



INSTRUCTION BULLETIN

No. 3797
Machine: 830
Published: 4-98/01
System: SWEEPING

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in your machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save you the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

Installation Instructions for Kit number 761180

SYNOPSIS / PROBLEM:

This kit contains the parts needed to install a quick removal main brush door on the model 830 sweeper (serial # 0000 thru 1710).

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: Pop rivet gun, Welder, hand drill, .375 diam. and 1/2 inch drill bits.

(Estimated Time to complete: 2 hours)

INSTALLATION STEPS USING EXISTING DOOR:

(Refer to FIG. 1, 2, 3, and 4)

FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.

1. Remove the main brush door by loosening the brush door knob at the rear of the door.
2. Remove the knob from the door and discard the knob.
3. Using means available, adjust the rear wall of the main brush compartment so that it is as close to vertical as possible. Also adjust the front brush door supports so they are vertical. (Refer to FIG. 1 and 2)
4. Attach the 2 door retainer handles (5) to the bracket weldment (2) using four pop rivets (4).
5. Position the bracket weldment (2), with the retainer handles (5) attached, on the machines main brush rear cross channel with the edge of the weldment (2) 1-1/2 inches from the end of the channel. (Refer to FIG. 4)
6. Weld the bracket (2) in using 3 inches of weld on each side, top and bottom. (Refer to FIG. 4)
7. Position the frame channel (1) on the end flange of the brush door. Mark the centers of the 2 mounting holes on the door. (Refer to FIG. 3)
8. Drill two .375 inch diameter holes in the brush door at the position marked. (Refer to FIG. 3)
9. Attach the 2 retainer handle catches (contained with retainer handles) to the frame channel (1) using 4 pop rivets (4). (Refer to FIG. 3)
10. Attach the frame channel (1) to the brush door using 2 hex screws (7), 2 flat washers (8), and 2 nyloc nuts (6). Tighten to 15 - 20 ft lb. (Refer to FIG. 3)

11. Position the brush door in place by inserting the two pins on the front of the door in the two holes in the front door support. (Refer to FIG. 1 and 2)
12. Swing the brush door closed with the rear of the door raised as far as possible. Use the door retainer handles (5) hold the door in place. (Refer to FIG. 3)
13. Mark a point on the rear flange of the brush door, 1 - 1/4 inches down from the top of brush door and centered on the rear flange and rear brush shroud. (Refer to FIG. 3)

