

Hypertherm

**ArcWriter™
Electrical Upgrade**

**Field Installation Bulletin
IM-319
(P/N 803190)**

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PURPOSE

This field bulletin provides the necessary information to remove a spark gap, a capacitor, and a resistor and install a new capacitor in the ArcWriter electrical system.

ELECTRICAL UPGRADE KIT

| <u>Part No.</u> | <u>Description</u> | <u>Quantity</u> |
|-----------------|---|-----------------|
| 128311 | <i>ArcWriter Electrical Upgrade kit</i> | |
| 009960 | Capacitor, 4700PF | 1 |
| 803190 | Field Installation Bulletin, ArcWriter Electrical Upgrade | 1 |

INSTALLATION PROCEDURE

Install new capacitor by referring to Fig. 1 and 2, and proceeding as follows:



WARNING



Turn off power to the power supply before working on the torch. Set circuit breaker on power supply to OFF (O) and set the line disconnect switch to OFF. Lock-out and tag-out switch. Electric shock can cause serious injury or death.

1. Turn off power to the power supply. Set circuit breaker on power supply to OFF (O) and set the line disconnect switch to OFF. Lock-out and tag-out switch.
2. Remove 18 screws and remove access panel.
3. Locate terminal block TB1 for wires number 5 (white) and 9 (black) (fig. 1).
4. Carefully cut the wires for capacitor C2 and remove.
5. Carefully cut the wires for spark arrester/resistor assembly GD1/R3 and remove.
6. Loosen the two screws securing wires numbers 5 (white) and 9 (black) to terminal block TB1.
7. Carefully pull wires number 5 and 9 from terminal block TB1.
8. Insert the wires of the new C2 capacitor into the terminal block receptacles (fig. 2). Reinsert wires number 5 and 9 and tighten the two terminal block screws.
9. Check that the new capacitor and wires number 5 and 9 are securely fastened to the terminal block.
10. Reinstall the access panel and secure with 18 screws.

