

# Installation

## Purpose

This manual provides instructions to install varistor kit K94429-XX in the junction box of models using power supplies T16513-G1 through T16513-G5. Varistor K94429-XX replaces varistor installed on the power supply. Applicable models are The Advantage® Series manufactured before June 1991, MPD-3, Highline™ modular units.

The varistor assembly is a surge suppression device which clamps transient voltage spikes and protects the electronics.

## Kit Selection

Each kit contains the part listed below.

Kit Number	Description	Part Number	Qty.
K94429-01	Varistor Assembly, 120 VAC	T17448-G1	1
K94429-02	Varistor Assembly, 240 VAC	T17448-G3	1

## Related Documents



The following document contains additional safety and related information.

- MDE-2531 Pump and Dispenser Start-Up/Service Manual

## Recommended Tools

The following tools may be needed to install the K94429-XX kit.

- pliers, needle nose
- screwdriver, Phillips and standard
- socket set, standard

## Read NFPA 30A and NFPA 70



Before installing the equipment, the installer must read, understand and follow this manual, NFPA 30A (The U.S. Automotive and Marine Service Station Code) and NFPA 70 (The U.S. National Electric Code) and applicable federal, state and local codes and regulations. Failure to do so may adversely affect the safe use and operation of the equipment.

## Safety Information



### Alert Symbol

This is a standard alert symbol. When you see this symbol, along with the following signal words, be alert to the potential for personal injury.

### Signal Words

These signal words alert you to important safety hazards.



**DANGER**

The hazard or unsafe practice will result in severe injury or death.



**WARNING**

The hazard or unsafe practice may result in severe injury or death.



**CAUTION**

The hazard or unsafe practice could result in minor injury.

Follow safety procedures as described in MDE-2531 Pump and Dispenser Start-Up and Service Manual.

## Before You Begin

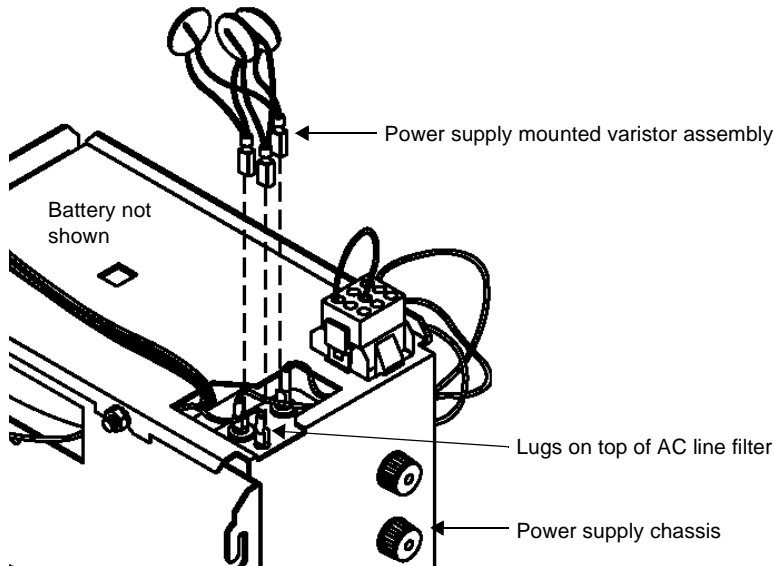


- 1 Read all instructions before beginning.
- 2 Follow all of the following safety precautions.
  - Barricade the work area.
  - Do not allow vehicles or unauthorized people in work area.
  - Do not smoke or have open flames in work area.
  - Do not use power tools in work area.
  - Wear protective gear while performing this procedure.
- 3 Record all electronic and mechanical totals.
- 4 Isolate each pump at distribution box.
- 5 For both pumps and dispensers, turn off all power to unit including unit lights. Use system circuit breakers. Multiple disconnects may be required. For dispensers also turn off associated STP power and turn off power to all dispensers on same isolation relay if used.

## Removing Varistor Assembly

- 1 Depending on location of power supply, open door or remove panel to gain access to the electronics area. Refer to MDE-2531 Pump and Dispenser Start-Up/Service Manual, for information on gaining access.

Figure 1: Varistor assembly mounted on T16513-G1 through -G5 power supplies.



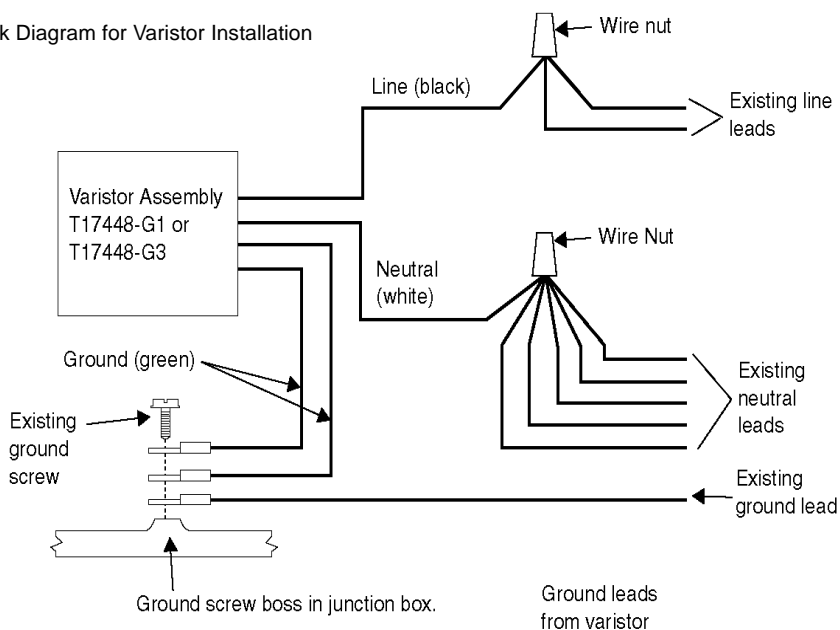
- 2 Disconnect and remove varistor assembly from power supply AC line filter. See Figure 1. **Note: Be sure remaining connections on AC line filter are secure.**
- 3 Discard old varistor assembly.

## Installing New Varistor

- 1 Depending on model, open lower door or remove panel to gain access to junction box.
- 2 Remove junction box cover.
- 3 Remove ground screw in junction box and save.
- 4 Refer to MDE-2531 Pump and Dispenser Start-Up and Service Manual, for specific field wiring diagrams for your model.
- 5 Use the following table and block diagram to make Varistor T17448-G1 or T17448-G3 connections in junction box.

Connect this varistor lead	To existing	By securing with
line (black wire)	line wires	wire nut
neutral (white wire)	neutral wires	wire nut
ground (2 green wires)	junction box boss and ground wire	screw removed in step 3

Block Diagram for Varistor Installation



### WARNING



Spilled or leaking fuels in the vicinity of electrical junction box can be hazardous if box is not properly closed.

Serious fire/explosion and injury/death could result.

Replace all bolts and tighten junction box cover before turning on unit AC power. Do not use gaskets on junction box covers.

- 6 Check all other wiring connections.
- 7 Re-install and tighten junction box cover.
- 8 Re-install any doors or panels.
- 9 Apply power to dispenser and STP. Check unit operation.

