



INSTRUCTION BULLETIN

No. 340104
Machine: 7200
Published: 6-98/01
System: Scrubbing

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.

Installation Instructions for Kit number 223401 – 7200 (28 inch), disk brush scrub head and 223402 – 7200 (28 inch), cylindrical brush scrub head.

SYNOPSIS / PROBLEM:

This kit contains the parts needed to install a cylindrical brush scrub head or disk brush scrub head on the model 7200 scrubber.

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: None

(Estimated time to complete: 1 hours)

INSTALLATION OF DISK BRUSH SCRUB HEAD:

(Refer to FIG. 1 and 2)

1. Start machine.
2. Press the scrubbing switch. When the scrub head is lowered completely, turn the machine off.

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

3. Raise the operator seat support.
4. Disconnect battery connector from the machine batteries.



WARNING: Always disconnect battery cables from machine before working on electrical components.

5. Disconnect scrub head adjustment links. (Refer to FIG. 1)
6. Remove the two clevis pins from the scrub head lift bracket. (Refer to FIG. 1)
7. Disconnect wire harness connections at the scrub brush motors. (Refer to FIG. 1)
8. Disconnect solution hoses from the tee fitting. (Refer to FIG. 1)
9. Jack up the front of the machine and place a jack stand at each of the front corners.

FOR SAFETY: Always use jack stands to prevent machine from rolling. Do not rely on scissors, automotive, or hydraulic jacks which could slip, allowing machine to fall.

10. Slide the scrub head out from either side of the machine.

NOTE: If converting from a 36" head, remove the bumper.

11. Slide the disk brush scrub head under the machine.

12. Install the clevis pins through the frame and actuator. *(Refer to FIG. 2)*
13. Connect wire harness connections. *(Refer to FIG. 2)*
14. Connect solution hoses to the tee fitting. *(Refer to FIG. 2)*
15. Connect the adjustment links. *(Refer to FIG. 2)*
16. Remove the jack stands and lower the machine.
17. Reconnect the battery connector to the machine batteries.
18. Lower and level the scrub head.
19. If converting from a 36" head, install the 28" squeegee. Adjust the rollout.

INSTALLATION OF CYLINDRICAL BRUSH SCRUB HEAD:

(Refer to FIG. 1 and 2)

1. Start machine.
2. Press the scrubbing switch. When the scrub head is lowered completely, turn the machine off.

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

3. Raise the operator seat support.
4. Disconnect battery connector from the machine batteries.



WARNING: Always disconnect battery cables from machine before working on electrical components.

5. Disconnect the scrub head adjustment links. *(Refer to FIG. 2)*
6. Remove the clevis pin from the scrub head lift bracket. *(Refer to FIG. 2)*
7. Disconnect wire harness connectors at the scrub brush motors. *(Refer to FIG. 2)*
8. Disconnect solution hoses from the tee fitting. *(Refer to FIG. 2)*
9. Jack up the front of the machine and place a jack stand at each of the front corners.

FOR SAFETY: Always use jack stands to prevent machine from rolling. Do not rely on scissors, automotive, or hydraulic jacks which could slip, allowing machine to fall.

10. Slide the scrub head out from either side of the machine.

NOTE: If converting from a 36" head, remove the bumper.

11. Slide the cylindrical brush scrub head underneath the machine.
12. Connect the adjustment links. *(Refer to FIG. 1)*
13. Install the clevis pin through the scrub head lift bracket. *(Refer to FIG. 1)*
14. Connect wire harness connections. *(Refer to FIG. 1)*
15. Connect solution hoses to the tee fitting. *(Refer to FIG. 1)*
16. Remove the jack stands and lower the machine.
17. Reconnect the battery connector to the machine batteries.

18. Lower and level the scrub head by checking and adjusting the brush pattern using the two adjustable links or balance the Amp draw to the scrub head motors.
19. If converting from a 36" head, install the 28" squeegee. Adjust the rollout.

