



MAIN CONTROL PC BOARD • 1362-RP01A, 1362-RP01B

MAIN CONTROL PC BOARD REPLACEMENT — Instructions for the replacement of the main PC board on 115V AC and 230V AC Bulletin 1362 controllers, both open chassis and enclosed NEMA Type 4/13.

WARNING:

REMOVE and lock out **AC POWER** at main machine disconnect switch prior to replacing Main Control PC Board. Hazard of electrical shock is present if AC power is not removed.

MAIN PC BOARD FOR NEMA TYPE 4/13, NON-REVERSING CONTROLLER — Replace as follows:

1. Open controller cover assembly on NEMA Type 4/13 models.

NOTE:

Identify and tag all leads being disconnected from PC board terminal block and quick connect terminals.

2. As leads are removed from PC board terminal block, tag each lead with the terminal block number. Write the lead color and/or wire number on Figure 1.
3. Remove the following leads from PC quick connect terminals.
 - 2 Blue leads at connector 11
 - Grey lead at connector 6 (230V AC only)
 - White lead at connector 1
 - Black lead at connector 2
 - 2 Black leads at connector 12
 - Brown lead at connector COM
 - Red lead at connector 7
 - White/Blue lead at connector G1
 - White/Black lead at connector G2
 - Shunt leads at connectors 6 and COM

FIELD SUPPLY (OPTIONAL)

- Orange lead at connector 9
- Grey lead at connector 8
- Black lead at connector 12
- Blue lead at connector 11

4. Remove the 5 Phillips head screws which secure PC board to enclosure. The two longer screws have spacers (stand-offs) between PC board and enclosure — retain screws and spacers (see Figure 2).
5. Remove main PC board from enclosure.

