

CONTROLS KITS AND ACCESSORIES

508517-01
9/2024
Supersedes 6/2024

MODBUS COMM HARNESS KIT

INSTALLATION INSTRUCTIONS FOR MODBUS COMMUNICATIONS CABLES REPLACEMENT KIT (22A26, 22A27, 24N57, 28B30, 28U75)

CAUTION

Electrostatic discharge can affect electronic components. Take precautions during unit installation and service to protect the unit's electronic controls. Precautions will help to avoid control exposure to electrostatic discharge by putting the unit, the control and the technician at the same electrostatic potential. Neutralize electrostatic charge by touching hand and all tools on an unpainted unit surface before performing any service procedure.

IMPORTANT

Improper installation, adjustment, alteration, service or maintenance can cause personal injury, loss of life, or damage to property. Installation and service must be performed by a licensed professional installer (or equivalent) or a service agency.

WARNING



ELECTRICAL SHOCK HAZARD

STOP! Before you continue, make sure that power to the VFD has been off for at least 10 minutes. The capacitor in the VFD holds high voltage power for up to 10 minutes after power has been disconnected.

WARNING



ELECTRICAL SHOCK HAZARD

Can cause injury or death. Unit must be grounded in accordance with national and local codes.

Line voltage is present at all components when unit is not in operation on units with single-pole contactors. Disconnect all remote electrical power supplies before opening access panel. Unit may have multiple power supplies.

Shipping and Packing List

Package 1 of 1 contains:

- 1 - MODBUS Cables Set
- 1 - Installation Instruction

Table 1. MODBUS Cables

Roof Top Units	Catalog and Part Numbers	Unit Voltage	Number of Cables
LGM 156-300	22A26/622789-01	All	4
LC/LH 156-300	22A27/622789-02	All	3
LGT/LDT 156-300	24N57/622789-03	All	2
LG/LD 156-300	28B30/622789-04	All	3
LC/LH 156-300	28U75/622789-05	All	3

Installation

The MODBUS cables were designed for use with the following rooftop units:

- LCM156-300
- LCT156-300
- LGT156-300
- LGM156-300
- LHT156-300
- LDT156-300
- LCX180-300
- LHX180-240
- LGX180-300

1. Disconnect all power to the roof top unit.
2. Open compressor access panel.
3. (LGM models only) Remove ignition controller enclosure cover.
4. Remove old set of MODBUS cables from unit. Install and route new set of cables in the unit (see FIGURE 1, FIGURE 2, FIGURE 3, FIGURE 4, and FIGURE 5).

NOTE: Replace damage wire ties (field-provided).

5. Install ignition controller enclosure cover.



Table 2. LGM R410-A Catalog & Part Numbers

MODBUS Cable	Catalog Number	Part Number	Quantity
LGM	22A26 / 622789-01	106644-01	2
		106597-01	1
		106647-01	1

