

SUPPLEMENTAL INSTRUCTIONS

WMRSC3B-* Sound Curb

The WMRSC3B-* is an accessory item used to retrofit the wall-mount units listed in Table 1 to the standard 3-ton wall-mount opening (WA30/36 Series, 30/36WA Series, 30/36WH Series or WH30/36 Series product) and is intended to lower the building's interior sound level. This is accomplished by using the following principals:

- The first is accomplished by isolating the vibrations created by the mechanical devices of the wall-mount operation using rubber isolation mounts to prevent the energy from transferring into the wall of the structure that it is mounted on. (This will be more beneficial on wood or steel frame structures in eliminating the drumming effect of the wall than on masonry structures.)
- The second is that the WMRSC3B-* creates an indirect return air path and has additional sound attenuation material to lower sound transmission into the structure through the return air opening.

The offset return will require different supply-to-return spacing for the applied structure than specified by the wall-mounted unit.

There are two methods of installation available to attach the wall curb assembly to the wall structure.

Method #1 uses the mounting hole center line for the 30/36WAWH and WAWH30/36 wall-mount units (see Figures 1 and 2 on pages 2 and 3). This method is preferred due to no curb disassembly requirements.

Method #2 uses the mounting hole centerline for the replacement wall-mount unit (see Figures 1 and 2). This method requires separation of the inner and outer curb to access wall mounting hole pattern.

For information on the entire selection of Bard wall curbs available, see F1984 Curb Matrix at www.bardhvac.com.

* Denotes Color
 X = Beige
 4 = Buckeye Gray
 5 = Desert Brown
 8 = Dark Bronze

**Table 1
 WMRSC3-* Applications**

Bard Model	Non-Ducted Applications	Approved for Ducted Applications	Required Blower Speed	Duct Design Maximum ESP ("WC)
C36H, C42H*	Yes	Yes	Self-Regulating	0.50"
T36H, T42H T36S, T42S	Yes	Yes	Self-Regulating	0.50"

* With CRV or ERV option. Not used with economizer option.

