



INSTRUCTION BULLETIN

No. 3716
Machine: 830
Published: 6-96/02
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 760051

SYNOPSIS / PROBLEM:

This kit contains the parts needed to install a side brush dust control kit on the machine listed above. Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: Hand drill, 5/16 in. drill bit, The installation of the SBDC assembly in the machine requires two people.

(Estimated Time to complete: 12 hours)

PREPARATION:

(Refer to FIG. 1 and 2)

1. Raise the side brush completely off the ground. If equipped with dual side brushes; raise both.

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

2. Remove the side brush assembly from the right side of the machine (operators side).
3. Remove both front inner fenders from above the drive wheels. (Refer to Fig. 1)

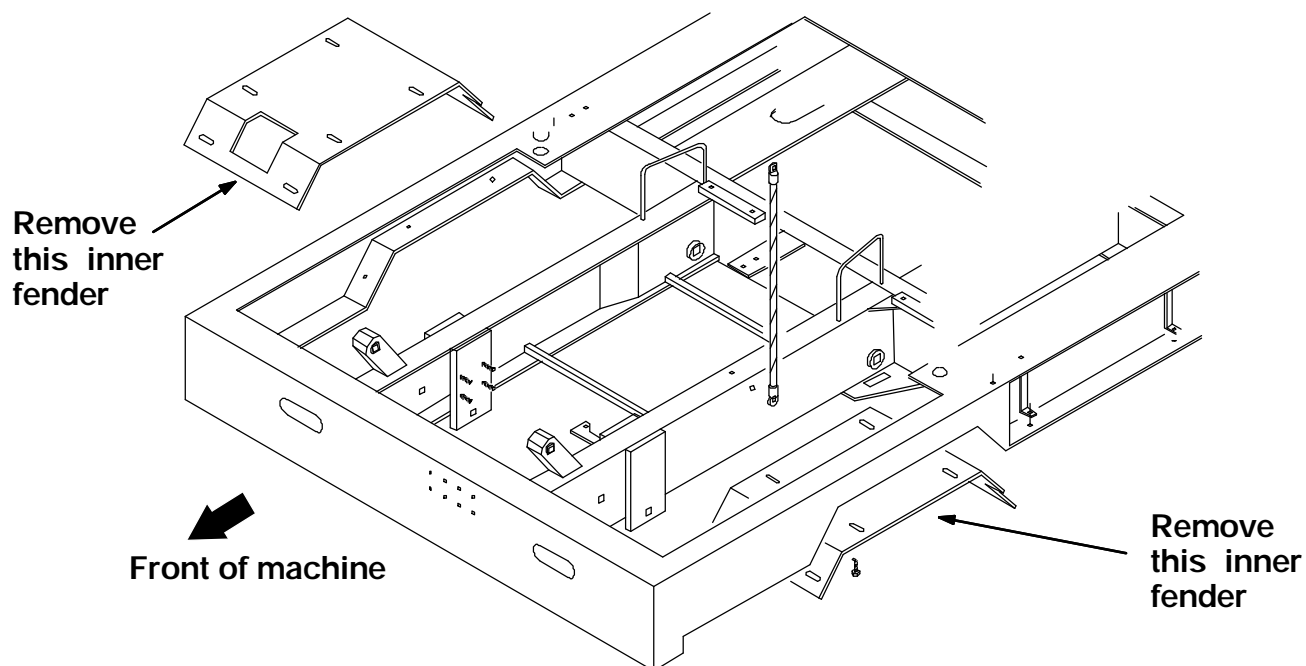


FIG. 1 - Remove Inner Fender

4. Look under the machine toward the center. If the machine is equipped with a center hanging skirt; remove it by removing and discarding the hardware holding the mounting chains to the machine frame and hydraulic drive motor.
5. Open the RH side engine door. Remove the engine floor plate under the fuel tank filler neck. (Refer to Fig. 2)

