

Service Manual

Car Audio

Model : AKF-8035A/E Series

AKF-8045

AKF-8047X

AKF-8025E Series

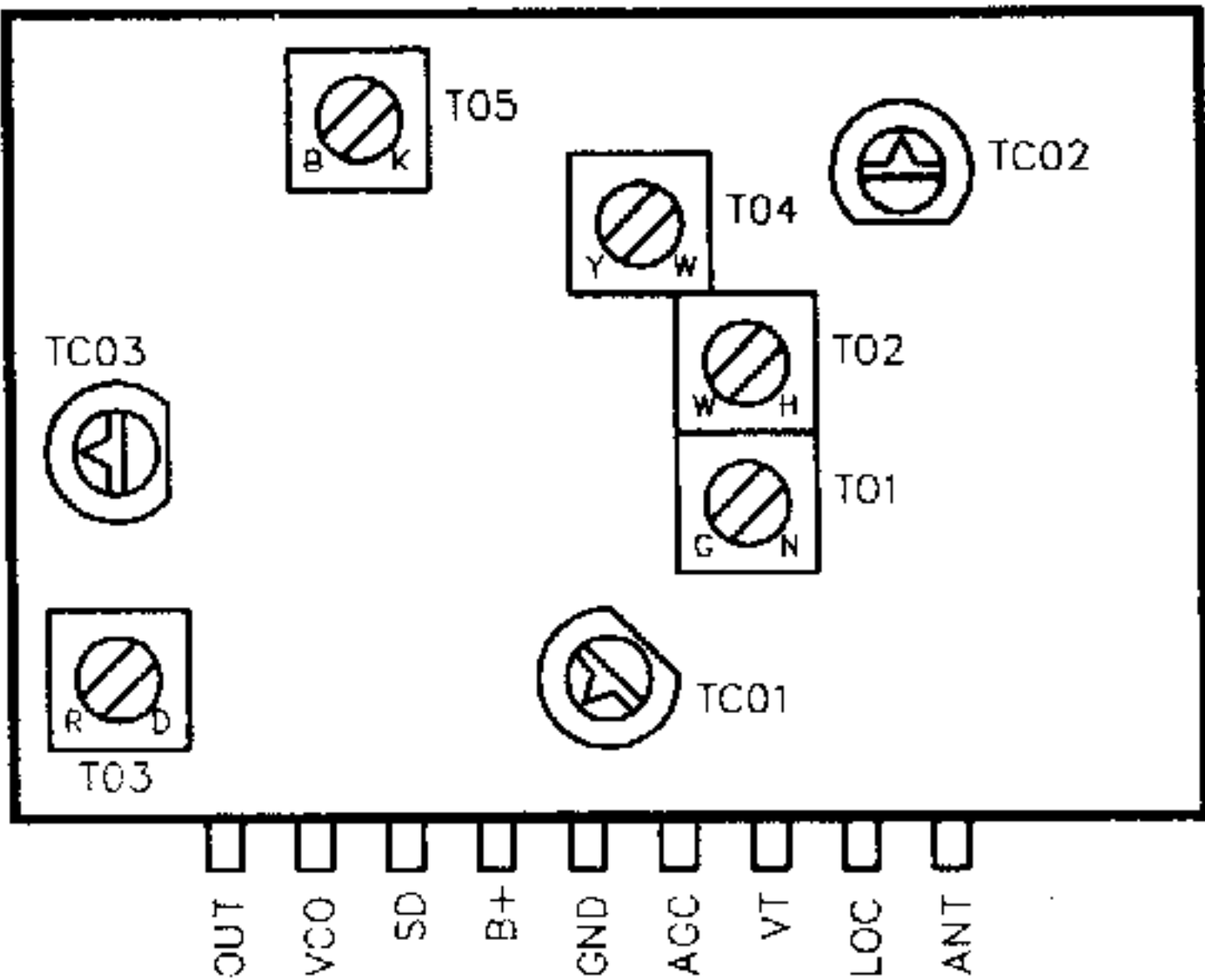
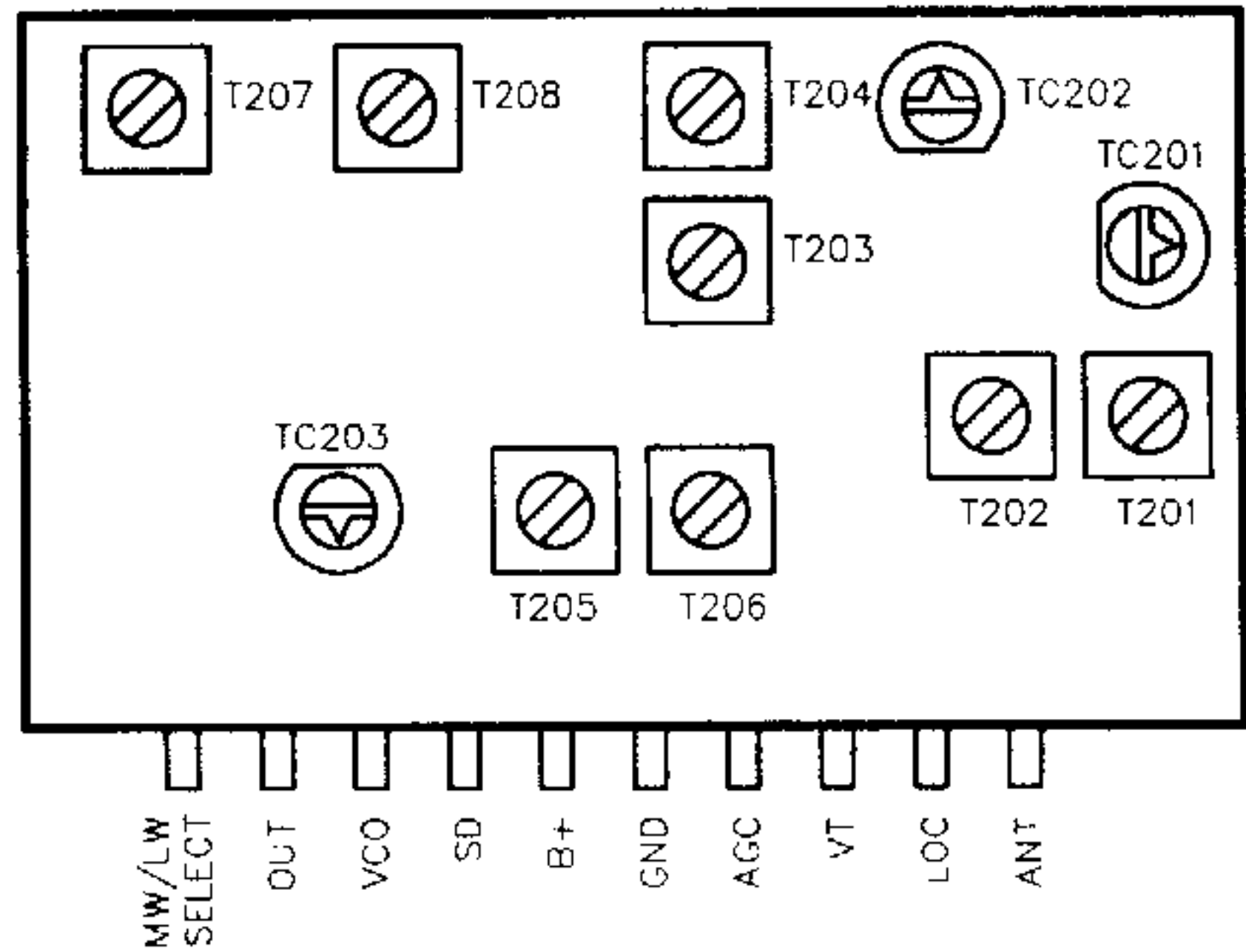
* OPTION : CD CHANGER CONTROL

