

FLOAT SWITCH KIT

INSTALLATION INSTRUCTIONS FOR FLOAT SWITCH KIT (602799-02; 68W88) USED WITH LGH/LCH036-360 AND SG/SC 036-288 UNITS

⚠ WARNING

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

⚠ CAUTION

Danger of sharp metallic edges. Can cause injury. Take care when servicing unit to avoid accidental contact with sharp edges.

Shipping and Packing List

Package 1 of 1 contains:

- 1- Overflow (float) switch (S149)
- 3- Mounting brackets
- 1- Wire harness
- 2- Screws #10-32 X 1/2"
- 2- Screws #8-32 X 1/2"
- 10- Wire ties

Application

The overflow switch is used to interrupt cooling operation when excessive condensate collects in the drain pan.

Prodigy M2 Unit Controller

The N.C. overflow switch is connected to the Unit Controller (A55) through DI-3. When the switch opens, the Unit Controller will shut off the unit. After a five-minute time out, the Unit Controller will verify the overflow switch position and restart the unit (if the switch has closed). The Unit Controller has a three-strike counter before the unit locks out. This means the Unit Controller will allow the overflow switch to open three times per thermostat demand. If the unit locks out, a reset of the Unit Controller is required after the switch has closed to restore unit operation.

Prodigy 2.0 M3 Unit Controller

The N.C overflow switch is connected to the M3 Unit Controller through DI-2 or DI-3.

if the overflow switch is only switch installed on the general purpose programmable input, then M3 Unit Controller will disable compressor cooling operation when the overflow switch is detected as open.

If the programmable digital input is shared with other protection switches, the M3 Unit Controller will shutdown the whole unit operation when the overflow switch is detected as open.

After a five-minute time out, the M3 Unit Controller will verify the overflow switch position and resume operation (servicing the demands) if the switch has closed.

The Prodigy 2.0 M3 Unit Controller has no 3-strike counter.

Float Assembly

The float switch assembly is shipped for normally closed operation.

Installation

- 1- Disconnect all electrical power to unit and open control access door.
- 2- Remove panel covering the condensate drain pipe.
- 3- *LGH/LCH Units -*

Secure float switch to bracket. See figure 1. Secure bracket to drain pan. See figure 2 for plastic drain pans and figure 3 for stainless steel drain pans. Use #10 screws to secure assembly. Discard the other two brackets provided in kit.

SC/SC Units -

Secure float switch to C-bracket which doesn't have a square cut-out; secure with locknut. Install the assembly as shown in figure 4. Make sure square bracket is on the inside of the drain pan and C-bracket is on the outside. Secure with #8 screws. Discard the bracket with the square cut-out.