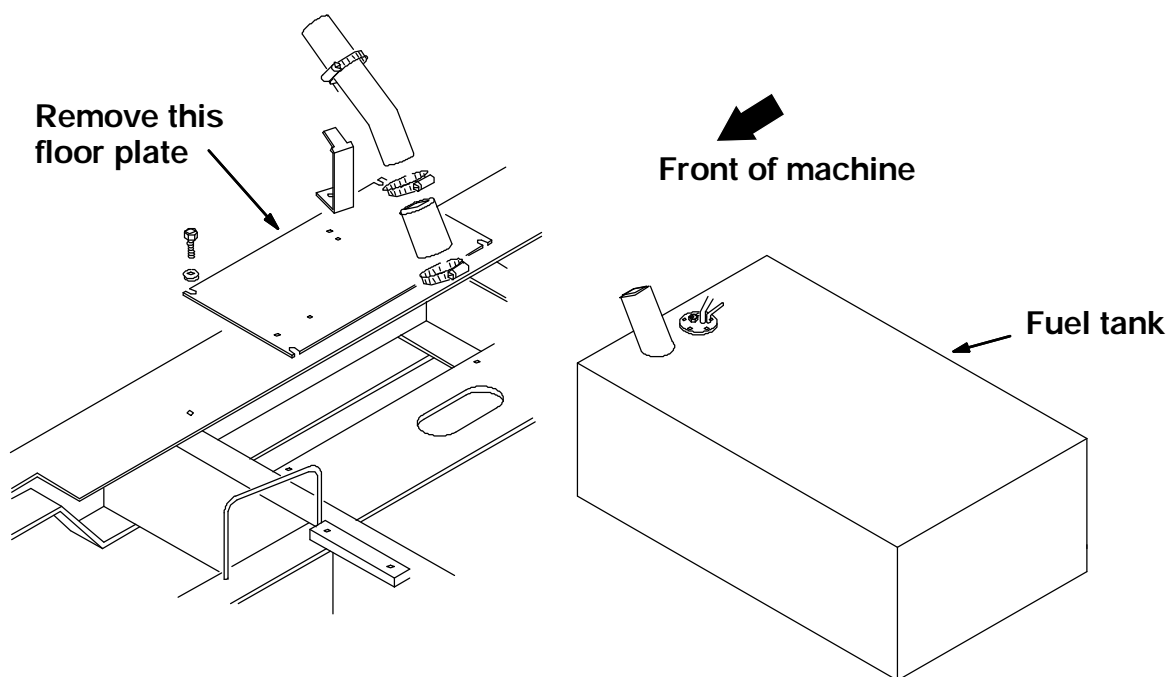


FIG. 2 - Remove Floor Plate

ASSEMBLE SIDE BRUSH DUST CONTROL:

(Refer to FIG. 3 and 4)

1. Assemble the left (10) and right (11) upper panels together. (Refer to Fig. 3)
2. Assemble the two front triangle baffles (19) to the upper panel assembly. (Refer to Fig. 3)
3. Assemble the right front support bar (21) to the upper panel assembly. (Refer to Fig. 3)

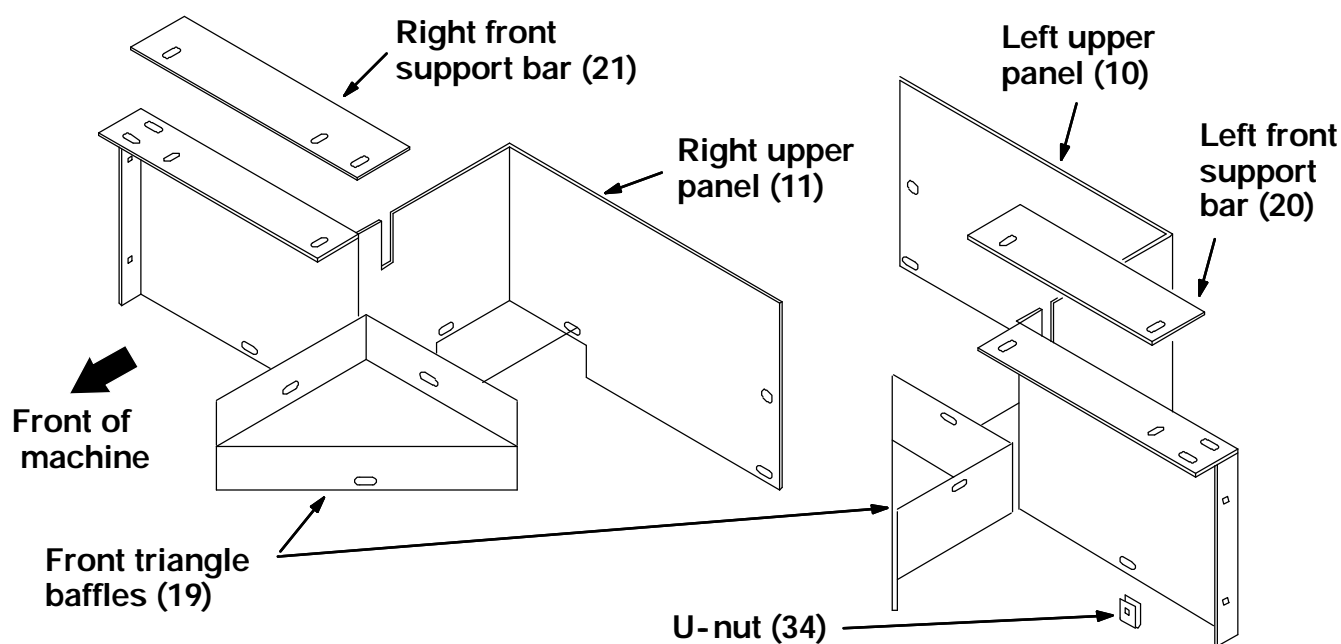


FIG. 3 - Assemble Upper Panels

4. Assemble the left front support bar (20) to the upper panel assembly. (Refer to Fig. 3)
5. Install U-nuts (34) in the holes along the bottom of the upper panel assembly. (Refer to Fig. 4)

NOTE: The U-nuts must be installed with the threaded side pointing to the rear of the machine.

6. Assemble the right front lower skirt baffle (12) to the left front lower skirt baffle (13). (Refer to Fig. 4)
7. Install U-nuts (34) in the holes along the bottom of the lower skirt baffle assembly. (Refer to Fig. 4)