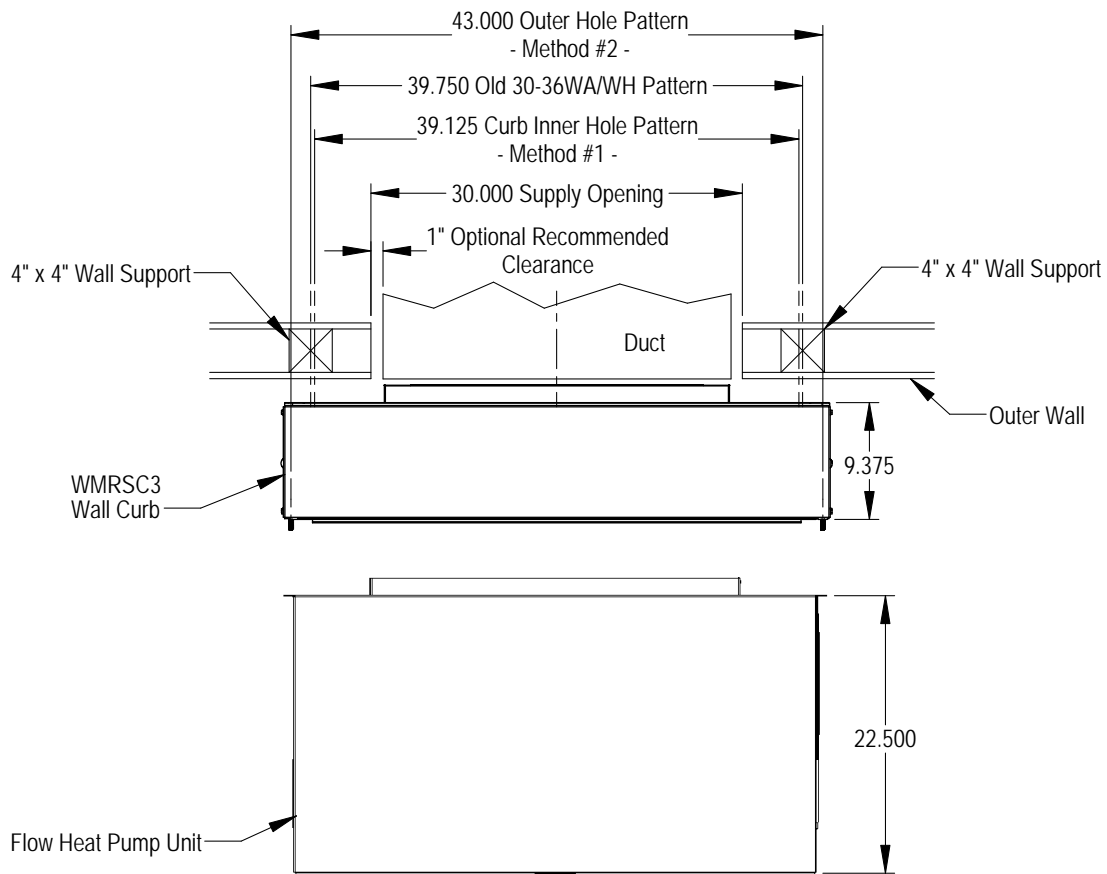


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FIGURE 1

Top Wall Section

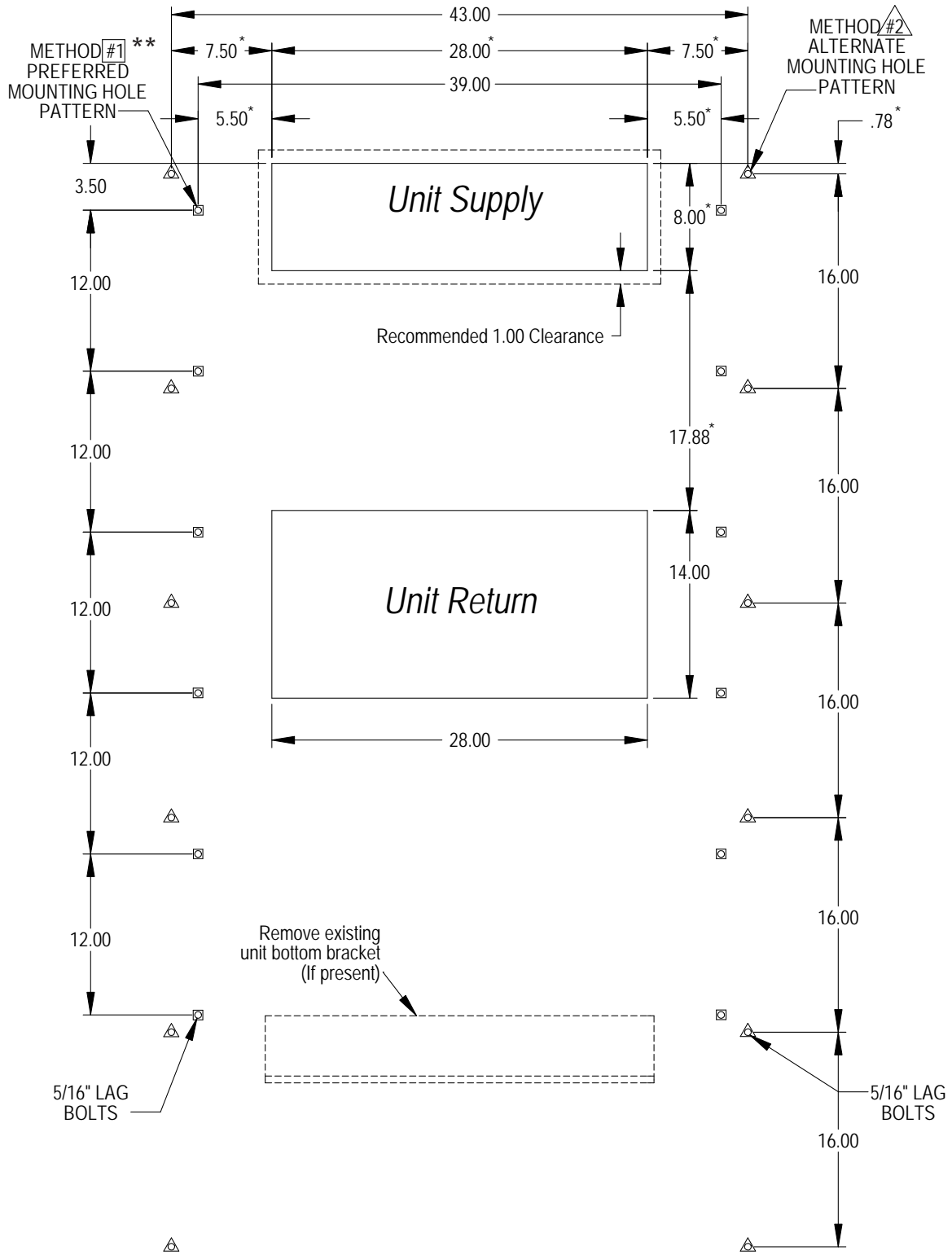


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NOTE 1 The 36WA/WH (older) wall mount units have a wall mounting bolt pattern on a 39.750" centerline. The W36A/W36H (newer) wall mount units have a wall mounting bolt pattern on a 39.125" centerline. The wall curb will use the same bolt pattern as the W36A/W36H wall mount unit and the same centerline of 39.125".

NOTE 2 Method 1 requires a field-supplied .50" x 3.750" x 84" spacer strip (plywood normally used) between back of curb and wall. Failure to do so may distort back when Method 1 is used.

