

Installation Instructions

VERTICAL EXHAUST DUCT with CPI Passive Cooling[®]

Safety Information



WARNING: Be sure to use sufficient personnel to safely assemble and install the exhaust duct.

Intended Use

Use indoors only, in environmentally controlled areas. Do not use outdoors, in harsh environments or in air-handling spaces.

Tools Required

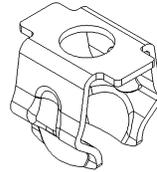
#2 Phillips screw driver
10mm Socket Wrench

Installation Notes

The Vertical Exhaust Duct (VED) is available for 23.6" (600 mm), 27.6" (700 mm), and 31.5" (800 mm) wide cabinets with frame depths of 41.3" (1050 mm) up to 47.2" (1200 mm). The VED must be used with side panels, a solid rear door with a perimeter seal and a bottom panel. For best results, include an Air Dam, P/N 39085 or 39130), Snap-In Filler Panels, P/N 34537 or 34538, and an Air Director, P/N 39107, to fully isolate return air from the source air, thus eliminating any possible hot air recirculation in the data center.

Included Hardware for Exhaust Duct

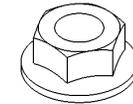
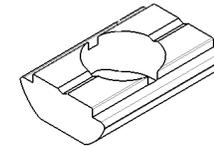
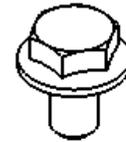
2 each 6 mm Cage Nut	2 each 6mm x 12mm Screw	4 each 5mm x 16mm Screw	4 each 5mm x 8mm Screw
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4 each
6mm x 10mm
Hex bolt

4 each
6mm
T nut

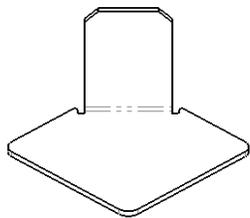
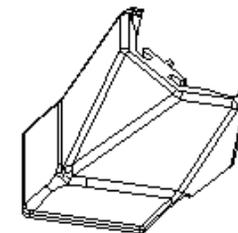
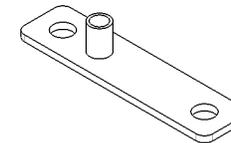
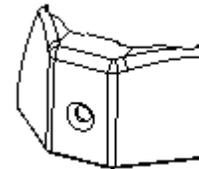
2 each
6mm
Nut



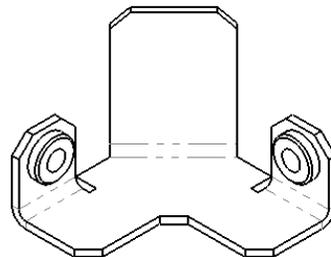
4 each
Corner lock

4 each
Corner lock plate

4 each
Seal cap



4 each
Filler Bracket



2 each
Extension stop bracket



CHATSWORTH PRODUCTS, INC.

IIS-739177, 06/16/14, Rev. 2, CPI/BDK

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Exhaust Duct Assembly Sequence

1. Expand the lower duct and place on the floor as shown, with bent flange: down (Fig. 1).
2. Expand the Upper duct and orient as shown (Fig. 1).
3. Slide the Upper duct over the Lower duct and push down (Fig. 1 & 2).
4. Attach stopper bracket as shown at two opposite corner by using two M5 X 8mm Screw (Fig. 2).

