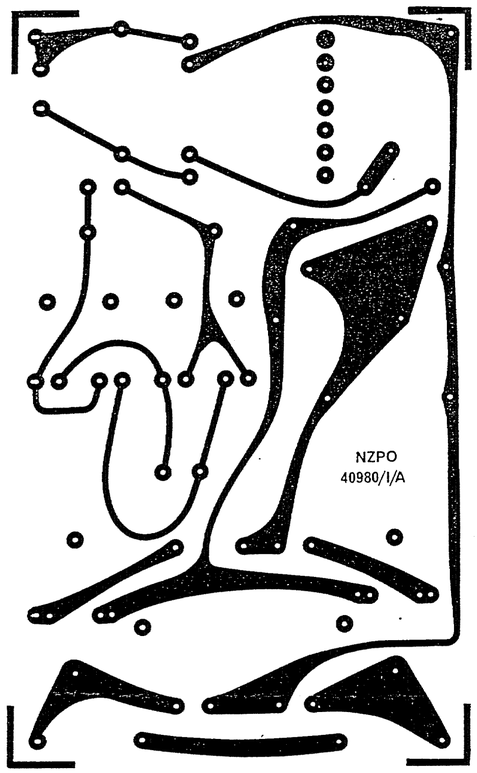
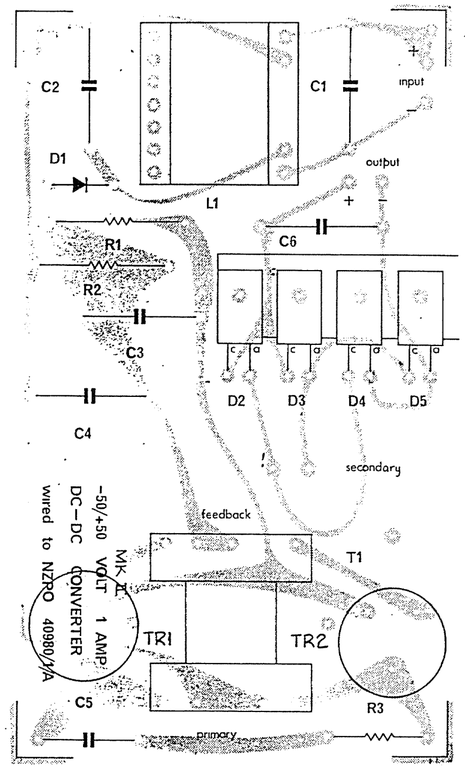


