



P.O.E.D.

S. BCH.

PAPER:- W

CIRCULATION:-

GENERAL

ISSUES	NO.	DATE	BY
1	1	1974	...
2	2	1974	...
3	3	1974	...
4	4	1974	...
5	5	1974	...
6	6	1974	...
7	7	1974	...
8	8	1974	...
9	9	1974	...
10	10	1974	...

1974
10/14

SETTING-UP PROCEDURE

- (a) CONNECT THE 'X' AND 'Y' LEADS TO THE APPROPRIATE TERMINALS ACCORDING TO THE NUMBER OF CELLS IN THE BATTERY TO WHICH THE RECTIFIER IS TO BE CONNECTED.
- (b) CONNECT THE RECTIFIER TO THE A.C. MAINS USING THE TAPPINGS APPROPRIATE TO THE SUPPLY VOLTAGE AVAILABLE.
- (c)(i) **RECTIFIER No.78 A.**
- (A) APPLY A LOAD OF 0.25 AMP. TO THE OUTPUT TERMINALS.
- (B) ADJUST R1 UNTIL THE OUTPUT VOLTAGE SHOWN IN TABLE 1, COLUMN 2 IS OBTAINED.
- (C) INCREASE LOAD CURRENT TO THE VALUE SHOWN IN TABLE 1, COLUMN 3.
- (D) ADJUST R2 UNTIL THE OUTPUT VOLTAGE SHOWN IN TABLE 1, COLUMN 2 IS AGAIN OBTAINED.

(ii) **RECTIFIER No.78 B.**

- (A) APPLY A LOAD OF 0.5 AMP. TO THE OUTPUT TERMINALS.
- (B) ADJUST R1 UNTIL THE OUTPUT VOLTAGE SHOWN IN TABLE 1, COLUMN 2 IS OBTAINED.
- (C) INCREASE LOAD CURRENT TO 4.0 AMPS.
- (D) ADJUST R2 UNTIL THE OUTPUT VOLTAGE SHOWN IN TABLE 1, COLUMN 2 IS AGAIN OBTAINED.

TABLE 1		
No. OF CELLS IN BATTERY	OUTPUT VOLTAGE (VOLTS)	LOAD CURRENT (AMPS)
11	25.3	3.5
12	27.6	3.0
13	29.9	3.0
14	32.2	2.5
15	34.5	2.5
16	36.8	2.5
17	39.1	2.0
18	41.4	2.0
19	43.7	2.0
20	46.0	2.0

THE ABOVE VALUES OF OUTPUT VOLTAGE ARE BASED ON A FIGURE OF 2.3 VOLTS PER CELL.

THE RECTIFIER IS NOW READY FOR CONNEXION TO A BATTERY AND LOAD.