508462-01
11/2026
Supersedes 8/2026

# THERMISTOR REPLACEMENT KIT

## INSTALLATION INSTRUCTIONS FOR THERMISTOR KITS USED ON LC/LG/LH/LD/SC/SG 024-360 PACKAGED UNITS - WITH R454B

## Shipping and Packing List

**Package 1 of 1 contains:**

4- Thermistors with wire harnesses for 22J07, 22J09

5- Thermistors with wire harnesses for 22J06

6- Thermistors with wire harnesses for 22J08, 23V50

## ⚠WARNING

**To prevent serious injury or death:**

1. **Lock-out/tag-out before performing maintenance.**
2. **If system power is required (e.g., smoke detector maintenance), disable power to blower, remove fan belt where applicable, and ensure all controllers and thermostats are set to the "OFF" position before performing maintenance.**
3. **Always keep hands, hair, clothing, jewelry, tools, etc., away from moving parts.**

Check packaging for shipping damage. Contact the last carrier immediately if any shipping damage is found.

## Application

Units are equipped with factory-installed thermistors located on different points on the refrigerant circuit. The thermistors provide the Unit Controller with constant temperature readings. These temperatures are used as feedback in certain modes of unit operation. In addition, the Unit Controller uses these temperatures to initiate alarms such as loss of outdoor or indoor coil airflow and loss of charge.

Each thermistor must be specifically placed for proper unit operation and to initiate valid alarms. For proper locations and kit application, see table 1 through 4 for LGM/LCM units and tables 5 through 21 for LGT/LCT/LHT/LDT/LCX/LGX/LHX units.

***NOTE -*** *Multiple thermistors are provided in each kit but not all thermistors are used in each application.*

To use the tables below:

1 - Locate the unit model number of the equipment you are working on from the appropriate table below (Tabels 1-21 on pgs. 1-3)

2 - Match the category number (Cat. No.) in the first column to the category number of the part you need.

3 - Match the assembly number (Ass'y. No.) in the second column to the part you need to install.

4 - Match the sensor color column to the part you need to install.

5 - Use the figure column to identify which of the figures below to reference for installation locations. Figures begin on page 4.

**TABLE 1**

**LGM/LCM036, 048, 060, 074**

| Cat. No. | Ass'y. No. | Sensor Yellow | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46 | FIGURE 8 |
| 22J07 | 623049-02 | RT42 | FIGURE 8 |
| 22J08 | 623049-03 | RT48 | FIGURE 11 |
| 22J09 | 623049-04 | RT44 | FIGURE 12 |

**TABLE 2**

**LGM/LCM092, 102, 120, 150**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 2 (TUBE & FIN) |
| | | | FIGURE 33 (MCHX) |
| 22J07 | 623049-02 | RT42, 43 | FIGURE 2 (TUBE & FIN) |
| | | | FIGURE 33 (MCHX) |
| 23V50 | 623049-05 | RT48, 49 | FIGURE 3 |
| 22J09 | 623049-04 | RT44, 45 | FIGURE 3 |

**TABLE 3**

**LGM/LCM156, 180**

| Cat. No. | Ass'y. No. | Sensor Yel, Blue, Red | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47, 50 | FIGURE 4 |
| 22J07 | 623049-02 | RT42, 43, 54 | FIGURE 4 |
| 23V50 | 623049-05 | RT48, 49, 52 | FIGURE 6 |
| 22J09 | 623049-04 | RT44, 45, 56 | FIGURE 6 |

**TABLE 4**

**LGM/LCM210, 240, 300**

| Cat. No. | Ass'y. No. | Sensor Yel, Blu, Red, Grn | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47, 50, 51 | FIGURE 5 |
| 22J07 | 623049-02 | RT42, 43, 54, 55 | FIGURE 5 |
| 23V50 | 623049-05 | RT48, 49, 52, 53 | FIGURE 7 |
| 22J09 | 623049-04 | RT44, 45, 56, 57 | FIGURE 7 |

R454B

# ⚠WARNING

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

# ⚠CAUTION

**As with any mechanical equipment, contact with sharp sheet metal edges can result in personal in jury. Take care while handling this equipment and wear gloves and protective clothing.**

### TABLE 5

**LHT/LDT036, 048, 060, 072**

| Cat. No. | Ass'y. No. | Sensor Yellow | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46 | FIGURE 1 |

### TABLE 6

**LGT/LCT/SGH/SCH036, 048, 060, 072**

| Cat. No. | Ass'y. No. | Sensor Yellow | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46 | FIGURE 8 |

### TABLE 7

**LHT/LDT036, 048**

| Cat. No. | Ass'y. No. | Sensor Yellow | Figure |
|---|---|---|---|
| 22J08 | 623049-03 | RT48 | FIGURE 9 |

### TABLE 8

**LHT/LDT060, 072**

| Cat. No. | Ass'y. No. | Sensor Yellow | Figure |
|---|---|---|---|
| 22J08 | 623049-03 | RT48 | FIGURE 10 |

### TABLE 9

**LGT/LCT/SGH/SCH036, 048, 060, 072**

| Cat. No. | Ass'y. No. | Sensor Yellow | Figure |
|---|---|---|---|
| 22J08 | 623049-05 | RT48 | FIGURE 11 |

### TABLE 10

**LGT/LCT156, SGH/SCH120**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 13 |
| 23V50 | 623049-05 | RT48, 49 | FIGURE 17 |

### TABLE 11

**LGT/LCT180**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue, Red | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47, 50 | FIGURE 14 |
| 23V50 | 623049-05 | RT48, 49, 52 | FIGURE 18 |

### TABLE 12

**LGT/LCT210, 240, 300**

| Cat. No. | Ass'y. No. | Sensor Yel, Blue, Red, Grn | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47, 50, 51 | FIGURE 15 |
| 23V50 | 623049-05 | RT48, 49, 52, 53 | FIGURE 19 |

### TABLE 13

**LGT/LCT302, 360; SGH/SCH240**

| Cat. No. | Ass'y. No. | Sensor Yel, Blue, Red, Grn | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47, 50, 51 | FIGURE 16 |
| 23V50 | 623049-05 | RT48, 49, 52, 53 | FIGURE 20 |

### TABLE 14

**LGT/LCT092, 102, 120, 150**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 21 |
| 23V50 | 623049-05 | RT48, 49 | FIGURE 22 |

### TABLE 15

**LHT/LDT078, 092, 102, 120, 152**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 23 |
| 22J08 | 623049-03 | RT48, 49 | FIGURE 24 |

### TABLE 16

**LHT/LDT156, 180, 240, LHX180, 240, 300**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 25 |
| 22J08 | 623049-03 | RT48, 49 | FIGURE 26, FIGURE 29, FIGURE 30 |

### TABLE 17

**LCX/LGX180, 210, 240, 300**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47, 50 | FIGURE 14 |
| 22J06 | 623049-01 | RT46, 47, 50, 51 | FIGURE 15 |

### TABLE 18

**LHT/LDT302**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 27 |
| 22J08 | 623049-03 | RT48, 49 | FIGURE 28 |

## TABLE 19

**LCX/LGX092, 102, 120**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 31 |

## TABLE 20

**LCX/LGX150**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 21 |

## TABLE 21

**LHX092, 102, 120**

| Cat. No. | Ass'y. No. | Sensor Yellow, Blue | Figure |
|---|---|---|---|
| 22J06 | 623049-01 | RT46, 47 | FIGURE 21 |
| 22J08 | 623049-03 | RT48, 49 | FIGURE 32 |

