

Commercial Components Technical Bulletin

SUBJECT: Replacement of W7459Axxx and M7415Axxx with W7220A1000 (JADE) and M7215A1008	Ref. Number	
	Issue Date	03/15/12
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Suggested Model Number: W7459	Date Codes Affected: N/A	

Step by step guide to assist you in successful replacement of the W7459 economizer and M7415 black motor with a W7220 JADE economizer controller and M7215 black motor:

1. Remove all wires from the W7459. Mark each wire with the terminal designation (e.g., 1,2,3,4, TR1, TR etc.) as it is removed from the W7459.
2. Remove the M7415 and using the same mounting holes mount the M7215 motor in it's place.
3. Mount Jade on the inside of the Rooftop unit where it will be easy to read the display and to change the settings.
4. Wire JADE to M7215 using three new wires and ¼ in quick connects on motor end of wires:

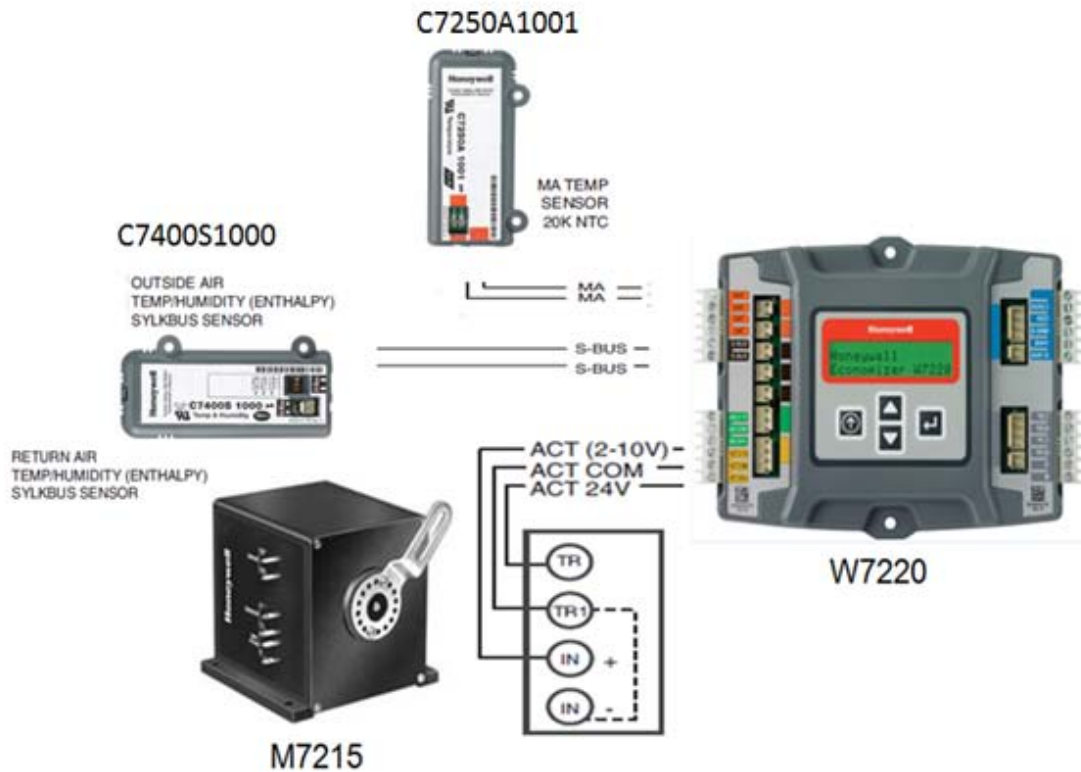
M7215 wire termination	W7220 Wire termination
TR	ACT 24V (hot)
TR1	ACT COM
IN (+)	ACT (2-10V)

5. Terminate wires removed from the W7459 to the Jade:

W7459 wire termination	W7220 wire termination
1	Y1-In
2	Y1-Out
3	Y2-In
4	Y2-Out
5	NA
TR	R
TR1	C
N	OCC
P-P1	NA
T-T1	MAT*
So-So+	OAT or S-Bus*
Sr-Sr+	S-Bus*

*Sensor to be changed

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Old Sensor	Description	New Sensor
C7046A	Discharge Air	C7400S1000
C7150B	Mixed Air	C7250A1001
C7400	Solid State Enthalpy	C7400S1000
C7660	Solid State Dry Bulb	C7250A1001

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W7459



W7220

There is no longer need for Minimum Position and Changeover Curve (A,B,C,D) potentiometers. The changeover curve boundaries and minimum position are set using the LCD display menu item "Setpoints" and the 4 buttons on JADE.

For programming Jade refer to the Installation Instructions (62-0331) supplied with the Jade.