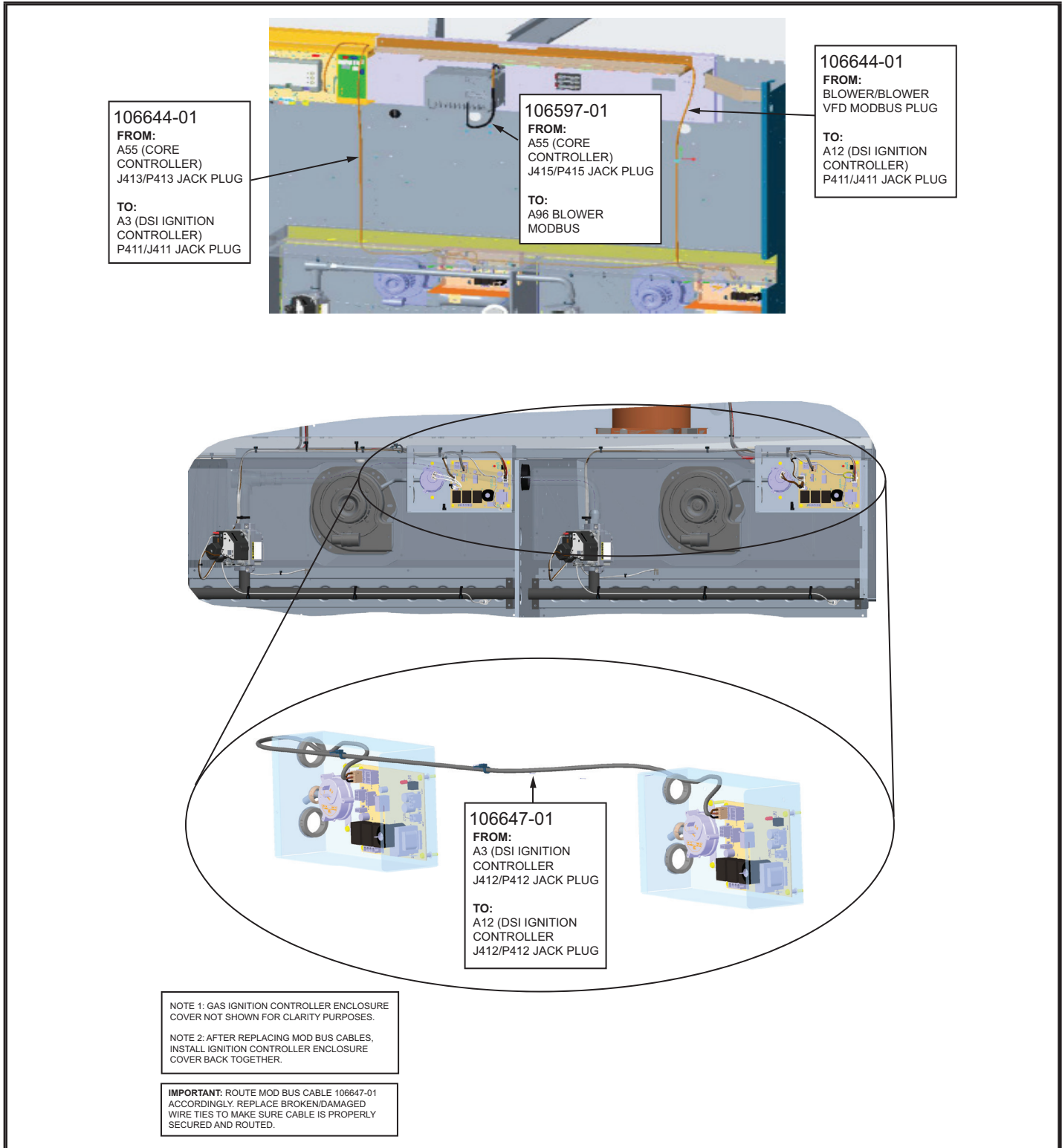


FIGURE 1 LGM Models w/ R410-A

Table 3. LC/LH Catalog & Part Numbers

MODBUS Cable	Catalog Number	Part Number	Quantity
LC/LH	22A27 / 622789-02	106646-01	1
		106597-01	1