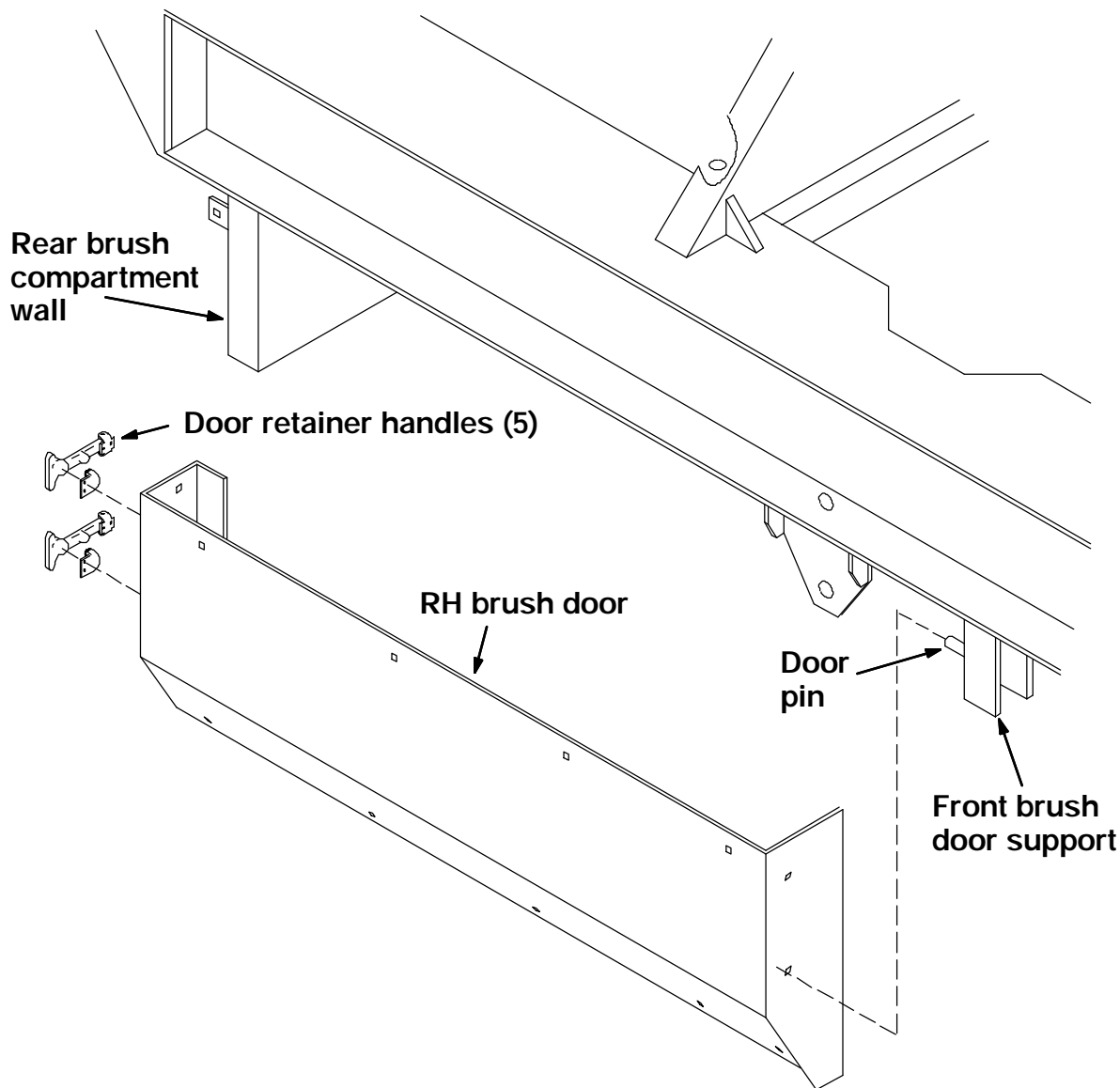


FIG. 1 - RH Brush Door Assembly (new door)

14. Keeping the door clamped in place, drill a .375 inch diameter hole on the mark made in the previous step. (Refer to FIG. 3)
15. Remove the door and enlarge the .375 inch diameter hole to 1/2 inch. (Refer to FIG. 3)
16. Position the pin (3) in the 1/2 inch diameter hole and weld it to the rear flange of the brush door. (Refer to FIG. 3)
17. Reinstall the brush door.

INSTALLATION STEPS USING NEW DOORS (761177 LH OR 761178 RH):

(Refer to FIG. 1, 2, 3, and 4)

FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.

1. Remove the main brush door by loosening the brush door knob at the rear of the door.
2. Remove the knob from the door and discard the knob.
3. Using means available, adjust the rear wall of the main brush compartment so that it is as close to vertical as possible. Also adjust the front brush door supports so they are vertical.
(Refer to FIG. 1 and 2)

