



INSTALLING WINDOW IN HINGED ENTRANCE DOOR

REMOVE DOOR

1. Cut off power to light junction box and disconnect any crossover cords to door cap.
2. Slide door cap up and off of hinge pins and place on a suitable working surface exterior side up.

CUT AND PREPARE OPENING - See Figures 1, 2, 3 and 4.

3. Mark size of required cutout for window on exterior door metal as shown.
4. Cut through exterior metal and through insulation. Do not allow saw to contact interior metal
5. Turn door over so interior of door is facing up.
6. Cut through Interior metal and remainder of insulation for window and interior metal for transformer box as shown.
7. Cut back insulation from opening edge and for transformer box.
 - a. $\frac{3}{4}$ " deep along sides and bottom edge
 - b. $2\frac{1}{4}$ " deep along top edge
 - c. $3\text{-}3/8$ " deep under cutout for transformer

Note: If insulation is cut back more than required for any of the opening sides, it must be filled with fiberglass insulation as shown.

8. Caulk where insulation meets interior and exterior metal as shown.

INSTALLING TRANSFORMER BOX - See Figure 5

9. Install (004305) transformer box using the following steps
 - A. Remove foam between opening and transformer box cutout so that the box can be positioned behind the interior skin.
 - B. Place box and fill in previously removed foam with scrap foam. Ensure a passage for the electrical leads that will feed into the 1" dia. hole located on side of box.

INSTALLING $\frac{3}{4}$ " WOD FRAME - See Figure 5.

10. Install $\frac{3}{4}$ " side wood frame pieces using the following steps:
 - A. Place (005745) side wood frame piece into the left side opening cutout when facing interior. Frame piece should fit flush with opening edge. Next place (005761) side frame piece into right side opening cutout with the hole offset towards exterior of door cap. Make sure that the side frame pieces are plumb and that the distance between the frame pieces are exactly $15\frac{3}{4}$ ".
 - B. When side wood frame pieces are positioned, secure using (017376) #6 nails Nails should be located $\frac{1}{4}$ " from edge of opening on 5" centers, centered within frame piece length. Important: If wood does not fit between interior and exterior metal do not force it as this will break the metal loose from the insulation and weaken the door.
11. Install $\frac{3}{4}$ " top and bottom wood frame pieces using the following steps.
 - A. Caulk ends of 1 (005746) wood frame piece and place into bottom opening cutout, frame piece should fit flush with opening edge. Ensure bottom piece is square at both ends with side pieces.

- B. When bottom wood piece is positioned, secure using (017376) #6 nails. Nails should be located ¼" from edge of opening on 5" centers.
- C. Caulk ends of 1 (005746) wood frame piece and place into top opening cutout, piece should fit up into recess There should be 1½" from frame piece to opening edge. Ensure top piece is square at both ends with side pieces.
- D. When top piece is positioned, secure using (017376) #6 nails. Nails should be located 1¾" from edge of opening on 6" centers. See Figure 6.

INSTALLING EXTERIOR WOOD FRAMING - See Figure 6

12. Turn door over again so exterior of door is facing up.
13. Drill 3, 7/64" thru holes in (005748) side wood pieces along 1¼" width. Holes should have 6" centers, centered within wood piece length.
14. Drill 2, 7/64" thru holes in (005747) bottom wood piece along 1¼" width. Holes should have 6" centers, centered with in wood piece length.
15. Drill 2, 9/64" thru holes in (005749) top wood piece along 1¼" width. Holes should have 6" centers, centered within wood piece length.
16. Apply (016344) sponge rubber to ½" thick edge of (005748) side wood pieces and (005747) bottom wood piece. The (005749) top wood piece will need 3 rows to cover 1½" thick edge.
17. Caulk mating surface of (005748) side wood pieces and install with 3 (016399) #6-1 wood screw. Position the wood pieces 1/16" from edge of opening, facing interior of door cap.
18. Caulk mating surface of (005747) bottom wood piece and install with 2 (016399) #6-1 wood screws. Position the wood pieces 1/16" from edge of opening, facing interior of door cap.
19. Caulk mating surface of (005749) top wood piece and install with 2 (016402) #8- 2¼ wood screws. Position the wood pieces 1/16" from edge of opening, facing interior of door cap.

INSTALLING SPONGE RUBBER TRIM SEAL - See Figure 7

20. Apply 2 rows of (016344) sponge rubber to inside perimeter of opening along wood pieces Start and end first row at a corner, 1/16" from edge of wood. Start second row at the same point along first row.

INSTALLING TRIM FRAME - See Figure 8

21. Caulk (060955) observation trim frame along inside of flange and press into exterior opening.
22. Secure trim frame with 10 (015398) #5 5/8 wood screws and 10 (016538) #6 flush washers.

INSTALLING OBSERVATION WINDOW - See Figure 9

23. Turn door over again so interior of door is facing up.
24. Feed heating element electrical leads of the (046097) observation window thru wood frame hole into transformer box.
25. With the heater elements towards the exterior, insert top edge of observation window into recess in the top of the opening then set fully into opening.
26. Shim window into opening using tar paper cut into 1" wide strips folded 3/4" in width. Shim thickness determined by number of folds.
 - A. Using 2 shims along the top of observation window make sure one of the shims is located to the right of the center to allow a clearance for the heater element electrical leads.
 - B. Use 3 shims along each side.

INSTALLING INTERIOR WINDOW WOOD FRAMING - See Figures 10 and 11.

