

2 MARCH, 1994

BULLETIN.039

WIREFEEDER: W17
W16-20 SPEED CONTROL PCB

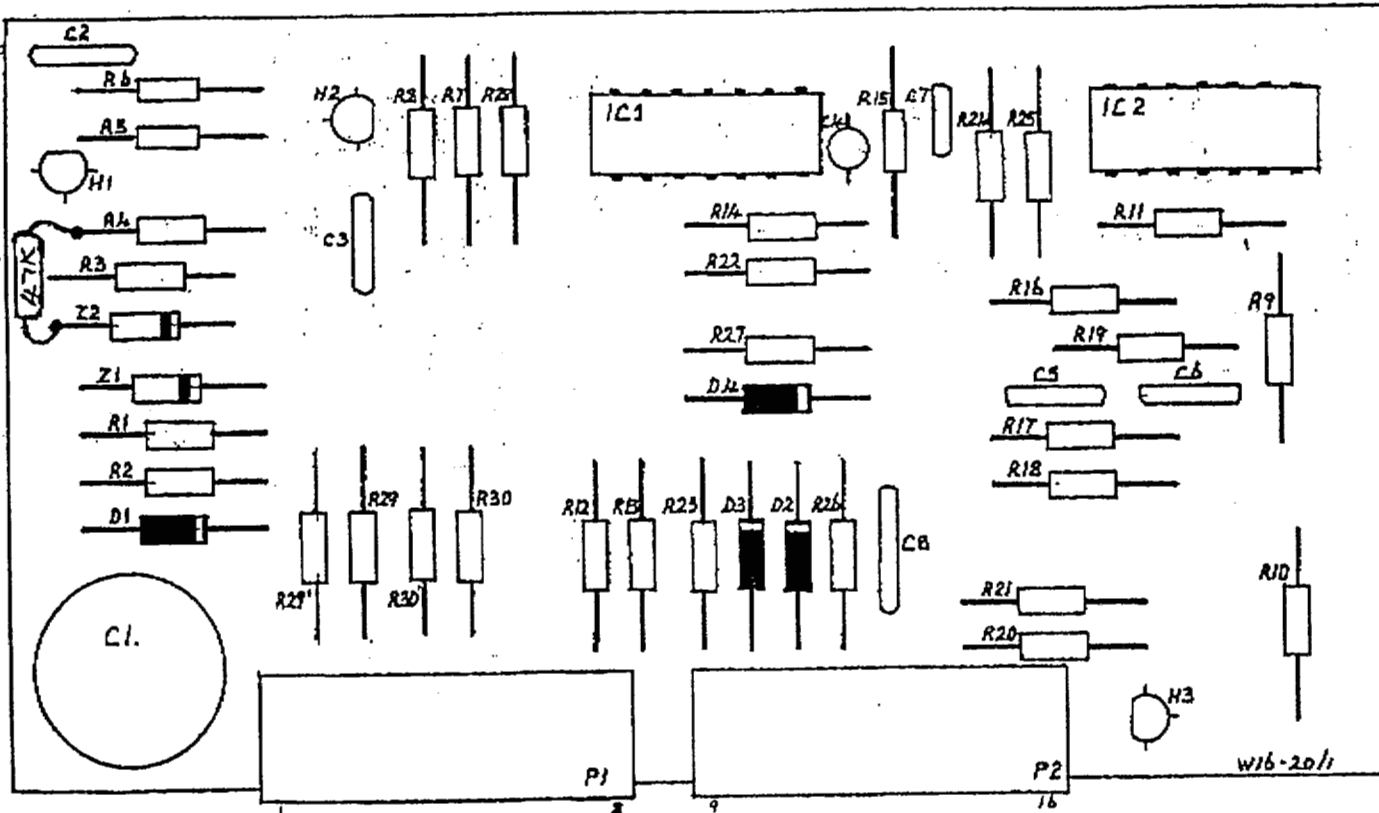
When the wire feeder is being powered by a K8 style step-down transformer, motor 'clogging' or 'hunting' can occur, at low rpm. This problem can be rectified by modifying the W16-20 speed control PCB.

If the PCB is a W16-20/01 (1982 - 1984) version, then add a 47K Ohm base-emitter resistor to the transistor H1 (outer edges of R4 and Z2).

If the PCB is a W16-20/02 (1984 - current) version, then change the value of the resistor R31 from 100K to 47K.

Refer to attached drawings for further details.

ADD 47K BASE-EMITTER RESISTOR FOR H1.
 (OUTER END OF R4 TO ANODE (OUTER END) OF Z2)
 AS SHOWN



NOTE 1. ALL RESISTORS... 1/2 WATT 5%
 D1 - D3 INADOM
 Z1 - Z2 BZX61-12

NOTE 2. R29' R30' SELECT ON TEST
 R29 HIGH SPEED ADJ. FOR W17
 R30 HIGH SPEED ADJ. FOR W18

NOTE: PCB# W16-20/01 (1982-1984)

MODIFICATION TO ELIMINATE "COGGING" AT LOW RPM.

TOLERANCES
 GENERAL NOTES

WELDING INDUSTRIES
 OF AUSTRALIA PTY. LTD.

113 DAVIS ROAD, NEWCASTOWN, N.S.W. 2264

TITLE
W16-20 SPEED CONTROL BOARD
COMPONENT OVERLAY

DRAWN P.J.E. DATE 31-8-82 DRAWING NO. 1550E1
 CHECKED SCALE 2:1 W16-20

REV.	DATE	CHG'D.	REVISION
F			
E			
D			
C			
A			0

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