



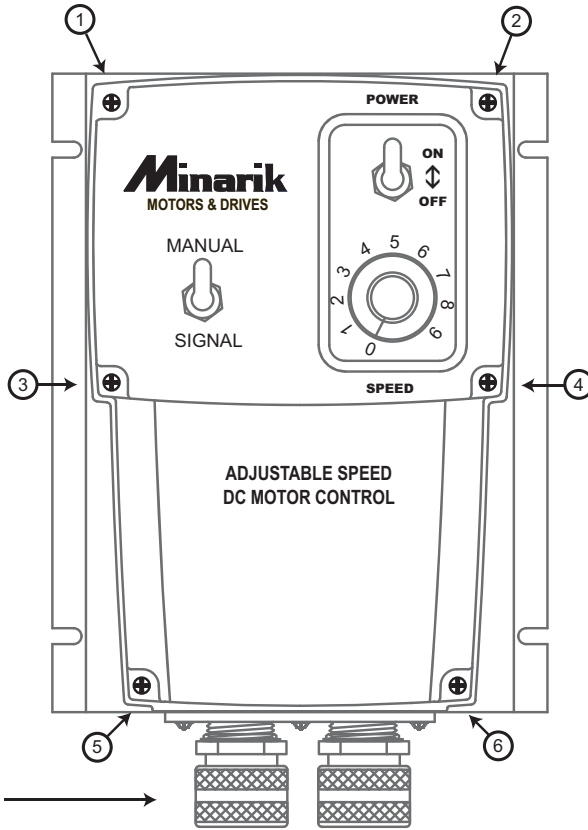
# MC10-PCM

## NEMA 4X SCR MOTOR CONTROL

### QUICK START GUIDE

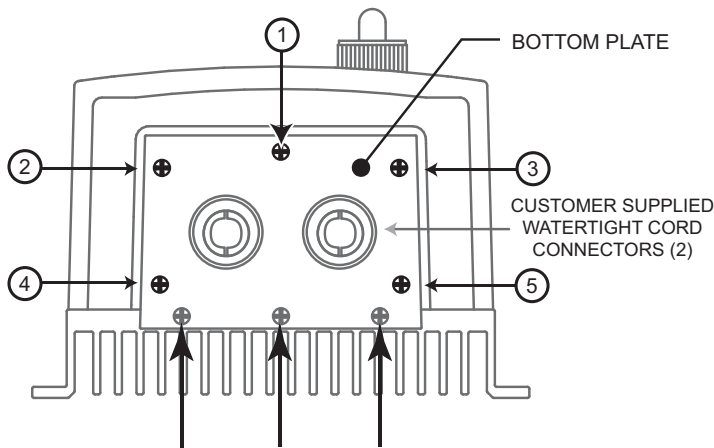
**STEP # 1**  
REMOVE THE SIX (6) PHILLIPS SCREWS ON THE FRONT CASE.

NOTE: THE TWO SHORTER SCREWS (#6 - 32 x 2 1/2) ON THE FRONT CASE ARE USED AT HOLE LOCATIONS 5 & 6.



CUSTOMER SUPPLIED WATERTIGHT CORD CONNECTORS (2)