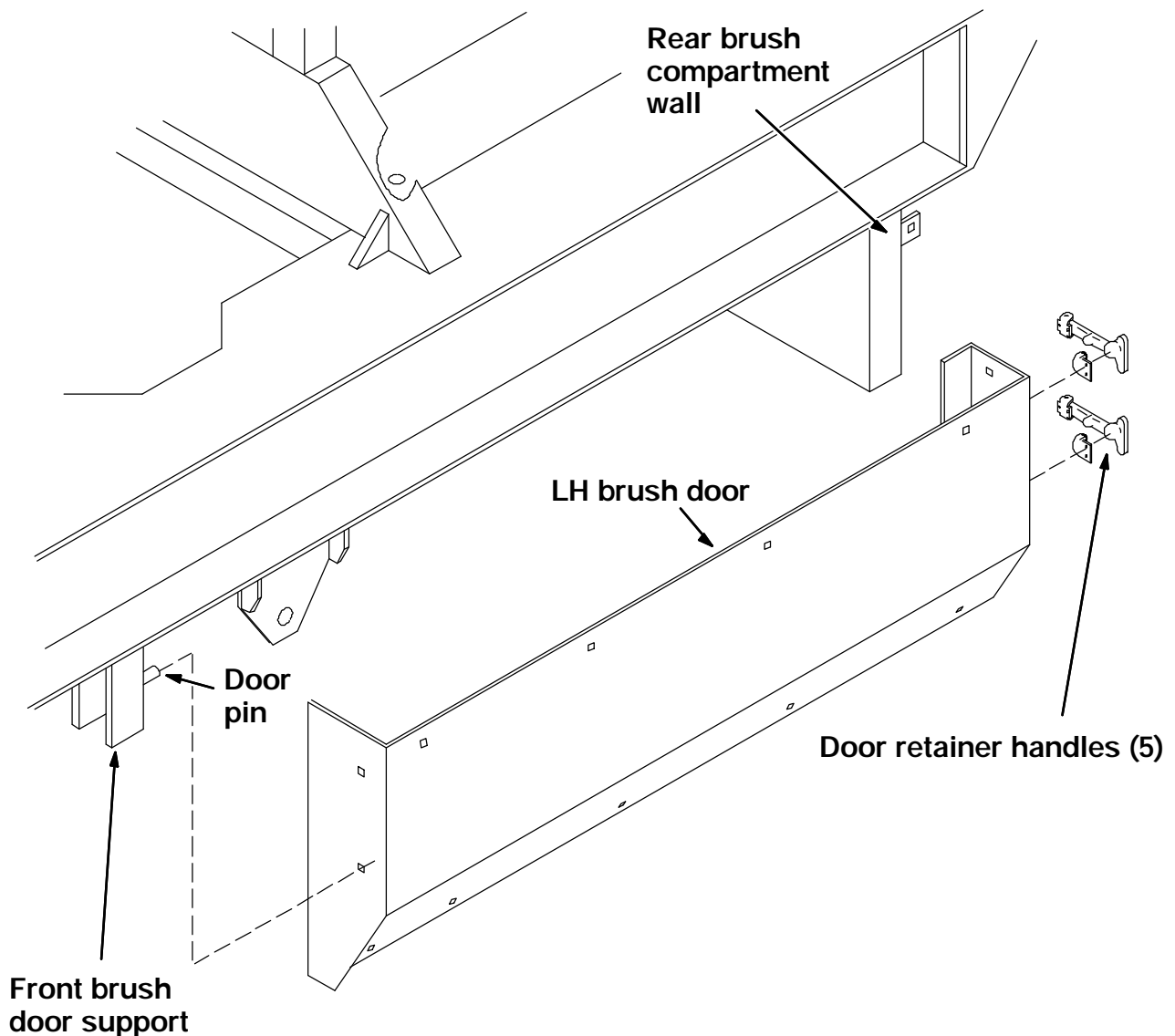


FIG. 2 - LH Brush Door Assembly (new door)

4. Attach the 2 door retainer handles (5) to the bracket weldment (2) using four pop rivets (4).
5. Position the bracket weldment (2), with the retainer handles (5) attached, on the machine's main brush rear cross channel with the edge of the weldment (2) 1-1/2 inches from the end of the channel. (Refer to FIG. 4)
6. Weld the bracket (2) in using 3 inches of weld on each side, top and bottom. (Refer to FIG. 4)

7. Position the frame channel (1) on the end flange of the brush door. Mark the centers of the 2 mounting holes on the door. (Refer to FIG. 3)
8. Drill two .375 inch diameter holes in the brush door at the position marked. (Refer to FIG. 3)
9. Attach the 2 retainer handle catches (contained with retainer handles) to the frame channel (1) using 4 pop rivets (4). (Refer to FIG. 3)
10. Attach the frame channel (1) to the brush door using 2 hex screws (7), 2 flat washers (8), and 2 nyloc nuts (6). Tighten to 15 - 20 ft lb. (Refer to FIG. 3)

