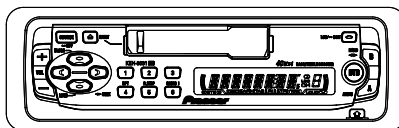


Service Manual



KEH-3031/XM/EE

ORDER NO.
CRT2978

HIGH POWER CASSETTE PLAYER WITH FM/MW/LW TUNER

KEH-3031

XM/EE

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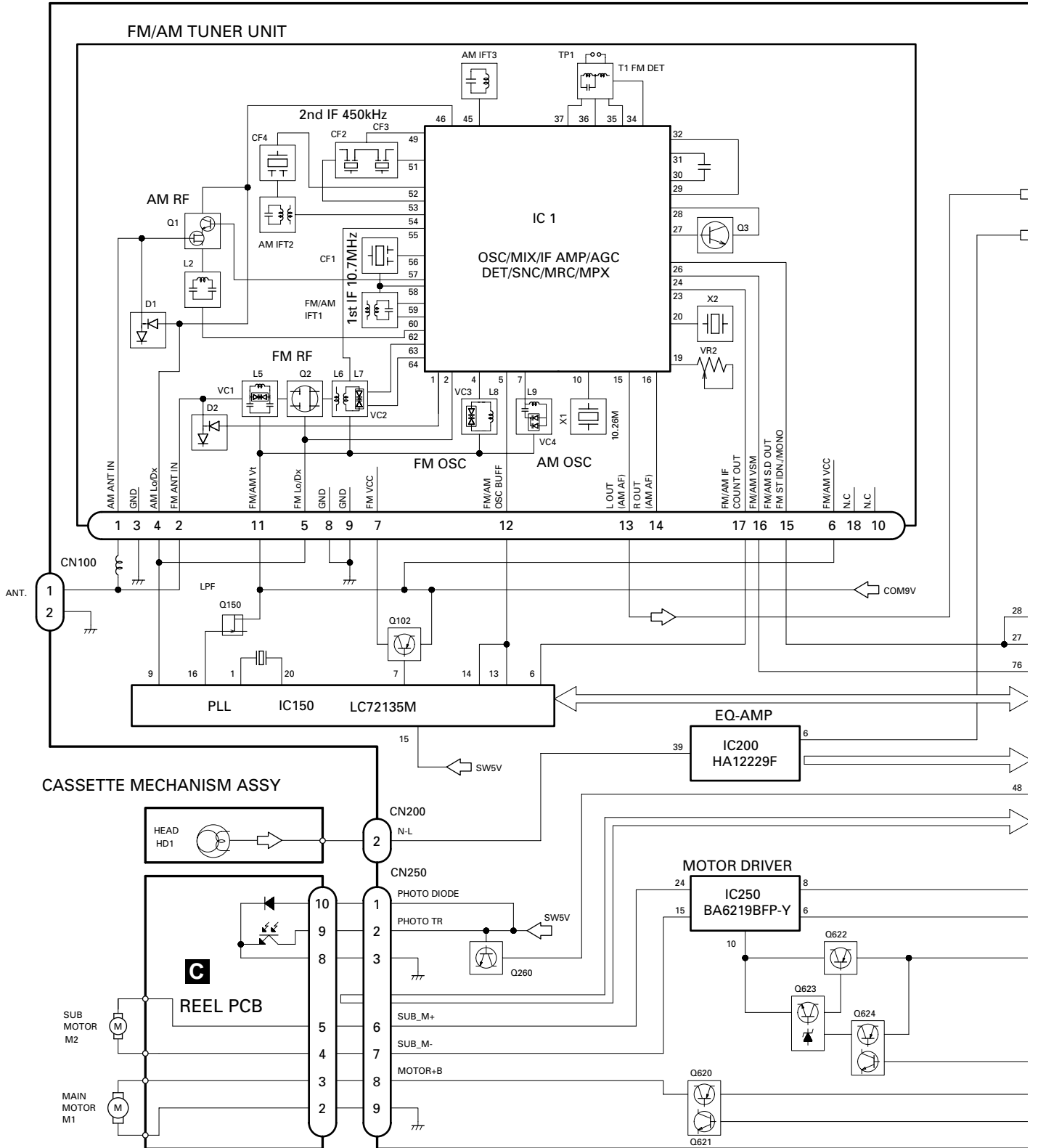
For details, refer to "Important symbols for good services".

