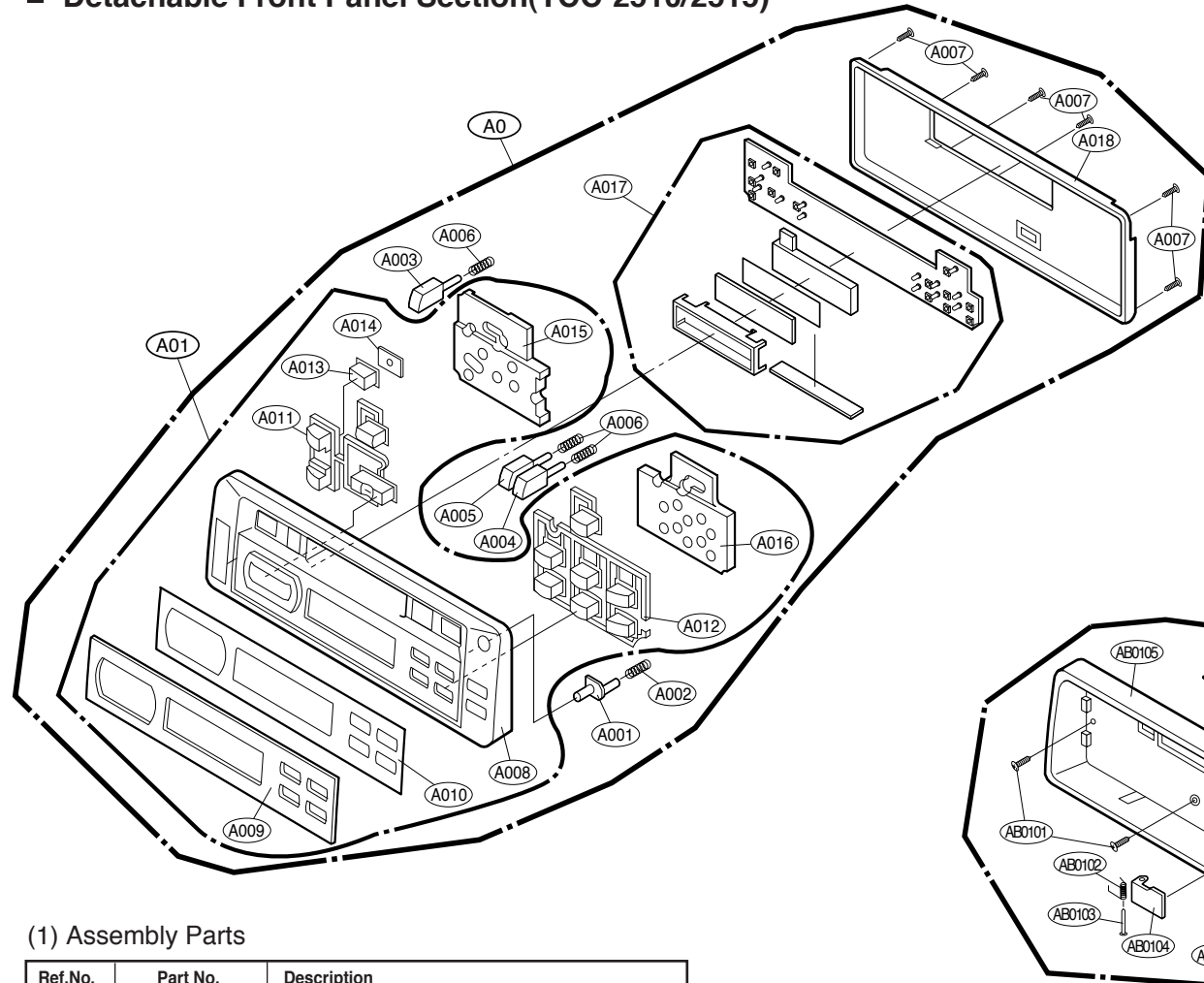
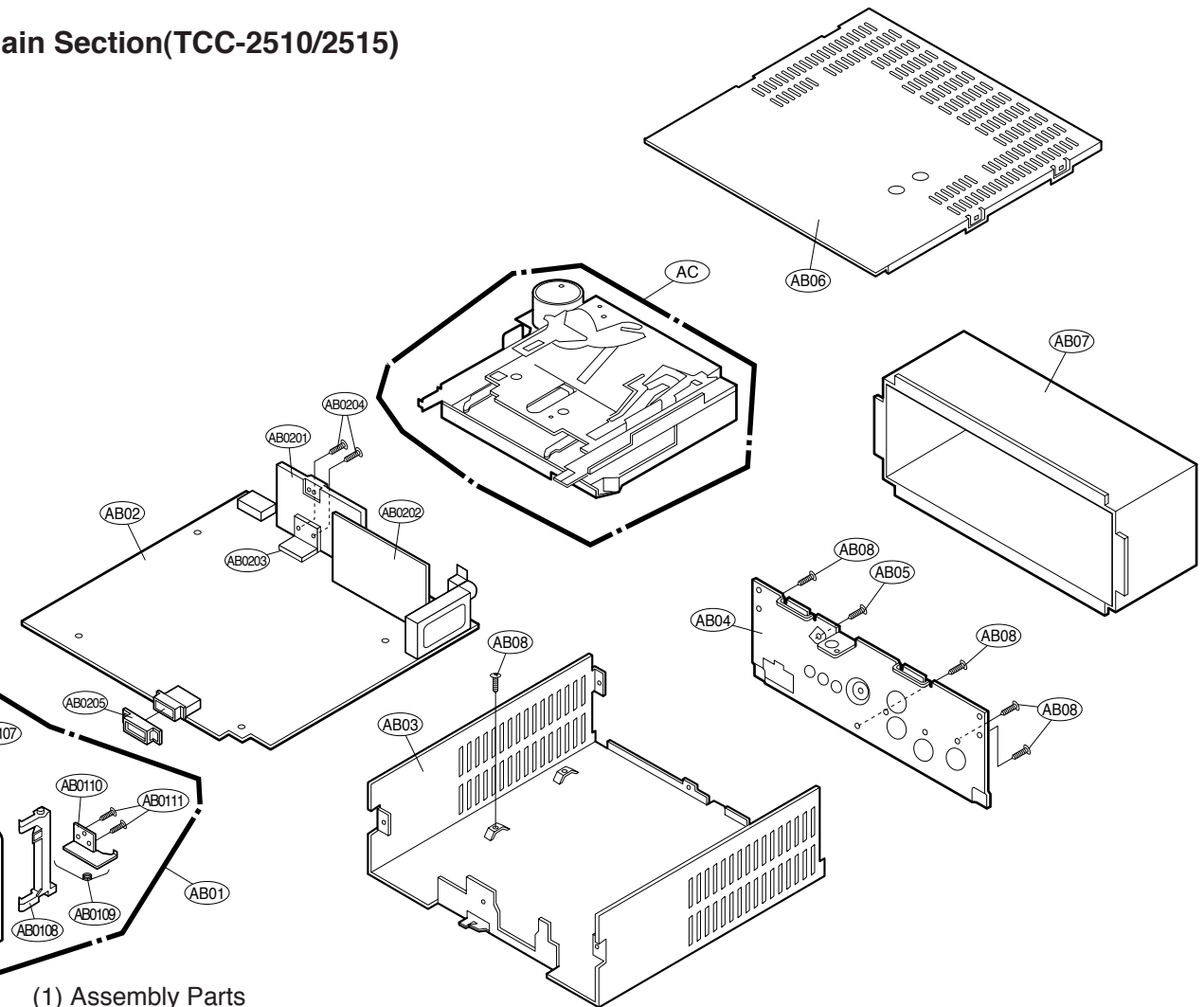