Caution

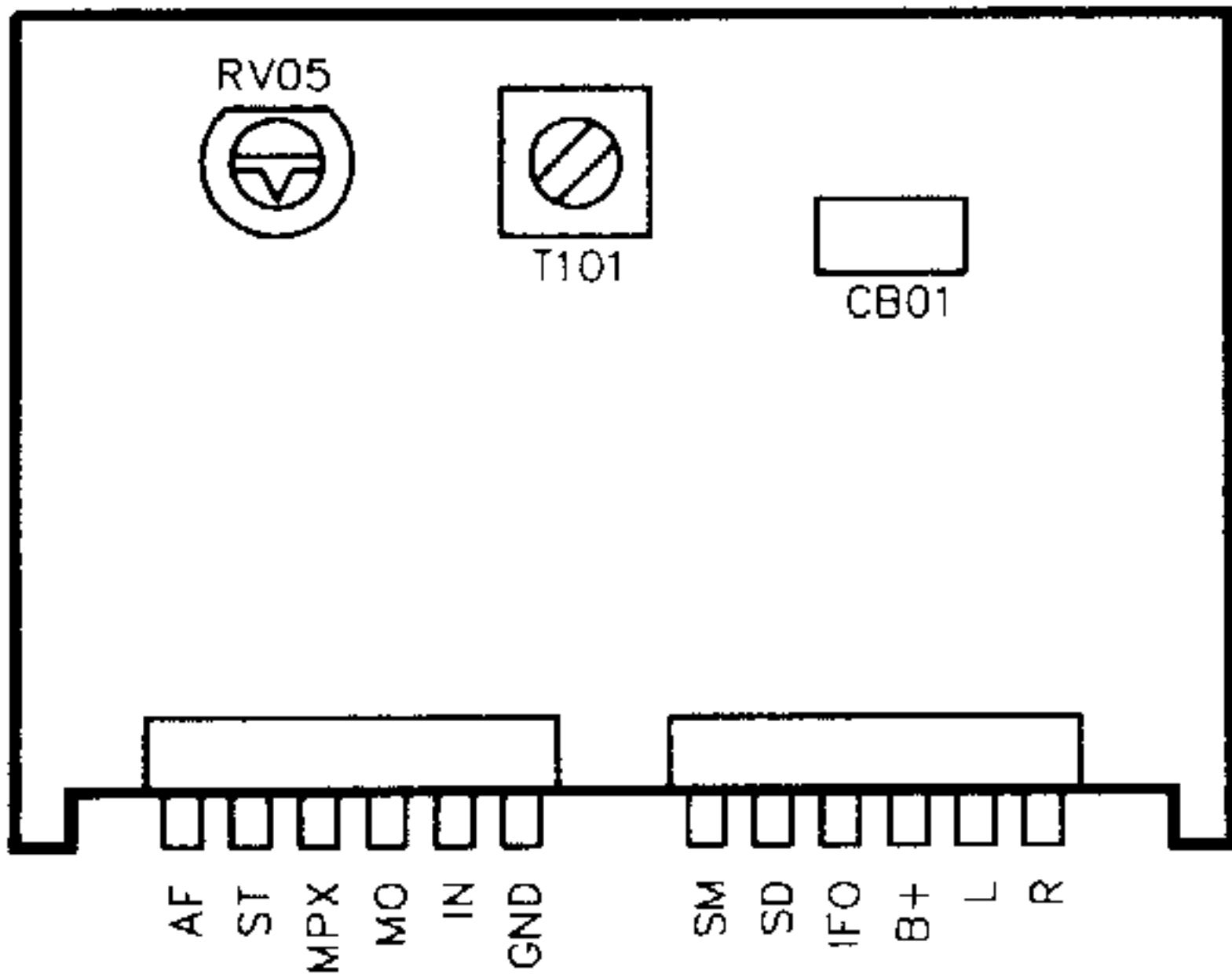
: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center.

■ ADJUSTMENT LOCATIONS

■ MW/LW RF BOARD



■ IF/MPX RF BOARD

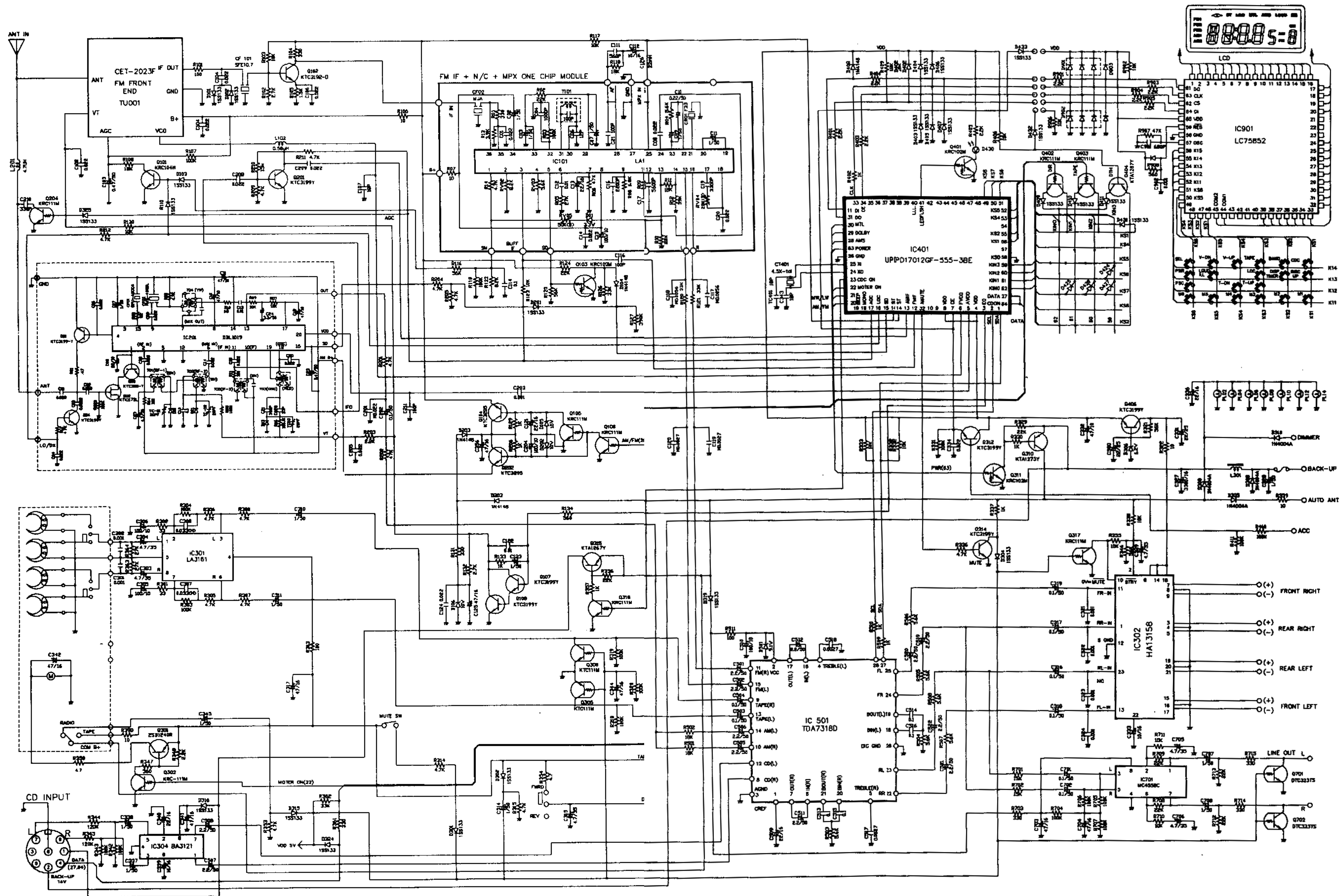


[Fig. 7]