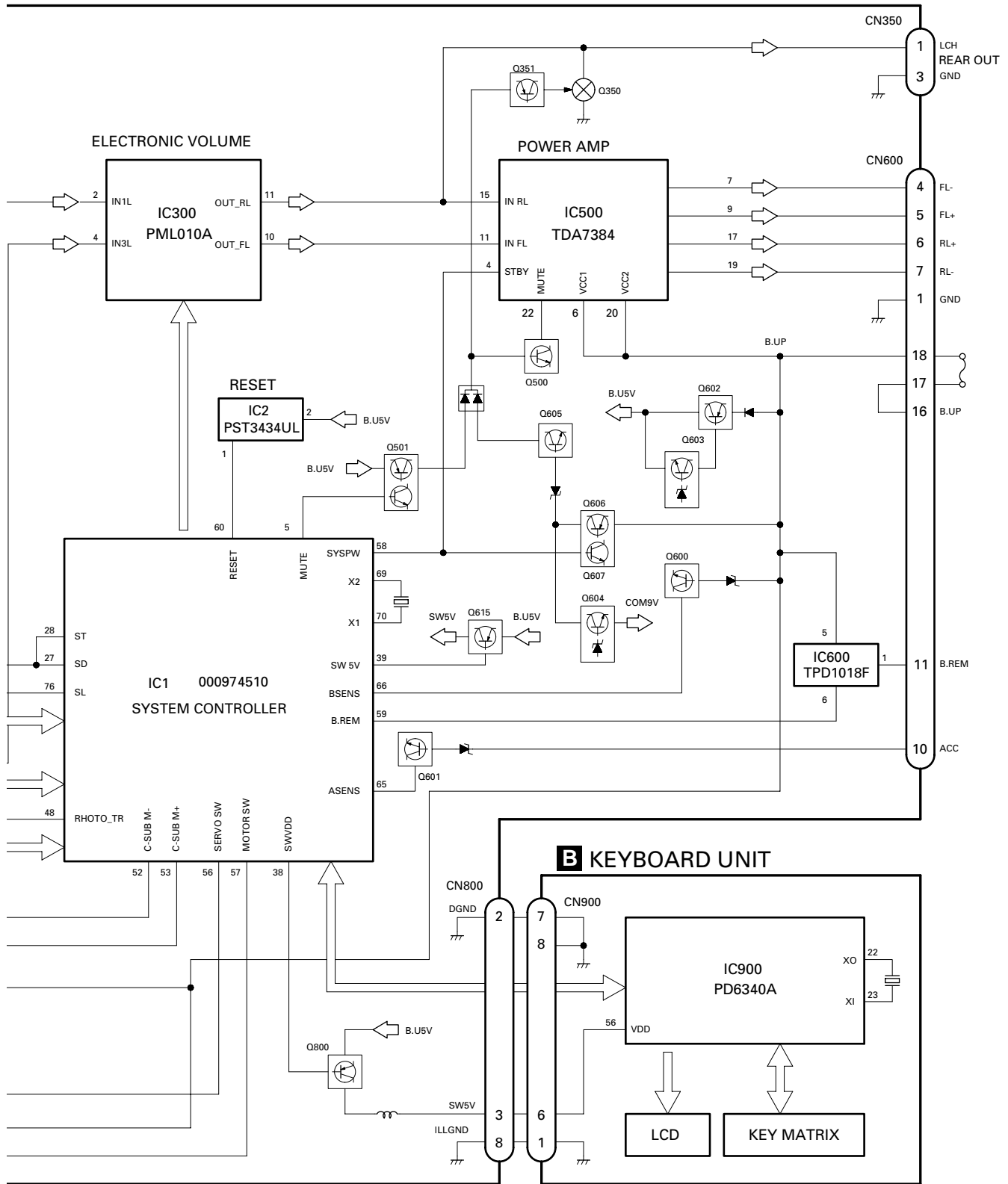
PIONEER CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.
PIONEER EUROPE NV Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 253 Alexandra Road, #04-01, Singapore 159936