10. EXPLODED VIEW & PARTS LIST

■ Detachable Front Panel Section(TCC-2510/2515)



■ Main Section(TCC-2510/2515)



(1) Assembly Parts

Ref.No.	Part No.	Description
A0	6762SE0033A	DETACHABLE FRONT ASS ; ㄩ(TCC-2515)
	6762SE0031B	DETACHABLE FRONT ASS ; ㄩ(TCC-2510)
A01	3111SEM070A	Front Case ASS'Y(TCC-2515)
	3111SEM071A	Front Case ASS'Y(TCC-2510)
A017	6871SD41GAB	DETACHABLE FRONT PCB ASS ; ㄩ(TCC-2515)
	6871SD41GAD	DETACHABLE FRONT PCB ASS ; ㄩ(TCC-2510)

(2) Individual Parts

Ref. No.	Part No.	Description
A001	5020S-0011A	BUTTON,RELEASE
A002	447-976E	COIL,SPRING(RELEASE)
A003	5202S-0012A	BUTTON,EJECT
A004	5020S-0013A	BUTTON,DECK FF
A005	5020S-0014A	BUTTON,DECK REW
A006	442-976J	COIL,SPRING(REW/FF)
A007	353-645A	SCREW(2X8)
A008	3110S-M070A	CASE,FRONT(TCC-2515)
	3110S-M070B	CASE,FRONT(TCC-2510)
A009	3790S-M066A	DEKO WINDOW(TCC-2515)
	3790S-M066B	DEKO WINDOW(TCC-2510)
A010	3858S-X070A	ETC SHEET
A011	5020S-0008A	BUTTON,TUNE/POWER (TCC-2515)
	5020S-0008B	BUTTON,TUNE/POWER (TCC-2510)
A012	5020S-0009A	BUTTON,PRESET/BAND(TCC-2515)
	5020S-0009B	BUTTON,PRESET/BAND(TCC-2510)

Ref. No.	Part No.	Description
A013	5020S-0010A	BUTTON,MD/LD(TCC-2515)
	5020S-0010B	BUTTON,MD/LD(TCC-2510)
A014	4850S-0021A	CUSHION,MD/LD
A015	3040S-0007A	LEFT REFLECTOR
A016	3034S-0008A	RIGHT REFLECTOR
A018	3110S-M069B	REAR CASE(TCC-2515)
	3110S-M069C	REAR CASE(TCC-2510)

(1) Assembly Parts

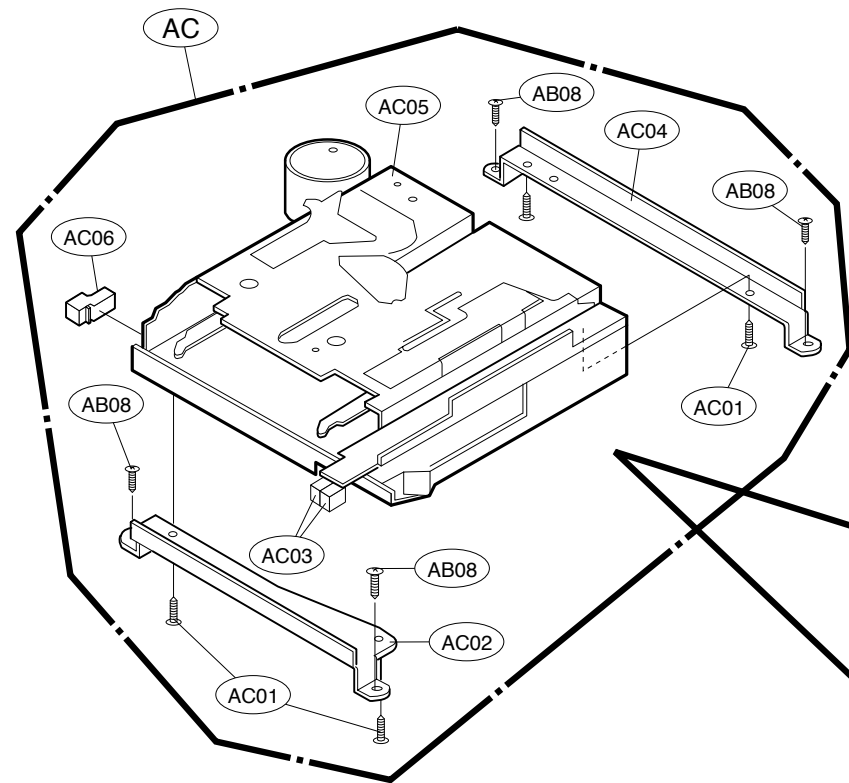
Ref. No.	Part No.	Description
AB01	3721SEM073A	TRIM PANEL ASS'Y(TCC-2515)
	3721SEM073B	TRIM PANEL ASS'Y(TCC-2510)
AB02	6871SE41XAA	MAN PCB ASS'Y(3BAND, L-OUT)
	6871SE41XAB	OIRTMAN PUB ASS'Y(BWT)
	6871SE41XAC	FM/MW PCB ASS'Y(2 BAND)
	6871SE41XAD	FM/MW/LW PCB ASS'Y(3 BAND)