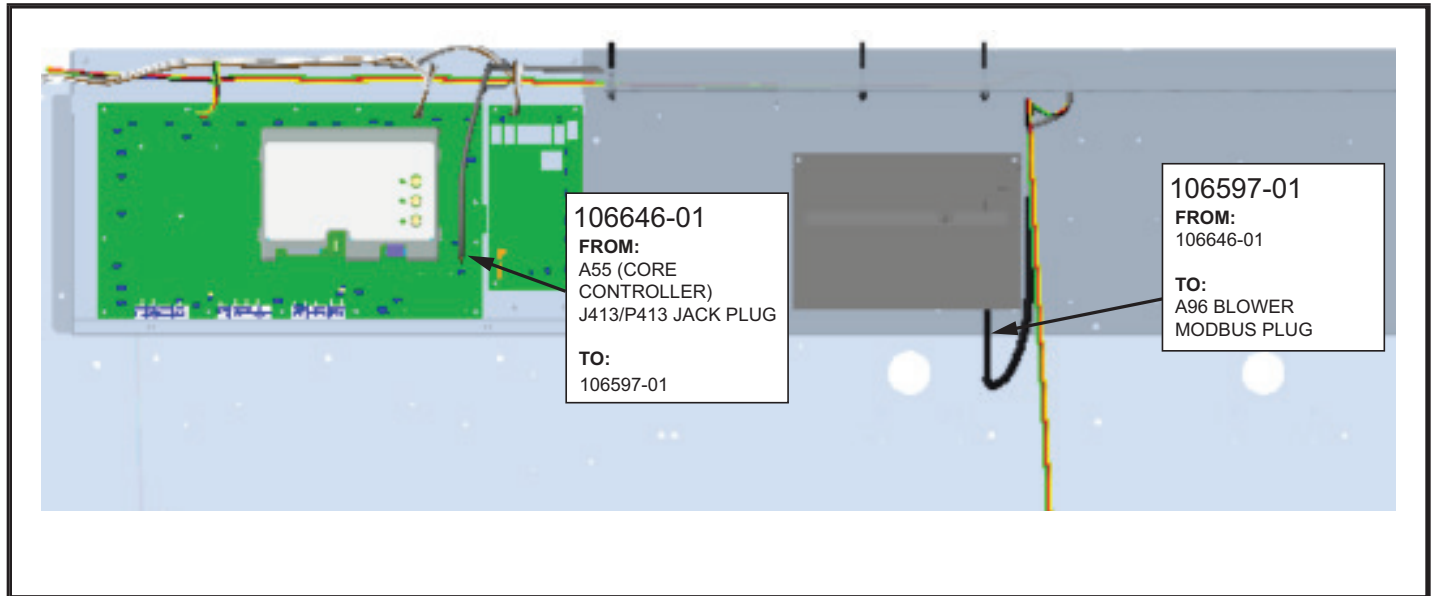


FIGURE 2 LC/LH Models

Table 4. LGT/LDT Catalog & Part Numbers

MODBUS Cable	Catalog Number	Part Number	Quantity
LGT / LDT	24N57 / 622789-03	106597-01	1
		107175-01	1