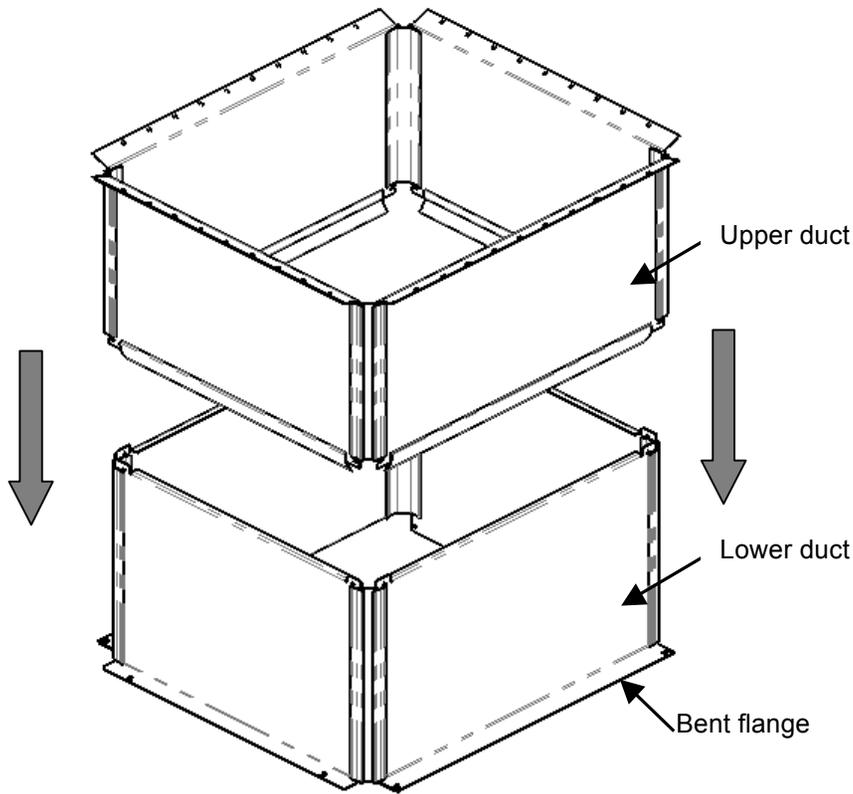


Fig. 1

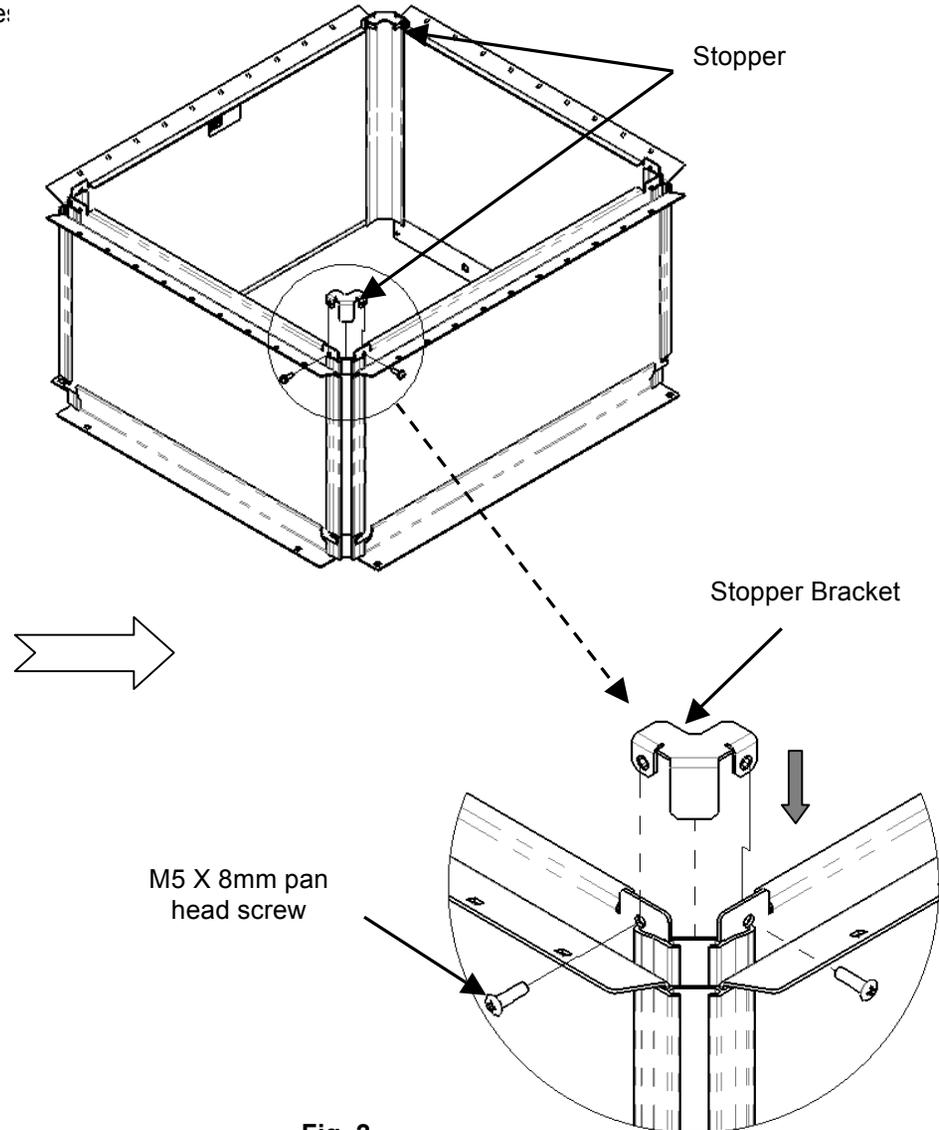


Fig. 2

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This sheet is applicable only for VED Assembly with Brush.