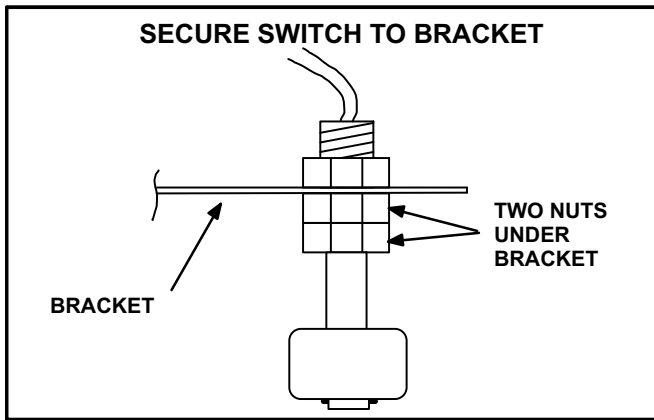


FIGURE 1

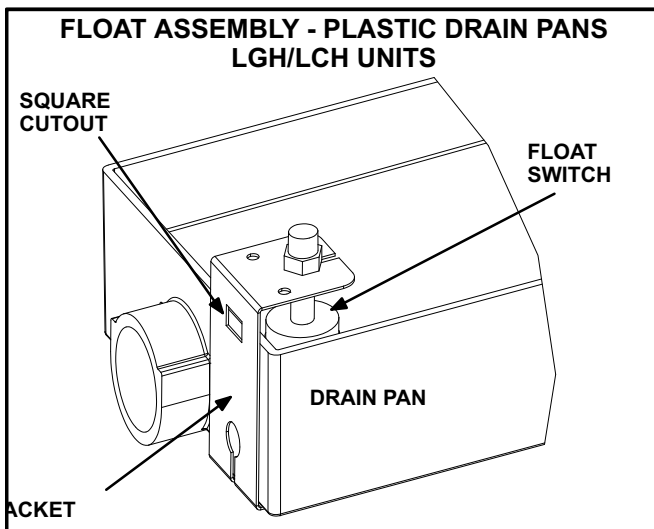


FIGURE 2

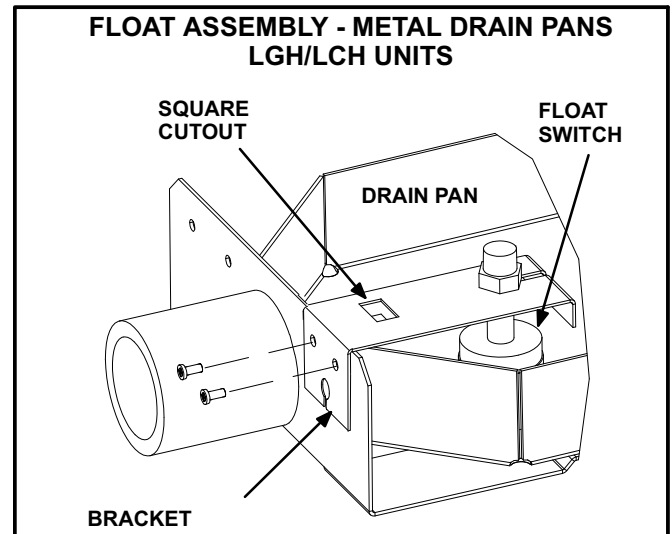


FIGURE 3

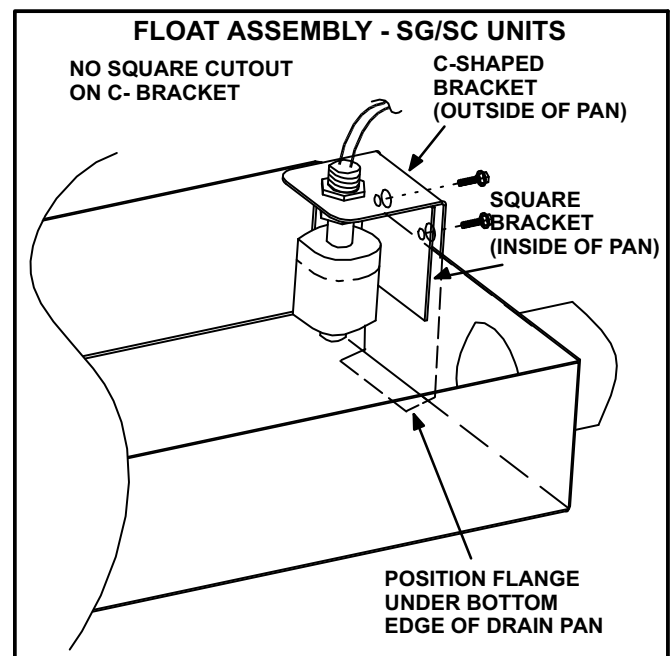


FIGURE 4

IMPORTANT - LGH/LCH036-150 UNITS ONLY - When condensate drainage is required through the back of the unit: remove drain pan, install float switch assembly on the left side of the drain pan nipple and install with switch oriented toward the back of the unit. See figure 5. Route wire harness between the drain pan and heat section.

