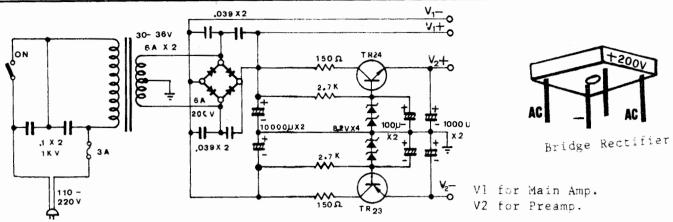
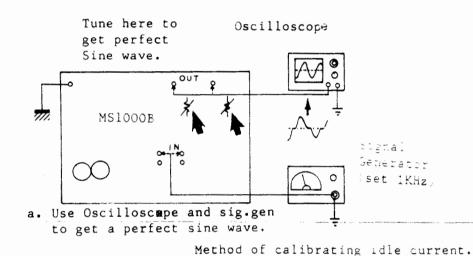


### ME SING ELECTRONIC CO.

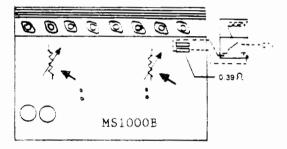
93, 3/F, Bk G, Yuen Chow Street, Sham Shui Po, Kowloon, H.K. (Tel: 3-873683, 3-708507)



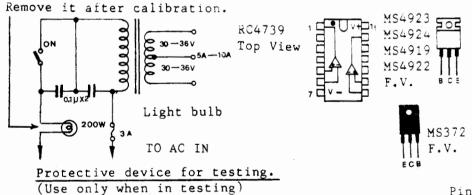
Circuit of onboard power supply (excluding transformer and it's associates :

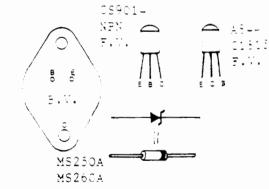


Tune VR to get a volcage order of 0.02V across elther resistor (0.39 lnm).

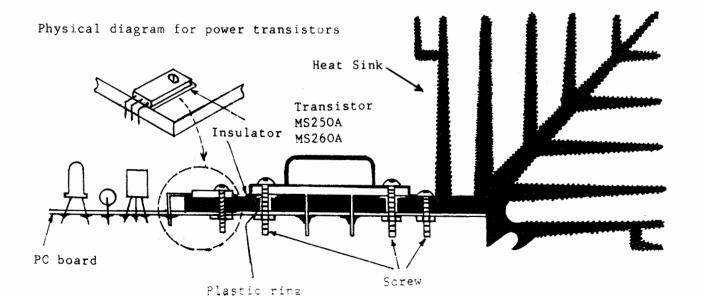


Reverse the poles of the voltmeter needle turns to the opposite direction.





Pins diagram for IC & transistors.



Technical Data: Input Sensit: 2.OmV (Mag) Damping Factor : 100 at 8 ohms. 10 mV (Mic) Tone Control 3 ranges. 100mV (Aux) Treble 18 dB 1.0 V (Main) Bass 18 dB Imped 50K (Mag) Mid Rang : 10 dB. 10K (Mic) S/N : Better than 110 dB Ratio 100K (Aux) Response : 0 to 100KHz Main Freq. 33K (Main) 1 dB 30 to 36V AC X2 0 to 100KHz Tone Voltage: 40 to 52 DC 1 dB 10A AC 10A DC 100 to 5KHz Mic Current : Output Power 150mV (Mag) 20 to 20KHz Mag (Mic) 120mV RIAA 1 dB 1.2 V (Aux) : 0 to 100KHz. Power Bandwid 250 W (Main) THD. : 0.005 % (1KHz 1 W) 4 to 16 ohms Imped (Main Amp)