5. Position brush assembly with its guide pins onto the knockout opening using alignment holes (Fig. 3).
6. Push brush assembly onto opening until it snaps into place (Fig. 4 shows brush in completely assembled duct).

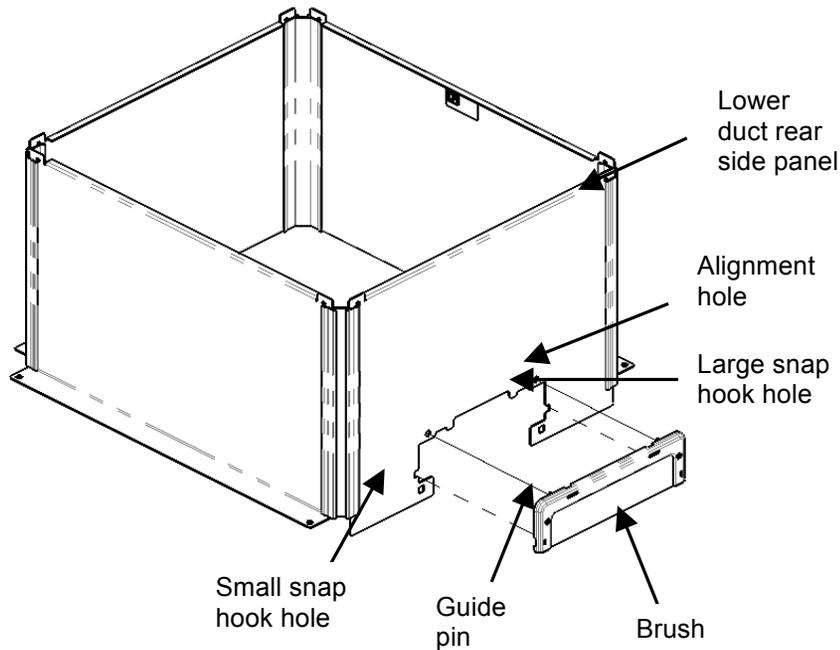


Fig. 3

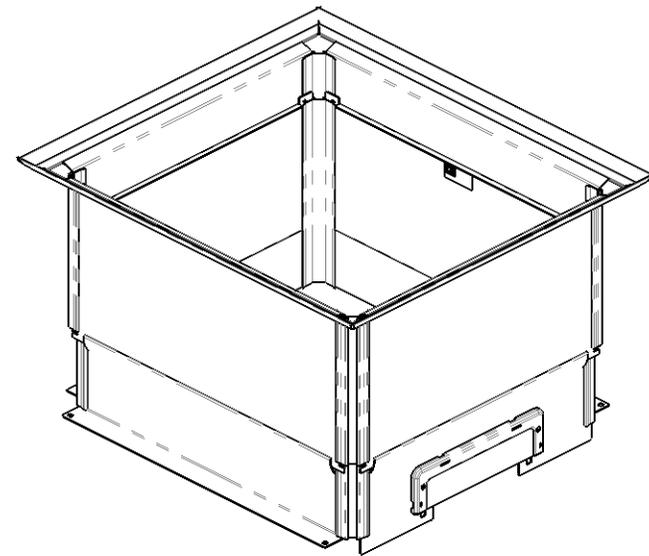
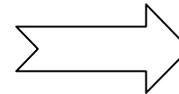


Fig. 4
Final VED Assembly with Brush.

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7. Turn the duct over (upside down) so that the mounting flanges on the lower duct face the top. Slide the Seal Caps onto the 4 corners of the outer duct in the orientation shown. Position the caps about mid-way down (Fig. 5).