SWITCH ASSEMBLY WITH DRAIN PAN REVERSED (LGH/LCH036-150 UNITS ONLY)

INSTALL SWITCH
ASSEMBLY ON LEFT SIDE
OF DRAIN PAN NIPPLE

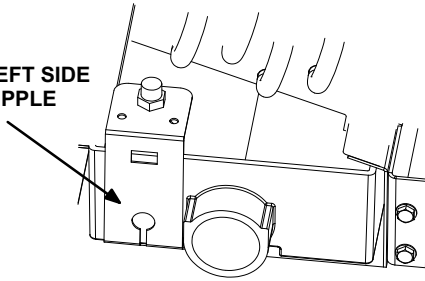
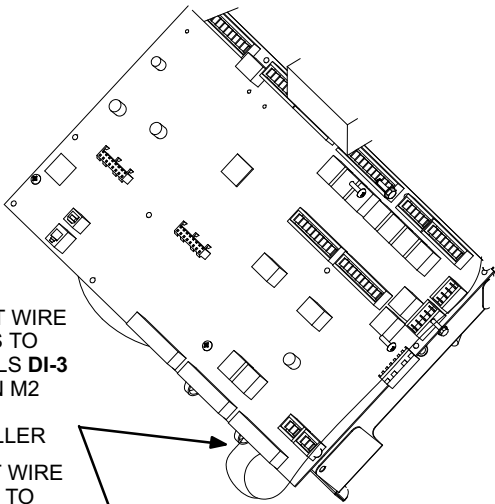


FIGURE 5

- 4- Connect wire harness to Unit Controller terminals DI-3 and R as shown in figure 6.

CONNECT HARNESS



CONNECT WIRE
HARNESS TO
TERMINALS DI-3
AND R ON M2
UNIT
CONTROLLER

CONNECT WIRE
HARNESS TO
EITHER
TERMINALS DI-2
AND R OR DI-3
AND R ON M3
UNIT
CONTROLLER

OPTION FOR M3 UNIT
CONTROLLER ONLY.

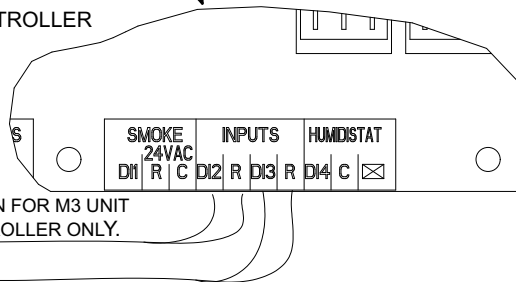


FIGURE 6

- 5- Route the other end of the harness to the float switch and secure with wire ties. See figure 7 for LGH/LCH036-072 units, figure 8 for LGH/LCH092-150 units, figure 9 for LGH/LCH156-360 & SG/SC 240/388, figure 10 for SG/SC 036/060 and figure 11 for SG/SC 120 units.
- 6- Connect wire harness to float switch. Bundle excess wiring using wire ties provided and secure to insulated suction line manifold above drain pan.
- 7- Replace panel covering condensate drain pan.
- 8- Restore power to unit.

Configure Unit Controller

IMPORTANT - Make sure Unit Controller uses V7.05.01 (or later) and the display uses V1.06.05 (or later) software. Use the Unit Controller Installation and Setup Guide to update software.

PRODIGY M2 UNIT CONTROLLER

- 1- Configure the Unit Controller for the Overflow switch using the following menu:

SETTINGS>INSTALL>FLOAT SW

- 2- Close all access doors.

PRODIGY 2.0 M3 UNIT CONTROLLER

- 1- Configure the Unit Controller for the Overflow switch using the following menu:

Go to **SETUP / INSTALL** and navigage through the various setup questions until **Configuration ID 2** appears. Position **three** needs to set to either **2** when connected to DI-2 and **3** when connected to DI-3.

- 2- Close all access doors.