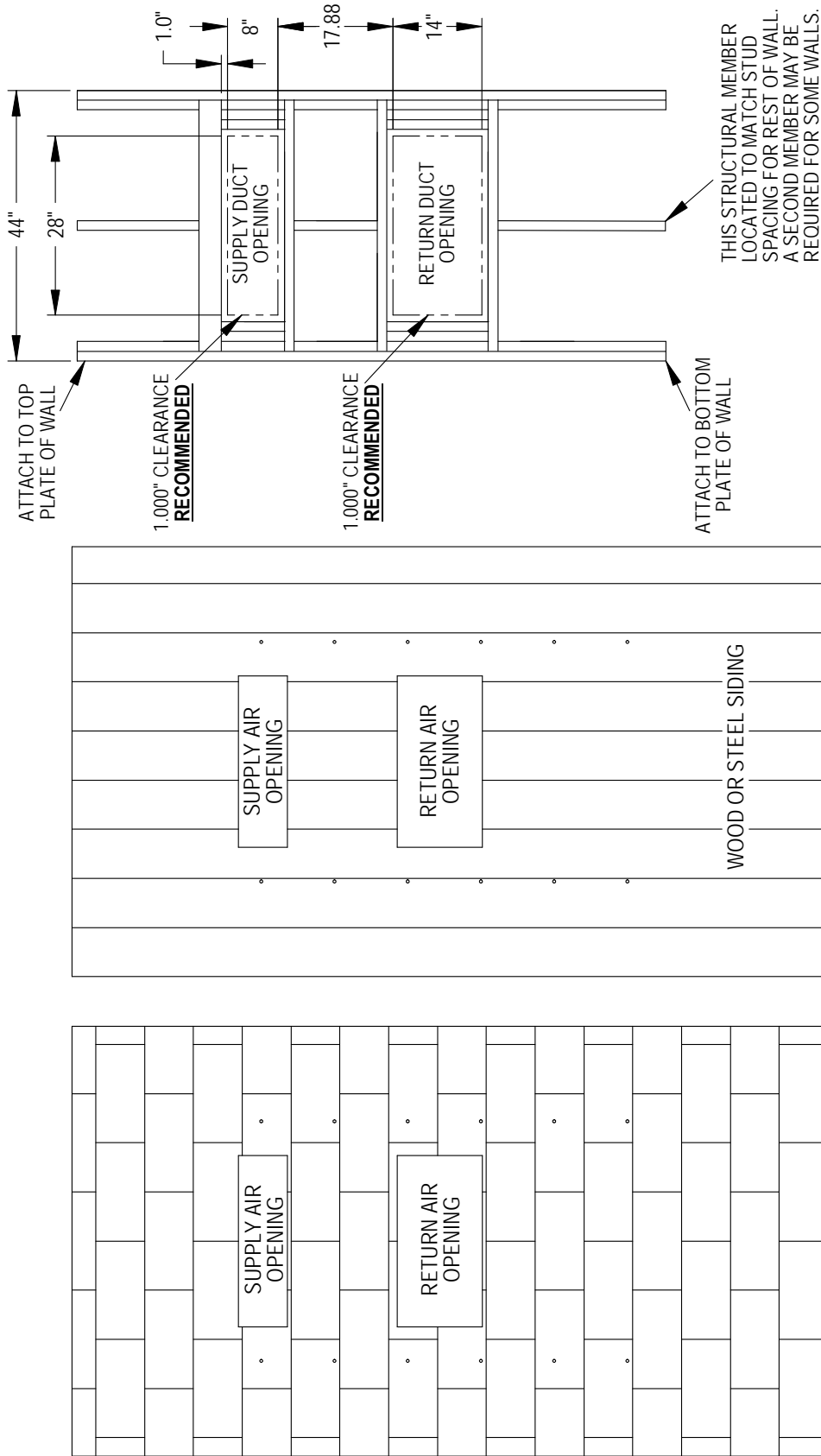
FIGURE 2



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* Dimensions represent 0" supply clearance
 ** See spacer strip note (NOTE 2) on page 2