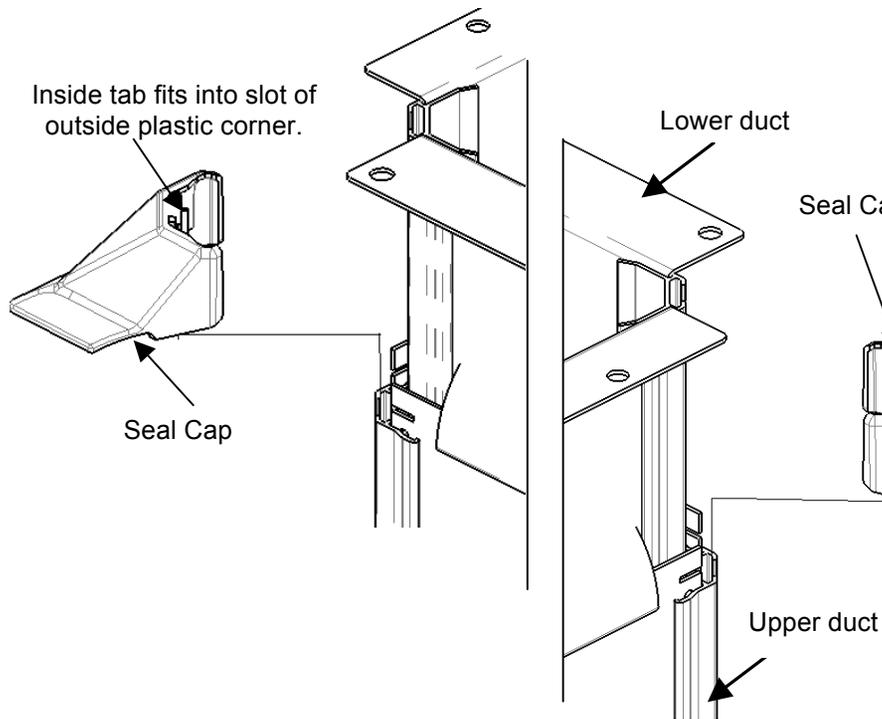


Fig. 5

8. Slide the Corner Lock Plate into the slot of the inner duct (Fig. 6).
9. Line up the ribs of the Plastic Lock with the slots in the outer duct (Fig. 6)
10. Fasten the Corner Lock Plate and Plastic Lock with the screw shown and tighten securely (Fig. 6)

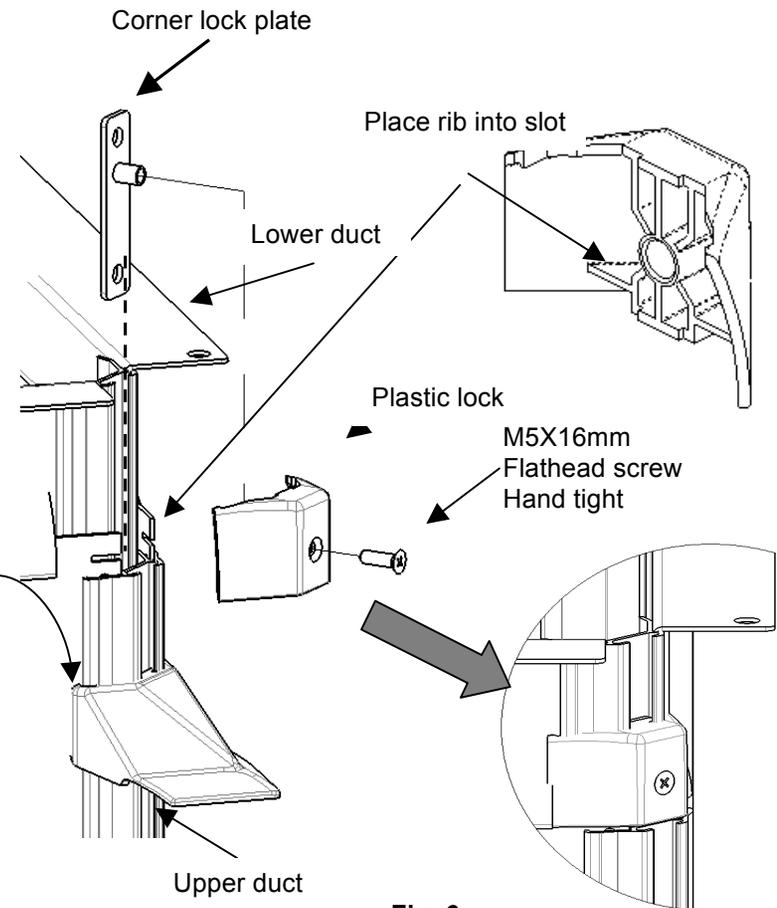


Fig. 6

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11. Turn over the VED assembly. (Fig. 7)

