348719-701 Muffler Kit

For Use on 24/26VS 5 Ton Heat Pump Units Only (models 25VNA460/284ANV060)

INSTALLATION INSTRUCTIONS

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 cloth for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and current editions of the National Electrical Code (NEC) NFPA 70. In Canada, refer to current editions of the Canadian electrical code CSA 22.1.

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 these 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 would 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, main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.

⚠ WARNING

UNIT OPERATION AND SAFETY HAZARD

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

Systems containing R-410A refrigerant operate at higher pressures than systems containing R-22 refrigerant. Do not use R-22 refrigerant service equipment or components on systems containing R-410A.

⚠ WARNING

PERSONAL INJURY AND ENVIRONMENTAL HAZARD

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

Relieve pressure and recover all refrigerant before system repair or final unit disposal. Use all service ports and open all flow-control devices, including solenoid valves.

Federal regulations require that you do not vent refrigerant to the atmosphere. Recover during system repair or final unit disposal.

⚠ CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

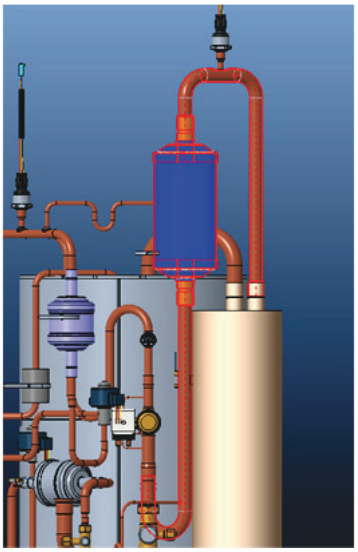
Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

INTRODUCTION

This instruction covers the installation of a Suction Muffler Kit designed to mitigate a "whistle" sound caused by excessive refrigerant gas pulsations

Refer to Table 1 for kit contents..

This kit is designed for use on 24/26VS 5 Ton Heat Pump units only (Model no. 25VNA460/284ANV060).



A221130

Fig. 1 – Muffler Kit

Table 1 – Kit Contents

PART DESCRIPTION	QTY INCLUDED IN KIT
348562-401 Suction Tube	1
348717-401 Adapter Tube	1
LM10KK003 Suction Muffler	1
345265-701 Pressure Transducer Assembly	1

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

INSTALLATION

Step 1 – KIT PRE-ASSEMBLY

The following pre-assembly steps must be taken prior to installing the kit in the unit.

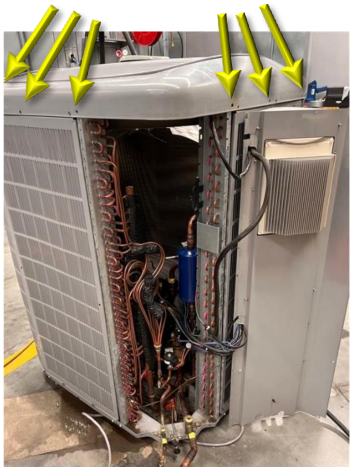
1. Braze the short leg of the Suction Tube to the Suction Muffler

A221131

Fig. 2 – Braze Suction Tube to Suction Muffler

2. Remove the wire harness from the Pressure Transducer.
3. Braze the Pressure Transducer into the orifice in the top of the Suction Tube.

NOTE: Facing the Control Panel corner, remove the front Top Cover screws (at least 6) to allow it to tilt upward enough to clear the Control Panel.



A221215

Fig. 3 – Top Cover Screw Locations

A221141

Fig. 4 – Braze Pressure Transducer

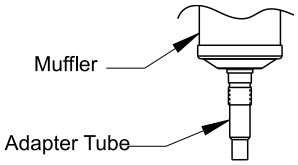
⚠ CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Components must be wrapped in a heat-sinking material such as a wet cloth while brazing.

4. OPTIONAL: If a 3/4" to 7/8" swage tool is not available, Braze the included Adapter Tube to the Suction Muffler. Ensure the large side of the Adapter Tube (7/8") is inserted into the muffler (see Fig. 4).

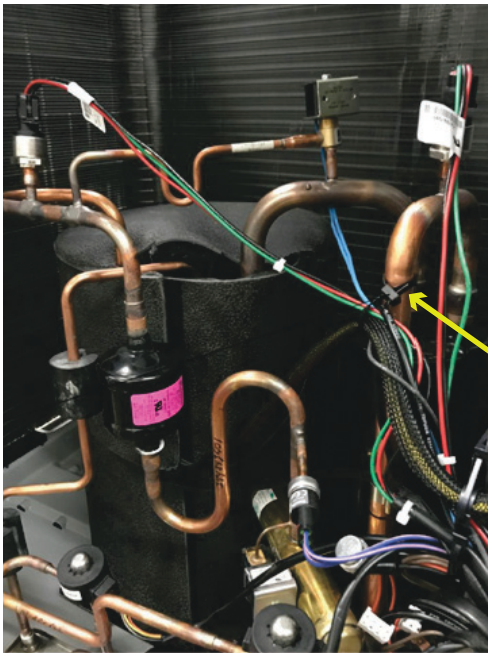


A221159

Fig. 5 – Orientation of Adapter Tube in Muffler

Step 2 – KIT INSTALLATION

1. Remove power from the unit before following these instructions.
2. Pump system down and recover refrigerant
3. Completely remove the Control Panel and place it to one side. Leave the wires attached.
4. Cut the wire tie on the Suction Tube.

