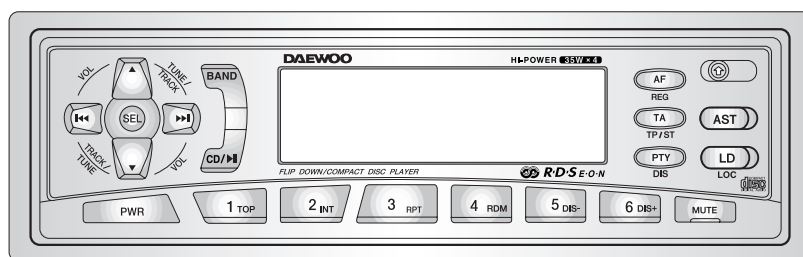
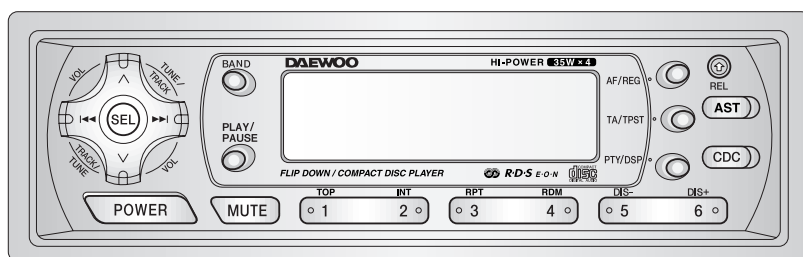


S/M No:AKD0275EF0

Service Manual

Car Audio Basic, RDS

MODEL : AKD-0275 Series
AKD-0285 Series



- 4-Channel High Power (35W x 4Ch)
- Electronic Tuning
- Electronic Volume/Bass/Treble/Balance/Fader Controls
- Auto Memory/Preset Scan
- Repeat/Random/Intro Scan
- Local/DX Switch
- Loudness & Mute Controls
- Flip-Down Detachable Face for Anti-Theft
- ISO DIN Chassis for Easy Installation

DAEWOO ELECTRONICS CO., LTD

<http://svc.dwe.co.kr>

Jan. 2000

TABLE OF CONTENTS

1. PRODUCT SPECIFICATIONS	1
2. LINE DRAWING	2
3. ADJUSTMENTS	5
4. SCHEMATIC DIAGRAM	9
5. PARTS LOCATION ON P.C. BOARD	12
6. OVERALL EXPLODED VIEW & PARTS LIST	19
7. DECK MECHANISM EXPLODED VIEW & PARTS LIST	21
8. PARTS LIST	25
9. FUNCTION OF MICOM IC	28
10. IC BLOCK DIAGRAM	33
11. LIQUID CRYSTAL DISPLAY	38
12. OUTPUT CONNECTION DESCRIPTIONS	40
13. HOW TO INSTALL	41

1. PRODUCT SPECIFICATIONS

1-1. TECHNICAL SPECIFICATION

■ AUDIO SECTION

Maximum output power	: 35watts per channel into 4 ohms.
Load impedance	: 4 ohms
Total harmonic distortion	: Less than 10% at 12 watts
Frequency response	: 100Hz(± 3 dB), 10kHz(-5 ± 3 dB)

■ TUNER SECTION

(FM) Tuning range	: 87.5 to 108MHz 87.5 to 107.9 at U.S.A
Usable Sensitivity(MONO)	: 10dBu(4uV/75ohms)
Stereo Separation	: 30dB
Channel Step	: 200KHz
Signal to noise ratio (at 60dBu)	: More than 50dB
(MW) Tuning range	: 522 to 1620kHz at Europe 530 to 1710kHz at U.S.A
Usable Sensitivity	: 28dBu
(LW) Tuning range	: 144 to 288kHz
Usable Sensitivity	: 40dBu

■ CD SECTION

DISC	: Compact disc(12cm standard disc)
Revolution	: 1.2m/S~1.4m/S(500rpm~200rpm)
Error correction system	: CIRC
Sampling	: 44.1kHz
Quantization bits	: 16bit LINEAR
Frequency response	: 20Hz~20kHz ± 3 dB
Total harmonic distortion	: Less than 0.15% at 2watts
Dynamic Range	: 85dB
S/N ratio	: 70dB
Channel separation	: 60dB

1-2. GENERAL SPECIFICATION

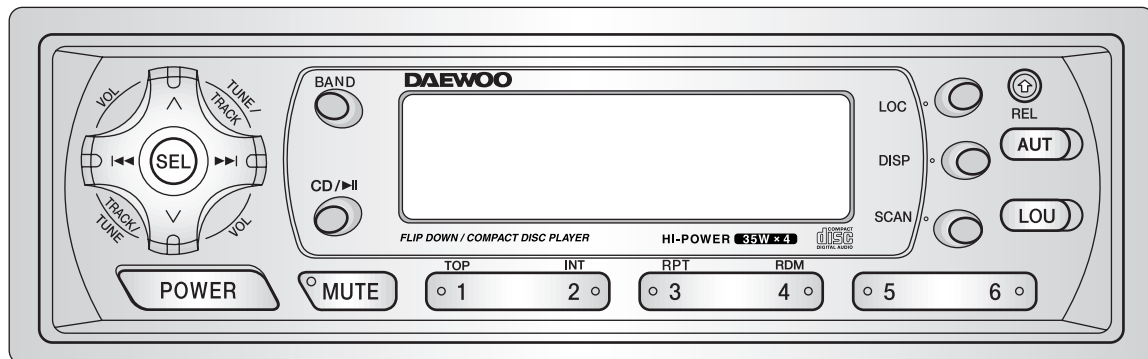
Power requirements	: DC 12.0V / Rated : 14.4V (Usable : 10.8 ~15.6V) Negative ground
Current consumption	: 10A Maximum
Dimension (W x H x D)	: Body 178 x 50 x 165 mm Escutcheon 188 x 58 x 15 mm
Weight (Net)	: 2.7 kg

Design and specifications are subject to change for improvements without notice.

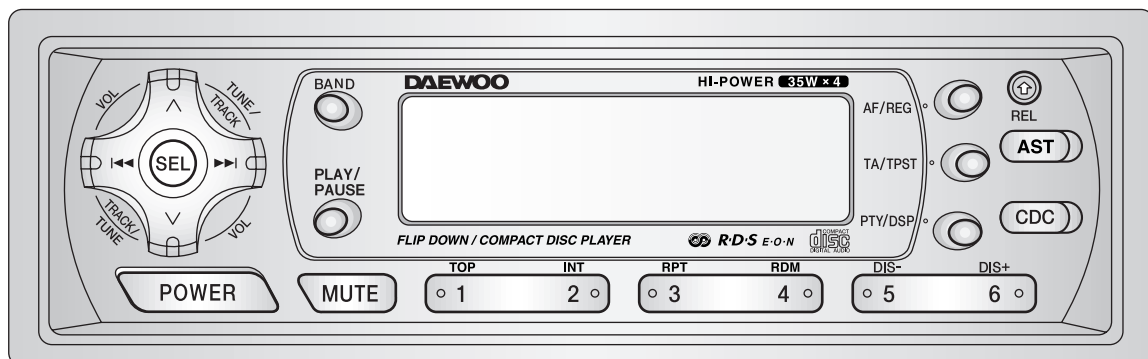
2. LINE DRAWING

2-1. AKD-0275 FRONT SIDE

WITHOUT RDS FUNCTION : BASIC

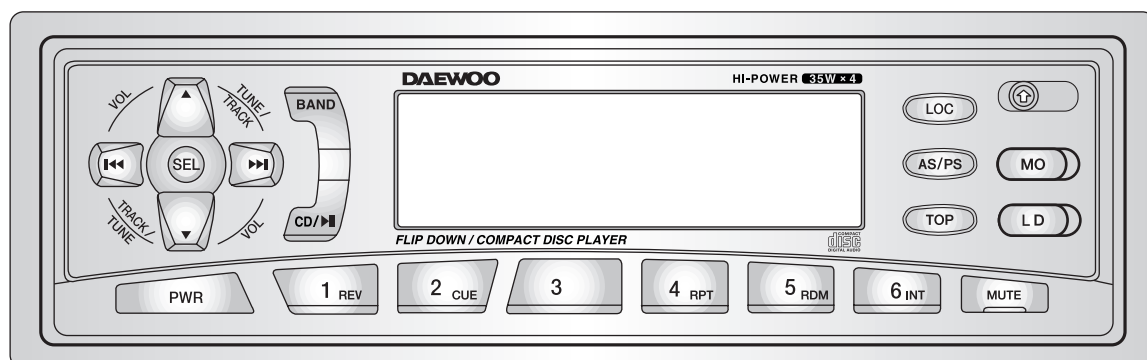


WITH RDS FUNCTION : RDS

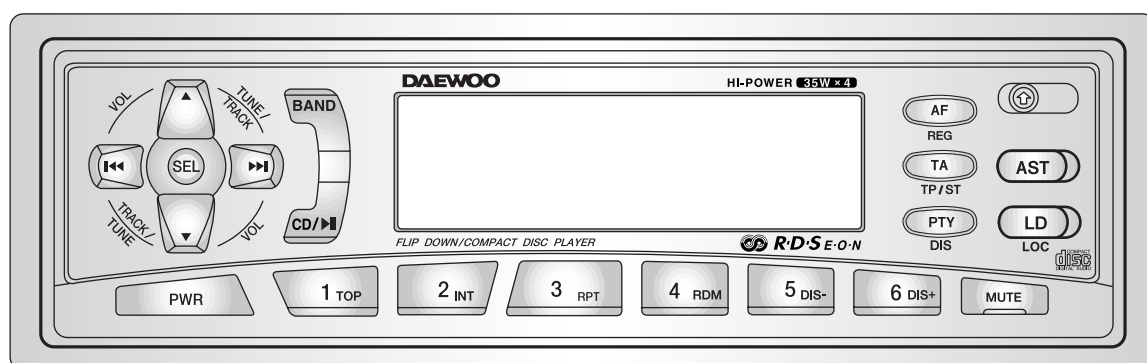


2-2. AKD-0285 FRONT SIDE

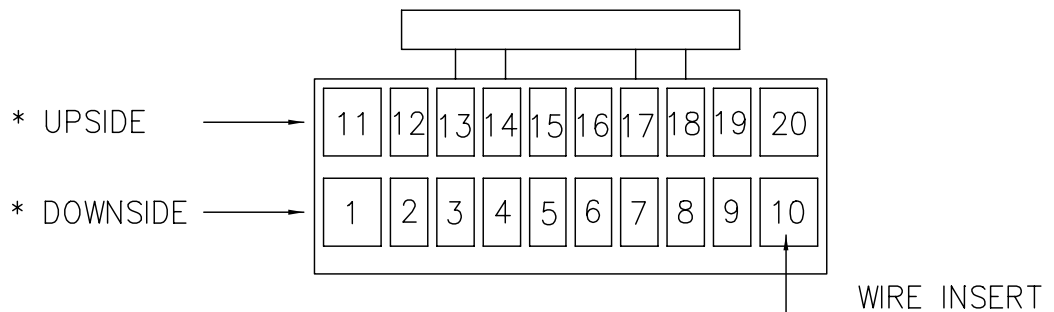
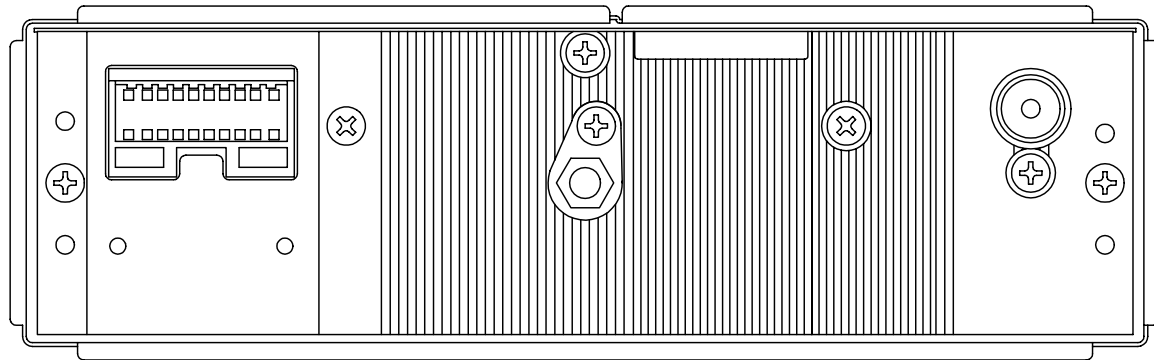
WITHOUT RDS FUNCTION : BASIC



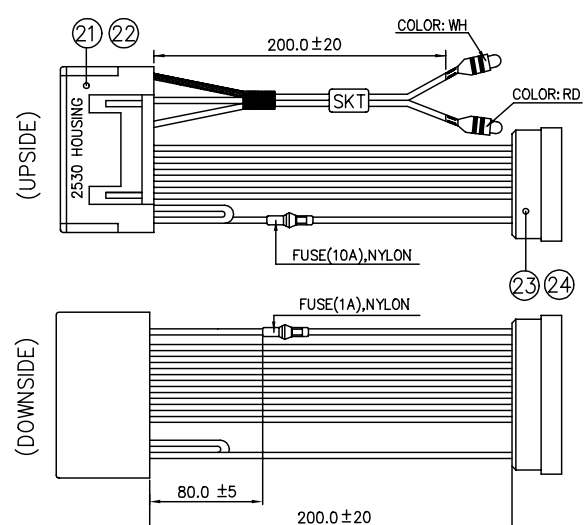
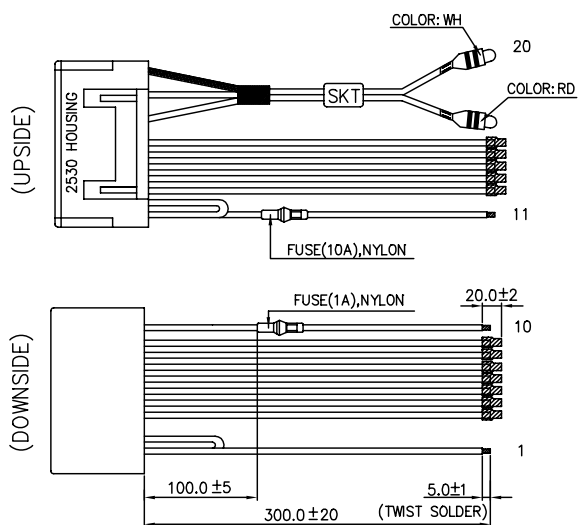
WITH RDS FUNCTION : RDS



