

**FIELD INSTALLATION IN STYLE-5017/018 ENCL  
AC INPUT LIGHTNING ARRESTOR (EJ1074-01)****PREPARATION**

1) Confirm that the following items were supplied with the field installation kit for the AT10.1 Series AC Input Lightning Arrestor (EJ1074-01):

- VR3 ac input lightning arrestor (manufacturer's p/n RK0040-01)
- mounting bracket (securely fastened to VR3)
- two (2) black self-tapping machine screws

2) Standard hand tools are required for this procedure.

3) Only qualified service technicians should perform the following procedure. Follow your employer's and site safety standards.

**PROCEDURE**

1) Shut down the AT10.1 by opening the ac input circuit breaker (CB1) and the dc output circuit breaker (CB2). Wait several minutes, allowing internal voltages to dissipate.

2) Open the instrument panel door and remove the plexiglas safety shield. Use a voltmeter and verify that all potential voltages on the I/O panel (TB1) are at zero.

3) Locate the mounting bracket (with lightning arrestor) onto the back panel of the AT10.1, in the lower-right corner, underneath the I/O panel (TB1). See page 2 of this document for reference.

4) Line up the two (2) mounting holes on the bracket with standard pre-fab mounting holes on the back panel of the AT10.1. If no mounting holes are supplied on the back panel where needed, transfer drill holes as required. If other components (such as optional dc fuses) already exist in the AT10.1 in this area, the ac input lightning arrestor may also be mounted to the floor of the enclosure shroud. Exact location of the lightning arrestor is not critical.

5) Use the supplied black self-tapping screws to secure the mounting bracket to the back panel of the AT10.1. Run the black and white leads of the ac input lightning arrestor up to the I/O panel (TB1).

6) Remove the three (3) CU-AL compression lugs from the ac input terminals of the I/O panel (TB1-L1, TB1-L2, and TB1-GND).

7) Slip the two (2) BLACK lugged leads of the ac input lightning arrestor (VR3) onto the ac input stud terminals (TB1-L1 and TB1-L2). Polarity is not important.

8) Slip the WHITE lugged lead of the ac input lightning arrestor (VR3) onto the user ground stud terminal (TB1-GND).

