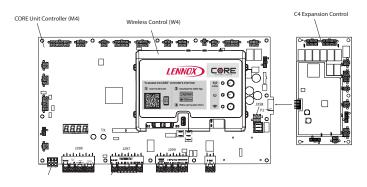


CONTROLS KITS AND ACCESSORIES

508156-01 3/2021

C4 Control Replacement Kit

INSTALLATION INSTRUCTIONS FOR C4 CONTROL REPLACEMENT KIT (21L15) FOR USE WITH LENNOX[®] CORE UNIT CONTROLLER (M4)



A 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.

Shipping and Packing List

Package 1 of 1 contains:

1 - C4 Control

Installation



A Phillips head screwdriver is required to remove the old C4 control from the RTU mounting panel.

The C4 control is compatible only with the CORE unit controller (M4).

- 1. Disconnect power to the RTU unit.
- 2. Unplug the wire harnesses from the C4 control being replaced.
- 3. Remove the five Phillips head screws securing existing C4 control from the M4 unit controller.

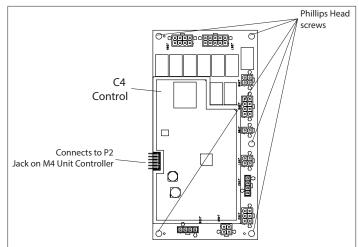


Table 1. Removing Screws

- 4. Remove C4 control from M4 unit controller mating connector (P2).
- 5. Install new C4 control at M4 unit controller mating connector (P2).
- 6. Secure new C4 control to M4 unit controller using screws removed in step 3.
- 7. Reconnect wire harnesses.
- 8. Restore all power to the unit.



C4 Control (A178) Connections

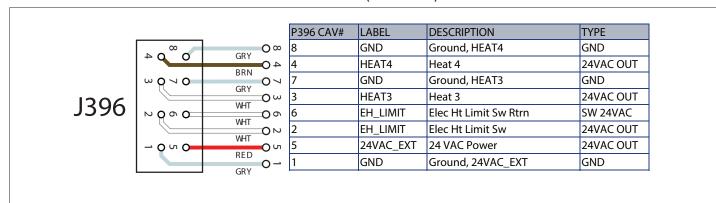


Table 2. P396 (Electric Heat)

Table 3. P396 (Gas Heat)

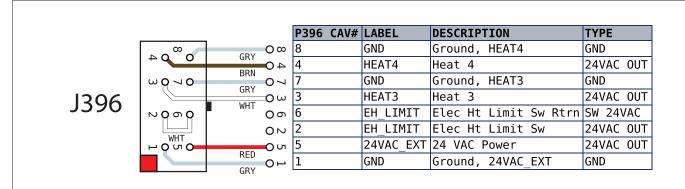


Table 4. P397 (Compressor Fans)

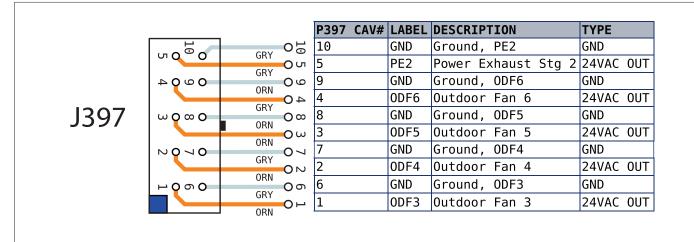


Table 5. P398 (Compressors 3 and 4)

			P398	CAV#	LABEL	DESCRIP	TION	TYPE	
		BLU-BLK 2	2		COMPR4	Compress	sor 4	24VAC	0UT
1308	2 0 40	04	4		GND	Ground,	COMPR4	GND	
7220	1		1		COMPR3	Compress	sor 3	24VAC	0UT
	<u> </u>	GRY O 3	3		GND	Ground,	COMPR3	GND	

Table 6. P399 (Pressure Switches 3 and 4)

			P399 CA	/# LABEL	DESCRIPTION	ТҮРЕ
		BLU-BLK 8	8	24VAC_EXT	24 VAC Power, HPSW4	24VAC OUT
J399		BLU-BLK 4	4	S96-HPSW4	High Press Sw Comp 4	SW 24VAC
	30 70	BLU-BLK O 7 BLU	7	24VAC_EXT	24 VAC Power, HPSW3	24VAC OUT
		BLU O 3	3	S28-HPSW3	High Press Sw Comp 3	SW 24VAC
	20 60	BLU-BLK 6	6	24VAC_EXT	24 VAC Power, LPSW4	24VAC OUT
		BLU-BLK BLU-BLK 2	2	S97-LPSW4	Low Press Sw Comp 4	SW 24VAC
		BLU-BLK BLU	5	24VAC_EXT	24 VAC Power, LPSW3	24VAC OUT
		BLU BLU O 1	1	S98-LPSW3	Low Press Sw Comp 3	SW 24VAC

Table 7. P400 (24VAC)

			P400	CAV#	LABEL	DESCRIPT	ION		ТҮРЕ
1400	1 20	RED 0 1	1		24VAC_IN	External	. 24VAC	2 Power	24VAC IN
J400		GRY O 2	2		GND	Ground,	24VAC	Power Return	GND

Table 8. P401 (All Evaporators)

		P401 CAV#	LABEL	DESCRIPTION	ТҮРЕ
	RED-BLK 2	2	RT51	Comp 4 Sat Suct Temp Sensor	THERM 3.3VDC
1401		4	GND	Ground, RT51	GND
J40 I		1	RT50	Comp 3 Sat Suct Temp Sensor	THERM 3.3VDC
	GRY O 3	3	GND	Ground, RT50	GND

Table 9. P402 (Ultra Evaporators)

		P402 CAV#	LABEL	DESCRIPTION	ТҮРЕ
	40 _{GRY} 0 4	4	GND	Ground, RT55	GND
1402	30 RED-BLK 3	3	RT55	Comp 4 Suct Temp Sensor	THERM 3.3VDC
J402		2	GND	Ground, RT54	GND
		1	RT54	Comp 3 Suct Temp Sensor	THERM 3.3VDC

Table 10. P403 (Options)

ſ	6	0.0			DESCRIPTION	ТҮРЕ
		_{GRY} O 6	6	GND	Ground, ODF3	GND
	30 0	YEL O 3	3	0DF3	Outdoor Fan PWM4	PWM OUT 0-18V
	20 50	0.5	5	GND	Ground, ODF4	GND
J403	, \		2	0DF4	Outdoor Fan PWM5	PWM OUT 0-18V
	¹ o 40	YEL O 4	4	GND	Ground, PE_VFD	Ground, PE_VFD
		GRY O 1 RED-BLK	1	PE_VFD	Power Exhaust VFD Control	0-10VDC 0UT

Table 11. P404 (All Condensors)

		03	P404 CAV#	LABEL	DESCRIPTION	ТҮРЕ
		GRY 0 1	3	GND	Ground, RT52	GND
J404	2040	RED-BLK	1	RT52	Comp 3 Sat Liq Temp Sens	THERM 3.3VDC
2040		GRY 0 4	4	GND	Ground, RT53	GND
		RED-BLK	2	RT53	Comp 4 Sat Liq Temp Sens	THERM 3.3VDC

Table 12. P404 (Ultra Condensers)

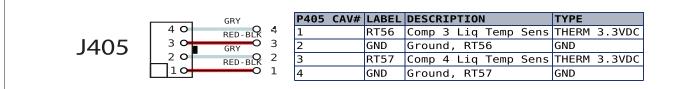


Table 13. P396 (Electric Heat)