2-3. AKD-0275/AKD-0285 REAR SIDE

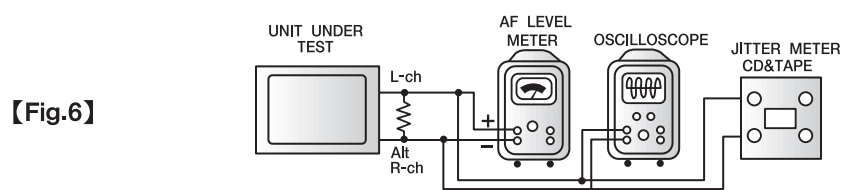
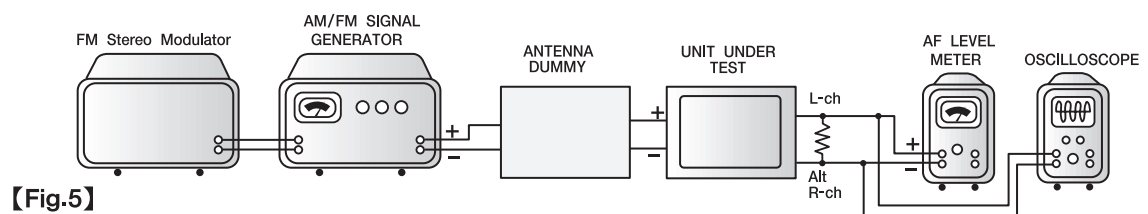
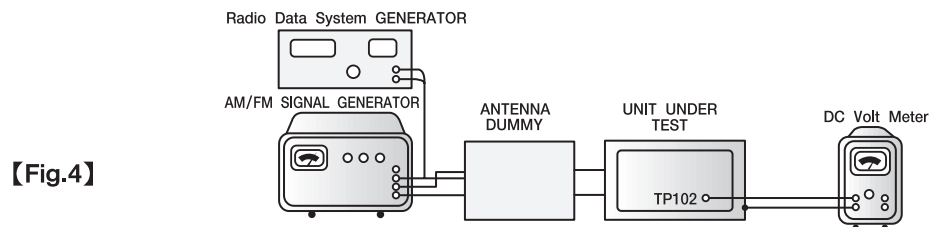
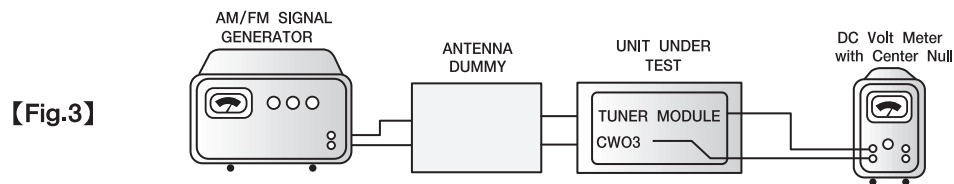
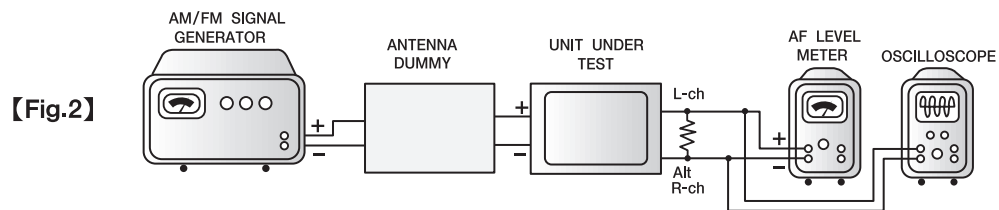
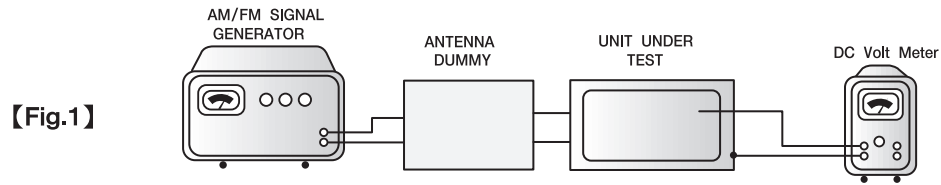


CONNECTOR ASS'Y



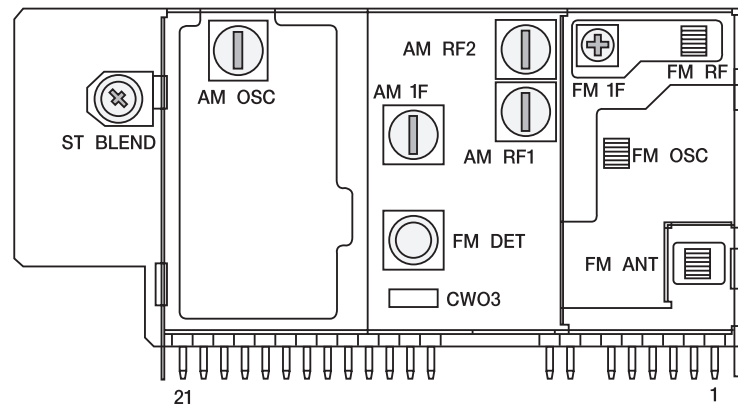
3. ADJUSTMENTS

3-1. CONNECTIONS EQUIPMENTS

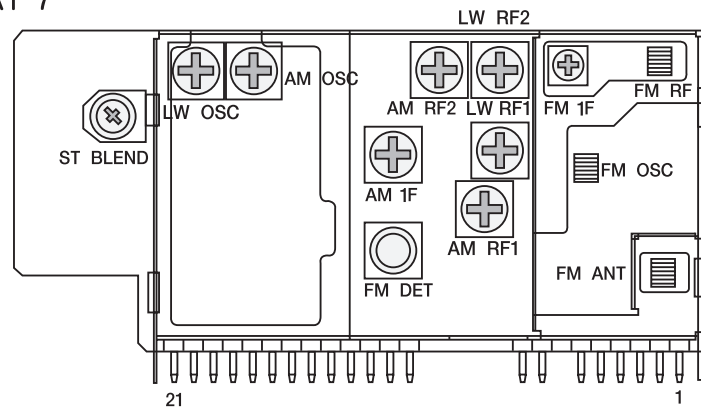


3-2. ADJUSTMENT LOCATIONS IN TUNER MODULES

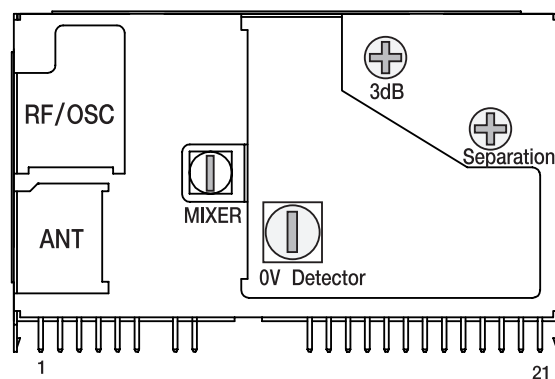
■ CAT-6



■ CAT-7



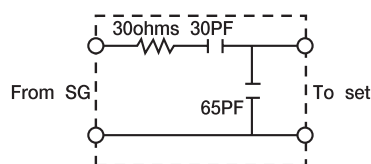
■ KCC-515V



【 Fig.8 】

3-3. AM (MW/LW) ADJUSTMENT

1. Dummy Antenna Circuit



2. Location of Adjustment Points

Refer to Adjustment Location Page

3. Control Setting

Power Switch	ON	Balance/Fader Control	Mech. Center
Band Switch	AM	Treble/Bass Control	Mech. Center
Other	OFF		

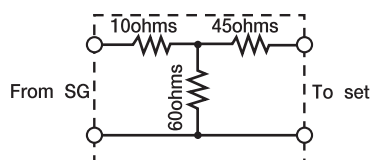
4. Adjustment Procedure

STEP	DESCRIPTION	CONNECTION	ANTENNA SIGNAL	DIAL CONTROL	ADJUSTMENT
1	Band Covering	Figure 1	522KHz 60dBu Mod 1000Hz 30%	522KHz	Adjust AM OSC for 1.2-1.35V(VT) Fig.8
2	RF-Tracking	Figure 2	603KHz 30dBu Mod 1000Hz 30%	603KHz	Adjust AM RF1 and AM RF2 for maximum output Fig.8
3	RF-Tracking	Figure 2	1404KHz 30dBu Mod 1000Hz 30%	1404KHz	Adjust AM RF1 and AM RF2 for maximum output Fig.8
4	LW Band Covering	Figure 1	144KHz 60dBu Mod 1000Hz 30%	144KHz	Adjust LW OSC for 1.2-1.35V(VT) Fig.8
5	LW-Tracking	Figure 2	220KHz 60dBu Mod 1000Hz 30%	220KHz	Adjust LW RF1 and LW RF2 for maximum output Fig.8

NOTE: When it is U.S.A band instead of 522, 603, 999, 1404kHz is 530, 600, 1000, 1400kHz

3-4. FM ADJUSTMENT

1. Dummy Antenna Circuit



2. Location of Adjustment Points

Refer to Adjustment Location Page

3. Control Setting

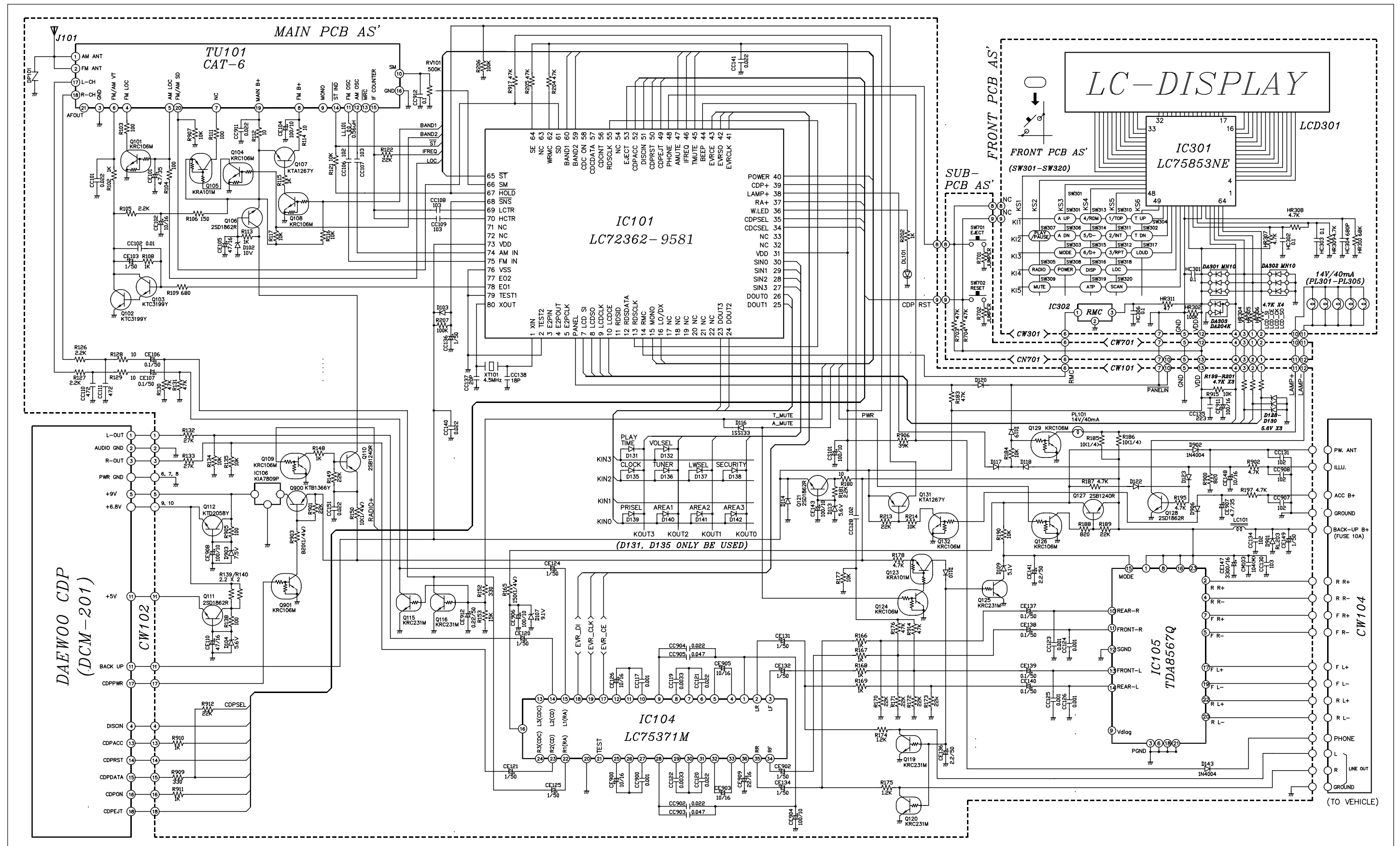
Power Switch	ON	Balance/Fader Control	Mech. Center
Band Switch	FM	Treble/Bass Control	Mech. Center
Other	OFF		

4. Adjustment Procedure

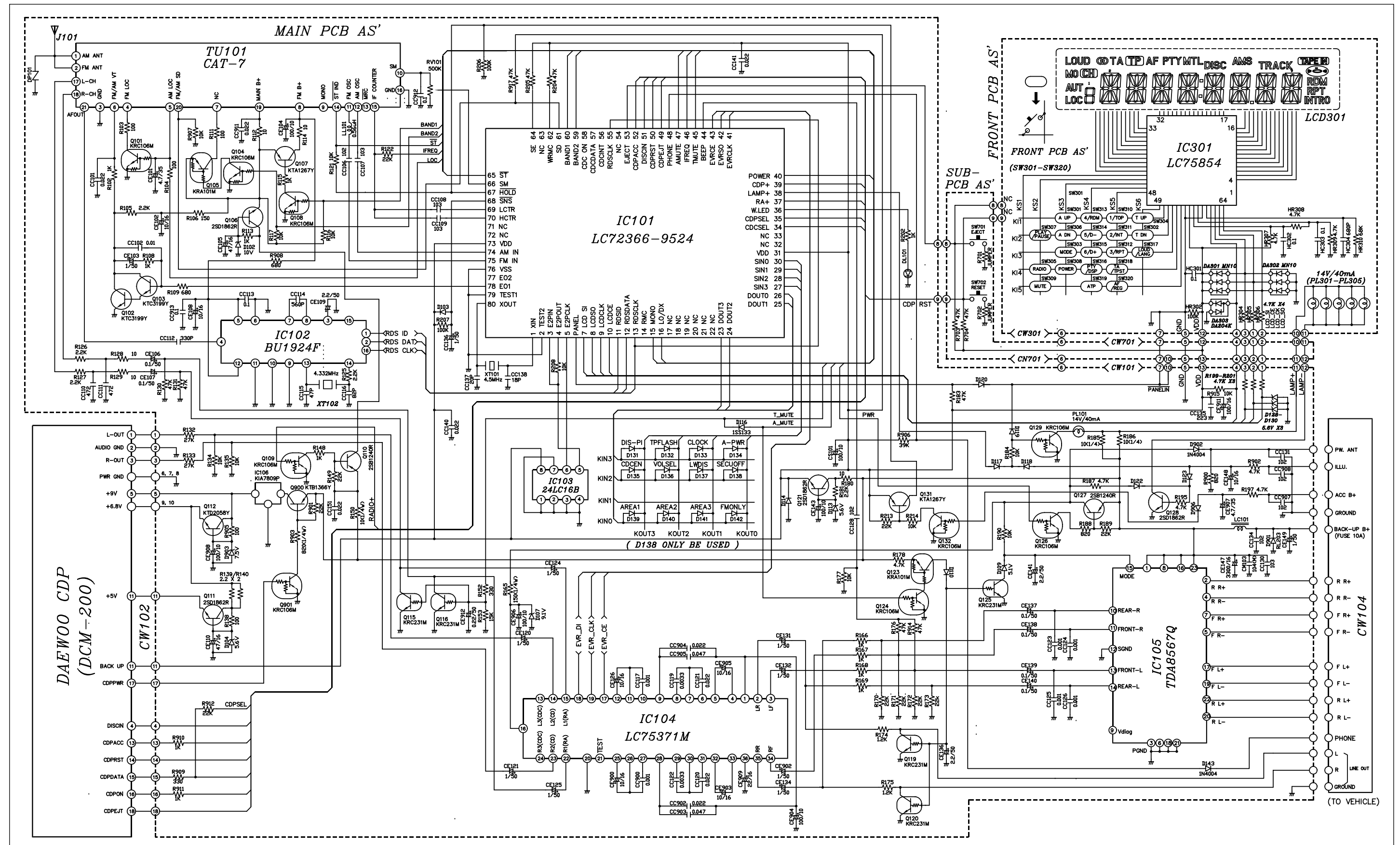
STEP	DESCRIPTION	CONNECTION	ANTENNA SIGNAL	DIAL CONTROL	ADJUSTMENT
1	IF (Zero Volt)	Figure 3	98.1MHz 60dBuV No Modulation	98.1MHz	Adjust FM DET for $0V \pm 0.03V$ Fig.8
4	RDS Receiving estimation level	Figure 4	98.1MHz 45dBuV Mod. 1kHz 30% Mono	98.1MHz	Adjust RV 101 Tuner PC Board for $2.7V=20mV$ at TP102(IC401 pin 66)
5	Stereo Separation	Figure 5	98.1MHz 60dBuV Mod. 1kHz 30% Stereo Left at Right ch.	98.1MHz	Adjust MPX SEP Fig.8 for maximum separation Left and Right ch.
6	SNC	Figure 5	98.1MHz 35dBuV Mod. 1kHz 30% Stereo Left at Right ch.	98.1MHz	Adjust Stereo Blend Fig.8 1dB separation between Left and Right ch.