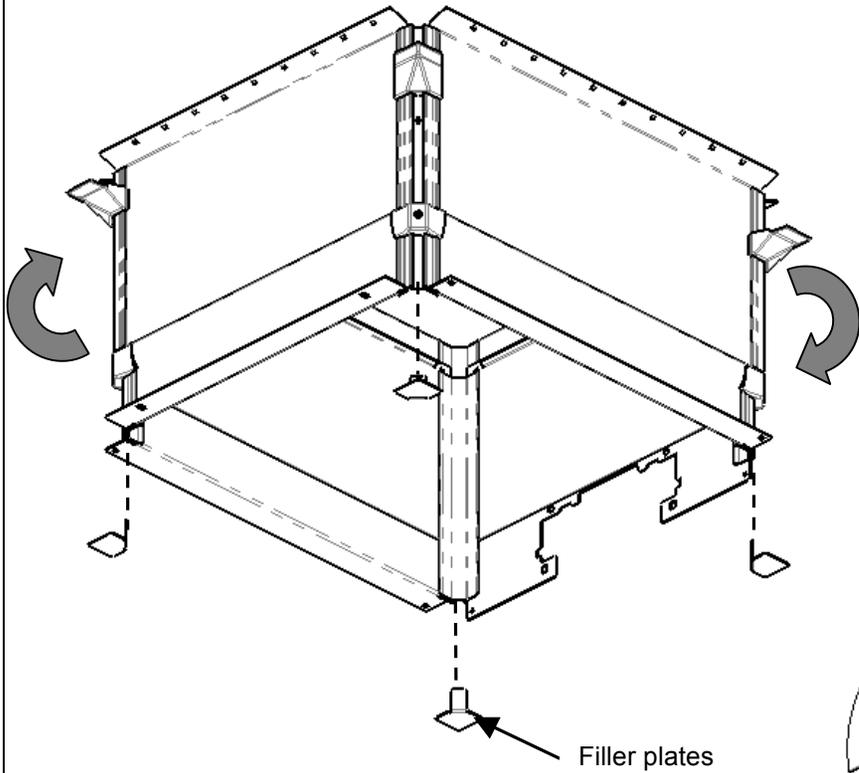


Fig. 7

12. Push the sealing strips onto the outer duct flange (fig. 8).
13. Slide the four seal caps up against the sealing strips (Fig. 9).
14. Slide the filler plates onto the four corners of lower duct (Fig. 7&10).