FIGURE 3



Preferred Installation – Method #1: Using Inner Hole Pattern

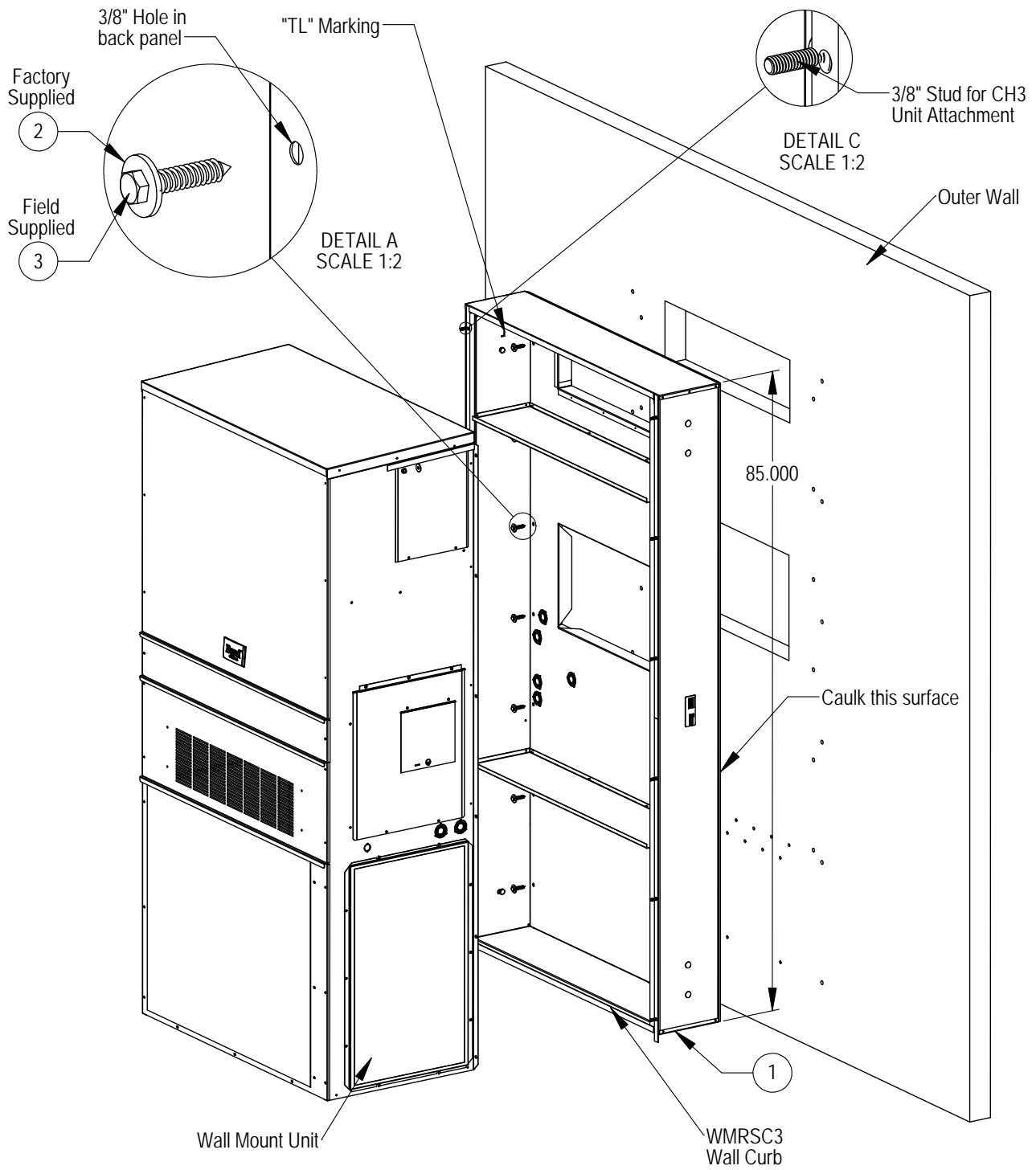
Adding to Existing Installation

1. Disconnect the electrical entrance and thermostat wires.
2. Disconnect the duct work as required.
3. Supporting the unit, remove the mechanical fasteners retaining the wall mount unit to the structure, then lower the unit and move it off to the side.
4. Remove and discard bottom mounting bracket for wall mount.
5. Frame wall structure in accordance with these instructions (see Figures 1, 2 and 3).
6. Uncarton WMRSC3B-* assembly.
7. On the inner curb section, locate the side stamped “TL” indicating Top Left (see Figure 4 on page 6).
8. Fasten spacer strip to wall (see **NOTE 2** on page 2).
9. On the rear of the attachment flange, apply a liberal amount of silicone caulk to weather seal the inner curb frame to the structure (see Figure 4).
10. Place curb onto structure aligning (centering) the supply and return air openings, driving fasteners ③ (field supplied) with washers ② (supplied in carton) into framework. If adding to existing installation, these holes will line up with fasteners removed from previous installation (See Figure 4).
11. Lift the unit and align side bolt flanges with studs in the outer curb assembly ①. Using nuts ④ and washers ② supplied in carton with WMRSC3B-*, attach the unit to the curb assembly (see Figure 4).
12. Apply a liberal amount of caulk across the seam between the unit top and the top of the curb. Apply caulk also between the inner curb frame and the rear seal of the outer curb frame all the way across the top and 2" down each side (see Figure 4 on page 6 and Figure 5 on page 7).
13. Connect electrical entrance and thermostat wires to the unit making sure that they are a flexible conduit (liquid tight). *The use of rigid conduit is not recommended as it could cancel the effects of the vibration isolators inclusive with this accessory.*
14. Connect duct work per standard practice.

NOTE: Refer to Table 1 on page 1 for maximum allowable static and duct usage.

①②③④ refer to Figure 4 diagram balloon reference numbers (page 6)