**LHT/LDT036, 048, 060, 072**
**EVAPORATOR COIL**
**RT46**

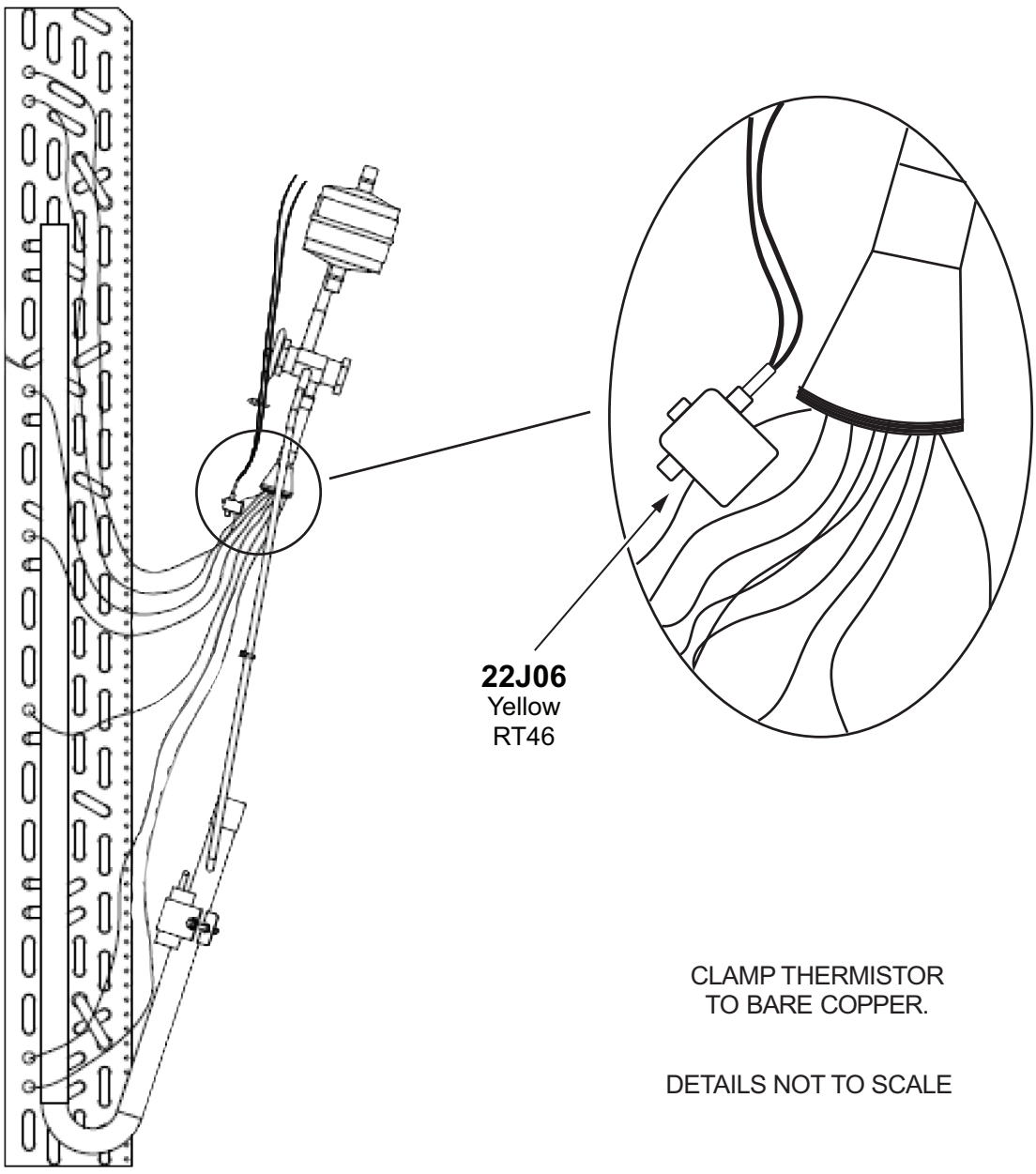



**FIGURE 1**

## LGM/LCM092, 102, 120, 150
## EVAPORATOR COIL (TUBE & FIN)
## RT42, 43, 46, 47

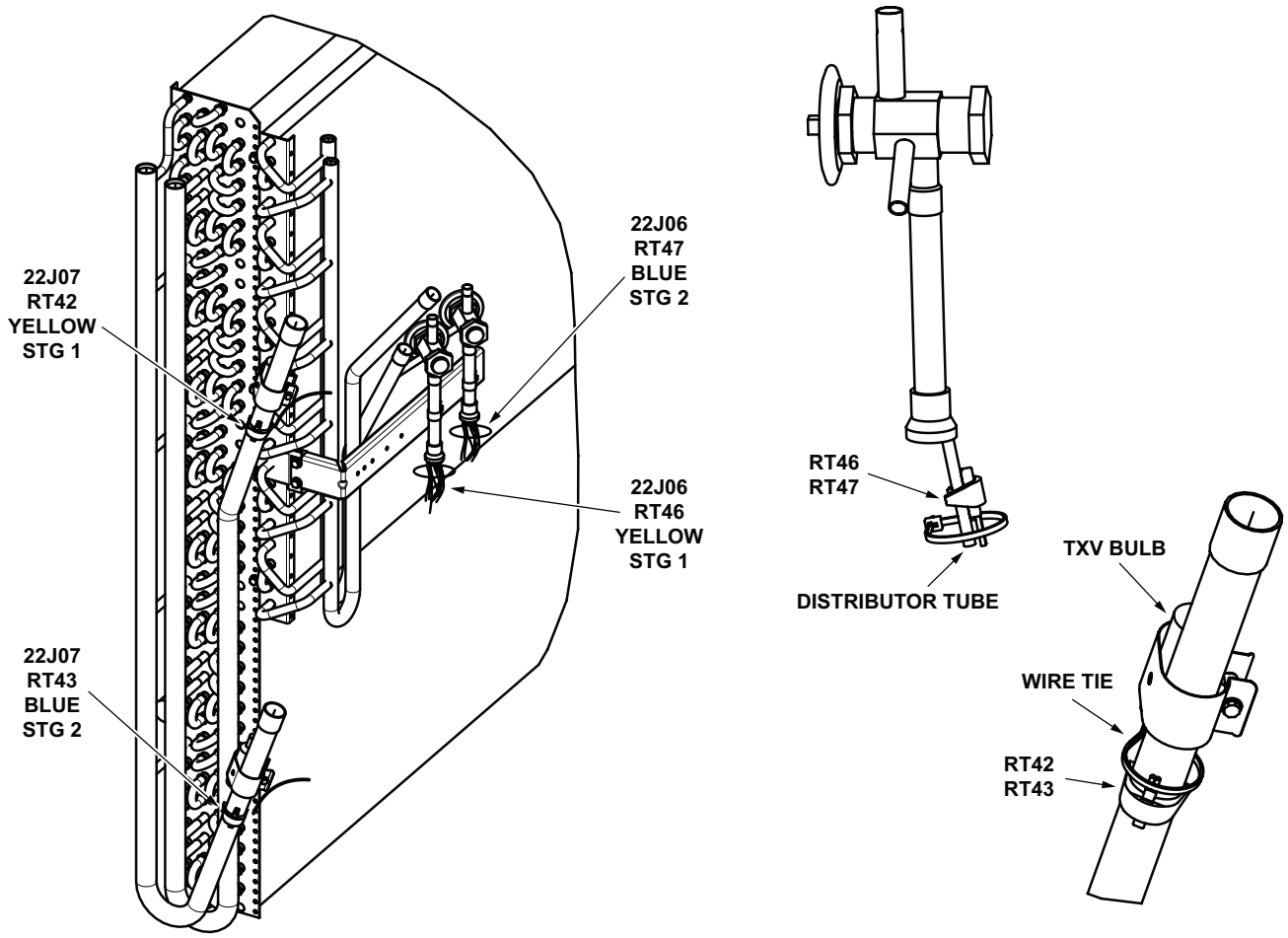



**FIGURE 2**

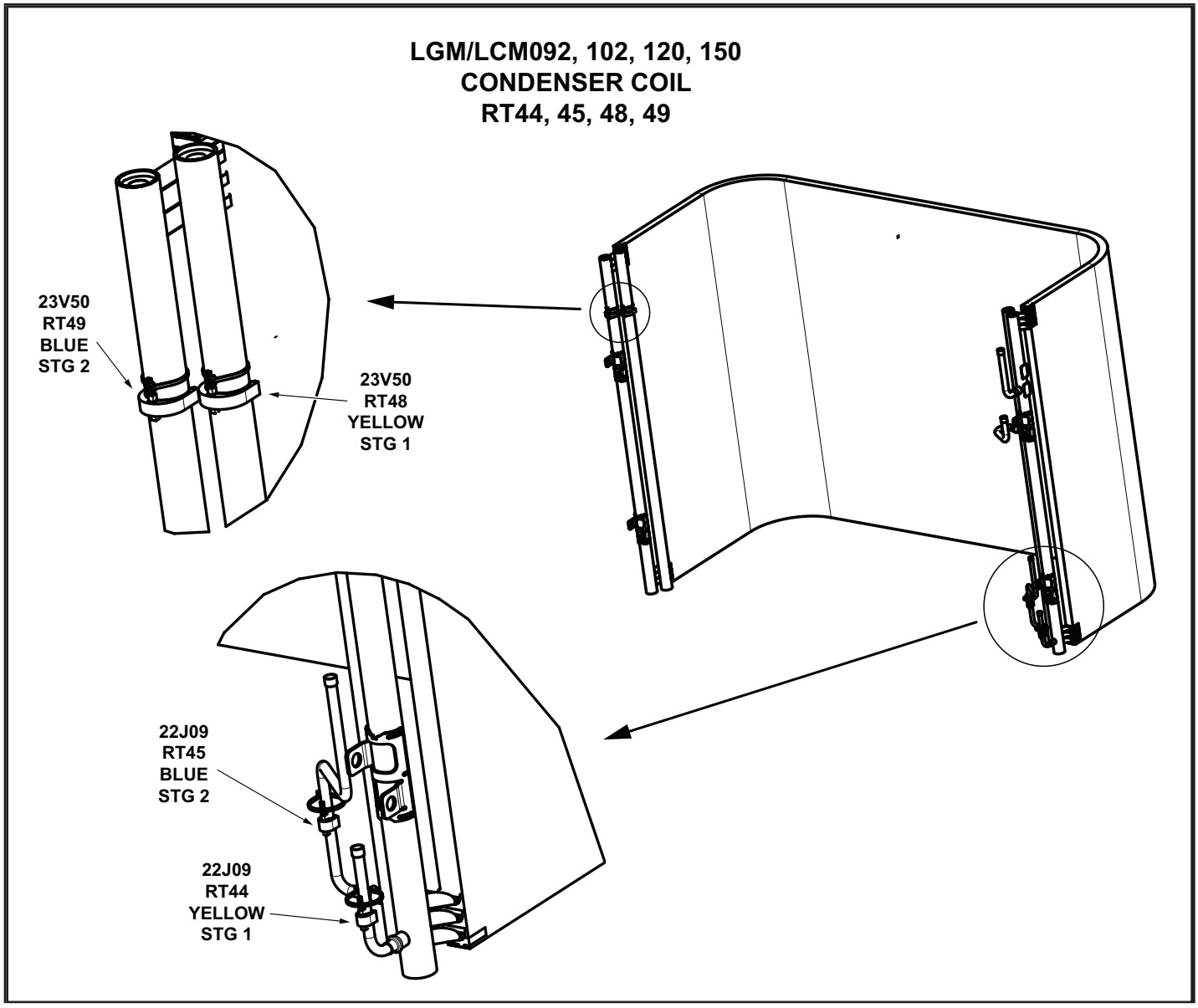
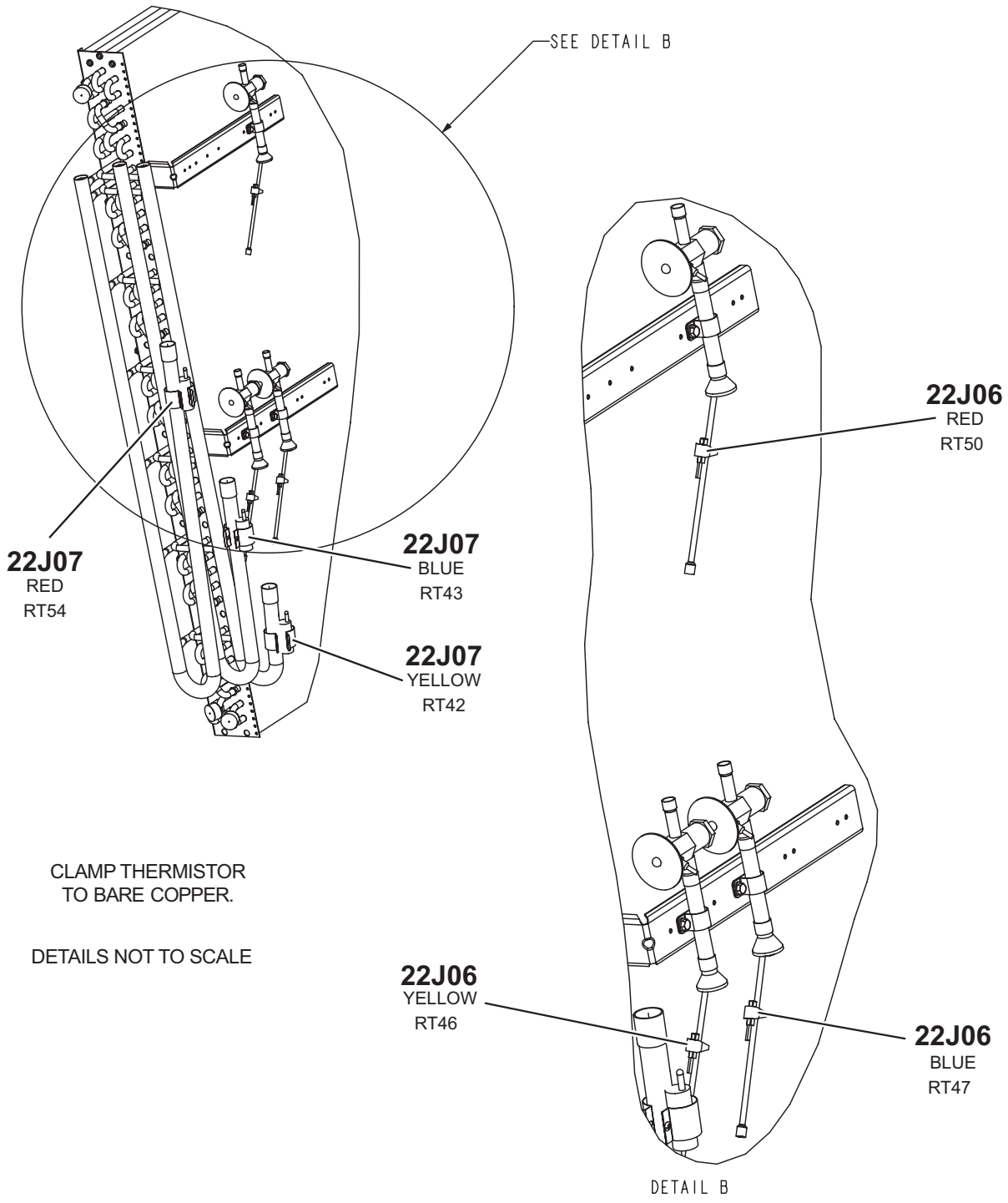

LGM/LCM092, 102, 120, 150
CONDENSER COIL
RT44, 45, 48, 49
23V50
RT49
BLUE
STG 2
23V50
RT48
YELLOW
STG 1
22J09
RT45
BLUE
STG 2
22J09
RT44
YELLOW
STG 1

**FIGURE 3**

**LGM/LCM156, 180**
**THREE-ROW EVAPORATOR COIL**
**RT42, RT43, RT46, RT47, RT50, RT54**

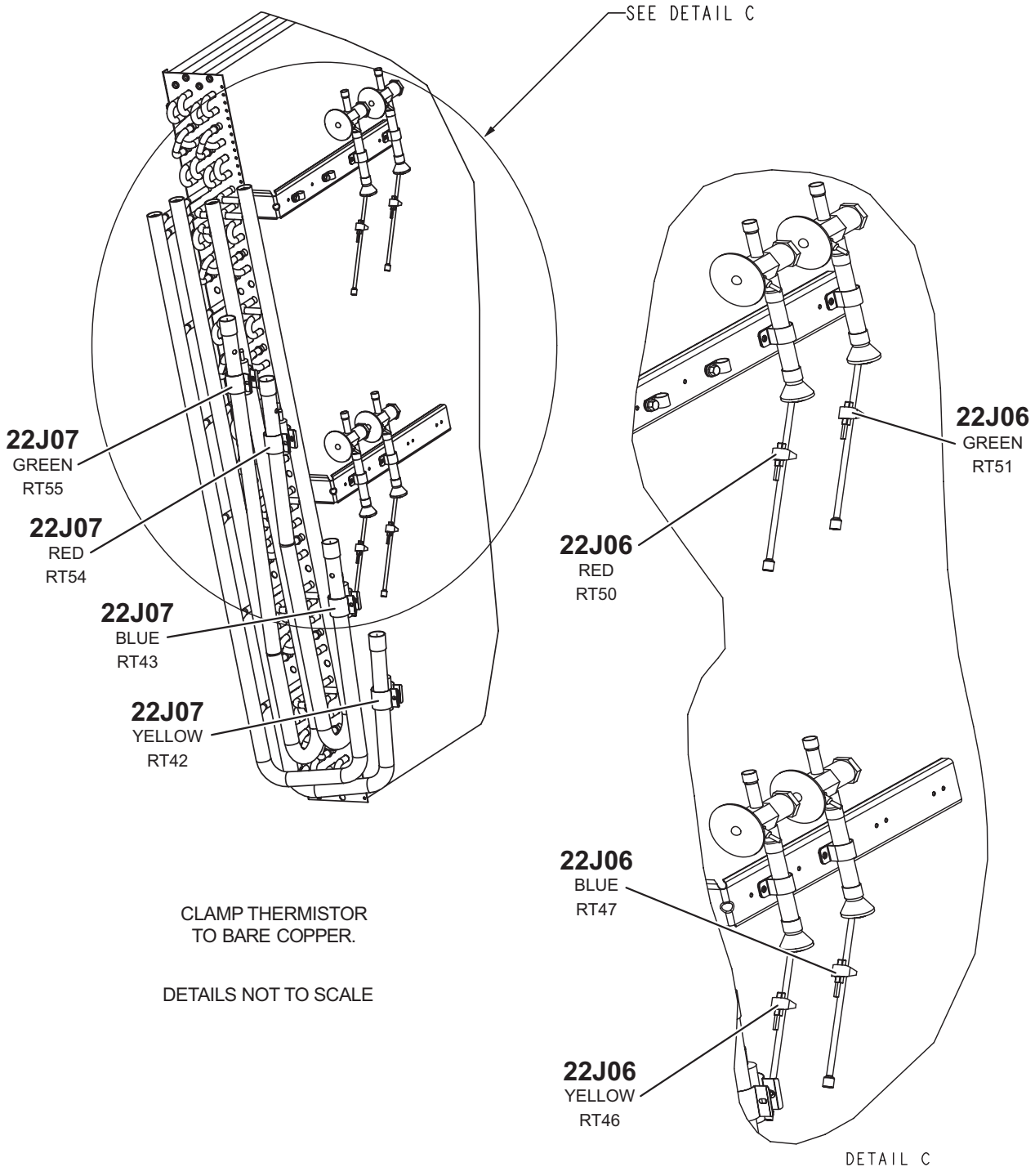



CLAMP THERMISTOR
TO BARE COPPER.

DETAILS NOT TO SCALE

**FIGURE 4**

**LGM/LCM210, 240, 300**
**FOUR-ROW EVAPORATOR COIL**
**RT42, RT43, RT46, RT47, RT50, RT51, RT54, RT55**




CLAMP THERMISTOR
TO BARE COPPER.

