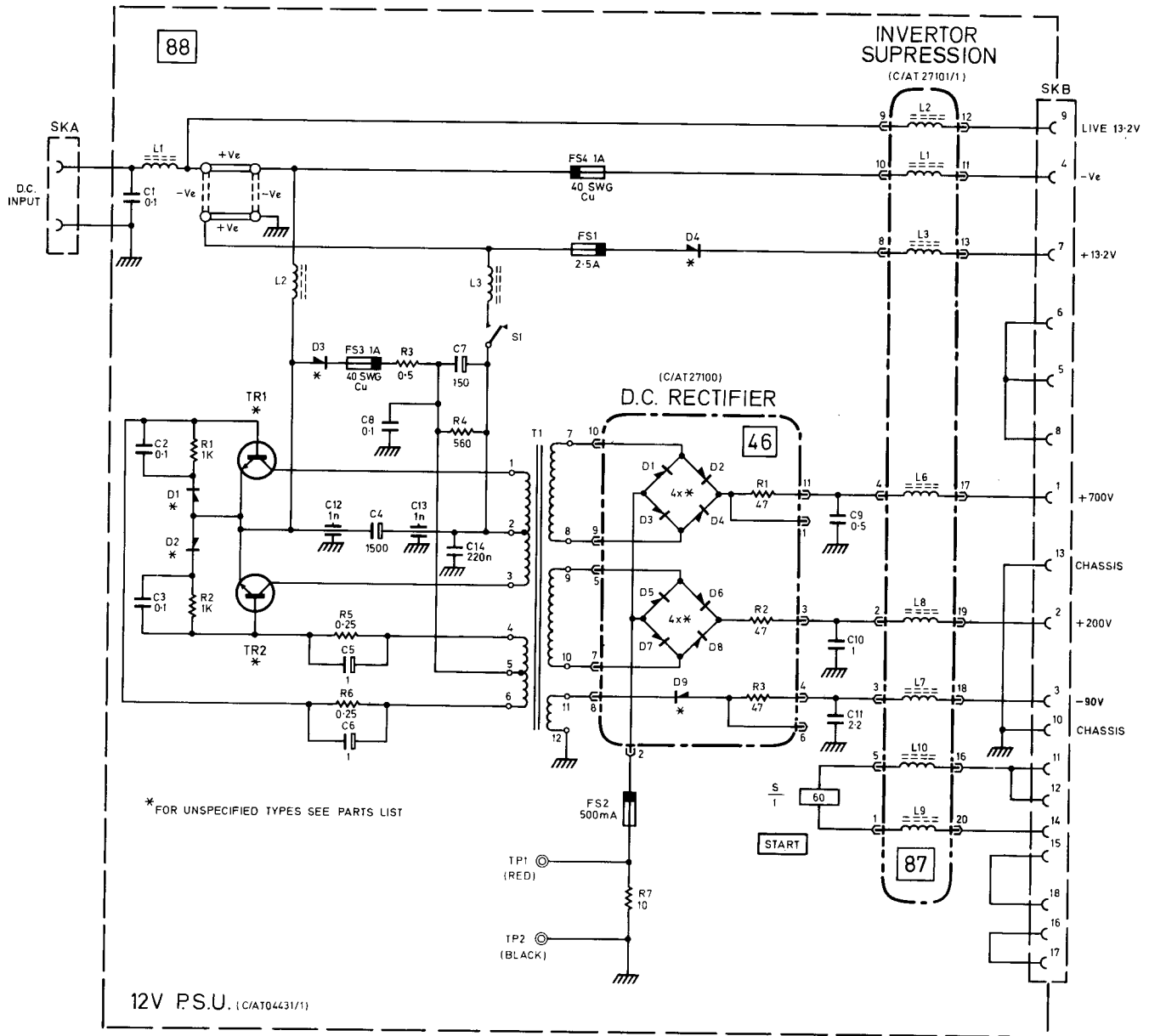
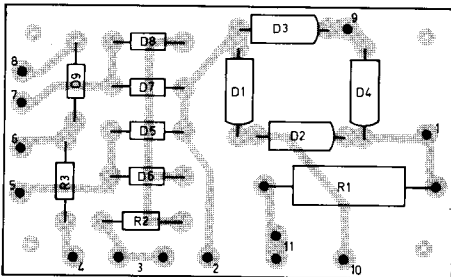