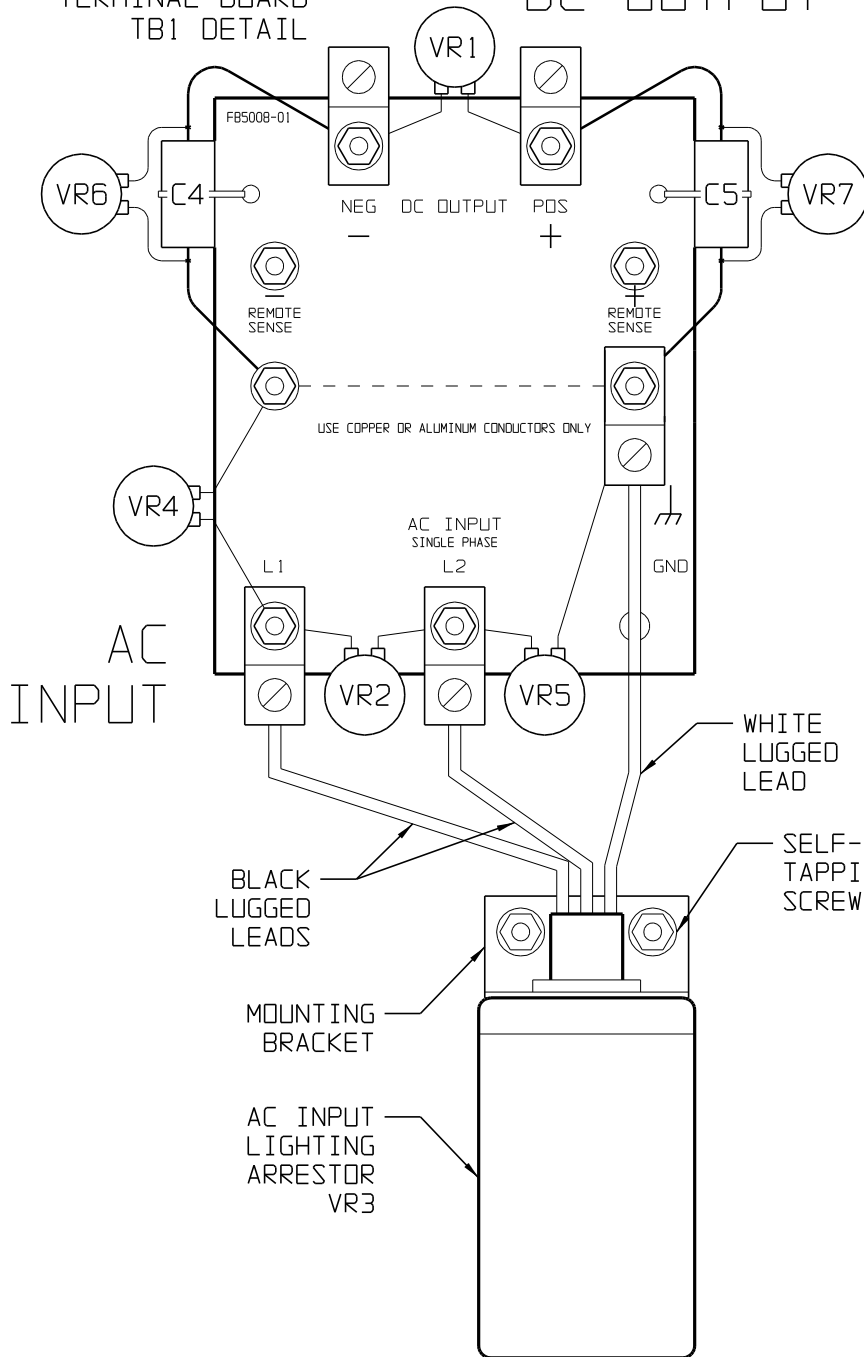
9) Return the three (3) CU-AL compression lugs onto the ac input terminals of the I/O panel (TB1-L1, TB1-L2, and TB1-GND) and tighten securely.

10) Secure the new wiring in place with plastic wire ties. Replace the plexiglas safety shield and close the instrument panel door.

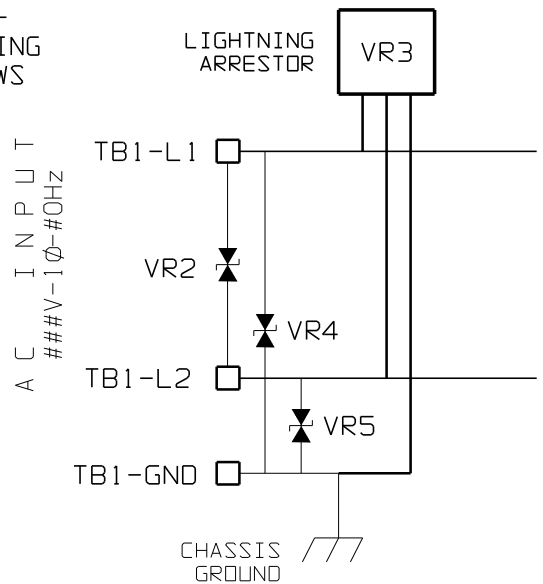
11) Restart the AT10.1 by turning on the dc output breaker (CB2) **first**, followed by the ac input circuit breaker (CB1) **second**. This completes the installation of the ac input lightning arrestor option (EJ1074-01).

ST-5017/5018  
INPUT-OUTPUT  
TERMINAL BOARD  
TB1 DETAIL

DC OUTPUT



SCHEMATIC



				THIRD ANGLE PROJECTION						
				DRAWN BY MCR APPROVED	020410	TITLE SERVICE PROCEDURE: FIELD INSTALLATION OF 1PH G2 AC LIGHTNING ARRESTOR (EJ1074-01)				
				UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:				DRAWING No <b>JA0094-01</b>	REV A	<b>A</b>
A N/A 020410						SCALE NTS	PART No JA0094-01	SHEET 2 OF 2		