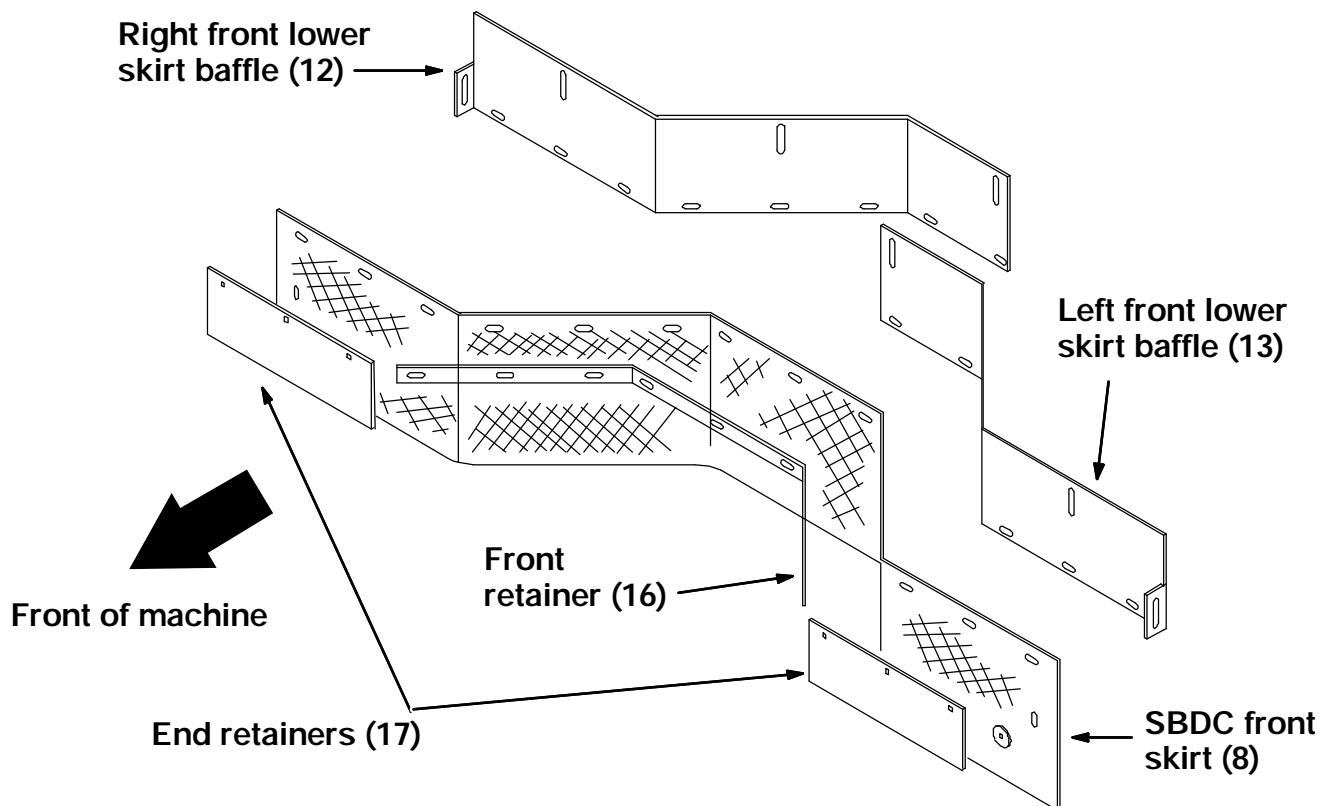


FIG. 4 - Assemble Front Skirt

NOTE: The U-nuts must be installed with the threaded side pointing to the rear of the machine.

8. Assemble the SBDC front skirt to the lower skirt baffle assembly using two end retainers (17) and one front retainer (16). (Refer to Fig. 4)

NOTE: Leave the hardware in the long slots loose for the skirt adjustment latter in this bulletin.

INSTALL SIDE BRUSH DUST CONTROL ASSEMBLY IN DUAL SIDE BRUSH MACHINE: (Refer to Figures 5 and 6)

1. Position the SBDC assembly under the machine by coming in from the right side. Push the assembly in at an angle to clear the drive motor on the front axle. Once the assembly is in place it needs to be lifted up in position. This operation must be done using two people.
2. Install the mounting hardware in the holes provided in the frame of the machine.

NOTE: Some early machines do not have the holes pre-drilled.

3. Install a U-nut (34) in the end of both upper side seal bars (14). (Refer to Fig. 5)
4. Install the upper side seal bars (14) in the machine with the end with the U-nut bolting to the machine frame and the end with the 90° bend bolting to the SBDC upper panel. (Refer to Fig. 5)