COPPER SIDE

DRILLING DETAILS

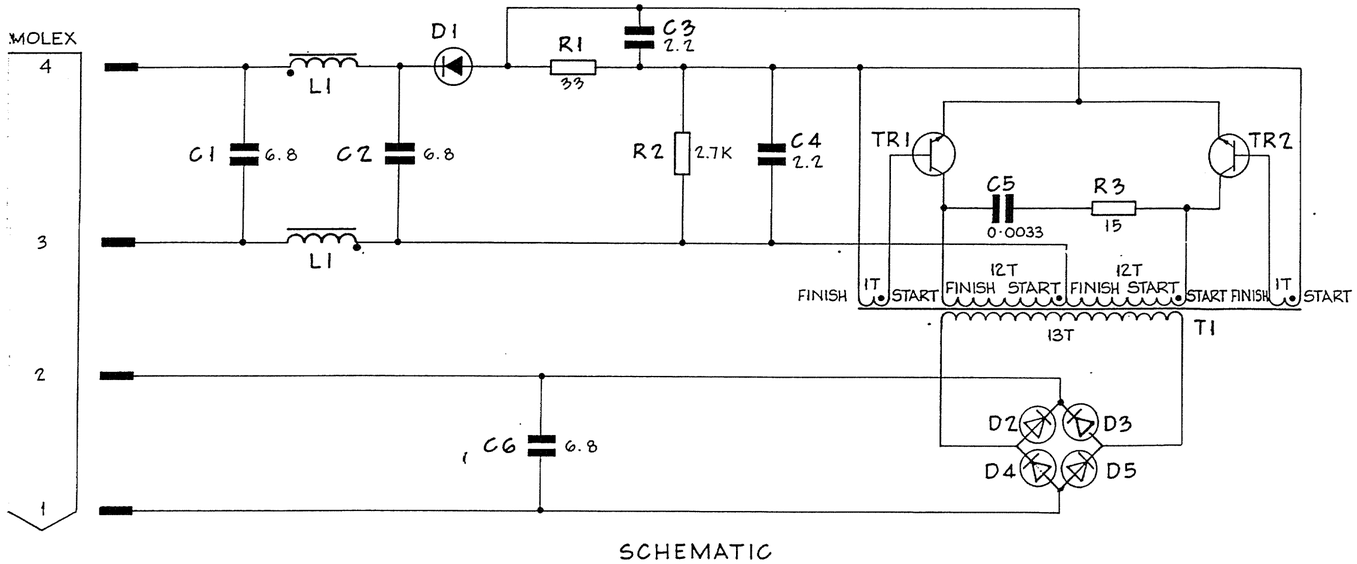
ALL HOLES 1.2mm DIA



COMPONENT SIDE

PARTS LIST

DESIGNATION	DESCRIPTION	VALUE	RATING	TOLERANCE	PART Nº	NOTES
R1	RESISTOR	33	5W			ADJUSTED FOR BEST EFFICIENCY. WIRE WOUND
R2	RESISTOR	2.7K	5W			WIRE WOUND.
R3	RESISTOR	15	5W			WIRE WOUND-ALL MOUNTED CLEAR OF PC BOARD.
C1,C2,C6	CAPACITOR	6.8	100V.			METALISED POLYESTER
C3,C4	CAPACITOR	2.2	100V			METALISED POLYESTER
C5	CAPACITOR	0.0033	1000V			TUBULAR POLYESTER
D1	DIODE				IN5059 (A14B)	
D2-D5	DIODE				PHILIPS BYX71-350	FAST RECOVERY
TR1,TR2	TRANSISTOR				TEXAS BUY69B (SL Nº AD6)	ALTERNATIVES: RCA 2N6513; INTERNATIONAL RECTIFIER IR 402
T1	TRANSFORMER				EC40 (SL Nº AD1&AD2)	PHILIPS CORE 4322-020-52500 FORMER 8222-294-38660 IF POT CORE USED :- PHILIPS P36/22. S.L Nº CC760
L1	CHOKE	0.5mH	1.5A		EC35 (SL Nº AD3&AD4)	PHILIPS CORE 4322-020-52500 FORMER 8222-294-38630 2x50 TURNS OF 0.710mm (22 SWG). BIFILAR WOUND.
	CONVERTER BOX				EDDYSTONE DIECAST BOX 6827P	187.7mm x 119.5mm x 52.4mm OR EQUIVALENT.
	MOLEX CONNECTOR				M1490 R&P.	



SCHEMATIC

TRANSFORMER DETAILS

	ALL WINDINGS TO BE BIFILAR WOUND	
	EC CORE	POT CORE
PRIMARY	2 x 12 TURNS (21 SWG)	2x9 TURNS, 0.810mm (21 SWG)
FEEDBACK.	2 x 1 TURN (30 SWG)	2x1 TURN, 0.315mm (30 SWG)
SECONDARY	13 TURNS (22 SWG)	9.5 TURNS, 0.710mm (22 SWG)

NOT TO BE USED FOR NEW WORK SEE DRAWING 42397 SHT. 2

NOTES

1. P.C BOARD TO BE MADE FROM 1.6mm THICK G10 FIBREGLASS, 70 MICRON COPPER, SINGLE SIDED.
2. P.C BOARD NEGATIVE AND SCREEN AVAILABLE FROM ELECTRICAL-MECHANICAL SECTION, E-IN-C, WELLINGTON.
3. T1 AND D2-D5 TO BE MECHANICALLY COUPLED TO THE CASE WITH ALUMINIUM BRACKETS. SEE NZPO DRG 40435.
4. THIS DRAWING SUPERSEDES DRG 40094.

DC-DC CONVERTER, -50/+50 VOLT, 1 AMP MK. II

DEL	CKD	APD	ORDER	DATE	ISS	CHANGE
RT	DN	GBC	155407	19-3-77	A	
RLW	CWS	CWS	147350	31-3-77	B	MINOR AMENDMENTS.
DG	IAD	GBC	18799	29-1-79	C	C5 VALUE AMENDED
IDP	PBC	PBC	20698	6.2.80	D	DRAWING SUPERSEDED

NZPO
ENGINEER-IN-CHIEF, WELLINGTON

COY Nº | ORIGIN: E-M

1 OF 1 | DRAWN: E-M | TRACED: R.T

A2 | 40980