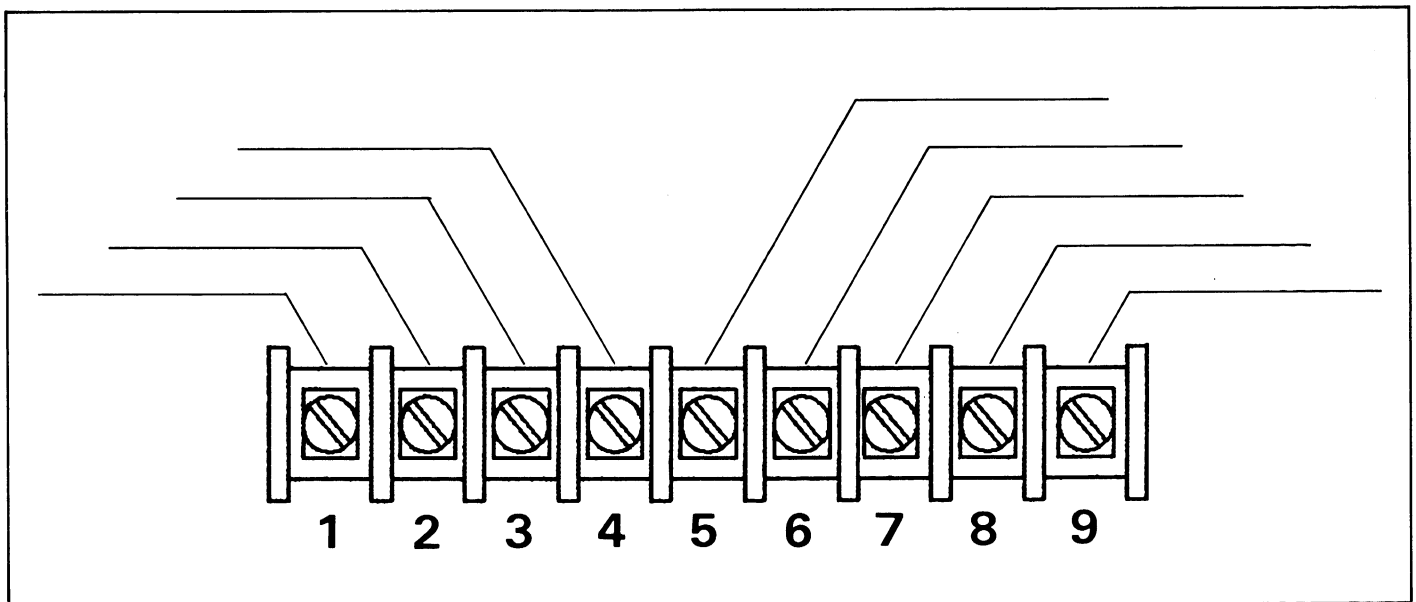


Figure 1 — PC Board Terminal Block Lead Identification

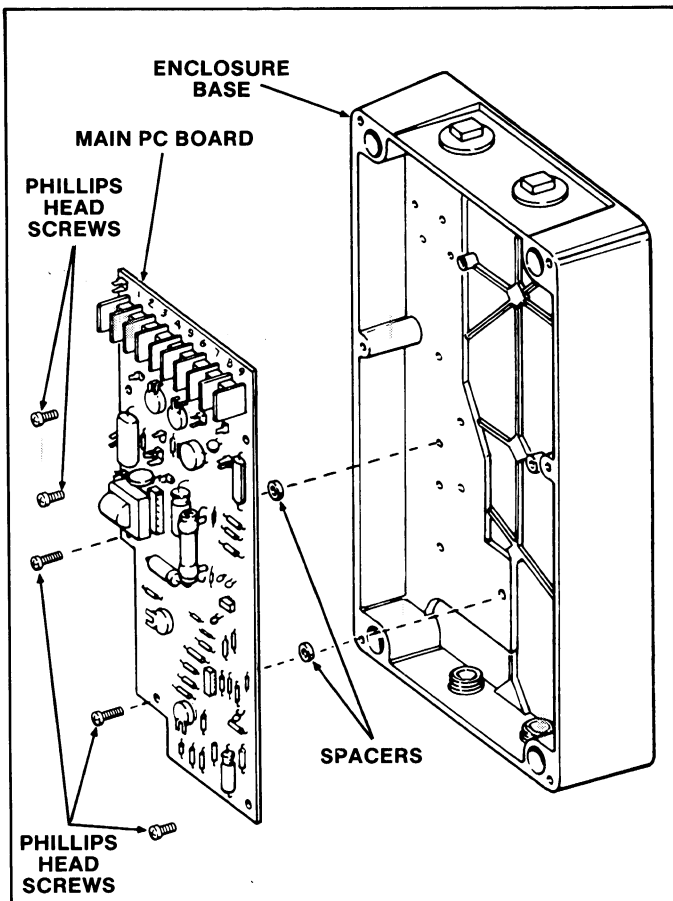


Figure 2 — PC Board Mounting — NEMA TYPE 4/13 ENCLOSURE

MAIN PC BOARD FOR NEMA TYPE 4/13, REVERSING CONTROLLER—Replace as follows:

1. Open controller cover assembly.

NOTE:

Identify and tag all leads being disconnected from PC board terminal block and quick connect terminals.

2. As leads are removed from PC board terminal block, tag each lead with the terminal block number. Write the lead color and/or wire number on Figure 1.
3. Remove the following leads from PC board quick connect:

- 2 Grey leads at connector 8
- Orange lead at connector 9
- 2 Red leads at connector 7
- Yellow lead at connector 6
- 2 Black leads at connector 12
- 2 Blue leads at connector 11
- White lead at connector 1
- Black lead at connector 2
- Brown lead at connector COM
- White/Blue lead at connector G1
- White/Black lead at connector G2
- Shunt lead at connectors 6 and COM

FIELD SUPPLY (OPTION)

- Black lead at connector 12
- Blue lead at connector 11

4. Remove the 5 Phillips head screws which secure PC board to enclosure. The two longer screws have spacers (stand-offs) between PC board and enclosure — retain screws and spacers (see Figure 2).
5. Remove main PC board from enclosure.
6. Place 2 longer Phillips head screws through replacement PC board holes at notches on left side of PC board (see Figure 2) and place spacer on each screw.
7. Position PC board against enclosure, aligning the 2 screws with taped holes on enclosure. Tighten screws.
8. Install remaining 3 screws and tighten.
9. Reconnect leads to PC board quick connectors (see Figure 4).
10. Refer to Figure 1 and reconnect leads to PC board terminal block.