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

A TUNER AMP UNIT





A

B

C

D

E

F

3.2 OVERALL CONNECTION DIAGRAM

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

A

A TUNER AMP UNIT

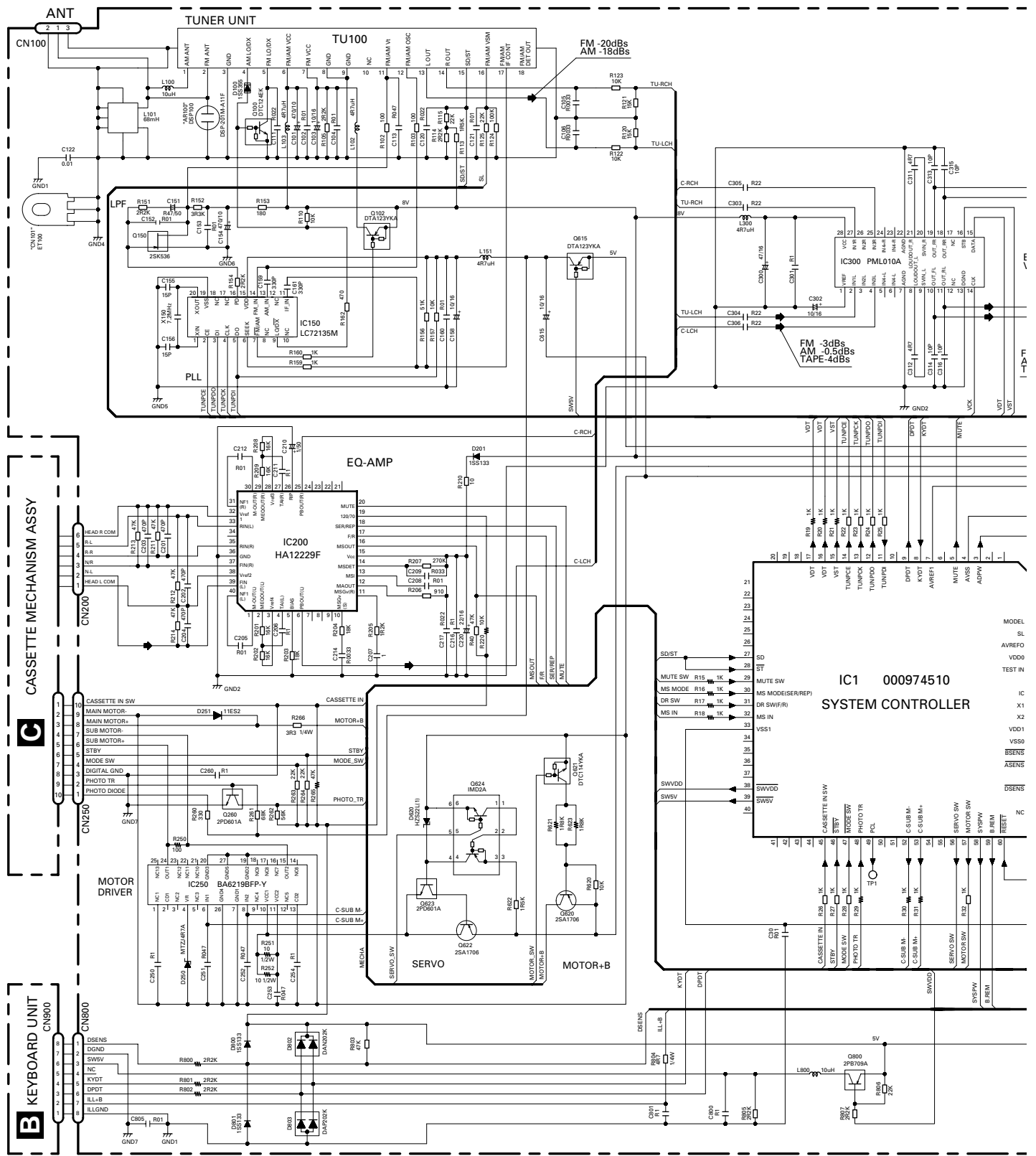
B

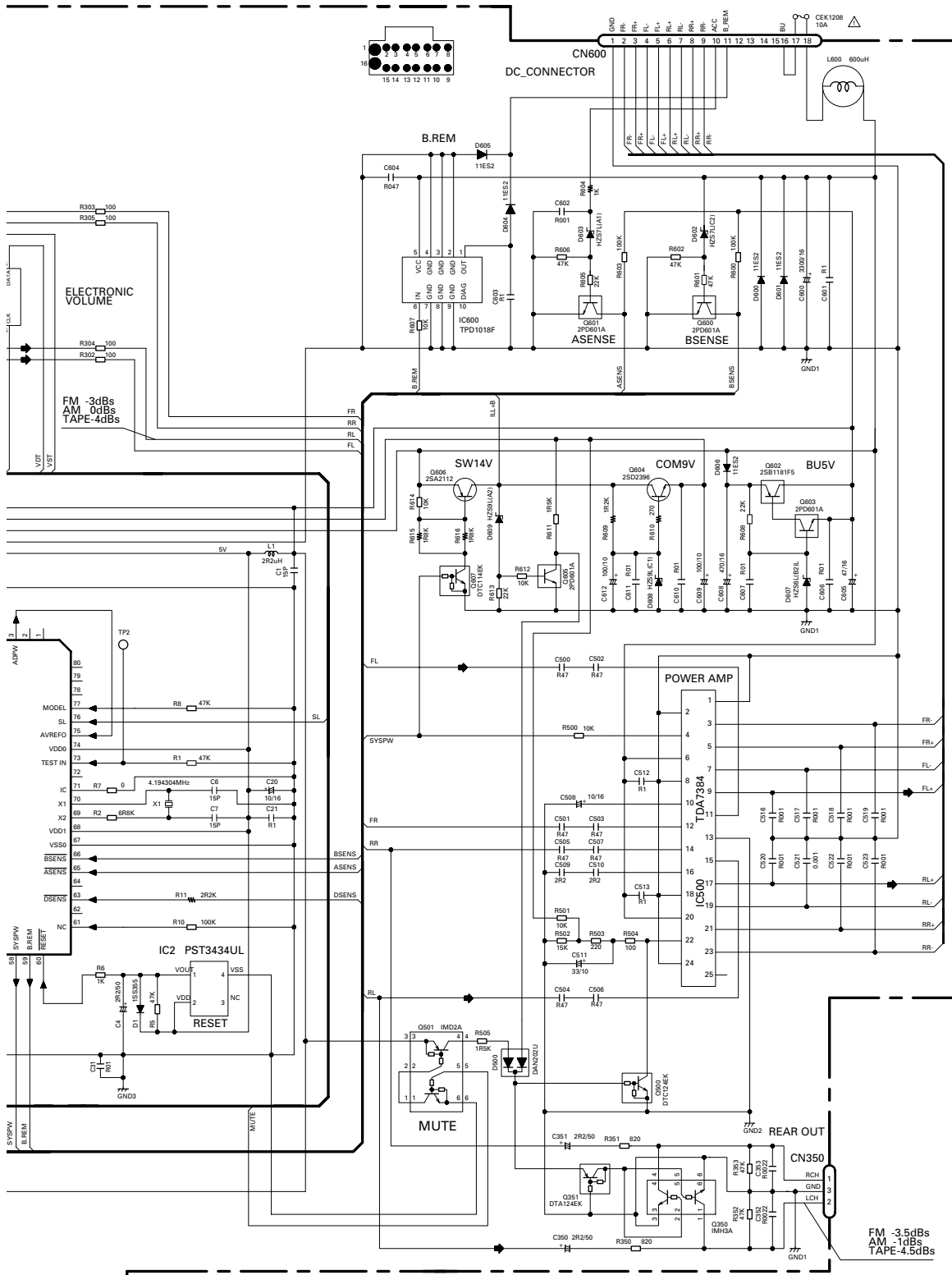
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