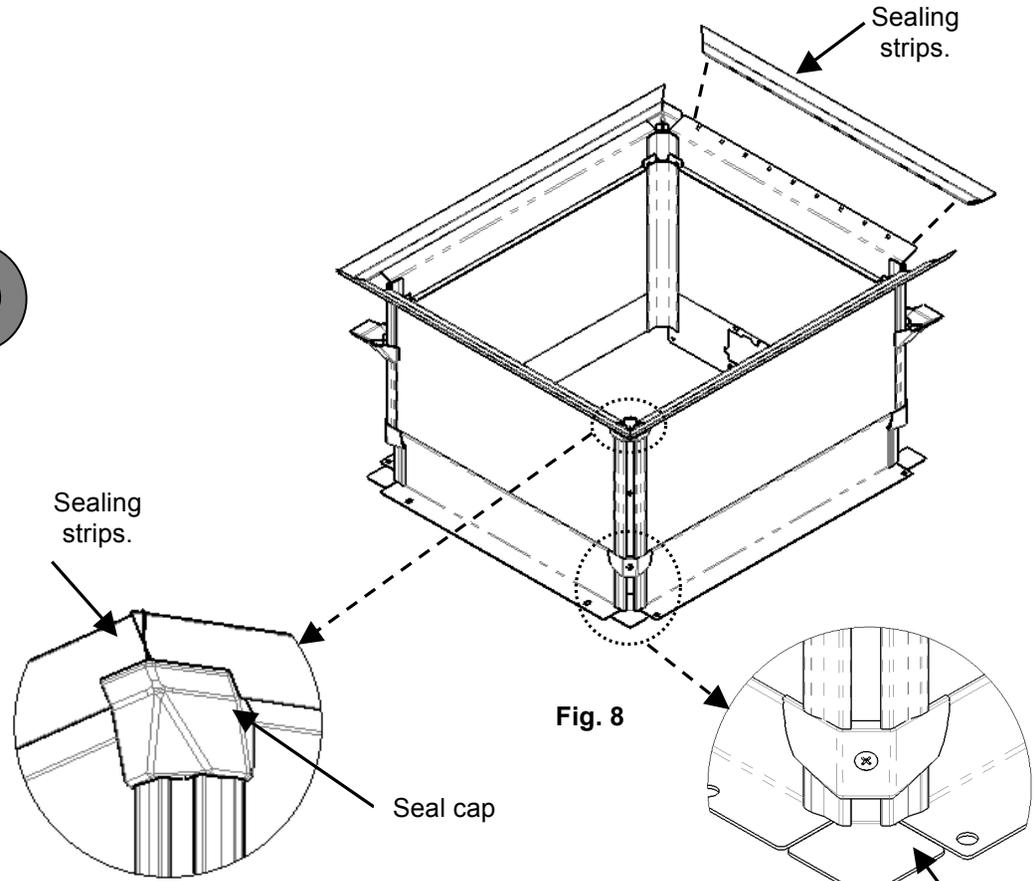


Fig. 9

Fig. 8

Fig. 10

Filler plates

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15. Remove 3/8" plugs from Front Top Panel and install 6mm cage nuts (Fig. 11).
16. Install four 6mm T-nuts in the top slots of the side frame members (see Fig. 12).
17. Place the VED assembly on top of the cabinet and loosely install the fasteners as shown according to the cabinet type (Fig. 11 and 13).