WIRING ROUTING - LGH/LCH036-072 UNITS

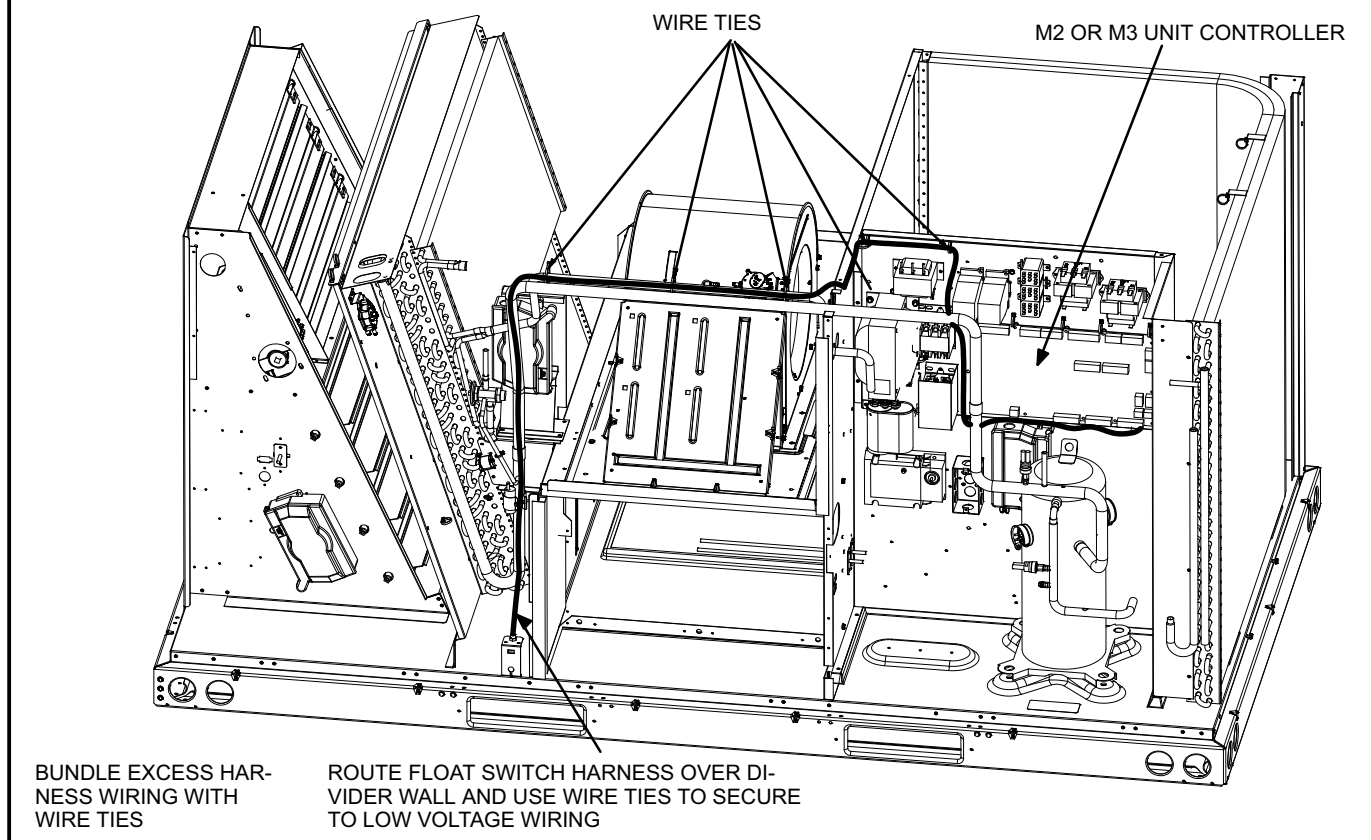


FIGURE 7

WIRING ROUTING - LGH/LCH092-150 UNITS