DETAILS NOT TO SCALE

**FIGURE 5**

**LGM/LCM156, 180**
**CONDENSOR COIL**
**RT44, RT45, RT48, RT49, RT52, RT56**

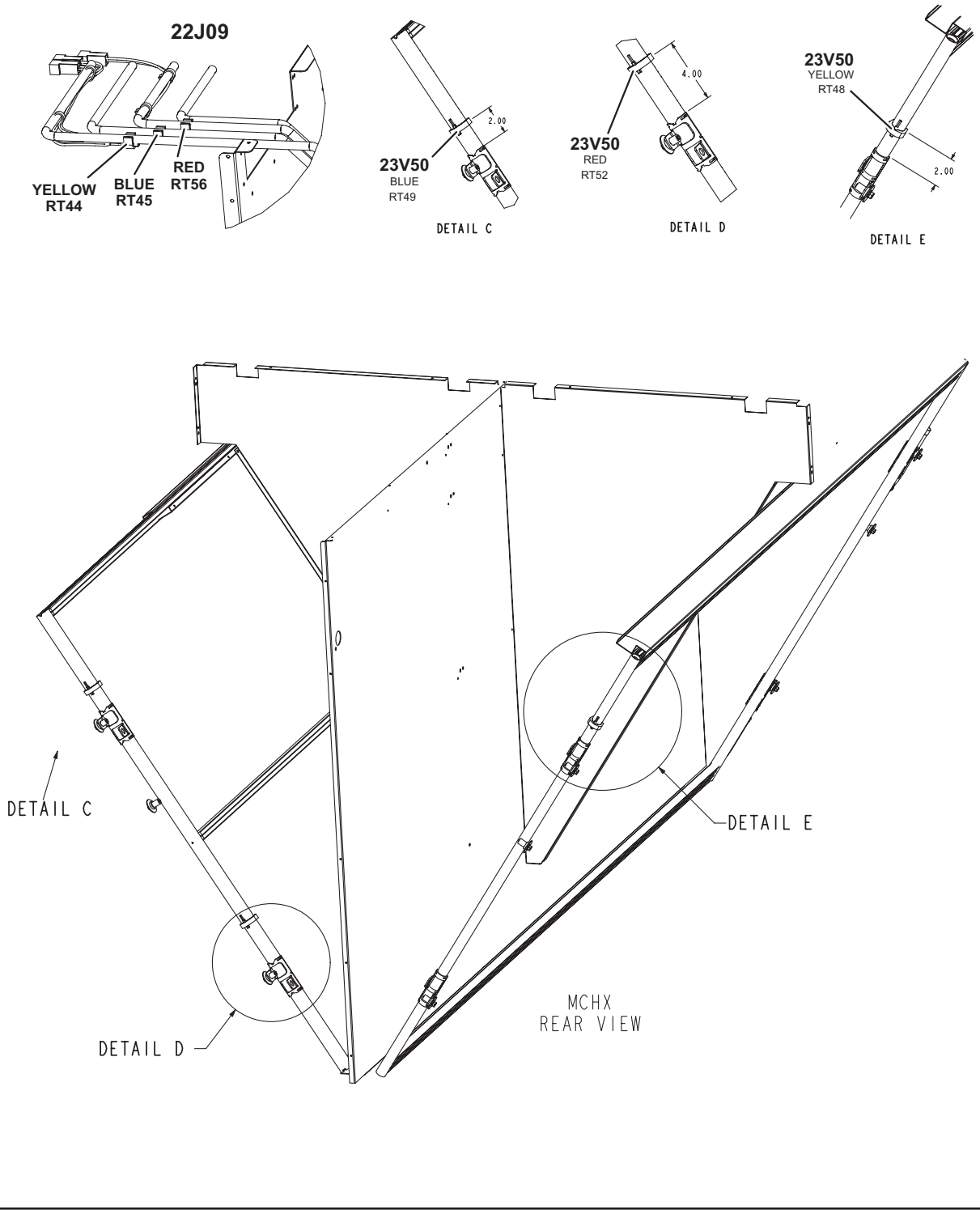



**FIGURE 6**

**LGM/LCM210, 240, 300**
**CONDENSOR COIL**
**RT44, RT45, RT48, RT49, RT52, RT53, RT56, RT57**

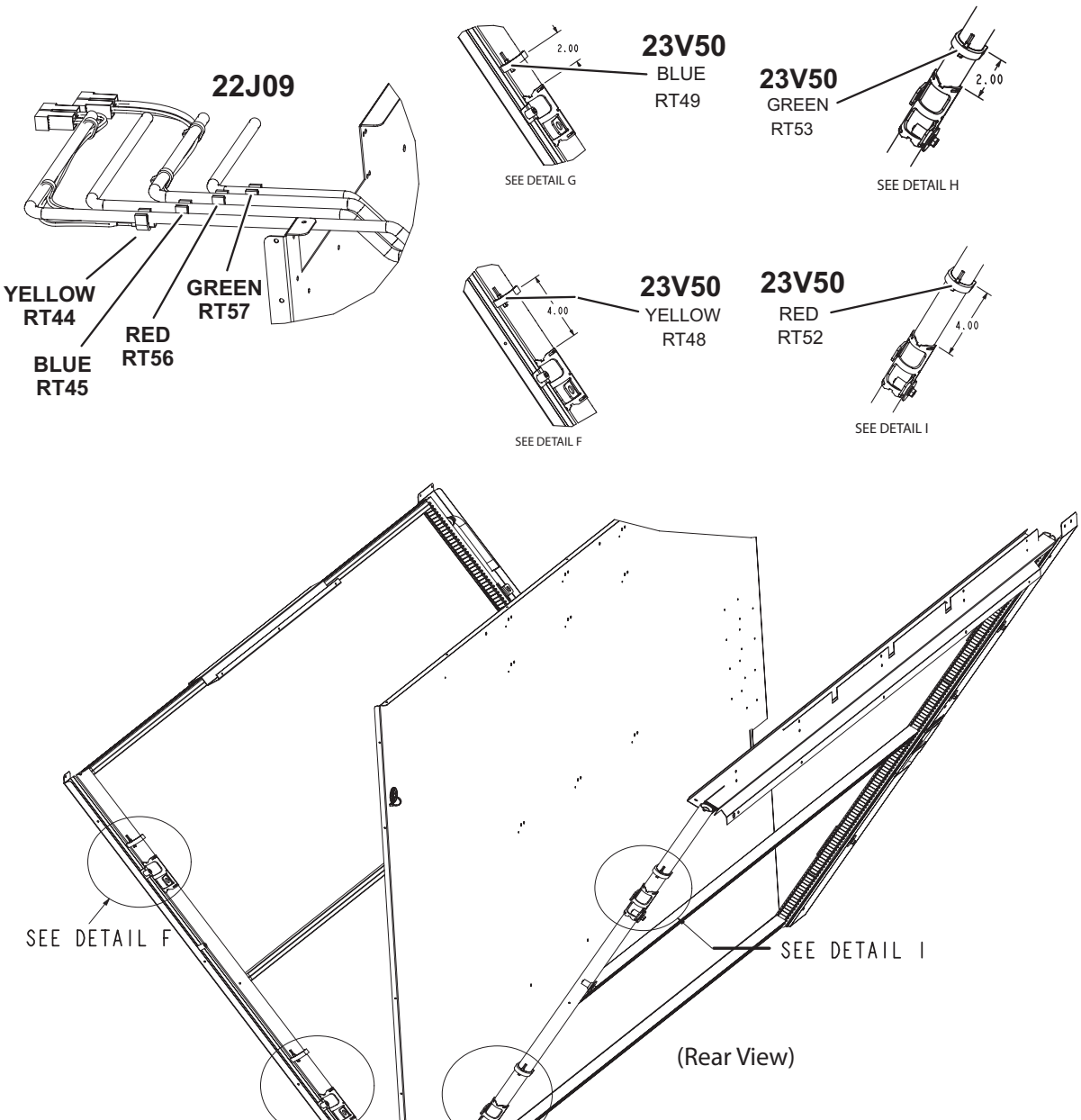



**FIGURE 7**

**LGM/LCM/LGT/LCT/SGH/SCH036, 048, 060, 072/074**
**EVAPORATOR COIL**
**RT42, 46**

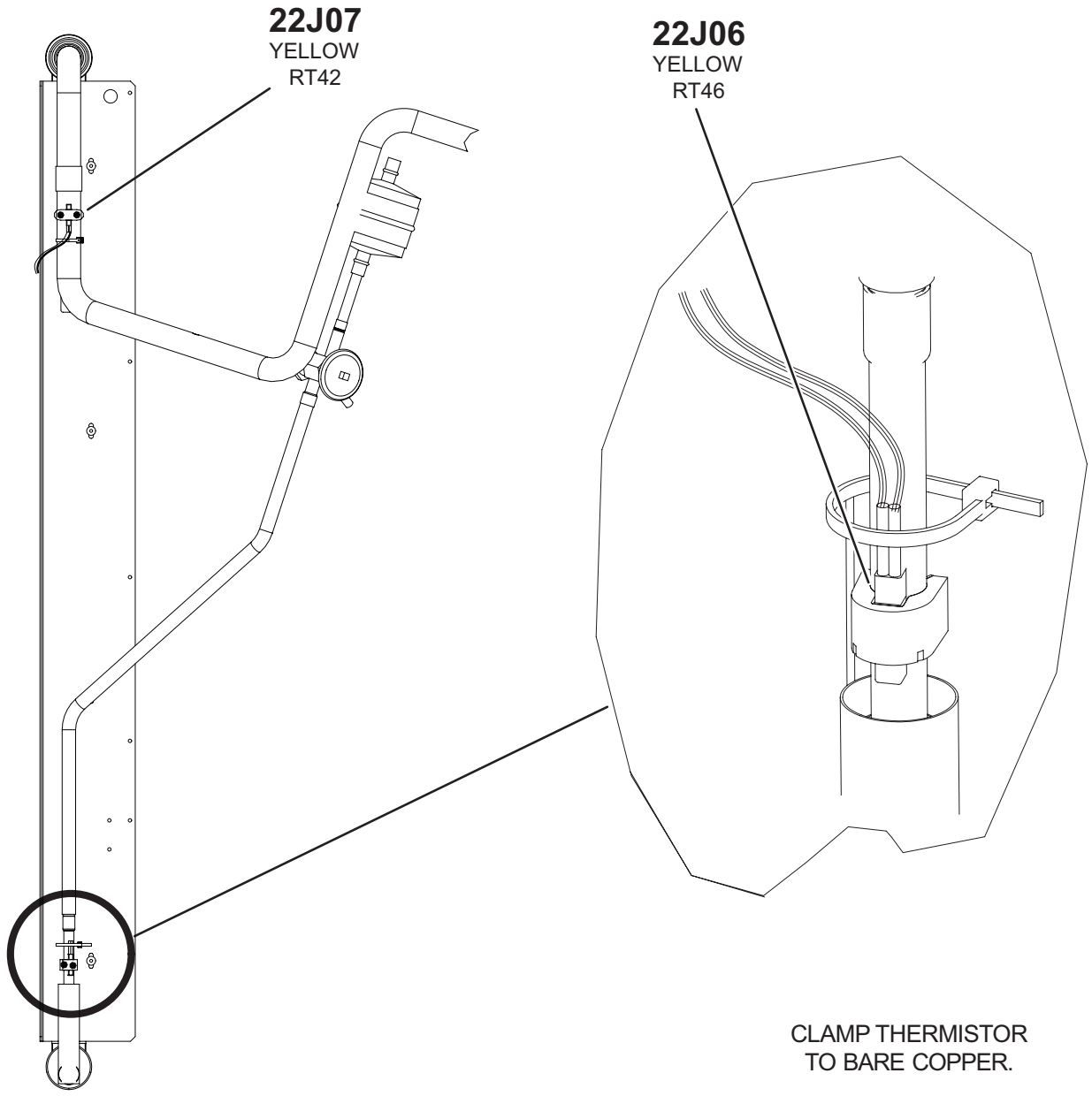



**FIGURE 8**

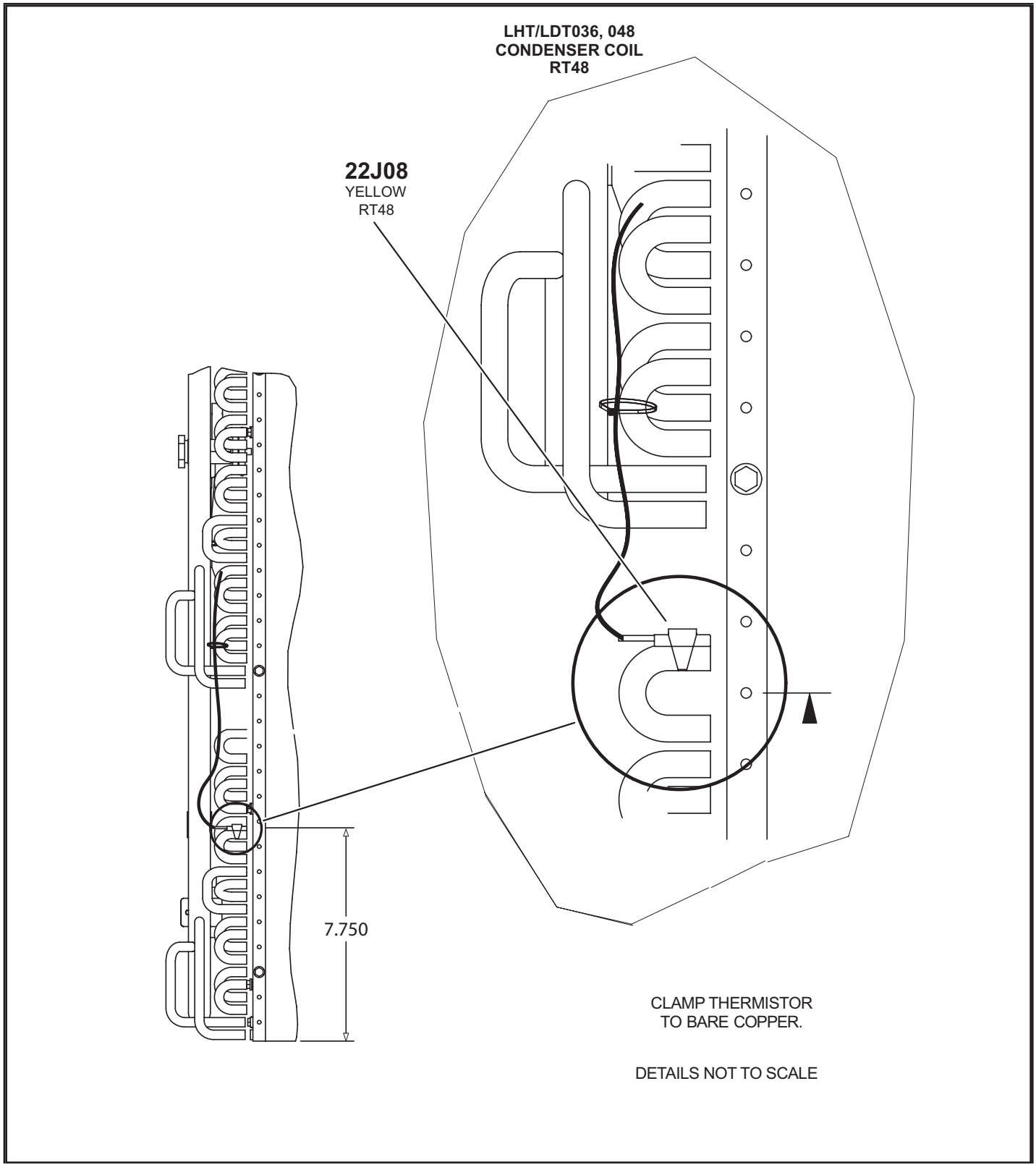

LHT/LDT036, 048
CONDENSER COIL
RT48
22J08
YELLOW
RT48
7.750
CLAMP THERMISTOR
TO BARE COPPER.
DETAILS NOT TO SCALE