**STEP # 2**  
REMOVE THE FIVE (5) PHILLIPS SCREWS ON THE BOTTOM PLATE.

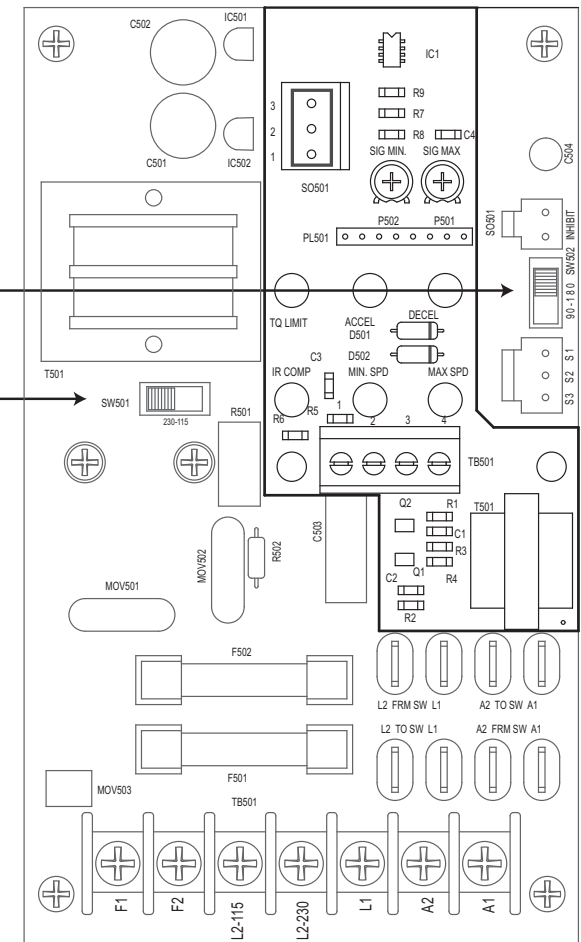


**DO NOT REMOVE**  
THE THREE (3) SCREWS SECURING  
THE BOTTOM PLATE TO THE HEATSINK

**STEP # 3**  
ASSURE THAT THE VOLTAGE SWITCH SETTINGS ARE CORRECT (SW501 & SW502)

ARMATURE VOLTAGE SWITCH (SW502)  
90 or 180 VDC

AC LINE VOLTAGE SWITCH (SW501)  
115 or 230 VAC



## C O N N E C T I O N S

### S T E P # 4

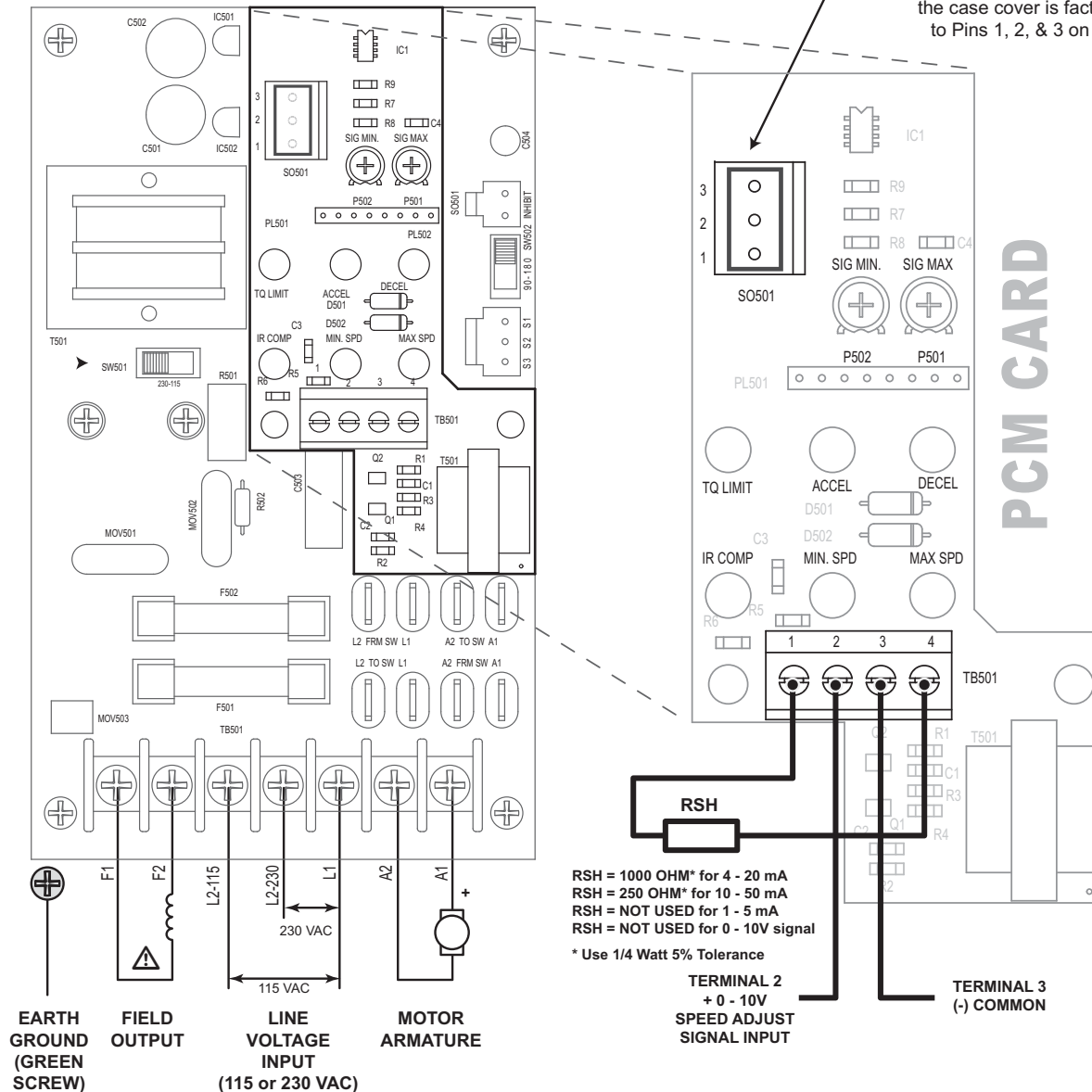
WIRE THE CONTROL  
AS SHOWN THROUGH  
THE CONDUIT HOLES  
IN THE BOTTOM PLATE.