M2 OR M3 UNIT
CONTROLLER

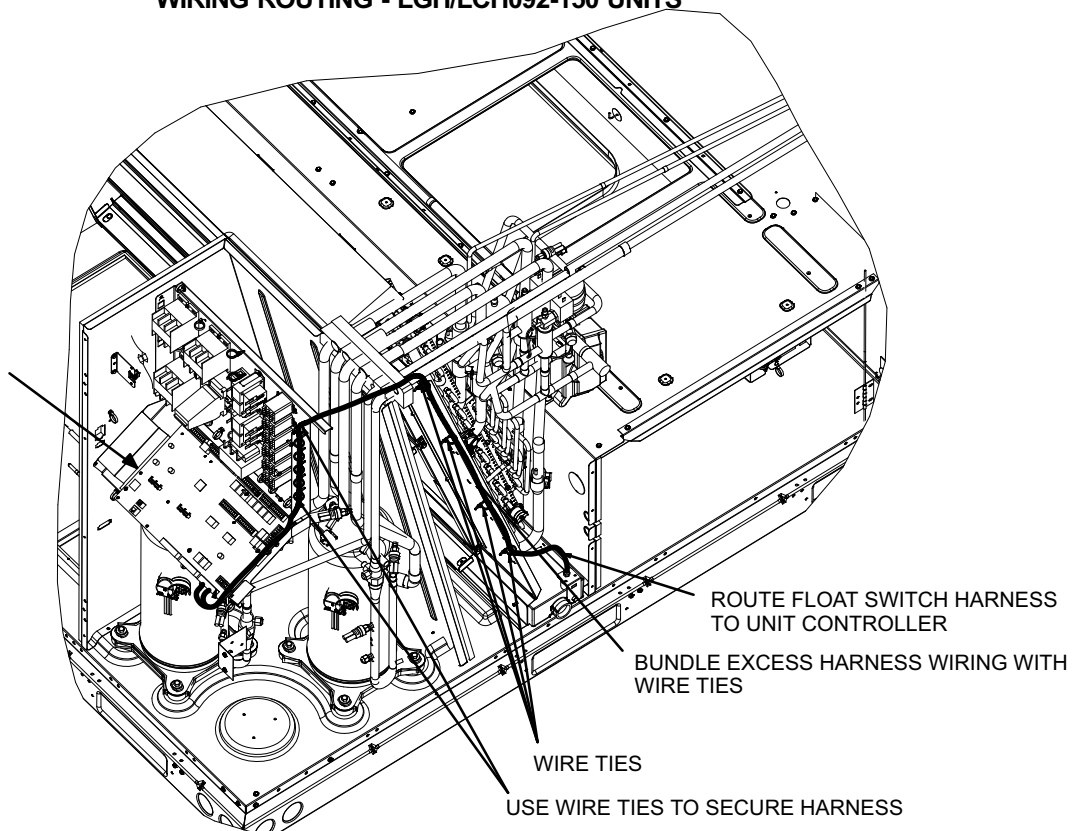
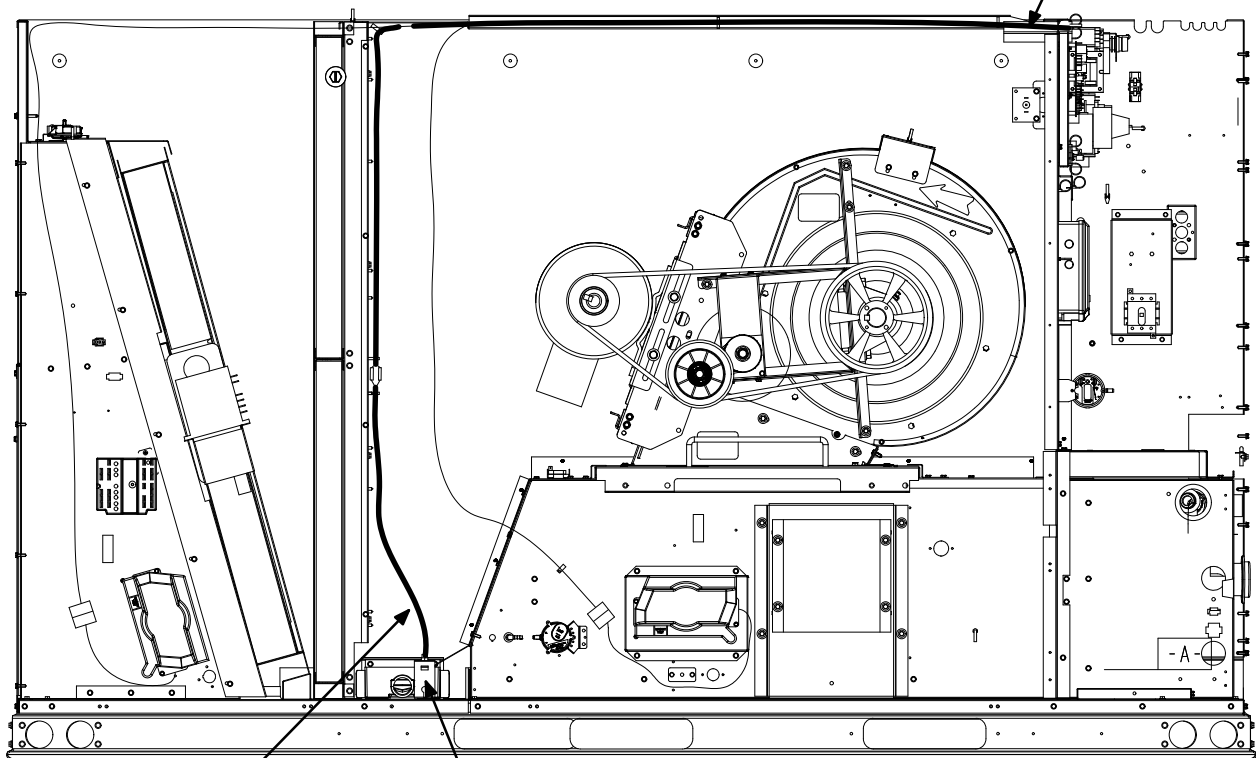