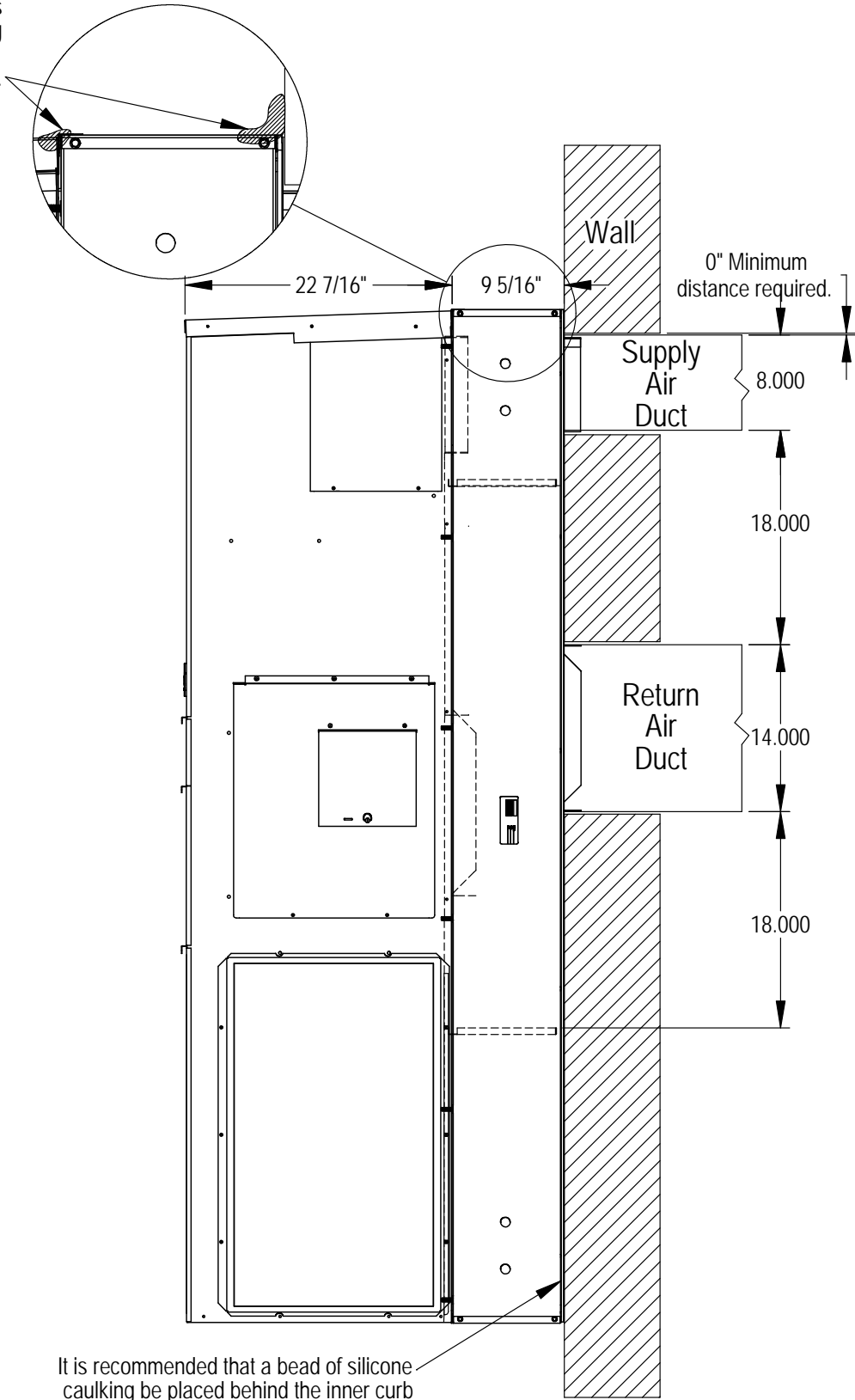
FIGURE 4



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FIGURE 5

Seal with (2) beads of caulking along entire length of top and 2" down sides.



It is recommended that a bead of silicone