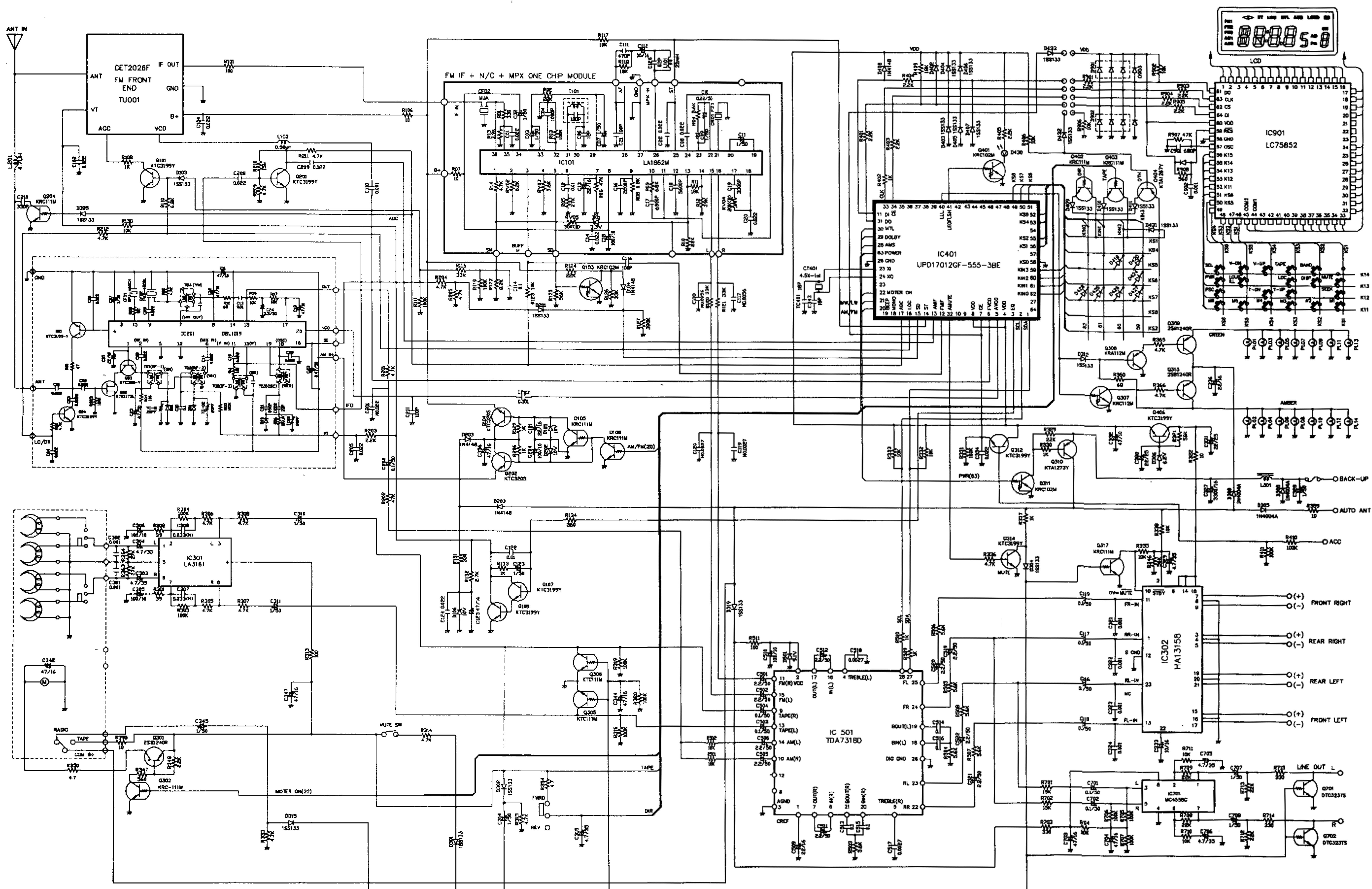
3. SCHEMATIC DIAGRAM

1 AKF-8035/45 SERIES

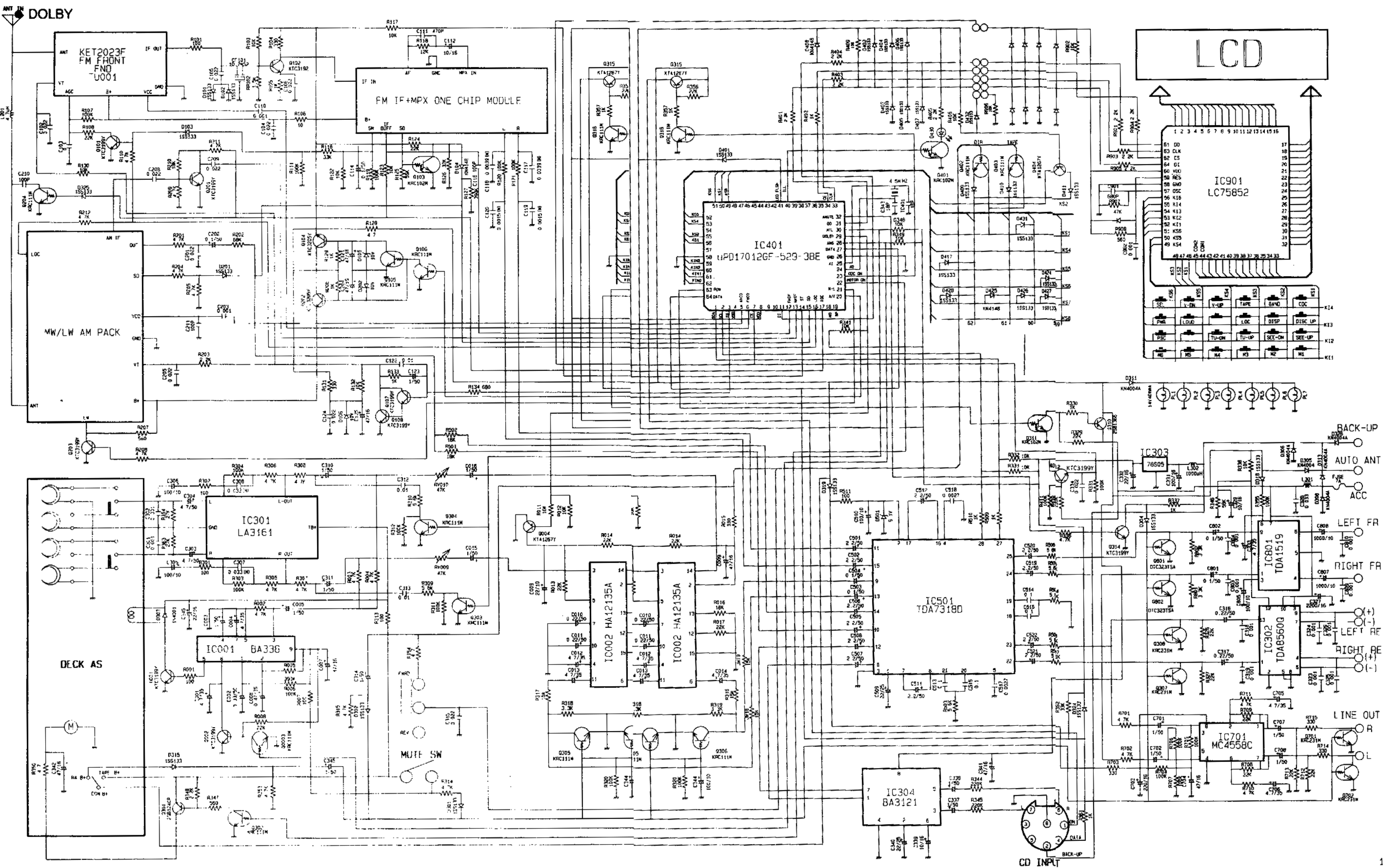
●TUNER : CET-2023F



● TUNER : CET-2026F







7. FUNCTION OF IC

■ LC75853 (CONFIGURATION OF KEY MATRIX)

IN	OUT	KS1	KS2	KS3	KS4	KS5	KS6
KI1		M1 (MTL)	M2	M3 (AMS)	M4 (REPEAT)	M5 (RANDOM)	M6 (INTRO)
KI2		SEEK UP	SEEK DOWN	TUNING UP (TRACK UP) (HOUR UP)	TUNING DWN (TRACK DWN) (MINUTE DWN)	OIRT	AUTO MEMO PRESET SCAN
KI3		DISC UP (MUTE)	DISP	LOC	ST / MO	LOUD (ILL.)	POWER ON / OFF
KI4		CD PLY/PAUS (AUX IN)	BAND	TAPE	VOLUME UP	VOLUME DWN	EVR SELECT

♣ () : Double Function

■ uPD17012GF

♣ OPTION DIODE & SWITCHING TR MATRIX

IN	OUT	KD0	KD1	KD2	KD3	
KS1		DIR ■	TAPE IN ■	TEL ON ■	-	TR SWITCH
KS2		DTH ■	-	-	-	
KS3		-	-	-	-	
KS4					-	OPTION DIODE
KS5		(D417) LW	(D418) TAPE KEY USE	(D419) 2 COLOR	(D420) CDC/AUX IN	
KS6		(D421) DOUBLE 1	(D422) DOUBLE 2	(D423) 12/24 HOUR	(D424) CLOCK USE	
KS7		(D428) AUTO 500	-	-	(D427) OIRT	

■ DIODE MATRIX DESCRIPTIONS

AREA	ITEM BAND	RECEIVING FREQUENCY	CHANNEL SPACING	INTERMEDIATE FREQUENCY
Europe	FM	87.5 to 108MHz	50 kHz	10.7 MHz
	MW	522 to 1620kHz	9 kHz	450 kHz
	LW	153 to 281kHz	1 kHz	450 kHz
OIRT	FM	65.0 to 74MHz	30 kHz	10.7 MHz

- ▶ LW select (D417)

0 : LW BAND DISABLE
1 : LW BAND ENABLE
- ▶ 2 Color select (D419)
(LOUD KEY)

0 : 2 COLOR ILLUMINATION DISABLE
1 : 2 COLOR ILLUMINATION ENABLE (DOUBLE FUNCTION)
- ▶ CDC/AUX IN select (D420)
(CDC KEY)

0 : CDC MODE
1 : AUX IN MODE
- ▶ DOUBLE 1,2 select

SYMBOL	DESCRIPTION																				
DOUBLE 1 (D421)	<table><tr><th>DOUBLE 1</th><th>DOUBLE 2</th><th>MTL</th><th>DOLBY</th><th>AMS</th></tr><tr><td>0</td><td>1</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1</td><td>0</td><td>0</td><td>-</td><td>-</td></tr><tr><td>1</td><td>1</td><td>0</td><td>-</td><td>0</td></tr></table>	DOUBLE 1	DOUBLE 2	MTL	DOLBY	AMS	0	1	-	-	-	1	0	0	-	-	1	1	0	-	0
DOUBLE 1		DOUBLE 2	MTL	DOLBY	AMS																
0		1	-	-	-																
1		0	0	-	-																
1		1	0	-	0																
DOUBLE 2 (D422)																					

- ▶ 12/24 HOUR select (D423)

0 : 24 HOUT MODE
1 : 12 HOUR MODE
- ▶ CLOCK USE select (D424)

0 : CLOCK FUNCTION DISABLE
1 : CLOCK FUNCTION ENABLE
- ▶ AUTO 500 select (D428)

0 : Manual tuning and auto-tuning. Frequency is incremented or decremented by one channel each time the switch pressed. Automatic tuning (seek) begins with the next channel when the key is pressed for 0.5 seconds or longer.