(2) Individual Parts

Ref. No.	Part No.	Description
AB0101	1MBC0261416	SCREW(2.6 x 4)
AB0102	442-566E	SPRING, UNIT PUSH
AB0103	423-561F	SHAFT, UNIT PUSH
AB0104	4510S-0016A	LEVER, UNIT PUSH
AB0105	3720S-M005A	TRIM PANEL(TCC-2515)
	3720S-M005B	TRIM PANEL(TCC-2510)
AB0106	3580S-A017A	CASSETTE DOOR(TCC-2515)
	3580S-A015A	CASSETTE DOOR(TCC-2510)
AB0107	442-333A	SPRING DOOR
AB0108	4510S-0025A	LOCK LEVER
AB0109	442-565A	SPRING L-LEVER (0.5)
AB0110	4810S-0018A	BRACKET L-LEVER
AB0111	353-028A	SCREW, TAP TITE 2X6

Ref. No.	Part No.	Description
AB0201	4920S-P004A	HEAT SINK
AB0202	6871SE422AB	TUNER PCB ASS ; ㄩ(MW/LW)
	6871SE422AD	TUNER PCB ASS ; ㄩ MW(AM)
AB0203	4810S-1015A	IC POWER BRACKET
AB0204	1MRC0302818	SCREW (3 x 12)
AB0205	3110S-P035A	TERMINAL CASE
AB03	3140S-P017A	MAIN CHASSIS
AB04	3140S-P018A	BACK CHASSIS
AB05	353-022M	SCREW(3 x 6)
AB06	3550S-0006A	COVER, TOP ; -
AB07	3110S-P026A	CASE, DIN SLEEVE ; -
AB08	1MBC0262018	SCREW(2.6 x 6)

■ Deck Section (TCC-2510/2515)

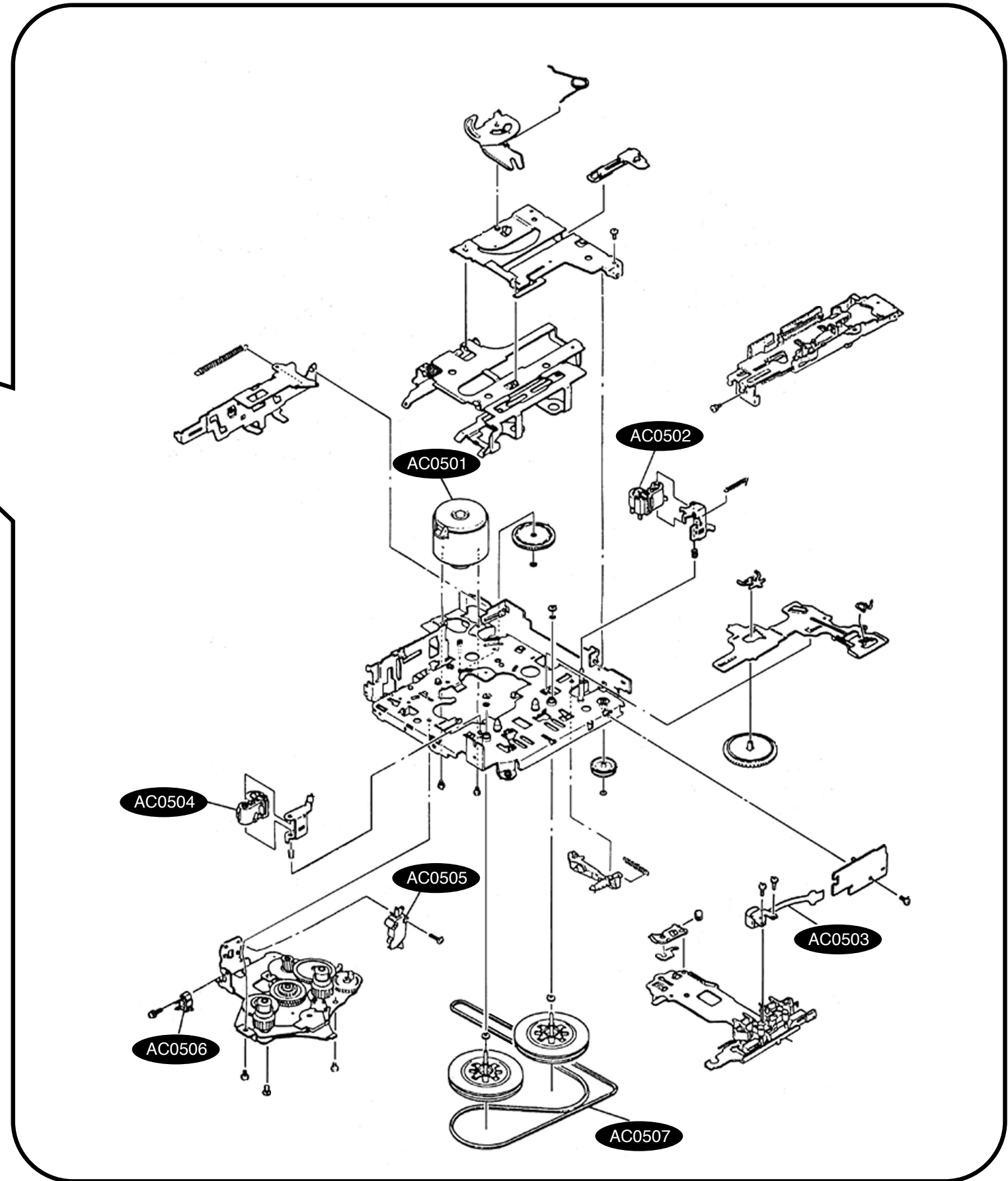


(1) Assembly Parts

Ref. No.	Part No.	Description
AC	6731SEK003A	DECK MECHANISM ASSY
AC05	6730S-K002A	DECK MECHANISM ASSY

(2) Individual Parts

Ref. No.	Part No.	Description
AC01	IMPC0301418	SCREW(M3 x 4)
AC02	4810S-1012A	BRACKET(DECK-REAR)
AC03	324-974B	HOLDER,FF/REW
AC04	4810S-1013A	BRACKET(DECK-REAR)
AC0501	6768S-OT01A	MOTOR ASSY TND EG5
AC0502	6768S-AT01A	ARM TND
AC0503	6768S-HT02A	HEAD TND MS35P-SF00
AC0504	6768S-AT01B	ARM TND
AC0505	6768S-TT01A	SWITCH TND QAS-1229
AC0506	6768S-TT01B	SWITCH TND SW-230-0
AC0507	6768S-BT01A	BELT/FELT TND
AC06	324-973B	EJECT HOLDER