3.18 12V D.C. POWER SUPPLY UNIT

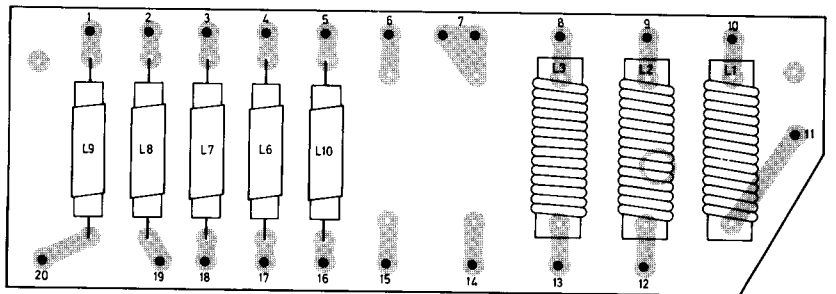
<u>PURPOSE</u>	To provide the power requirements of the SSB type 130 from a 12 volt dc supply.
<u>INPUT</u>	12V dc at SKA
<u>OUTPUT</u>	+700V dc at pin 1 for PA Anodes +200V dc at pin 1 for PA Screens -100V dc at pin 3 for PA Grids and Antenna Relay +13.2V dc at pin 5 & 6 for common supply line and ovens +13.2V dc at pin 9 for heaters in parallel Ground at pins 13 & 10.
<u>CIRCUIT DESCRIPTION</u>	12V dc applied at SKA is fed via L1 to the positive earth/negative earth selector plate and thence via L2/L3 and relay S contact 1 to the inverter circuit TR1 and TR2 which provides a high frequency a. c. voltage input to the primary of T1. T1 secondary winding outputs are as follows:-
<u>700V dc</u>	Rectified by the full wave rectifier D1-D4 smoothed by R1, C9 and available at pin 1 of SKB.
<u>200V dc</u>	Rectified by the full wave rectifier D5 to D8, smoothed by R2, C10 and available at SKB2.
<u>-100V dc</u>	Rectified by the half wave rectifier D9, smoothed by R3, C11 and available at pin 3 SKB.
<u>+13.2V dc</u>	Taken from the positive pin of the polarity selector plate, and available at pins 6 & 5.



