## HMelocity

Small Duct High Velocity Heating, Cooling and Home Comfort Systems

## Module HE-B-52-WEG

## HE-B-52 Electrical Box c/w WEG Variable Speed Drive Installation



For the Installation of:

Part Name Description $\quad$ Part Number $\quad$\begin{tabular}{|l|l|l|}

\hline | HE-B-52 Electrical Box w/ |
| :--- |
| 110v WEG Controller | \& | Upgrade for HE-52 Air Handlers |
| :--- |
| $(\mathbf{1 1 0 v}$ power) | \& | WEG Non-Zoning Controller, HEB Circuit Board, |
| :--- |
| Transformer in Galvanized Box | <br>

\hline
\end{tabular}



## HE to HE-B-52 Air Handler Control Box Upgrade Installation

IMPORTANT - Before you begin, ensure input voltage of WEG Controller matches line input voltage to air handler.


Fig. 1-52 Series Air Handler

1. Turn off power to the air handler, and allow 5 minutes for power stored in capacitors to dissipate. Remove large access door from air handler. (Fig. 1)
2. Unplug all thermostat and power wired connections from air handler, in order to remove motor/blower module. (Figs. 2a, 2b)


Fig. $2 a$


Fig. 3

Fig. $4 a$



Fig. 5a


Fig. $2 b$


Fig. $4 b$

Fig. 5b

5. Unplug motor plug from control board. Remove motor ground wire (green/yellow) from the bolt connecting it to the controls plate. (Figs. 5a, 5b)
4. Remove motor/blower module from air handler by sliding it out. (Figs. 4a, 4b)
3. Unbolt the two blower housing bolts from the air handlers center plate, using a $7 / 16^{\prime \prime}$ wrench. (Fig. 3)

## HE to HE-B-52 Air Handler Control Box Upgrade Installation

6. Unscrew the four $1 / 4^{\prime \prime}$ screws connecting the control plate to the blower. (Figs. 6a, 6b)


Fig. $6 a$
7. Using the provided nut and bolt, connect motor ground wire to the provided ground wire extension. (Figs. 7a, 7b)


Fig. $6 b$


Fig. $7 a$


Fig. $7 b$


Fig. 8
9. After all controls have been removed off of the blower housing, slide the blower/motor module back into the air handler casing. (Figs. 9a, 9b)


Fig. 9a


Fig. $9 b$
10. Replace the two blower bolts securing the blower housing to the center plate using a $7 / 16^{\prime \prime}$ wrench. (Figs. 10)


Fig. 10


Fig. 11a


Fig. 11b


Fig. 11c

## HE to HE-B-52 Air Handler Control Box Upgrade Installation

12. Now that the motor plug is connected, the control box can be mounted in place of the large access door. (Figs. 12a, 12b)


Fig. 13a


Fig. $12 b$

Fig. 13c
14. Double check that all wiring is done correctly according to wiring diagram. Turn power back on and refer to wiring diagram or to page 30 of the HE-B Install Manual for instructions on how to set fan speed/ airflows. (Fig. 14)
15. After all fan speed/airflows have been set, the provided coverplate can be screwed on with provided screws to cover the controls section of box. (Figs. 15a, 15b)



Fig. 14
16. With the cover plate secured, stick the provided wiring diagram sticker to the cover plate for future reference.

## HEB Circuit Board/CFW300 WEG Wiring Diagram

PLEASE NOTE: CFW10 has slightly different appearance, terminals and wiring are the same.


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