



Fig. 1—Basic circuitry for the Galaxy 2000+ Linear Amplifier. The low-impedance plate load for the tubes is obtained by tapping the Pi-output circuit at the proper impedance point which is located at the junction of  $C_1$  and  $C_2$ . The maximum capacitance values are shown for 10 meters. Additional capacitors are switched in for the lower frequencies. For 80 meters a maximum capacitance of 1275 muf is

used at  $C_1$ , 1175 muf at  $C_2$  and 2400 muf at  $C_3$ . The bandswitch also selects various taps on  $L_2$ . The adjustable t.v.i. filter is comprised of  $C_4$ ,  $C_5$  and the associated inductors. Operation of the linearity-control system is explained in the text. Should an arc-over occur in the tubes,  $CR_1$  will conduct and provide a direct path to ground, thereby protecting  $Q_1$  from damage and avoiding possible loss of bias.