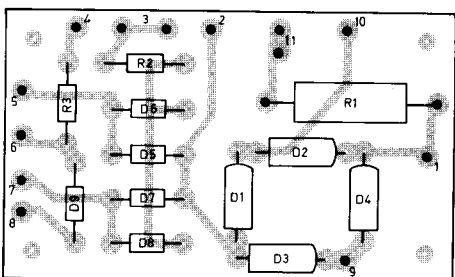
AT 27100



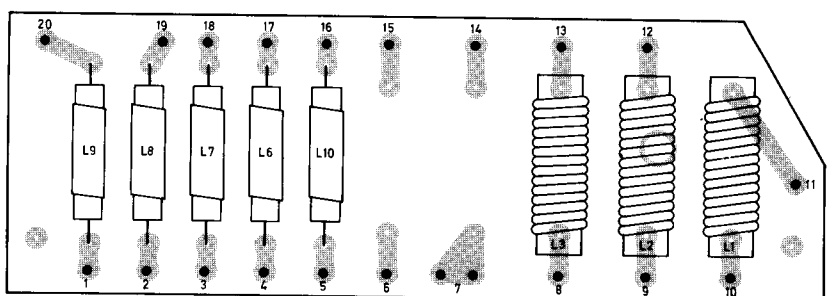
TOP VIEW



TOP VIEW



BOTTOM VIEW



BOTTOM VIEW

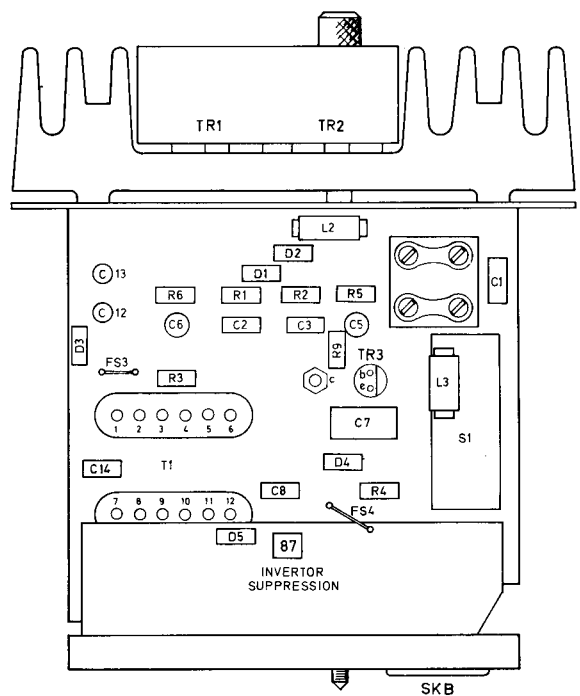
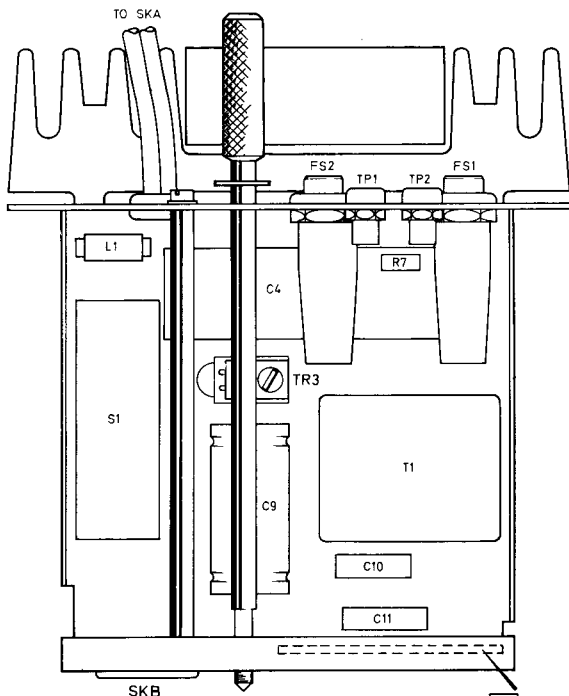
3.19 24V D.C. POWER SUPPLY UNIT

<u>PURPOSE</u>	To provide the power requirements of the SSB type 130 from a 24V d.c. supply.
<u>INPUT</u>	24V d.c. at SKA 1 and 2
<u>OUTPUT</u>	+700V d.c. at pin 1 for P. A. Anodes +200V d.c. at pin 2 for P. A. Screens -ve 100V d.c. at pin 3 for P. A. Grids and Antenna Relay +13.2 d.c. at pins 5 & 6 for common supply line and ovens 24V d.c. at pin 9 for heaters in series earth at pin 13

CIRCUIT DESCRIPTION

24V d.c. supplied at SKA is fed via L1 to the negative earth/positive earth selector plate and thence via L2, L3 and relay S contact 1 to the inverter circuit TR1 and TR2 which provides a high frequency a.c. voltage input to the primary winding of transformer T1. T1 secondary outputs are as follows:-

<u>700V d.c.</u>	Rectified by the full wave rectifier D1-D4 smoothed by R1, C9 and available at pin 1 of SKB.
<u>200V d.c.</u>	Rectified by the full wave rectifier D5 to D8, smoothed by R2, C10 and available at SKB 2.
<u>-100V d.c.</u>	Rectified by the half wave rectifier D9, smoothed by R3, C11 and available at pin 3 SKB.
<u>+13.2V d.c.</u>	Taken from the positive 24 volt pin of the polarity selector plate regulated by TR3 providing 13.2V at pins 5 and 6 of SKB.
<u>24V d.c.</u>	Taken from pin 1 of the polarity selector plate i.e. battery live terminal and is available at pin 9 SKB. Relay S connected between pins 10, 11 and 14 will be energised when the installation is in the standby mode and the press to transmit switch is operated.



TOP VIEW

BOTTOM VIEW