NOTE:

If necessary, or as a double check, refer to Interconnection Diagrams in Bulletin 1362 Controller Instruction Manual for correct wiring. Instruction Manuals are available from your nearest Allen-Bradley Sales Office or Authorized Drives Distributor.

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11. Perform START-UP INSTRUCTION checks and adjustments per Paragraph 6.0 of the Bulletin 1362 Controller Instruction Manual.
12. Install controller cover assembly.

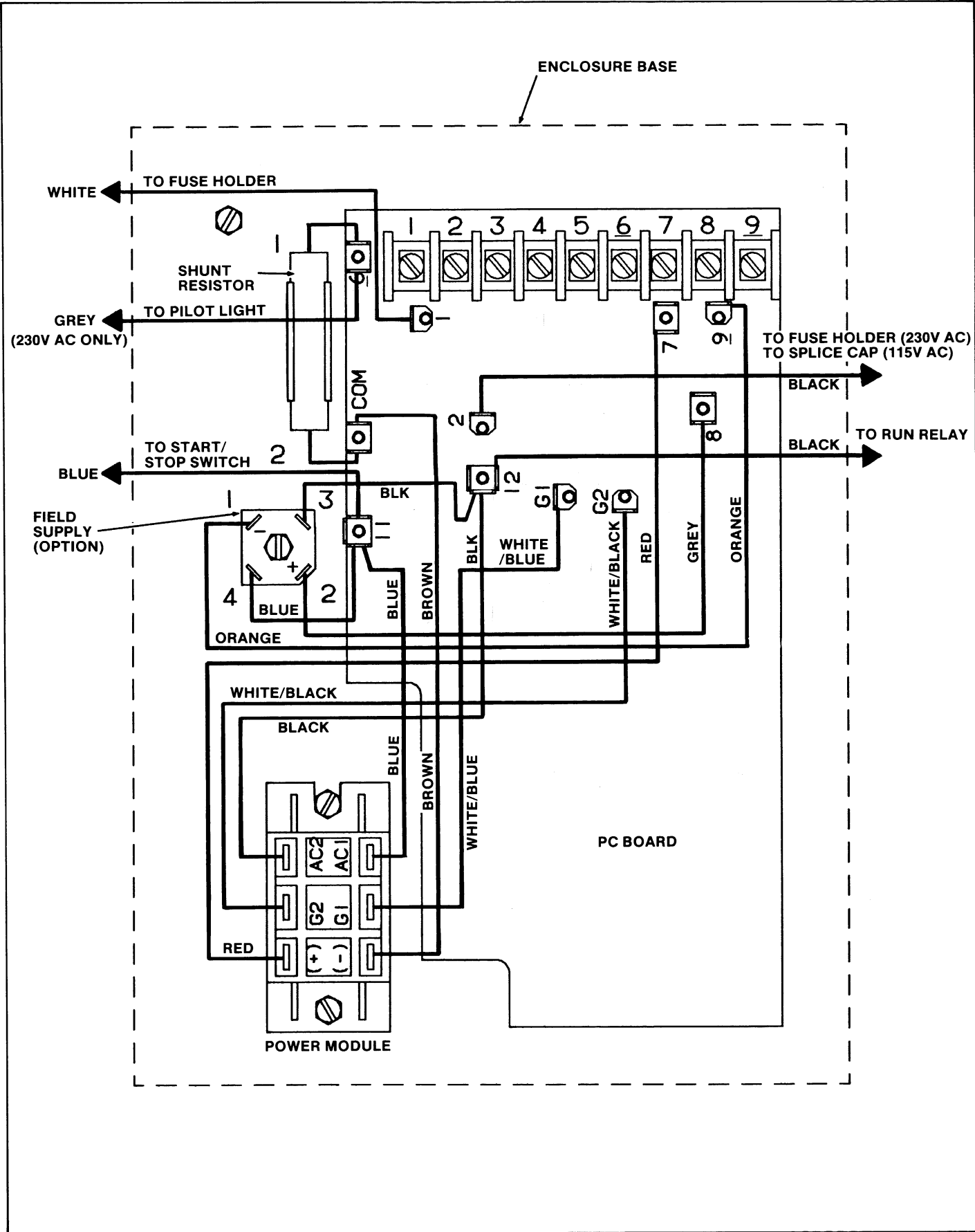


Figure 3 — Wiring Diagram for NEMA TYPE 4/13, NON-REVERSING Controller

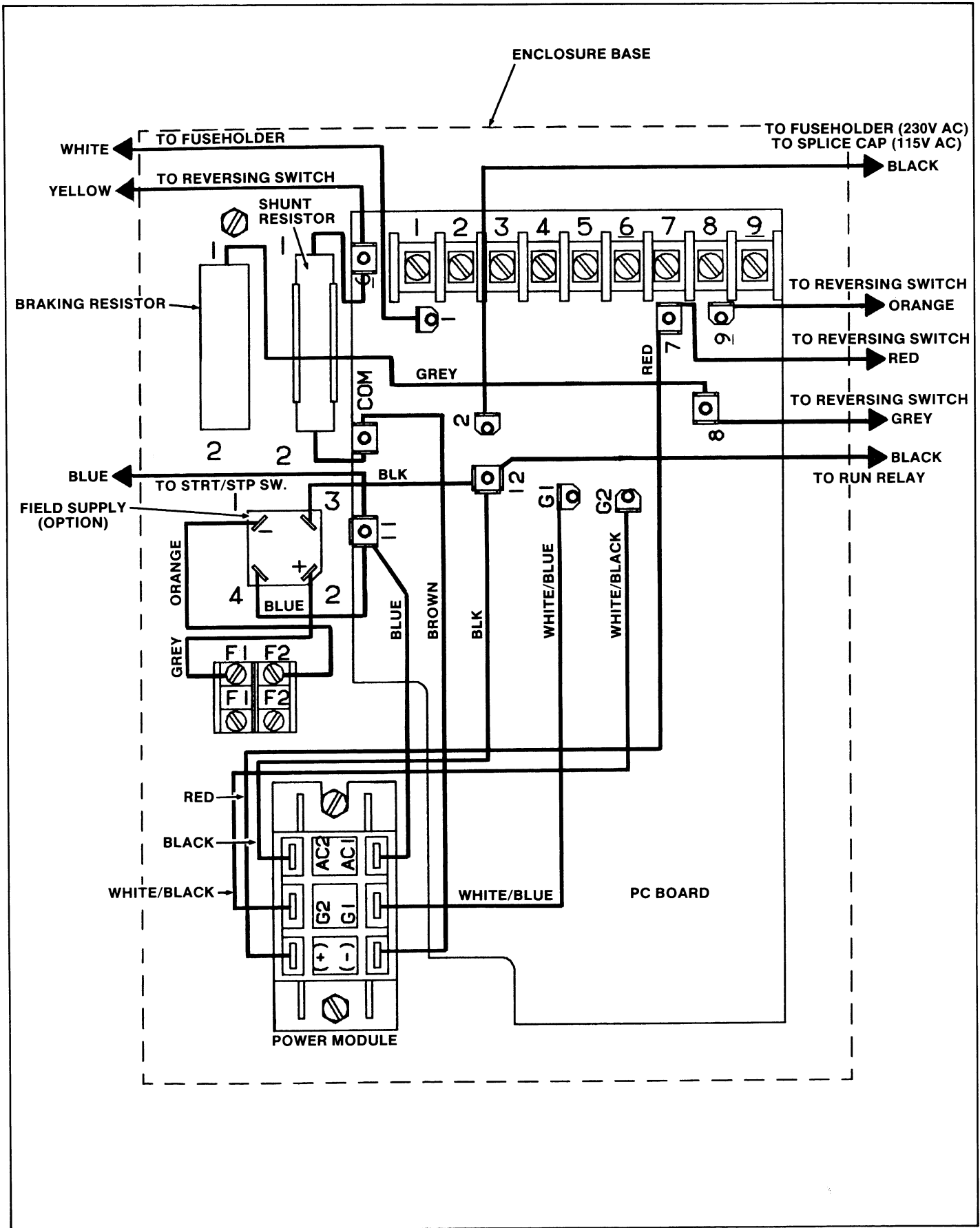


Figure 4 — Wiring Diagram For NEMA TYPE 4/13, REVERSING Controller

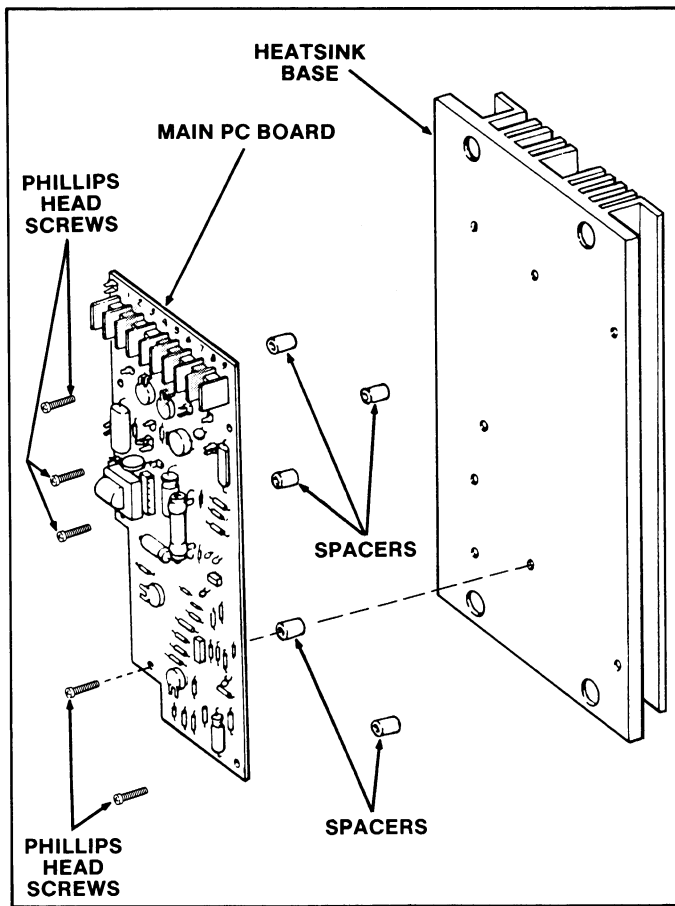


Figure 5 — PC Board Mounting — OPEN CHASSIS