27. Drill 3, 7/64" thru holes in (005748) side wood pieces along 1¼" width. Holes should have 6" centers, centered with in wood piece length.
28. Drill 2, 7/64" thru holes in (005747) bottom wood piece along 1¼" width. Holes should have 6" centers, centered within wood piece length.
29. Drill 2, 9/64" thru holes in (005749) top wood piece along 1¼" width. Holes should have 6" centers, centered with in wood piece length.
30. Apply (016344) sponge rubber to ½" thick edge of (005748) side wood pieces and (005747) bottom wood piece. The (005749) top wood piece will need 3 rows to cover 1½" thick edge.
31. Caulk mating surface of (005748) side wood pieces and install with 3 (016399) #6-1 wood screw. Position the wood pieces 1/16" from edge of opening, facing interior of door cap.
32. Caulk mating surface of (005747) bottom wood piece and install with 2 (016399) #6-1 wood screws. Position the wood pieces 1/16" from edge of opening, facing interior of door cap.
33. Caulk mating surface of (005749) top wood piece and install with 2 (016402) #8-2¼" wood screws. Position the wood pieces 1/16" from edge of opening, facing interior of door cap.

INSTALLING SPONGE RUBBER TRIM SEAL - See Figure 11

34. Apply 2 rows of (016344) sponge rubber to inside perimeter of opening along wood pieces. Start and end first row at a corner, 1/16" from edge of wood. Start second row at the same point along first row.

INSTALLING TRIM FRAME - See Figure 11

35. Test fit the (060955) observation trim frame for excessive gaps. If needed, add an extra run of sponge rubber to fill gap. Caulk the backside of frame along inside corner and insert into opening.
36. Secure trim frame with 10 (016398) #6-5/8 wood screws and 10 (016538) #6 flush washers.

INSTALLING OBSERVATION WINDOW TRANSFORMER - See Figure 12

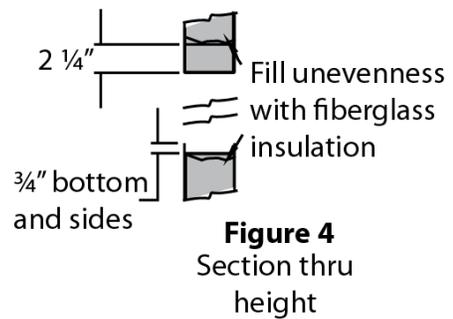
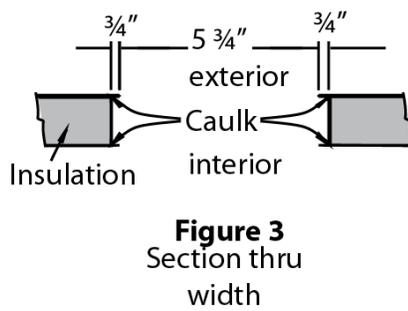
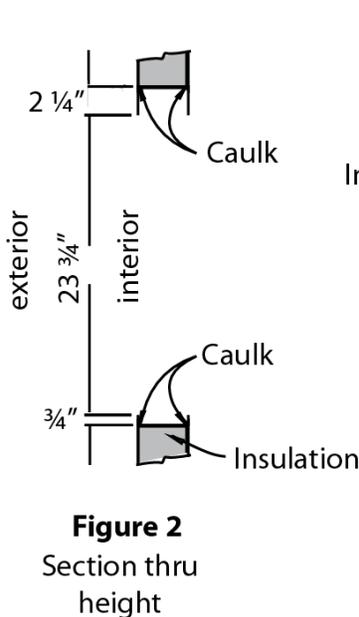
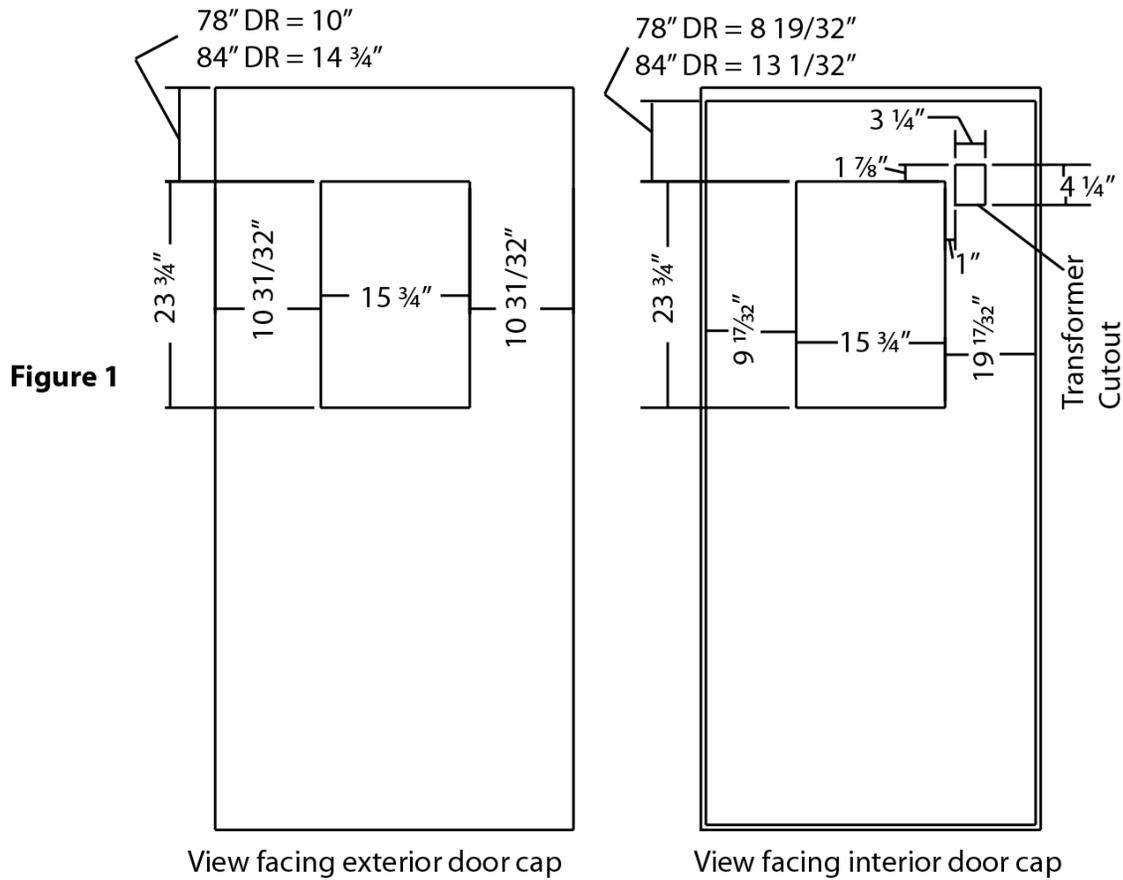
37. Install (016990) observation window transformer into transformer box using 4 (016423) #8-½" screws. One of the screws will be used to ground the ground lead.
38. Using the 4 (017305) wire nuts, make the necessary connections for the (016288) electrical cord, transformer and observation window heater element leads. See wiring diagram for connections.
39. Install ground lead at one of the transformer mounting locations.

