**INSTALL RELAY BOARD PER INSTRUCTIONS ON SHEET 4 BEFORE MAKING ANY WIRE CONNECTIONS**

1. Package all items in a box and identify P/N and REV level.
2. Ground to chassis at closest point to minimize voltage loss.
3. Must use twisted pair cable P/N 116094 (to be purchased separately).
4. Do not use OEM provided remote power connection points, vehicle alternator posts, or local ground posts.
5. External temperature sensor must be placed outside the vehicle in a location protected from road debris and heat from vehicle components. Bundle excess length — do not cut and splice.
6. Locate power fuse within 4 feet of power source and before passing through any partitions. Fuses located elsewhere must be pre-approved by TRANS/AIR ENGINEERING DEPARTMENT.
7. Ignition fuse must be located as close as possible to ignition source.
8. Secure all wiring and cable to minimize strain at EEC board connection points.
9. Switches must be mounted in adjacent panel cutouts.
10. Install jumper between terminals 5 and 6.
11. Must use twisted pair cable P/N 116085 (to be purchased separately).
12. Plus those wires together after protective cover is installed. See sheet 4.
13. Torque stud terminal strip nuts to 20 in-lbs.
14. Risk of fire, only screws supplied in hardware kit (Item 23) are permitted for use in terminal strip. Do not substitute unless approved by TRANS/AIR ENGINEERING DEPARTMENT. Torque terminal strip screws to 18 in-lbs. Recommend using tool B16183.
15. Terminal strip uses locking screws that should never be reused. When removing ALWAYS use new hardware kit 5031232 from TRANS/AIR and tighten to 18 in-lbs. Always replace cover after installation and after each time any service is completed. Always follow service instructions. Contact TRANS/AIR at 1-800-453-5246.
16. Push button switch installation

---

**Obsolete**

---

**Pushbutton Switch Installation**

EC3 switches are sized to fit the existing rocker switch panel cutouts for Eaton MGR rockers and CARLING switch contrast rockers.

---

**CARLING Switch Panel Cutout**

- Remove tabs indicated below.
EC3 BOARD INSTALLATION INSTRUCTIONS:
16. MOUNT EC3 BOARD (ITEM 1) AND PROTECTIVE COVER MOUNTING BARS (ITEM 40) AS SHOWN.
MARK AND DRILL HOLES. DO NOT USE RELAY BOARD AS A DRILL TEMPLATE.
17. THREAD STANDBOFFS (ITEM 41) ONTO STUDS ON THE PROTECTIVE COVER MOUNTING BARS.
BE SURE TO TIGHTEN STANDBOFF SO THE BASE IS MAKING FIRM CONTACT AGAINST THE MOUNTING BAR SURFACE.
18. MAKE WIRE CONNECTIONS TO THE RELAY BOARD AS SHOWN ON THE WIRING DIAGRAM. ADHERE TO ALL WIRING NOTES ON SHEET 1.
19. ONCE RELAY BOARD WIRING IS COMPLETED, TERMINALS ARE TORQUED, AND TERMINAL STRIP COVER IS INSTALLED, INSTALL THE PROTECTIVE COVER (ITEM 42) AS SHOWN BELOW.
20. PLUG TOGETHER THE MALE AND FEMALE TERMINALS TO MAKE THE WIRE CONNECTIONS BETWEEN THE DIODE MODULE ON THE PROTECTIVE COVER AND THE 2 POSITION STUD TERMINAL STRIP ON THE RELAY BOARD AS SHOWN.
LOOM WIRES WITH 3/8 LOOM (ITEM 27).

HARDWARE KIT INSTALLATION

WARNING:
Risk of fire. Terminal block uses locking screws that should never be reused. When servicing always use new hardware kit 5031119 from Transair and tighten to 15 in-lbs. Always follow service instructions. Contact Transair at 1-800-872-2446.