

# HORTON

## INDUSTRIES, INC.

### AIR CONDITIONING PRESSURE SWITCH/VALVE KIT INSTALLATION INSTRUCTIONS

#### I. INTRODUCTION

Horton's Air Conditioning Pressure Switch/Valve Kit comes with three optional installation procedures. Connections must be made on the high pressure or discharge side of the system.

Read this manual carefully, making full use of its explanations and instructions. The "Know How" of safe continuous, trouble free operation depends on the degree of your understanding of the system and your willingness to keep all components in proper operating condition. Pay particular attention to all **NOTES**, **CAUTIONS**, and **WARNINGS** to avoid the risk of personal injury or property damage. It is important to understand that these **NOTES**, **CAUTIONS**, and **WARNINGS** are not exhaustive. Horton can not possibly know or evaluate all conceivable methods in which service may be performed, or of the possible hazardous consequences of each method.

Accordingly, anyone who uses a procedure which is not recommended by Horton must first satisfy themselves that neither their safety or the safety of the product will be jeopardized by the service method selected.

#### CAUTION

The air conditioning system contains refrigerant under high pressure, severe personal injury may result from improper service procedures.

- Service should only be performed by qualified service personnel.
- Wear safety goggles when servicing the refrigeration system.
- Do not heat Refrigerant 12 above 125°F [51.7°C].
- Always work in a well-ventilated area or room.

#### II. INSTALLATION.

##### TAPPING INTO A 3/8" OR 1/2" O.D. METAL LINE ON HIGH PRESSURE SIDE OF SADDLE ASSEMBLY.

- Slide Channel onto High Pressure Line (See Fig. 1).
- Lock Channel onto High Pressure Line with Slide Lock (See Fig. 1).
- Screw O'ring Gasket Core Pin sub-assembly into Slide Lock (See Fig. 1).
- Screw Housing and Freon Pressure Switch into Slide Lock (See Fig. 1).

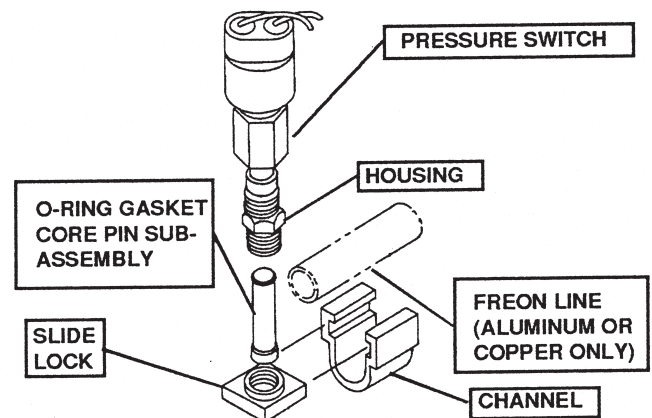


FIGURE 1

##### SPLICING INTO A 13/32" FLEXIBLE HOSE LINE WITH VALVE/TEE.

#### CAUTION

The air conditioning system contains refrigerant under high pressure. To avoid personal injury, the system must be drained of all refrigerant prior to starting the following procedures.

- Insert Valve/Tee into flexible hose (See Fig. 2).
- Tighten Hose Clamps securing Valve/Tee into hose (See Fig. 2).
- Install Pressure Switch onto Valve/Tee (See Fig. 2).

- Evacuate and recharge A/C system.

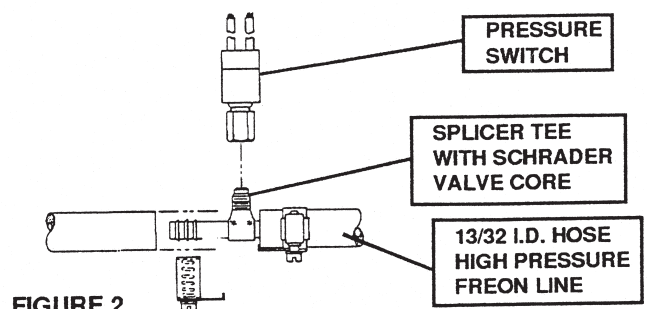
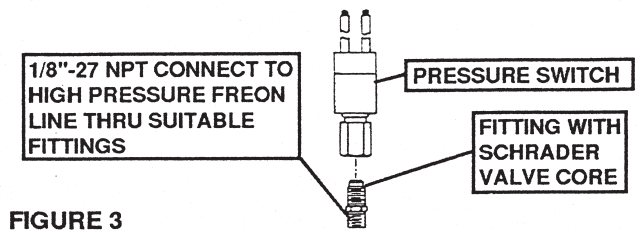