**FIGURE 9**

**LHT/LDT060, 072**
**CONDENSER COIL**
**RT48**

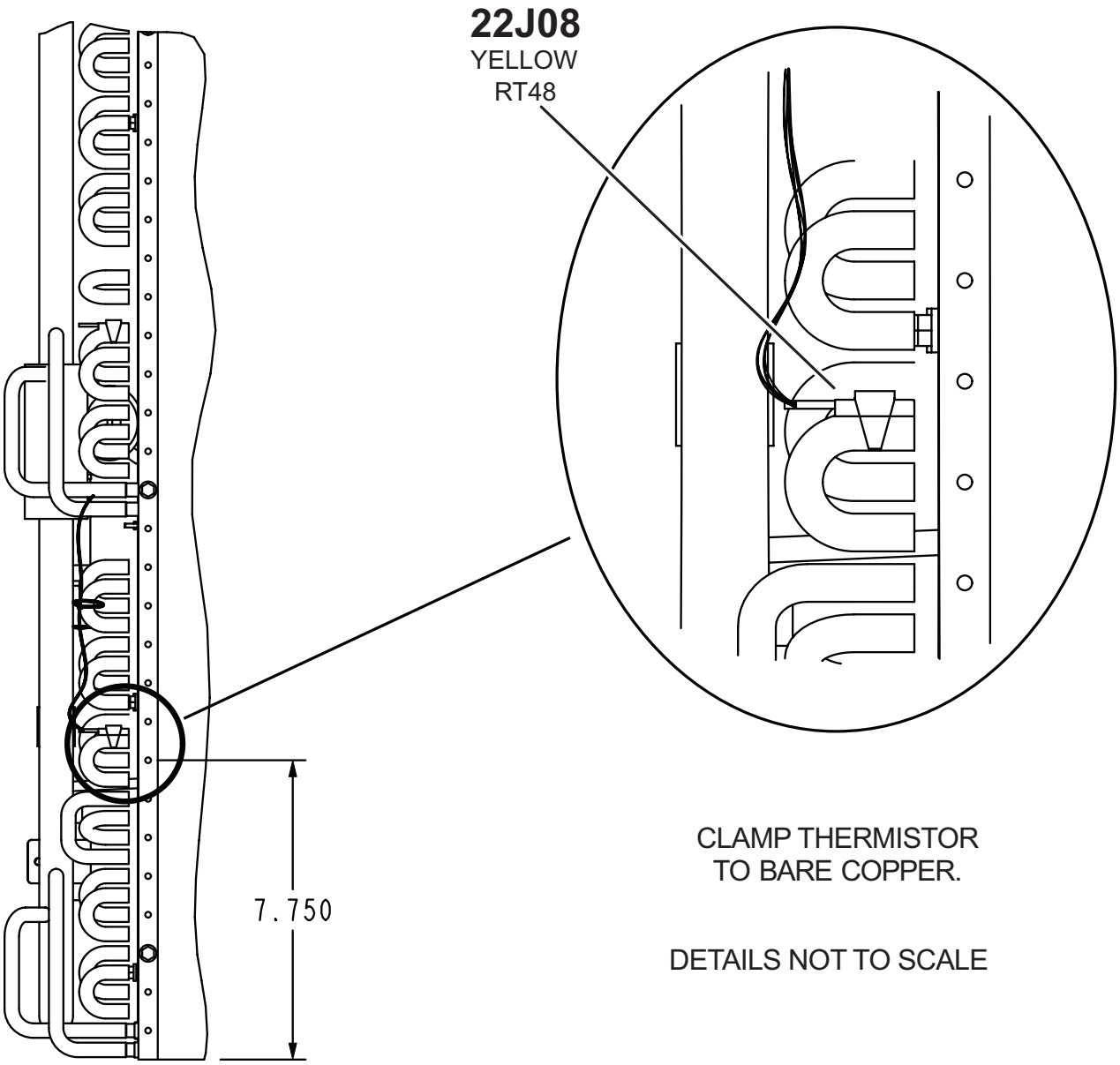



**FIGURE 10**

**LCM/LGM/LGT/LCT/SGH/SCH036, 048, 060, 072/074**
**CONDENSER COIL**
**RT48**

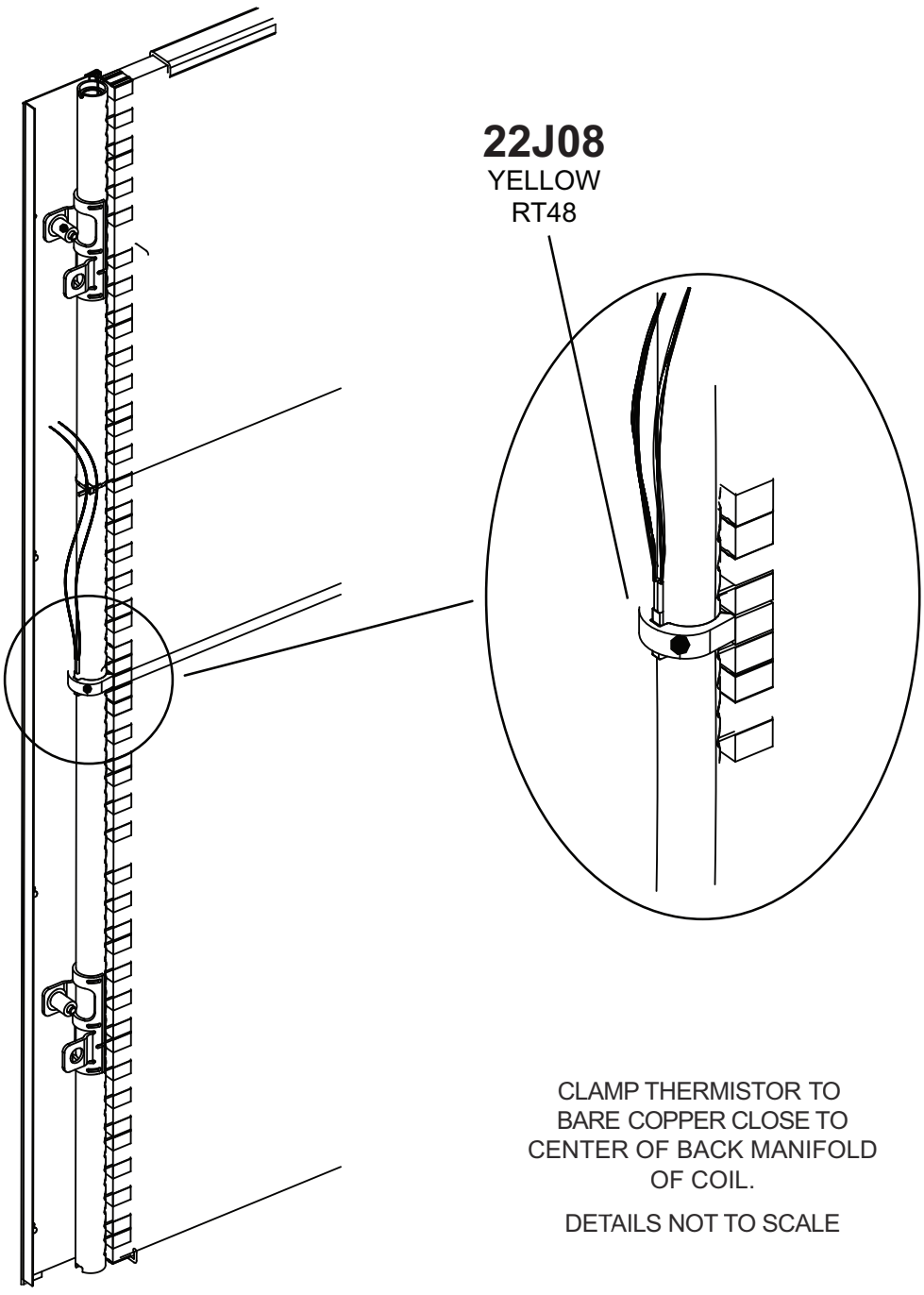



**FIGURE 11**

**LGM/LCM036, 048, 060, 074U5**
**CONDENSER COIL**
**(RT44)**

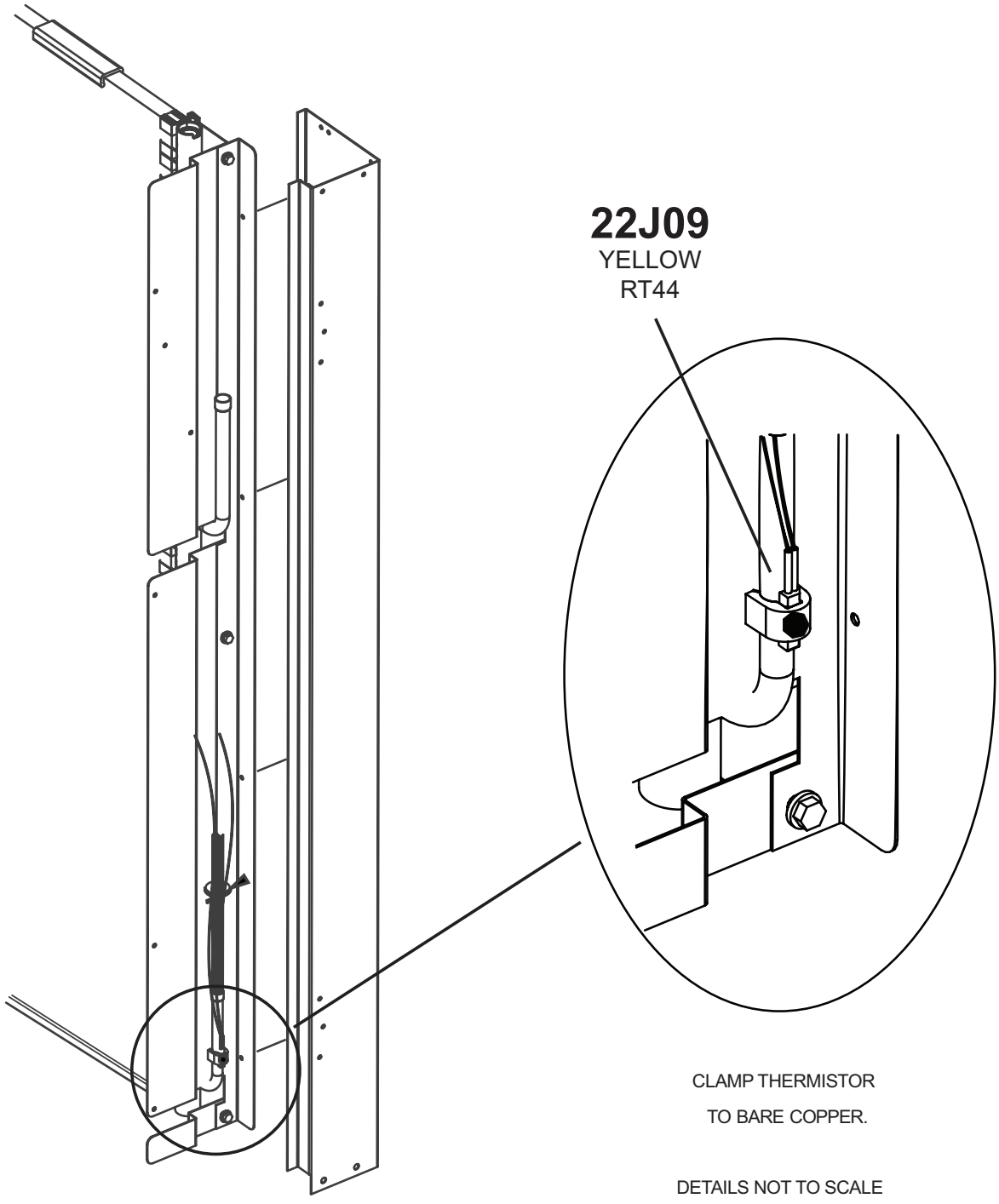



**FIGURE 12**

**LGT/LCT156, SGH/SCH120**
**EVAPORATOR COIL**
**(RT46, 47)**

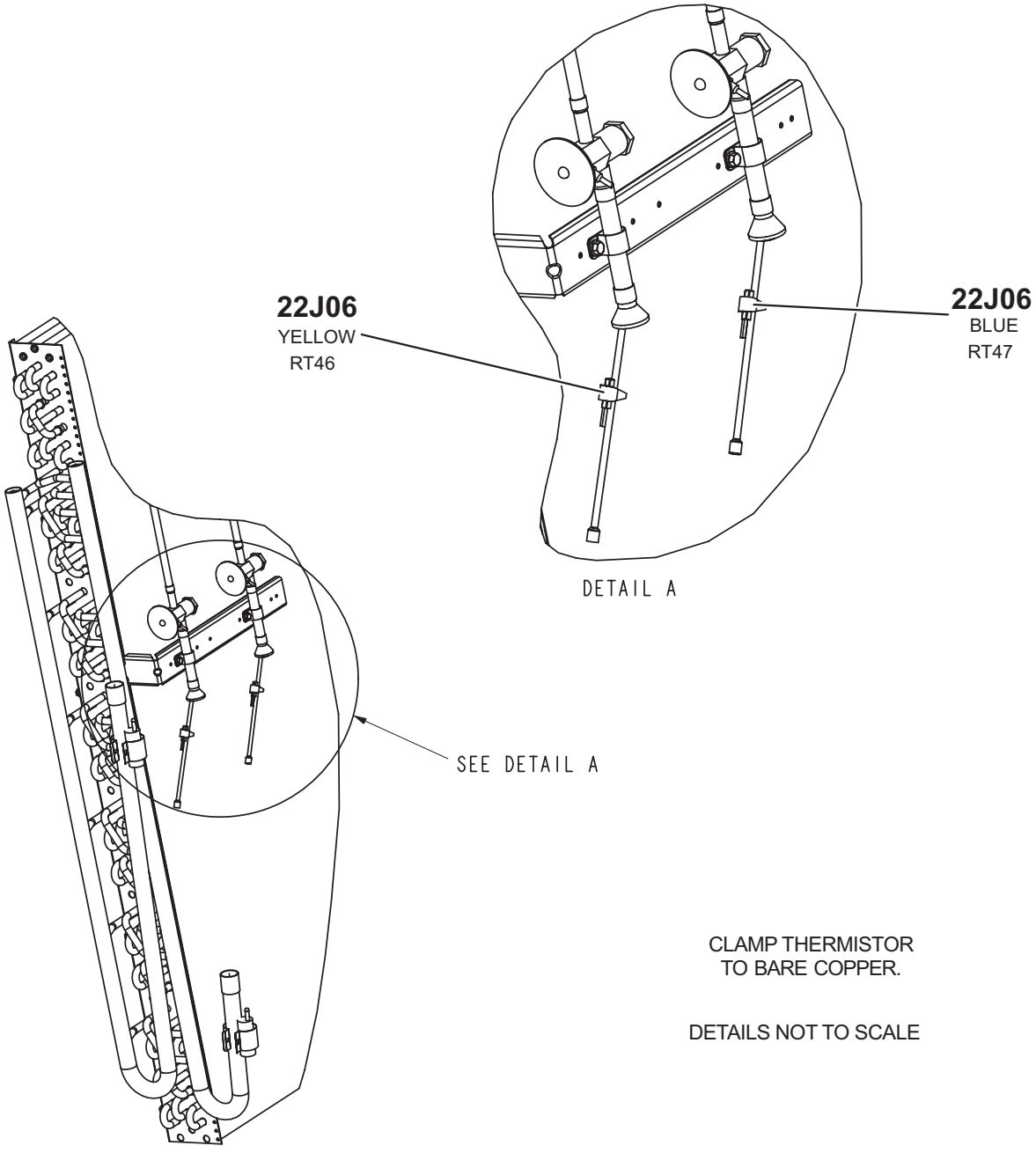



**FIGURE 13**

**LGT/LCT180; LCX/LGX180, 210, 240**
**EVAPORATOR COIL**
**RT46, 47, 50**

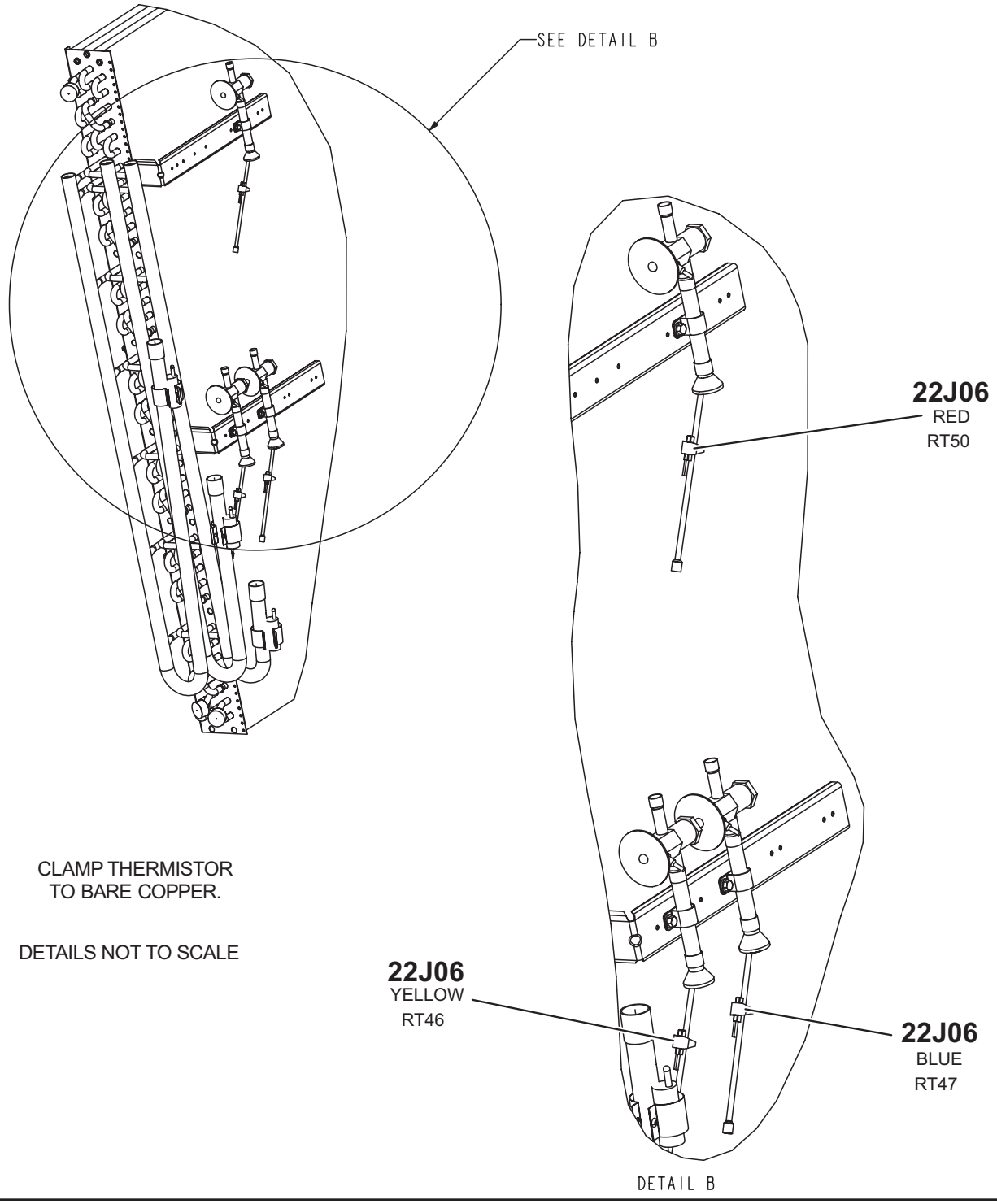



**FIGURE 14**

**LGT/LCT210, 240, 300; LCX/LGX300**
**EVAPORATOR COIL**
**RT46, 47, 50, 51**

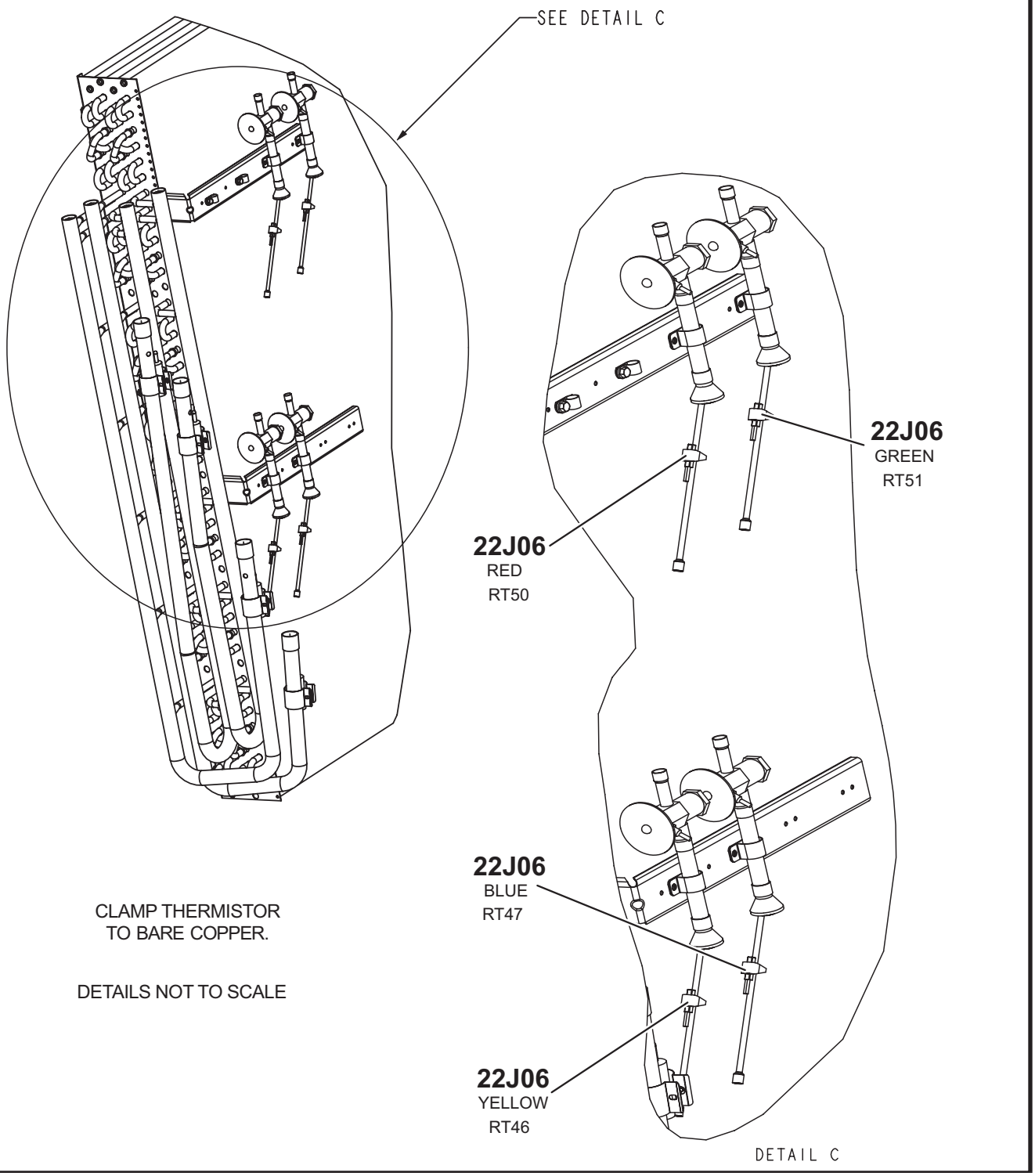