1 : Manual tuning only. Frequency is incremented or decremented by one channel each time the switch is pressed. Tuning is manually fast-forwarded when it is held pressed for 0.5 seconds or longer.
- ▶ OIRT (D427)

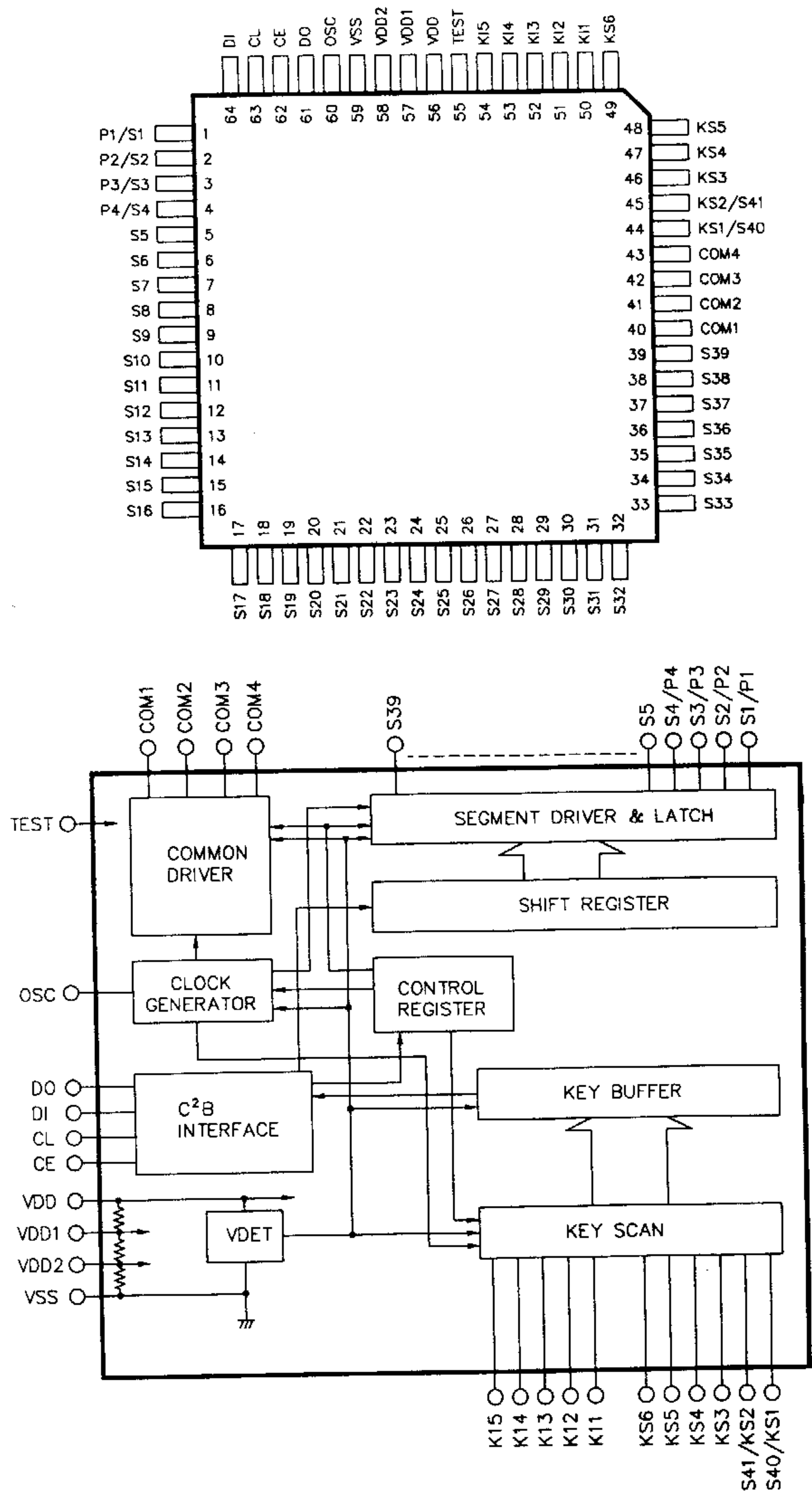
0 : FM I → FM II → FM III → MW → LW
1 : FM I → FM II → FM III → *OIRT → MW → LW

↕
↕

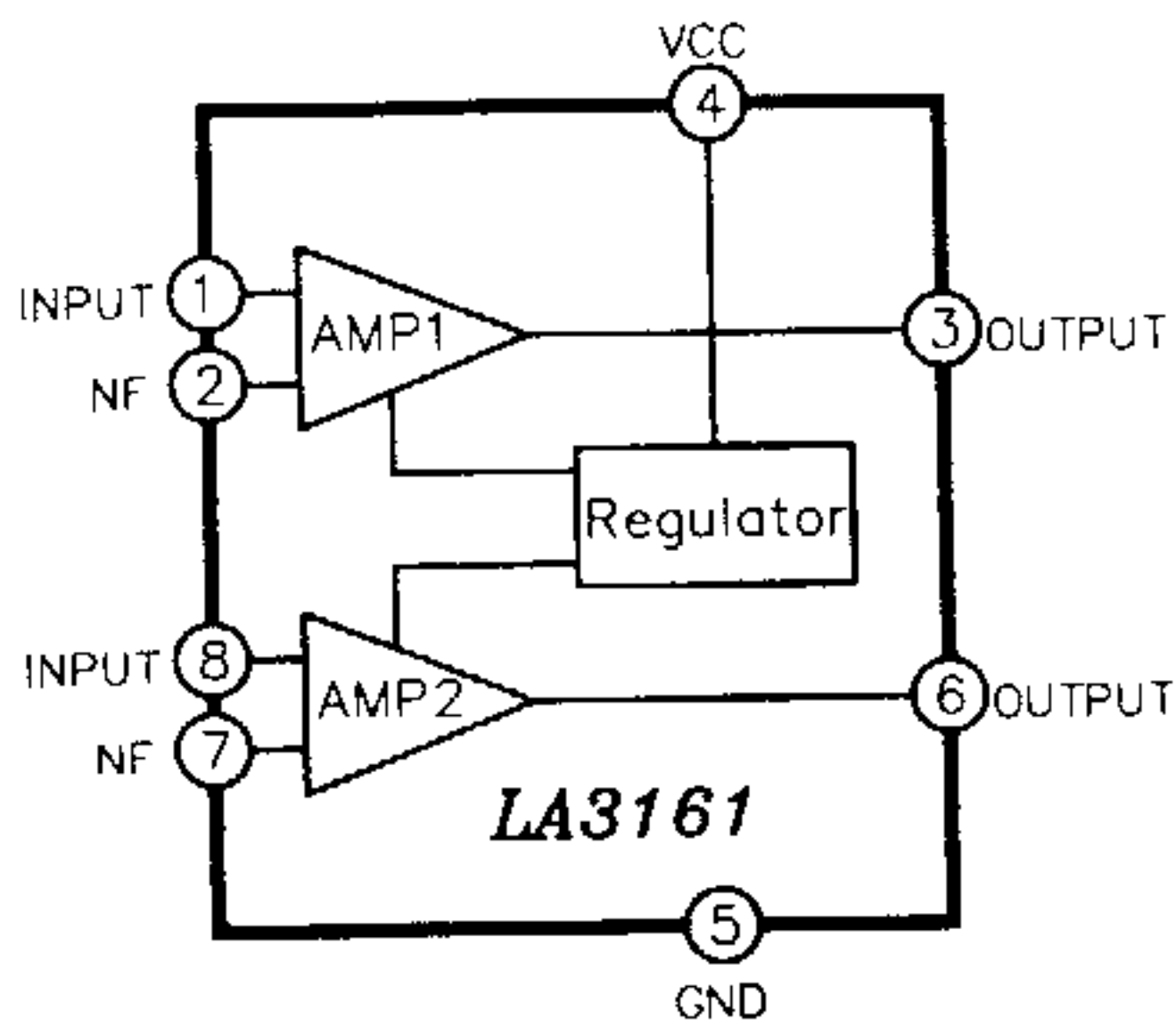
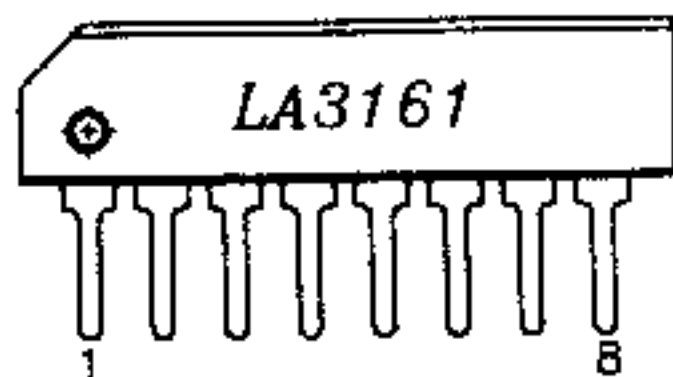
option diode D417 include

