

INSTALLATION INSTRUCTIONS

Evaporator Freeze Thermostat

NASA00201FS

NOTE: Read the entire instruction manual before starting the installation.

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause death, personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing. Follow all safety codes. Wear safety glasses, protective clothing and work gloves. Use quenching cloths for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and the current editions of the National Electrical Codes (NEC) NFPA 70.

In Canada, refer to the current editions of the Canadian Electrical Code CSA C22.1.

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words **DANGER**, **WARNING** and **CAUTION**. These words are used with the safety-alert symbol. **DANGER** identifies the most serious hazards which **will** result in severe personal injury or death. **WARNING** signifies hazards which **could** result in personal injury or death. **CAUTION** is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. **NOTE** is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing, modifying or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.

CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.



WARNING



EXPLOSION HAZARD

Failure to follow this warning could result in death, serious personal injury, and/or property damage.

Never use air or gases containing oxygen for leak testing or operating refrigerant compressors. Pressurized mixtures of air or gases containing oxygen can lead to an explosion.

INTRODUCTION

This instruction covers the installation of Evaporator Freeze Thermostat Part No. NASA00201FS on residential split-system air conditioners and heat pumps.

DESCRIPTION AND USAGE

This device is designed to prevent damage to the compressor by shutting down the outdoor section in the event of indoor coil freeze-up.

The kit contains the following items:

Description	Quantity
Temperature switch	1
Pipe strap with hardware	1
Installation Instructions	1

Figure 1 Switch



L14S012

FIELD SUPPLIED MATERIALS:

- Insulation to wrap switch
- Wire Nuts
- Wire Ties

INSTALLATION

MOUNT THERMOSTAT

Make sure all power to unit is turned off.



WARNING

ELECTRICAL SHOCK HAZARD

Failure to turn off electric power could result in personal injury or death.

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position and install a lockout tag. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.



CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in unit damage. Exercise extreme caution when drilling holes. Do not puncture coil and/or tubing.

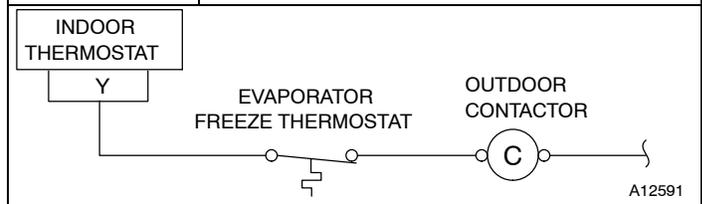
1. Install Evaporator Freeze Thermostat on vapor tube near indoor coil using strap provided in kit. (See **Figure 1**) Make sure switch is secure by tightening with provided hardware.
2. Insulate Thermostat with field supplied pipe insulation or equivalent.
3. Route thermostat wires to indoor unit low voltage compartment.
4. Wire Evaporator Freeze Thermostat in series with Y (single-stage) or Y1 (two-stage) low-voltage wire from indoor thermostat at indoor unit, to outdoor unit. (See **Figure 3** through **Figure 6**)
5. Dress thermostat wires as required.

Figure 2 Mounting



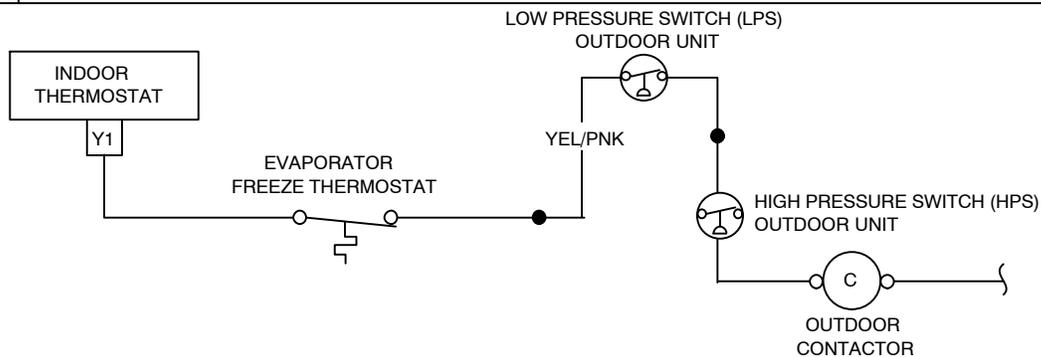
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Figure 3 Evaporator Freeze Thermostat Wiring Single Stage



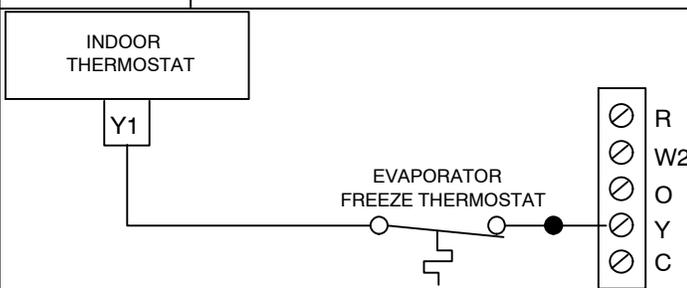
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Figure 4 Evaporator Freeze Thermostat Wiring Two-Stage Non-Communicating AC



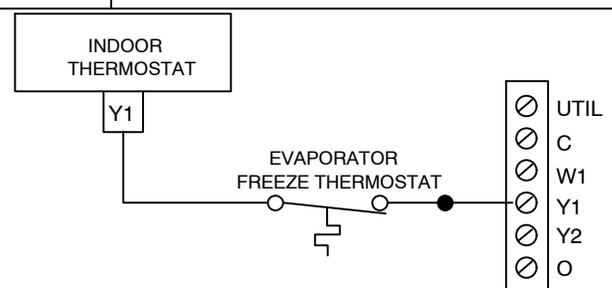
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Figure 5 Evaporator Freeze Thermostat Wiring Two-Stage Non-Communicating HP



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Figure 6 Evaporator Freeze Thermostat Wiring Two-Stage Communicating AC and HP



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