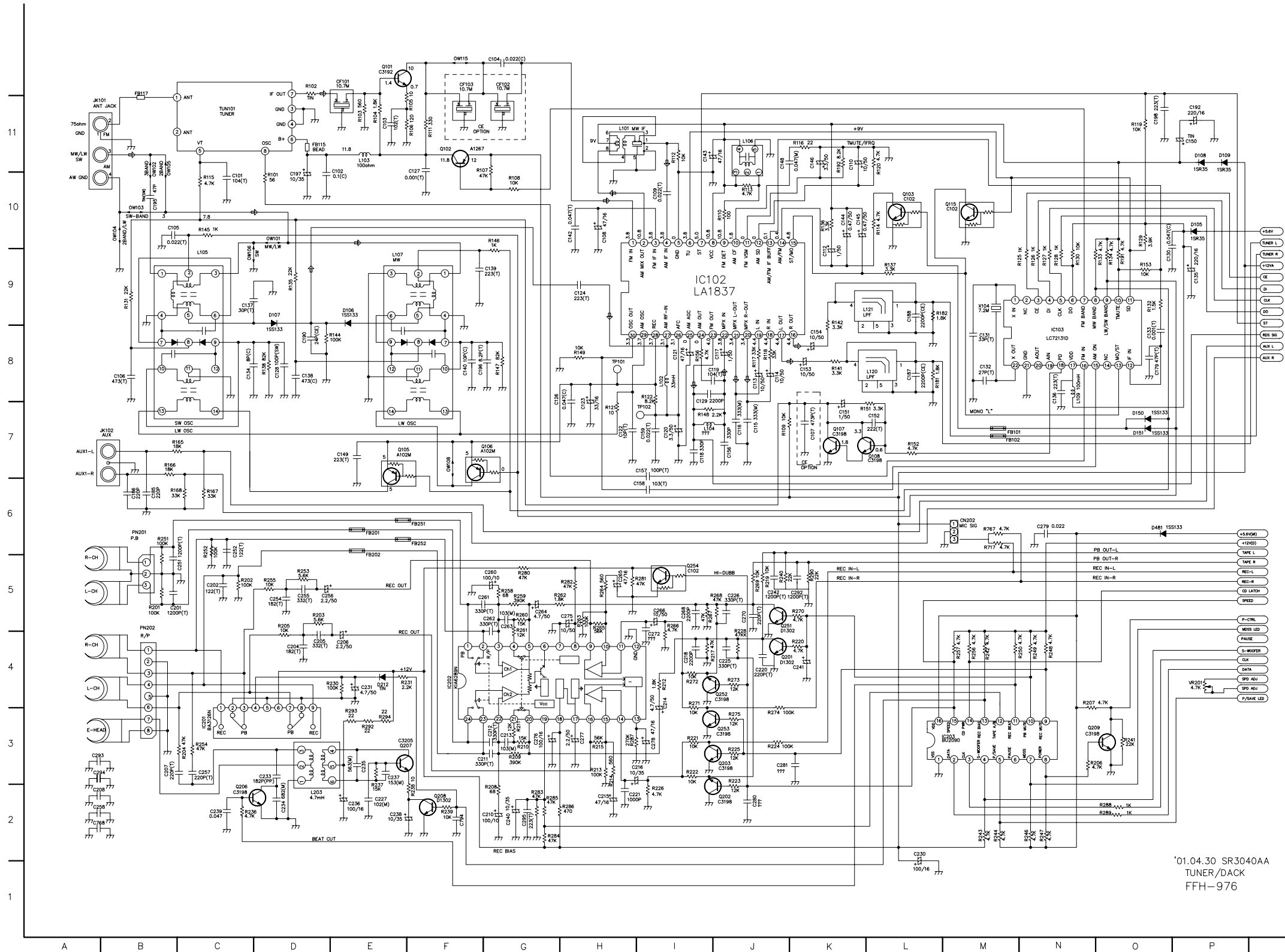
C201	L11	R306	K6	RESET	K7
C202	M11	R307	K7	RM301	J9
C203	M11	R308	J9	RR213	N11
C204	M11	R309	I7	SW501	K4
C205	M11	R310	B9	SW502	K4
C206	N11	R311	B9	SW503	K4
C207	N11	R316	C8	SW504	K3
C212	O11	R321	I7	SW505	K3
C209	N11	R318	C9	SW506	K3
C210	O11	R319	C9	SW507	K2
C211	N10	R320	C9	SW508	K2
C304	I10	R322	I7	SW509	K2
C305	J9	R323	E8	SW511	L2
C306	J9	R324	D6	SW512	L2
C307	K10	R325	D6	SW513	L2
C308	I7	R326	N3	SW514	L1
C309	I7	R327	B3	SW551	J4
C310	J7	R328	C3	SW552	J4
C311	J7	R329	E6	SW553	J4
C314	J7	R330	E6	SW554	J3
C316	K7	R331	N7	SW555	J3
C317	K7	R332	N7	SW556	J3
C322	J7	R333	N7	SW557	J2
C323	J7	R334	O7	SW558	J2
C324	K7	R335	O7	SW559	J2
C325	J6	R336	N7	SW560	J1
C327	D8	R337	N6	SW561	J1
C328	D9	R338	N6	SW562	I1
C331	D9	R339	O6	SW563	I1
C340	O9	R340	O6	VR301	D5
C351	G2	R341	O6	VR302	E5
C352	G2	R342	O6	VR304	P6
C353	H2	R345	M6	X301	I7
C354	H2	R346	N6	X302	I7
C355	H4	R347	M5	X351	I3
C356	H4	R348	M6	ZD302	J10
C357	G2	R349	N6		
CN202	O11	R350	M6		
CN304	N5	R351	N5		
CN806	A10	R352	N4		
D303	F8	R353	N3		
D304	F8	R354	N3		
D305	F8	R355	N3		
D306	F8	R356	N4		
D307	F8	R358	N3		
D308	F8	R359	H4		
D309	F8	R360	N5		
D310	F8	R361	M4		
D313	K8	R362	E9		
D314	C6	R363	D8		
D315	B8	R364	E8		