INSTALLING TRANSFORMER COVER PLATE - See Figure 12

40. Drill 1/8" hole through interior skill of door ¼" from edge of transformer box opening centered within the width. This should expose the pilot hole that is used to mount the cover plate. Please take in account this is a literal position and any deviation from the given opening dimensions and/or box location should be considered before drilling.
41. Drill 9/16" hole through center of (018396) cover plate and insert (016800) rubber grommet.
42. Slide (016288) electrical cord through hole leaving 2" from grommet to electrical cord insulation.
43. Install cover plate using 2 (016435) #6-½" pan head screws.

REASSEMBLY

44. Mount door cap onto its hinges.
45. Conned the observation window electrical cord to the light junction box. See wiring diagram for connections. Reconnect any other connections that were disconnected at door removal.



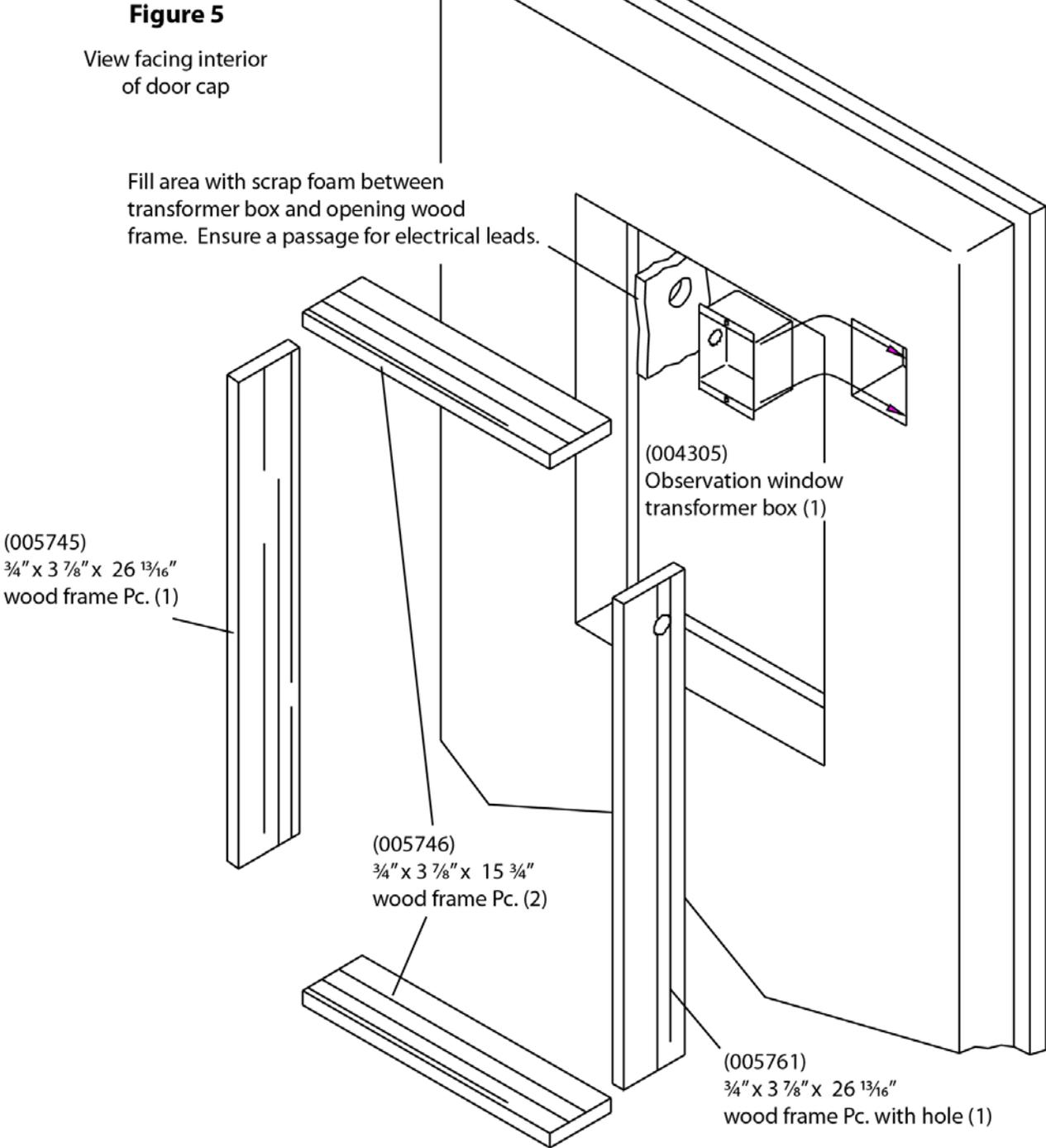
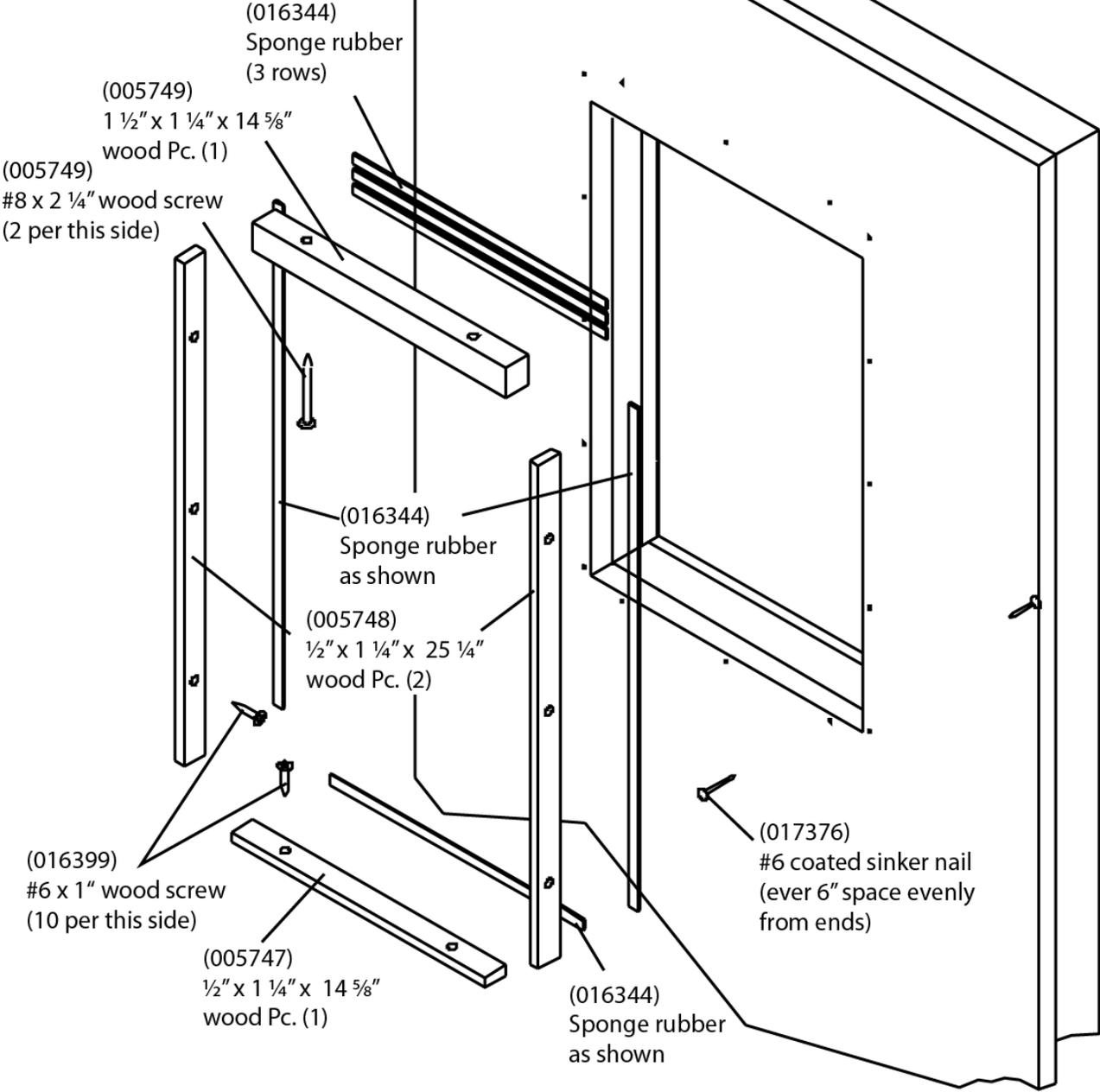