4. ADJUSTMENTS

1. Test & Adjustment point

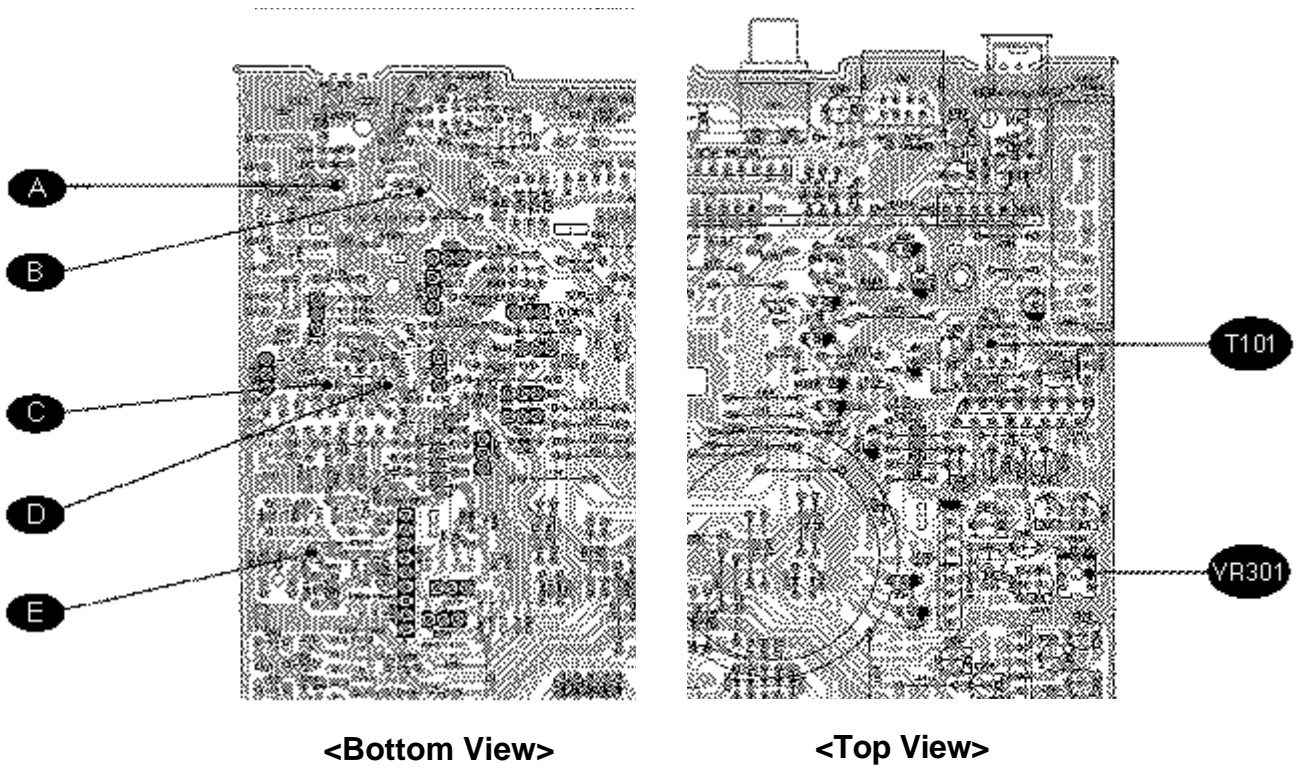


Figure 1. MAIN PCB Board

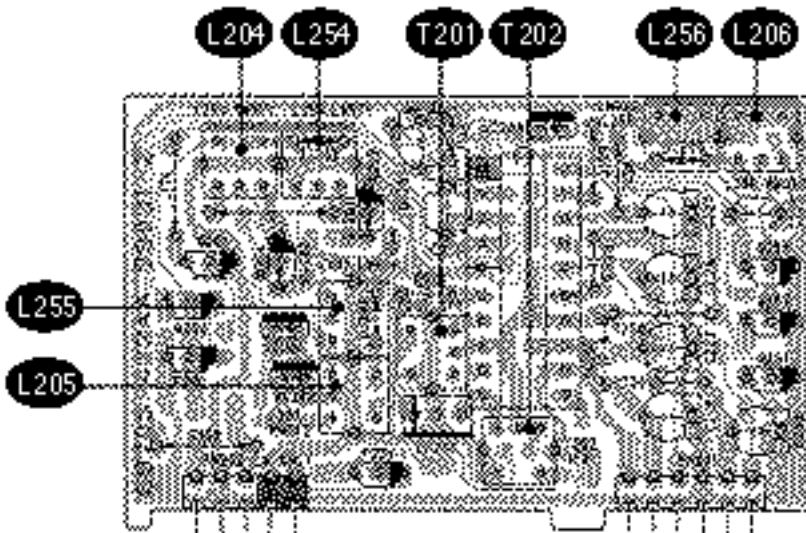


Figure 2. RF PCB Board

2. FM Adjustment

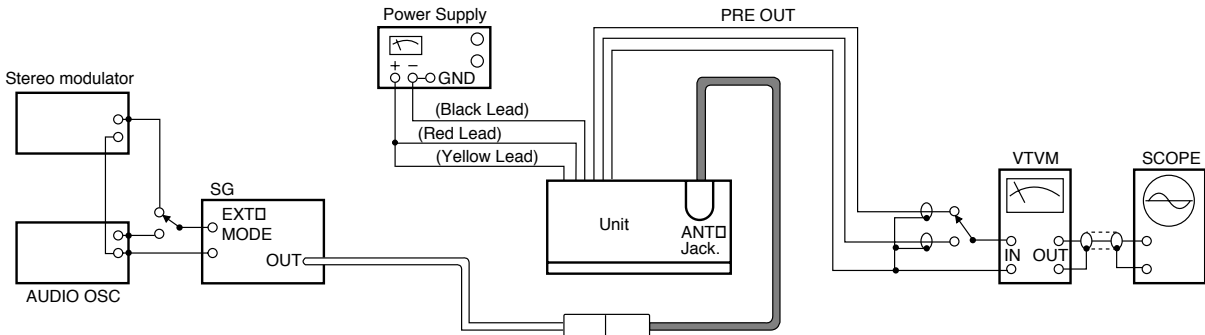


Figure 3.

- (1) The impedance of FM antenna terminal is 75Ω.
Therefore, connect coaxial cable (3C-2V etc.) between FM SG and antenna terminal when wiring.

Type \ Item	FM SSG Attenuator Indication	Available Power Ratio	Antenna Terminal Voltage
Open indication type	0dB	5.2dBf	6 dB/μV
	60dB	65.2dBf	66dB/μV
Load or close indication type	0dB	11.2dBf	12dB/μV
	54dB	65.2dBf	66dB/μV

- (2) There are two kind in indication of FM SG output attenuator.
1) Attenuator with marking of 75Ω open...open indication type.
2) Attenuator with marking of 75Ω load or close ... load or close indication type.
- (3) FM SG output level in this FM adjustment are described as open indication type. The left table shows relations among FM SG attenuator indication (dB), available power ratio (dBf) and antenna terminal voltage (dB/μV) in each indication type.