D316	N7	R365	D8		
D317	J9	R366	E9		
D318	N5	R368	M4		
D319	N4	R369	O6		
D322	C8	R370	O7		
D323	J6	R371	O10		
D324	G4	R372	O10		
D325	K9	R373	O9		
D327	M6	R374	O9		
D351	F4	R375	O10		
D351	F4	R375	O10		
FIP301	F11	R376	O8		
IC201(1/2/1)	B11	R377	O8		
IC201(2/2/1)	B11	R378	O9		
IC301	H8	R379	O9		
IC303	D8	R380	O8		
IC351	H3	R381	O9		
JK401	K11	R382	O7		
JK402	K11	R383	B8		
LD301	B3	R384	B8		
LD302	C3	R385	B8		
LD303	C3	R386	B8		
LD309	E3	R387	B9		
LD310	E3	R388	B9		
LD311	E4	R389	B9		
LD312	E4	R390	B9		
LD313	E3	R391	B9		
PN210	N10	R392	B9		
PN301	O4	R393	B9		
PN302	P10	R394	B9		
Q201	O11	R395	O7		
Q202	O11	R397	G4		
Q301	J7	R398	G4		
Q302	K6	R399	F10		
Q304	C2	R501	K4		
Q315	N5	R502	K4		
Q312	N4	R503	K3		
Q314	N3	R504	K3		
Q315	N2	R505	K3		
Q316	N5	R506	K3		
Q322	O6	R507	K2		
Q323	M4	R508	K2		
Q324	M5	R509	K2		
Q325	M4	R510	L2		
Q351	F3	R511	L2		
Q352	F4	R512	L2		
R201	L11	R513	L2		
R202	L11	R515	L2		
R203	L11	R520	L4		
R204	M11	R521	J4		
R205	M11	R522	J3		
R207	M11	R523	J3		
R208	M11	R524	J3		
R209	M11	R525	J3		
R210	N12	R526	J2		
R211	N11	R527	J2		
R212	N11	R528	J2		
R214	N11	R529	J1		
R215	N12	R530	I2		
R216	N11	R531	I1		
R217	O11	R532	I1		
R218	O11	R536	D4		
R307	J9	R537	E4		
R303	J9	R538	E4		
R305	J9	R539	E4		