caulking be placed behind the inner curb mounting flanges at time of installation.

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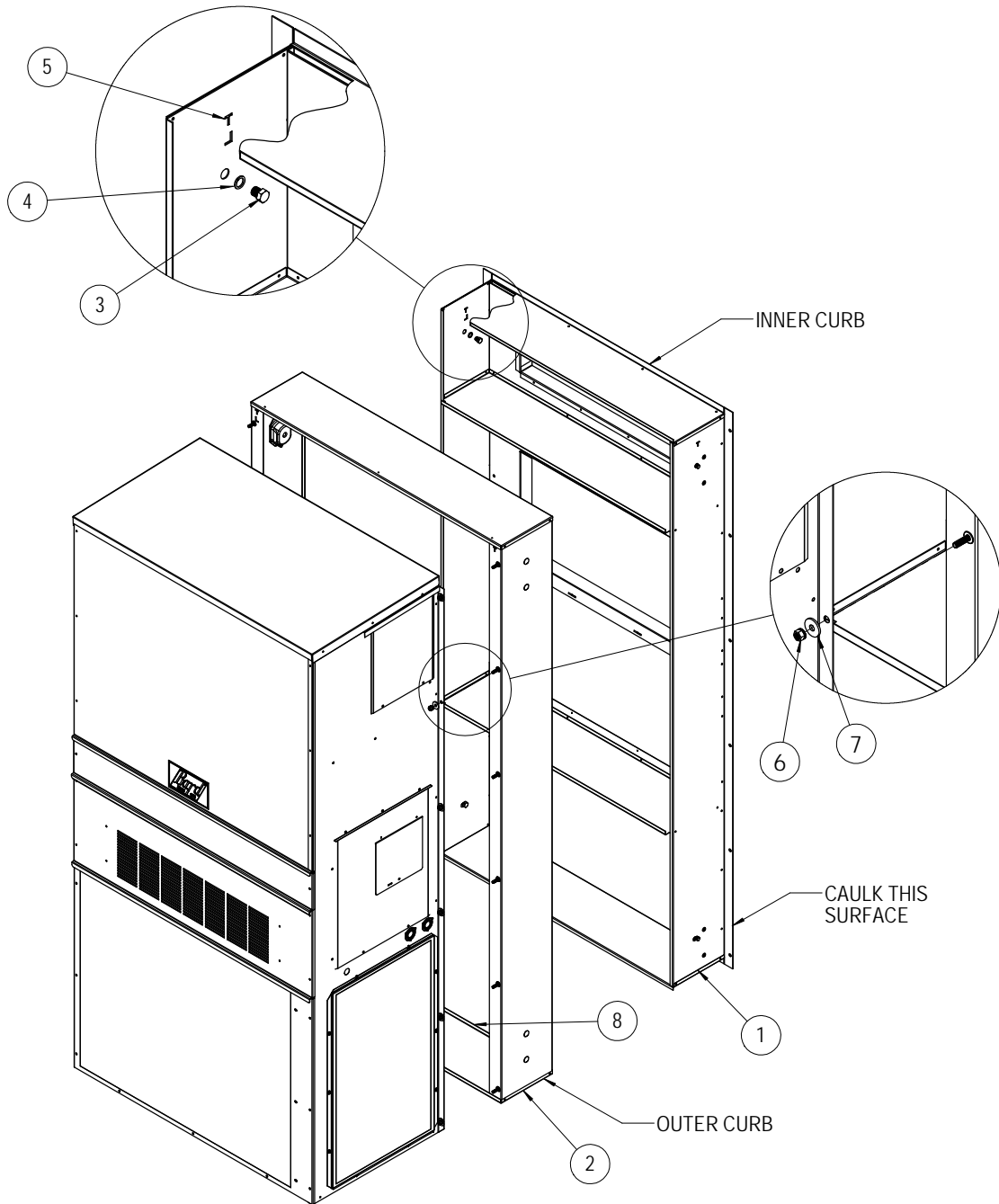
Alternate Installation – Method #2: Using Outer Hole Pattern