Figure 6

View facing exterior
of door cap



INSTRUCTION MANUAL
Field Mounted Observation Window
IM-124-70

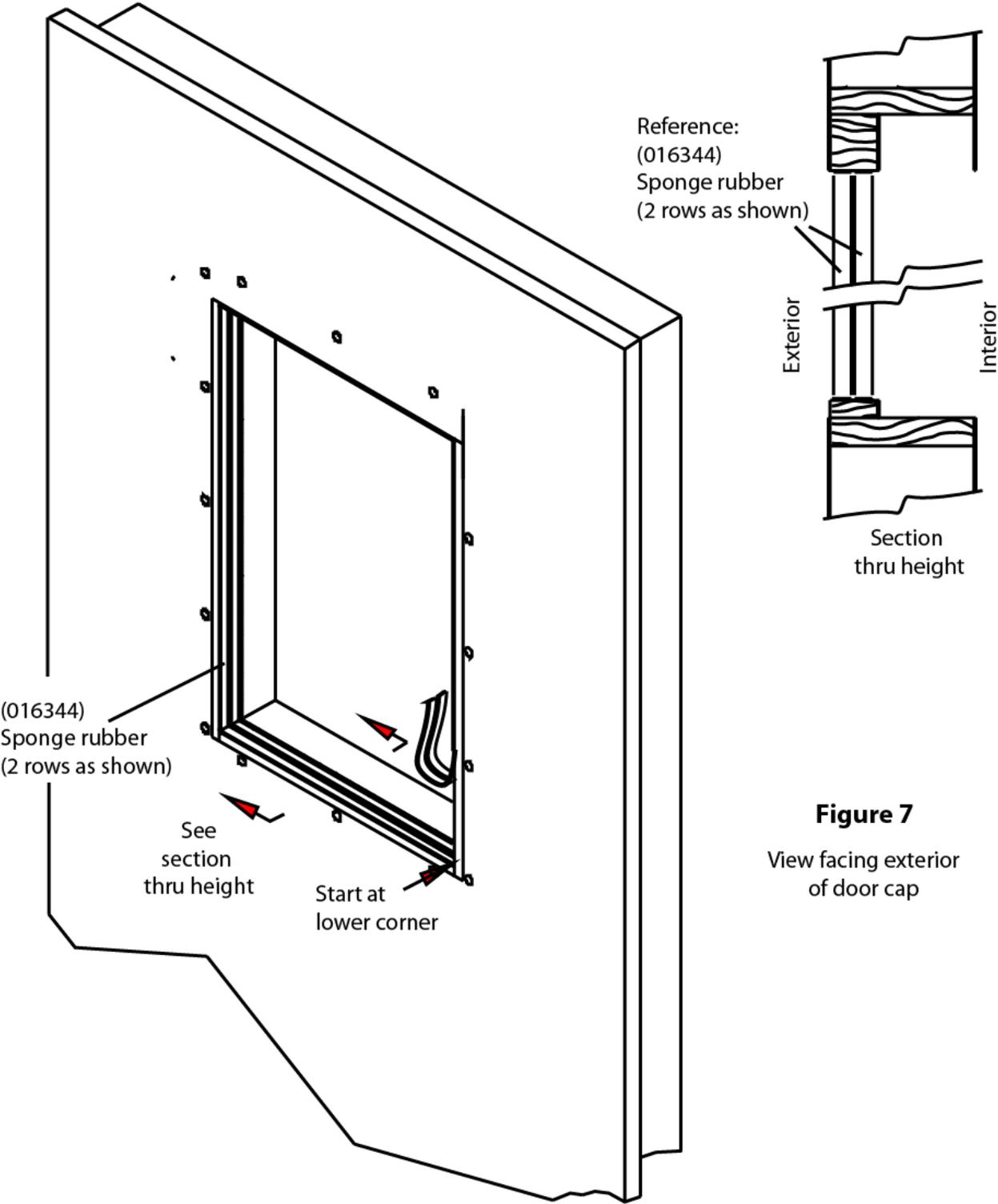


Figure 7
View facing exterior
of door cap

Figure 8

View facing exterior
of door cap