#### Testing Procedures :

- 1. Make sure everything is right and ready for test.
- 2. Insert a 100 to 200 watts light bulb in series with the primary of the transformer to the AC inlet, and connect it to the PC board.
- 3. COnnect it to the AC inlet (110/220V) light bulb should glow dimmy. If it glows bright, un-plug it and recheck wiring.
- 4. If everything all right, the LED on board should dim out. It means that the specker protector is working and the idle current is under control as well as the output DC on the speaker terminal is below 1 V DC.
- 5. Use either method to calibrate idle current :
  - a. Use signal generator and Oscilloscope :-Connect it as shown, adjust the 5K VR such that the sine wave appeared to be in perfect shape.
    - b. Use voltmeter :-

Use a voltmeter with 0.1V DC range and tune the 5K VR to have a reading of 0.02V across each 0.39 Ohm resistor.

- 6. Unplug power and connect speaker to output, connect preamp out to main in, then apply a singnal in to AUX IN (e.g. singnal generator, tuner, Cassetle etc).
- 7. If all done, connect AUX IN to a selector switch and magnetic preamp out to the switch, then test it with a magnetic cartridge with a record.
- 8. If all set, remove the 100/200W light bulb.

Note: In the testing procedures above, no precaution is made in against any 'HUM' noise pick-up. For testing propose, it is resommended to use a metal plate insulated, and put it under the PC board with a heavy duty cable grounded.

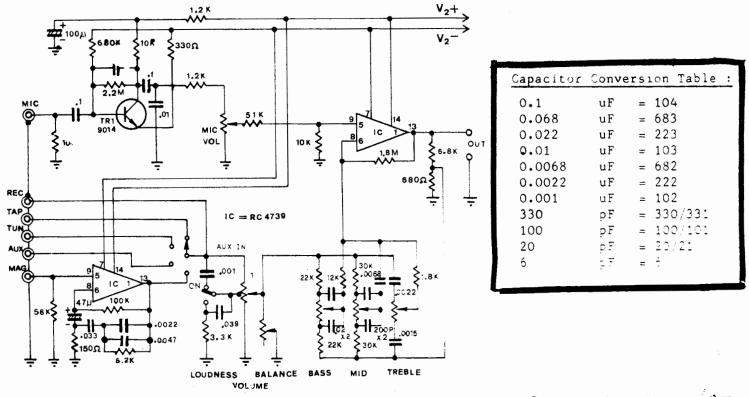
\*\* If any problem comes up, recheck circuit and process testing procedures.

If all failed, consult ME SING ELECTRONIC CO.

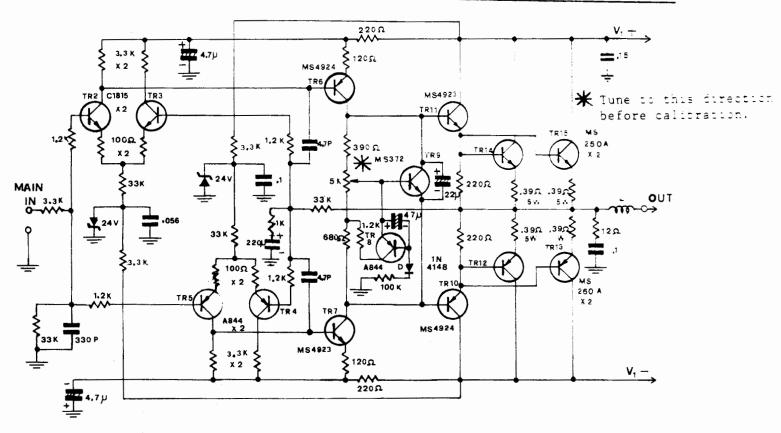
#### Transistors table for MS1000B

TRI	CS9014	TR7	MS4923	TR13	MS260A	TR19	C1815		
TR2	C1815	TR8	A844	TR14	MS250A		A844		
TR3	C1815	TR9	MS372	TR15	MS250A	TR21	C1815		
TR4	A844	TR10	MS4924	TR16	C1815	TR22	MS4922		
TR5	A844	TRll	MS4923	TR17	C1815	TR23	MS4919	or	N4898
TR6	MS4924	TR12	MS260A	TR18	C1815	TR24	MS4922		