8. IC BLOCK DIAGRAM

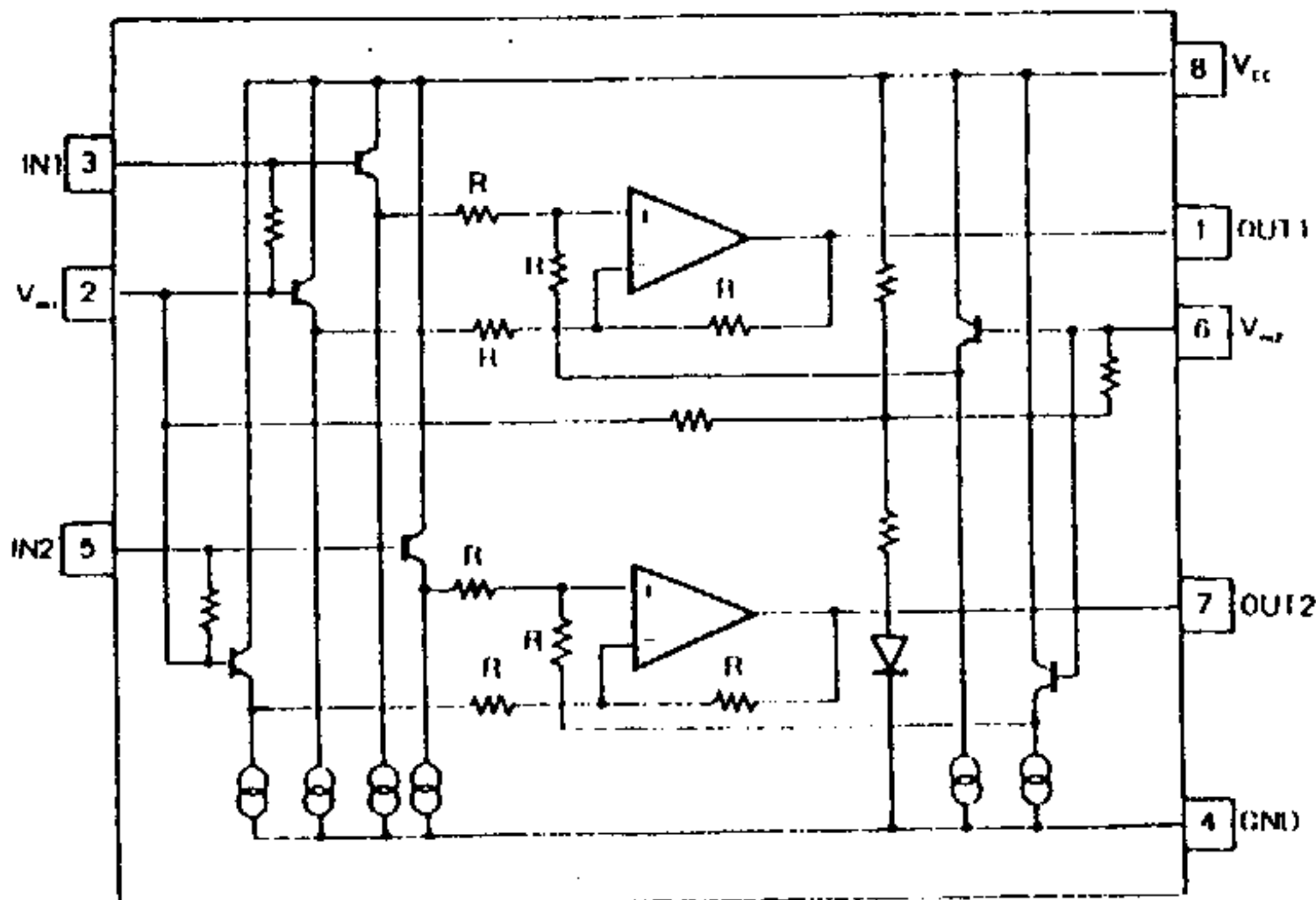
■ LC75852 (IC LCD DRIVER) : IC901



■ LA3161 (TAPE PRE-AMP) : IC301

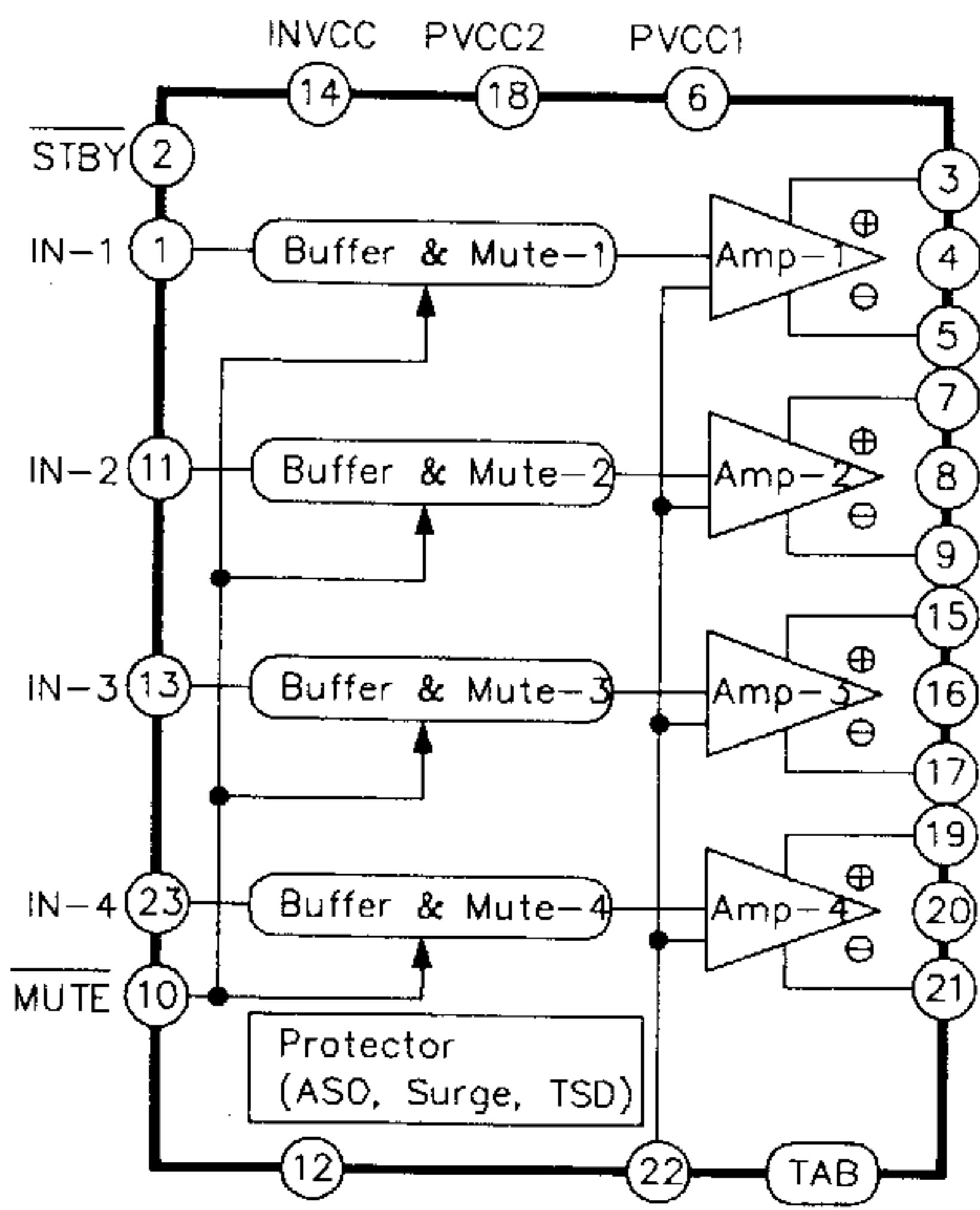