4. SCHEMATIC DIAGRAM

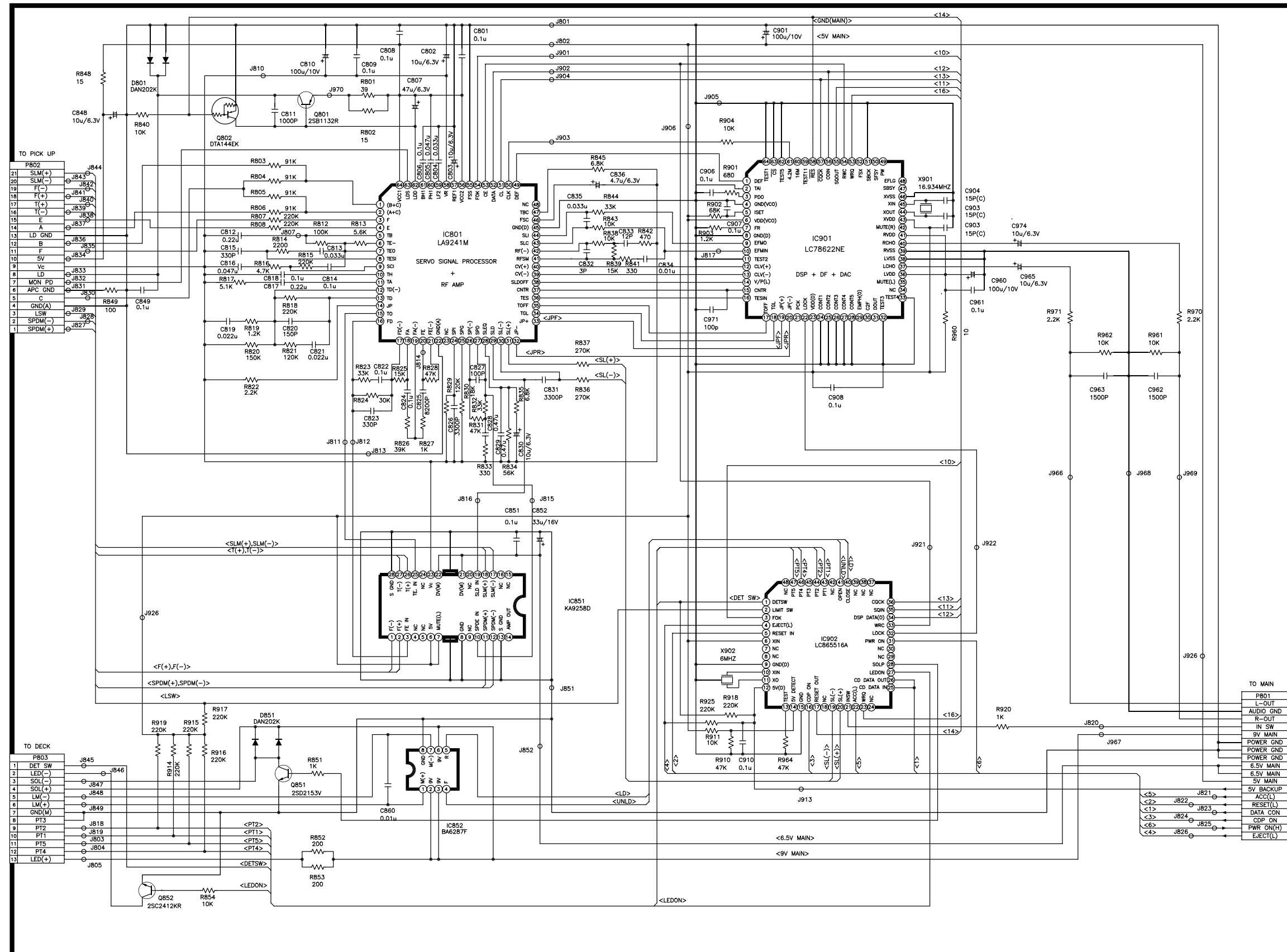
4-1. BASIC Series AKD-0275/0285



4-2. RDS Series AKD-0275/0285



4-3. CDP Circuit for AKD-0275/0285 (DCM-200/201)