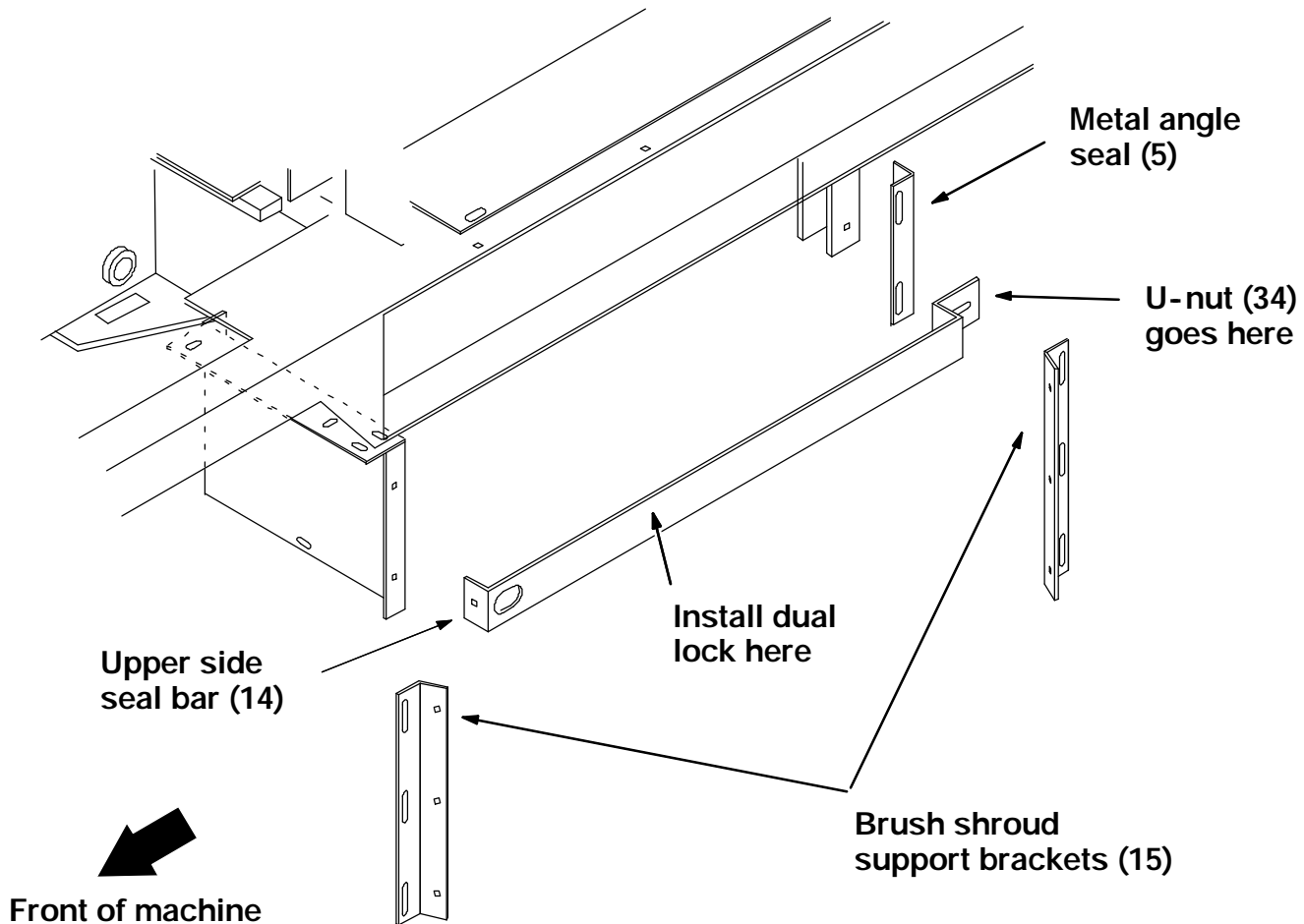


FIG. 5 - Assemble Side Brush Brackets

5. Cut two strips of the dual lock adhesive (23) the length of the upper side seal bar (14). Peel off the backing and position it both bars.
6. Install the two metal angle seals (5) on each side of the machine frame. (Refer to Fig. 5)
7. Install the four brush shroud support brackets (15) on the machine. (Refer to Fig. 5)
8. Install both dust control poly side shrouds (9) and side brush skirts (7) using the four side skirt retainers (22) and two side skirt poly retainers (18). (Refer to Fig. 6)

9. Use the two brush door skirt retainers (4) to attach the back end of the side brush skirt (7) to the machine's brush door. There should be mount holes in the front lower side of the door. (Refer to Fig. 6)
10. Slip one of the retainer strips (18) in the pocket on each of the new covers (6). (Refer to Fig. 6)

