

Installer's Guide

Thermal Grease Application Instructions

Part #	Mfg #	Description
SEL01225	52055KD	1 OZ SYRINGE

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT — These instructions do not cover all variations in systems, nor do they provide for every possible contingency to be met in connection with the installation. Should further information be desired, or should particular problems arise which are not sufficiently covered for the purchaser's purposes, the matter should be referred to your installing dealer or local distributor.

Section 1. Safety

SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

WARNING

HAZARDOUS VOLTAGE!

Failure to follow this Warning could result in property damage, severe personal injury, or death. Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized.

WARNING

REFRIGERANT OIL!

Failure to follow this Warning could result in property damage, severe personal injury, or death. These units use R-410A refrigerant which operates at 50% to 70% higher pressures than R-22. Use only R-410A approved service equipment. Refrigerant cylinders are painted a "Rose" color to indicate the type of refrigerant, and may contain a "dip" tube to allow for charging of liquid refrigerant into the system. All R-410A systems with variable speed compressors use a PVE oil that readily absorbs moisture from the atmosphere. To limit this "hygroscopic" action, the system should remain sealed whenever possible. If a system has been open to the atmosphere for more than 4 hours, the compressor oil must be replaced. Never break a vacuum with air and always change the driers when opening the system for component replacement.

CAUTION

CONTAINS REFRIGERANT!

Failure to follow proper procedures can result in personal illness or injury or severe equipment damage. System contains oil and refrigerant under high pressure. Recover refrigerant to relieve pressure before opening system.

CAUTION

GROUNDING REQUIRED!

Failure to inspect or use proper service tools may result in equipment damage or personal injury. Reconnect all grounding devices. All parts of this product that are capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

WARNING

SERVICE VALVES!

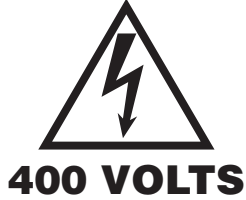
Failure to follow this Warning will result in abrupt release of system charge and may result in personal injury and/or property damage. Extreme caution should be exercised when opening the Liquid Line Service Valve. Turn the valve stem counterclockwise only until the stem contacts the rolled edge. No torque is required.

⚠ CAUTION

HOT SURFACE!

May cause minor to severe burning. Failure to follow this Caution could result in property damage or personal injury. Do not touch compressor.

⚠ WARNING



ELECTRICAL HAZARD

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

WAIT TWO (2) MINUTES after disconnecting power prior to touching electrical components as they may hold a dangerous charge of 400VDC, then verify DC Voltage is less than 42 VDC at inverter test points labeled +VDC and -VDC before servicing board.



If voltage does not drop to 42VDC or less, contact your local service representative

⚠ WARNING

HIGH LEAKAGE CURRENT!

Failure to follow this warning could result in property damage, severe personal injury, or death. Earth connection essential before connecting supply.

⚠ WARNING

BRAZING REQUIRED!

Failure to inspect lines or use proper service tools may result in equipment damage or personal injury. If using existing refrigerant lines make certain that all joints are brazed, not soldered.

Section 2. Thermal Grease - Liquid Cooled Drive Applications (Fig. 1)

To apply the Thermal Grease, the IVSC should be positioned so that the plastic cover is facing down and the cutout for the Liquid Line is facing up.

It is critical that the copper Liquid Line has good thermal contact with the aluminum plate. Proper application of Thermal Grease will ensure this contact.

Apply a small, 1/8" bead of Thermal Grease in the center of the cutout around the entire length. It takes very little grease to create adequate thermal transfer. The included .5-ounce tube contains enough grease for 2-3 applications.

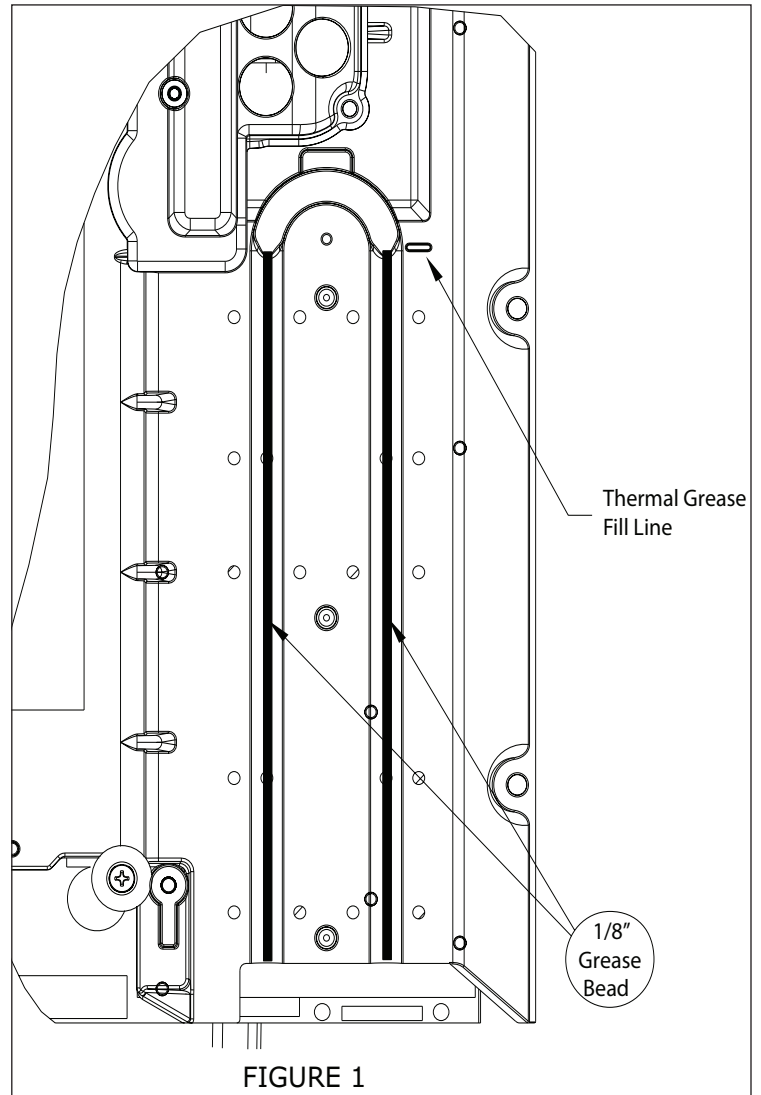


FIGURE 1

Section 3. Thermal Grease - Air Cooled Drive Application 4TXK & 4TYK Models (Fig. 2)

Using the included .5-ounce tube, apply a small, 1/8" bead of Thermal Grease in a zig zag pattern as shown in Figure 2. Ensure your pattern is tight enough to create a very thin layer over entire board. It takes very little grease to create adequate thermal transfer.

NOTE: Graphics are representative only. Other air cooled applications may differ.

Figure 2

