

29/09/05

BULLETIN #198

## **W41/W55/W56**

### MODIFICATION TO W41-12 PCB

The W41-12 wirefeed pcb, which is the replacement for the W41-11 wirefeed pcb, was introduced in Service Bulletin 192. Since then modifications have been made to this pcb.

- The layout has changed which will make the motor drive mosfet run cooler. This makes the heatsink originally fitted to the motor drive mosfet T1 unnecessary, so it has been removed.
- Flywheel diode D11 is now redundant, and has been removed.
- The diode bridge U8 has been changed to a larger capacity, and the heatsink removed.
- The 5 amp fuse F1 was deleted. It was found that the machine circuit breaker offers effective protection, and it is easier for the operator to access and reset the circuit breaker in the event of current overload, i.e. due to a drive problem.

The modified W41-12 pcb will be labelled Issue E, and is fitted to new wirefeeders from mid August 2005 production. The serial numbers start with:  
W550B0805030019 for the W55 (2RD) and  
W560B0805029025 for the W56 (4RD).

All our stock of the older style pcb were upgraded to an equivalent of the pcb layout change with the following modifications, as per Fig 1, page 2.

- Diode D11 was removed.
- The track which leads from Capacitor C2 –ve to the centre lead of mosfet T2 was cut.
- An insulated wire was added to the solder side of the pcb, connecting the S lead of mosfet T1 to the motor +ve rail (located at the C2 end of resistor R38).

Hugh Stewart,  
Technical Service Coordinator

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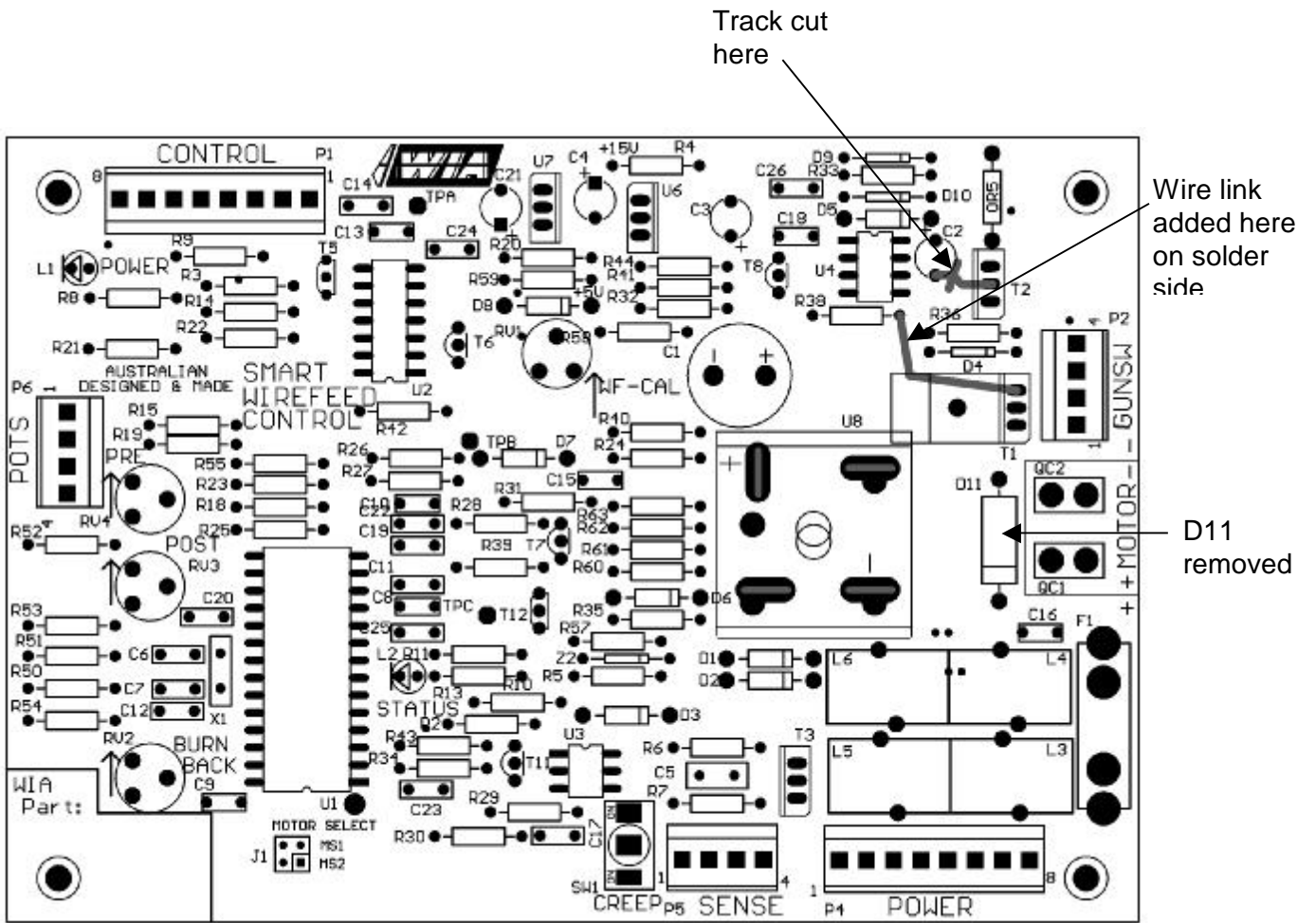


Fig 1, Modifications to W41-12 pcb.