- NOTES :
1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
  2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
  3. Schematic diagram for this model are subject to change for improvement without prior notice.

# • TUNER SCHEMATIC DIAGRAM

## LOCATION GUIDE

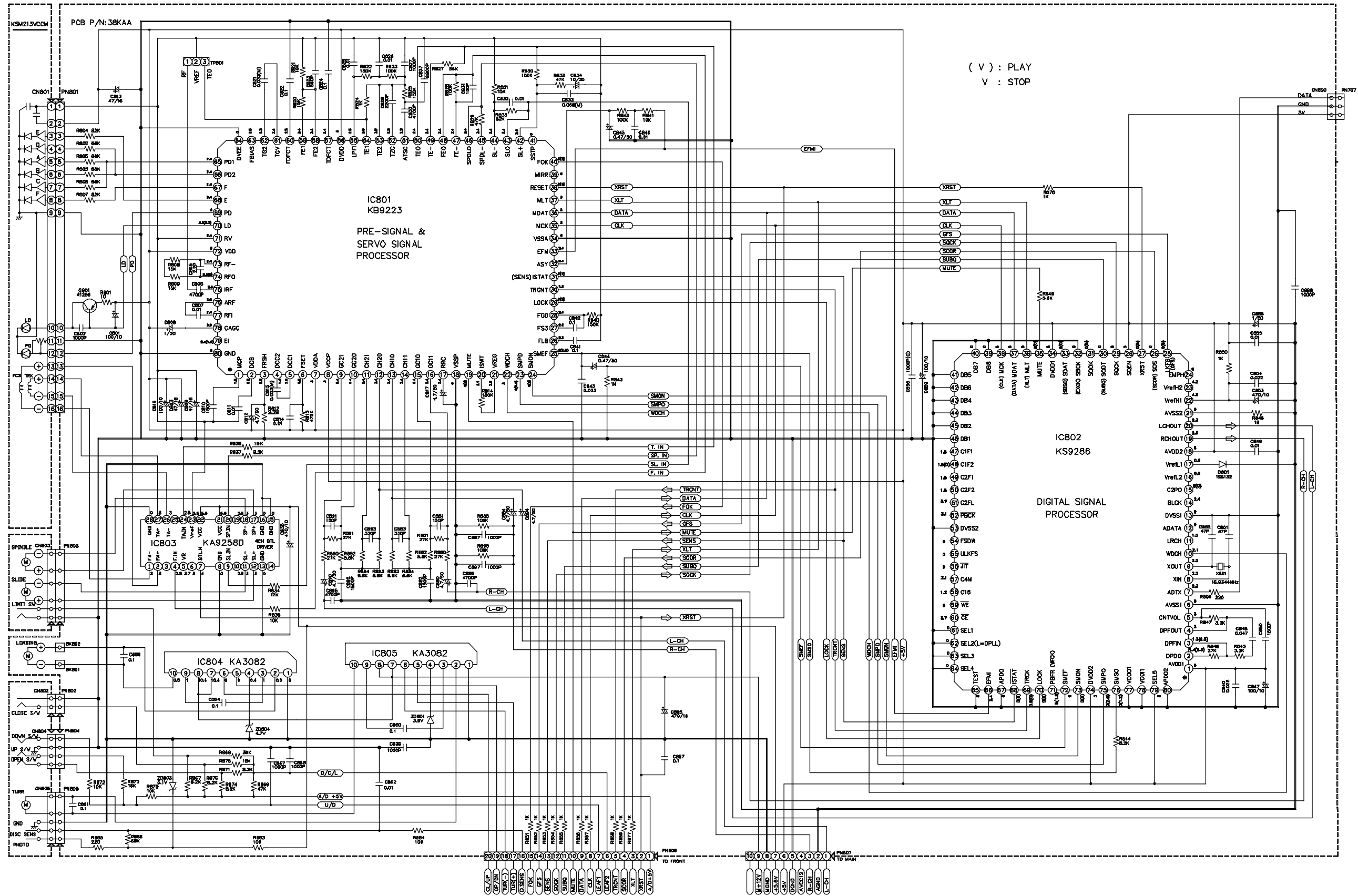
C101	C10	C277	H3	R142	K9
C102	E10	C278	I3	R144	D8
C103	E11	C279	N6	R145	C10
C104	G12	C280	J2	R146	G10
C105	B10	C281	J3	R147	G8
C106	B8	C292	K5	R148	I7
C107	K7	C293	A3	R149	H8
C108	H10	C294	A3	R150	B7
C109	I10	C295	G2	R152	L7
C110	K11	C298	A2	R153	O9
C112	K9	C794	F2	R156	I8
C113	J8	CF101	E12	R165	B7
C114	J8	CF102	G12	R166	B7
C115	J7	CF103	F12	R167	C6
C116	J7	CN202	M6	R168	B6
C117	J8	D105	P10	R181	L8
C118	I7	D106	E9	R182	L9
C119	I8	D107	D9	R191	O9
C120	I7	D108	P11	R192	K11
C121	I8	D109	P11	R201	B5
C122	H7	D150	O7	R202	C5
C123	H7	D151	O7	R203	O5
C124	H9	D212	E4	R204	C3
C126	G7	D481	O6	R205	D5
C127	F10	FB101	M7	R206	N3
C128	D8	FB102	M7	R207	N4
C129	I7	FB115	D11	R208	G2
C130	O9	FB117	B12	R209	G3
C131	M8	FB201	E6	R210	G3
C132	M8	FB202	E5	R211	G3
C133	O8	FB251	F6	R213	H4
C134	O8	FB252	F6	R213	H3
C135	P9	IC102	I9	R214	H2
C136	N7	IC103	N8	R215	H3
C137	C9	IC201	C3	R217	J4
C138	D8	IC202	I4	R219	J5
C139	G9	IC203	L3	R220	K4
C140	F8	JK101	A11	R221	I3
C142	H10	JK102	A7	R222	I3
C143	L101	L101	H11	R223	J3
C144	K10	L102	I8	R224	J3
C145	K10	L103	E11	R225	J3
C146	K11	L104	I7	R226	I2
C148	J11	L105	C9	R228	J4
C149	L106	L106	J11	R230	O4
C150	P11	L107	E9	R231	E4
C151	K7	L109	N7	R236	C2
C152	L7	L120	L8	R237	F2
C153	K8	L121	K9	R238	F2
C154	K8	L203	D2	R239	F2
C156	J7	OW101	D10	R240	J5
C157	H7	OW102	B10	R241	O3
C158	H6	OW103	B10	R242	M4
C159	I7	OW104	B10	R243	M2
C179	O8	OW105	B10	R244	M2
C185	B6	OW106	C9	R246	N2