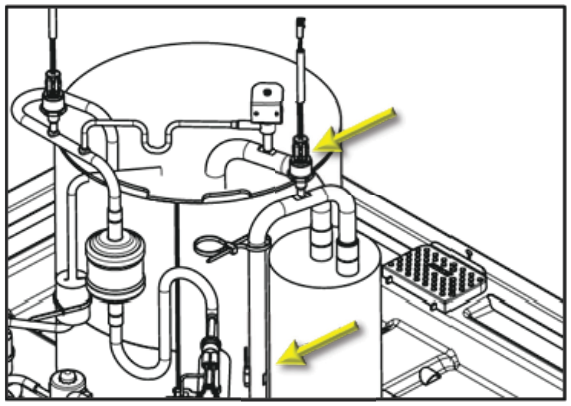


A221143

Fig. 6 – Cut wire Tie on suction Tube

5. Remove the Temperature Sensor form the Suction Tube.

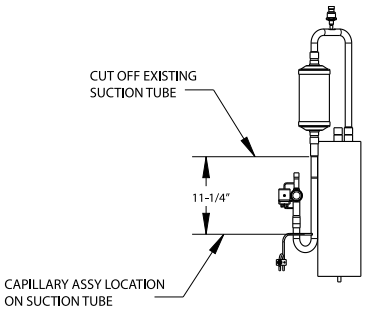
6. Remove the Wire Harness from the Pressure Transducer.



A221133a

Fig. 7 – Temperature Sensor and Wire Harness Location

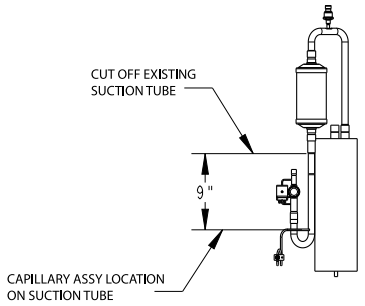
7. Mark for cutting
   a. If a 3/4" to 7/8" swage tool is available, measure from the Suction Charging Port (small capillary tube) 11 1/4" up the tube and make a mark for cutting.



A221200

Fig. 8 – Swage Tool Available - Mark for Cutting

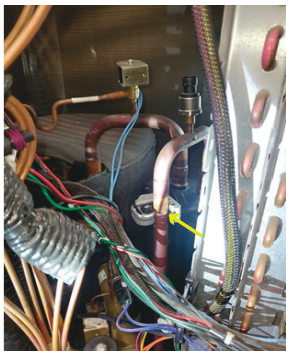
   b. If a 3/4" to 7/8" swage tool is not available, measure from the Suction Charging Port (small capillary tube) 9" up the tube and make a mark for cutting.



A221201

Fig. 9 – Swage Tool Not Available - Mark for Cutting

8. Cut the Suction Tube at the marked line using a tube cutter.



A221134

Fig. 10 – Cut Suction Tube at Marked Line

9. Unbraze the other side of the Suction Tube from the top of the Accumulator, and remove the piece of tube.

A221135

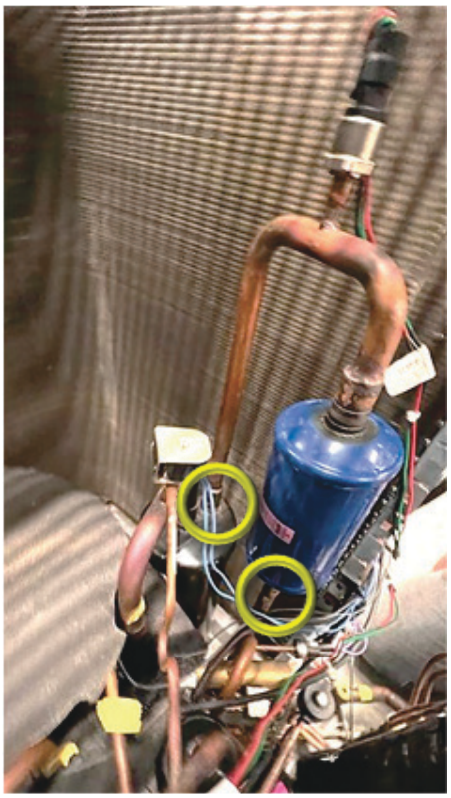
Fig. 11 – Unbraze Suction Tube from Top of Accumulator

10. Bell the exposed Suction Tube out using a 3/4" to 7/8" swage tool. OPTIONAL: If a swage tool is not available and the Adapter Tube is used, skip this step.

A221136

Fig. 12 – Bell Suction Tube

11. Braze in the new Muffler Kit assembly. One braze joint connects the Suction Muffler to the belled-out Suction Tube, and the other connects the new tube to the top of the Accumulator.

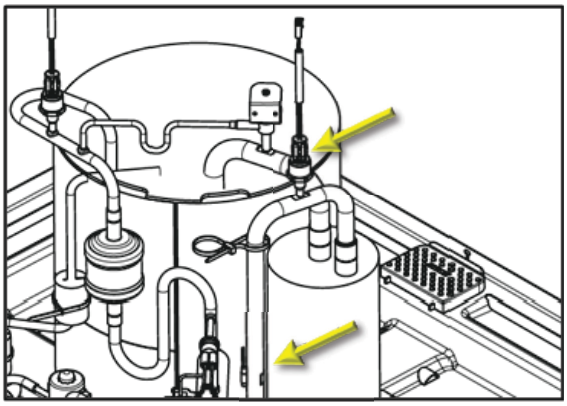


A221137

Fig. 13 – Braze Joint Locations

12. Replace the Temperature Sensor on the Suction Tube below the muffler.

13. Reconnect the wire harness to the pressure transducer.



A221133a

Fig. 14 – Temperature Sensor and Wire Harness Location

14. Use a new wire tie to secure the wires to the Suction Tube below the installed Muffler Kit.

A221140

Fig. 15 – Secure Wires to Suction Tube with Wire Tie

15. Reinstall the unit control panel.
16. Evacuate and charge unit per Installation Instructions provided with unit.

© 2022 Carrier. All rights reserved.