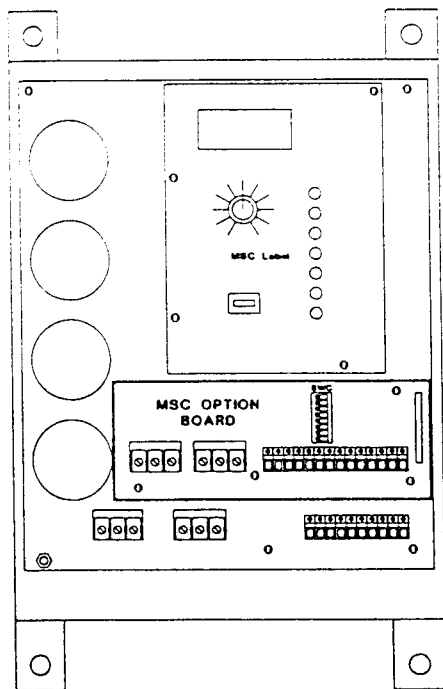
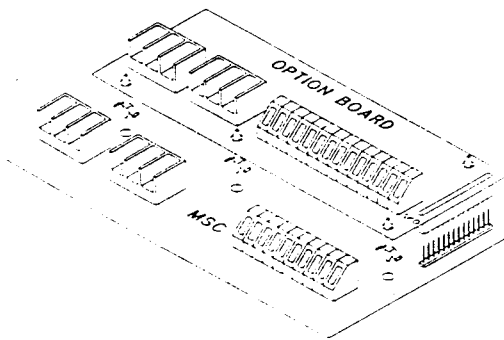
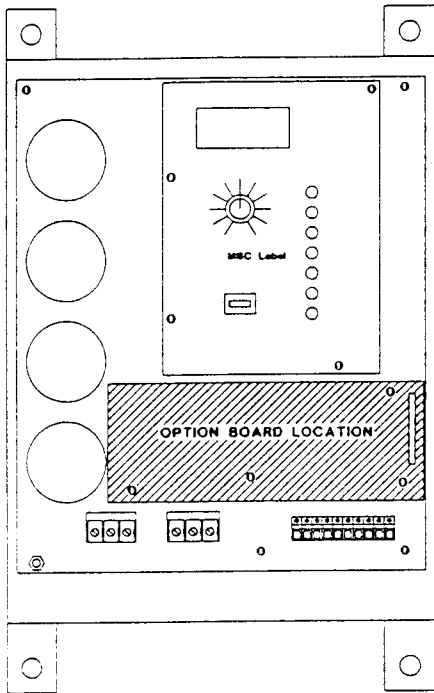


# MSC OPTION BOARD INSTRUCTION MANUAL

## Installation



### 1. Remove the Plastic Cover

Remove the two cover mounting screws at the base of the MSC.

Gently pull the base of the cover away from the chassis and then lift it up to release it from the locating pins at the top.

### 2. Locate the Option Board Mounting Holes

Locate the 4 mounting holes and the 14 pin connector, PLO, on the MSC control board. The shaded area on the drawing opposite shows their location.

### 3. Install the Option Board

Line up the plastic stand-offs and the 14 pin connector on the Option Board with the holes and the connector on the MSC control board.

Press the Option Board onto the control board. Make sure the connector mates properly with the pins and that the stand-offs push through the holes.

Press down around the stand-offs to make sure they push through and lock down under the control board.

### 4. Connect Wiring to the Option Board

Make connections as required, referring to the next page for details.

If a new cable entry is required, the gland plate must be **REMOVED** before drilling so that metal fragments do not enter the MSC.

### 5. Replace the Cover

Place the cover back onto the two locating pins on the top of the MSC.