C186	B6	OW108	F7	R247	N2
C187	L8	OW115	F2	R248	N4
C188	L8	PN201	B6	R248	N4
C190	D8	PN202	B5	R250	N4
C192	P11	Q101	E12	R251	B6
C195	B10	Q102	F11	R252	C5
C196	F8	Q103	L10	R253	D5
C197	D10	Q105	E7	R254	C3
C198	O11	Q106	F7	R255	D5
C201	B5	Q107	K7	R256	M4
C202	C5	Q108	L7	R257	M4
C204	D4	Q115	M10	R258	O5
C205	D4	Q201	J4	R259	G5
C206	E4	Q202	J2	R260	G5
C207	B3	Q203	J3	R261	G4
C208	A2	Q206	C2	R262	G5
C210	F2	Q207	F2	R263	H5
C211	F3	Q208	F2	R264	H5
C212	G3	Q209	N3	R265	H5
C213	G3	Q251	J5	R266	I5
C214	I3	Q252	J4	R267	I5
C215	H2	Q253	J3	R268	I5
C216	H3	Q254	I5	R269	J5
C218	I4	R101	D10	R270	K5
C220	J4	R102	D12	R271	I4
C221	H2	R103	E11	R272	I4
C225	J4	R104	E11	R273	J4
C226	J5	R105	F11	R274	J3
C227	E2	R106	F11	R275	J3
C230	L2	R107	F11	R280	G5
C231	E4	R108	G10	R281	H5
C233	D3	R109	J7	R282	H5
C234	D2	R110	J10	R283	G2
C235	E3	R111	F11	R284	G2
C236	E2	R112	I11	R285	G2
C237	E3	R113	J10	R286	H2
C238	E2	R114	J10	R287	H3
C239	C2	R115	C10	R288	O2
C240	G2	R116	K11	R289	O2
C241	K4	R117	J8	R290	K5
C242	J5	R118	J8	R292	E3
C251	C5	R119	O11	R293	E3
C252	C5	R120	L10	R294	E3
C254	D5	R121	H7	R295	M6
C255	D5	R122	I8	R296	M6
C256	D5	R125	N9	R297	M6
C257	C3	R126	N9	R298	M6
C258	A2	R127	N9	R299	M6
C260	G5	R128	N9	R300	M6
C261	F5	R129	O10	R301	P4
C262	G5	R130	N9	R302	P4
C263	G5	R131	B9	R303	P4
C264	G5	R132	O9	R304	P4
C265	H5	R133	O9	R305	P4
C266	I5	R134	O9	R306	P4
C268	I5	R135	D9	R307	P4
C270	J5	R136	K10	R308	P4
C272	I4	R137	L9	R309	P4
C275	H5	R138	D8	R310	P4
C276	G3	R141	K8	R311	P4



'01.04.30 SR3040AA  
TUNER/DAK  
FFH-976

- NOTES :
1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
  2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
  3. Schematic diagram for this model are subject to change for improvement without prior notice.