5. PARTS LOCATION ON P.C. BOARD

5-1. PCB MAIN : AKD-0275/0285

PARTS SIDE

PARTS LOCATION ON P.C. BOARD

BOTTOM SIDE

PARTS LOCATION ON P.C. BOARD

5-2. PCB FRONT

■ AKD-0275 BASIC

PARTS SIDE

BOTTOM SIDE

PARTS LOCATION ON P.C. BOARD

■ AKD-0275 RDS

PARTS SIDE

BOTTOM SIDE

PARTS LOCATION ON P.C. BOARD

■ AKD-0285 BASIC

PARTS SIDE

BOTTOM SIDE

PARTS LOCATION ON P.C. BOARD

■ AKD-0285 RDS

PARTS SIDE

BOTTOM SIDE

PARTS LOCATION ON P.C. BOARD

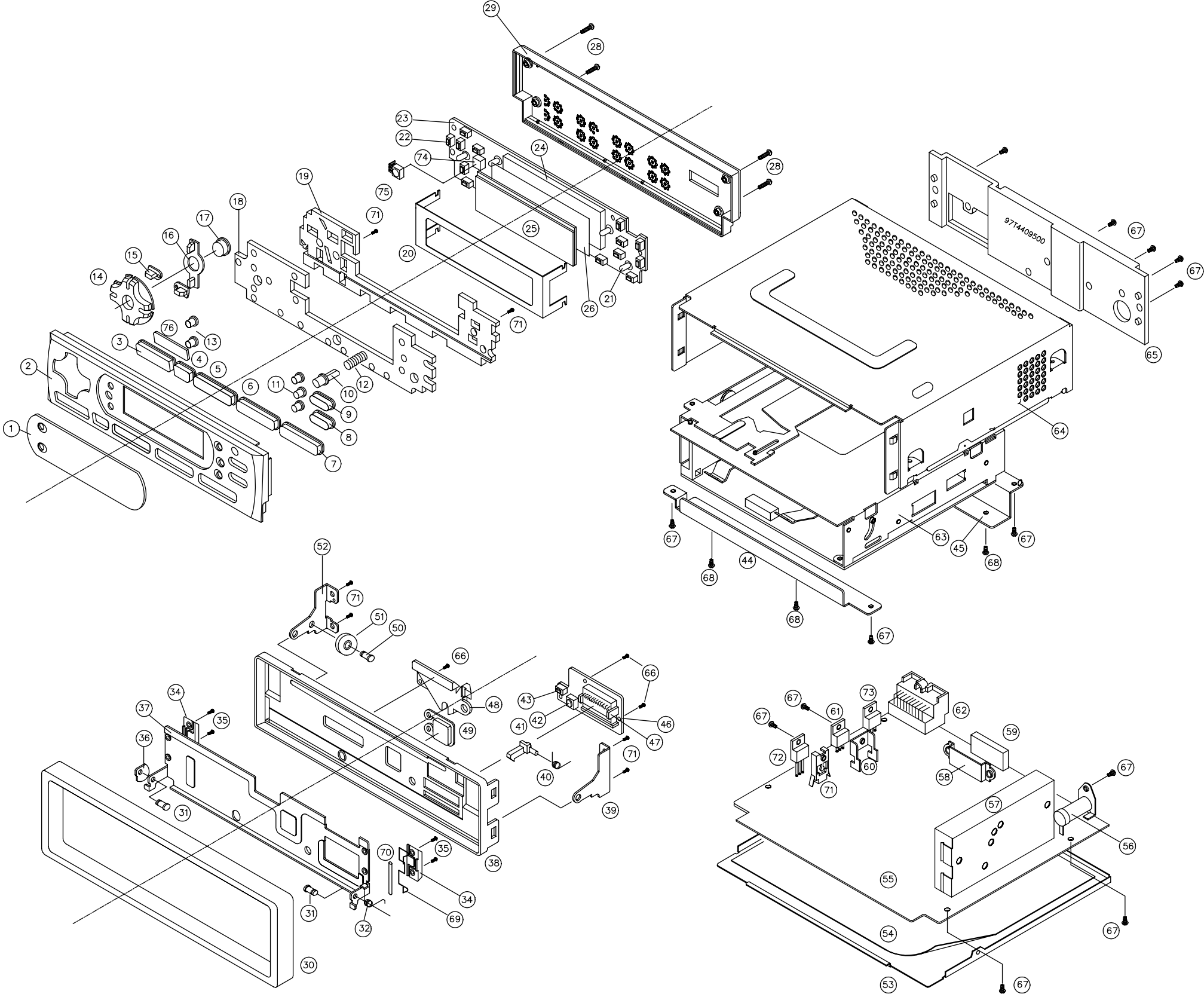
5-3. PCB Sub

PARTS SIDE

BOTTOM SIDE

6. OVERALL EXPLODED VIEW & PARTS LIST

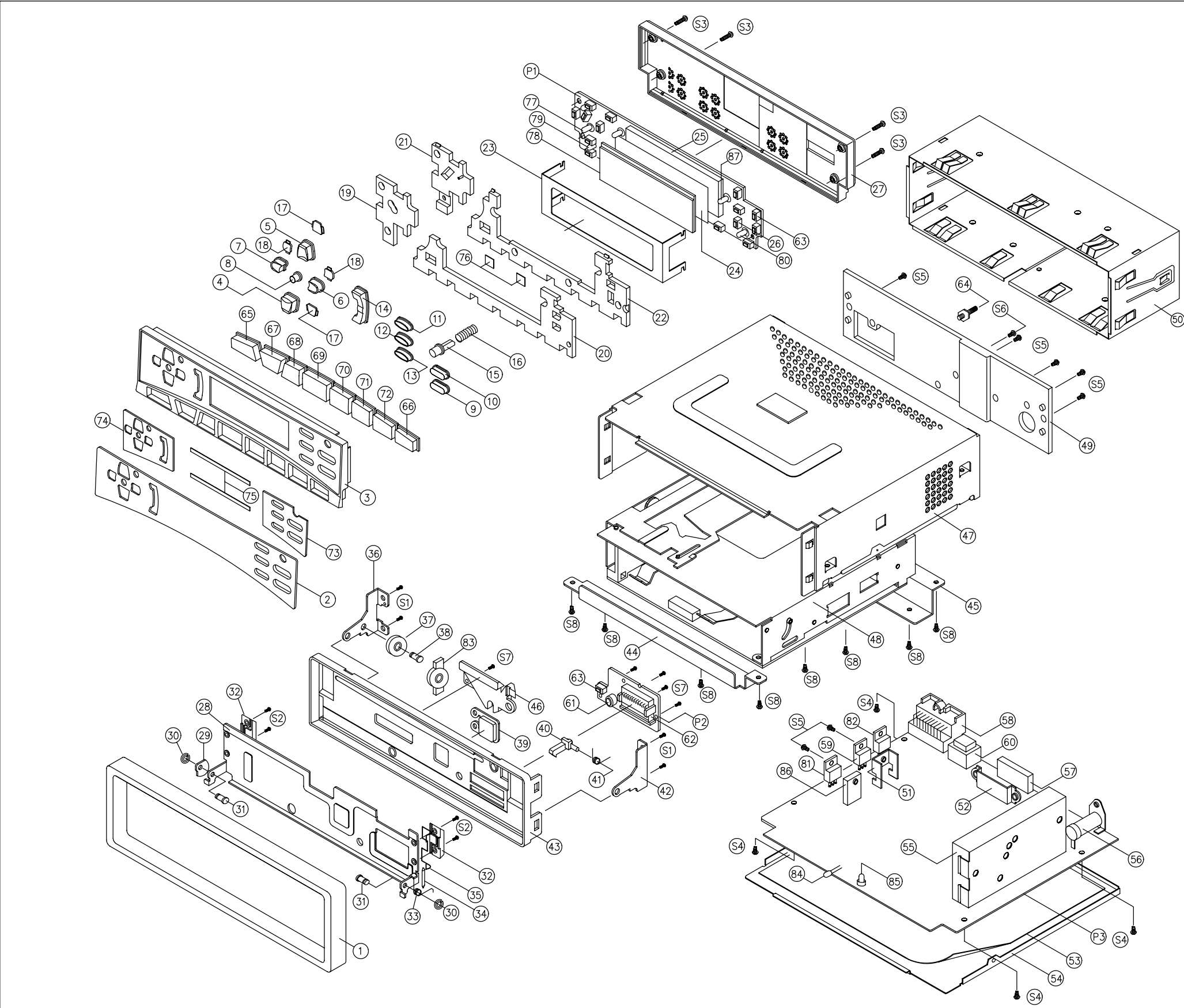
6-1. AKD-0275 BASIC & RDS



80			
79			
78			
77			
76	97T3104900	BOLT HEX	1 SM20C M5*(3+2+10) MFZN
75	1RPM6938V4	IC CHIP REMOCON	1 RPM-6938-V4
74	97T4227100	CUSHION RMC	1 EVA T3.5
73	TK TB1366Y	TR	1 KTB 1366Y
72	TK TD2058Y	TR	1 KTD 2058Y
71	7173200612	SCREW	4 TT2 BIN 2*6MFZN BK
70	97T3603200	SHAFT HOOK	2 BsBM(BLACK)
69	97T3013700	SPRING LOCK	2 SUS304 D0.8
68	7173300811	SCREW	1 TT2 BIN 3*8 MFZN
67	7173300811	SCREW	5 TT2 BIN 3*8 MFZN
66	7173200512	SCREW	5 TT2 BIN 2*5 MFZN BK
65	97T4409500	HEAT SINK	1 AL6063S-T5
64	97T0628100	CHASSIS MAIN	1 SECC t0.8
63	97T6008900	DECK MECHA	1 DCM-200
62	97T6220900	CONNECTOR	1 SKWB-20-S/P-T.T
61	KIA7809P-	IC REGULATOR	1 KIA7809P TO-220AB
60	97T2442200	BRKT IC REG	1 SECC T1.0
59	ITDA8567Q-	IC AUDIO POWER	1 TDA8567Q
58	97T2441800	BRKT IC POWER	1 SECC t1.0
57	PNFQMBJS01	FMICHP AS	1 CAT-6
56	97T6366900	ANTENNA JACK	1 ANT J-020-30
55	97T65971MA	PCB MAIN	1 190*330*T1.6/2
54	97T0927000	INSULATION	1 PE t0.25
53	97T0433900	COVER BOTTOM	1 SECC T0.6
52	97T2441900	BRKT PLATE A	1 SECC t1.0
51	97T2700300	GEAR B	1 POM M90
50	97T3603400	SHAFT GEAR	1 BsBM
49	97T13A4400	KNOB EJECT	1 PC/ABS
48	97T2221800	REFLECTION DOOR	1 PC
47	97T6220100	CONN WAFER	1 SK DETACHABLE 12P
46	97T65918SB	PCB SERVO	1 FR-1
45	97T2444200	BRAK DECK B	1 SECC T1.0
44	97T2444100	BRAK DECK A	1 SECC T1.0
43	5S50101205	SW TACK	1 1C-1P KPT-117B 200G
42	5S50101A27	SW TACK	1 SKQNACK (KQN-903)
41	97T2608400	LEVER A	1
40	97T3013500	SPRING HOOK	1 W-1 D0.4
39	97T2442300	BRKT PLATE B	1 SECC t1.0 (BLACK)
38	97T1413600	ESCUTCHEON	1 ABS XR-404
37	97T0926600	PLATE	1 SECC t1.0 (BLACK)
36	97T2700200	GEAR A	1 POM M90
35	7273200312	SCREW	4 TT3 BIN 2*3MFZN BK
34	97T2503100	SUPPORTER	2 PC(BLACK)
33	-	-	-
32	97T3013400	SPRING TOSHION	1 PW-1 D0.6
31	97T3603300	SHAFT PLATE	2 BSBM
30	97T3804100	TRIM PLATE	1 ABS XR-404
29	97T0108900	CAB BACK	1 PC(BLACK)
28	7173201012	SCREW	4 TT2 2*10 BK
27	-	-	-
26	97T9606200	SHEET LCD	1 PC D-112 t=0.25
25	97T011550P	LCD, BASIC	1 IS06216P
24	97T011330P	LCD, RDS	1 EDH2358 TTD3043UPTDPN
23	97T65964FR	PCB FRONT	1 FR-4 T=1.6
22	5S50101205	TACT SW	20 1C-1P KPT-117B 200G
21	97T0420550/540	CAP LAMP	5 SILICON RUBBER GREEN/AMBER
20	97T0434000	COVER LCD	1 ET T=0.3
19	97T2221900	REFLECTOR SW	1 PC
18	97T4223200	CUSHION	1 SPONGE t=3
17	97T13A5400	KNOB SELECTOR	1 PC(BLUE)
16	97T1701300	POINTER A	1 PC(BLUE)
15	97T1701400	POINTER B	2 PC(AMBER)
14	97T13A5100	KNOB TUNING	1 PC/ABS
13	97T13A4300	KNOB BAND/PLAY	1 PC
12	97T3014100	SPRING DETA	1 SUS304 D0.3
11	97T13A4500	KNOB LOC/TOP	1 PC
10	97T13A5300	KNOB RELEASE	1 ABS XR-401
9	-	KNOB AUT	1 PC/ABS
8	-	KNOB LOU	1 PC/ABS
7	97T13A5100	KNOB PREST 5/6	1 PC/ABS
6	97T13A5000	KNOB PRESET 3/4	1 PC/ABS
5	97T13A4900	KNOB PRESET 1/2	1 PC/ABS
4	97T13A4800	KNOB MUTE	1 PC/ABS
3	97T13A5200	KNOB POWER	1 ACRYL IH-830(BLUE)
2	97T0108800	CAB FRONT	1 ABS XR-404 SILK SPRAY
1	97T1607900	WINDOW LCD	1 ACRYL IH-830
No.	PART CODE	PART NAME	QTY DESCRIPTION

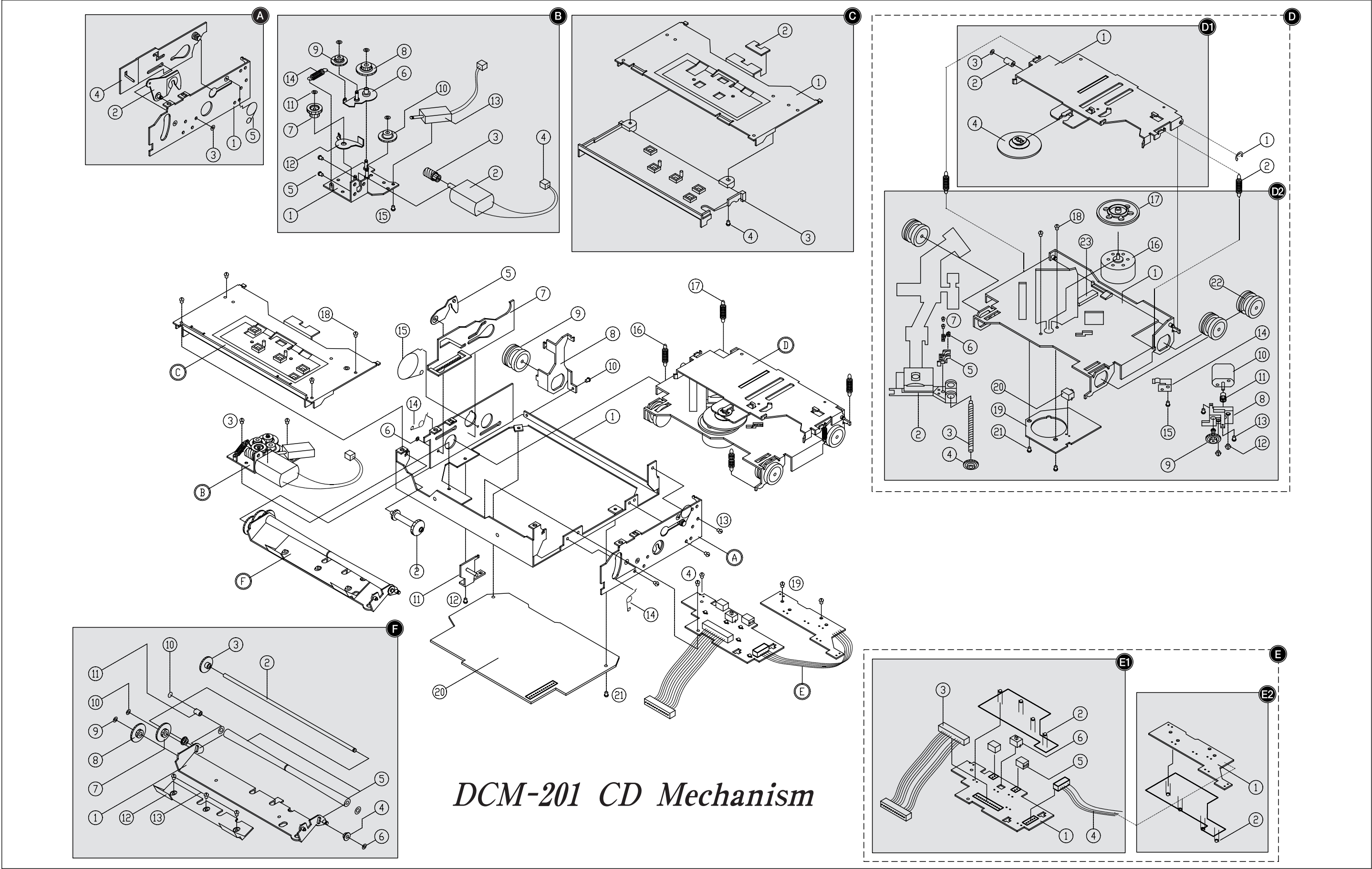
OVERALL EXPLODED VIEW & PARTS LIST

6-2. AKD-0285 BASIC & RDS



87	97T0420550	CAP LAMP	5	SILICON RUBBER GREEN	
86	97T2307000	HOLDER REG	1	PC LEXAN-121	
85	97T82L2WE4	LAMP PILOT	1	14V 40MA D3.0 0.13 MLD GN	
84	DLT4H11G41	LED	1	L74H11G-41(RED)	
83	97T2608800	DAMPER GEAR	1	DA-D6.0A B/B	
S8	7173300611	SCREW TAPPTITE	8	TT2 BIN 3X6 MFZN	
82	TKTB1366Y-	TR	1	KTB1366Y	
81	TKTD2058Y-	TR	1	KTD 2058-Y	
80	97T82LOKE4	LAMP PILOT	5	14V 40MA D3.0 0.13	
79	DLT4H11G41	LED	1	L74H11G-41(RED)	
78	97T0L1550P	LCD, BASIC	1	IS06216P	
78	97T0L1330P	LCD, RDS	1	EDH2358 ITD3043UPTDPN	
77	97T82LWE6	LAMP PILOT	2	14V 60MA D3.0 0.2 BLUECAP	
76	97H320330D	LABEL REF SW-A	2	STICKER 7X7X0.1T	
75	97T9607800	SHEET LCD C	2	D-TAPE NITTO 500	
74	97T9607200	SHEET LCD B	1	D-TAPE NITTO 500	
73	97T9607100	SHEET LCD A	1	D-TAPE NITTO 500	
72	97T1389600	KNOB PRESET 6	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
71	97T1389500	KNOB PRESET 5	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
70	97T1389400	KNOB PRESET 4	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
69	97T1389300	KNOB PRESET 3	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
68	97T1389200	KNOB PRESET 2	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
67	97T1389100	KNOB PRESET 1	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
66	97T1389700	KNOB MUTE	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
65	97T1389000	KNOB POWER	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
S7	7173200511	SCREW TAPPTITE	5	TT2 BIN 2X5 MFZN BK	
S6	7173200811	SCREW TAPPTITE	1	TT2 BIN 3X8 MFZN	
S5	7173201011	SCREW TAPPTITE	7	TT2 BIN 3X10 MFZN	
S4	97T3103610	SCREW LOCK	4	TT2 BIN 3X6 MFZN W/LOCK	
S3	7173201012	SCREW TAPPTITE	4	TT2 BIN 2X10 MFZN BK	
S2	7273200312	SCREW TAPPTITE	4	TT3 BIN 2X3 MFZN BK	
S1	7173200612	SCREW TAPPTITE	4	TT2 BIN 2X6 MFZN BK	
P3	97T65918MA	PCB MAIN	1	190X330XT1.6/2	
P2	97T65918SB	PCB SUB	1		
P1	97T65922FR	PCB FRONT	1		
64	97T3104900	BOLT HEX	1	SM20C M5X(3+2+10) MFZN	
63	5550101205	SW TACT	19	1C-1P KPT-1117B 200G	
62	97T6220100	CONNECTOR WAFER	1	SK DETACHABLE 12P	
61	5550101A27	SW TACT	1	SKQNC (KQNC-903)	
60	5LC301PA18	COIL CHOKE	1	37X1X5.2 300UH P EI-19MM	
59	1K1A7809P-	IC REGULATOR	1	K1A 7809P TO-220AB	
58	97T6220900	CONNECTOR	1	SKWB-20-S/P-T-T	
57	1TDA8567Q-	IC AUDIO POWER	1	TDA8567Q	
56	97T6366900	JACK ANT	1	ANT. J-020-30	
55	PNF0MBJV01	PCB FM 1-CHIP AS	1	CAT-7	
54	97T0433900	COVER BOTTOM	1	SECC T0.6	
53	97T5602600	PLATE INSULATION	1	PE T0.25	
52	97T2441800	BRACKET IC	1	SECC T1.0	
51	97T2442200	BRACKET IC	1	SECC T1.0	
50	97T0628200	FRAME MOUNTING	1	SECC T0.6	
49	97T4408100	HEAT SINK	1	AL T4.0	
48	97T6008900	DECK MECHANSIM	1	DCM-200	
47	97T0630200	CHASSIS MAIN	1	SECC T1.0	
46	97T2221800	REF. DOOR	1	PC 3022 IR (CLEAR)	
45	97T2444200	BRACKET DECK B	1	SECC T1.0	RDS
44	97T2444100	BRACKET DECK A	1	SECC T1.0	RDS
43	97T1414700	ESCUTCHEON	1	ABS XR-404	
42	97T2442300	BRACKET PLATE B	1	SECC T1.0 (BK)	
41	97T3013500	SPRING HOOK	1	PW-1 #0.4	
40	97T2608400	LEVER-A	1	PC	
39	97T13A4400	KNOB EJECT	1	PC (MILKEY)ABS (XR-401)BK	
38	97T3603400	SHAFT GEAR	1	BBSM	
37	97T2700300	GEAR B	1	POM M90	
36	97T2441900	BRACKET PLATE A	1	SECC T1.0 (BK)	
35	97T3013700	SPRING LOCK	2	PW-1 #0.8	
34	97T3603200	SHAFT HOOK	2	BBSM (BK)	
33	97T3013400	SPRING TOSHON	1	PW-1 #0.5	
32	97T2503100	SUPPORTER	2	POM (BK)	
31	97T3603300	SHAFT PLATE	2	BBSM	
30		E-RING	2		
29	97T2700200	GEAR A	1	POM M90	
28	97T0926600	PLATE	1	SECC T1.0 B.K	
27	97T0109600	CABINET BACK	1	PC LEXAN-121 GRAY	
26	5552643CL1	SW TACT	2	1C-1P SKMA 10918A 260G	
25	97T2223200	REFLECTION LCD	1	ACRYL IH-830H CLEAR	SPRAY SILK
24	97T9608100	SHEET LCD	1	TREPAL DT12 T0.14	
23	97T0435200	COVER LCD	1	ET T0.3	
22	97T2223100	REFLECTION SW	1	ACRYL IH-830H CLEAR	
21	97T2223500	REFLECTION VOL	1	ACRYL IH-830H CLEAR	
20	97T4223900	CUSHION KNOB A	1	SPONGE T3.0 (WH)	
19	97T4224000	CUSHION KNOB B	1	SPONGE T3.0 (WH)	
18	97T0435600	CAP KNOB TUNING	2	PC LEXAN-121 MILKY	
17	97T0435500	CAP KNOB VOL	2	PC LEXAN-121 MILKY	
16	97T3009710	SPRING DETA	1	SUS 304	
15	97T1389800	KNOB RELEASE	1	ABS XR-404 GRAY	
14	97T1388400	KNOB BAND	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
13	97T1388700	KNOB TOP	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
12	97T1388600	KNOB AS	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
11	97T1388500	KNOB LOC	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
10	97T1388800	KNOB MO	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
9	97T1388900	KNOB LD	1	PC LEXAN-121 CLEAR SPRAY	LASER MARKING
8	97T1388100	KNOB SEL	1	ACRYL IH-830H	
7	97T1388000	KNOB TUNING DN	1	ACRYL IH-830H	
6	97T1387900	KNOB TUNING UP	1	ACRYL IH-830H	
5	97T1387700	KNOB VOL UP	1	ACRYL IH-830H	
4	97T1387800	KNOB VOL DN	1	ACRYL IH-830H	
3	97T0109500	CABINET FRONT	1	ABS XR-404 GRAY SPRAY	
2	97T1608700	WINDOW LCD	1	ACRYL IH-830H CLEAR	
1	97T3804100	TRIM PLATE	1	ABS XR-404	
No.	PART CODE	PART NAME	QTY	DESCRIPTION	REMARK