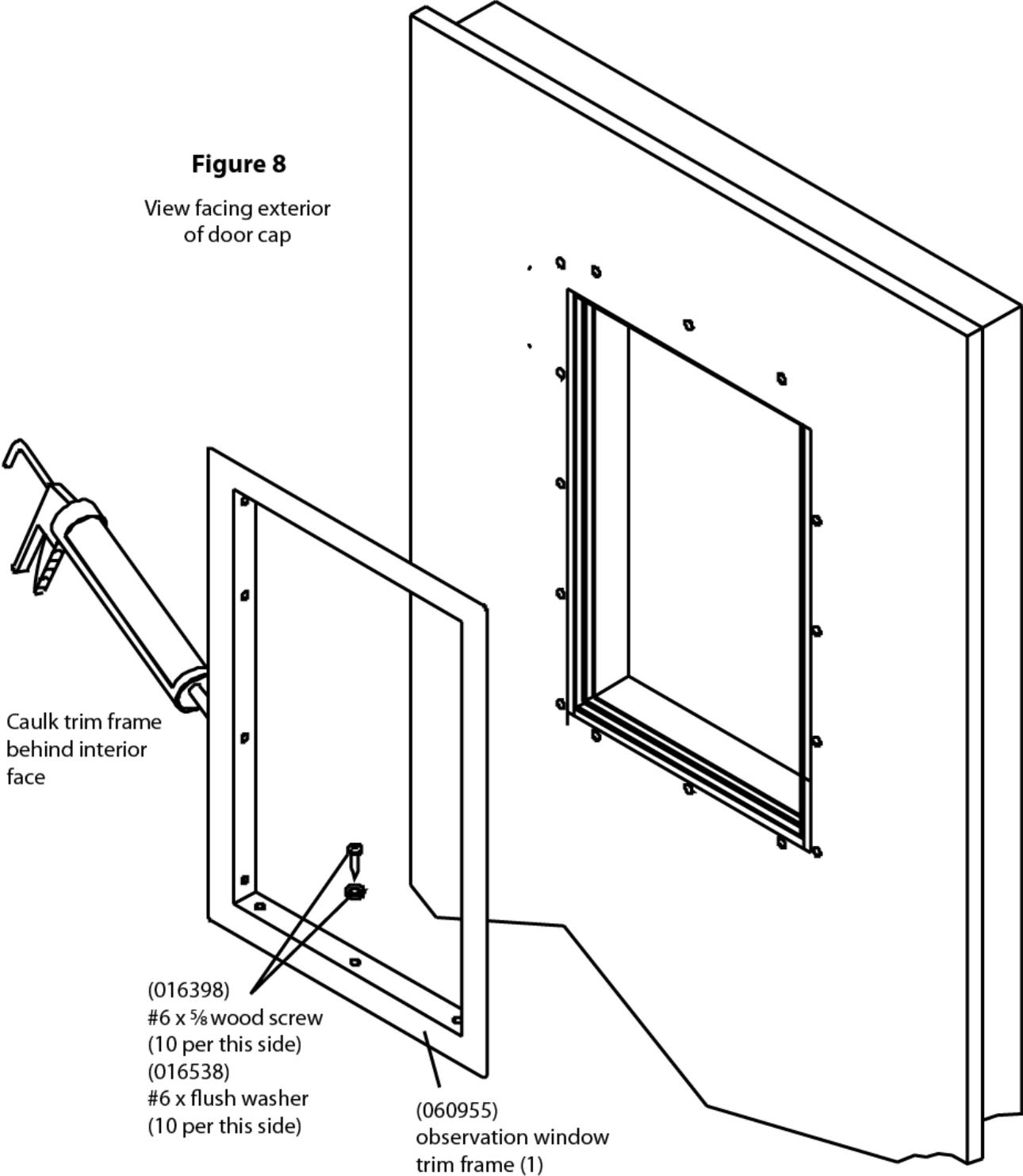


Figure 9
View facing interior
of door cap

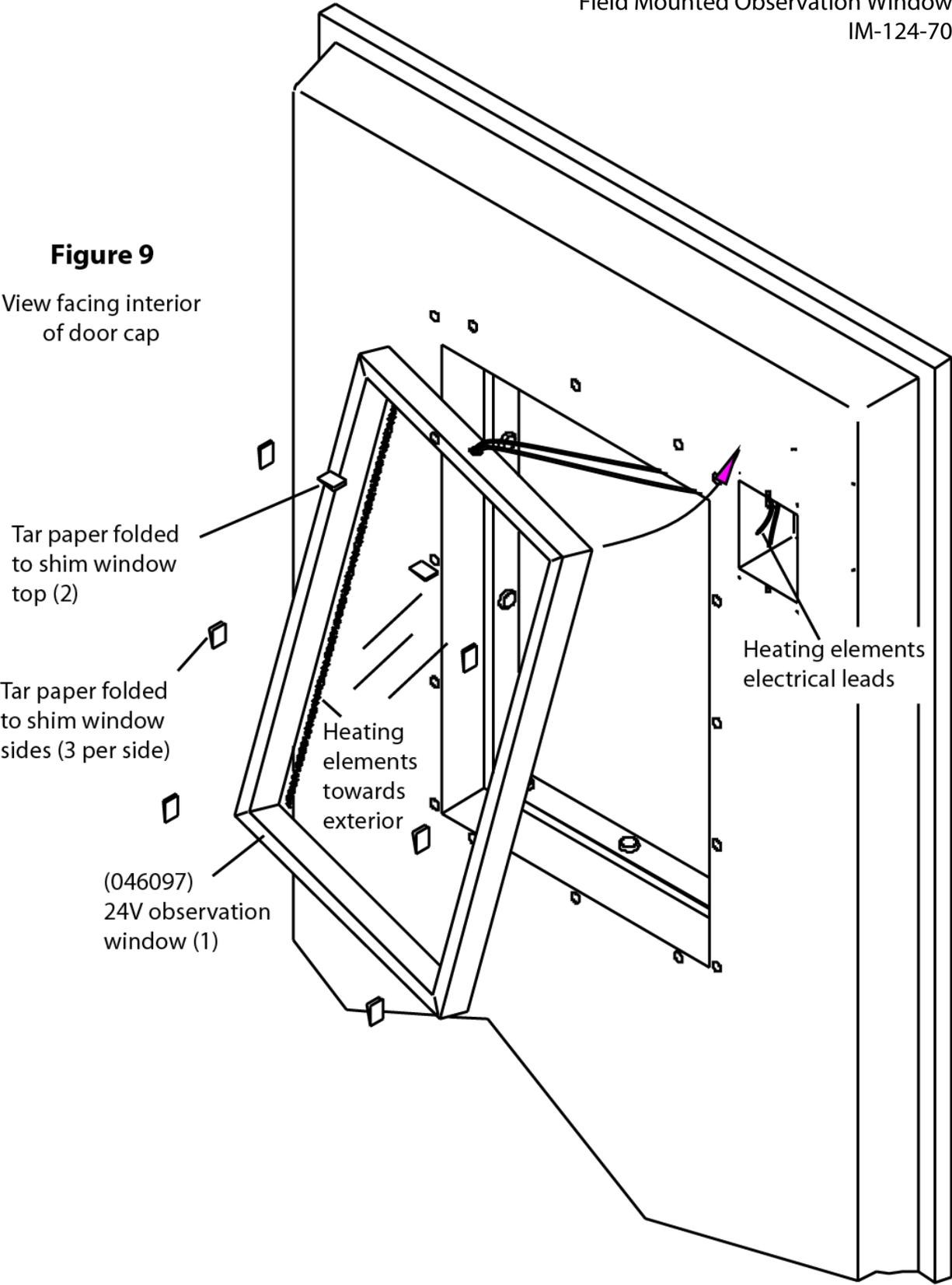


Figure 10
