

# INSTALLATION INSTRUCTIONS

## Thermostat Installation (Electric Systems Only)

WHEN MAINTAINING OR TROUBLESHOOTING THESE SYSTEMS, ALWAYS MAKE SURE THAT YOU ARE IN A WELL VENTILATED AREA AWAY FROM HEAT, OPEN FLAMES, OR SPARKS. WEAR GOGGLES WHEN TESTING TO AVOID EYE INJURY. MAKE SURE THAT OPENINGS OF THE VALVE TUBE, OR ATOMIZER ARE POINTED AWAY FROM YOURSELF WHILE TESTING.



THE ETHYL ETHER USED IN THIS STARTING FUEL FOR THESE SYSTEMS IS EXTREMELY FLAMMABLE, TOXIC, HARMFUL, OR FATAL IF SWALLOWED. AVOID CONTACT WITH THE SKIN OR EYES AND BREATHING THE FUMES. IF SWALLOWED DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.

IF FUEL ENTERS EYES OR FUMES IRRITATE EYES, THEY SHOULD BE WASHED WITH LARGE QUANTITIES OF CLEAN WATER FOR 15 MINUTES. A PHYSICIAN—PREFERABLY AN EYE SPECIALIST—SHOULD BE CONTACTED.

DO NOT STORE CYLINDERS IN TEMPERATURES ABOVE 160°F. CONTENTS ARE UNDER PRESSURE. DO NOT INCINERATE, PUNCTURE, OR ATTEMPT TO REMOVE CENTER CORE VALVE OR SIDE SAFETY VALVE FROM CYLINDER.



Surface-Type



Threaded-Type

### Location:

The Threaded-Type should be located in the engine water jacket. The best location would be to remove a plug near the top of the engine. A coolant drain plug can also be used if it is the proper size. The plug size is 1/2"–14 NPT which is a standard.

The Surface-Type should be mounted where it can most easily sense the engine temperature such as against a water jacket side of the engine block.

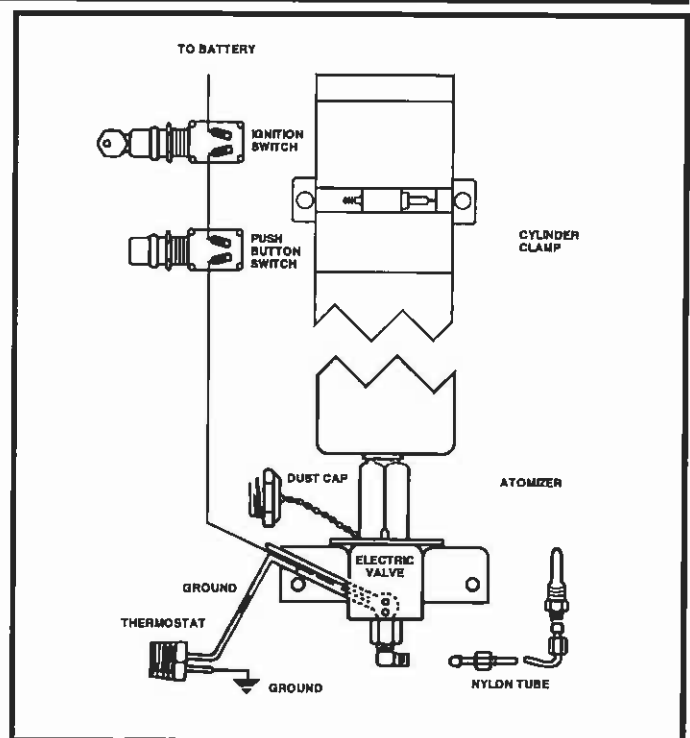
**WARNING:** Never mount against the exhaust manifold since the temperatures are too high and will destroy the thermostat.

Make sure that there is no air gap between the metal face of the unit and the engine.

**WIRING:** Wire one lead of the thermostat to ground and the second lead to the valve (see wiring diagram). The Surface-Type can be grounded by putting the lead under the mounting bolt. The Threaded-Type can be grounded to any convenient spot on the engine.

### Testing:

1. Read the **DANGER** section above. While engine is cold, test as follows: Press push button for two to five seconds and release. The valve plunger should move up and stay up until the push button switch is



released. If it does not move up, the temperature may be too warm to close the thermostat. If this test is okay, go on to the second test.

2. Start engine and leave running until it is up to operating temperature. Press push button for two to five seconds. The valve plunger should NOT move up because the thermostat opens the electric circuit, causing the valve to become inoperative. If it does move up, check the wiring and temperature where the ether thermostat is located. If these are okay, replace the ether thermostat.
3. After unit tests properly, install starting fluid cylinder in valve, being sure that the gasket is in place.