7. DECK MECHANISM EXPLODED VIEW & PARTS LIST



SUB ASSY PARTS LIST

No	PART NAME	PART NO.	Q'TY	MARK
Ⓐ	CHASSIS SIDE TOTAL ASSY		1	A
1	CHASSIS SIDE ASSY	97LA202300	1	A
2	LOCK PLATE R ASSY	97LA202400	1	A
3	WASHER CUT D4xD2xT0.25	97L3101500	1	B
4	MOVING PLATE R ASSY	97LA202500	1	A
5	SPG MOVING PLATE	97L3003900	1	S
Ⓑ	CHASSIS GEAR TOTAL ASSY	97LA202600	1	A
1	CHASSIS GEAR ASSY	97LA302500	1	A
2	MOTOR LOADING	97L8100500	1	E
3	GEAR LOAD MOTOR	97L2702600	1	M
4	CONNECTOR ASSY 2P	97L8800202	1	E
5	SCREW MACHINE PAN M2x2.5	97L3101700	2	B
6	IDLER PLATE ASSY	97LA302700	1	A
7	GEAR 1	97L2702100	1	M
8	GEAR 2	97L2702200	1	M
9	GEAR 3	97L2702500	1	D
10	GEAR 4	97L2703400	1	M
11	WASHER CUT D5xD1.6xT0.25	97L3101400	4	B
12	LEVER SOLENOID	97L2601500	1	P
13	SOLENOID	97L7102100	1	E
14	SPRING IDLER	97L3003500	1	S
15	SCREW MACHINE PAN M2x2.5	97L3101700	1	B
Ⓒ	CHASSIS TOP TOTAL ASSY	97LA202900	1	A
1	CHASSIS TOP	97L0602400	1	P
2	CUSHION PLATE CLAMP	97L4201100	1	B
3	BRACKET CD GUIDE	97L2400900	1	M
4	SCREW TAPTITE SPL M2x3.5	97L3101300	2	B
Ⓓ	CHASSIS FLOATING ASSY	97LA202700	1	A
D1	CHASSIS CLAMP TOTAL ASSY	97LA303300	1	A
1	CHASSIS CLAMP ASSY	97LA402000	1	A
2	ROLLER CLAMP	97L3700900	1	C
3	WASHER CUT D4xD1.6xT0.25	97L3101400	1	C
4	PLATE CLAMP	97L0901500	1	M
D2	DRIVE UNIT TOTAL ASSY	97LA303200	1	A
1	DRIVE UNIT ASSY	97LA401700	1	A
2	PICK-UP ASSY(DOP-200)	97LA101700	1	A
3	GUIDE SLED SCREW	97L2501400	1	C

No	PART NAME	PART NO.	Q'TY	MARK
4	GEAR SLED SCREW	97L2702700	1	M
5	SLIDER RACK	97L5200300	1	M
6	SPG SLED INSERT	97L5200100	1	M
7	SCREW MACHINE PAN M1.7x3	97L3102100	2	B
8	HOLDER FEED MOTOR	97L2301100	1	M
9	GEAR CENTER	97L2702800	1	M
10	MOTOR FEED	97L8100600	1	E
11	GEAR FEED MOTOR	97L2703300	1	M
12	SCREW MACHINE PAN M2x5 SW	7051200511	2	B
13	SCREW MACHINE PAN M2x3	7001200311	2	B
14	PLATE SPG	97L0902200	1	P
15	SCREW TAPPING PAN T2S M2x4	7121200411	1	B
16	MOTOR SPINDLE	97L8100700	1	E
17	TURN TABLE	97L2501500	1	M
18	SCREW MACHINE PAN M1.7x2.5	97L3102200	2	B
19	PCB SP MOTOR	97L65015BA	1	E
20	SWITCH LIMIT	5S50101113	1	E
21	SCREW TAPPING PAN T2S M2x4	7121200411	2	B
22	DAMPER RUBBER	97L2600900	3	Ru
1	E-RING(φ 2)	7402002011	1	B
2	SPRING CLAMP	97L3004300	2	S
Ⓔ	SENSOR PCB ASSY	97LA203200	1	A
E1	LED PCB ASSY	97LA303100	1	A
1	PCB LED	97L65015DA	1	E
2	LED	DSI2321---	4	E
3	CONNECTOR ASSY 12P	97L8800201	1	E
4	CONNECTOR ASSY 5P	97L8800203	1	E
5	CONN WAFER(ANGLE) 2P	97P6271000	2	E
6	SWITCH DETECT	5S50101112	1	E
E2	PT PCB ASSY	97LA303400	1	A
1	PCB PT	97L65015LA	1	E
2	PHOTO TR	TST2321---	4	E
Ⓕ	HOLDER ROLLER TOTAL ASSY	97LA202800	1	A
1	HOLDER ROLLER ASSY	97LA302700	1	A
2	SHAFT ROLLER	97L3600800	1	C
3	GEAR ROLLER	97L2703100	1	M
4	BEARING ROLLER	97L5300100	2	M
5	ROLLER RUBBER	97L3700800	1	Ru
6	WASHER CUT D4xD2xT0.25	97L3101500	1	B

No	PART NAME	PART NO.	Q'TY	MARK
7	GEAR RELAY 2	97L2703000	1	M
8	GEAR RELAY 1	97L2702900	1	M
9	WASHER CUT D6xD2.6xT0.25	97L3101600	1	B
10	WASHER CUT D4xD1.6xT0.25	97L3101400	1	B
11	ROLLER BUSH	97L3701100	1	C
12	BRACKET DOOR	97L2401400	1	M
13	SCREW TAPTITE SPL M2x3.5	97L3101300	2	B

DECK TOTAL ASSY PARTS LIST

No	PART NAME	PART NO.	Q'TY	MARK
1	CHASSIS MAIN	97L0601700	1	P
Ⓑ	CHASSIS GEAR TOTAL ASSY	97LA202600	1	A
2	GEAR DOUBLE	97L2702400	1	M
3	SCREW TAPTITE PAN M2x3.5	97L3101800	2	B
Ⓔ	SENSOR PCB ASSY	97LA203200	1	A
4	SCREW TAPTITE SPL M2x3.5	97L3101300	2	B
5	LOCK PLATE L ASSY	97LA202000	1	A
6	WASHER CUT D4xD2xT0.25	97L3101500	1	B
7	MOVING PLATE L ASSY	97LA202100	1	A
8	HOLDER DAMPER	97L2300900	1	P
9	DAMPER RUBBER	97L2600900	1	Ru
10	SCREW TAPTITE PAN M2x3.5	97L3101800	1	B
11	BRACKET DAMPER ASSY	97LA202200	1	A
12	SCREW TAPTITE PAN M2x3.5	97L3101800	1	B
Ⓓ	CHASSIS FLOATING ASSY	97LA202700	1	A
Ⓕ	HOLDER ROLLER TOTAL ASSY	97LA202800	1	A
Ⓐ	CHASSIS SIDE TOTAL ASSY		1	A
13	SCREW TAPTITE PAN M2x3.5	97L3101800	3	B
14	SPRING HOLDER ROLLER	97L3003800	2	S
15	SPRING MOVING PLATE	97L3003900	1	S
16	SPRING SUSPENSION F	97L3004000	2	S
17	SPRING SUSPENSION R	97L3004100	2	S
Ⓒ	CHASSIS TOP TOTAL ASSY	97LA202900	1	A
18	SCREW TAPTITE PAN M2x3.5	97L3101800	4	B
19	SCREW TAPTITE SPL M2x3.5	97L3101300	2	B
20	PCB TOTAL ASSY	97LA0003P-	1	A
21	SCREW TAPTITE SPL M2x3.5	97L3101300	3	B

8. PARTS LIST

CAUTION **R** is a recommendable part for essential stock.

MAIN SECTION

LOCATION	CODE	NAME	DESCRIPTION
B001	97T65918MA	PCB MAIN	190 × 330 × T1.6/2
CW101	97T62E7213	WAFER CN-W	00-8283-1311-000
CW102	97T6221000	CONNECTOR	ELCO FFC/FPC 6200 18P
CW104	97T6220900	CONNECTOR	SKWB-20-S/P-T.T
DL101	DLT4H11G41	LED	LT4H11G-41(RED)
D901	DRL203----	DIODE	RL203
R IC101	12BS2366K2	IC CHIP CUSTOM	LC72366-9524 (RDS)
	12BS2366K3	IC CHIP CUSTOM	LC72366-9523 (RDS:INTE)
	12BS2362V0	IC CHIP CUSTOM	LC72362-9581 (BASIC)
R IC102	1BU1924F--	IC AUDIO	BU1924(SOP) (RDS)
	1SAA6579T-	IC AUDIO	SAA6579T (RDS:INTE & PMS)
R IC103	124LC16BSQ	IC CHIP EEPROM	24LC16B-I/SN (RDS)
IC104	1LC75371M-	IC CHIP EVR	LC75371M MFP36S
IC105	1TDA8567Q-	IC AUDIO POWER	TDA8567Q
IC106	1K1A7809P-	IC REGULATOR	K1A 7809P T0-220AB
J101	97T6366900	JACK ANT.	J-020-03
LC101	5LC301PA18	COIL CHOKE	37 × 1 × 5.2 300UH P EI-19MM
PCB01	97T65918FL	PCB FLEXIBLE	166.5 × 60.6 18P AKD-0277R
R PL101	97T82L2WE4	LAMP PILOT	14V 40MA D3.0 0.13 MLD GN
	97T82L1WE4	LAMP PILOT	14V 40MA D3.0 0.13 MLD OR
Q112	TKTD2058Y-	TR	KTD 2058-Y
Q900	TKTB1366Y-	TR	KTB 1366-Y
RV101	RV1417504-	R SEMI FIXED	H500K-5X5-6N-PC-BS
DP101	DSP301NA--	DIA SURGE PROTECTOR	DSP-301N-S00B AUTO
LL101	5LL568K02K	COIL INDUCTOR	0.56UH K 02 TA 26MM
D102	DKTZ10B---	DIODE ZENER	MTZ-10V 26MM TAPING
D107	DKTZ9R1B--	DIODE ZENER	MTZ-9.1V AUTO 26MM
D903	DKTZ7R5B--	DIODE ZENER	MTZ-7.5 26MM TAPING
D104,D113,D128,D129,D130	DKTZ5R6B--	DIODE ZENER	MTZ-5.6 26MM TAPING
D109	DKTZ5R1B--	DIODE ZENER	MTZ-5.1 AUTO 26MM
D143,D902	DKN4004A--	DIODE	KN4004A AUTO 26MM
D103,D110,D114,D116,D117 D118,D119,D120,D122,D123 D133,D138,D906	DKSS133---	DIODE	1SS133 AUTO 26MM
Q101,Q104,Q108,Q129,Q124 Q126,Q129,Q132,Q901	TZRC106M--	TR	KRC106M(AUTO)

PARTS LIST

LOCATION	CODE	NAME	DESCRIPTION
Q105,Q123	TZRA101M--	TR	KRA101M(AUTO)
Q106,Q111,Q121,Q128	TZ2SD1862R	TR	2SD1862R AUTO
Q107,Q131	TZTA1267Y-	TR	KTA1267Y TAPPING
Q110,Q127	TZ2SB1240R	TR	2SB1240R
Q115,Q116,Q119,Q120,Q125	TZRC231M--	TR	KRC231M(KEC)
XT101	5XJX4R500E	CRYSTAL QUARTZ	4.5MHZ 12PF 49/S
R XT102	TZRC231M--	CRYSTAL QUARTZ	HC-49/U 4.332MHZ (RDS)
Q102,Q103	TZTC3199Y-	TR	KTC-3199Y TAPPING

FRONT SECTION

LOCATION	CODE	NAME	DESCRIPTION
R B002	97T65918FR	PCB FRONT	AKD-0275 (RDS)
	97T65922FR	PCB FRONT	AKD-0285 (RDS)
	97T65964FR	PCB FRONT	AKD-0275 (BASIC)
	97T65965FR	PCB FRONT	AKD-0285 (BASIC)
CW301	97T6220100	CONNECTOR WAFER	SK DETACHABLE 12P
DL301	DLT4H11G41	LED	LT4H11G-41(RED)
R LCD01	97T0L1330P	LCD	EDH2358 TTD3043UPTDPN (RDS)
	97T0L1550P	LCD	IS06216P (BASIC)
PL301,PL302,PL303,PL304 PL305,PL306,PL307	97T82L0WE4	LAMP PILOT	14V 40MA D3.0 0.13
SW316,SW318	5S52643CL1	SW TACT	1C-1P SKMA 10918A 260G
SW301-SW315,SW317 SW319,SW320	5S50101Z02	SW TACT	1C-1P SKQC10918B 260G
DA301,DA302	D1MN10---B	DIODE CHIP	1MN10
DA303	DDA204K--B	DIODE CHIP	DA204K T146(AUTO)
R IC301	1LC75854E-	IC CHIP DRIVER	LC75854E QIP64E (RDS)
	1LC75853N-	IC CHIP DRIVER	LC75853N QIP64E (BASIC)