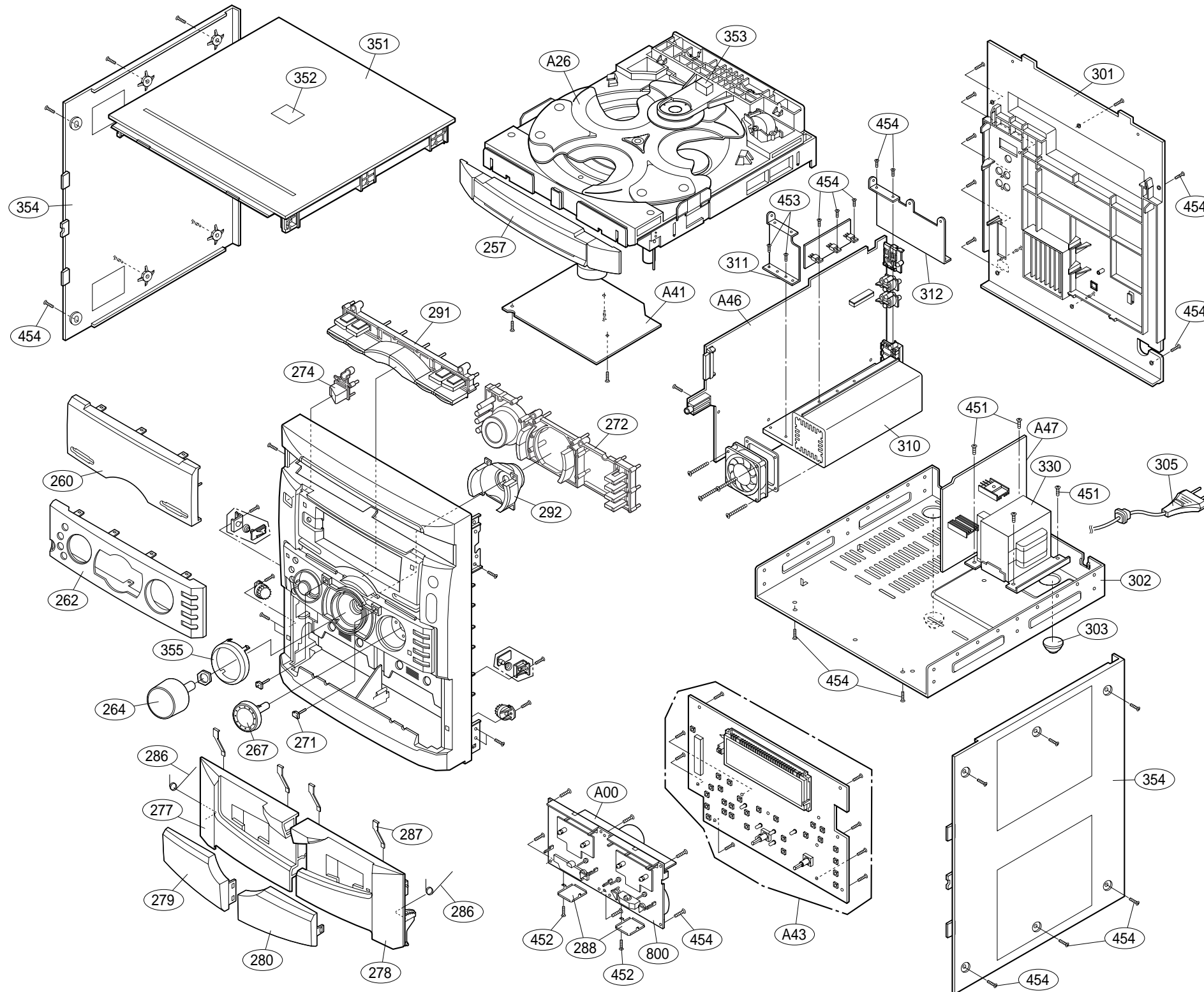
# • CDP SCHEMATIC DIAGRAM



# SECTION 3. EXPLODED VIEWS

## • CABINET AND MAIN FRAME SECTION

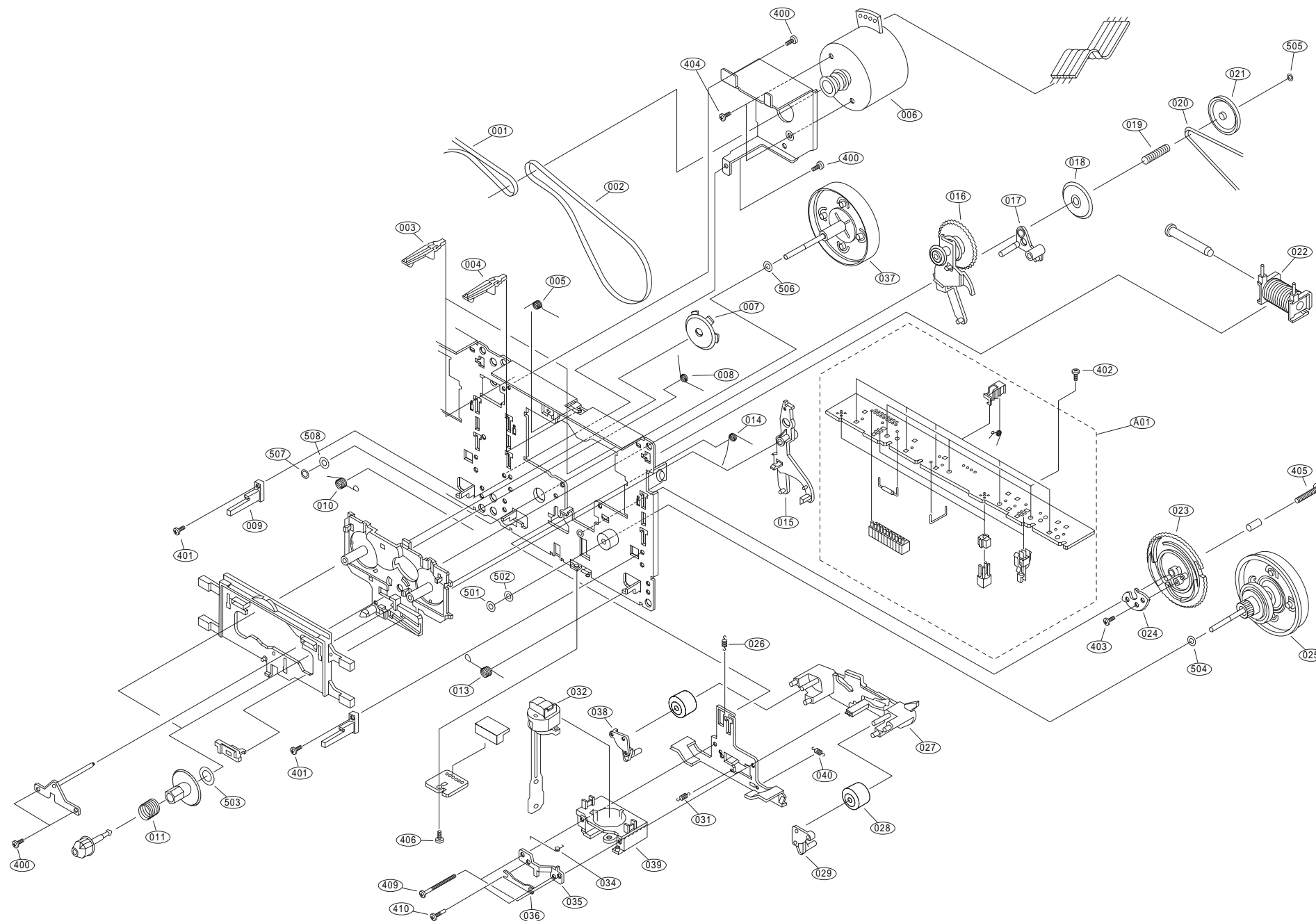
(NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.





• TAPE DECK MECHANISM: AUTO REVERSE DECK

NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.