**FIGURE 15**

**LGT/LCT302, 360, SGH/SCH240**
**EVAPORATOR COIL**
**(RT46, 47, 50, 51)**

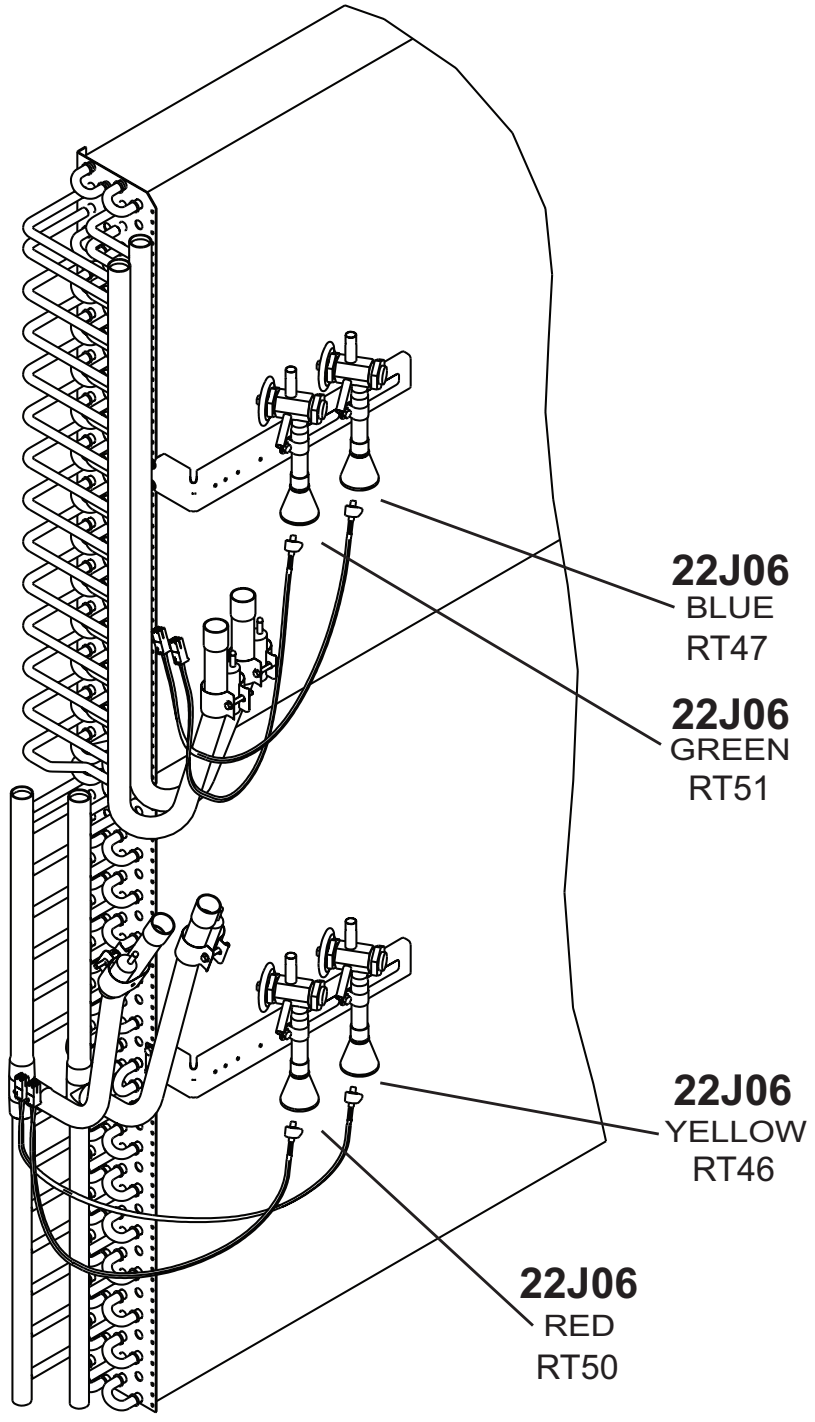



**FIGURE 16**

**LGT/LCT156, SGH/SCH120**
**CONDENSER / OUTDOOR COIL**
**(RT48, 49)**

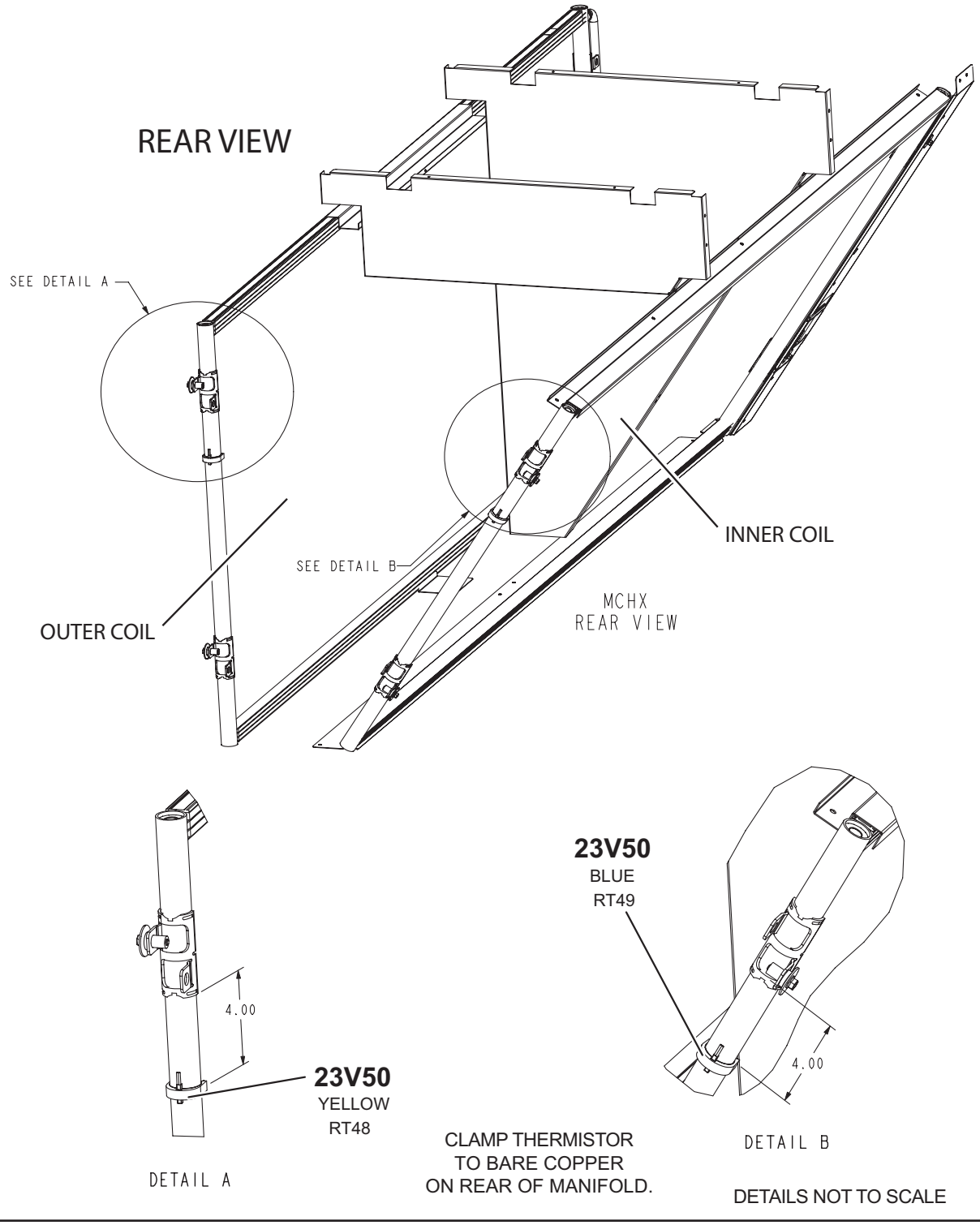



**FIGURE 17**

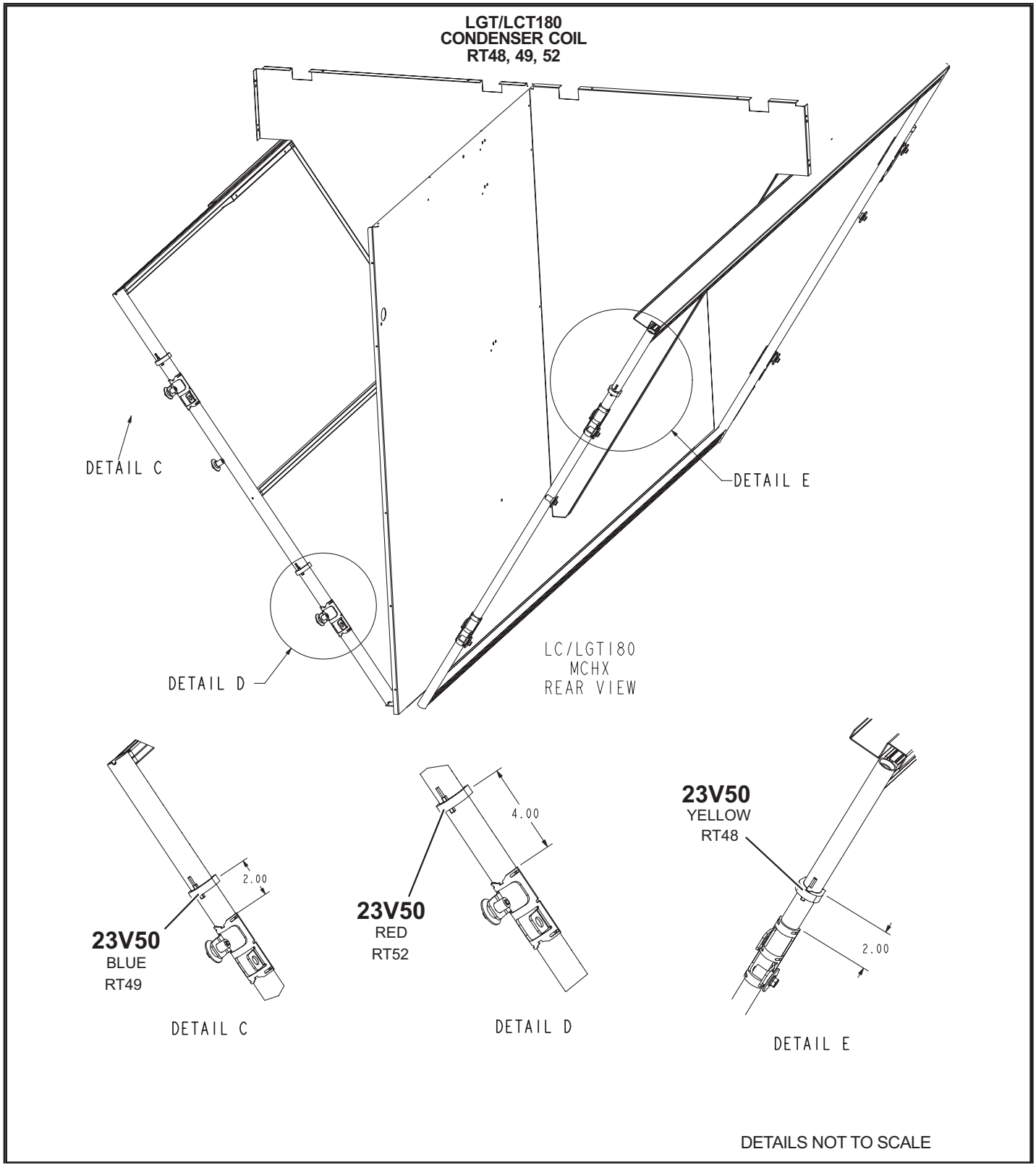
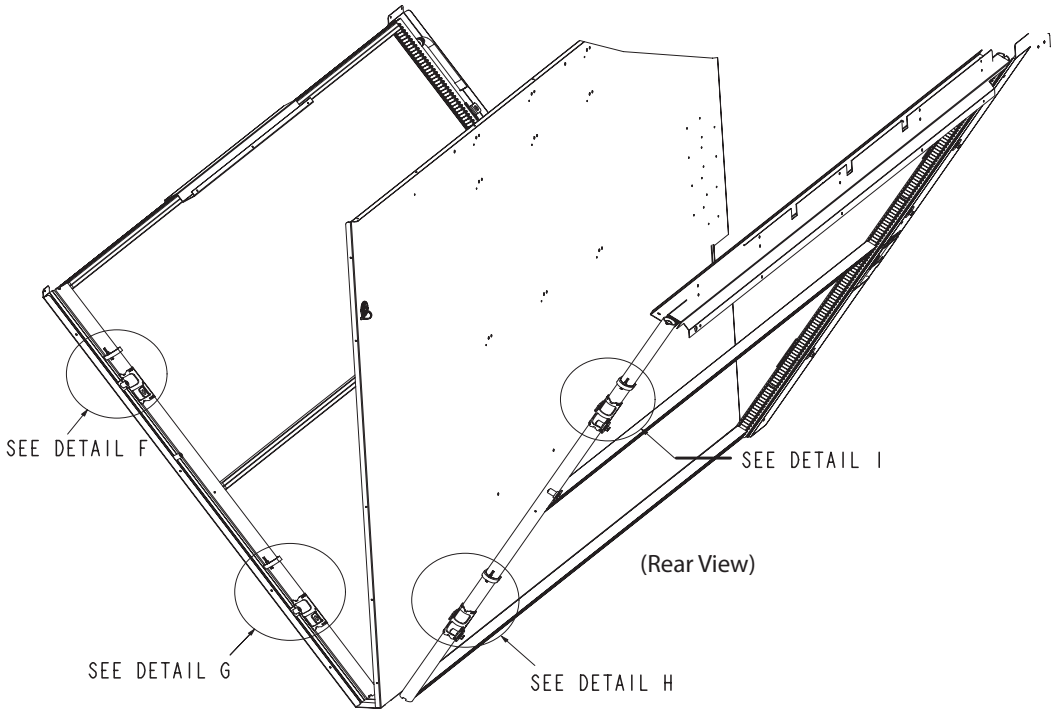
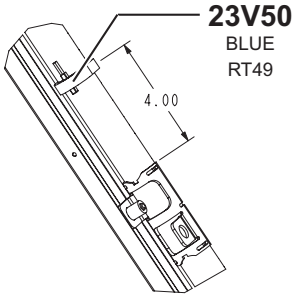

LGT/LCT180
CONDENSER COIL
RT48, 49, 52
DETAIL C
DETAIL E
DETAIL D
LC/LGT180
MCHX
REAR VIEW
2.00
23V50
BLUE
RT49
DETAIL C
4.00
23V50
RED
RT52
DETAIL D
23V50
YELLOW
RT48
2.00
DETAIL E
DETAILS NOT TO SCALE