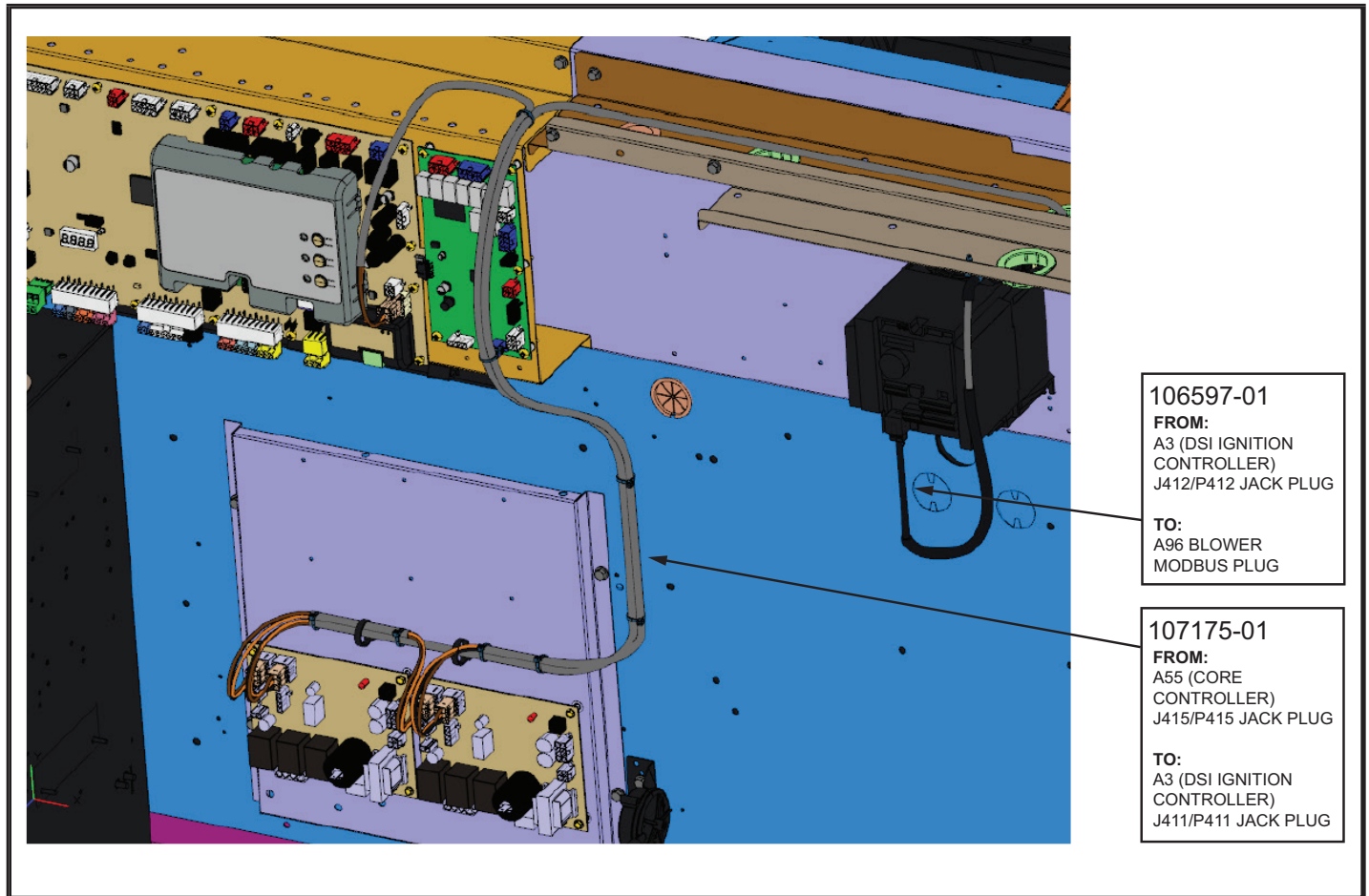


FIGURE 3 LGT/LDT Models w/ R410-A

Table 5. LG/LD Catalog and Part Numbers

MODBUS Cable	Catalog Number	Part Number	Quantity
LG / LD	28B30 / 622789-04	106597-01	1
		107927-01	1
		108009-01	1

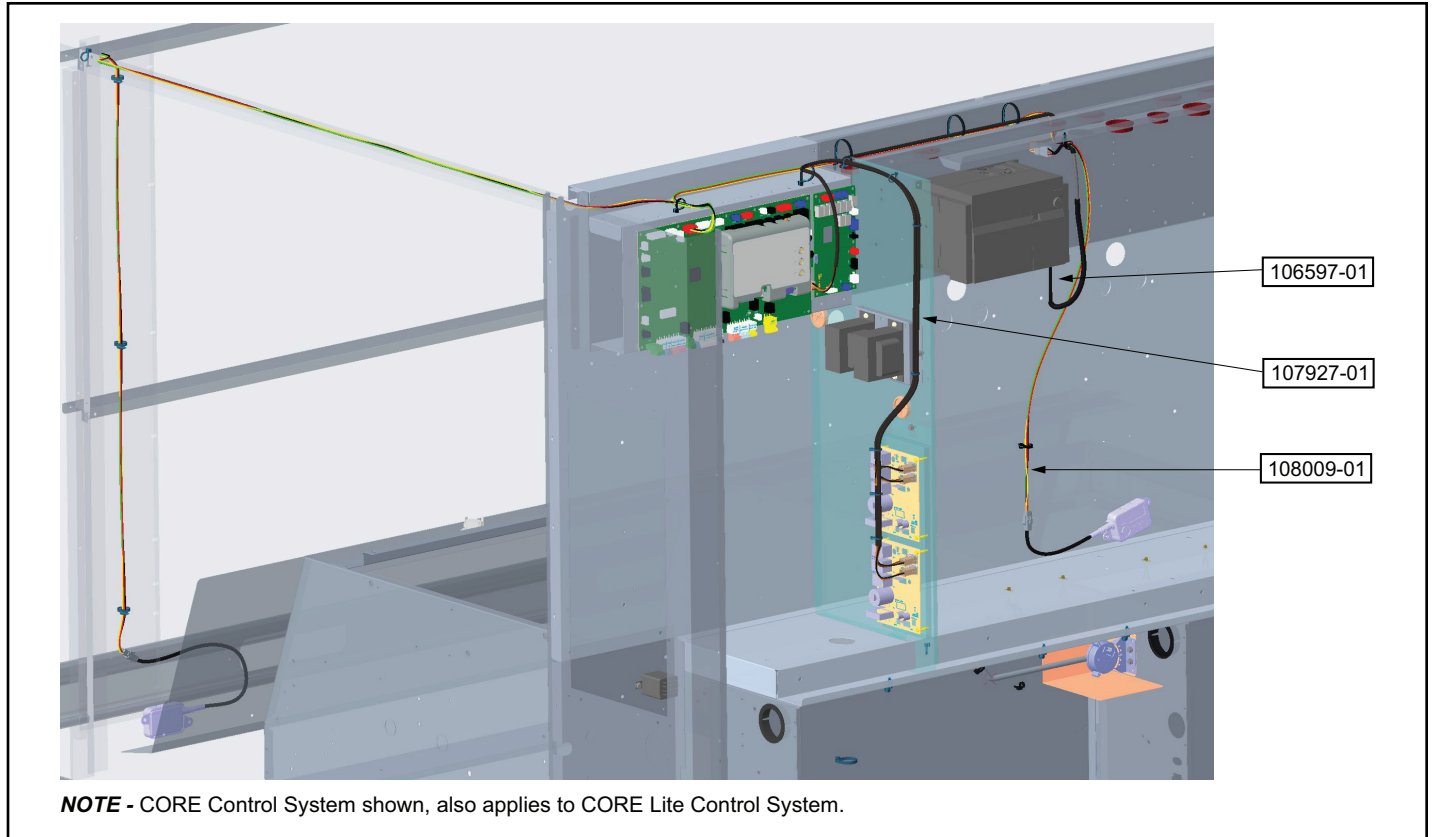


FIGURE 4 LG/LD Models (R454B)