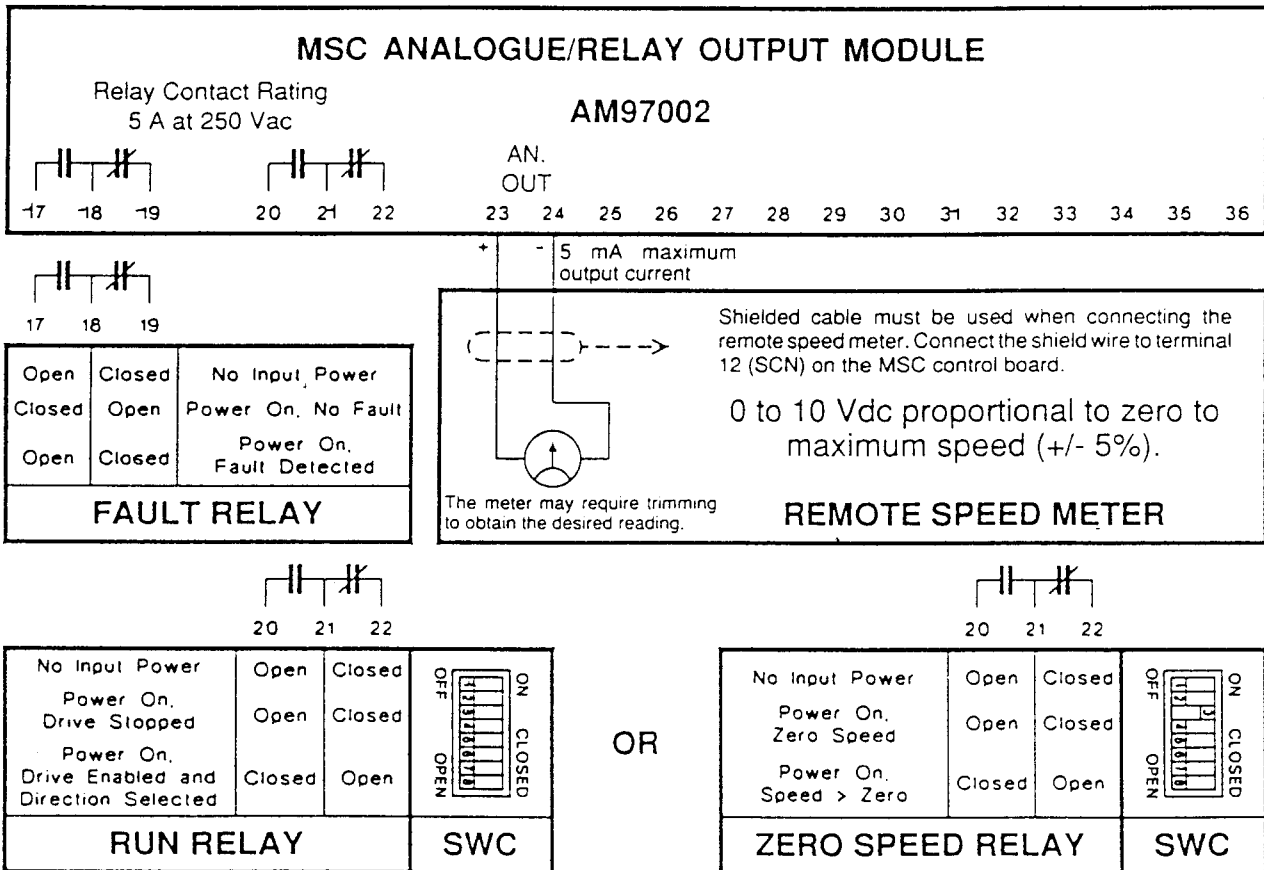
Fit the cover back into its normal position and replace the two cover mounting screws in the base of the MSC.

# MSC OPTION BOARD INSTRUCTION MANUAL

## REMOTE SPEED METER AND RELAY CONNECTION

The MSC Analogue/Relay Output Module provides a 0 to 10 Vdc (nominal) output signal which is proportional to motor frequency (speed). This signal is useful for metering motor speed and the diagram below shows how it may be connected.

This module also provides two status relays, one is a fault relay, the other may be selected to be either a run relay or a zero speed relay. This selection is made by setting pole 3 of the 8 way switch SWC on the option board as shown in the diagram below.



## STATUS INDICATION

If the MSC is fitted with the Digital Speed Meter (P/N AM97001) then the MSC status may be displayed on it by setting the eight way switch, SWC, on the Option Board as shown below. This feature is very useful during commissioning and trouble shooting. It may also be used to set the parameters of two MSC's to be the same.

NO STATUS DISPLAY	SPEED REFERENCE (percent)	ACCEL TIME (seconds)	DECEL TIME (seconds)	VOLTAGE BOOST (percent)	DC BUS VOLTAGE (volts)	DC BUS CURRENT (amps)	4 TO 20mA SIGNAL (mA)