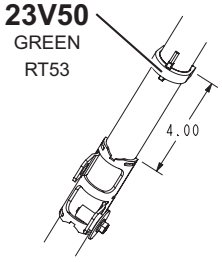
**FIGURE 18**

**LGT/LCT210, 240, 300**
**CONDENSER COIL**
**RT48, 49, 52, 53**

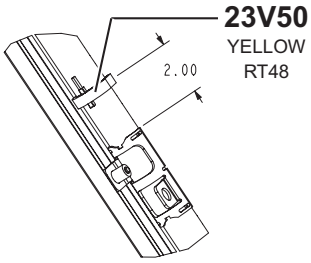


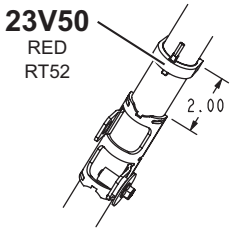

SEE DETAIL G




SEE DETAIL H




SEE DETAIL F

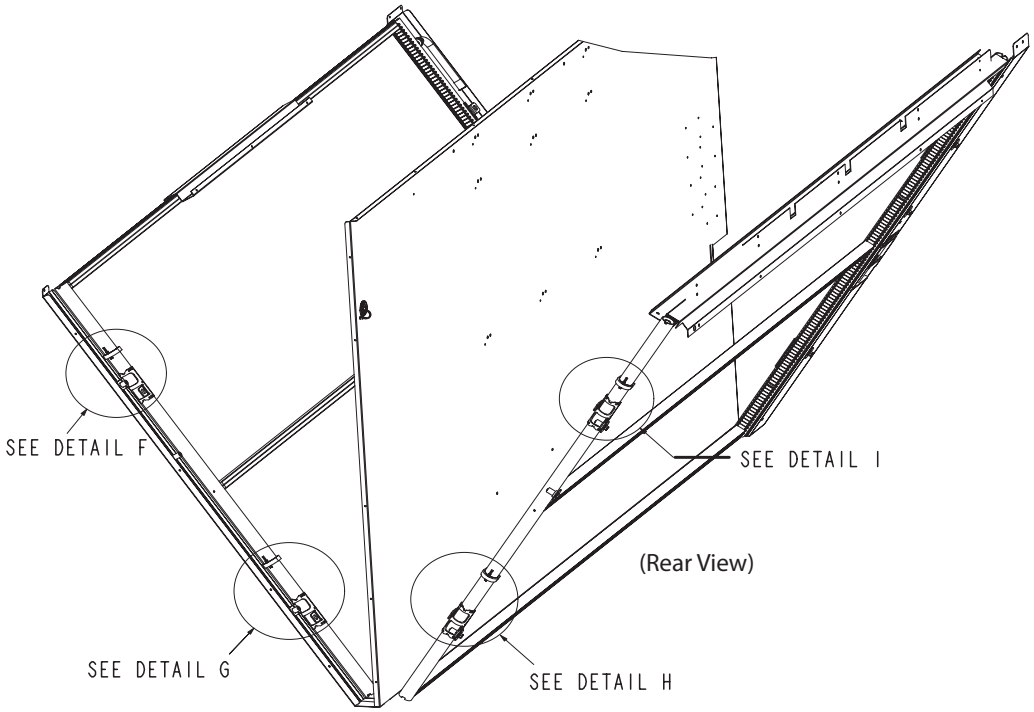


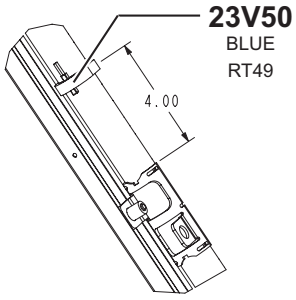

SEE DETAIL I

DETAILS NOT TO SCALE

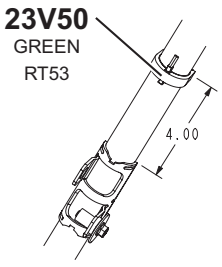
**FIGURE 19**

**LGT/LCT302, 360, SGH/SCH240**
**CONDENSER COIL**
**RT48, 49, 52, 53**

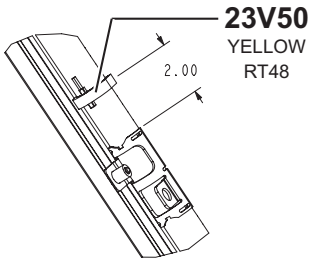


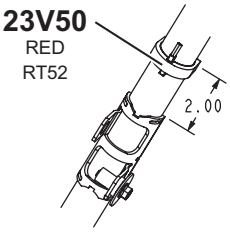

SEE DETAIL F




SEE DETAIL I




SEE DETAIL G



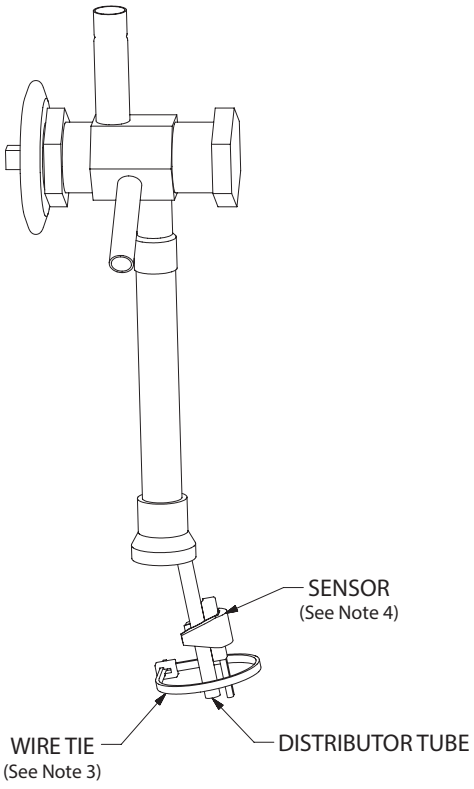

SEE DETAIL H

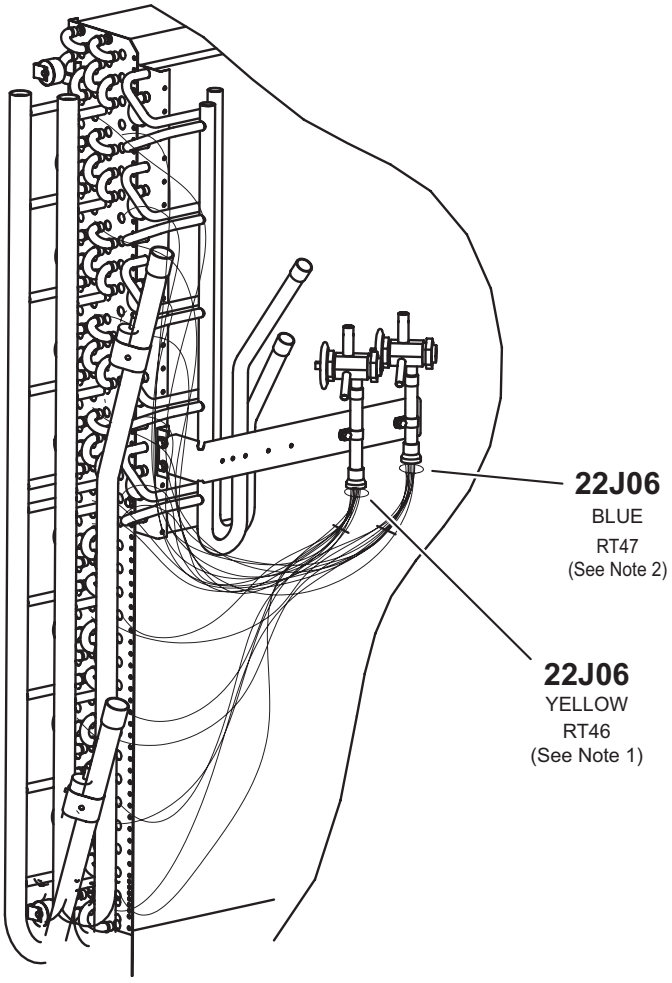
DETAILS NOT TO SCALE

**FIGURE 20**

**LGT/LCT092, 102, 120, 150**
**LGX/LCX150**
**LHX092, 102, 120**
**EVAPORATOR COIL**
**RT46, RT47**

NOTES:
1. RT46 SENSOR, STAGE 1 DISTRIBUTOR TUBE, ANY TUBE BEFORE THE BLACK DISTRIBUTOR SLEEVE.
2. RT47 SENSOR, STAGE 2 DISTRIBUTOR TUBE, ANY TUBE BEFORE THE BLACK DISTRIBUTOR SLEEVE
3. USE WIRE TIE (ITEM 20) TO SECURE WIRE TO COPPER TUBE FOR STRAIN RELIEF.
4. ATTACH SENSORS SO WIRES ARE ORIENTED IN DOWNWARDS DIRECTION AS SHOWN.




DETAILS NOT TO SCALE

**FIGURE 21**

**LGT/LCT092, 102, 120, 150**
**CONDENSER COIL**
**RT48, RT49**

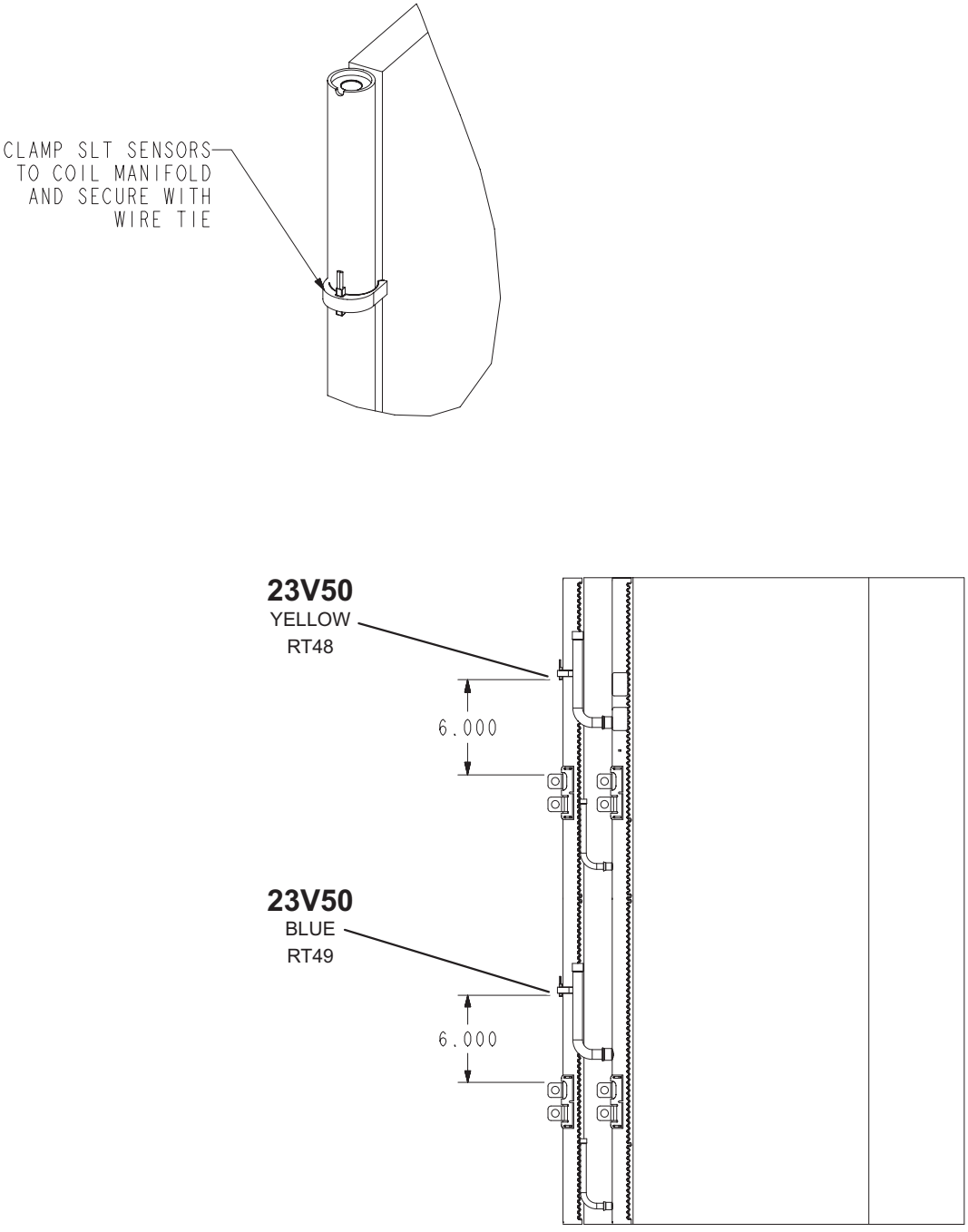
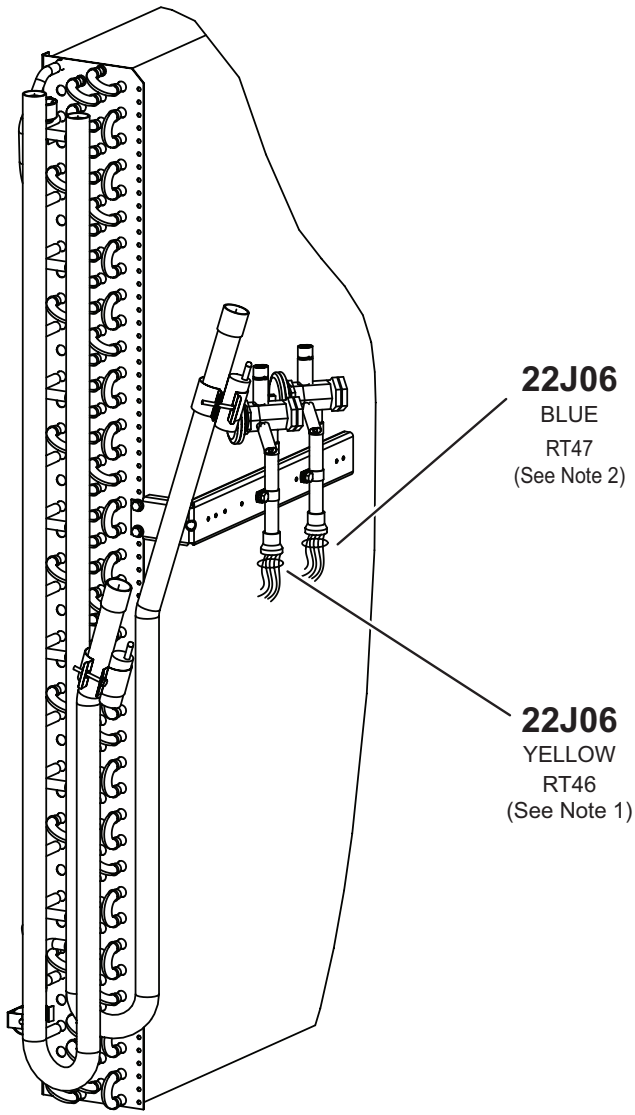
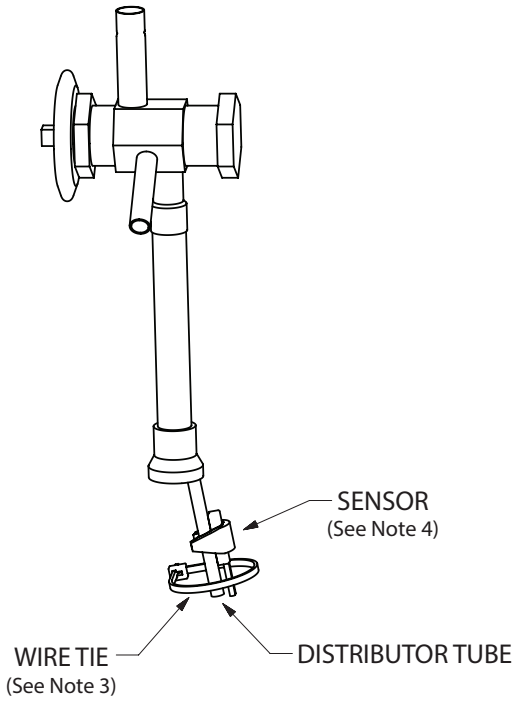



**FIGURE 22**

**LHT/LDT078, 092, 102, 120, 152**
**EVAPORATOR COIL**
**RT46, RT47**

NOTES:
1. RT46 SENSOR, STAGE 1 DISTRIBUTOR TUBE, ANY TUBE BEFORE THE BLACK DISTRIBUTOR SLEEVE.
2. RT47 SENSOR, STAGE 2 DISTRIBUTOR TUBE, ANY TUBE BEFORE THE BLACK DISTRIBUTOR SLEEVE.
3. USE WIRE TIE (ITEM 03) TO SECURE WIRE TO COPPER TUBE FOR STRAIN RELIEF.
4. ATTACH SENSORS SO WIRES ARE ORIENTED IN DOWNWARDS DIRECTION AS SHOWN.