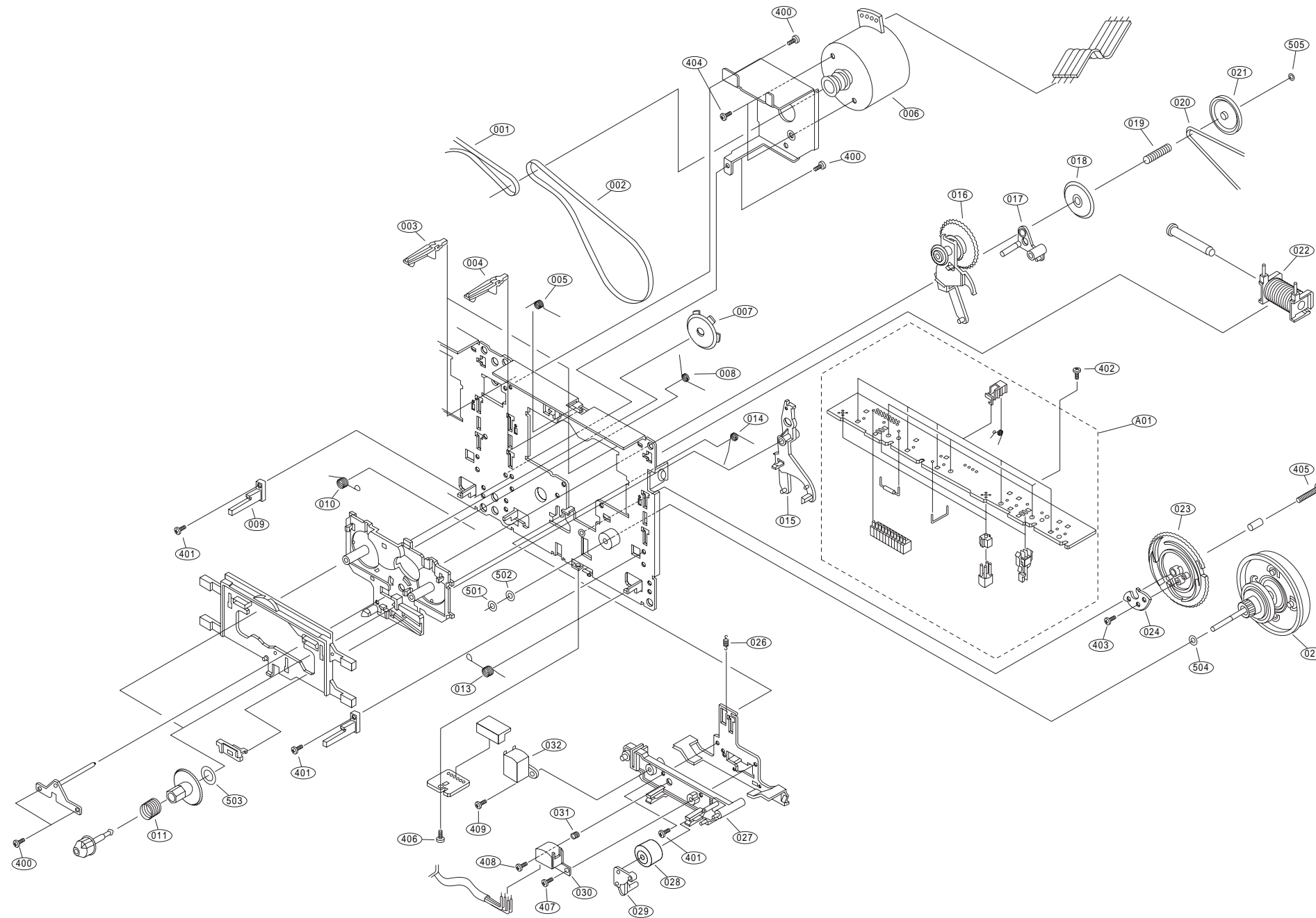


LOCA. NO	PART NO.	SPECIFICATION
A00	6730R-G007B	CDM-H1323 CD CHAN
A01	6768R-UP01A	50-093-4249 PCB AS
001	6768R-BP01B	02-084-4202 BELT/FELT
002	6768R-BP01A	02-084-4204 BELT/FELT
003	6768R-AP01D	50-239-4027 CWL44
004	6768R-AP01E	50-239-4026 ARM
005	6768R-SP01E	01-082-4654 SPRING
006	6768R-QP01A	50-093-4316 MOTOR
007	6768R-GP01A	50-093-4063 GEAR
008	6768R-SP01F	01-082-4598 SPRING
009	6768R-MP01C	50-219-4014 MOLD
010	6768R-SP01C	01-082-4652 SPRING
011	6768R-SP01A	01-081-4601 SPRING
013	6768R-SP01B	01-082-4651 SPRING
014	6768R-SP01G	01-082-4597 SPRING
015	6768R-AP01A	50-268-3016 ARM
016	6768R-GP01C	50-093-4069 GEAR
017	6768R-AP01C	50-239-4072 ARM
018	6768R-GP01D	50-222-4007 GEAR
019	6768R-SP01H	01-081-4657 SPRING
020	6768R-BP01C	02-083-4188 BELT/FELT
021	6768R-LP01A	50-223-4254 PULLEY
022	6768R-VP01A	50-093-4125 SOLENOID
023	6768R-GP01B	50-221-3009 GEAR
024	6768R-AP01B	50-139-4292 ARM
025	6768R-JP01B	50-093-3361 PULLEY
026	6768R-SP01D	01-080-4609 SPRING
027	6768R-DP01A	50-259-3342 LEVER
028	6768R-RP01A	22-027-41054 ROLLER
029	6768R-MP01A	50-219-4033 MOLD
031	6768R-SP01L	01-080-4649 SPRING
032	6768R-EP01A	50-093-4070 HEAD AY
033	6768R-JP01A	50-093-3360 PULLEY
034	6768R-SP01K	01-082-4650 SPRING
035	6768R-PP01A	50-119-4046 PRESS
036	6768R-PP01B	50-160-4108 PRESS
037	6768R-JP01C	50-093-3315 PULLEY
038	6768R-MP01D	50-219-4034 MOLD
040	6768R-SP01M	01-080-4607 SPRING
400	6768R-CP01A	GSE10A2003 SCREW
401	6768R-CP01B	GSE20A2005 SCREW
402	6768R-CP01C	GSE10A2004 SCREW
403	6768R-CP01D	GSL10A1704 SCREW
404	6768R-CP01E	GSP10A2603 SCREW
405	6768R-CP01F	GSP11A2012 SCREW
406	6768R-CP01G	GSE20A2004 SCREW
409	6768R-CP01L	GSD10A2018 SCREW
410	6768R-CP01M	03-300-4056 SCREW
501	6768R-WP01A	GWM19S035035 WASHER
502	6768R-WP01B	GWM17S050035S WASHER
503	6768R-WP01C	GWM40X075010 WASHER
504	6768R-WP01D	GWP21X045020 WASHER
505	6768R-WP01E	GWP12X030040S WASHER
506	6768R-WP01H	GWP23X040020 WASHER
507	6768R-WP01F	GWN21X040040 WASHER
508	6768R-WP01G	GWM19X055035S WASHER



• TAPE DECK MECHANISM: AUTO STOP DECK(OPTIONAL)