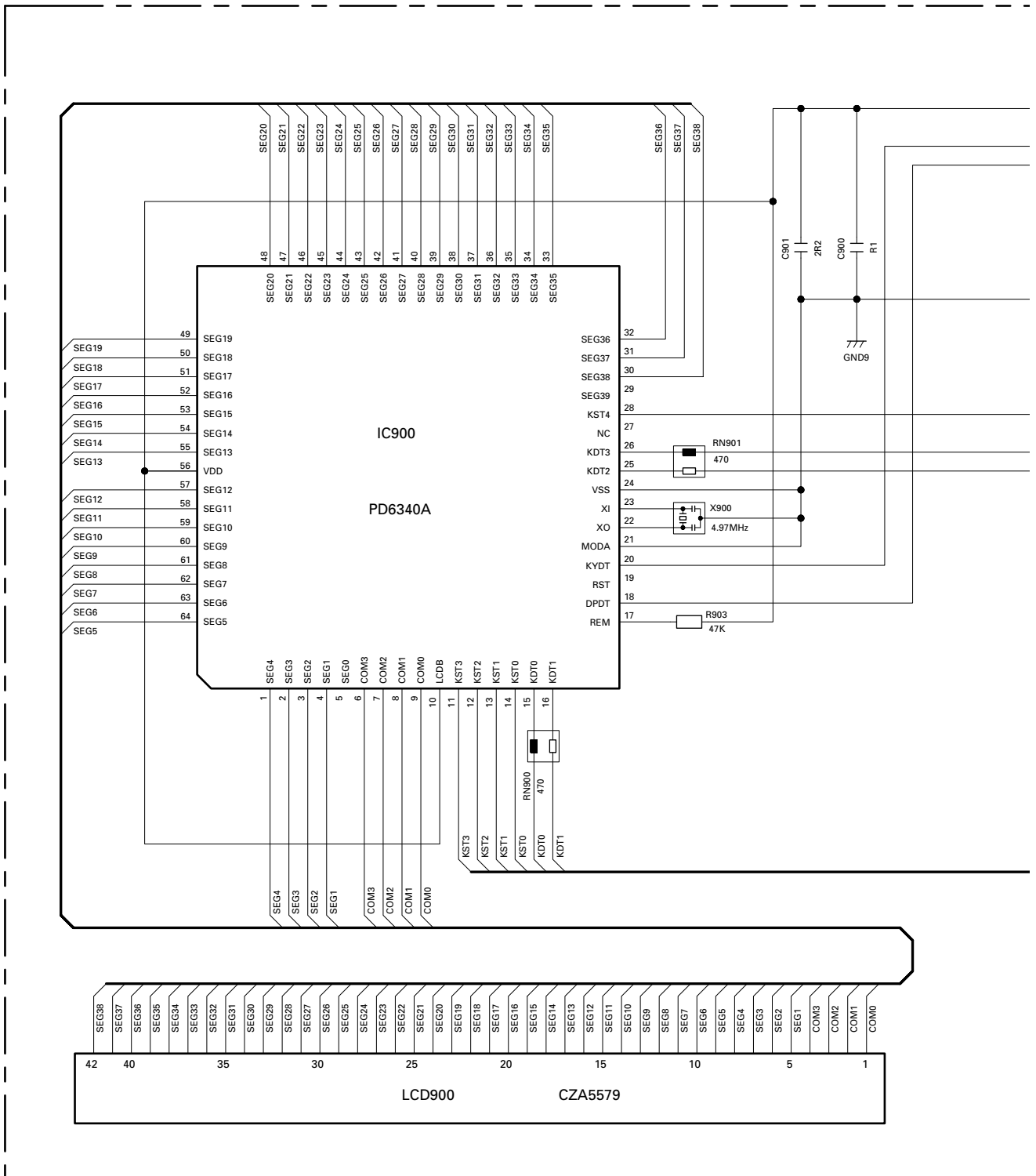
NOTE : Decimal points for resistor and capacitor fixed values are expressed as :
 2.2 → 2R2
 0.022 → R022