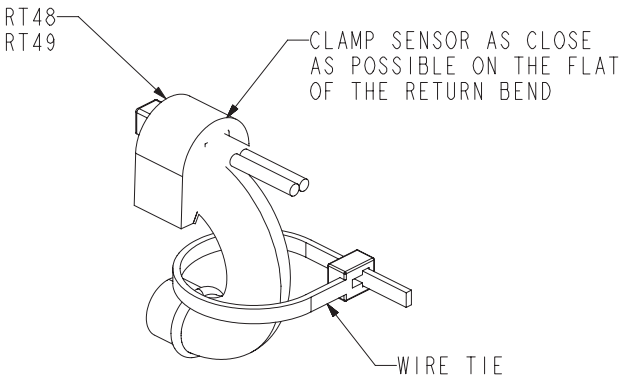




CLAMP THERMISTOR
TO BARE COPPER

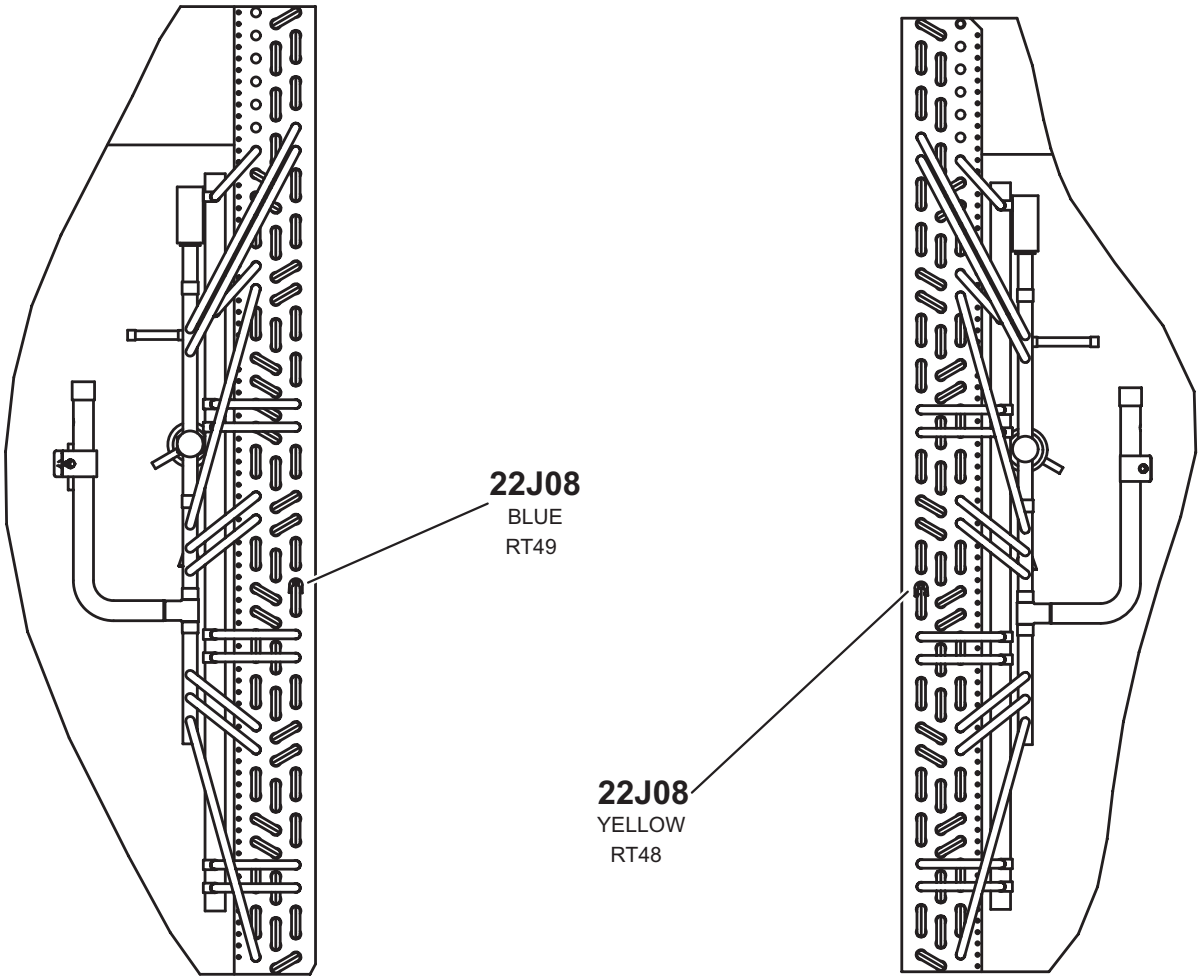
DETAILS NOT TO SCALE

**FIGURE 23**

**LHT/LDT078, 092, 102, 120, 152**
**CONDENSER COIL**
**RT48, RT49**




SENSOR DETAIL




STAGE 2

DETAILS NOT TO SCALE

**FIGURE 24**

**LHT/LDT156, 180, 240; LHX180, 240**
**INDOOR COIL**
**RT46, RT47**

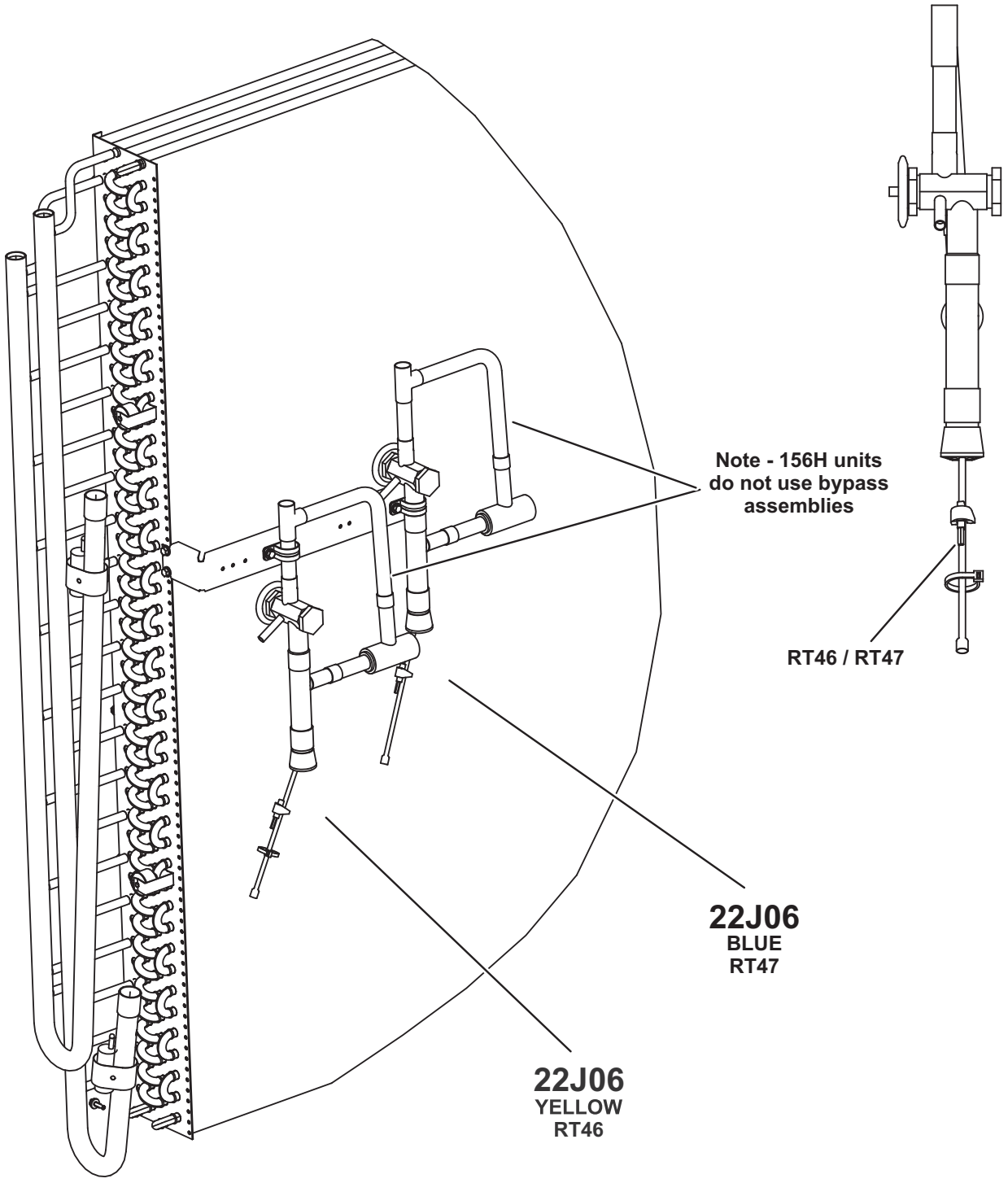



**FIGURE 25**

**LHT/LDT156, 180, 240**
**OUTDOOR COIL**
**RT48, RT49**

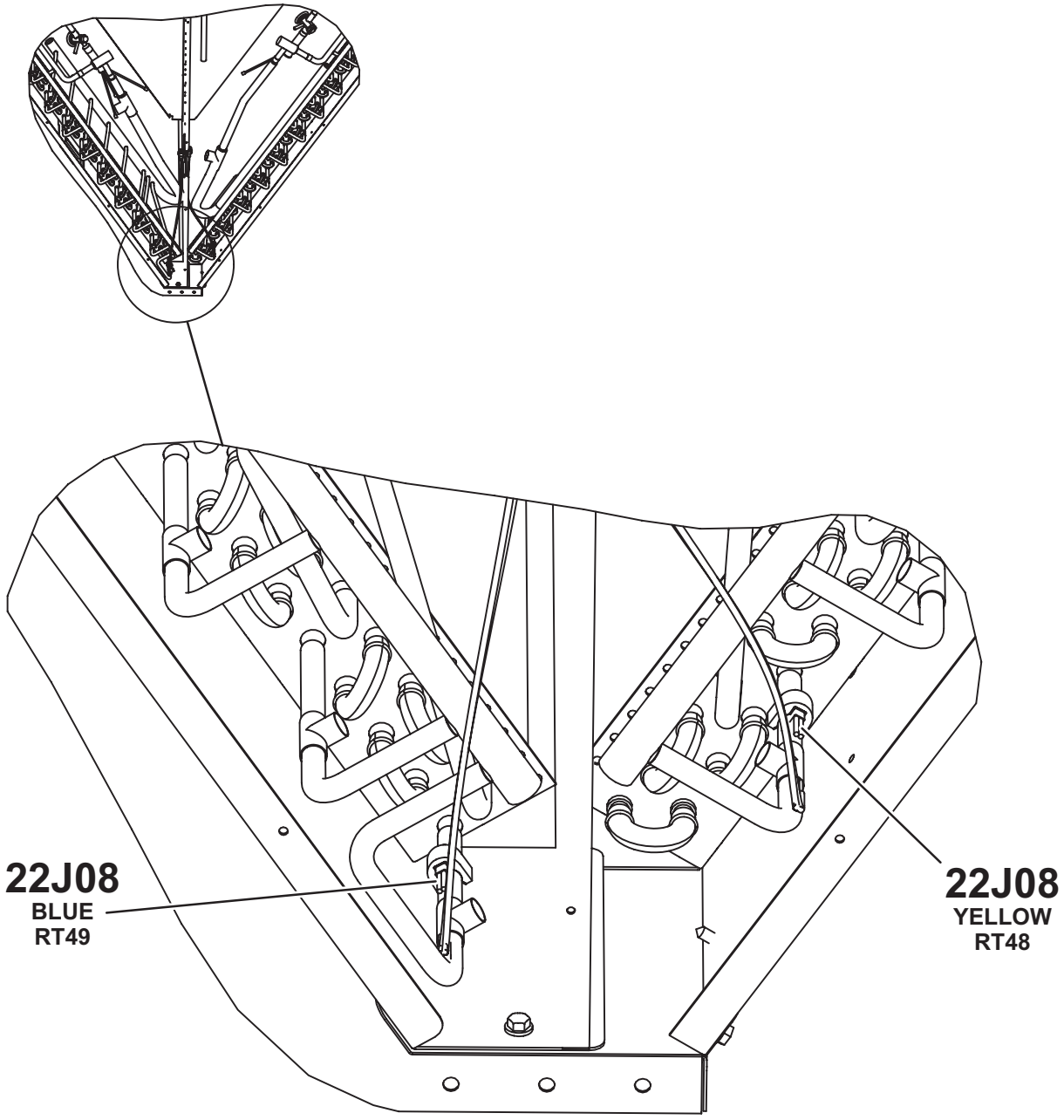



**FIGURE 26**

**LHT/LDT302**
**INDOOR COIL**
**RT46, RT47**

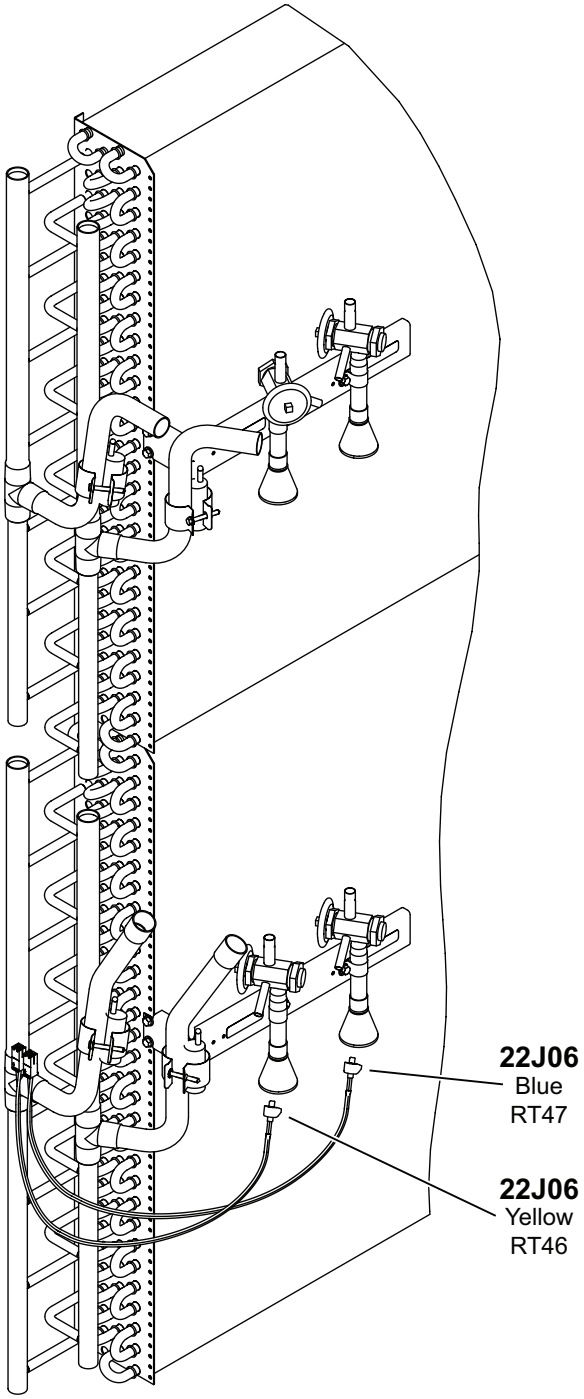



**FIGURE 27**

**LHT/LDT302**
**OUTDOOR COIL**
**RT48, RT49**

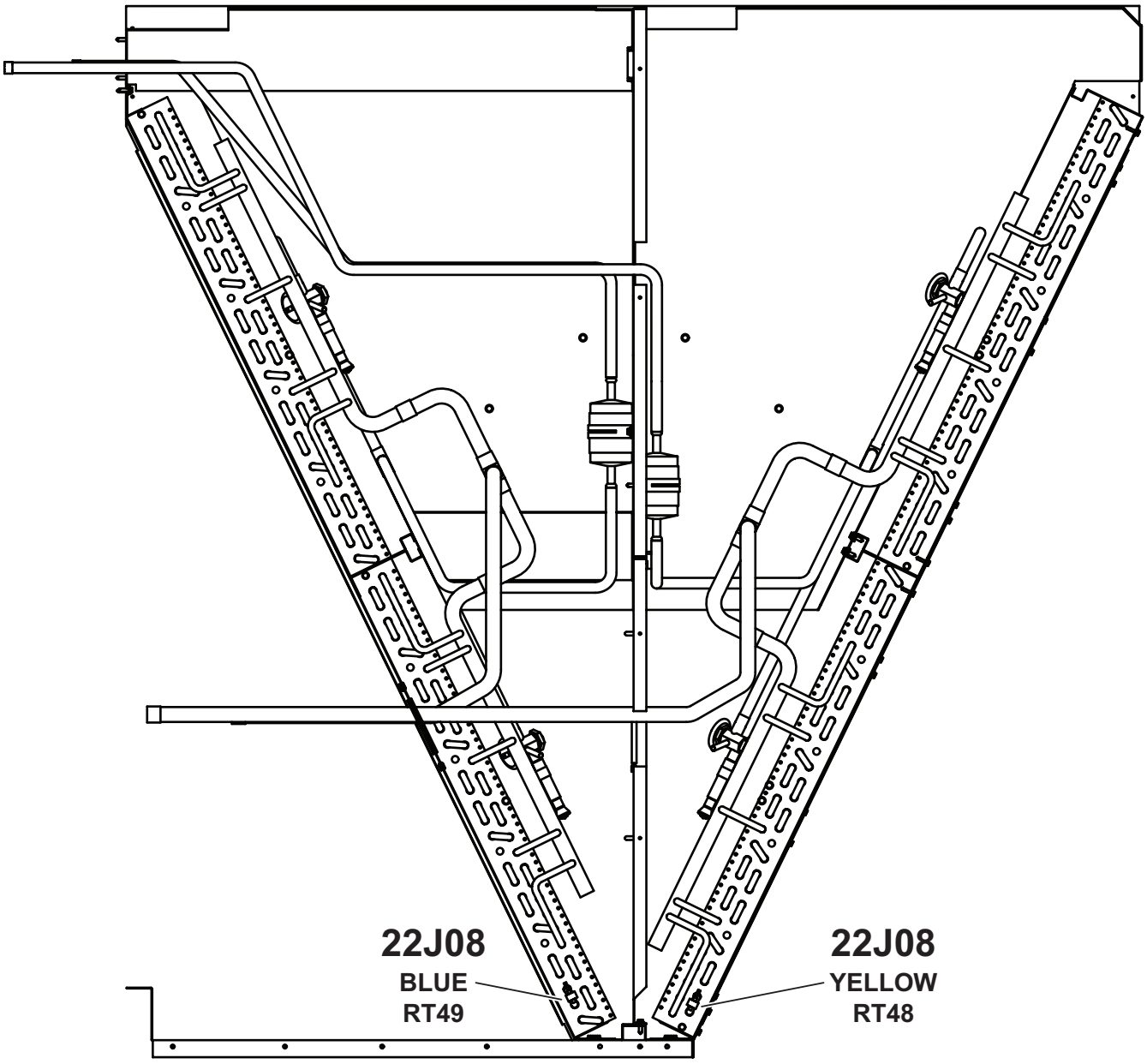



**FIGURE 28**

**LHX180, 240**
**THERMISTOR LOCATION**
**OUTDOOR COIL**
**RT48, RT49**

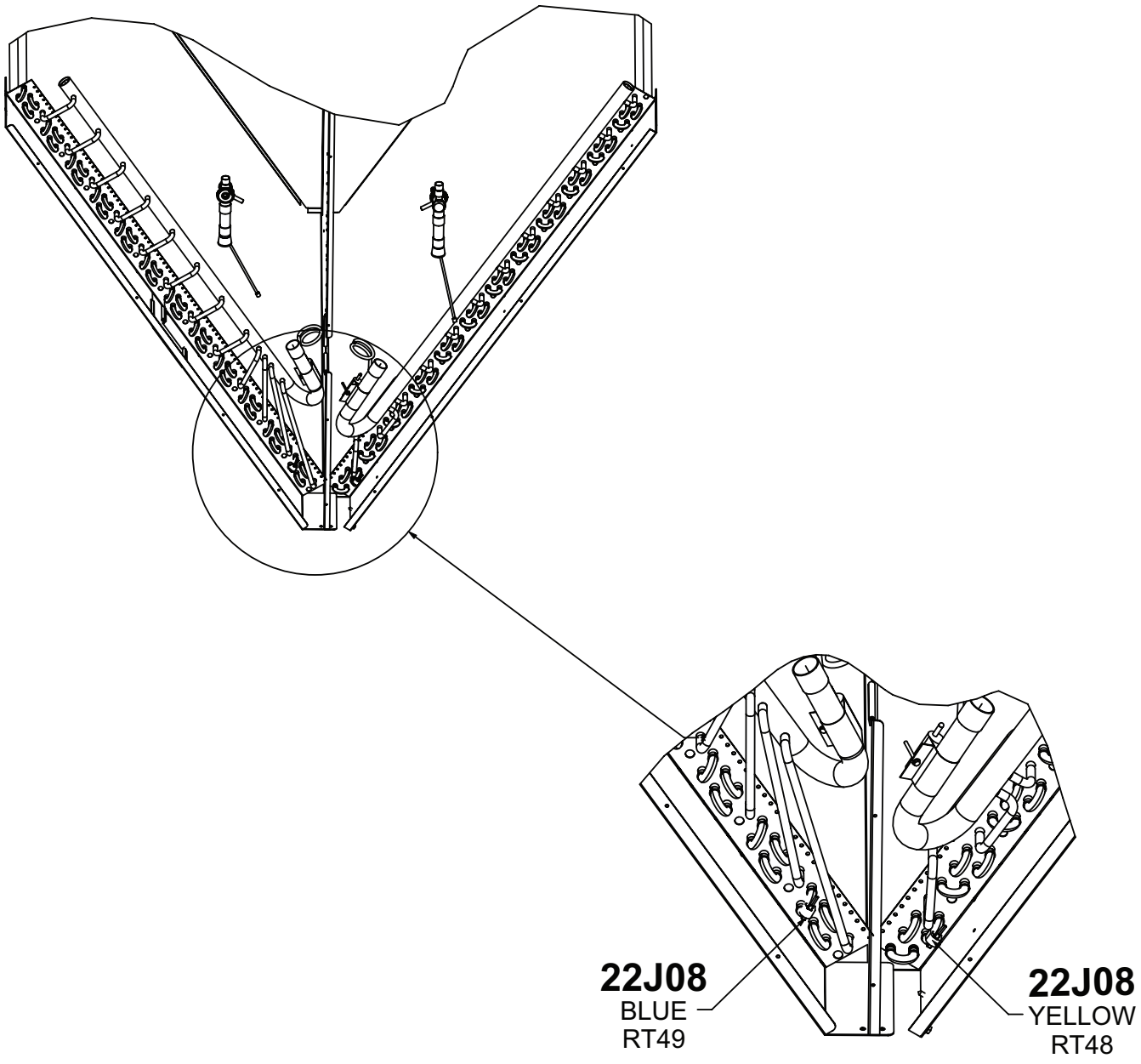



**FIGURE 29**

**LHX300**
**THERMISTOR LOCATION**
**OUTDOOR COIL**
**RT48, RT49**

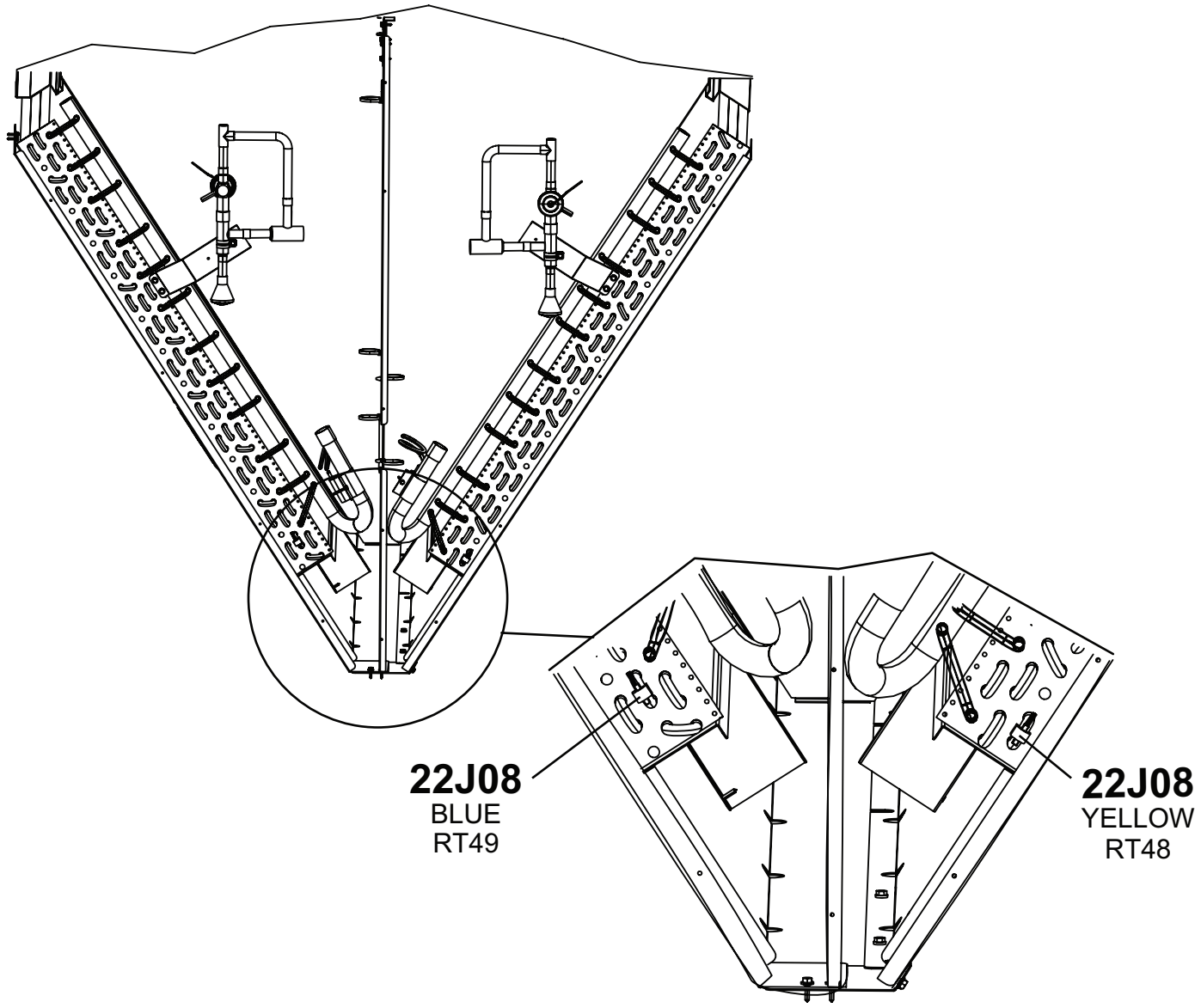
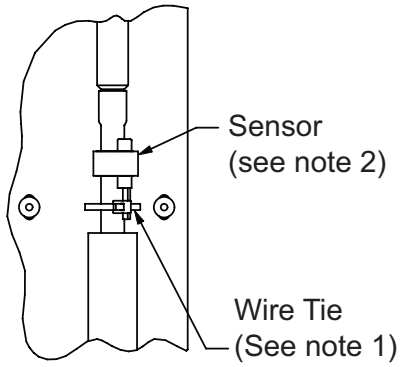



**FIGURE 30**

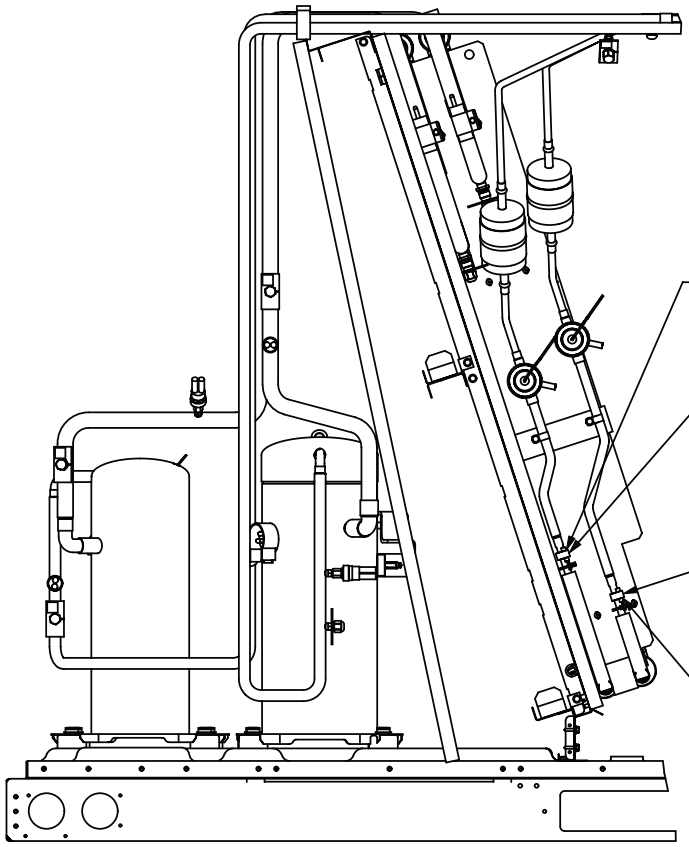
## LGX/LCX 092, 102, 120
## EVAPORATOR COIL
## RT46, RT47

**NOTES:**

1. Use wire tie to secure wire to copper tube for strain relief.