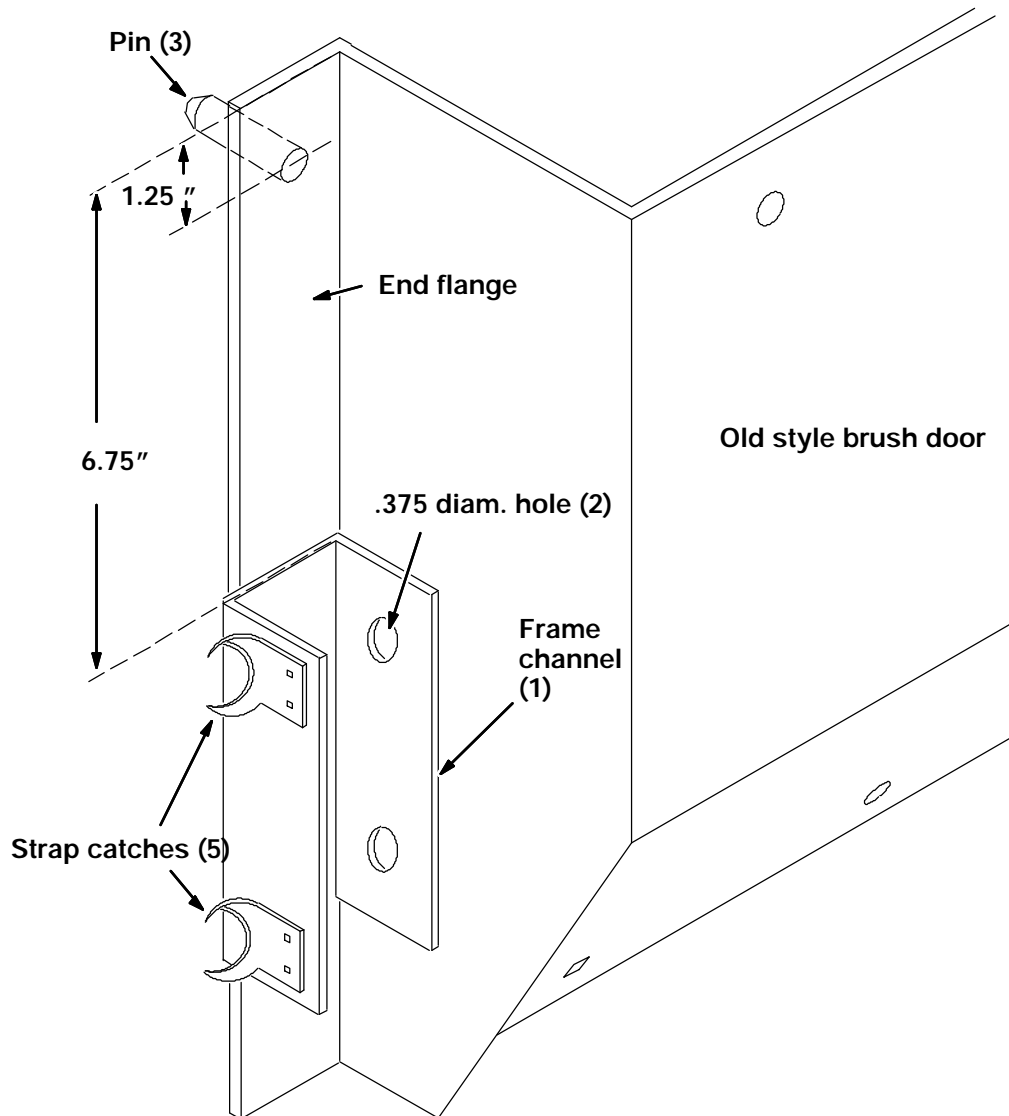


FIG. 3 - Rear Rework Of Old Style Brush Door

11. Position the brush door in place by inserting the two pins on the front of the door in the two holes in the front door support. (Refer to FIG. 1 and 2)
12. Swing the brush door closed until the pin on the rear flange contacts the rear support. (Refer to FIG. 3)
13. Mark a position on the rear brush shroud where the pin at the rear of the door strikes the shroud. (Refer to FIG. 3)
14. Lower the door and drill a 1/2 inch diameter hole in the rear brush shroud where the pin hit. (Refer to FIG. 3)

