

Commercial Components Technical Bulletin

SUBJECT: Replacement of W957G with W7220A1000 (JADE) and M7285A1045	Ref. Number	
	Issue Date	9/11/12
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Suggested Model Number: W957G	Date Codes Affected: N/A	

Step by step guide to assist you in successful replacement of the W957 economizer with a W7220 JADE economizer controller and M7285A1045 motor:

1. Remove all wires from the W957. Mark each wire with the terminal designation (e.g., 1,2,3,4, T0, T2 etc.) as it is removed from the W957.
2. Remove the W957 including motor and using the same mounting holes mount the M7285A1045 motor in its 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. Terminate wires removed from the W957 to the Jade:

W957G wire termination	W7220 wire termination
1	Y1-In
2	Y1-Out
3	Y2-In
4	Y2-Out
T0 = power hot	R (use system transformer)
T2 = power common	C (use system transformer)
S1 and S2	MAT*
SR and +	RAT (S-Bus)
++ and So	OAT or S-Bus*
Z and Y	Not needed on Jade
P1 = enthalpy curve set	Use menu, LCD and buttons to set
P2 = temperature range set	Not needed on Jade
P3 = Calibration pot	Not needed on Jade
P4 = throttling range pot	Not needed on Jade
P5 = Minimum position pot	Use menu, LCD and buttons to set
R	ACT COM
W	ACT (2-10V)
B	Not terminated to W7220

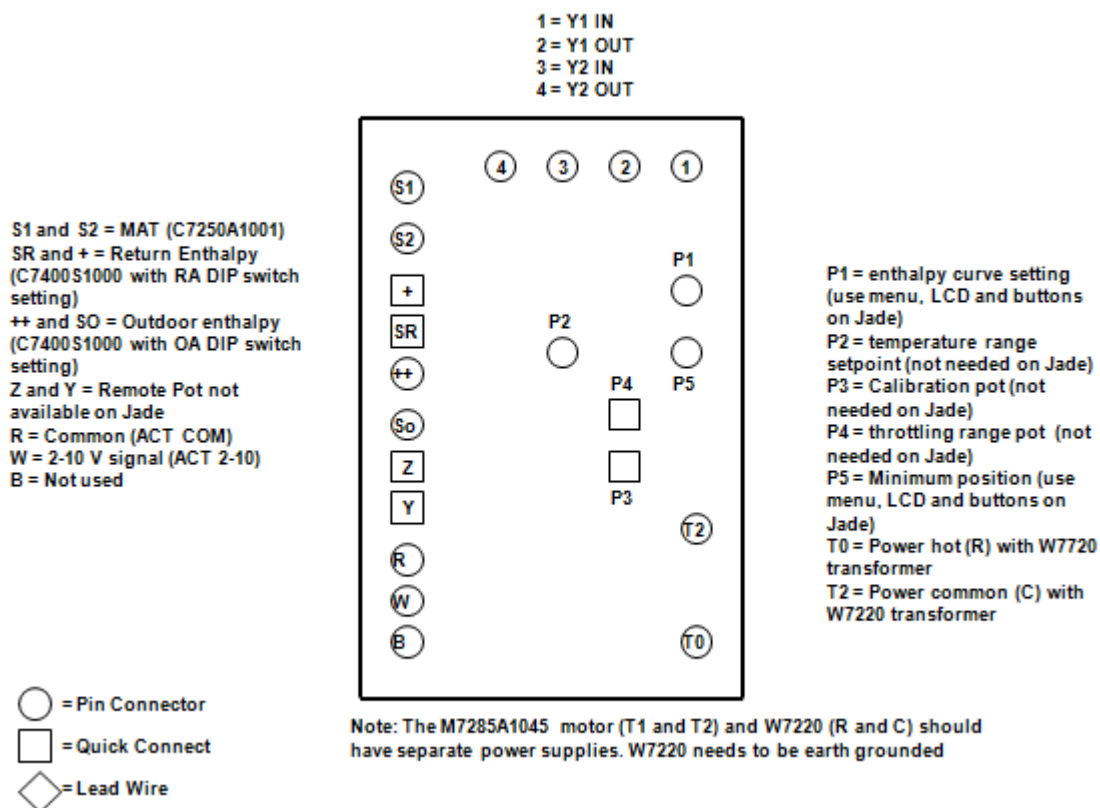
*Sensor to be changed

5. Add a two stage commercial programmable thermostat.

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6. Use separate transformers for the motor and for W7220. Add earth ground to the W7220 Jade controller.

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



W957G Replaced with W7220 and M7285A1045 Mod Motor

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.