Notes:

1. BAND Switch FM
2. BALANCE Center
3. TREBLE/BASS Center
4. Connect as shown in figure 3.
5. Refer to figure 1~2 for Adjustment Points.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUSTMENT	ADJUST FOR
		FROM	TO			
1	Discriminator	98MHz 60dB 22.5kHz Dev. FM SSG	ANT Jack or Point A	Between Point D (R111), DC Volt Meter.	T101	DC 0V ±10mV
2	MPX Adjustment	98MHz 60dB 75kHz Dev FM SSG	Same as above	Between Point E, Frequency Counter	VR301	76kHz ± 50Hz

3. AM(MW) Adjustment (TCC-2510/2515)

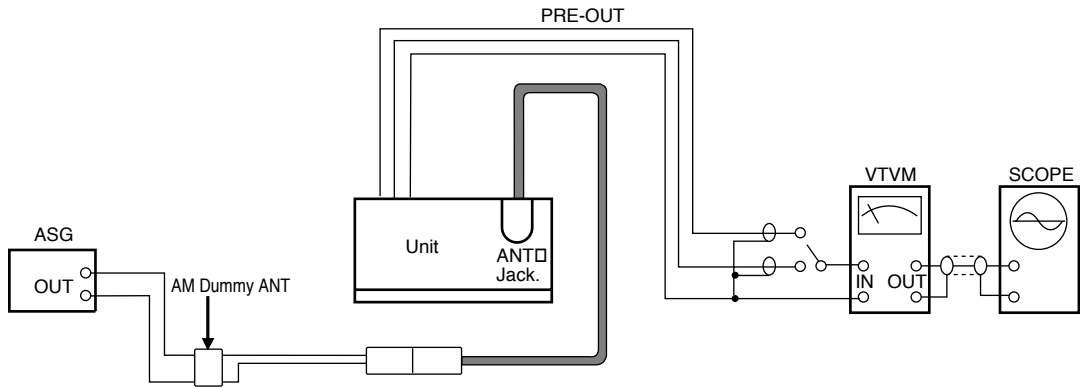


Figure 4.

Notes:

1. BAND Switch.....AM(MW)
2. Connect as shown in figure 4.
3. Refer to figure 1~2 for Adjustment Points.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUSTMENT	ADJUST FOR
		FROM	TO			
1	520 or 522kHz Tuning Voltage Adjustment	No Input		LCD Display (Reception Frequency)	TUNE ◀/▶ Button	520 or 522kHz
				Between Point B and GND, DC Volt Meter	L206	DC 1.2V ± 0.05V
2	IF Coil Adjustment	600kHz or 603kHz ANT input, 30dB, 400Hz (30% MOD) SSG.	ANT Jack or Point A	Output L or R ch, VTVM & Oscilloscope	T201 & T202	Max. Output
3	600kHz or 603kHz RF Adjustment	600kHz or 603kHz ANT input, 30dB, 400Hz (30% MOD) SG.	Same as above	LCD Display (Reception Frequency)	TUNE ◀/▶ Button	600 or 603kHz
				Output L or R ch, VTVM & Oscilloscope	L204 & L205	Max. Output

4. LW Adjustment(Optional)

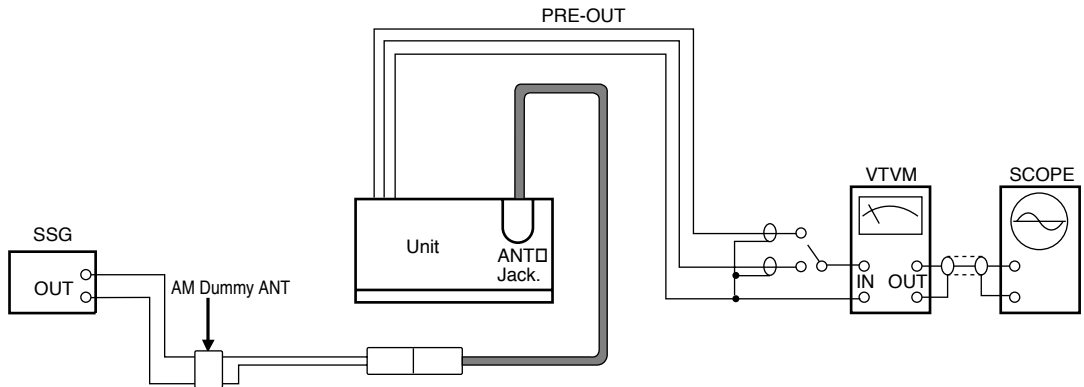


Figure 5.

Notes:

1. BAND Switch.....LW
2. Connect as shown in figure 5.
3. Refer to figure 1~2 for Adjustment Points.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUSTMENT	ADJUST FOR
		FROM	TO			
1	144kHz Tuning Voltage Adjustment	No Input		LCD Display (Reception Frequency)	TUNE ◀/▶ Button	144kHz
				Between Point B and GND, DC Volt Meter	L256	DC 1.2V±0.05V
2	150kHz RF Adjustment	150kHz ANT input, 30dB, 400Hz (30% MOD) SSG.	ANT Jack or Point A	LCD Display (Reception Frequency)	TUNE ◀/▶ Button	150kHz
				Output L or R ch, VTVM & Oscilloscope	L254 & L255	Max. Output

5. Cassette Deck Adjustment

- (1) Before this adjustment, clean PLAYBACK head surface.
- (2) For this adjustment, use test tape MTT-114.
- (3) VOLUME.....Center
- (4) BALANCECenter
- (5) TREBLE/BASSCenter
- (6) Connect as shown in figure 6.