FIGURE 8

WIRING ROUTING - LGH/LCH156-360 & SG/SC 240/288 UNITS

ROUTE HARNESS TO UNIT
CONTROLLER (SEE LEFT
SIDE VIEW)

FRONT VIEW



ROUTE FLOAT SWITCH
HARNESS TO UNIT CON-
TROLLER

LGH/LCH
BRACKET SHOWN

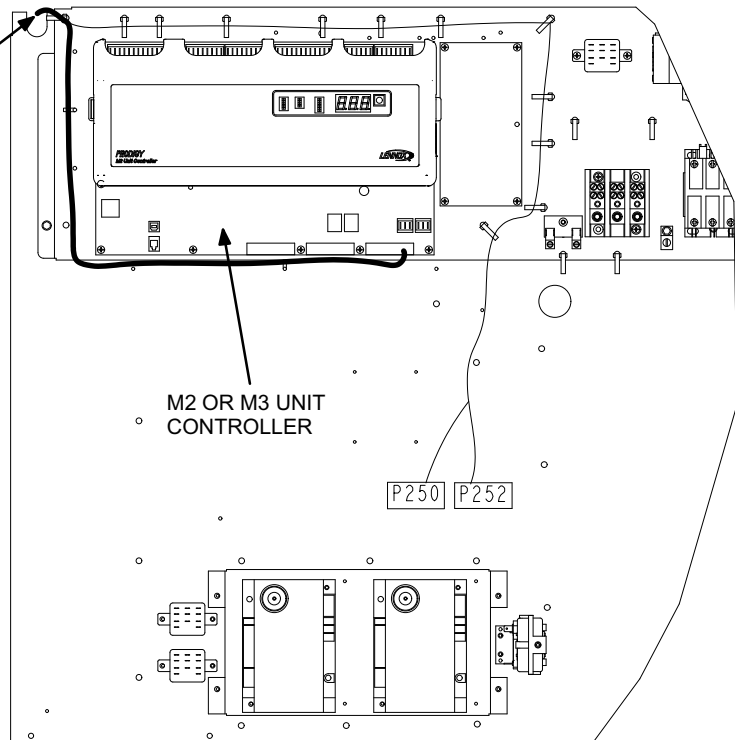
LEFT SIDE VIEW

HARNESS ROUTED
FROM FLOAT SWITCH
(SEE FRONT VIEW)