The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

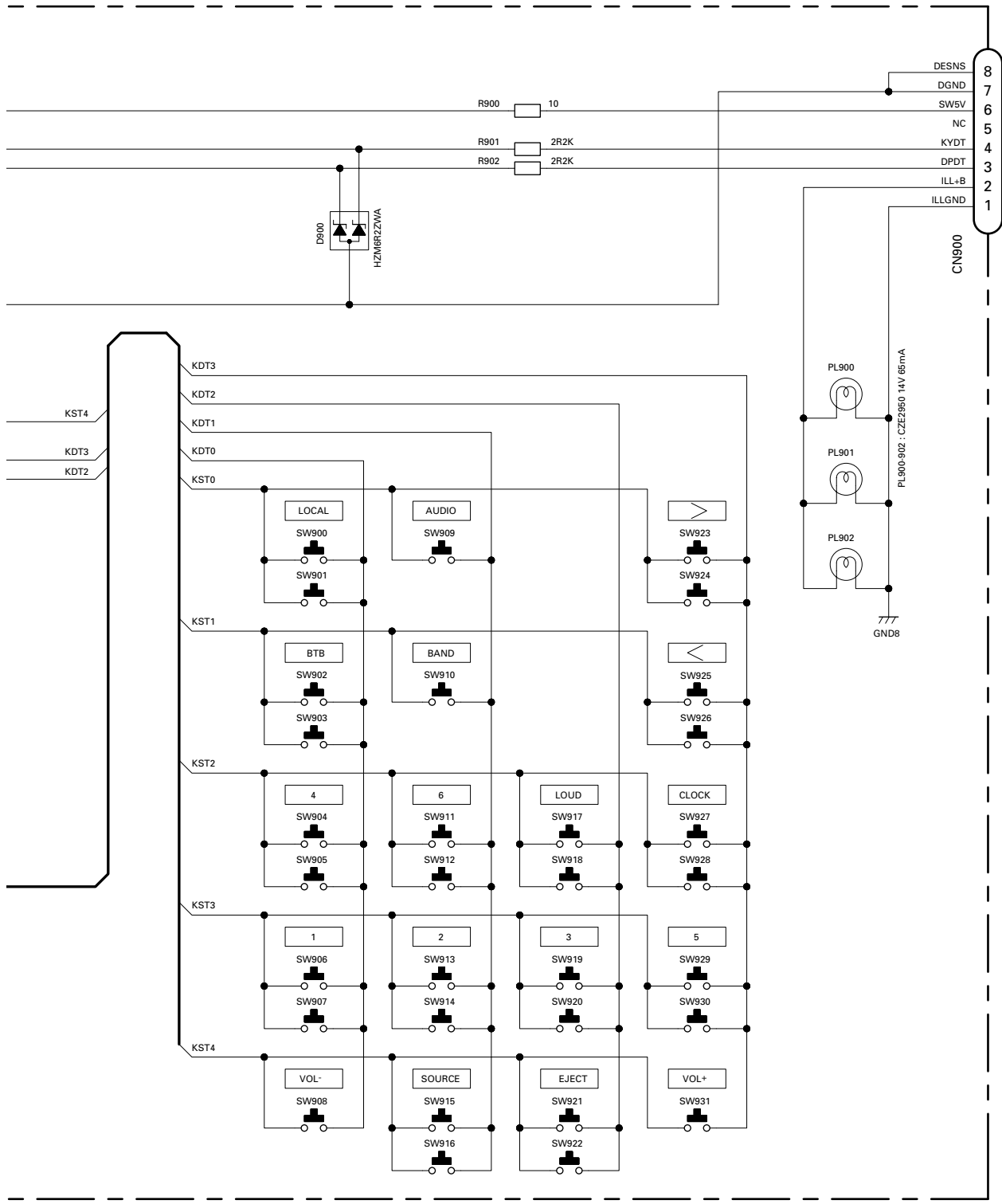
A
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3.3 KEYBOARD UNIT