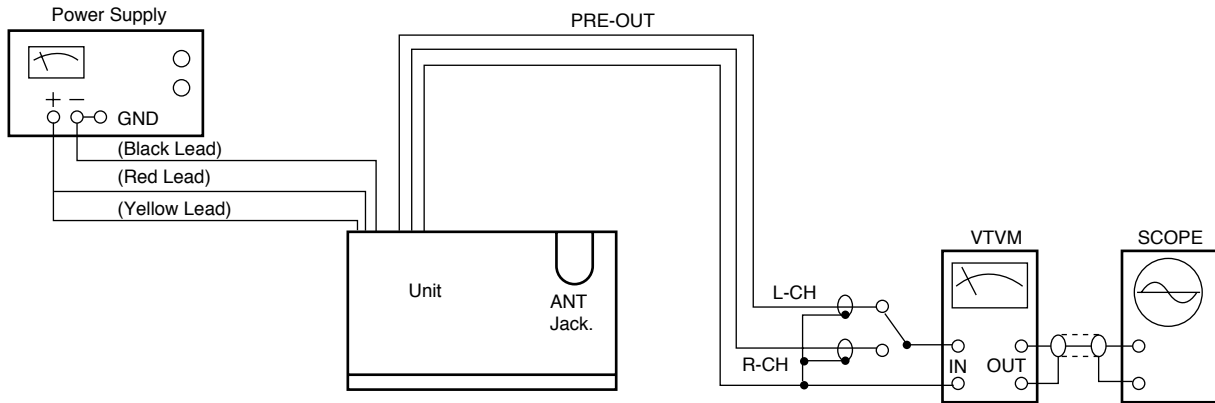
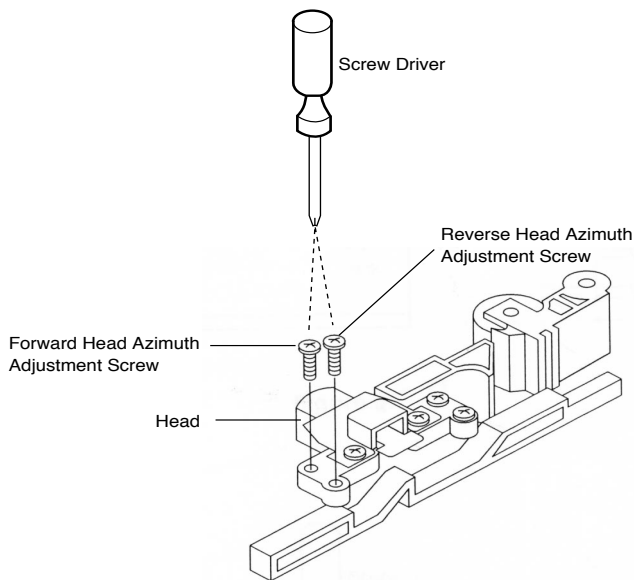


Figure 6.

■ TCC-2510/2515



■ TCC-2010

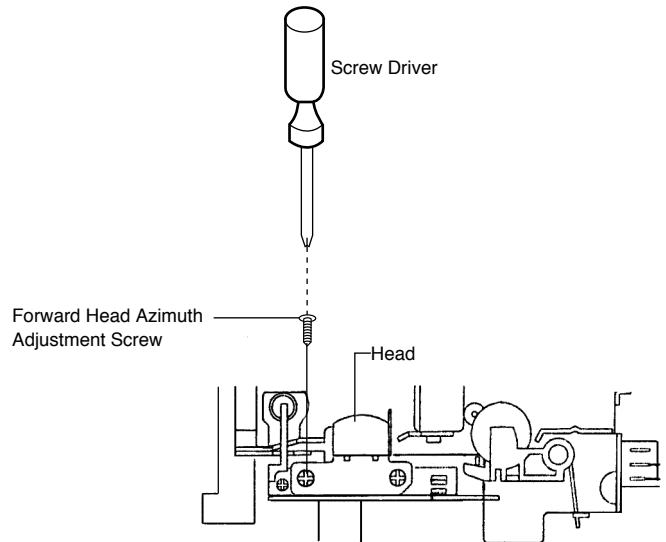
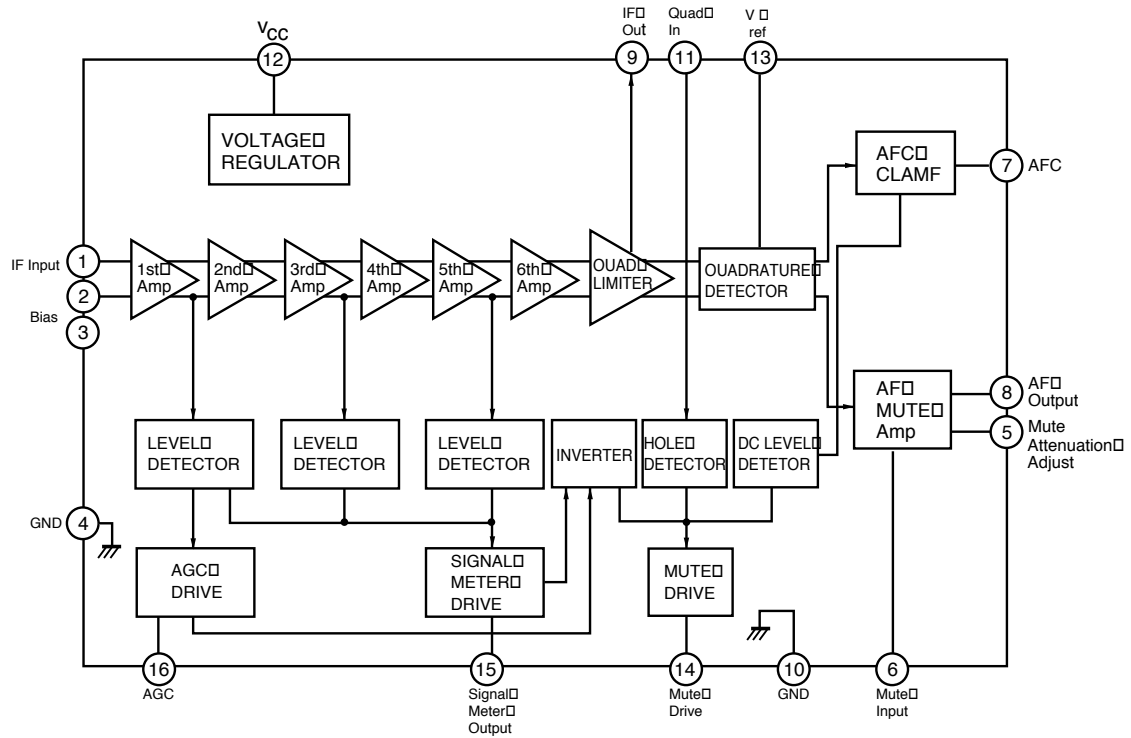


Figure 7.