PARTS LIST

SUB SECTION

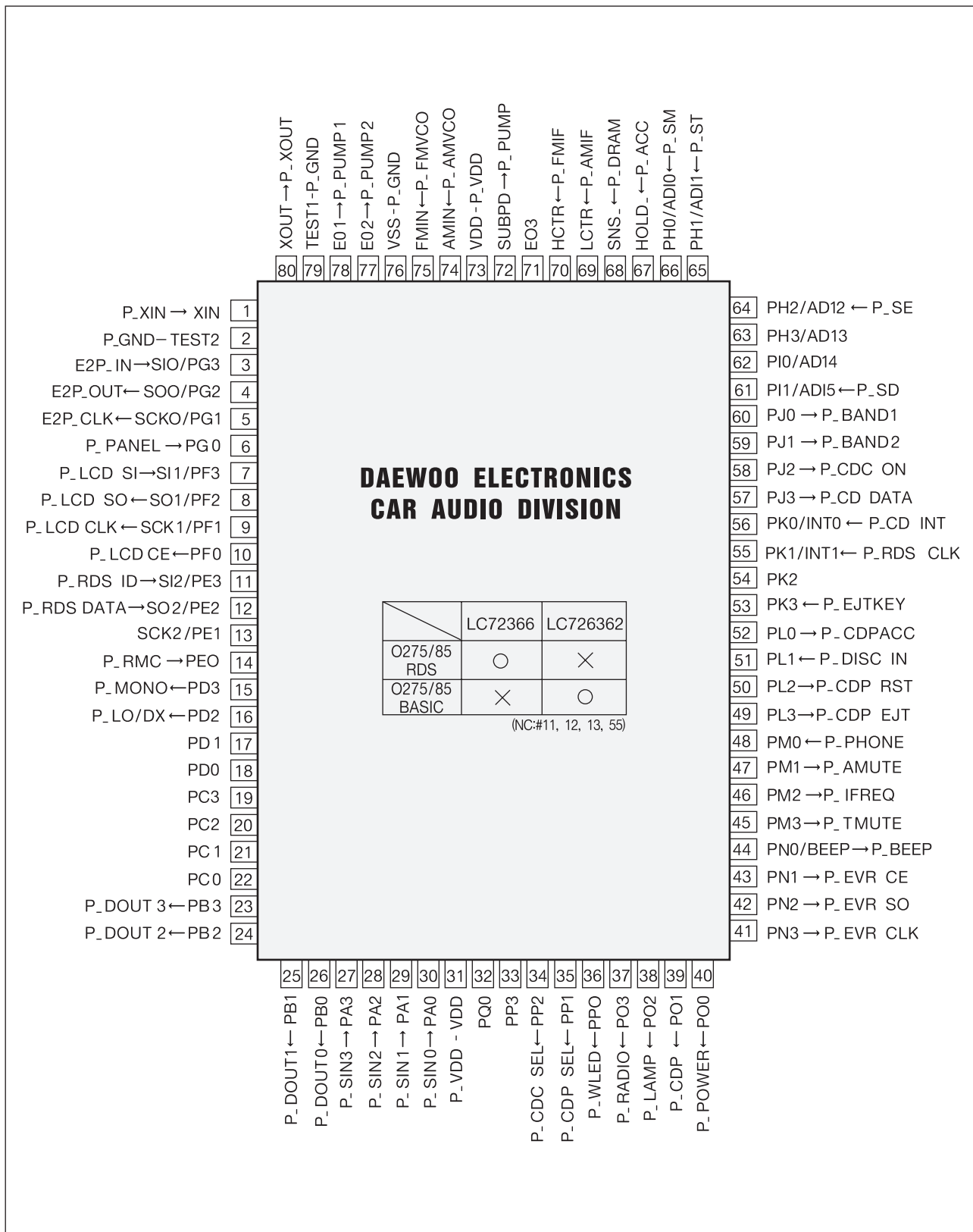
LOCATION	CODE	NAME	DESCRIPTION
B003	97T65918SB	PCB SUB	AKD-0275R
CW701	97T6218800	CONNECTOR	SK-1.8-12P DETACHABLE
CW702	97T6220400	CONNECTOR	E28-5084-013-000-808
SW701	5S50101Z02	SW TACT	1C-1P SKQC10918B 260G
SW702	5S50101A08	SW TACT	SKHV109 18C LG

CONN ACCESSORY

BUYER	CODE	NAME	DESCRIPTION
RDS : INTERCONTI	97T8858400	CONN AS	SK20P+1SO16P INTERCONTI
	97T8846000	CONN AS	J8P20(I/P) 280 J4P(S)
RDS : PMS	97T8856500	CONN AS	SK20P+ISO16P ADAPTER
	97T8853100	CONN AS	ISO8P 300 8PSTRIP/TUBE
	97T8853200	CONN AS	ISO8P 300 5PSTRIP+TUBE
RDS : HAEGEN	97T8856500	CONN AS	SK20P+ISO16P ADAPTER
RDS : DEITA	97T8856500	CONN AS	SK20P+ISO16P ADAPTER
	97T8858300	CONN AS	ISO 16P W/PHONE,ILL
BASIC	97T8854300	CONN AS	SK20P EXT ACCESSORY 0275A

9. FUNCTION OF MICOM IC

9-1. PIN CONFIGURATION



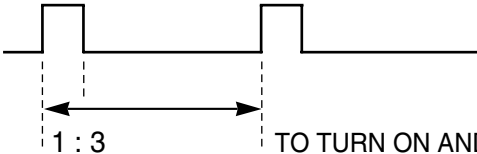
9-2. PIN DESCRIPTIONS

PIN	PIN NAME	DESCRIPTION	I/O
1	XIN	CONNECTION TO 4.5 MHz CRYSTAL	I
80	XOUT		O
78	EO1	OUTPUT COMPAIRED WITH PHASE	O
77	EO2	IF LOCAL OSCILLATION FREQUENCY IS HIGHER THAN STANDARD FREQUENCY. OUTPUT IS HIGH, IF NOT OUTPUT IS LOW, AND IF SAME OUTPUT IS HIGH-Z.	O
71	EO3	OUTPUT TERMINAL FOR AM 2ND CHANGE PUMP. (IF STANDARD FREQUENCY OF AM IS 90kHz) --REFER TO ATTACHED PAGE.	O
76	VSS	POWER TERMINAL	
73,31	VDD		
75	FMIN	INPUT TERMINAL IF FM VCO(LOCAL OSCILLATION) INPUT RANGE:	I
74	AMIN	INPUT TERMINAL IF AM VCO(LOCAL OSCILLATION) INPUT RANGE:	I
72	SUBPD	OUTPUT OF PLL LOCK UP SUB FOR SPEEDY PLL LOCK. REFER TO ATTACHED PAGE ABOUT CIRCUIT USED.	O
70	HCTR	INPUT TERMINAL OF FM IF COUNT INPUT RANGE : 107MHz $\pm$ 30kHz, Vpp=	I
69	LCTR	INPUT TERMINAL OF AM IF COUNT INPUT RANGE : 450kHz $\pm$ 1kHz (AM) : 450kHz $\pm$ 0.37kHz (LW) Vpp=	I
68	SNS_	PART THAT CHECKS DAMAGE OF BACK-UP MEMORY AFTER COMING BACK TO (BACK-UP)MODE. REFER TO ATTACHED PAGE ABOUT CIRCUIT USED.	I
67	HOLD_	CONTROL TERMINAL OF BACK UP MODE. IF INPUT IS HIGH, WORKING IS NORMAL. IF INPUT IS LOW, IT REVERTS TO BACK UP MODE. IF INPUT OF (ACC)IN IS LOW ACCORDING TO CLOCK OPTION CLOCK IS DISPLAYED.	I
79	TEST1	TEST PORT (CONNECTED TO GROUND)	-
2	TEST2		-
12	PE2	RECEIVING RDS DATA FROM RDS DEMODULATOR IC.	I
11	PE3	REFER TO ATTACHED PAGE ABOUT DATA TIMING CHART.	I
55	INT1		I

FUNCTION OF MICOM IC

PIN	PIN NAME	DESCRIPTION	I/O												
46	PM2	TUNER MUTE PORT. WHEN TUNING, OUTPUT IS HIGH THEN MUTE IS ON. (SEEK, WHEN SD CHECK)	O												
47	PM1	AUDIO MUTE PORT, ACTIVE HIGH	O												
38	LAMP	AFTER FRONT PANEL IS RELEASED, LAMP IS EXTINGUISHED IN 20 SECONDS	O												
44	PN0/BEEP	OUTPUT PORT OF BEEP. BEEP COMES OUT AT 2.08, OR 3.75kHz DEPENDING ON OPERATION REQUESTED	O												
60	PJ0	BAND SELECT PORT IN TUNER MODE.	O												
59	PJ1	<table border="0" style="margin-left: 40px;"> <tr> <td></td><td>FM</td><td>MW</td><td>LW</td></tr> <tr> <td>BAND_1</td><td>H</td><td>L</td><td>L</td></tr> <tr> <td>BAND_2</td><td>L</td><td>H</td><td>L</td></tr> </table>		FM	MW	LW	BAND_1	H	L	L	BAND_2	L	H	L	O
	FM	MW	LW												
BAND_1	H	L	L												
BAND_2	L	H	L												
37	PO3	WHEN RADIO MODE IS CHOSEN. OUTPUT IS HIGH	O												
65	PH1/ADI1	STEREO INPUT TERMINAL STARTING IS HIGH, WHEN INPUT IS LOW ON AIR STEREO IS DISPLAYED	I												
61	PI1/ADI5	SIGNAL DETECTION PORT. STARTING INPUT IS HIGH, INPUT IS CHANGED INTO LOW WHEN RECEIVING THE RADIO FREQUENCY.	I												
45	PM3	MUTING (WHEN CHECKING AF IN RADIO MODE) LOW (IN ACTIVE, HIGH AND OTHERS MODES)	O												
48	PM0	INPUT TERMINAL OF USING-TELEPHONE SIGNAL STARTING IS HIGH. MUTING IF ACTIVE BECOMES	I												
16	PD2	LOCAL MODE → HIGH DX MODE → LOW STARTING IS LOW	O												
15	PD3	USED RADIO MODE ONLY. STARTING OUTPUT IS LOW. MONO MODE → LOW STEREO MODE → HIGH	O												
66	PH0/ADI0	SIGNAL METER INPUT TERMINAL RANGE-AT SEEK LOCAL ; DX ; AT AF	I												
64	PH2/ADI2	SECURITY CODE STORAGE. NORMAL → 5V, ACTIVE → 2.5V	I												
40	PO0	POWER CONTROL PORT. POWER OFF → LOW, POWER ON → HIGH WHEN MICOM RESET, OUTPUT IS HIGH. (LCD BACK LIGHTING)	O												

FUNCTION OF MICOM IC

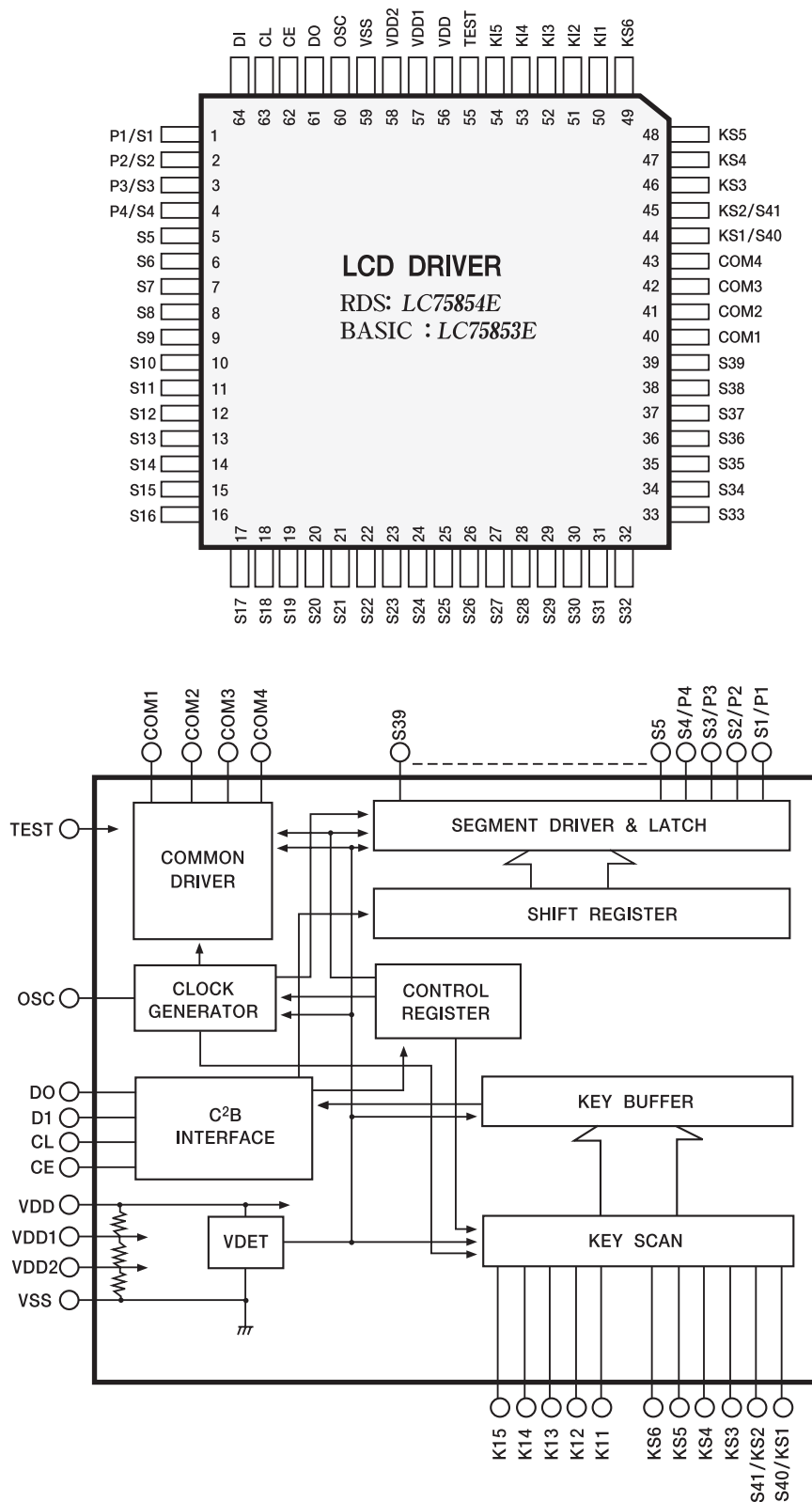
PIN	PIN NAME	DESCRIPTION	I/O
6	PG0	DETACHABLE ON/OFF INPUT PORT CONTACT HIGH SEPARATE LOW	I
36	PP0	WARNING LED OUTPUT PORT.  TO TURN ON AND OFF LED BY CYCLE OF 1 SEC.	O
14	PE0	WIRELESS REMOCON DATA INPUT PORT REFER TO ATTACHED PAGE ABOUT RMC DATA FORMAT.	I
56	INT0	CDP/CDC DISPLAY DATA INPUT PORT	I
57	PJ3	CDP/CDC CONTROL DATA OUTPUT PORT	O
58	PJ2	CDC MODE ON OUTPUT PORT. OUTPUT IS HIGH IN CDC MODE. OUTPUT IS LOW IN OTHERS CONDITION. REFER TO ATTACHED PAGE ABOUT CDC COMMUNICATION SPECIFICATION.	O
39	PO1	CDP MODE ON OUTPUT PORT. OUTPUT IS HIGH IN CDP MODE. OUTPUT IS LOW IN OTHERS CONDITION REFER TO ATTACHED PAGE ABOUT CDC COMMUNICATION SPECIFICATION	O
49	PL3	CDP EJECT CONTROL SIGNAL. OUTPUT IS HIGH AT STARTING. OUTPUT IS LOW WHEN CDP EJECT KEY IS IN.	O
50	PL2	SIGNAL FOR CD MECHA CONTROL MICOM RESET.	O
52	PL0	ON/OFF CONTROL SIGNAL FOR CD MECHA POWER.	O
7	PF3	KEY & LC DRIVER IC INTERFACE PORTS.	I
8	PF2		O
9	PF1		O
10	PF0		O
3	PG3	E2PROM INTERFACE PORTS	I
4	PG2		O
5	PG1		O
42	PN2	EVR IC INTERFACE PORTS	O
41	PN3		O
43	PN1		O