B KEYBOARD UNIT



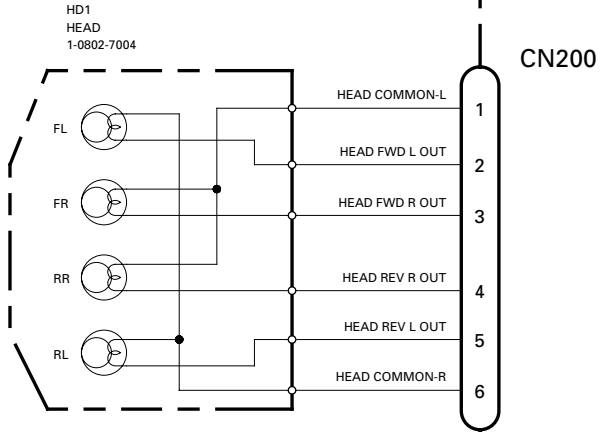
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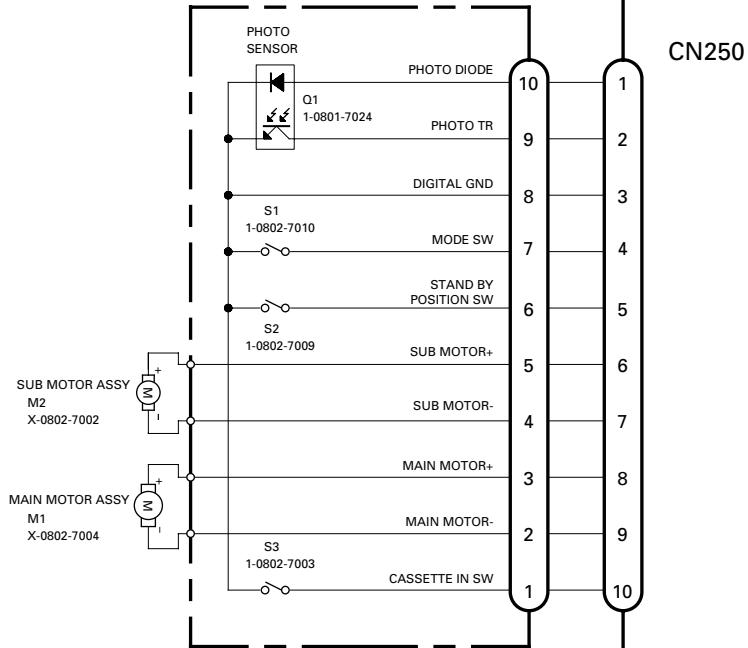
A CN800

