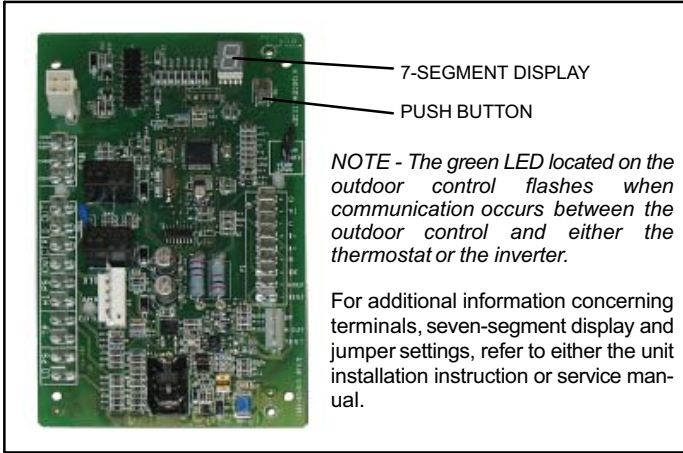507531-03
8/2015
Supersedes 7/2015

CONTROL REPLACEMENT KIT

Installation Instructions for iComfort® Outdoor Control Replacement Kit (14G30) 614111-04

7-SEGMENT DISPLAY

PUSH BUTTON

NOTE - The green LED located on the outdoor control flashes when communication occurs between the outdoor control and either the thermostat or the inverter.

For additional information concerning terminals, seven-segment display and jumper settings, refer to either the unit installation instruction or service manual.

⚠ WARNING

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 qualified installer or service agency.

⚠ WARNING

Electric 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 electric power supplies before opening access panel. Unit may have multiple power supplies.

Shipping and Packing List

Package 1 of 1 contains:

1 - iComfort outdoor control (part # 103686-06)

Application

This kit can be field applied to models that use any 103686 series iComfort outdoor control.

Installation and Configuration

1. Disconnect all power to system (Indoor and outdoor units).

2. Remove the existing communicating thermostat from the wall base.

3. Tag location of wires attached to the existing control and use wiring diagram on access panel of outdoor unit for reference if necessary.

4. Remove existing outdoor control.

5. Install new outdoor control in the same location as original outdoor control.

6. Reconnect wires to same terminals as original outdoor control.

7. With communicating thermostat still removed from the wall base, turn main power on to indoor unit.

8. Program the new outdoor control using the flow chart on Figure 1 as reference.

9. Turn main power **ON** to outdoor unit.

10. Turn main power **OFF** to indoor unit.

11. Re-install room thermostat onto wall base.

12. Turn main power **ON** to indoor unit.

13. Once power is restored, use the procedure outlined in Figure 1 to configure the iComfort outdoor control.

Table 1. Unit Selection Codes

Unit Code	Model	Size and Type
2	XP25-024	2-Ton Heat Pump
4	XP25-036	3-Ton Heat Pump
6	XP25-048	4-Ton Heat Pump
7	XP25-060	5-Ton Heat Pump
9	XC25-024	2-Ton Air Conditioner
11	XC25-036	3-Ton Air Conditioner
13	XC25-048	4-Ton Air Conditioner
14	XC25-060 (Rev -01)	5-Ton Air Conditioner
15	XC25-060 (Rev -02 or higher)	5-Ton Air Conditioner
17	XP20-024	2-Ton Heat Pump
19	XP20-036	3-Ton Heat Pump
21	XP20-048	4-Ton Heat Pump
22	XP20-060	5-Ton Heat Pump
24	XC20-024	2-Ton Air Conditioner
26	XC20-036	3-Ton Air Conditioner
28	XC20-048	4-Ton Air Conditioner
29	XC20-060	5-Ton Air Conditioner

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Configuring Unit

When installing a replacement outdoor control, the unit selection code may have to be manually assigned using the 7-segment display and push button on the control. The unit code sets unit type, capacity and outdoor fan RPM.

Power-up - The unit selection code (two-digit number) represents the unit type (heat pump or air conditioner) and capacity of the outdoor unit. During typical unit power-up the firmware version, unit type, unit capacity and unit selection code will appear on the 7-segment display sequentially.

However, after replacing the outdoor control and during initial unit power-up, if three horizontal bars appear on the 7-segment display then the outdoor control will need to be manually configured for type and size using the unit selection code. Use the following procedure to configure the unit selection code.

Configuring Unit Selection Code

Outdoor control is in **IDLE** mode (No heating or cooling demand)

Yes →

No → Turn iComfort thermostat to **OFF**

To enter **unit selection mode**, push and hold the button next to the 7-segment display until **dash** symbol appears and immediately release button.

SELECTED

With *PU* flashing, push and hold the button down. The display will start to cycle through all of the codes.

This allows a specific unit selection code which corresponds to the outdoor unit type and inverter.

SELECTED

With *PU* flashing, push and hold the button down. The display will start to cycle through all of the available codes.

NOT SELECTED

NOTE - The PU option will repeat five times and if no selection is made it will return to idle mode.

SELECTED

NOT SELECTED

1. When the correct unit section code is displayed, release button immediately [display flashes].
2. Push and hold button until selection stops flashing during one of the three cycles. [release push button]
3. If selection is not made during those three cycles the control returns to idle mode.