Adding to Existing Installation

1. Disconnect the electrical entrance and thermostat wires.
2. Disconnect the duct work as required.
3. Supporting the unit, remove the mechanical fasteners retaining the wall mount unit to the structure, then lower the unit and move it off to the side.
4. Remove and discard bottom mounting bracket for wall mount.
5. Frame wall structure in accordance with these instructions (see Figures 1, 2 and 3).
6. Uncarton WMRSC3B-* assembly.
7. Separate inner^① and outer^② curb sections by removing four (4) 12MM bolts^③ and lock washers^④ from the inner curb sides (see Figure 6).
8. On the inner curb section, locate the side stamped “TL” indicating Top Left (see ^⑤ on Figure 6).
9. On the rear of the attachment flange, apply a liberal amount of silicone caulk to weather seal the inner curb frame to the structure.
10. Place inner curb section onto structure, aligning (centering) the supply and return air openings, and drive fasteners into frame work. If adding to existing installation, these holes will line up with fasteners removed from previous installation.
11. Take outer curb assembly and locate the seam in the flex seal. Orient this seam so that it is on the bottom^⑧, setting the outer curb over the inner curb (see Figure 6).
12. Using the four (4) 12MM bolts^③ and lock washers^④ removed in Step #3, reattach the outer^② curb to the inner curb^① (see Figure 6).
NOTE: Use a clamp or pliers to compress the rear gasket at the top of the curb to align the bolt holes. It is necessary for this seal to be under compression so that when the wall mount is installed, adequate weather sealing is maintained.
13. Lift the unit and align side bolt flanges with studs in the outer curb assembly. Using nuts^⑥ and washers^⑦ supplied in carton with WMRSC3B-*, attach the unit to the curb assembly (see Figure 6).
14. Apply a liberal amount of caulk across the seam between the unit top and the top of the curb. Apply caulk also between the inner curb frame and the rear seal of the outer curb frame all the way across the top and 2" down each side (see Figures 5 and 6).
15. Connect electrical entrance and thermostat wires to the unit making sure that they are a flexible conduit (liquid tite). *The use of rigid conduit is not recommended as it could cancel the effects of the vibration isolators inclusive with this accessory.*
16. Connect duct work per standard practice.
NOTE: Refer to Table 1 on page 1 for maximum allowable static and duct usage.

①②③④⑤⑥⑦⑧ refer to Figure 6 diagram balloon reference numbers

FIGURE 6



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