3.4 CASSETTE MECHANISM ASSY

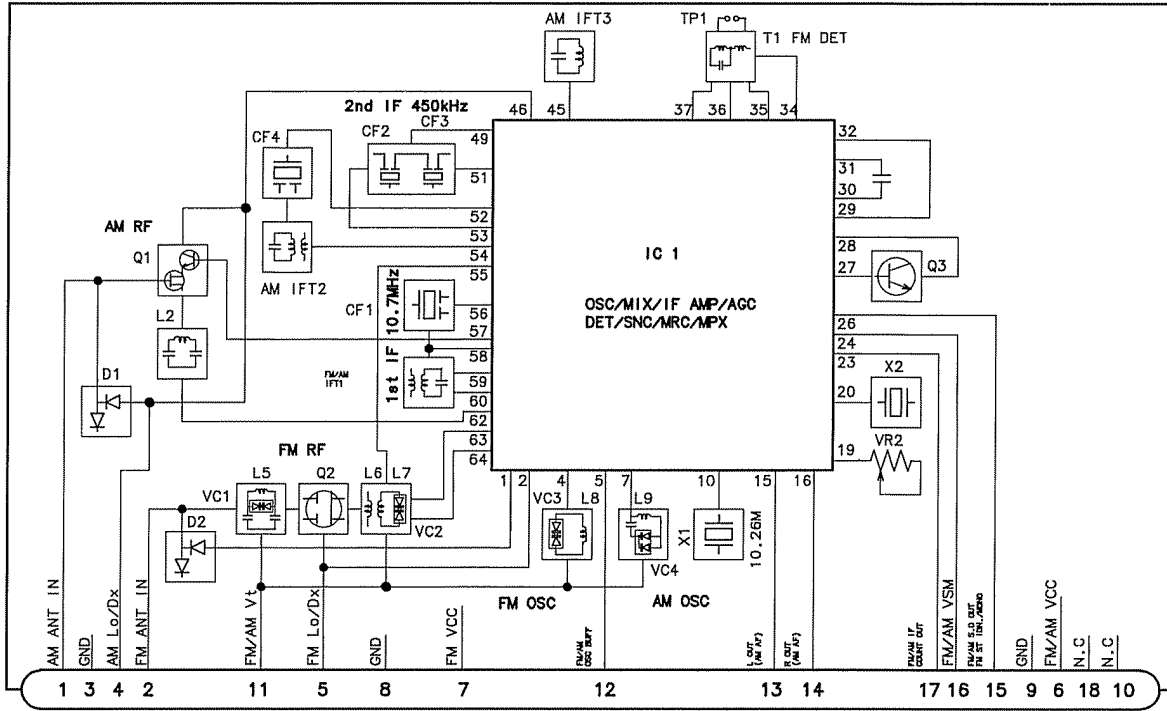
A TUNER AMP UNIT



C REEL PCB



● Tuner Unit(CZW5536)



No.	Symbol	I/O	Explain
1	AM ANT IN	I	AM antenna input High impedance. Connect to the antenna through an antenna circuit of receiver set.
2	FM ANT IN	I	FM antenna input 75Ω . Surge absorber is necessary.
3	GND		RF ground Ground for the antenna section.
4	AM Lo/Dx	I	AM local /distance Lo: 5V / Dx: open
5	FM Lo/Dx	I	FM local / distance Lo: ground / Dx: open
6	FM/AM VCC		FM / AM power supply FM/AM section power supply. DC +8.2V
7	FM VCC		FM power supply FM RF and band switch section power supply. DC +8.2V
8	GND		FE ground Ground for the front end section.
9	GND		FM IF/ AM ground Ground for the FM IF/AM section.
10	N.C		Not used.
11	FM/AM Vt	I	Tuning voltage Connect to the PLL circuit.
12	FM/AM OSC BUFF	O	OSC buffer output Connect to the PLL circuit.
13	L OUT	O	L channel output FM stereo L-ch signal output or AM audio output.
14	R OUT	O	R channel output FM stereo R-ch signal output or AM audio output.
15	FM/AM SD OUT	O	Station detector High when signals are received. To be pulled up +5V at 100kΩ
	FM ST IND/MONO		Stereo indicator out ON when 16pin SD/IF request normal 0V(seek stop).
16	FM/AM VSM	O	Signal meter output Received FM/AM signal level (strength) output.
17	FM/AM IF COUNT OUT	I/O	IF count output ON when signals are received at seeking.
			SD / IF request in
18	N.C		Not used.