FUNCTION OF MICOM IC

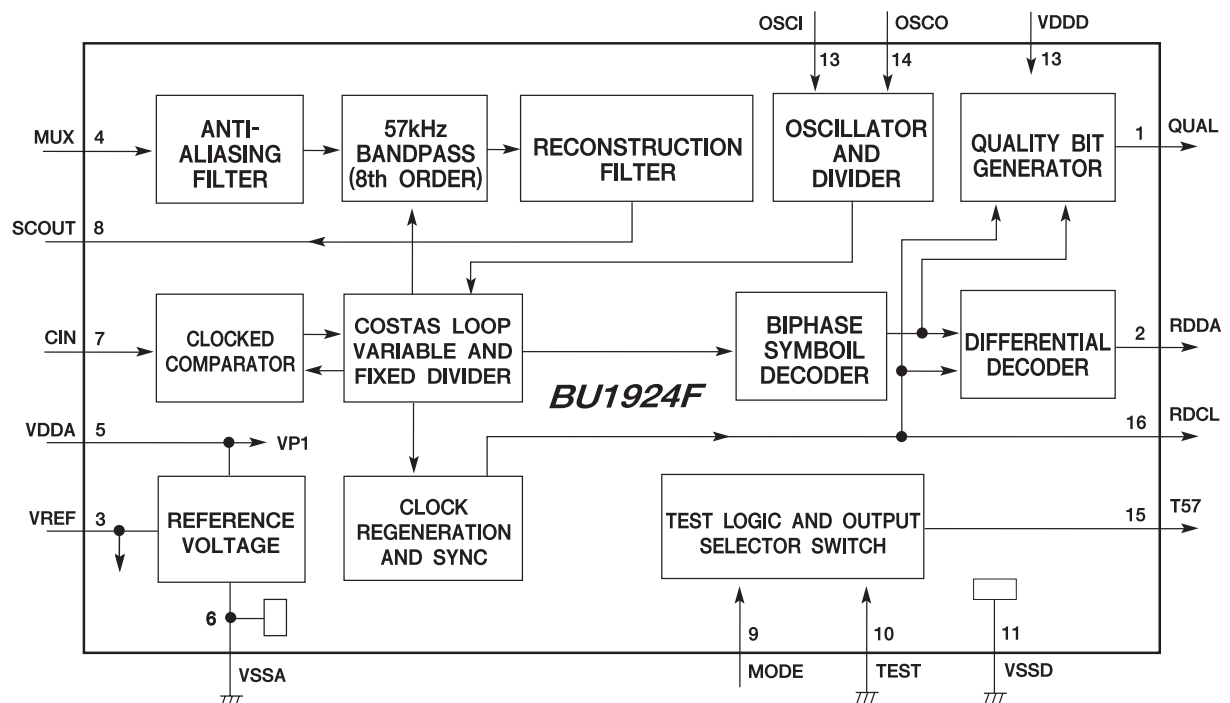
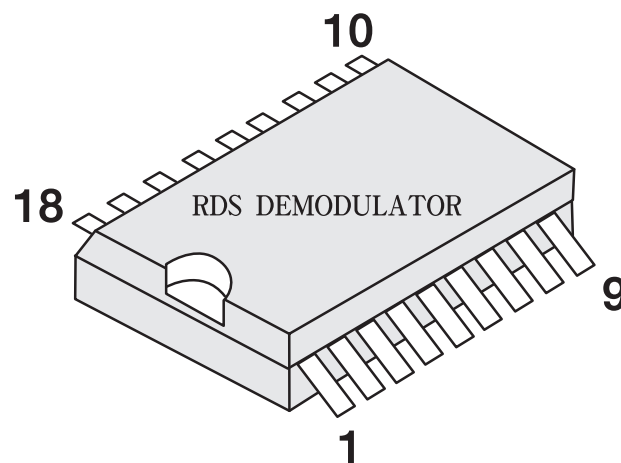
PIN	PIN NAME	DESCRIPTION	I/O
27	PA3	OPTION DIODE MATRIX INPUT	I
28	PA2		I
29	PA1		I
30	PA0		I
23	PB3	OPTION DIODE MATRIX OUTPUT	O
24	PB2		O
25	PB1		O
26	PB0		O
53	P-EJTKEY	CDP DISC EJECT KEY INPUT PORT	I
34	PP2	DISC IN NO DISC	O
35	PP1	CDC_SEL L H CDP_SEL H L	O
51	PL1	CDP DISC IN CHECK INPUT (SENSOR2) DISC IN : HIGH NO DISC : LOW	I

10. IC BLOCK DIAGRAM

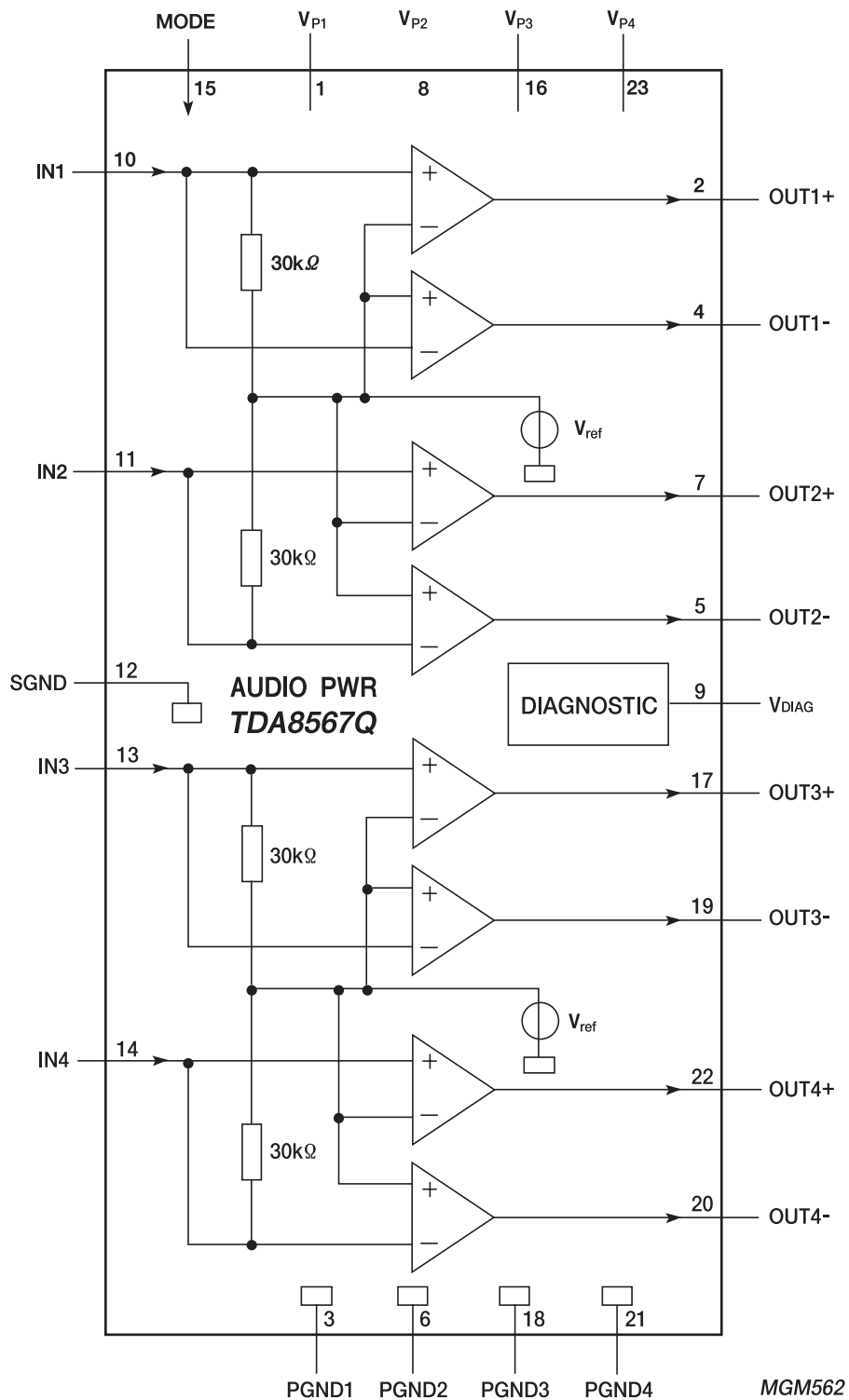
10-1. LC75854E (IC LCD DRIVER)



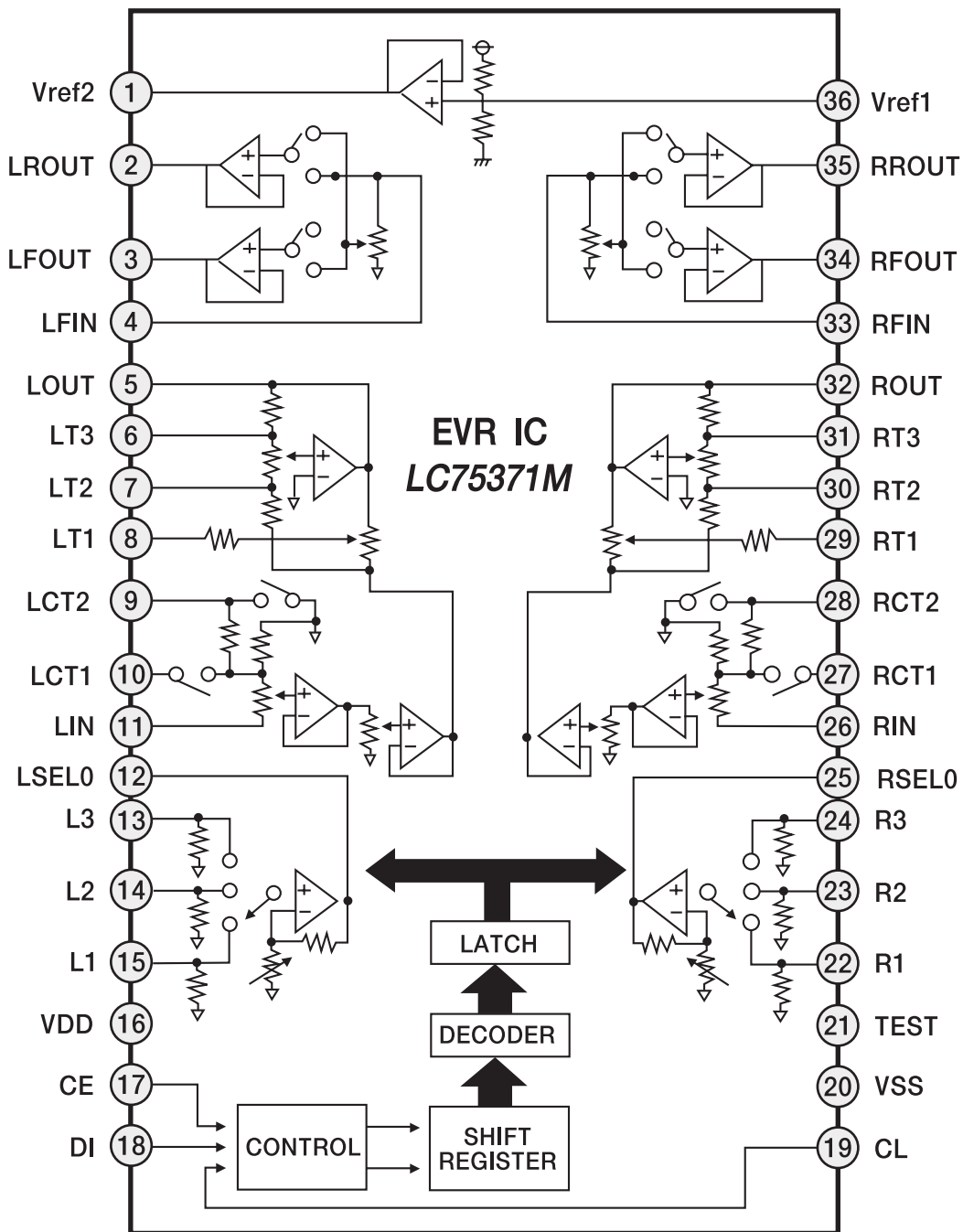
10-2. BU1924F / SAA6579T (IC RDS DEMODULATOR)