■ BA3121 (IC ISOLATOR) : IC304 • AKF-8025 SERIES

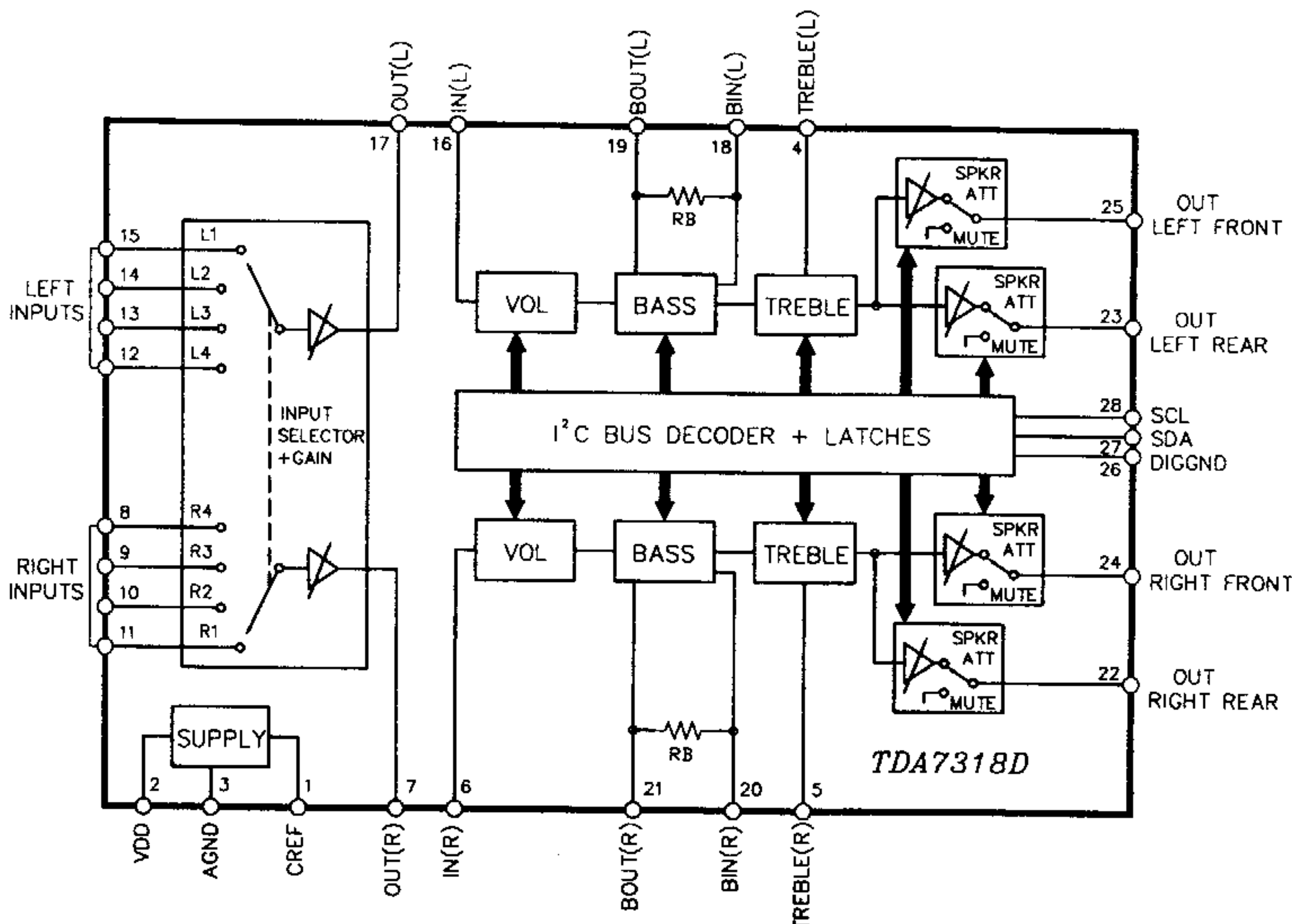


IC BLOCK DIAGRAM

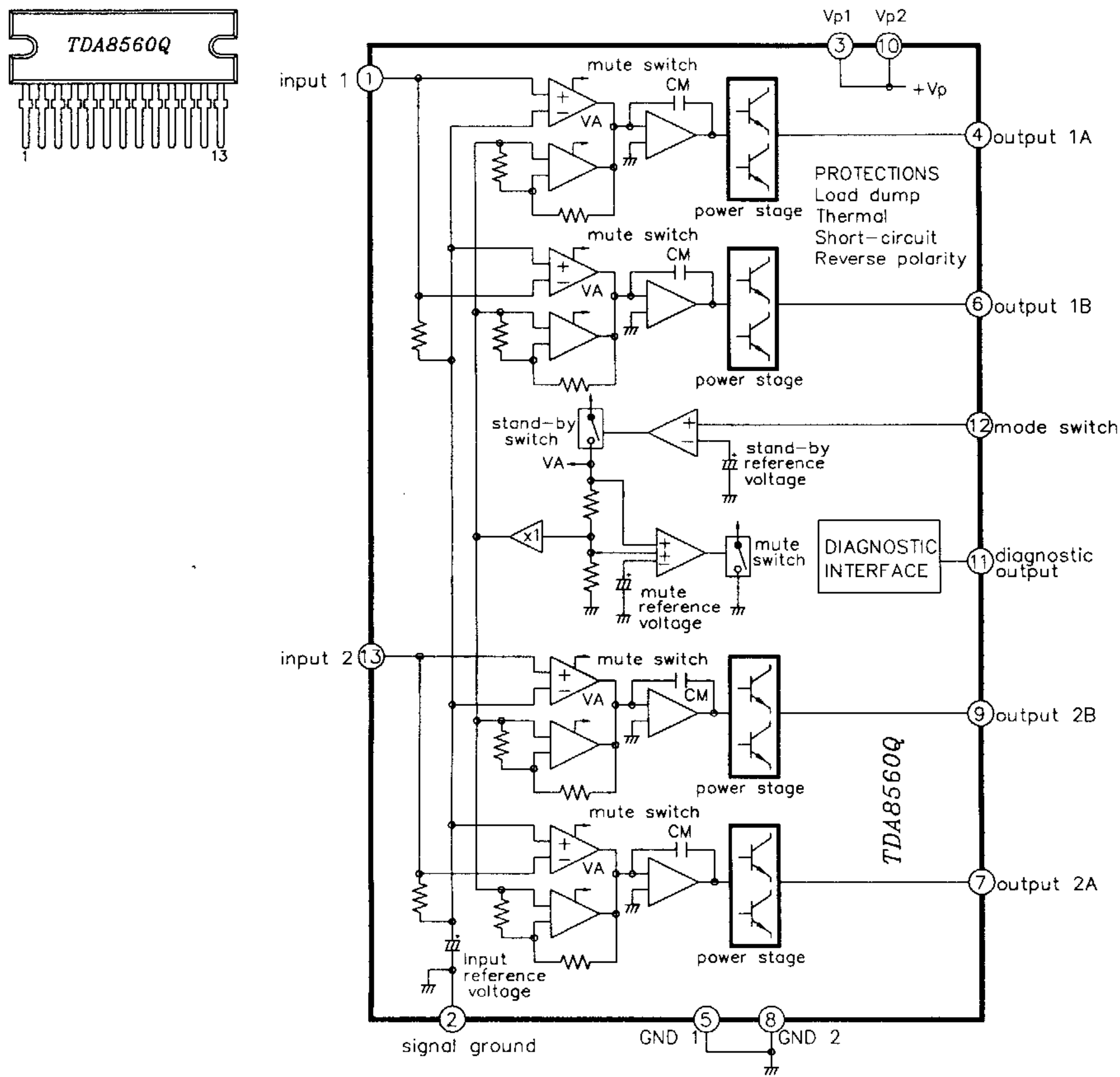
4 HA13158A (IC AUDIO POWER): IC302 • AKF-8035/8045 SERIES



