

Installer's Guide

T.V.S. Harness for LSOV

WIR10523

⚠ WARNING: HAZARDOUS VOLTAGE – DISCONNECT POWER BEFORE SERVICING

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

IMPORTANT—This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

GENERAL:

The new wire harness (WIR10523) needs to be installed where the existing latching switchover valve (LSOV) harness is. This new wire harness has a transient voltage suppressor and is used to eliminate a potential voltage spike to the LSOV solenoid when the LSOV gets commanded (This is NOT a safety concern).

This kit is used with the following variable speed heat pump models:

| | |
|------|-------|
| 4TWV | 4TWL9 |
| 4A6V | 4A6L9 |

⚠ WARNING

This information is intended for use by individuals possessing adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacture or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

⚠ WARNING

HAZARDOUS VOLTAGE!

Disconnect all electric power, including remote disconnects before installing or servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Failure to disconnect power before servicing could result in death or serious injury.

KIT CONTENTS:

Open and inspect contents for damage or missing items.

| Qty. | Description | Part Number |
|------|--|------------------|
| 1 | LSOV Wire Harness | WIR10523 |
| 1 | Wiring Diagram (Danfoss Drive) | D157619P05 |
| 1 | Wiring Diagram (VSPD Side Discharge Units) | D160092P01 |
| 1 | Installer Guide | 18-BC107D1-1A-EN |

INSPECTION:

1. Unpack all components of the kit.
2. Check carefully for any shipping damage. If any damage is found, this must be reported immediately and a claim made against the transportation company.
3. Check to be sure all components are in the package. Any missing components should be reported to your supplier at once and replaced with authorized components only.

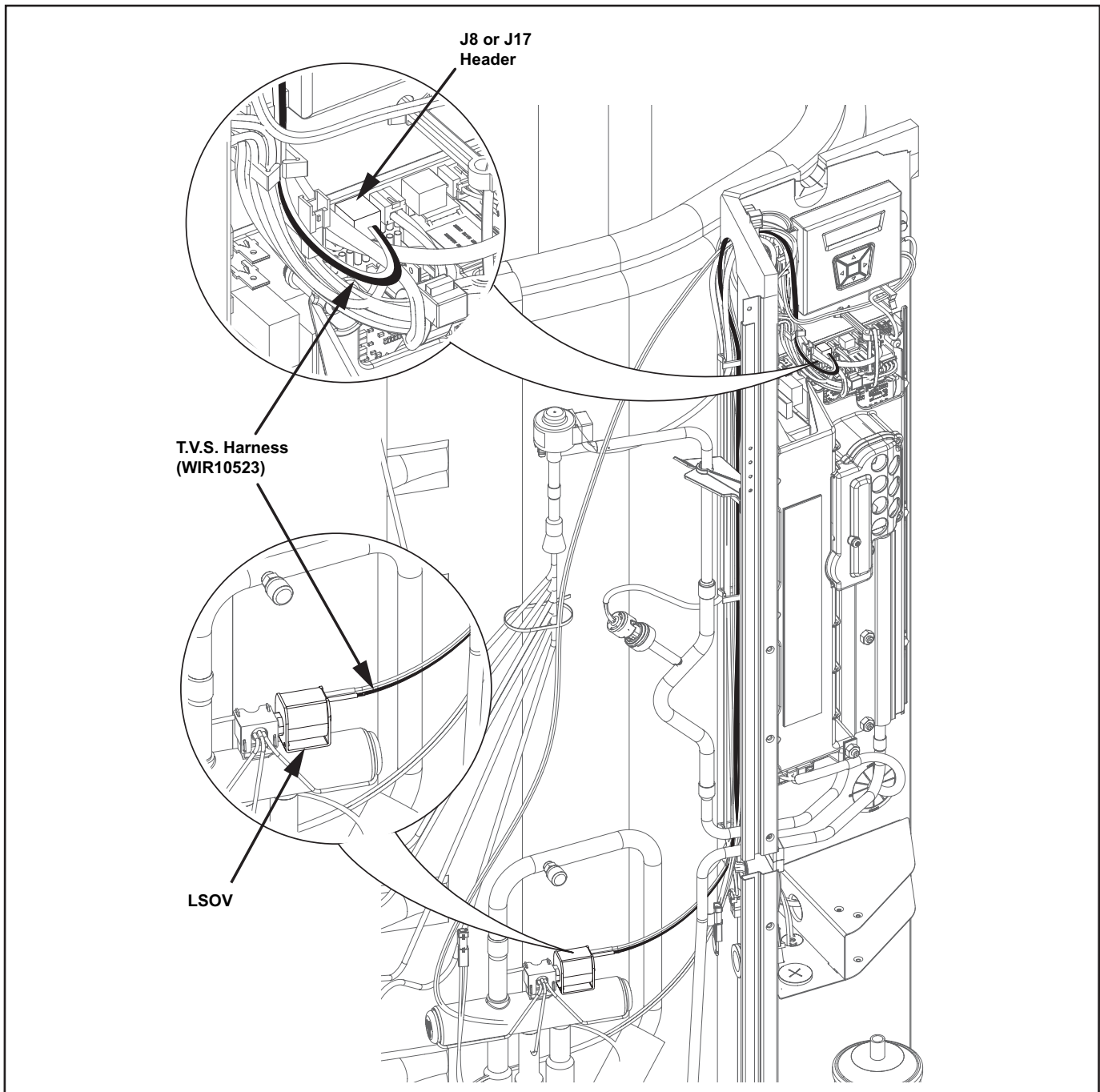
INSTALLATION:

1. Disconnect all the electrical power to the unit.
 - a. Wait two (2) minutes after disconnecting power as the electrical components may hold a dangerous voltage. Verify the DC Voltage is less than 42 VDC as measured from the test points at the bottom of the drive before servicing the drive.
2. Remove the unit control box cover.
3. Remove the unit top which allows access to the wire routing (step not required for side discharge units).
4. Remove the unit side panel to gain access to the LSOV solenoid.

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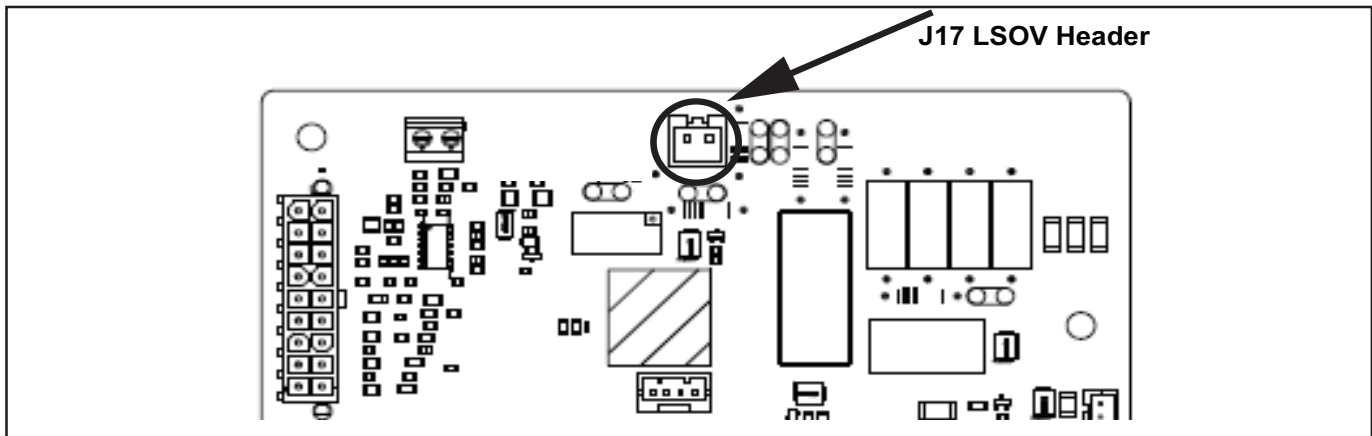
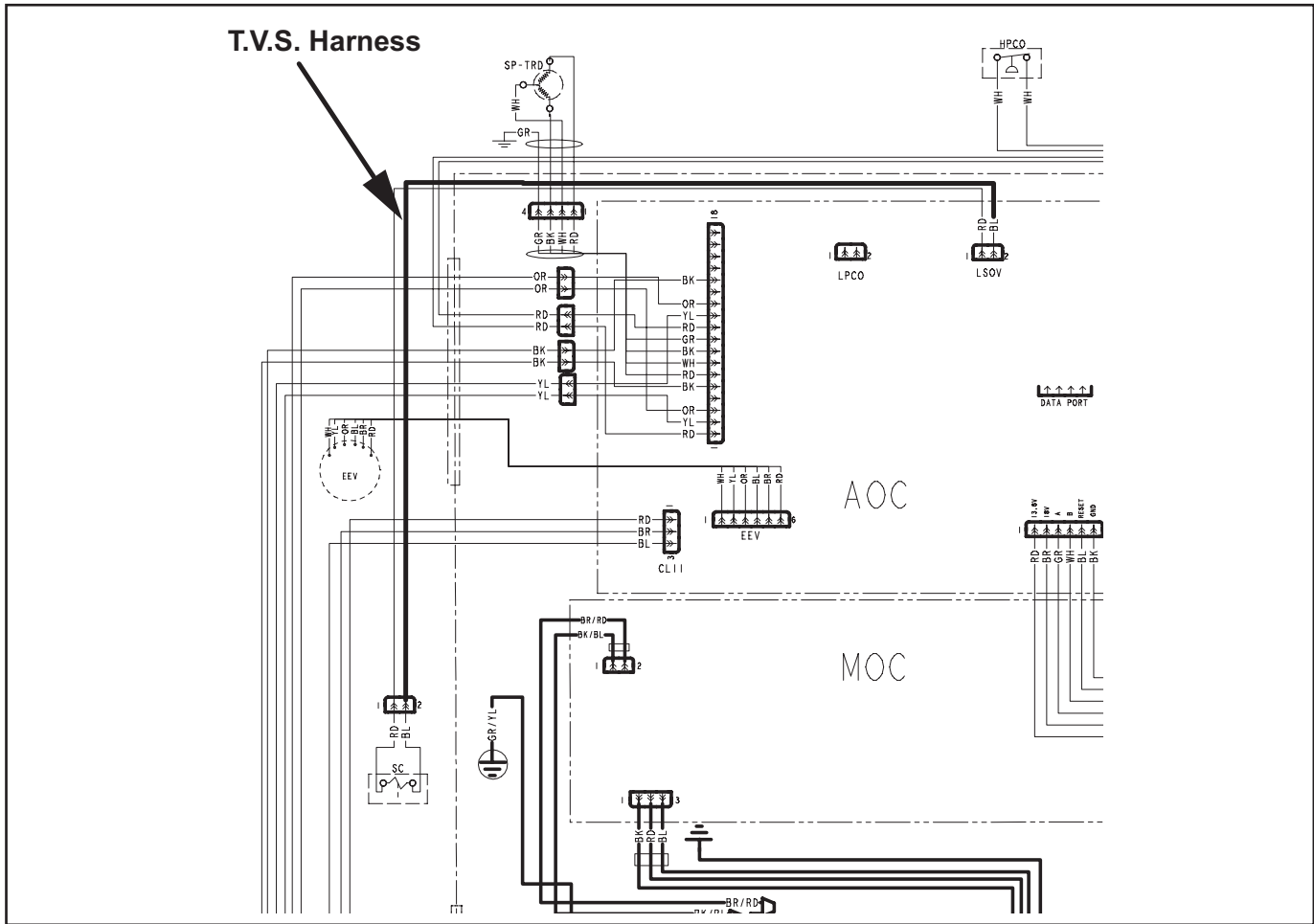
5. Remove the existing LSOV harness.
 - a. Disconnect the LSOV harness from the J8 header on the Danfoss drive or J17 header on the AOC of the variable speed side discharge units.
 - b. Remove several zip ties and disconnect the other end of the harness that connects to the LSOV.
6. Open T.V.S. harness kit and remove the kit contents.
7. Connect the new wire harness (WIR10523). See Figure 1.
 - a. Connect one end of the new wire harness to the LSOV.
 - b. Route the new wire harness through the same way as the LSOV harness that was removed earlier.
 - c. Use the replacement zip ties to secure the new wire harness.
 - d. Connect the other end of the new wire harness into the J8 header on the Danfoss drive or the J17 header on the AOC of the variable speed side discharge unit.
8. Place the wiring diagrams provided with the kit to the inside of the control box cover.
9. Reinstall the unit top (step not required for side discharge models).
10. Reinstall the unit side panel and the control box cover.
11. Connect all the electrical power to the unit and return the unit to operation.

Figure 1: Install T.V.S. Harness (WIR10523)



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Figure 3: T.V.S. Harness Connection Points – VSPD Side Discharge Units



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