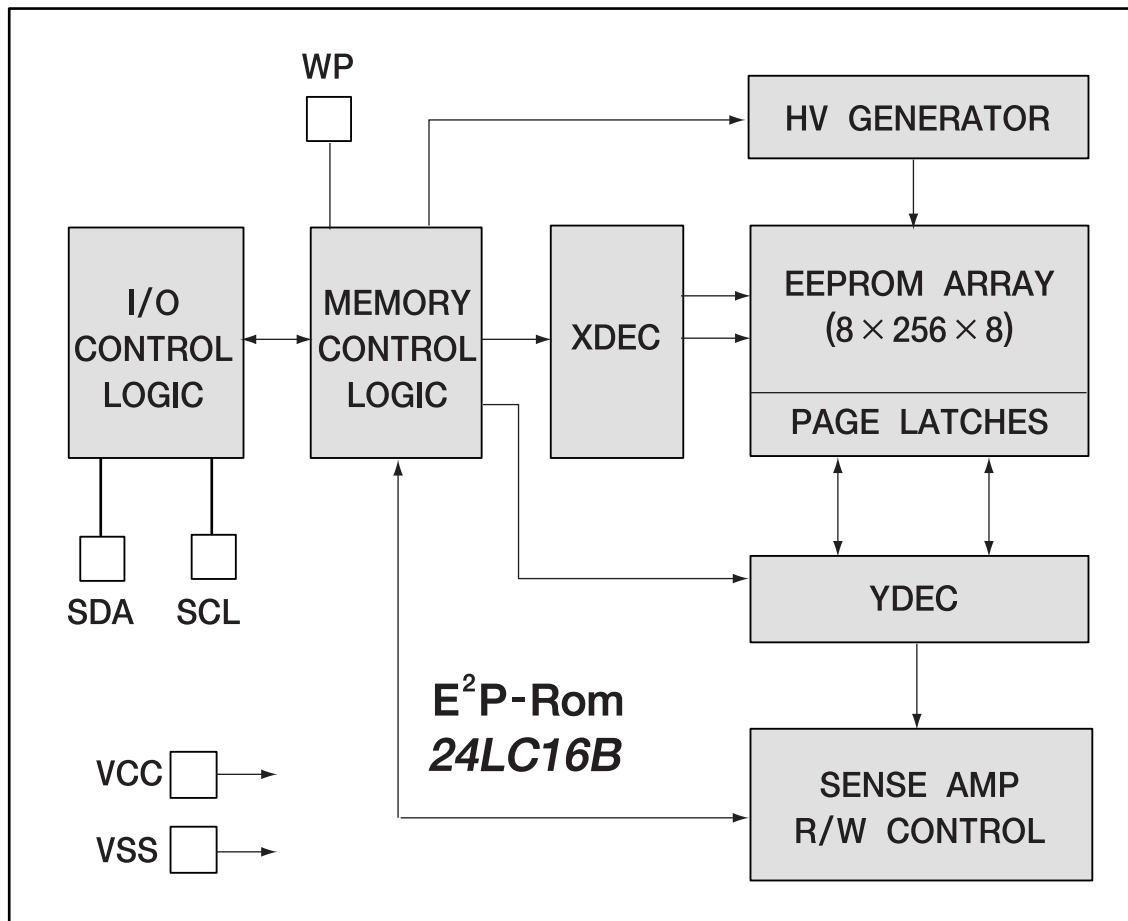
10-3. TDA8567Q (IC AUDIO POWER)



10-4. LC75371M (IC EVR)



10-5. 24LC16B (IC EEPROM)



11. LIQUID CRYSTAL DISPLAY

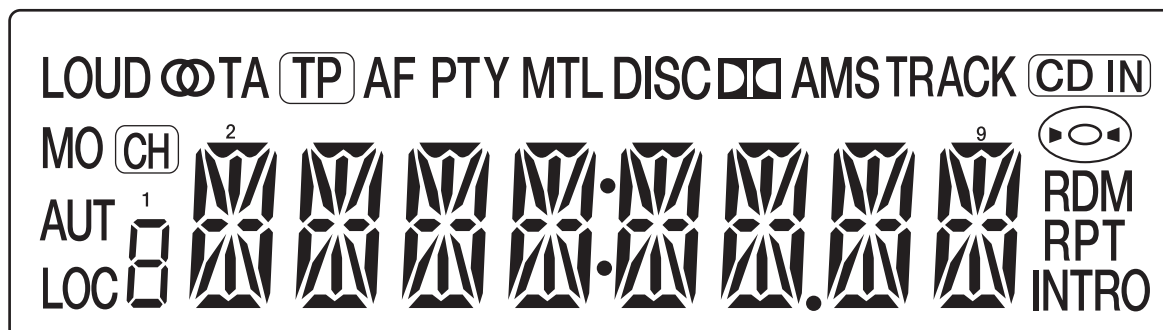
11-1. AKD-0275/0285 BASIC



PAD No.	COM1	COM2	COM3
1	--	--	COM3
2	--	COM2	--
3	COM1	--	--
4	FM	I1	AM
5	LOC	MW	LW
6	LOUD	1A	1B.C
7	2F	2E	2D
8	2A	2G	2H
9	RDM	2B	2C
10	3F	3E	3D
11	3A	3G	3H
12	K	3B	3C
13	P1	P2	P3
14	4A	4F	4E
15	4G	4H	4D
16	4B	4C	INTRO
17	5F	5E	DISC
18	5A	5G	5D
19	5B	5C	RPT
20	6F	6E	AUT
21	6A	6G	6D
22	6B	6C	TRACK
23	7F	7E	MUTE
24	7A	7G	7D
25	7B	7C	--
26	S1	II2	PM

LIQUID CRYSTAL DISPLAY

11-2. AKD-0275/0285 RDS



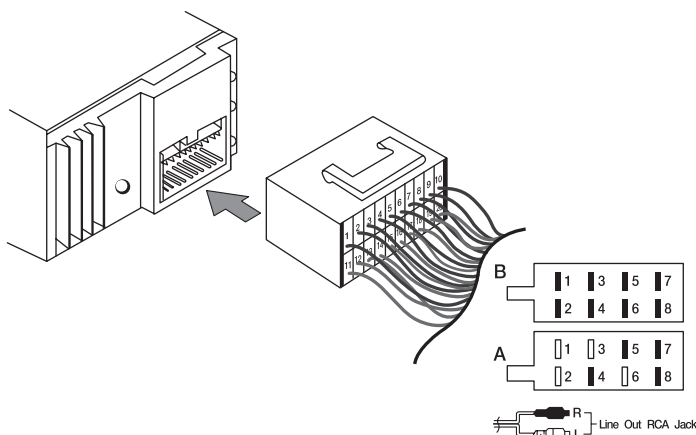
IC NO	39	4	5	6	7	38	37	36	35	8	9	10	11	34	33
LCD NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COM1	COL3	9B	9H	9A	RPT	8B	8H	8A	RDM	7B	7H	7A	COL2	6B	6H
COM2	MTL	9I	9G	9O	9F	8I	8G	8O	8F	7I	7G	7O	7F	6I	6G
COM3	AMS	9C	9K	9L	9N	8C	8K	8L	8N	7C	7K	7L	7N	6C	6K
COM4	TAPE IN	INTRO	9D	9M	9E	TRACK	8D	8M	8E	DOT	7D	7M	7E	DISC	6D

IC NO	32	31	30	29	28	27	12	13	14	15	26	25	24	23	16
LCD NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
COM1	6A	PTY	5B	5H	5A	---	4B	4H	4A	---	3B	3H	3A	TA	2B
COM2	6O	6F	5I	5G	5O	5F	4I	4G	4O	4F	3I	3G	3O	3F	2I
COM3	6L	6N	5C	5K	5L	5N	4C	4K	4L	4N	3C	3K	3L	3N	2C
COM4	6M	6E	COL4	5D	5M	5E	AF	4D	4M	RE	TP	3D	3M	3E	---

IC NO	17	18	19	20	21	22	40	41	42	43
LCD NO.	31	32	33	34	35	36	37	38	39	40
COM1	2H	2A	COL1	1D	LOC	LOUD	COM1	---	---	---
COM2	2G	2O	2F	1C	1E	MO	---	COM2	---	---
COM3	2K	2L	2N	1G	1F	CH	---	---	COM3	---
COM4	2D	2M	2E	1B	1A	AUT	---	---	---	COM4

12. OUTPUT CONNECTOR DESCRIPTIONS

AKD-0275/0285 BASIC & RDS



A. POWER SUPPLY

4. Yellow ... Back-Up Battery + 12V
5. Blue ... Remote DC + 12V (Power Ant)
6. Pink ... Illumination
7. Red ... Power Supply DC + 12V (ACC)
8. Black ... Ground

B. 4-SPEAKERS

1. Violet ... Rear Right (+)
2. Violet/Black ... Rear Right (-)
3. Gray ... Front Right (+)
4. Gray/Black ... Front Right(-)
5. White ... Front Left (+)
6. White/Black ... Front Left (-)
7. Green ... Rear Left (+)
8. Green/Black ... Rear Left (-)

1	YELLOW	Back-up(+12)
3	GRAY/BLACK	Right Front Speaker -
4	GRAY	Right Front Speaker +
5	GREEN/BLACK	Left Rear Speaker -
6	GREEN	Left Rear Speaker +
7	BROWN	NO CONNECTION
8	RCA JACK (RED)	Line out (Right)
9	RCA JACK (WHITE)	Line out (Left)
11	BLACK	Ground
13	VIOLET/BLACK	Right Rear Speaker -
14	VIOLET	Right Rear Speaker +
15	WHITE/BLACK	Left Front Speaker -
16	WHITE	Left Front Speaker +
17	BLUE	Power ANT
18	PINK	Illumination
19	RED	Ignition Power (12+V)

• NOTE: The red cable must be connected via the car's ignition lock to prevent unwanted discharge of the car battery if it is not used for longer periods of time.

• NOTE: If wiring connection are made wrong, the unit will not operate properly and it could be damaged.

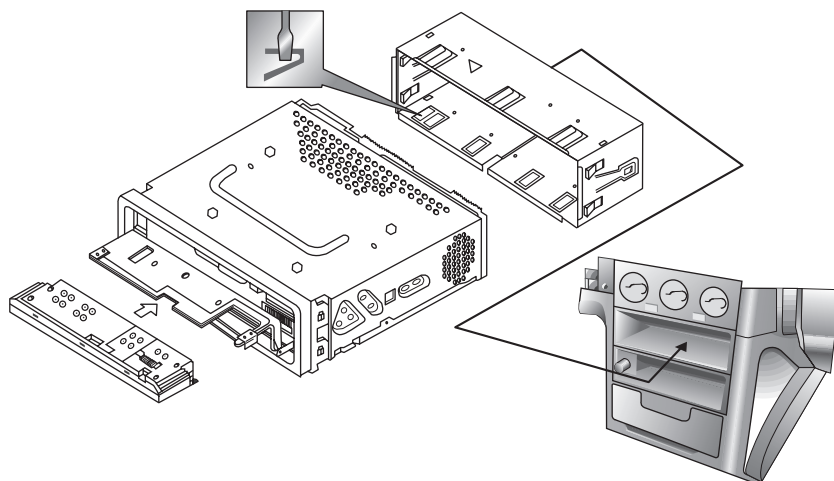
13. HOW TO INSTALL

● NOTE

- Use only the supplied mounting hardware for safe and secure installation.
- Please consult your nearest dealer if you get any problem with installation.

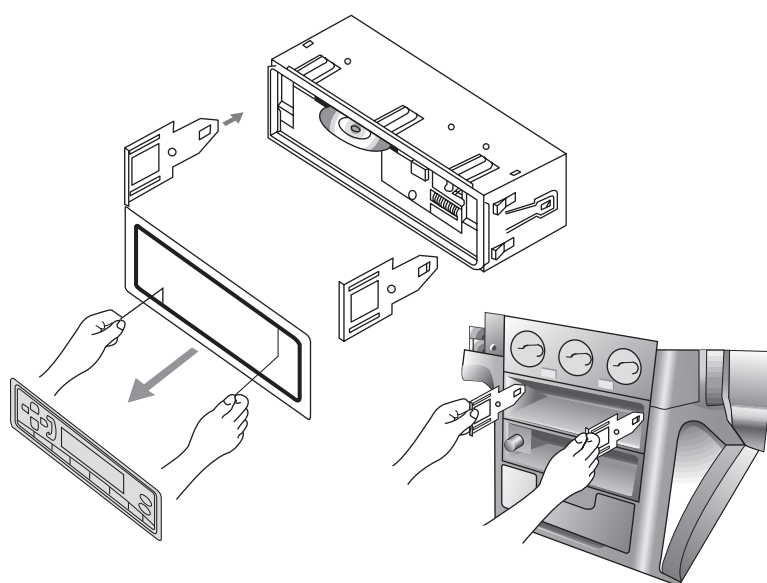
● HOLDER

- Insert the holder into the car radio slot. Fasten the holder by pulling and bending the tabs which are located around the holder as illustrated.



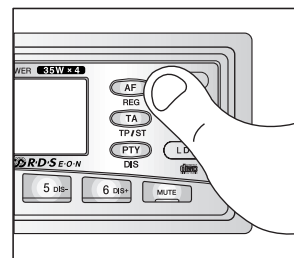
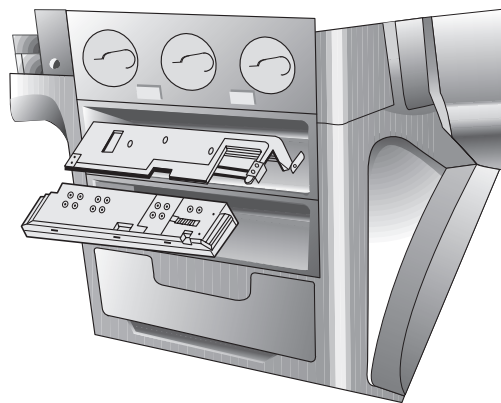
■ HOW TO REMOVE THE APPARATUS

Press the release knob to open up the front panel and detach it by pulling it towards you. Insert the enclosed handles into the slots of the unit, as illustrated, while pressing the handle lightly, then pull the unit out of the holder.



■ Detaching the front panel

1. Press the release knob to open up panel.
2. Holding the middle upper side of the panel, pull it straight out towards the arrow direction. (See the figure)
3. The red lamp blinks to tell you that the front panel has been detached. (It could be stolen)
4. Do not press the panel hard against the unit. It can easily be attached by pressing it lightly. And, beware not to drop it.
5. Keep the front panel in the supplied protection case.



■ Attaching the front panel

1. Holding the panel at its top and bottom edges.
2. Attach one side of the panel lightly first, then push the other side of the panel into the unit.

Keep in mind :

- If it works malfunction, take the panel off and put it back again.
- Do not touch the contact pins on the rear of the front panel, this can cause contact errors. If the contacts are not clean, clean contacts with a cotton swab dipped in alcohol.
- Do not expose the front panel to direct heat or cold.
- Be careful not to splash juice or other soft drinks into the car audio.
- Do not apply too much force. Otherwise, the panel may be damaged.
- Never take the front panel apart.

Maintenance and Precautions

■ FM car antenna

When tuning in FM stations while the vehicle is moving, the vehicle will pass through changing signal conditions ranging from strong signals near broadcast stations to extremely weak signals. If any FM antenna is not used, the sensitivity may be reduced and the noise may increase as the signal conditions keep changing. For FM reception with a good sound quality and minimal noise, it is recommended that you attach a special FM car antenna.

■ Protection circuits

The protection circuits inside the unit function in the following circumstances.

- When the speaker terminals have been shorted.
- When the covering of the speaker cords has been worn away or cut and the wires inside are touching the vehicle body.
- When the inside temperature has risen due to some cause or other.
- When an overcurrent has flowed and the supply voltage has increased to an abnormal level.

If the protection circuits function during operation, find out what is wrong before continuing operation. No sound is heard through the speakers while these circuits are functioning.

Replacing the fuse

If the fuse has blown, replace with a fresh unit having the same amperage. If the new fuse blows as soon as it is inserted, there may be something wrong with the unit. In cases like this, contact your dealer.

- When opening the fuse holder, always make sure that the ignition is switch off.

DAEWOO

DAEWOO ELECTRONICS CO., LTD

686, AHYEON-DONG MAPO-GU
SEOUL, KOREA
C.P.O. BOX 8003 SEOUL, KOREA
TELEX : DWELEC K28177-8
CABLE : "DAEWOOELEC"
E-mail : G7F00E@web.dwe.co.kr
TEL : 82-2-360-7799
FAX : 82-2-360-7877