5 TDA7318D (IC AUDIO CONTROL): IC501

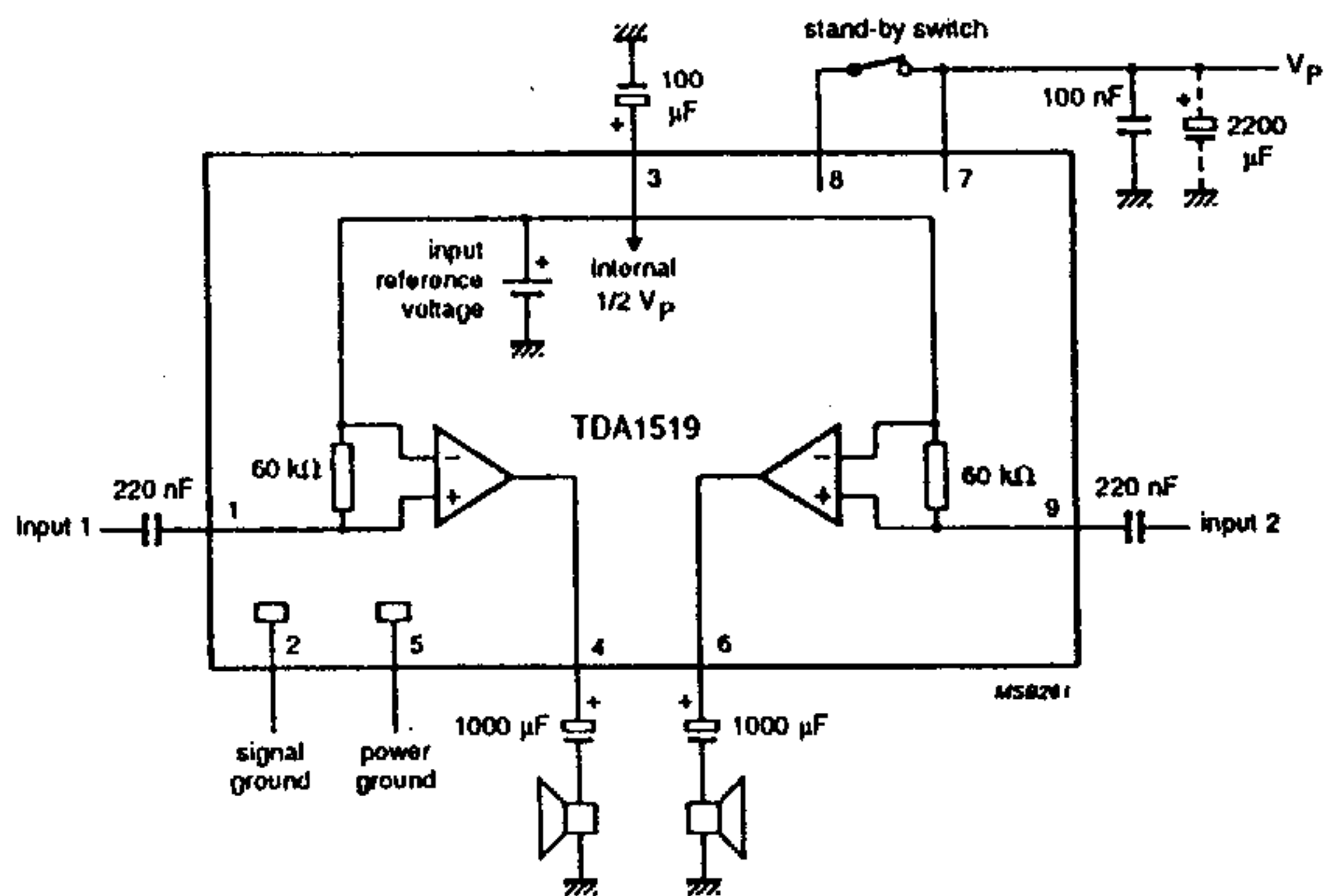


TDA8560Q (IC AUDIO POWER) : IC302 * 8025 SERIES

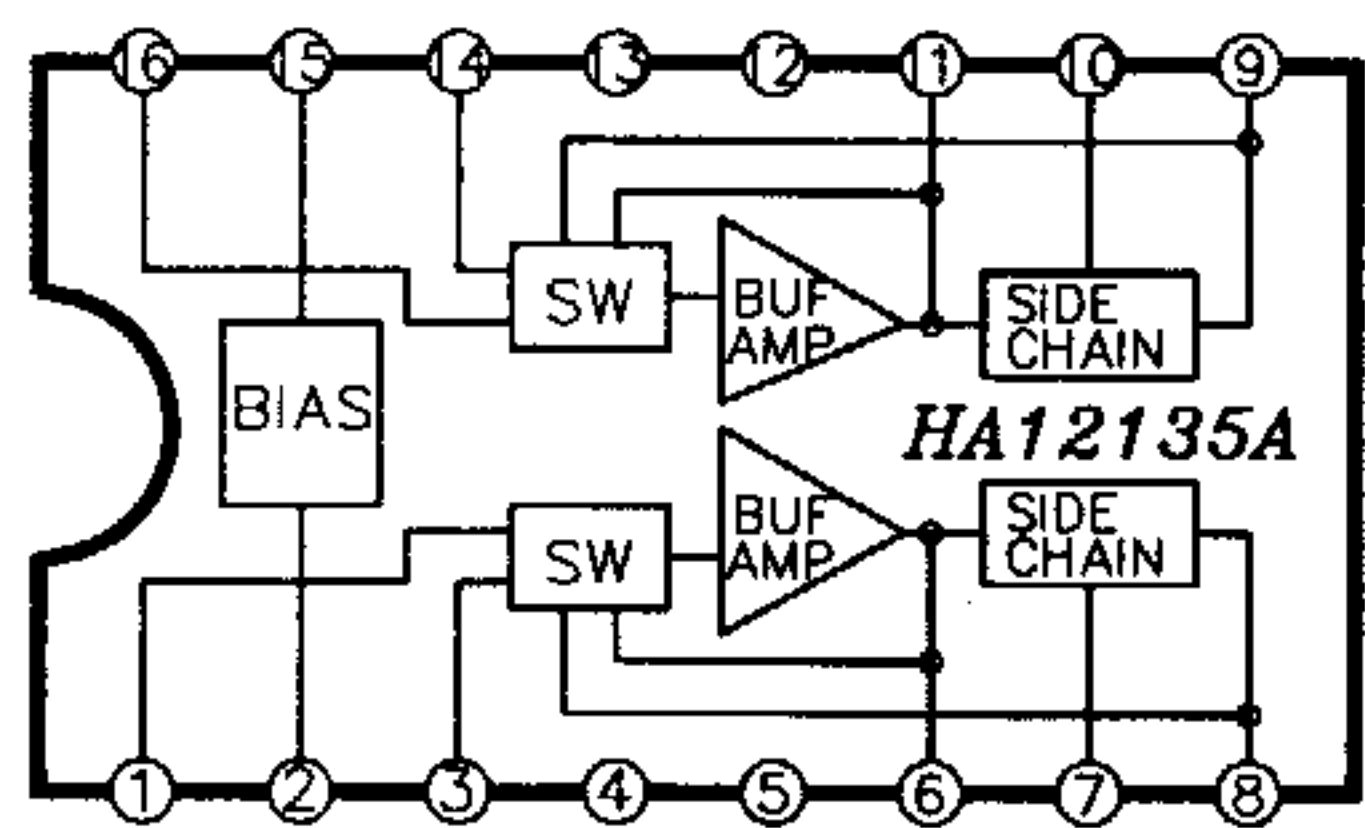


IC BLOCK DIAGRAM

■ TDA1519 (IC AUDIO POWER) : IC801 * AKF-8025 SERIES



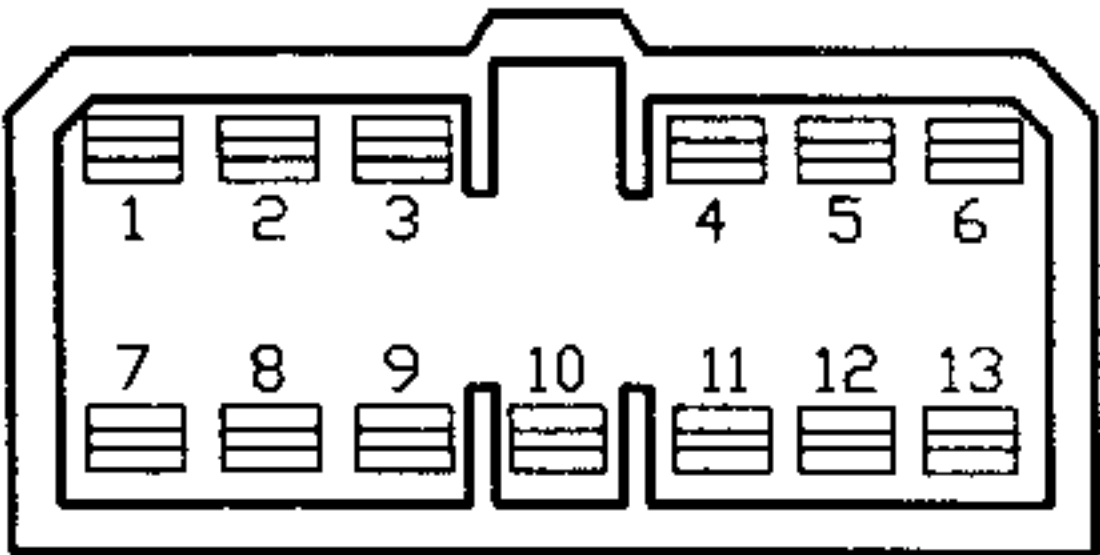
■ HA12135A (IC AUDIO DOLBY) * AKF-8025 SERIES