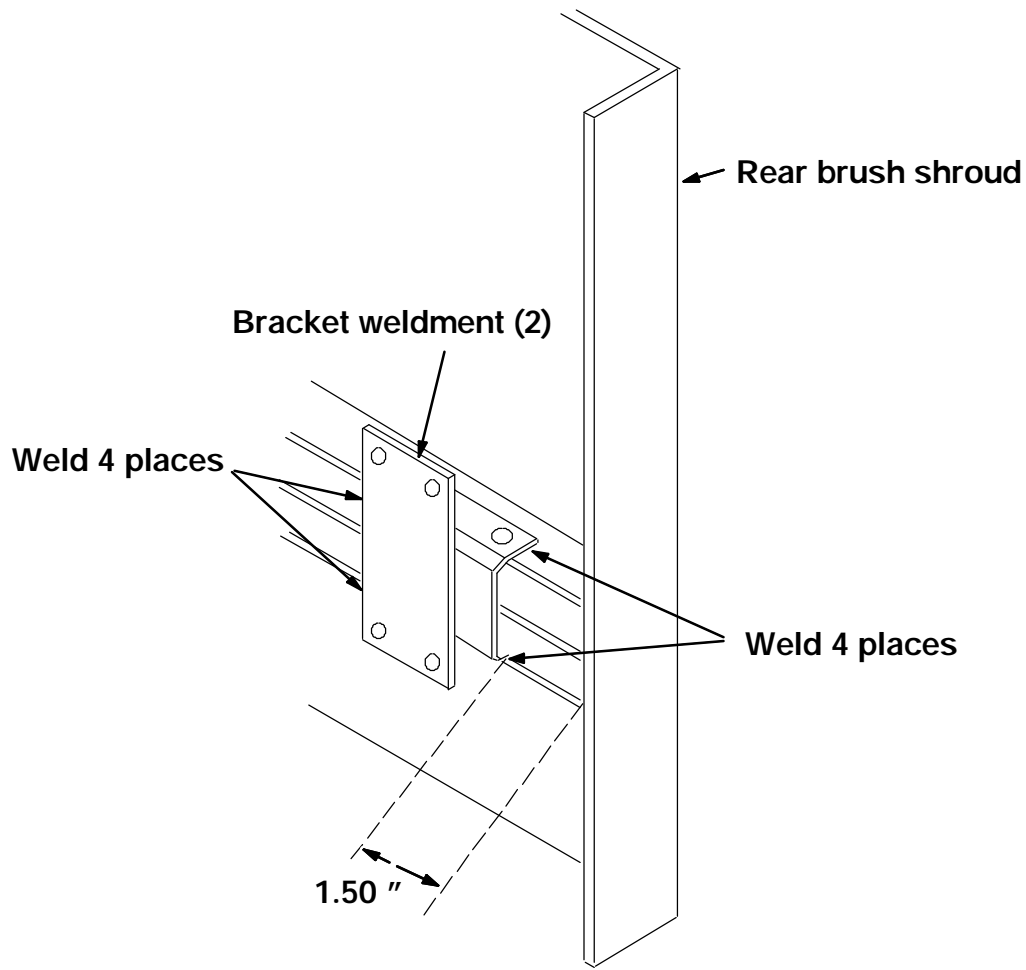


FIG. 4 - Rear Rework Of Old Style Brush Door

15. Install the new brush door.

NOTE: You should have a pin (3), a channel (1), and some hardware left over. This can be discarded.

BILL OF MATERIALS FOR QUICK REMOVE MAIN BRUSH DOOR KIT 761180

Ref.	TENNANT Part No.	Description	Qty.
1	760216	Frame channel	1
2	760372	Bracket weldment	1
3	768700	Pin	1
4	60428	Pop rivet	10
5	761179	Door retainer handle	2
6	08713	M8 nyloc nut	2
7	16735	M8 hex screw	2
8	32492	.38 flat washer	2

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