### S T E P # 5

REPLACE SIX SCREWS  
ON FRONT CASE &  
FIVE SCREWS ON  
BOTTOM PLATE.

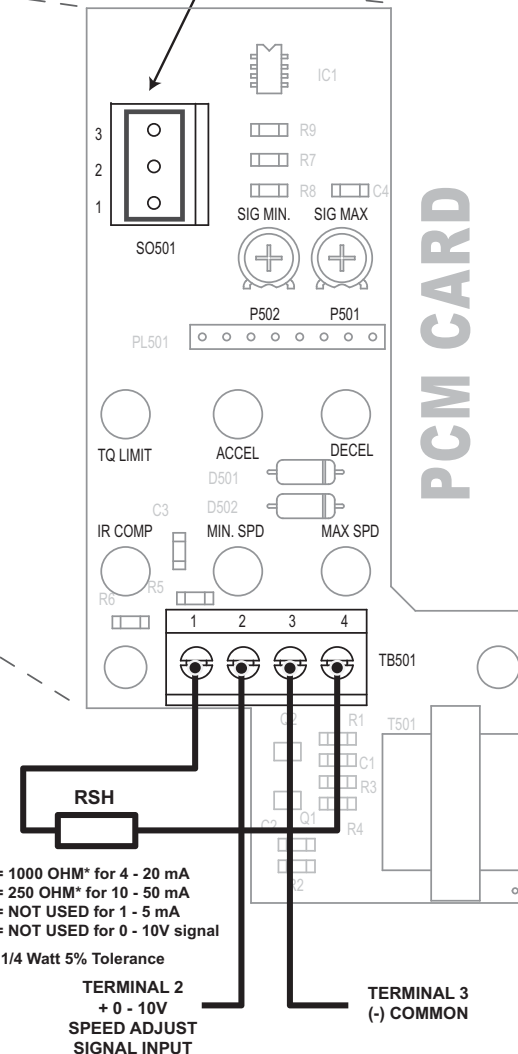
### ! FIELD OUTPUT CONNECTIONS !

The field output is for shunt wound motors only. Do not make any connections to F1 and F2 when using a permanent magnet (PM) motor.



### SIGNAL / MANUAL SWITCH

The signal/manual switch on the case cover is factory-wired to Pins 1, 2, & 3 on SO501.



RSH = 1000 OHM\* for 4 - 20 mA  
 RSH = 250 OHM\* for 10 - 50 mA  
 RSH = NOT USED for 1 - 5 mA  
 RSH = NOT USED for 0 - 10V signal  
 \* Use 1/4 Watt 5% Tolerance

## O P E R A T I O N

### Manual Operation

1. Set the Signal/Manual Switch to the MANUAL position.
2. Set the speed adjust dial to "0" (full CCW).
3. Apply AC line voltage.
4. Set the POWER switch to the ON position.
5. Slowly advance the speed adjust dial CW. The motor slowly accelerates as the dial is turned CW. Continue until the desired speed is reached.
6. To coast the motor to a stop, turn the speed adjust dial to "0" or set the POWER switch to the OFF position.

### Signal Operation

1. Set the Signal/Manual Switch to the SIGNAL position.
2. Apply AC line voltage.
3. Set the POWER switch to the ON position.
4. Apply minimum current or voltage signal. Adjust the SIG MIN trimpot to achieve the desired minimum motor speed.
5. Apply maximum current or voltage signal. Adjust the SIG MAX trimpot to achieve the desired maximum motor speed.