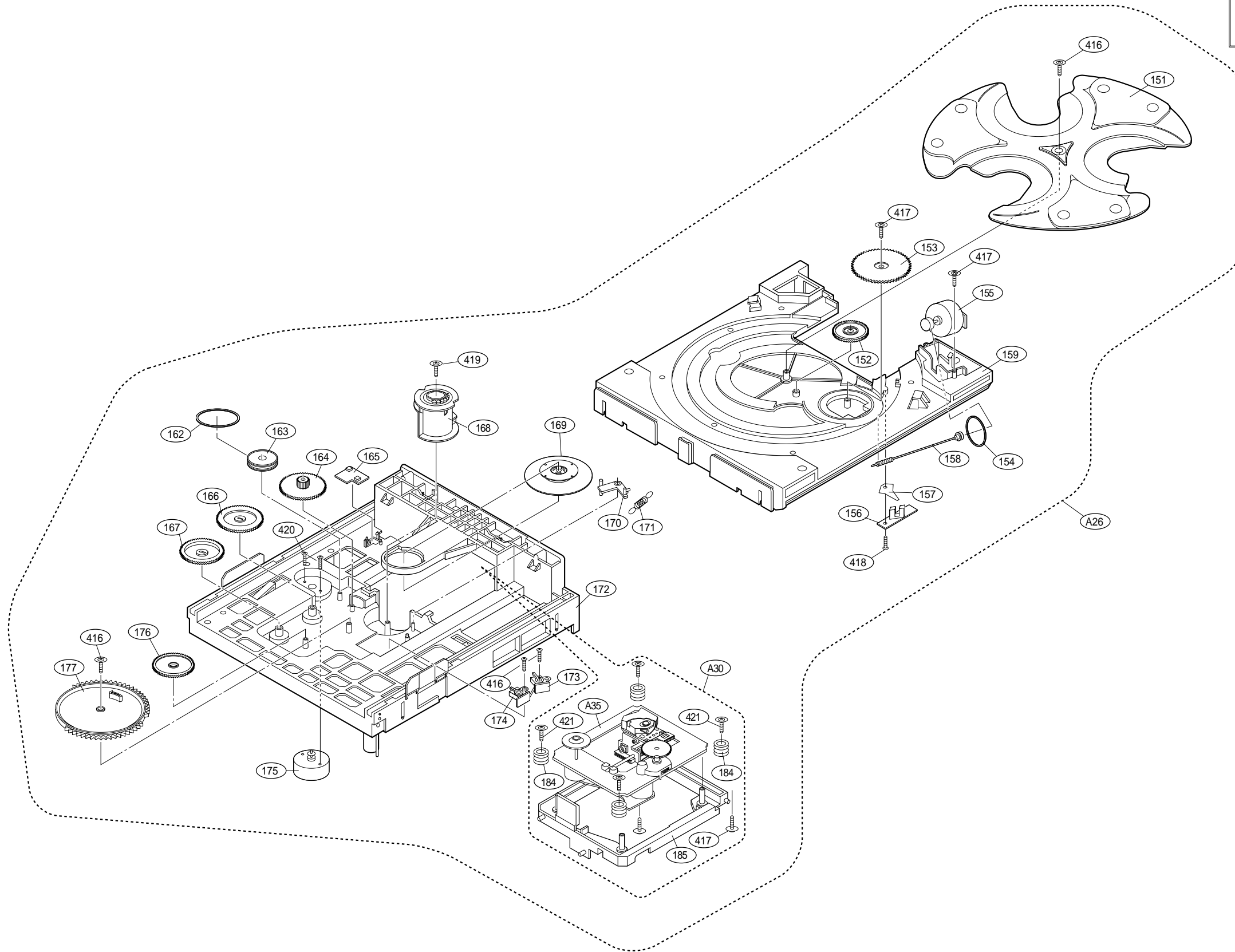
NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.



LOCA. NO	PART NO.	SPECIFICATION
A00	6730R-G007A	CWL44FF25 TOKYO PIGEON L-DOUBL
A01	6768R-UP01A	50-093-4249 PIGEON UNIT PCB AS
001	6768R-BP01B	02-084-4202 PIGEON BELT / FELT C
002	6768R-BP01A	02-084-4204 PIGEON BELT / FELT C
003	6768R-AP01D	50-239-4027 PIGEON ARM CWL44
004	6768R-AP01E	50-239-4026 PIGEON ARM CWL44
005	6768R-SP01E	01-082-4599 PIGEON SPRING CWL4
006	6768R-QP01A	50-093-4316 PIGEON MOTOR(ASSY)
007	6768R-GP01A	50-093-4063 PIGEON GEAR CWL44
008	6768R-SP01F	01-082-4598 PIGEON SPRING CWL4
009	6768R-MP01C	50-219-4014 PIGEON MOLD CWL44
010	6768R-SP01C	01-082-4652 PIGEON SPRING CWL4
011	6768R-SP01A	01-081-4601 PIGEON SPRING CWL4
013	6768R-SP01B	01-082-4651 PIGEON SPRING CWL4
014	6768R-SP01G	01-082-4597 PIGEON SPRING CWL4
015	6768R-AP01A	50-268-3016 PIGEON ARM CWL44
016	6768R-GP01C	50-093-4069 PIGEON GEAR CWL44
017	6768R-AP01C	50-239-4072 PIGEON ARM CWL44
018	6768R-GP01D	50-222-4007 PIGEON GEAR CWL44
019	6768R-SP01H	01-081-4657 PIGEON SPRING CWL4
020	6768R-BP01C	02-083-4188 PIGEON BELT / FELT C
021	6768R-LP01A	50-223-4254 PIGEON PULLEY / FLYW
022	6768R-VP01A	50-093-4125 PIGEON SOLENOID CW
023	6768R-GP01B	50-221-3009 PIGEON GEAR CWL44
024	6768R-AP01B	50-139-4292 PIGEON ARM CWL44
025	6768R-JP01B	50-093-3361 PIGEON PULLEY / FLYW
026	6768R-SP01D	01-080-4609 PIGEON SPRING CWL4
027	6768R-MP01B	50-093-3036 PIGEON MOLD CWL44
028	6768R-RP01A	22-027-41054 PIGEON ROLLER CWL
029	6768R-MP01A	50-219-4033 PIGEON MOLD CWL44
030	6768R-HP01A	TC881CB067B PIGEON HEAD CWL44
031	6768R-SP01J	01-081-4605 PIGEON SPRING CWL4
032	6768R-HP01B	TC231F PIGEON HEAD CWL44
033	6768R-JP01A	50-093-3360 PIGEON PULLEY / FLYW
400	6768R-CP01A	GSE10A2003 PIGEON SCREW CWL44
401	6768R-CP01B	GSE20A2005 PIGEON SCREW CWL44
402	6768R-CP01C	GSE10A2004 PIGEON SCREW CWL44
403	6768R-CP01D	GSL10A1704 PIGEON SCREW CWL44
404	6768R-CP01E	GSP10A2603 PIGEON SCREW CWL44
405	6768R-CP01F	GSP11A2012 PIGEON SCREW CWL44
406	6768R-CP01G	GSE20A2004 PIGEON SCREW CWL44
407	6768R-CP01H	GSL20A2005 PIGEON SCREW CWL44
408	6768R-CP01J	03-300-4127 PIGEON SCREW CWL44
409	6768R-CP01K	GSL20A2008 PIGEON SCREW CWL44
501	6768R-WP01A	GWM19S035035 PIGEON WASHER CWL
502	6768R-WP01B	GWM17S050035S PIGEON WASHER CW
503	6768R-WP01C	GWM40X075010 PIGEON WASHER CWL
504	6768R-WP01D	GWP21X045020 PIGEON WASHER CWL
505	6768R-WP01E	GWP12X030040S PIGEON WASHER CW