11. Perform START-UP INSTRUCTION checks and adjustments per Paragraph 6.0 of the Bulletin 1362 Controller Instruction Manual.
12. Install controller cover assembly.

MAIN PC BOARD FOR OPEN CHASSIS CONTROLLER—
Replace as follows:

NOTE:

Identify and tag all leads being disconnected from PC board terminal block and quick connect terminals.

1. As leads are removed from PC board terminal block, tag each lead with the terminal block number. Write the lead color and/or wire number on Figure 1.
2. Remove the following leads from PC board quick connect terminals.
 - White lead between 1 and 11
 - Black lead between 2 and 12
 - Blue lead at connector 11
 - Black lead at connector 12
 - Brown lead at connector COM
 - Red lead at connector 7
 - White/Black lead at connector G2
 - White/Blue lead at connector G1
 - Shunt leads at connectors 6 and COM

FIELD SUPPLY (OPTION)

- Blue lead at connector 11
- Black lead at connector 12
- Orange lead at connector 9
- Grey lead at connector 8

3. Remove the 5 Phillips head screws which secure PC board to heatsink. Also remove the 5 spacers (stand-offs) between PC board and heatsink — retain screws and spacers (see Figure 5).
4. Remove main PC board.
5. Mount replacement PC board to heatsink with the 5 screws. A spacer must be on each screw between PC board and heatsink (see Figure 5).
6. Tighten screws.
7. Reconnect leads to PC board quick connect terminals (see Figure 6).
8. Refer to Figure 1 and reconnect leads to PC board terminal block.

NOTE:

If necessary, or as a double check, refer to Interconnection Diagrams in Bulletin 1362 Controller Instruction Manual for correct wiring. Instruction Manuals are available from your nearest Allen-Bradley Sales Office or Authorized Drives Distributor.