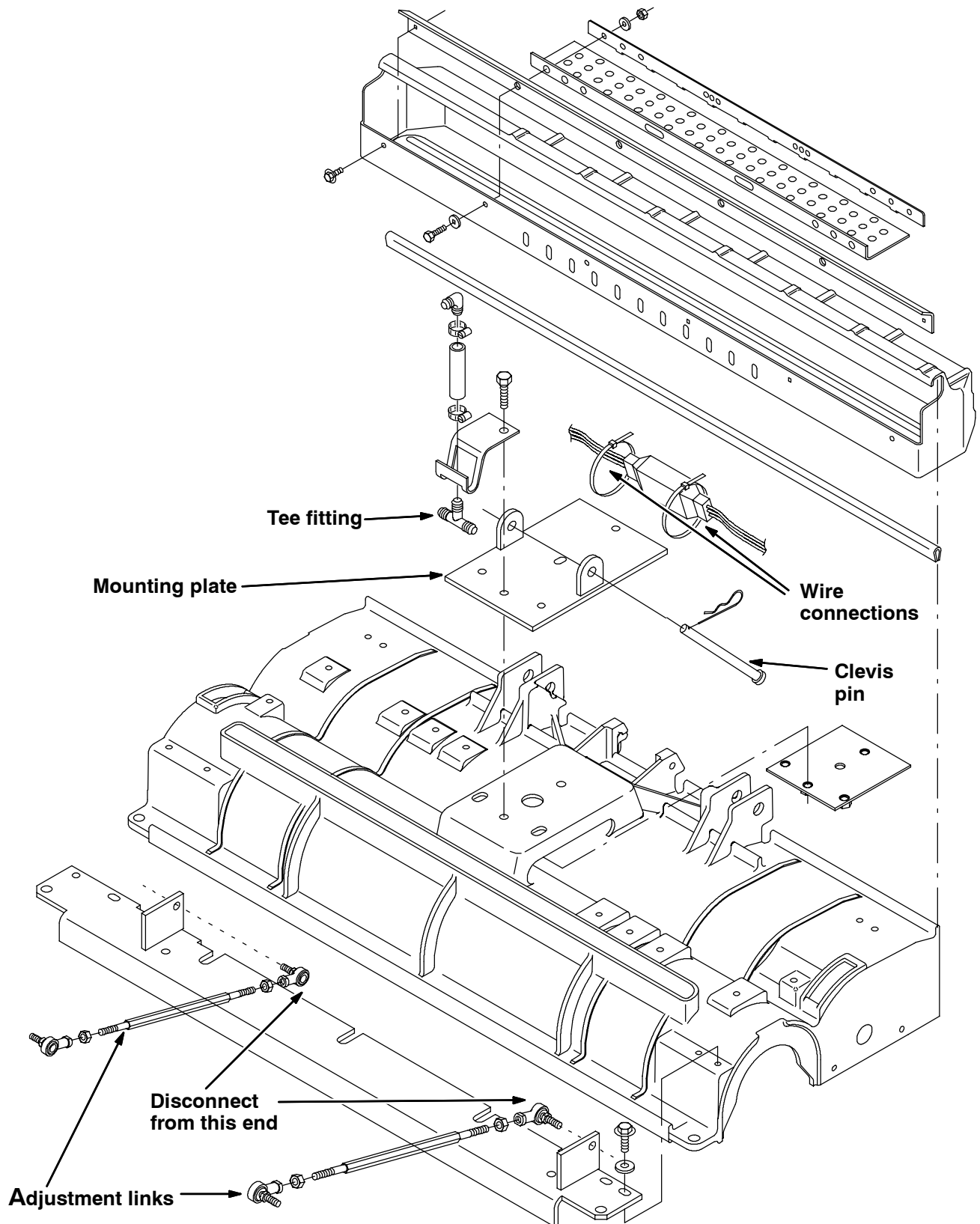


FIG. 1 - Cylindrical Brush Scrub Head Installation

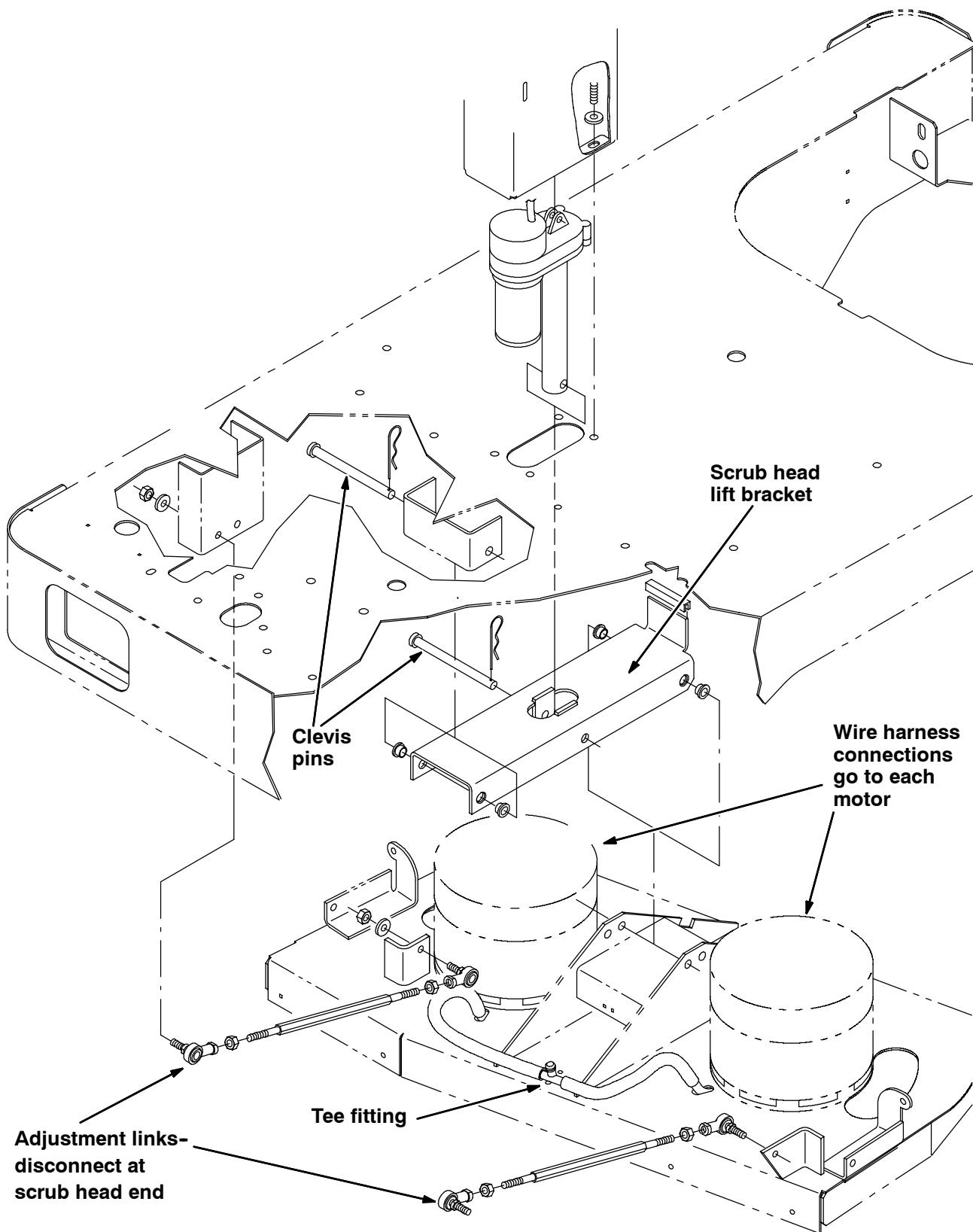


FIG. 2 - Disk Brush Scrub Head Installation

BILL OF MATERIALS FOR DISK BRUSH SCRUB HEAD KIT 223401

Ref.	TENNANT Part No.	Description	Qty.
1	223539	Disk head wldt, 28 in, scr	1
2	223051	Motor, 36 vdc. 0.8 hp, 320 rpm	2
3	42384	Screw, hexss .38 - 16 x 0.62	8
4	01686	Washer, flat 0.38 SS	8
5	10925	Connector, 2 conductor	4
6	24537	Terminal, metripk630 fem 10GA	2
7	223516	Hose, vinyl brd 0.50 ID	2
8	54333	Clamp, wormdrive, 0.31 - 0.88D	4
9	63245-1	Ftg, plastic tee 08BM/ 08BM/ 08BM	1
10	222836	Shunt, assmy. std disk head, 570	1
11	44961	Tie, cable 4.00D max 14.50 lg	6
12	222506	Hub, brush drive	2
13	32124	screw, hex 0.31 - 18 x 1.00 NYLNLOCSS	2
14	01686	Washer, flat 0.38 SS	2
15	41186	Washer, Belleville 0.31 pltd	2
16	223637	Bladeholder wldt, ssqg disk LH	1
17	223489	Bladeholder wldt, ssqg disk RH	1
18	86859	Blade assmy, squeegee side	2