BUNDLE EXCESS HAR-
NESS WIRING WITH
WIRE TIES

M2 OR M3 UNIT
CONTROLLER

P250 P252



WIRING ROUTING - SG/SC 036/060 UNITS

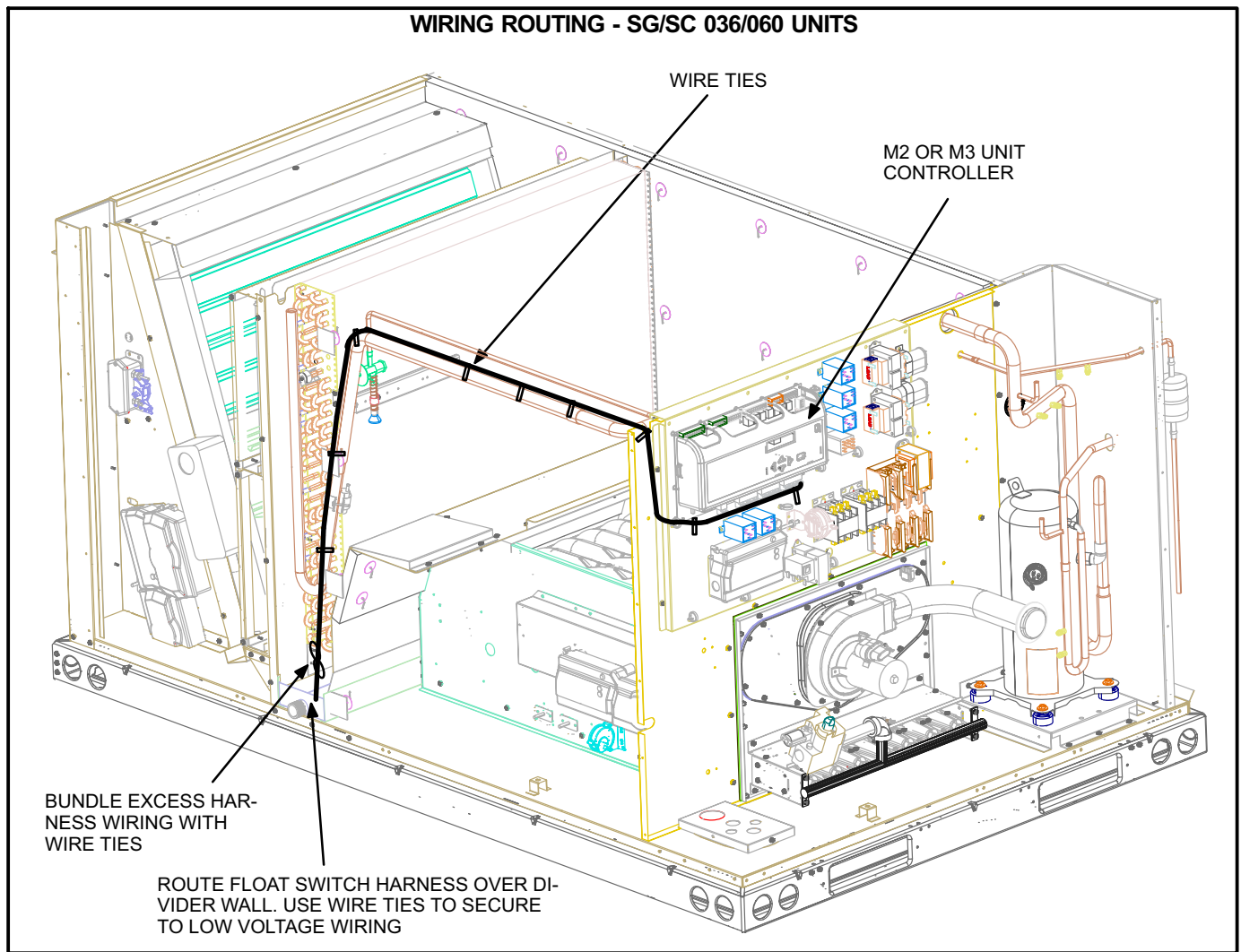


FIGURE 10

WIRING ROUTING - SG/SC 120 UNITS

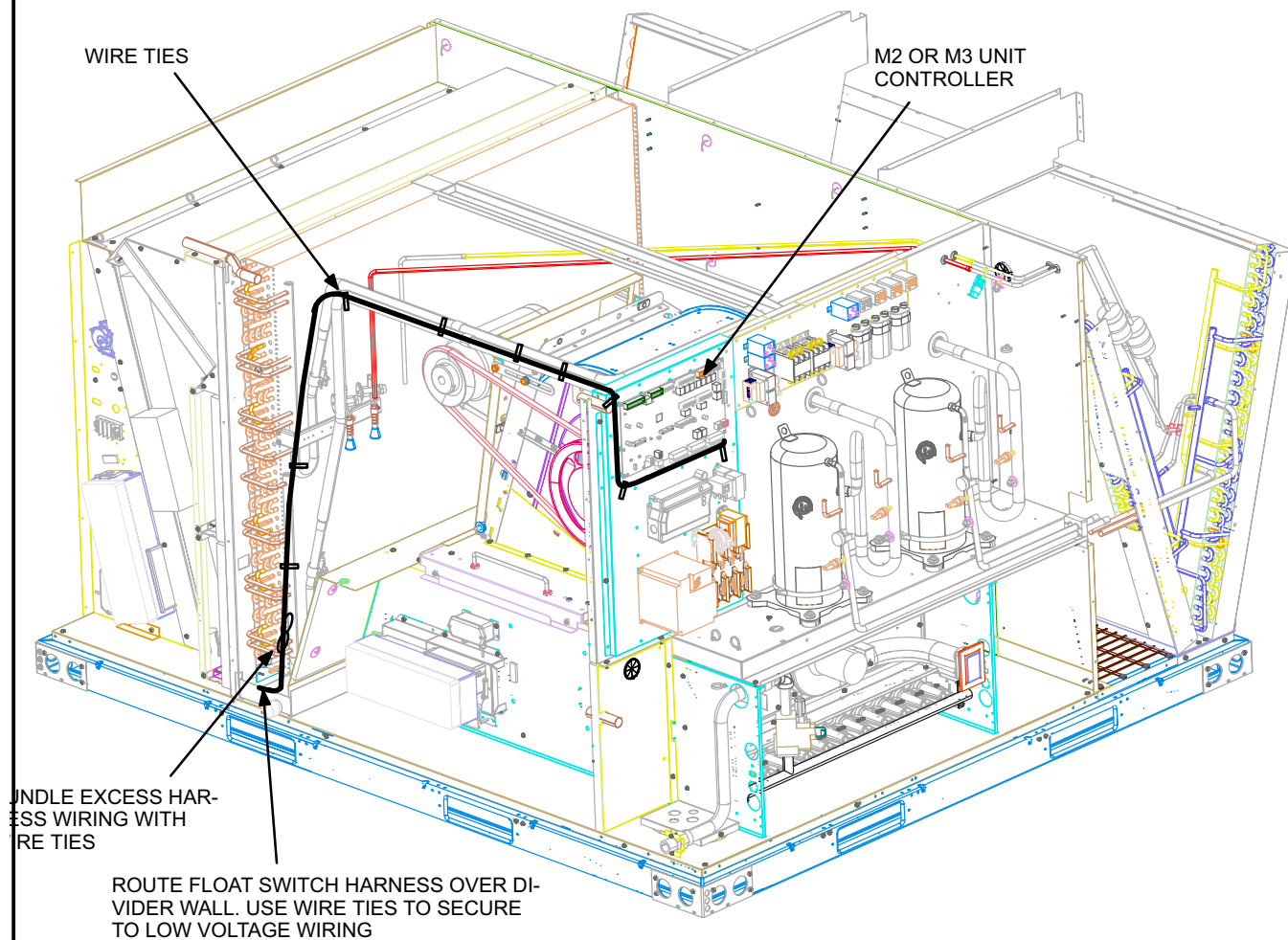


FIGURE 11