9. Perform START-UP INSTRUCTION checks and adjustments per Paragraph 6.0 of the Bulletin 1362 Controller Instruction Manual.

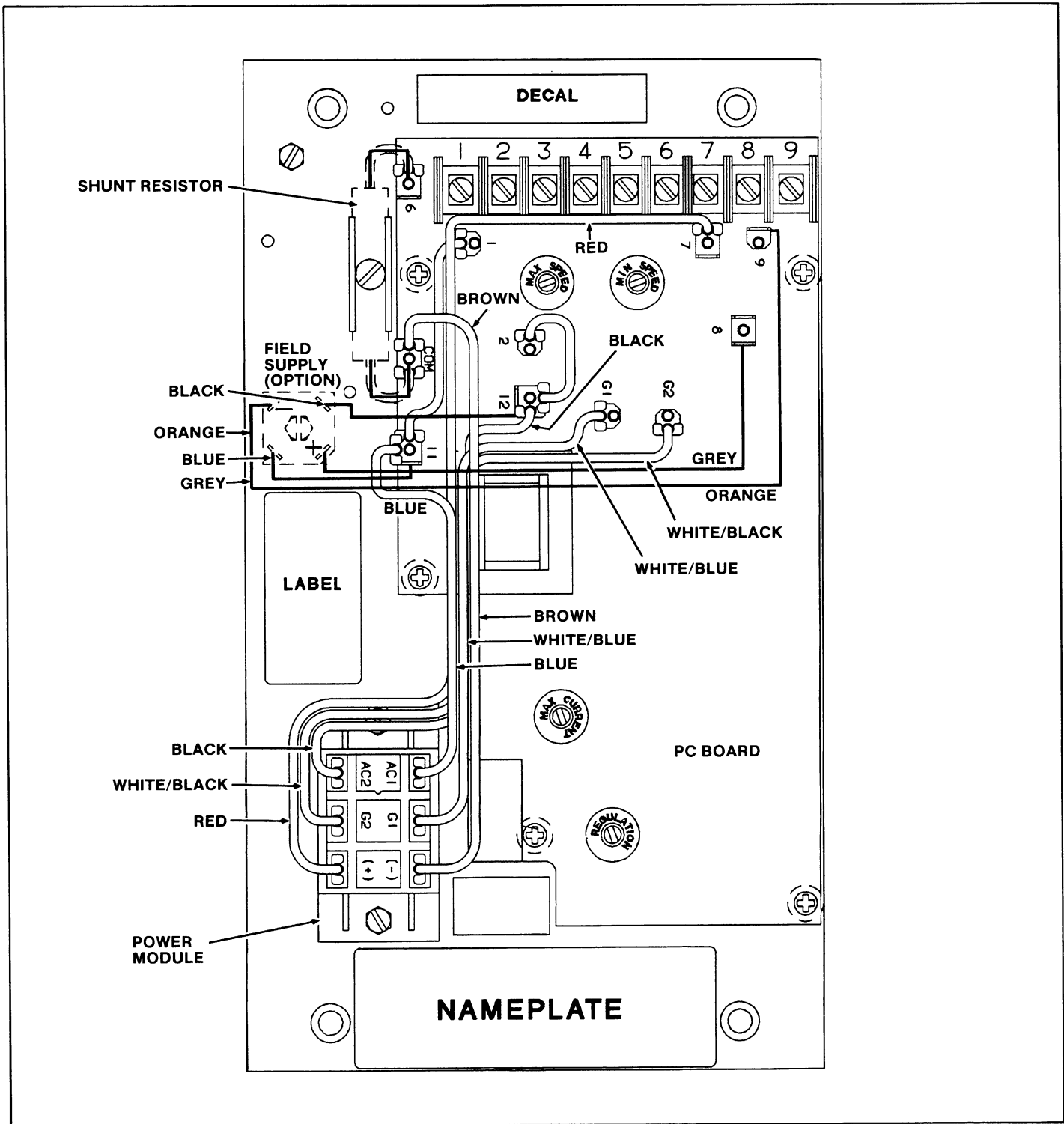


Figure 6 — Wiring Diagram For OPEN CHASSIS Controller



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