FIGURE 2

**SCREWING VALVE/PLUG INTO A 1/8" NPT HOLE IN HIGH PRESSURE SIDE OF AIR CONDITIONING SYSTEM.**

- A. Connect Valve/Plug to high pressure line (See Fig. 3).
- B. Screw Pressure Switch to Valve/Plug (See Fig. 3).

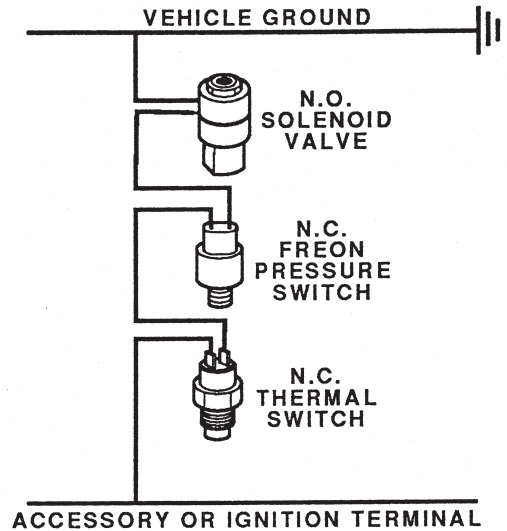


**FIGURE 3**

**III. ELECTRICAL CONNECTIONS.**

**COMBINATION OF BASIC N.C. ELECTRICAL CONTROL SYSTEM AND OPTIONAL AIR CONDITIONING CONTROL SYSTEM (SEE FIG. 4).**

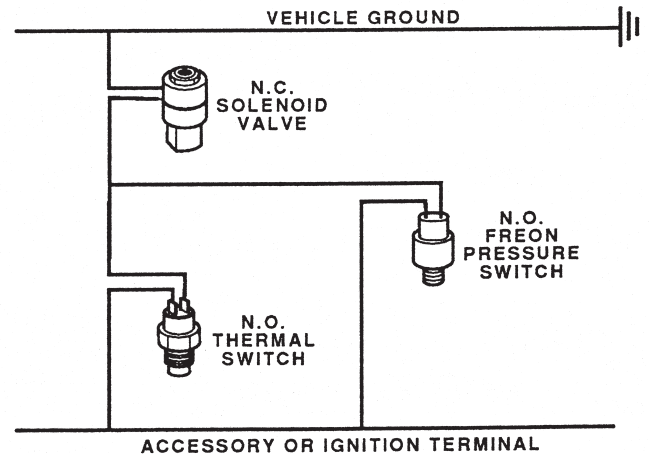
- A. Remove battery cable from battery.
- B. Install N.C. Freon Pressure Switch into high pressure Freon line of air conditioning system.
- C. Disconnect lead connecting N.O. Solenoid Valve to N.C. Thermal Switch.
- D. Connect one lead of N.C. Freon Pressure Switch to lead of N.O. Solenoid Valve.
- E. Connect other lead of N.C. Freon Pressure Switch to lead of N.C. Thermal Switch.
- F. Connect battery cable to battery.



**FIGURE 4**

**COMBINATION OF BASIC N.O. ELECTRICAL CONTROL SYSTEM AND OPTIONAL AIR CONDITIONING CONTROL SYSTEM (SEE FIG. 5).**

- A. Remove battery cable from battery.
- B. Install N.O. Freon Pressure Switch into high pressure Freon line of air conditioner.
- C. Connect one lead of N.O. Freon Pressure Switch to lead connecting N.C. Solenoid Valve to N.O. Thermal Switch.
- D. Connect other lead of N.O. Freon Pressure Switch to vehicle accessory or ignition terminal
- E. Connect battery cable to battery.



**FIGURE 5**

**FOR FURTHER ASSISTANCE, CALL  
HORTON HOTLINE 1-800-621-1320**

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