Table 6. LC/LH Catalog and Part Numbers

MODBUS Cable	Catalog Number	Part Number	Quantity
LC / LH	28U75 / 622789-05	106646-01	1
		106597-01	1
		108009-01	1

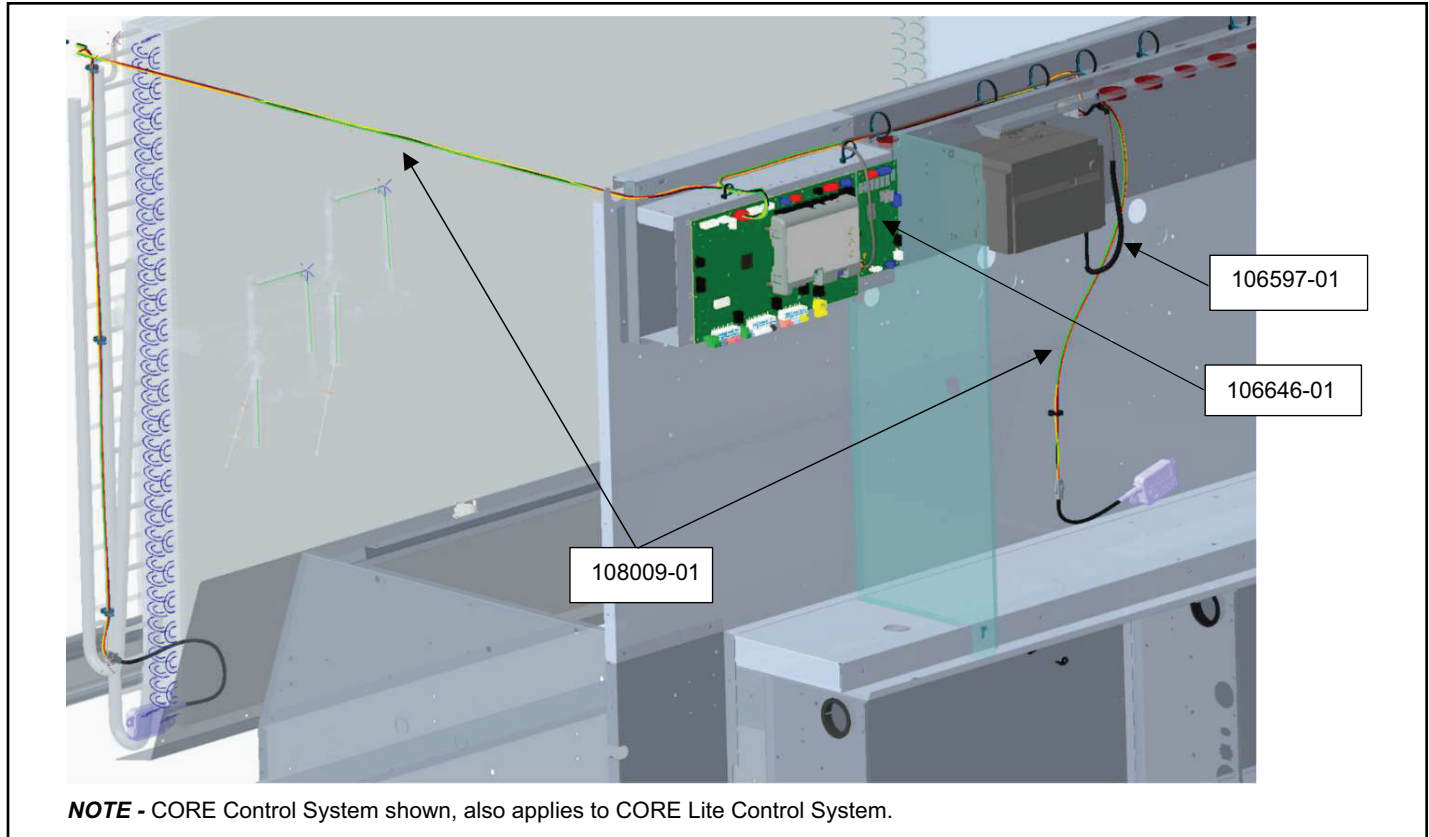


FIGURE 5 LC/LH Models (R454B)