 View facing interior
 of door cap

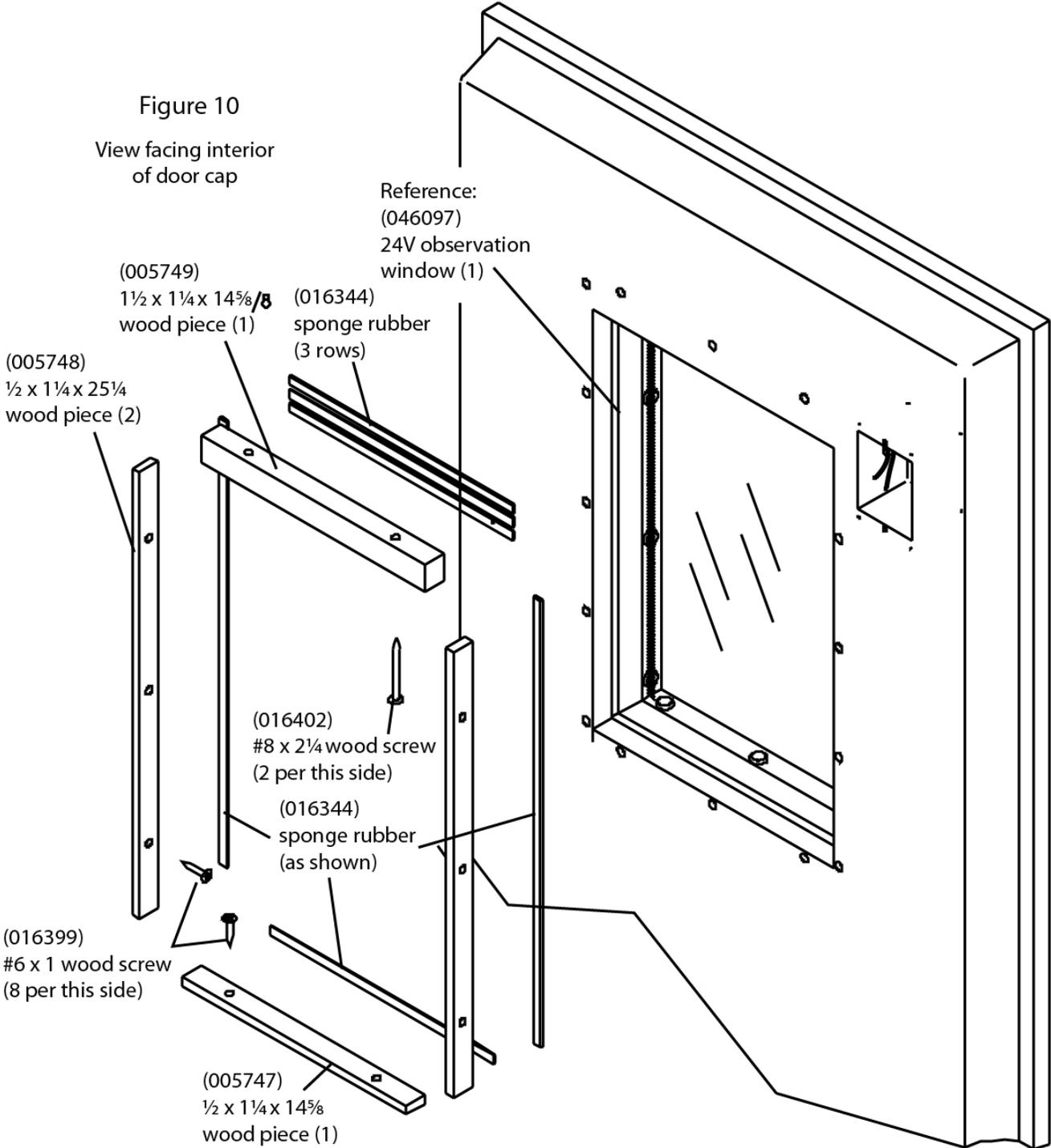
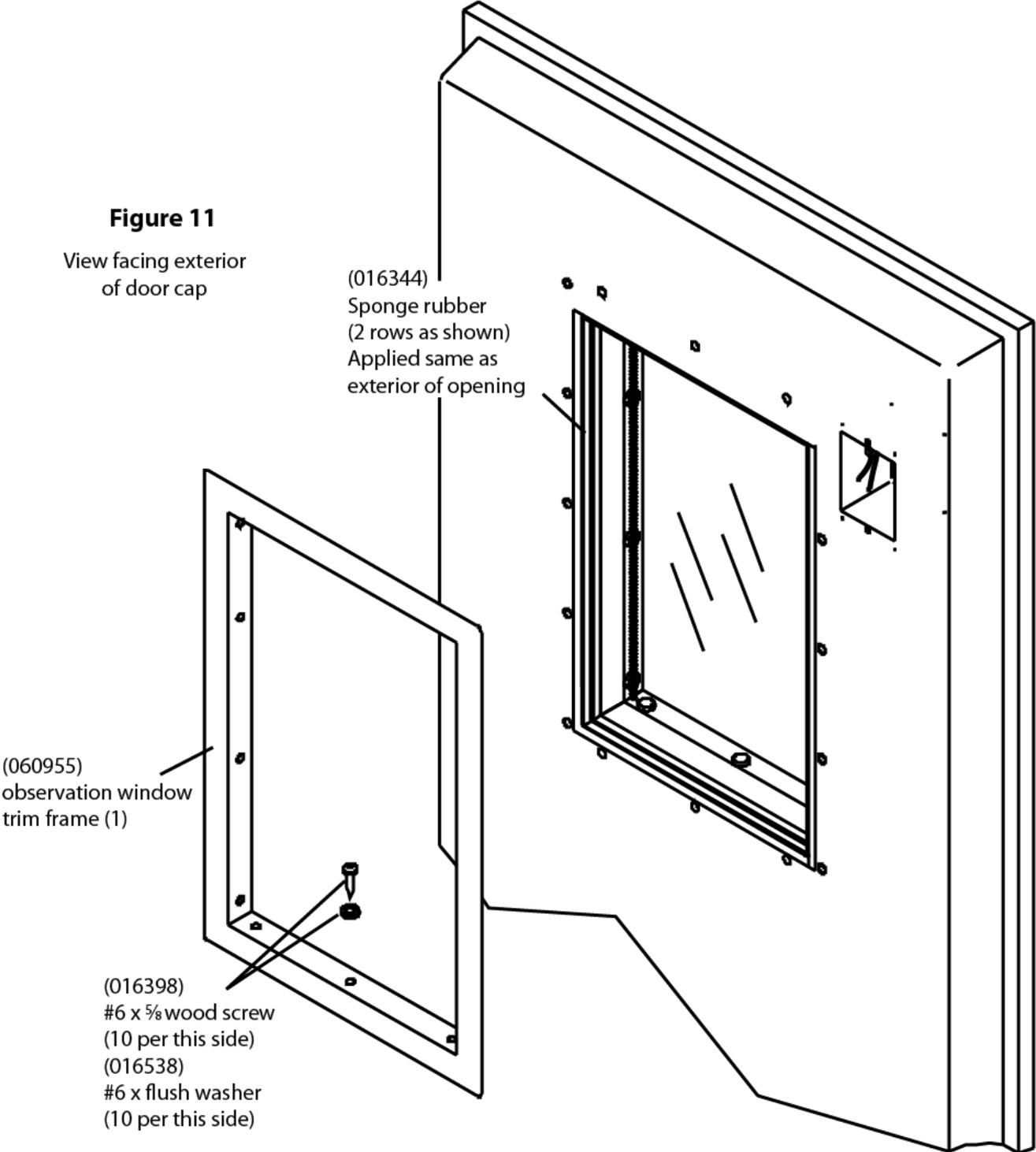