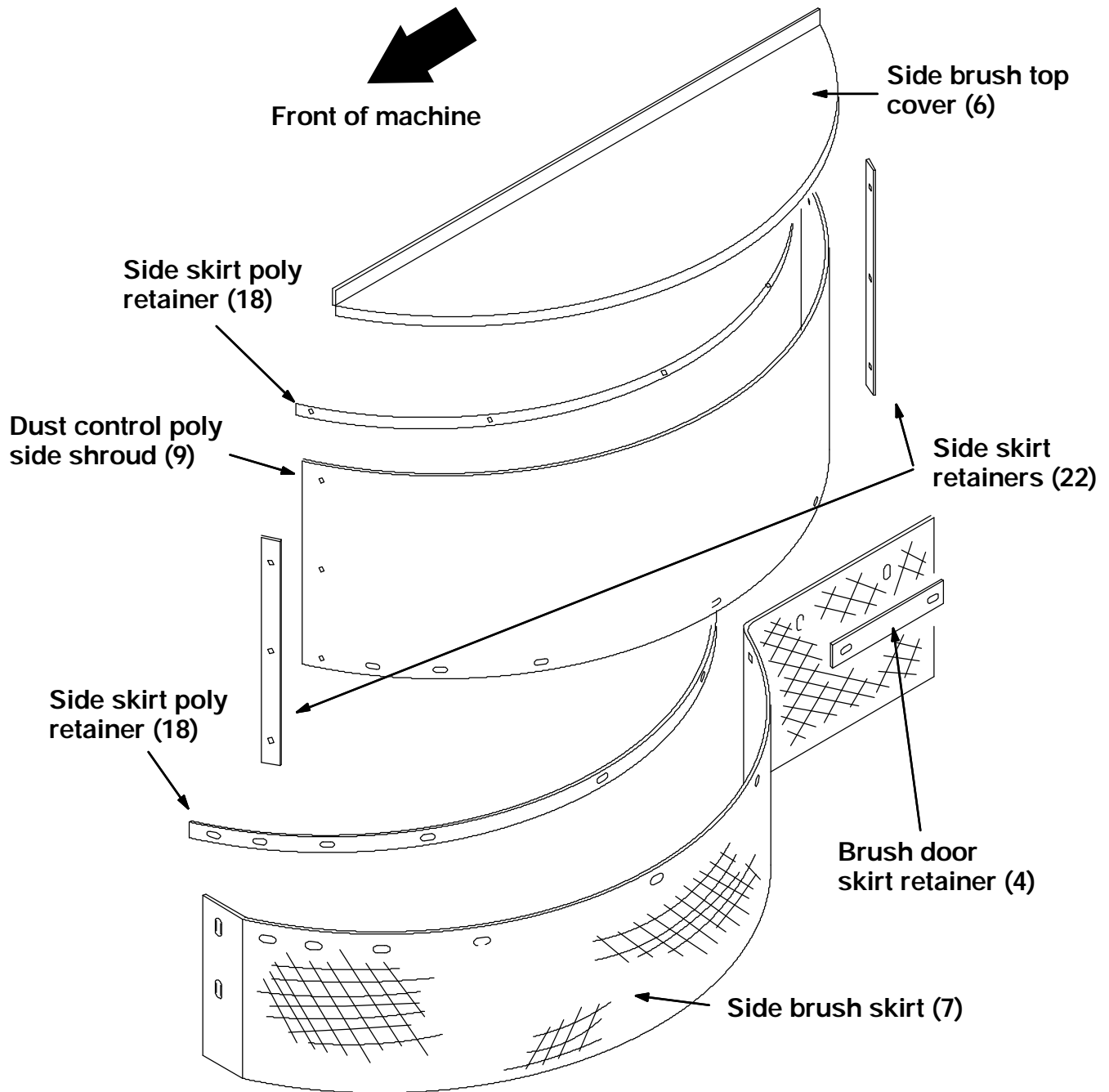


FIG. 6 - Assemble Side Brush Skirts

11. Attach the side brush top cover (6) and skirt retainer (18) to the top of the poly side shroud (9). (Refer to Fig. 6)
12. Press the straight edge of the top cover (6) to the dual lock adhesive (23) on the upper side seal bar (14). (Refer to Fig. 5 and 6)

INSTALL SIDE BRUSH DUST CONTROL ASSEMBLY IN MACHINE WITH RIGHT SIDE BRUSH ONLY:

(Refer to Figures 6, 7, and 8)

1. Position the SBDC assembly under the machine by coming in from the right side. Push the assembly in at an angle to clear the drive motor on the front axle. Once the assembly is in place it needs to be lifted up in position. This operation must be done using two people.
2. Install the mounting hardware in the holes provided in the frame of the machine.

NOTE: Some early machines do not have the holes pre-drilled.

3. Install a U-nut (34) in the end of both upper side seal bars (14). (Refer to Fig. 7)
4. Install the upper side seal bars (14) in the machine with the end with the U-nut bolting to the machine frame and the end with the 90° bend bolting to the SBDC upper panel. (Refer to Fig. 7)
5. Install the two metal angle seals (5) on each side of the machine frame. (Refer to Fig. 7)

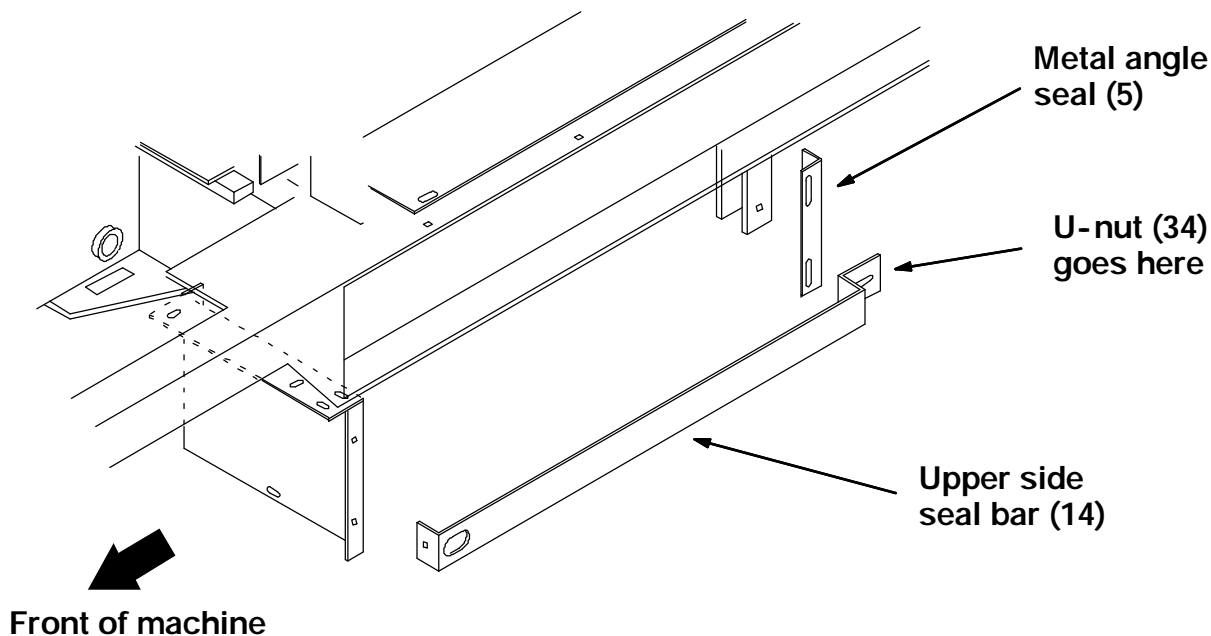


FIG. 7 - Assemble Side Brush Brackets

STEPS 6 THROUGH 12 ARE FOR THE RIGHT HAND SIDE OF THE MACHINE ONLY:

(Refer to Figures 6 and 7)

6. Install two brush shroud support brackets (15) on the RH side of the machine. (Refer to Fig. 7)
7. Reinstall the right hand side brush.
8. Install one dust control poly side shroud (9) and side brush skirt (7) using two side skirt retainers (22) and one side skirt poly retainer (18). Leave the hardware loose for now. (Refer to Fig. 6)
9. Use one brush door skirt retainer (4) to attach the back end of the side skirt (7) to the machines RH brush door. There should be mounting holes in the front lower side of the door. (Refer to Fig. 6)
10. Slip one of the retainer strips (18) in the pocket on each of the new covers (6). (Refer to Fig. 6)

11. Attach the side brush top cover (6) and skirt retainer (18) to the top of the poly side shroud (9). (Refer to Fig. 6)
12. Press the straight edge of the top cover (6) to the dual lock adhesive (23) on the upper side seal bar (14). (Refer to Fig. 5 and 6)

STEPS 13 THROUGH 19 ARE FOR THE LEFT HAND SIDE OF THE MACHINE ONLY:

(Refer to Figures 6 and 8)

13. The brush shroud support brackets (15) are not used on the left hand side. (Refer to Fig. 8)
14. Assemble the side brush skirt (7) to the dust control poly side shroud (9) using six hex screws, fender washers, and nyloc nuts. **Do not** use the side skirt poly retainer (18). (Refer to Fig. 6)
15. Place the dust control poly side shroud (9), and side brush skirt (7) flat against the left side of the machine. Use one side skirt retainer (22) on each end. Leave the hardware loose for now. (Refer to Fig. 8)

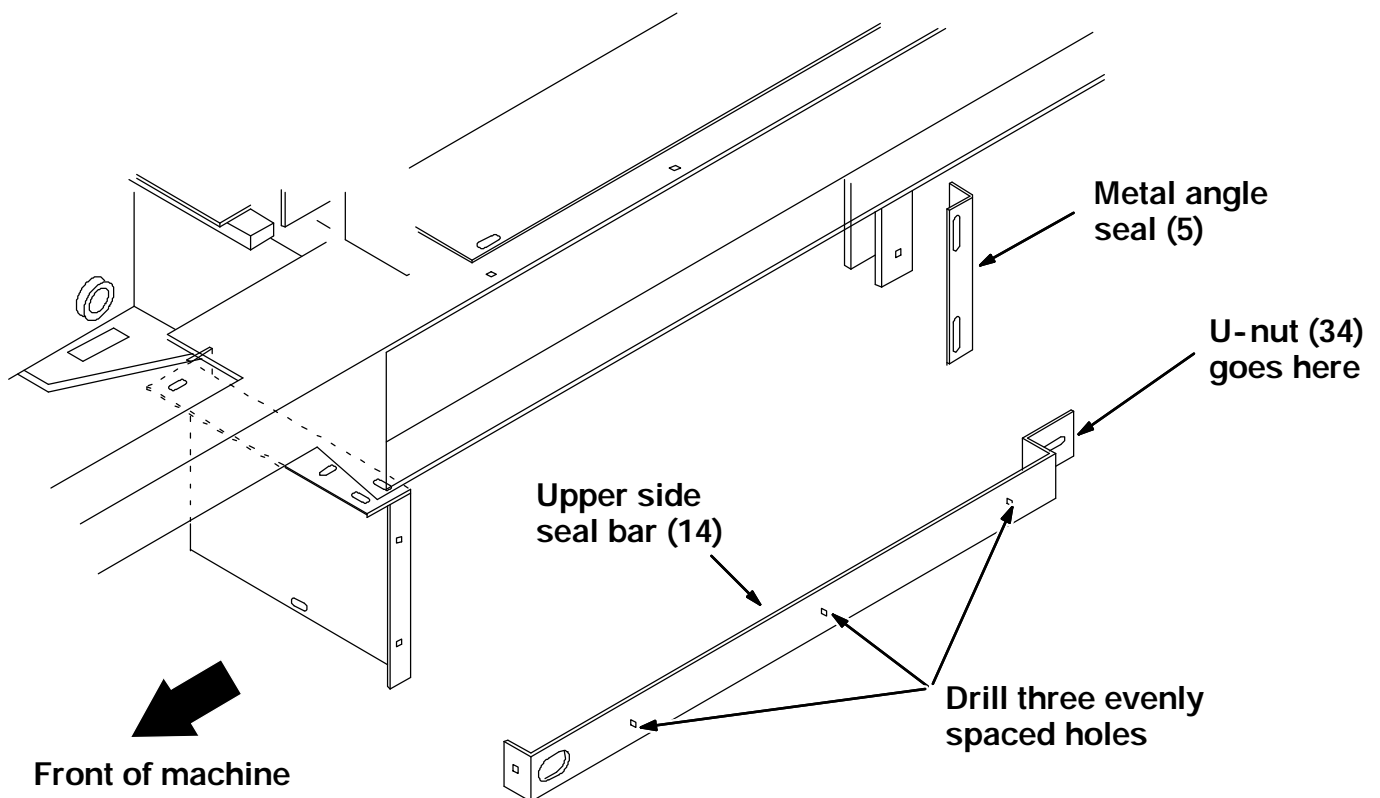


FIG. 8 - Assemble Side Brush Brackets

16. Use one brush door skirt retainer (4) to attach the back end of the side skirt (7) to the machines LH brush door. There should be mounting holes in the front lower side of the door. (Refer to Fig. 6)
17. The left hand side skirt should also be adjusted from 1/8 in. to 1/4 in. off the ground.
18. Drill three evenly spaced holes through the top of the dust control poly side shroud (9) into the LH upper side seal bar (14). Use three hex screws, fender washers, and nyloc nuts in these holes. Tighten the mounting hardware. (Refer to Fig. 8)
19. The side brush top cover is not used on the left side when the machine is equipped with only one side brush. Save the cover for the right side if needed. (Refer to Fig. 6)