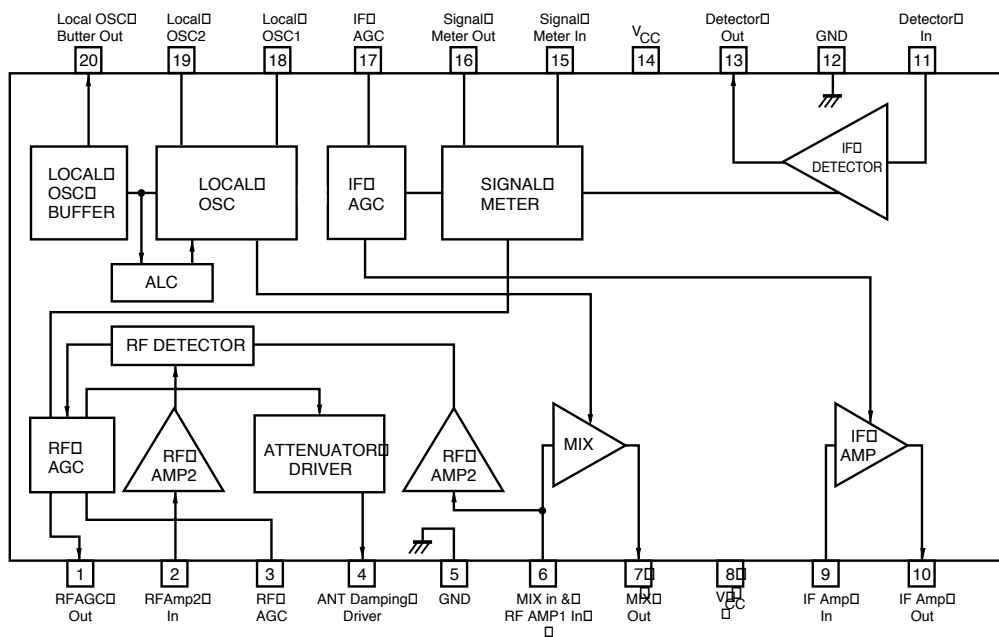
SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
P.B. Head Adjustment	L-CH, R-CH, VTVM and Scope See figure 6.	Playback the TEST TAPE MTT-114	Adjust the azimuth adjusting screw (in figure 7).	MAX. Output both channels on play	After this adjustment, lock the screw with paint.

5. INTERNAL BLOCK DIAGRAM OF ICS

■ IC101 DBL 1018 (FM IF)



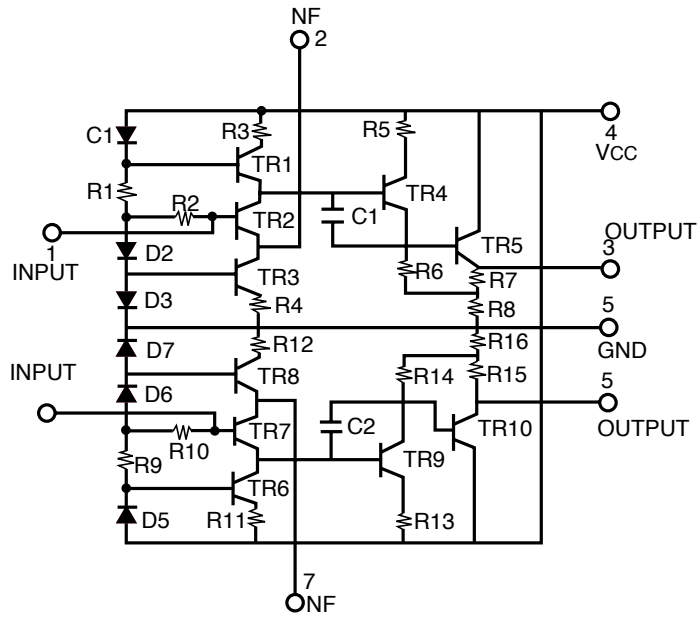
■ IC201 DBL 1019 (MW RF & IF)



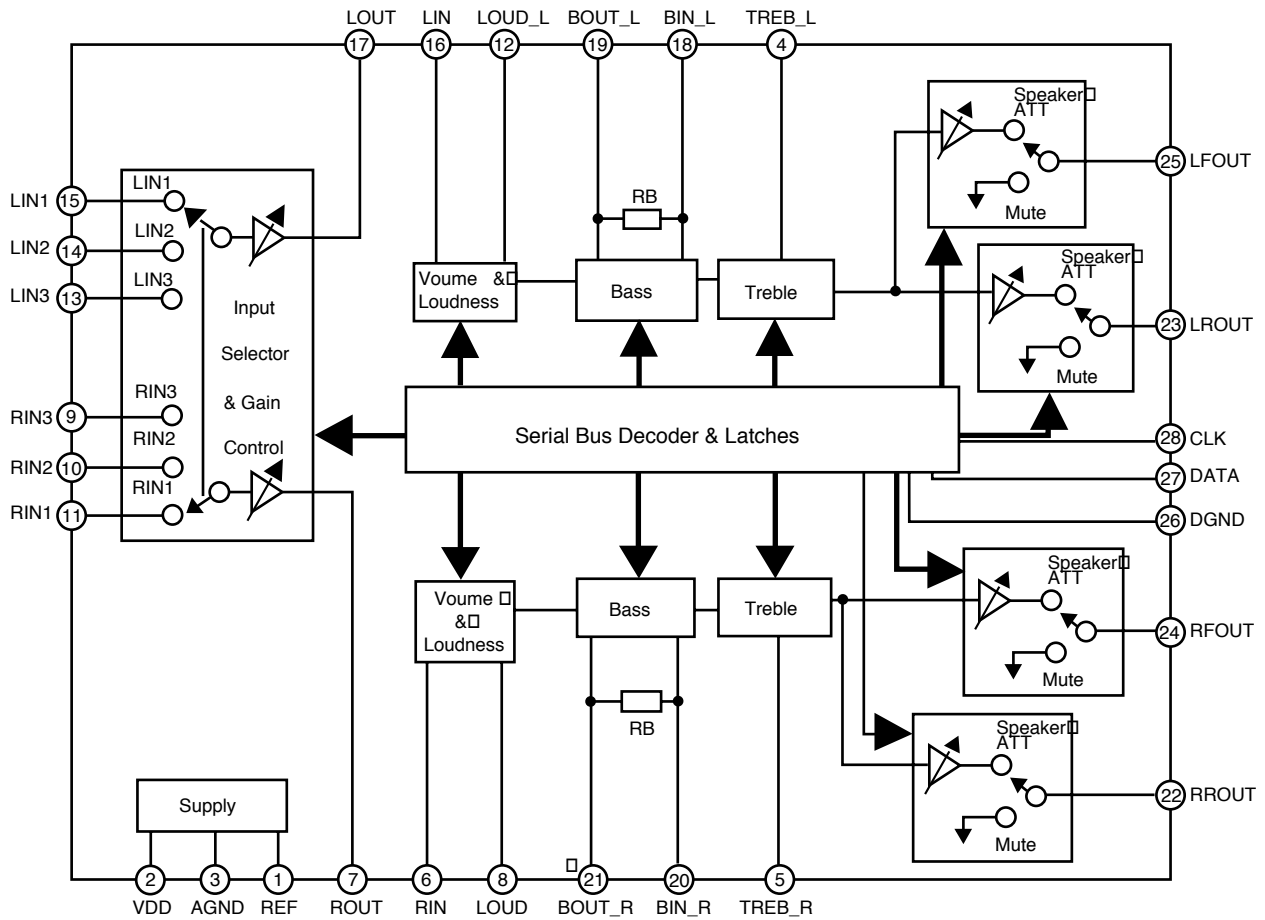
■ IC402 ㉿PD789104 (㉿-COM)

