

**MAIN AMP ADJUSTMENTS**

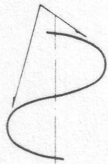
**Equipment Requirements**

1. The output impedance of the signal generator should be less than 1kohm.
2. The input impedance of the oscilloscope, level meter, etc. should be more than 100kohms.

When adjusting the main amp follow the proper order: waveform adjustment, center voltage adjustment and last, idling current adjustment.

**Waveform Adjustment**

1. Connect an 8-ohm dummy load to the output terminal.
2. Feed a -6dBm/1kHz signal to the input terminal (between the DC circuit board IN and the E terminal).
3. Adjust the VR3 as shown in Figure 5 to achieve a waveform which is symmetrical rounded like that shown in Figure 4.



Check for symmetrical roundness at top and bottom.

Figure 4. Output Waveform

**Center Voltage Adjustment**

4. Adjust VR2 so that the DC circuit board +CO terminal voltage is  $30 \pm 1V$ .  
NOTE: Only after steps 1 to 4 have been successfully carried out should you continue to idling current adjustment.

**Idling Current Adjustment**

5. Adjust VR1 so that the DC circuit board TP terminal voltage is  $10 \pm 1mV$  at no signal.

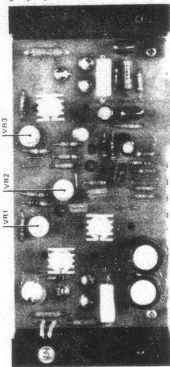


Figure 5. MA Circuit Board

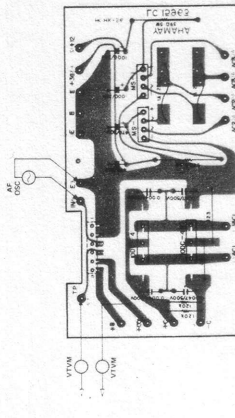
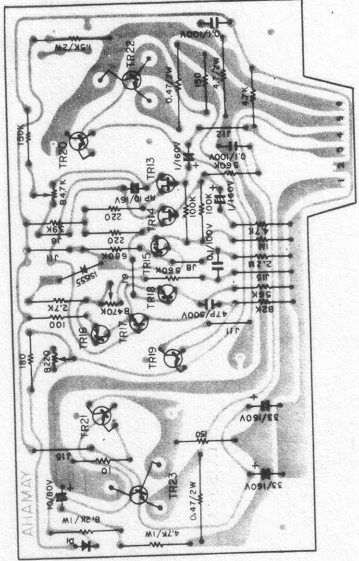


Figure 6. DC Circuit Board

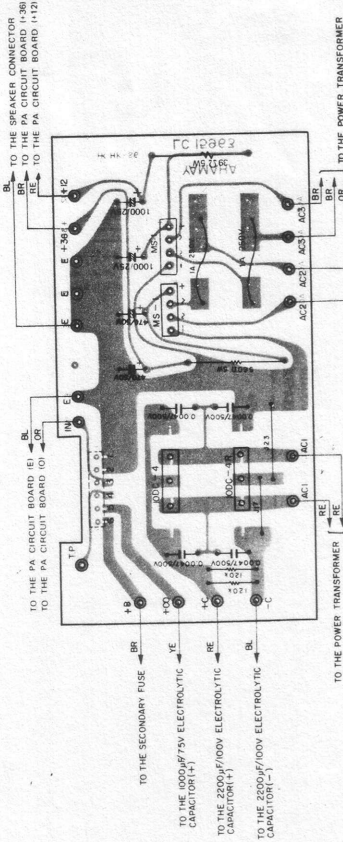
**MA CIRCUIT BOARD**

CIRCUIT REF.	DESCRIPTION
TR13/14	2SK30A
TR15	2SC1881
TR16	2SA561
TR17/18	2SA818
TR19/20	2SC484
TR21	2SA484
TR22/23	2SC898



Part No.	Description
305-400A-B0008	MA Circuit Board Assy #18973
401000A-00001	Transistor 2SA484
401000A-00002	Transistor 2SA818
401000A-00003	Transistor 2SC484
401000A-00004	Transistor 2SC1881
401000A-00005	Transistor 2SC898
401000A-00006	FET 2SK30A
401000A-00007	Diode 1S1555
401000A-00008	Varistor STV-3H
401000A-00009	Trimmer B2201
401000A-00010	Trimmer B470KΩ
401000A-00011	Trimmer B470KΩ
401000A-00012	Transistor Socket
401000A-00013	Heat sinker
401000A-00014	Transistor Cover
401000A-00015	Circuit Board Cover

**DC CIRCUIT BOARD**



Part No.	Description
305-400A-B0070	DC Circuit Board Assy #15985 for General, South African, Australian Models
305-400A-B0073	DC Circuit Board Assy #15963 for U.S./Canadian Model
305-400A-B0074	DC Circuit Board Assy #15963 for European Model
401000A-00020	Diode MS1
401000A-00040	Diode 100C-4
401000A-000150	Cement Molded Resistor 350 ΩW
401000A-0005390	Cement Molded Resistor 100 ΩW
401000A-0005560	Cement Molded Resistor 1.8 250V (U.S./Canadian Model only)
401000A-0000730	Miniature Fuse 1AT 250V (European Model only)