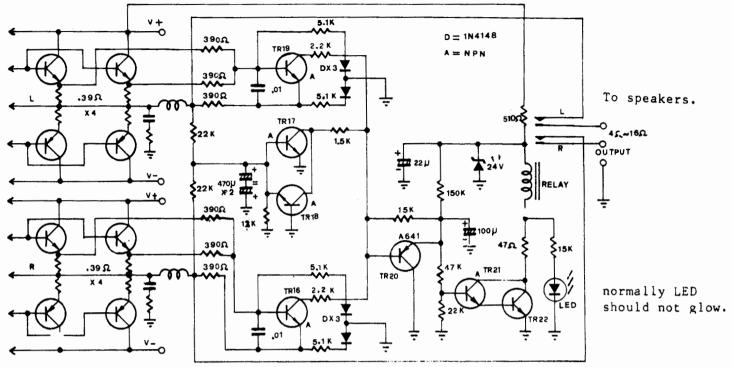
# 250W 全DC化立體聲前後級放大器



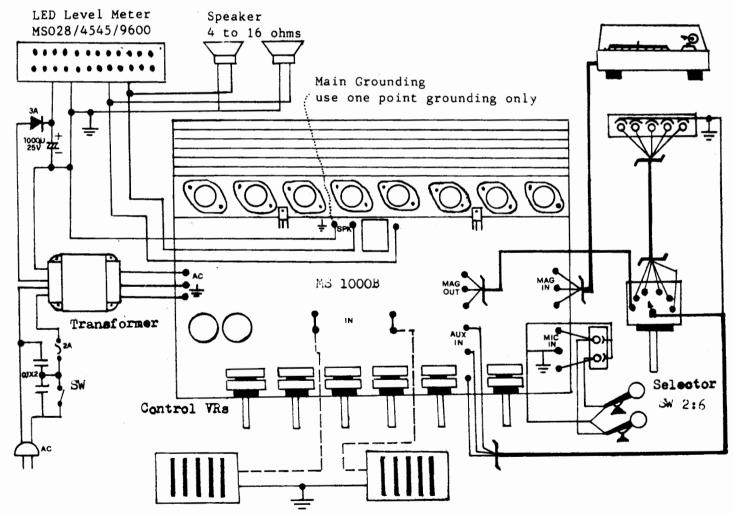
Circuit of magnetic preamp, microphone preamp, tope control and mixer for MS1000B.



雙差動式後級放大器關 Circuit of main amplifier for MS1000B.



Circuit of professional speaker protector for MS1000B.



SEA Level Display MS9600

Symbolic circuit of MS1000B in connection with other associates.

#### Features:

- \* Unique, consolidated PC board for completeness of whole set; including magnetic preamp, microphone preamp, mixer, tone control, main amplifier, voltage regulator, as well as power supply and control VRs.
- \* LED indicator indicates working states of speaker protector, normally

#### SEA Level Display MS9600 Symbolic circuit of MS1000B in connection with

## Symbolic circuit of MS1000B in connection with other associates.

#### Features:

- \* Unique, consolidated PC board for completeness of whole set; including magnetic preamp, microphone preamp, mixer, tone control, main amplifier, voltage regulator, as well as power surply and control VRs.
  - voltage regulator, as well as power supply and control VRs.

    \* LED indicator indicates working states of speaker protector, normally LED should be in OFF state.
    - effect.

      \* High quality IC (RC4739)simplified assemble procedures in the best
  - cost-perfor-mance position.

    \* Easy idle current calibration just by turning one VR onboard to get best

\* Large heat sink desired for on board coling outside main case for best

- reproduction of signal.

  \* Seperated block design for independency of different usages.
- \* Clear and clean design of PC boar' for easy assemble.
- \* Clear and clean design of PC boar, for easy assemble.