INSTALLATION OF SEALS ON MACHINE FRAME:

(Refer to Figure 9)

1. The area around the engine floor plate under the fuel tank filler neck needs to be sealed up. The filter frame gasket material (1) is used to fill any gaps that would allow dust and air to move past the SBDC assembly. Reinstall the engine floor plate under the fuel tank filler neck. (Refer to Fig. 9)

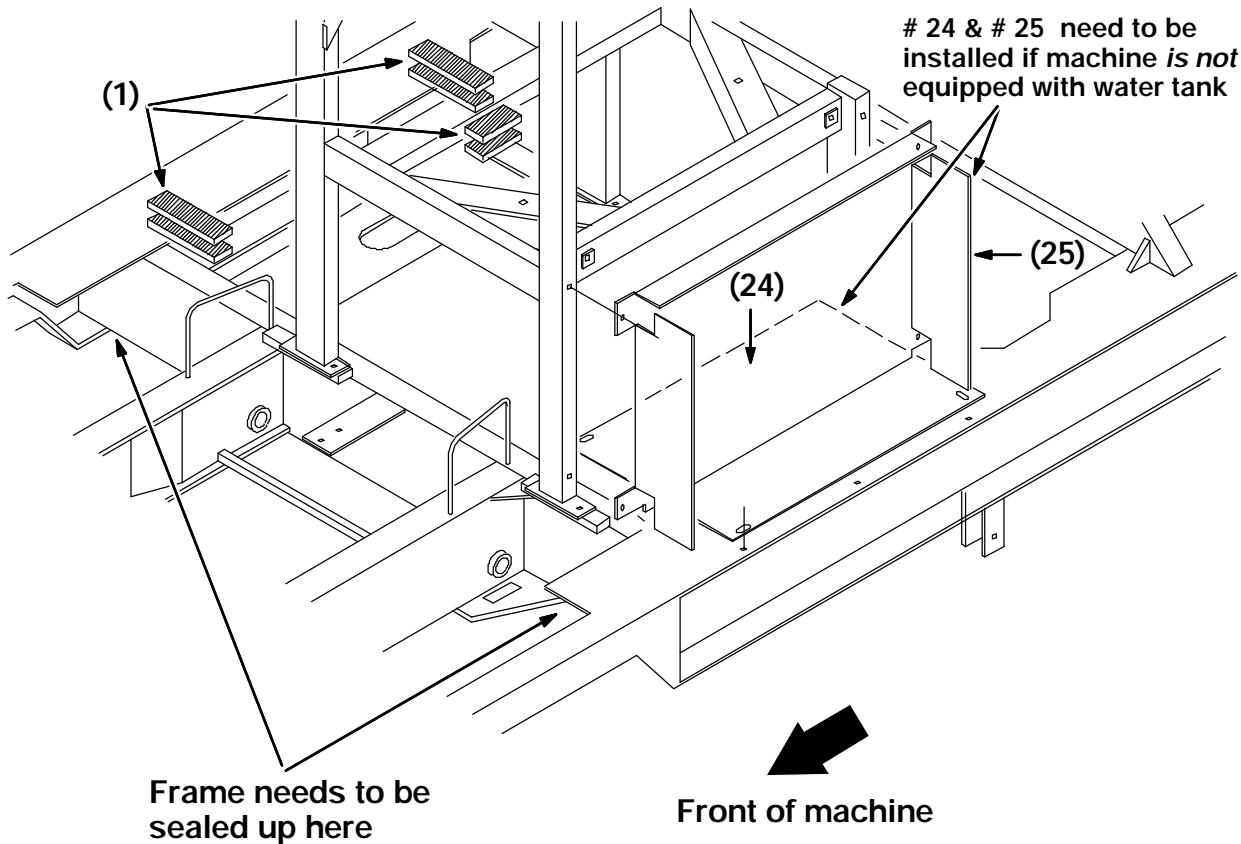


FIG. 9 - Frame Seals

2. The area around the the front of the frame rails needs to be sealed up on both sides of the machine.. The filter frame gasket material (1) is used to fill any gaps that would allow dust and air to move past the SBDC assembly. (Refer to Fig. 9)
3. After all the gaps in the frame have been filled with the filter frame gasket material (1), reinstall both front inner fenders above the drive wheels. (Refer to Fig. 9)

SIDE BRUSH DUST CONTROL SKIRT ADJUSTMENT:

(Refer to Figure 10)

1. The machine must be on smooth, level ground before making a skirt adjustment.
2. The front skirt and baffle assembly should be able to be moved up and down for adjustment at this point. Tighten the hardware in the long slots when the front skirt is adjusted from 1/8 in. to 1/4 in. off the ground evenly across the whole length. (Refer to Fig. 10)