Unit Code	Model	Size and Type
2	XP25-024	2-Ton Heat Pump
4	XP25-036	3-Ton Heat Pump
6	XP25-048	4-Ton Heat Pump
7	XP25-060	5-Ton Heat Pump
9	XC25-024	2-Ton Air Conditioner
11	XC25-036	3-Ton Air Conditioner
13	XC25-048	4-Ton Air Conditioner
14	XC25-060 (Rev -01)	5-Ton Air Conditioner
15	XC25-060 (Rev -02 or higher)	5-Ton Air Conditioner
17	XP20-024	2-Ton Heat Pump
19	XP20-036	3-Ton Heat Pump
21	XP20-048	4-Ton Heat Pump
22	XP20-060	5-Ton Heat Pump
24	XC20-024	2-Ton Air Conditioner
26	XC20-036	3-Ton Air Conditioner
28	XC20-048	4-Ton Air Conditioner
29	XC20-060	5-Ton Air Conditioner

SELECTED

Once selected the outdoor control will store the unit selection code and automatically exit the configuration mode and reboot.

If three horizontal bars appear on the 7-segment display during power-up then the outdoor control did not store the unit selection code.

If this occurs then repeat the configuration procedure again.

EXAMPLE 7-SEGMENT DISPLAY STRING
(will display in sequential order)

2 . 3 → FIRMWARE VERSION

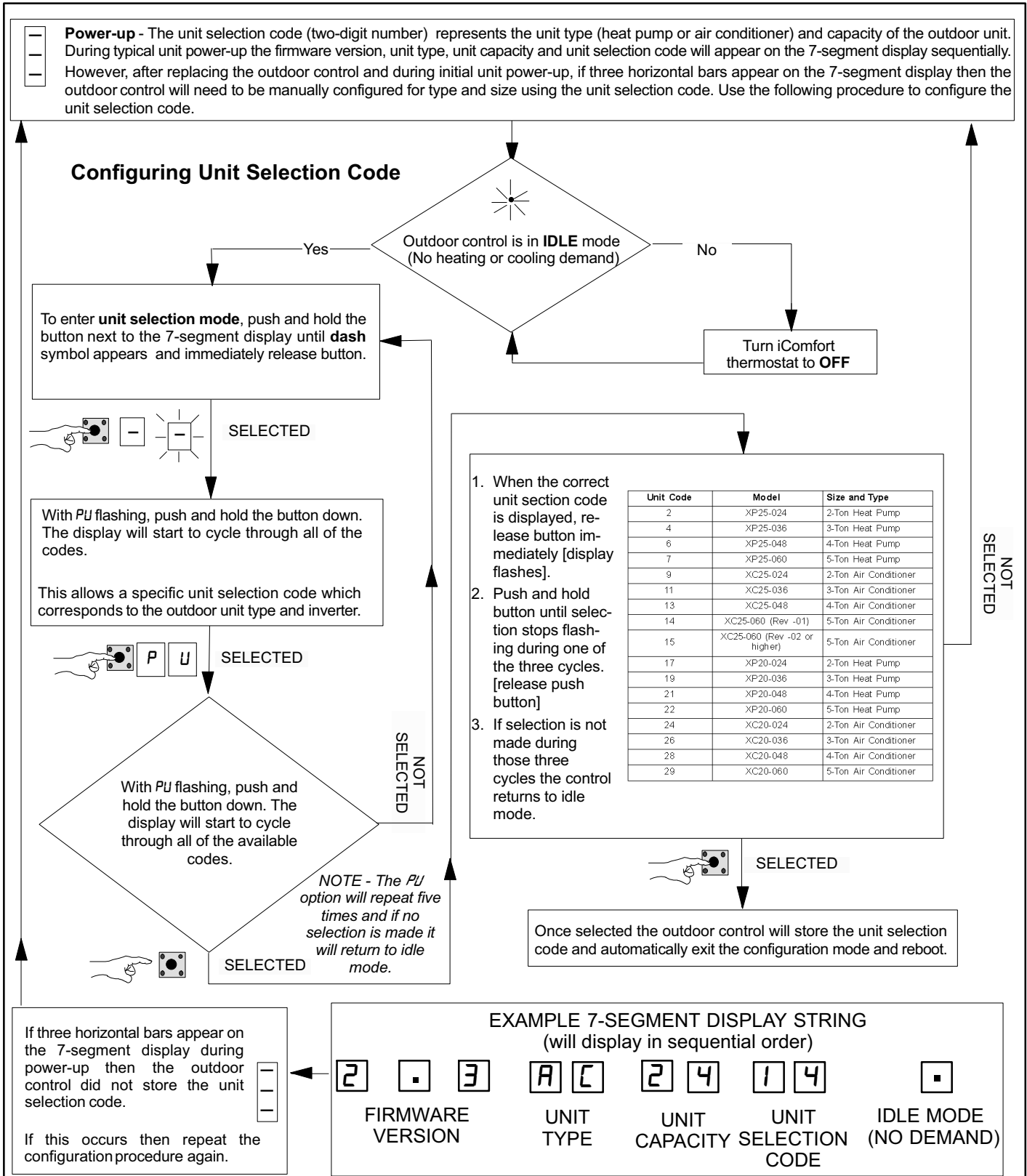A C → UNIT TYPE

2 4 → UNIT CAPACITY

1 4 → UNIT SELECTION CODE

. → IDLE MODE (NO DEMAND)

Figure 1. Configuring Unit Selection Code