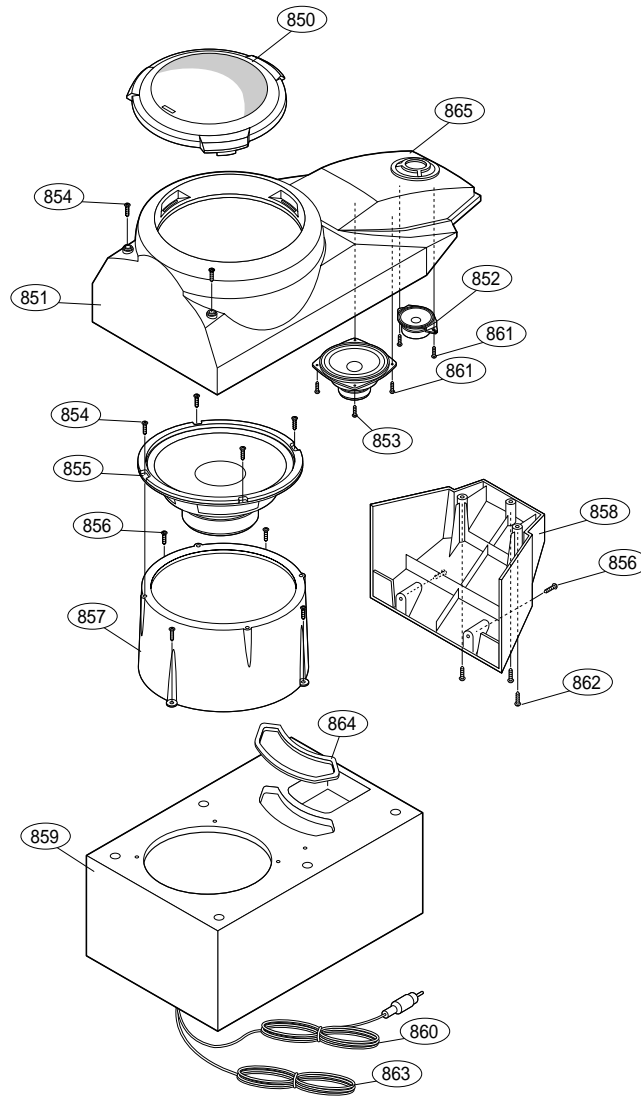
• CD MECHANISM

NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.



# SECTION 4. SPEAKER SECTION

## MODEL: FE-976E



(Region Code) MODEL: FE-976E

A : LGEMS , B: LGEPS , C: LGEPR , D : LGEDG , E : LGECEB

F : LGEMK , G : LGEIS , H : LGEPL

RUN DATE :03.MAY,2001

NSP : NON SVC PART

LOCA. NO.	PART NO.	A	B	C	D	E	F	G	H	DESCRIPTION	SPECIFICATION	REMARKS
850	3701RM0008A	0	0	0	0	0	0	0	0	NET ASSY	ASSY FE-976E STANDARD NET META	NSP
851	3720RMF001A	0	0	0	0	0	0	0	0	PANEL	FRONT(FE-868E)	NSP
852	6400RMEA01A	0	0	0	0	0	0	0	0	SPEAKER,TWEETER	05N45EHC1019 FE-976E EAW 6OHM	
853	6400RME02A	0	0	0	0	0	0	0	0	SPEAKER,GENERAL	10K60EHC1017 FE-976E EAW 6OHM	
854	353M050C	0	0	0	0	0	0	0	0	SCREW	BH 3.5X16 FBK	
855	6400RMEJ01A	0	0	0	0	0	0	0	0	SPEAKER,GENERAL	16R90EHC1018 FE-976E EAW 6OHM	
856	353M050D	0	0	0	0	0	0	0	0	SCREW	WOOD DRC 3.5X 12 BK	
857	4350RM0001A	0	0	0	0	0	0	0	0	RING	WOOFER(FE-868E)	NSP
858	3110RM0001A	0	0	0	0	0	0	0	0	CASE	TOP(FE-969E/868E)	NSP
859	3091RMV016A	0	0	0	0	0	0	0	0	CABINET ASSY	FE-976E PILOT PB 12T	NSP
859	3091RMV016B				0					CABINET ASSY	FE-976E LGEDG 12T E-1	NSP
860	6871RU2012C	0	0	0	0	0	0	0	0	PWB(PCB) ASSY,SUBSET(AUDIO)	(FE-969VE)SPK CORD AY,YEL+BK,	NSP
861	353M025G	0	0	0	0	0	0	0	0	SCREW	TAPTITE, 3X10 FZMY"	
862	353M025K	0	0	0	0	0	0	0	0	SCREW	TAPTITE, 3X12 FZMY"	
863	6871RU2012B	0	0	0	0	0	0	0	0	PWB(PCB) ASSY,SUBSET(AUDIO)	(FE-969E)SUPER WF SPK CORD AY,	NSP
864	4766SMN024B	0	0	0	0	0	0	0	0	FELT	DUCT(FE-868E/969E) BLACK	NSP
865	3530RMM001D	0	0	0	0	0	0	0	0	GRILLE	METAL(FE-976E) NOT BADGE HOLE	NSP