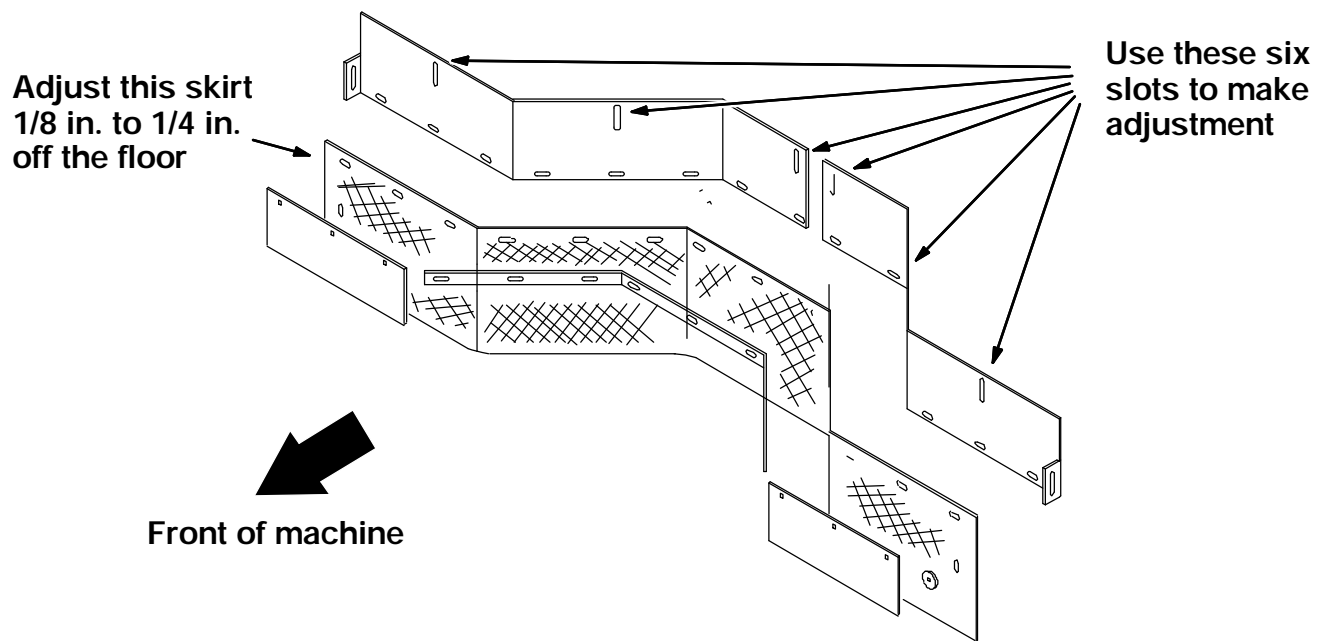


FIG. 10 - Skirt Adjustment

3. The right hand side skirt should also be adjusted from 1/8 in. to 1/4 in. off the ground. Tighten the mounting hardware. (Refer to Fig. 10)
4. Operate the machine in a dusty environment. Check the machine in the area of the seals and SBDC assembly for any signs of dust or air leakage. Add more seal material if necessary. (Refer to Fig. 10)

BILL OF MATERIALS FOR SIDE BRUSH DUST CONTROL KIT 760051 (cont)

Ref.	TENNANT Part No.	Description	Qty.
1	760531	Filter frame gasket	1
2	764056	Seal, 3 in. x 3.12 x 8 in.	1
3	764057	Seal, 1.25 in. x 1.62 in. x 21.62 in.	3
4	764224	Brush door skirt retainer	2
5	764225	Metal angle seal	2
6	764227	Side brush top cover	2
7	764229	Side brush skirt	2
8	764230	Dust control front skirt	1
9	764231	Dust control poly side shroud	2
10	764254	Upper LH panel	1
11	764253	Upper RH panel	1
12	764234	RH front lower skirt baffle	1
13	764235	LH front lower skirt baffle	1
14	764236	Upper side seal bar	2
15	764237	Brush shroud support bracket	4

BILL OF MATERIALS FOR SIDE BRUSH DUST CONTROL KIT 760051

Ref.	TENNANT Part No.	Description	Qty.
16	764238	Front skirt retainer	1
17	764263	Front skirt end retainer (plastic)	2
18	764240	Side skirt poly retainer	4
19	764241	Front triangle baffle	2
20	764244	Front LH support bar	1
21	764245	Front RH support bar	1
22	764256	Side skirt retainer	4
23	764257	Dual lock adhesive, 6.5 ft	1
24	760281	Cover plate (Must be ordered if no H2o system)	1
25	760282	Radiator plate (Must be ordered if no H2o system)	1
26	01684	Flat washer, 1/4 in.	8
27	06943	M6 hex screw, 20mm	6
28	06944	M6 hex screw, 25mm	74
29	06955	M8 hex screw, 35mm	2
30	08708	M6 nyloc nut	44
31	08709	M8 nyloc nut	10
32	08712	M6 nyloc nut, SS	4
33	08716	M6 hex screw, SS	4
34	12271	M6 U-nut	36
35	16931	M8 hex screw, 20mm	2
36	32490	1/4 in. flat washer	60
37	32491	5/16 in. flat washer	2
38	39277	M8 hex screw, 25mm	8
39	41178	Fender washer, 1/4 in.	76
40	763040	Belleville washer, M6	24
41	763041	Belleville washer, M8	2

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