CAUTION: USE TWO PEOPLE FOR THIS OPERATION. DO NOT CLIMB A LADDER OR STEPS WHILE CARRYING THE VED ASSEMBLY

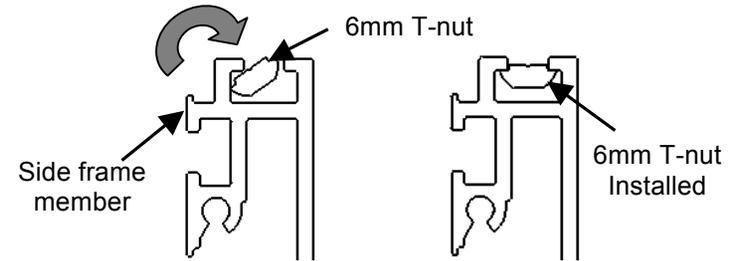
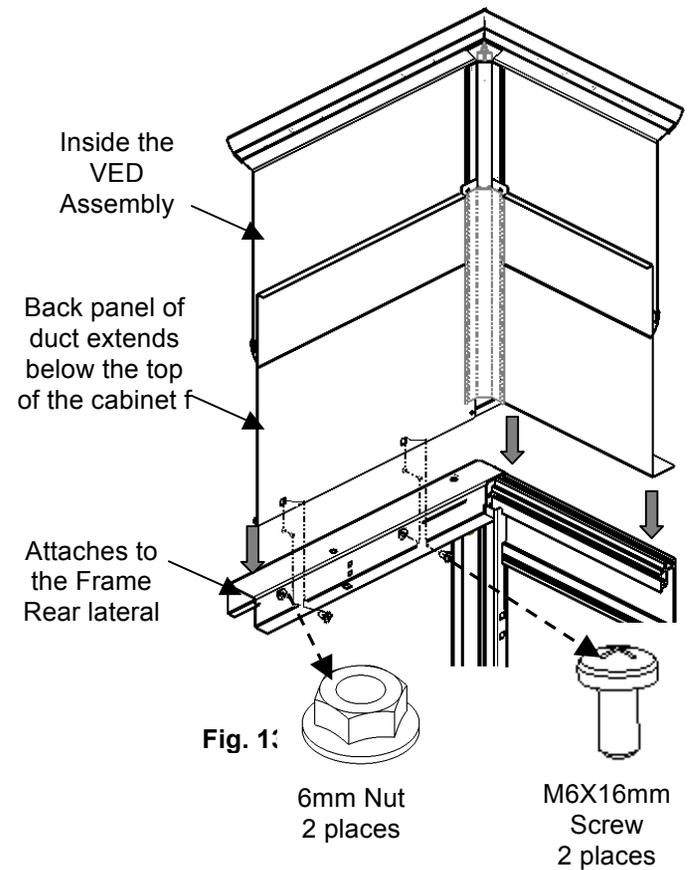
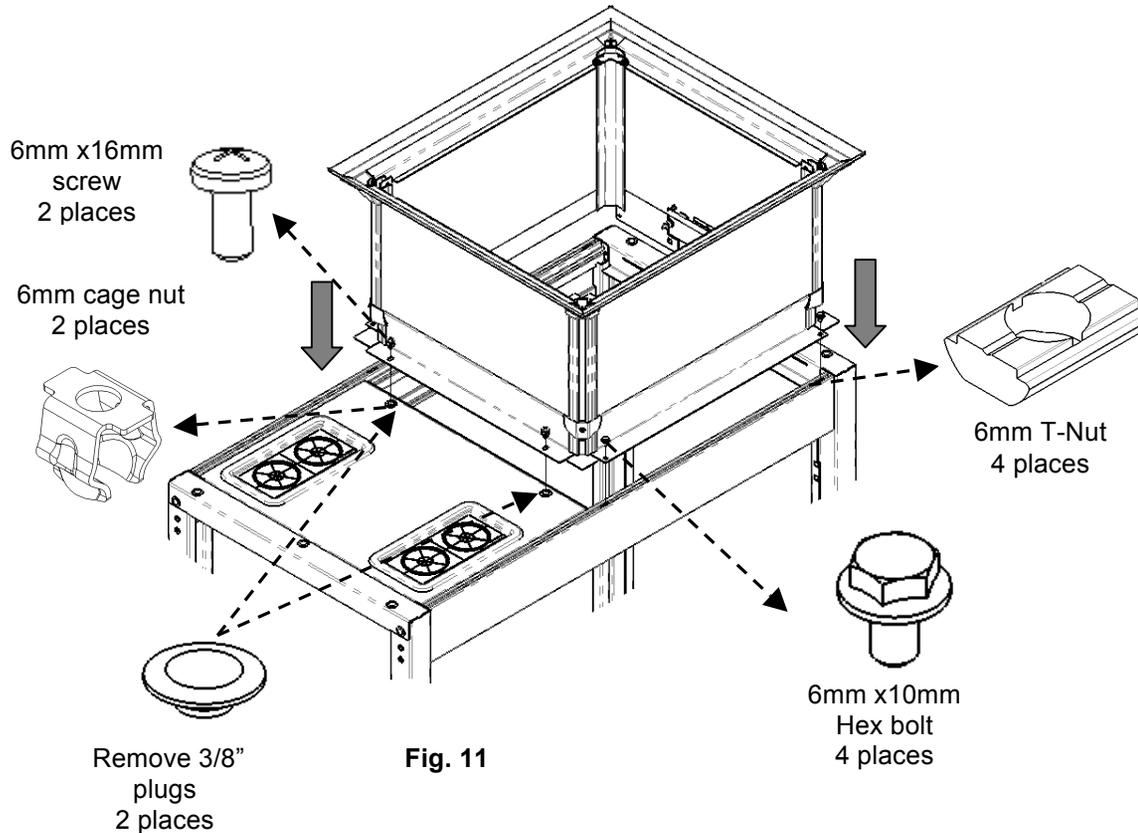


Fig. 12
6mm T-nut Installation



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18. To adjust duct height, loosen the 4 screws in the plastic corner locks (Fig. 14).
19. Raise the outer duct until the plastic seals at the top are pressed firmly against the ceiling (Fig. 15).
20. Securely tighten the 4 screws in the plastic corner locks (Fig. 15).

