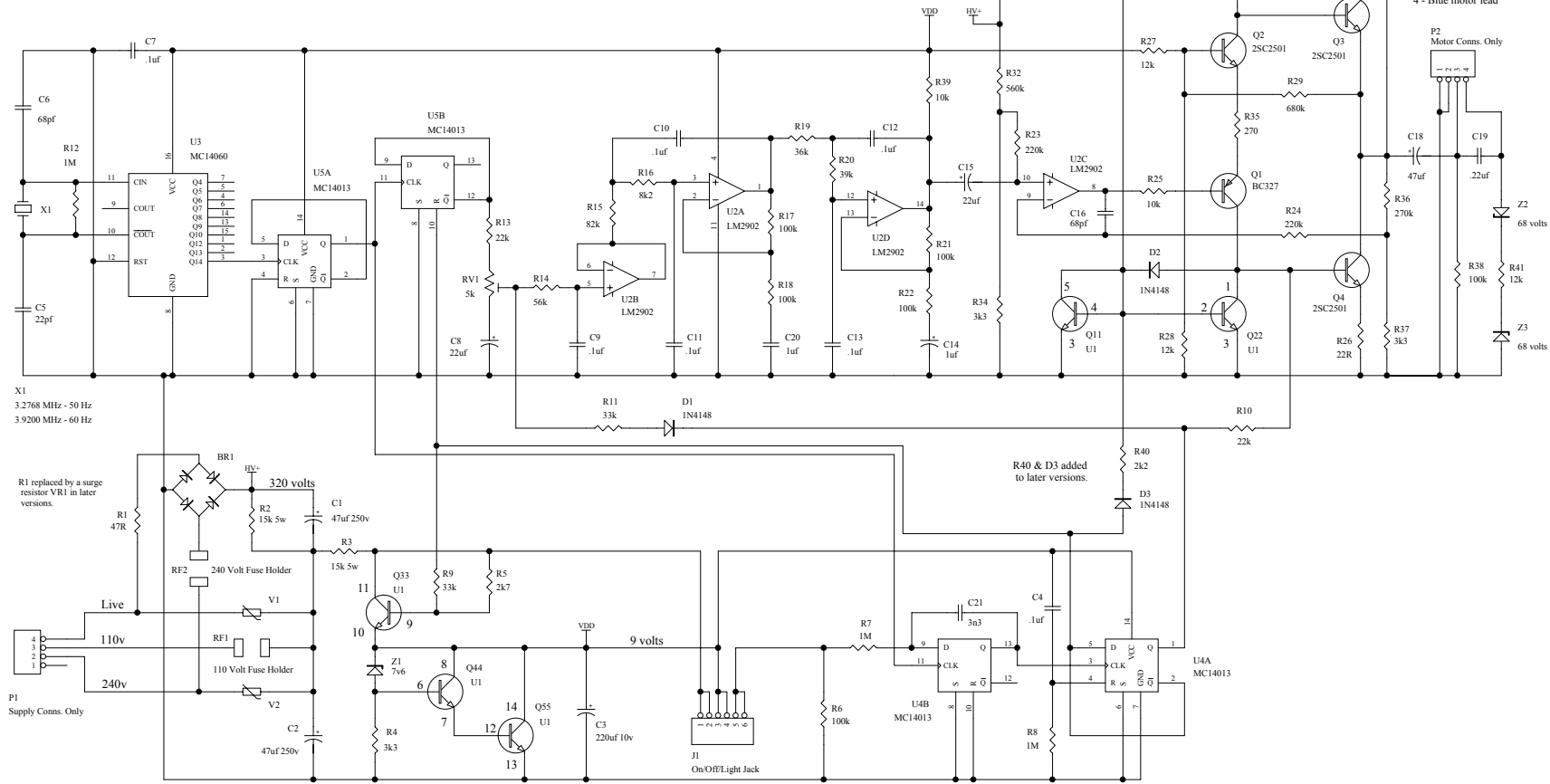


VALHALLA PCAS 022



X1
3.2768 MHz - 50 Hz
3.9200 MHz - 60 Hz

R1 replaced by a surge
resistor VR1 in later
versions.

P1
Supply Conns. Only

R40 & D3 added
to later versions.

Motor Connections
1 - Gray motor lead
2 - Gray motor lead
3 - Red motor lead
4 - Blue motor lead

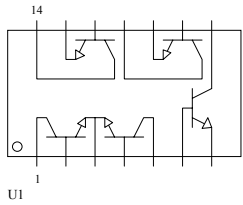
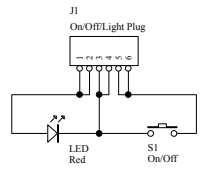
P2
Motor Conns. Only

Z2
68 volts

Z3
68 volts

Substitutions

U1 - MC 3386	U2 - LM2902	U3 - MC14060	U4,5 - MC14013	Q1 - BC327	Q2, 3, 4 - 2SC2501
MC 3346 LM 3045 LM 3046 LM 3086 LM 3144 ECG 912	LM324 TL074 ECG 987	4060 74HC4060	4013	BC 309 BC 307 BC 260 BC 281 ECG 159	2SC2335 2SC2552 2SC3038 2SC2929 2SC2534 ECG51



RV1 is set to 85 volts +/- 1 volt. Measured at P2
between terminals 3 (red motor wire) and 1 (grey motor wire).

All .1uf capacitors are rated at 100 volts DC.
All resistors are .25 watt unless otherwise specified.

Fuse - 250 volt 1 amp fast blow.

Varistors V1, V2, VR1, D3 and R40 are in later versions.

Title: Valhalla PCAS 022 Motor Control PCB			Linn Products Ltd Floors Road, Waterfoot Eaglesham, Glasgow Scotland, UK, G76 OEP 04 644 51111	
Original Date:	July 7, 1989	Revision:	1	
Size:	C	Number:	1	
File:	C:\WRK\LINN\VALHALLA.SCH	Date:	7-Jul-2001	Sheet: 1 of 1