10. OUTPUT CONNECTOR DESCRIPTIONS

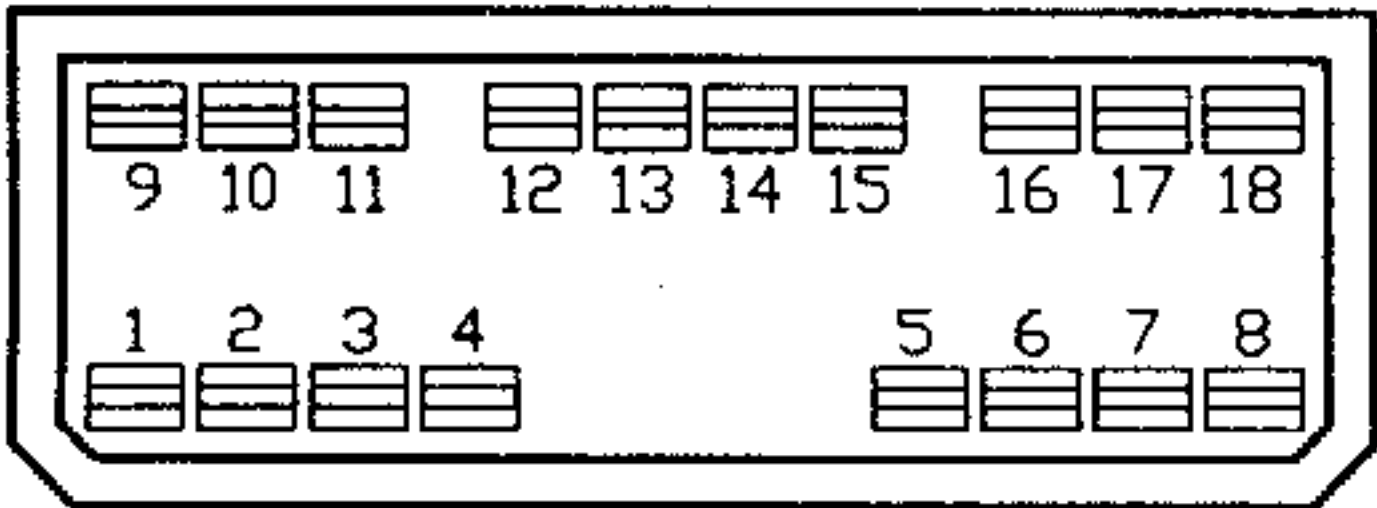
1. OUTPUT CONNECTORS

• 13PIN CONNECTOR



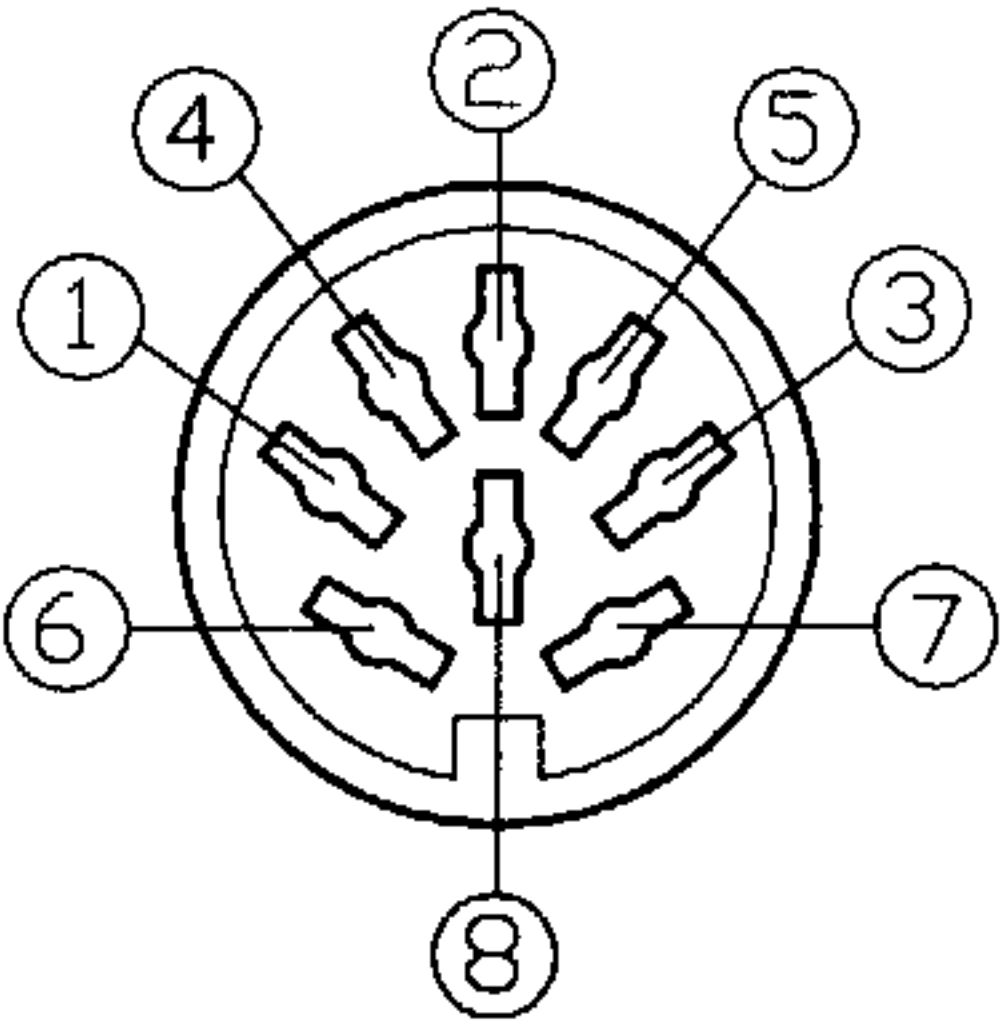
1	REAR LEFT SP(-)	8	REAR RIGHT SP (+)
2	REAR RIGHT SP (-)	9	NEGATIVE GROUND
3	AUTO ANT	10	RLIGHT (ILLUMINATION)
4	ACC B(+) POWER	11	BATTERY B+ (BACK-UP)
5	FRONT RIGHT SP (+)	12	FRONT RIGHT SP (-)
6	FRONT LEFT SP (+)	13	FRONT LEFT SP(-)
7	REAR LEFT SP (+)		

• 18PIN CONNECTOR



1	FRONT R-CH SP (+)	7	REAR L-CH SP (+)	13	NO CONNECTION
2	REAR R-CH SP (+)	8	FRONT L-CH SP(+)	14	GROUND
3	ILLUMINATION (+)	9	FRONT R-CH SP (-)	15	NO CONNECTION
4	ACC. B(+)	10	REAR R-CH SP (-)	16	NO CONNECTION
5	BACK UP B+	11	---	17	REAR L-CH SP (-)
6	NO CONNECTON	12	AUTO ANT. B+	18	FRONT L-CH SP(-)

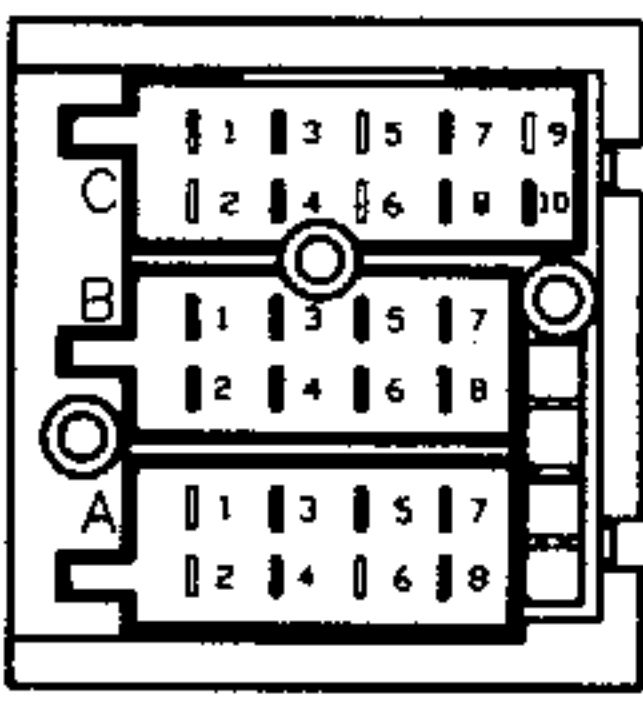
• 8PIN DIN CONNECTOR



1	CDC-ON
2	BACK-UP B+
3	NO CONNECTION
4	DATA
5	GROUND
6	R-CH
7	L-CH
8	SIGNAL GROUND

OUTPUT CONNECTOR DESCRIPTIONS

● 26PIN ISO CONNECTOR

	A	B	C
	4. yellow...back-up dc+12v 5. blue...remote dc+12v(power ant) 6. Dimmer (option) 7. red...power supply 8. black...ground	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(-)	C OTHERS 5. black...ground 6. orange...12v preamp(+) 8. red...preamp R-ch 10. white...preamp L-ch 