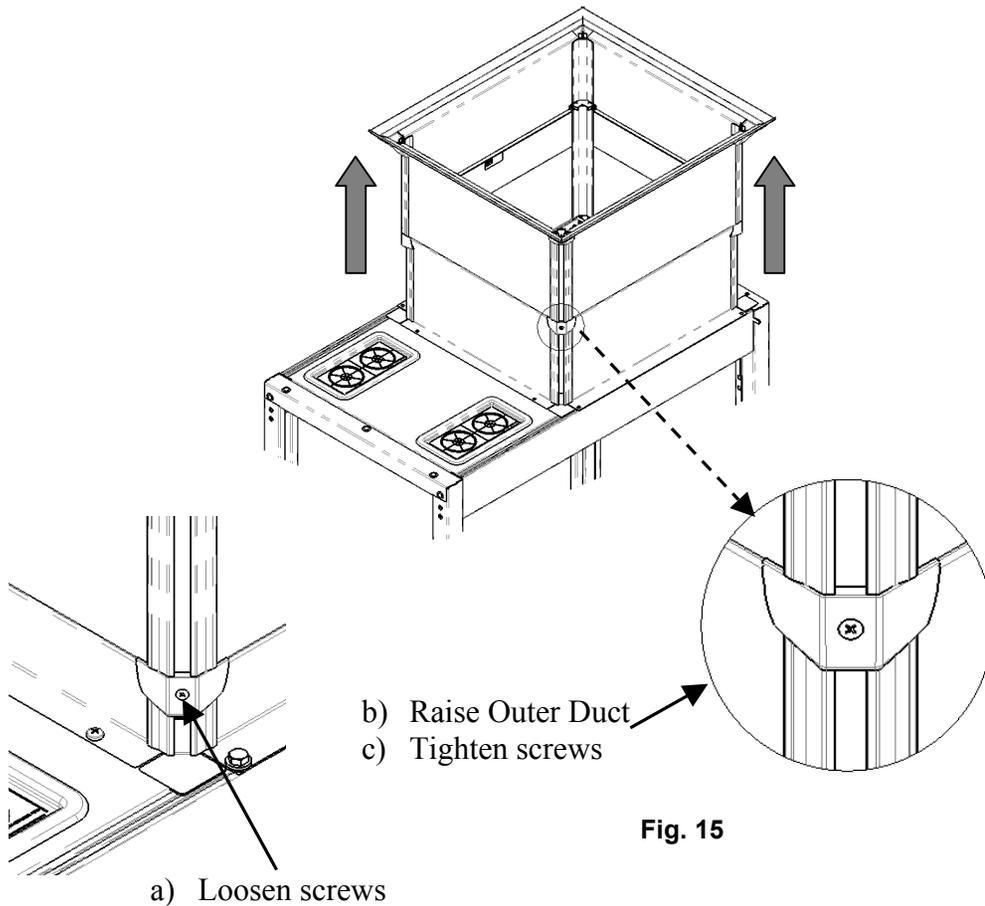


Fig. 14

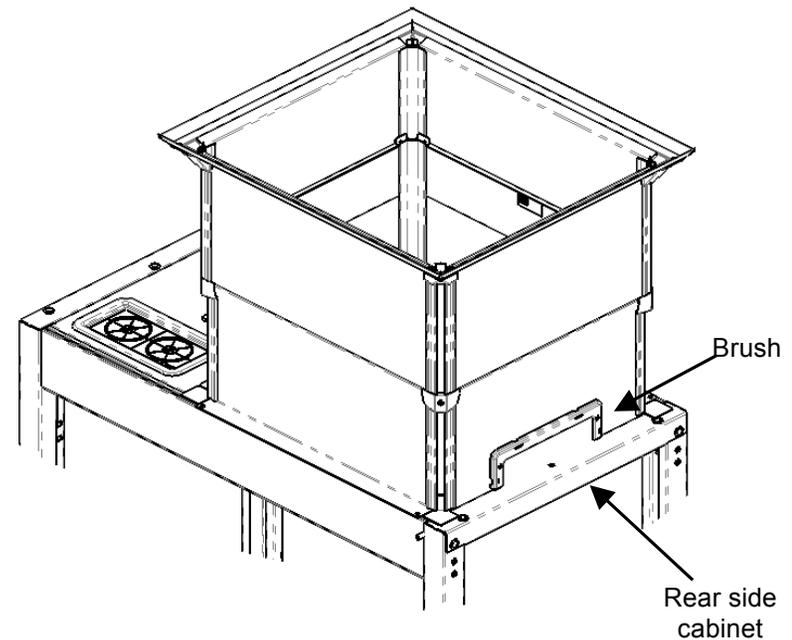


Fig. 16
VED Assembly with Brush