ArcWriter Electrical Upgrade

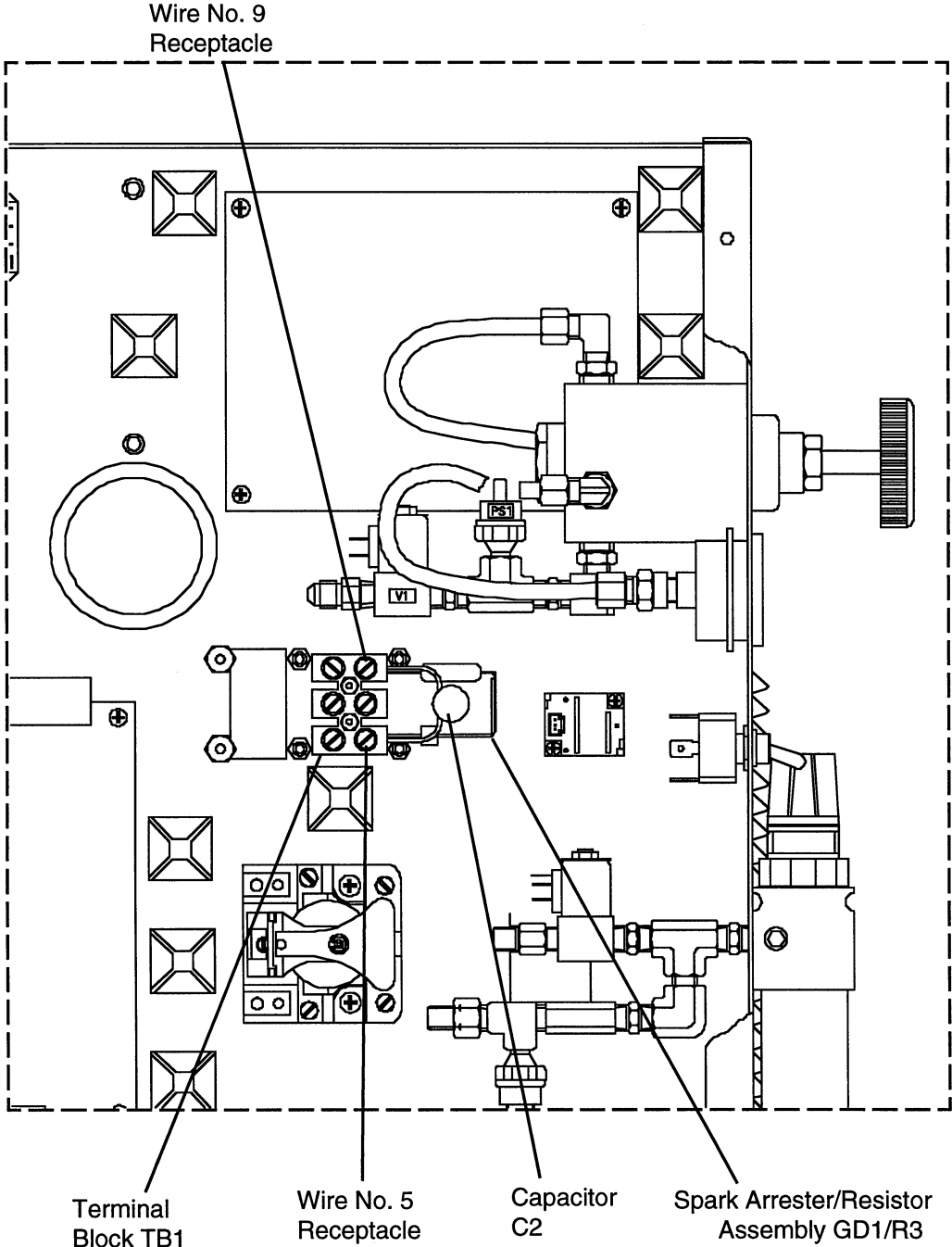


Figure 1 Spark Arrester/Resistor and Capacitor Removal

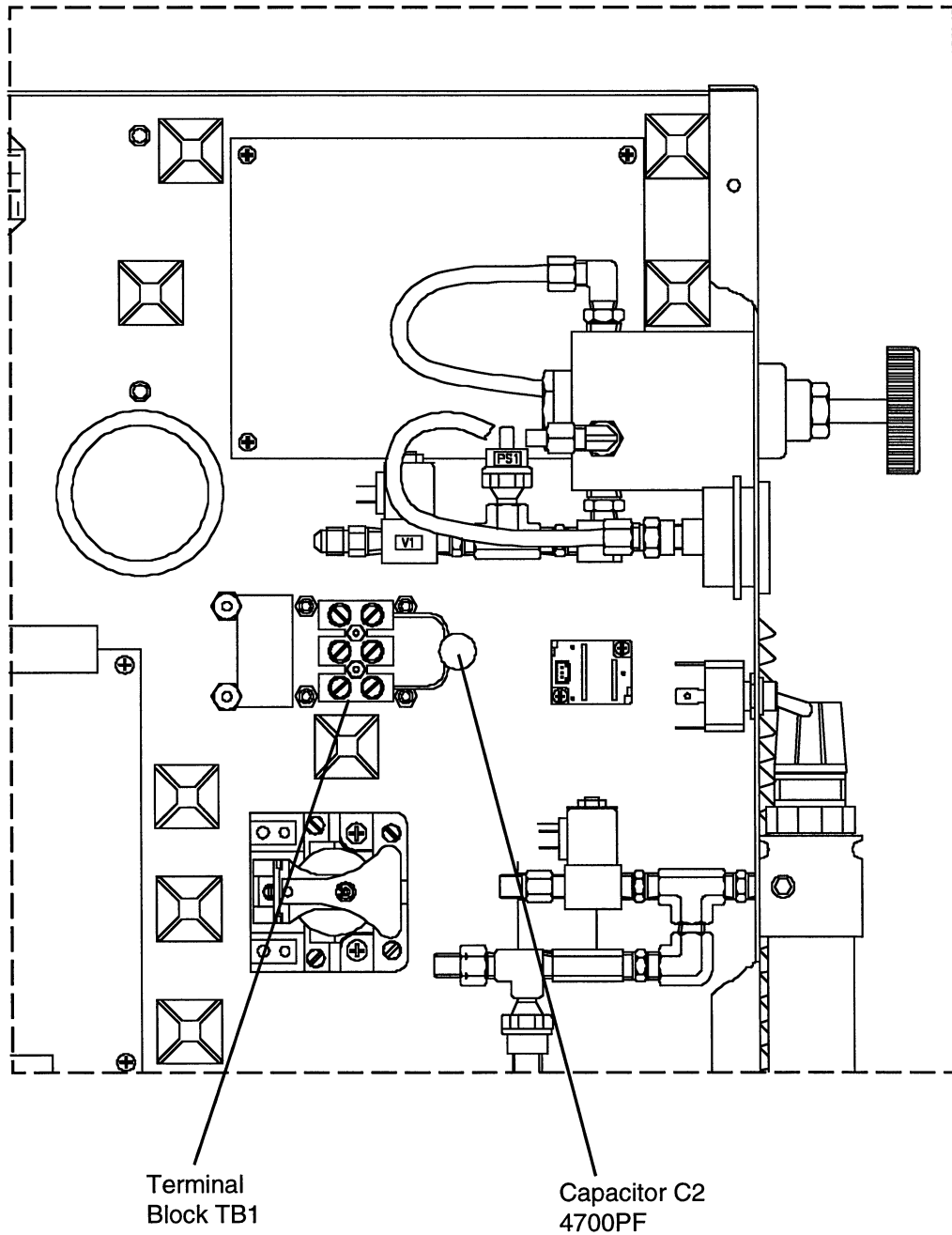


Figure 2 Capacitor C2, 4700PF Installation

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