Figure 11
View facing exterior
of door cap



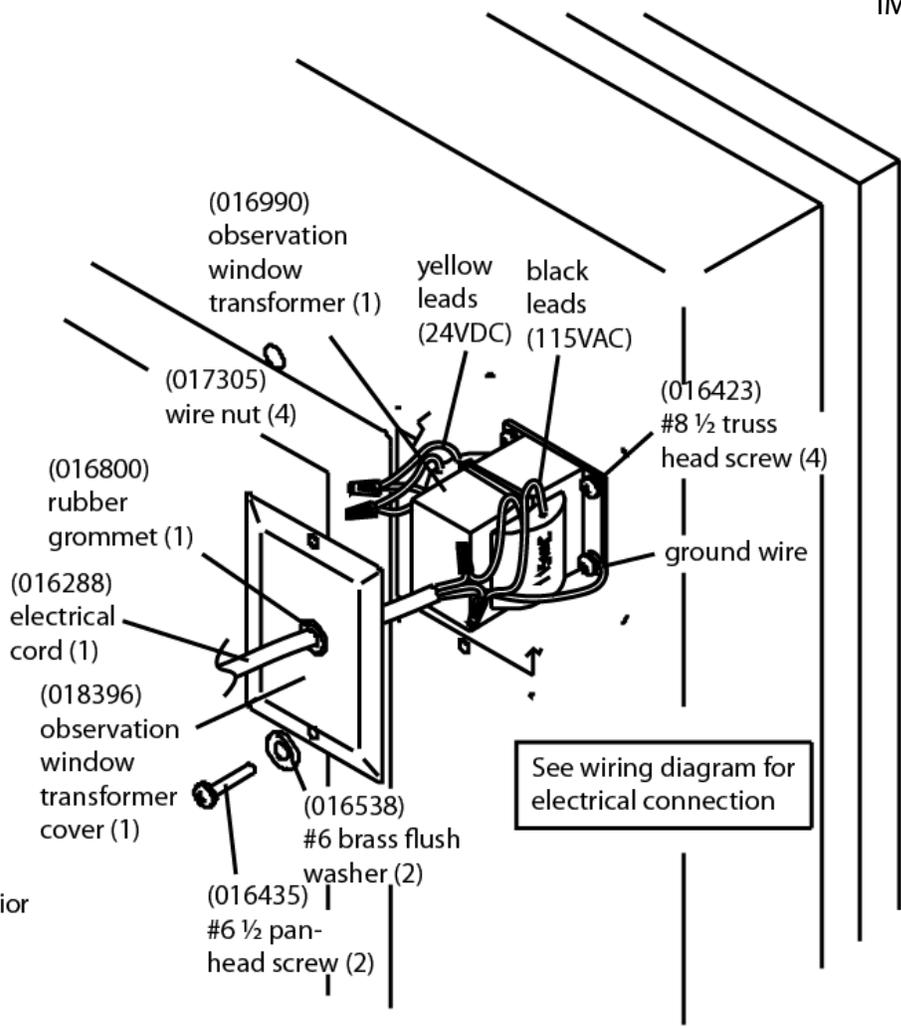


Figure 12
 View facing interior of door cap