2. Attach sensors so wires are oriented in downwards direction as shown.



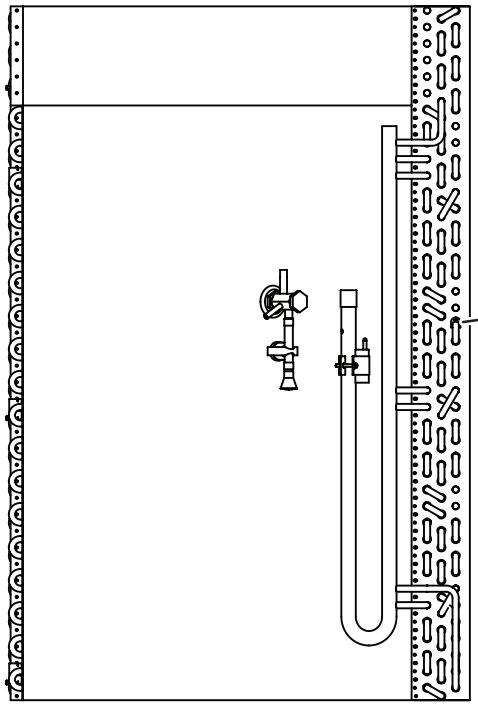

Sensor Detail (MCHX only)




**MICROCHANNEL SENSOR LOCATION**

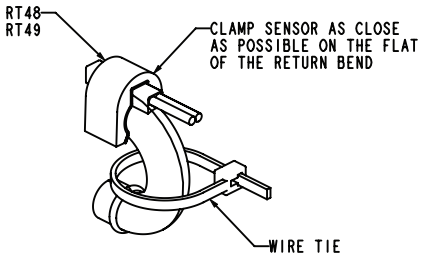
**FIGURE 31**

**LHX092, 102, 120**
**CONDENSER COIL**
**RT48, RT49**



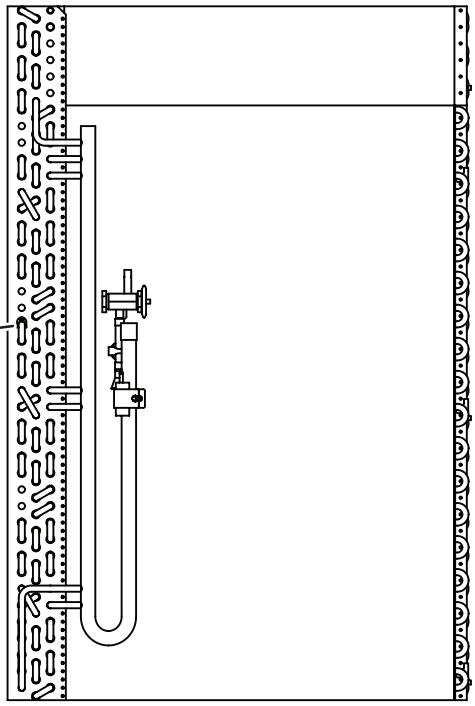
STAGE 2

**22J08**
BLUE
RT49
(See Notes 2, 3, 4, 5)




SENSOR DETAIL

**22J08**
YELLOW
RT48
(See Notes 1, 3, 4, 5)



STAGE 1

NOTES:
1. RT48 SENSOR, STAGE 1
2. RT49 SENSOR, STAGE 2
3. APPLY SILICONE GREASE (ITEM 29 ) UNDER RT48,RT49 (ITEMS 27 AND 28) BEFORE ATTACHING THE SENSOR TO THE COPPER TUBE
4. USE WIRE TIE (ITEM 05) TO SECURE WIRE TO COPPER TUBE FOR STRAIN RELIEF.
5. ATTACH SENSORS SO WIRES ARE ORIENTED IN "DOWNWARDS" DIRECTION (SHOWN)

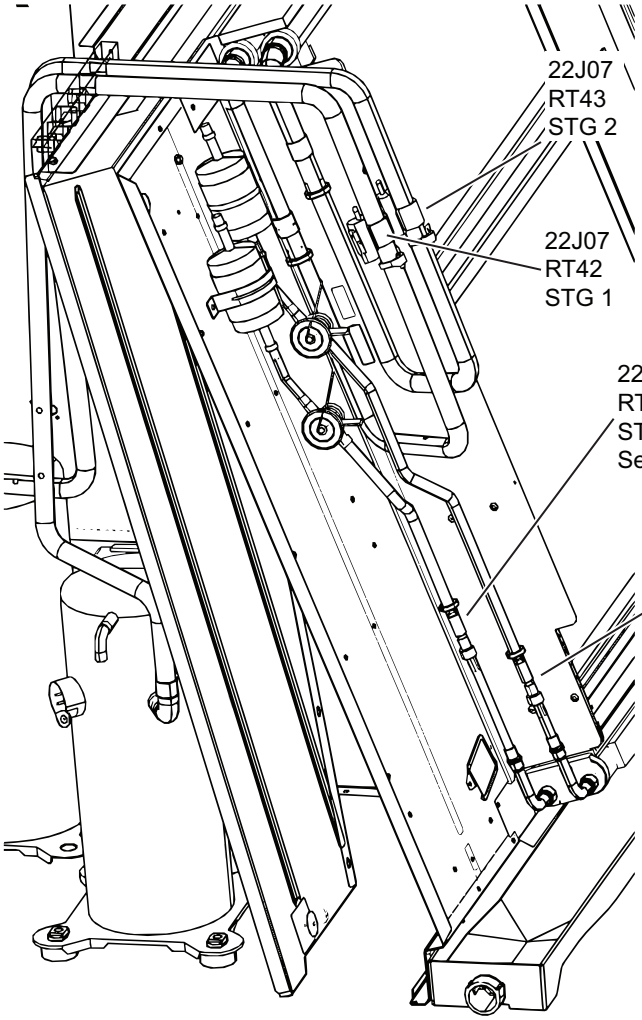
DETAILS NOT TO SCALE

**FIGURE 32**

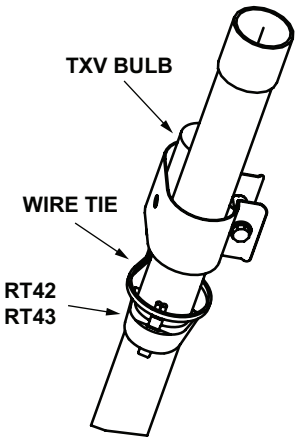
## LGM/LCM 092, 102, 120, 150
## EVAPORATOR COIL MCHX
## RT42, 43, 46, 47

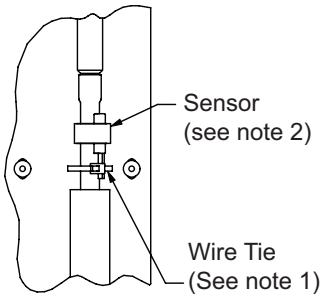
**NOTES:**

1. Use wire tie to secure wire to copper tube for strain relief.
2. Attach sensors so wires are oriented in downwards direction as shown.




MICROCHANNEL SENSOR LOCATION




Sensor Detail (MCHX only)

**FIGURE 33**