PIN	Port	P-NAME	I/O	Act	DESCRIPTION	When not used	REMARK
1	P23	FRTCLK	O I		FRONT IC CLOCK Data OUTPUT DIODE MATRIX as DIO IN2 line		
2	P24	ACC IN	I		ACC DETECT INPUT ACTIVE = LOW		
3	P25	CDC DI	I	L	CD CHANGER DATA INPUT		
4		Avdd			A/D Reference Voltage (5V)		
5	P60	KEYIN	I		AD KEY -IN input. Used for also front panel detecting . Less than 0.17V : regarded as the panel opened. Refer to application circuit.		
6	P61	DIR	I	H/L	TAPE DIRECTION INPUT (H = FORWARD)		
7	P62	SD			Tuner SEEK stop detector input - Seek Stop threshold voltage : AM : 1.2V FM :1.5V		
8	P63	STIN	I	L	FM Stereo detect input Active = Low		
9		AVSS			GROUND		
10		NC			NO CONNECTION		
11	P50	CDCO	O		CDC Data Output : Should be connected to CDCI		
12	P51	PEVDATA	O		E VR Cmmunication DATA OUT		
13	P52	MUTE/LED	O		Used as Power IC mute. Active = Low Used as blinking LED. On duty = 10%		
14	P53	TPMUTE	I	L	TAPE MUTE INPUT (LOW = MUTE)		
15	P00	FRTDO/ DIO IN0	O I		FRONT IC DATA Out communication port Diode matrix IN0 input		
16	P01	CDON	O	H	When CDC mode this port is high output (future function)		
17	P02	POWER	O	H	When system is on , this port is used as power out port port		
18	P03	TAPE IN	I	H	For tape mode , Active high voltage should be applied. L = RADIO mode .		
19		RESET			RESET INPUT		
20		IC			Connect to GROUND		
21		NC			NO CONNECTION		
22		X2			X-tal		
23		X1			X-tal		
24		Vss			System ground		
25		Vdd			System Power Supply (5V)		
26	P10	FINH	O	L	Front IC INH port .		
27	P11	PERI/ DIO OUT2	O O		PLL IC PERIODE communication port Diode matrix DIO OUT 2 line		
28	P20	PEVCLK DIO OUT0	O O		PLL IC and E .VOL IC CLOCK communication port Diode matrix DIO OUT 0 line		
29	P21	PDATA DIO OUT1	O O		PLL IC DATA communication port Diode matrix: DIO OUT 1 line		
30	P22	FRTCE DIO IN1	O I		FRONT IC CE communication port Diode matrix DIO IN 1 line		

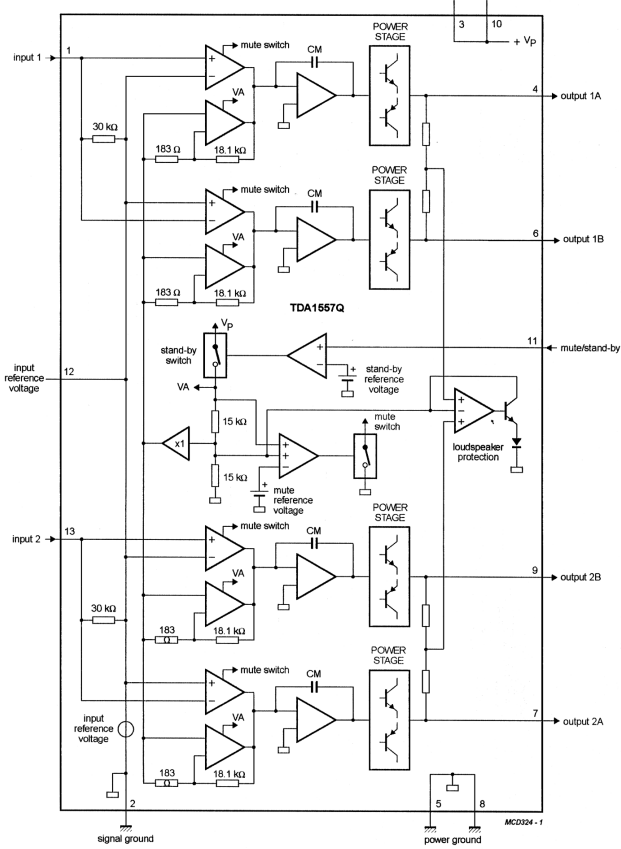
■ IC501 LA3160 (EQ Amp.)



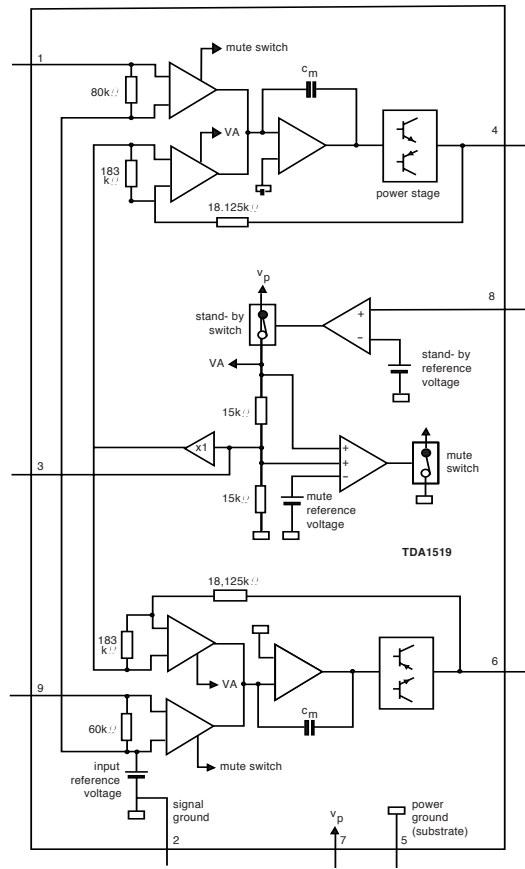
■ IC601 PT2313L (Electronic Volume)



■ IC801 TDA1557Q
(TCC-2510/2515, Power Amp.)



■ IC801 TDA1519 (TCC-2010, Power Amp.)



■ IC901 LC75833E (LCD Driver)