19	39019	Pin, clevis, 0.37 Dia x 0.75 lg	2
20	15047	Spring, extension	2
21	77347	Screw, hexss M10 x 1.5	2
22	64425	Washer, .656B 1.25D 0.06	4
23	25709	Arm, lift squeegee	2
24	71607	Bearing. .625B x 0.38	2
25	71608	Sleeve, .406B 0.63D 0.52SS	2
26	01686	Washer, flat 0.38SS	2
27	08714	Nut, HXLOCNYLYN M10 x 1.5 REG SS	2
28	79506	Screw, flat M8 x 1.25 30 SS18-8	2
29	86860	Bearing-Thrusto .50B 0.87D 0.06W	4
30	64173	Bearing, 0.50 x 0.38	2
31	08713	Nut, HXLOCNYLYN M8 x 1.25 REG SS	2
32	223609	Sleeve, .318B .496D .515L SS	2
33	01685	Washer, flat 0.31 SS	2
34	86759	Retainer, squeegee	2
35	86865	Guide, side squeegee	2
36	69582	Pin, clevis 0.31 DIA x 1.00 LG	2
37	44906	Pin, haircotter 0.69D .092 wire	2
38	223612	Skirt, .12T03 0.75W 19.9L 3/31S	1
39	223618	Skirt, .12T 3.75W 30.25L 5/.31	1
40	223623	Strip, retainer, skirt, L front	1

Ref.	TENNANT Part No.	Description	Qty.
41	223669	Strip, retainer, .12T 1.0W 19.0	2
42	15678	Screw, HEXSSM 6 x 1.0 16	8
43	01684	Washer, flat 0.25 SS	8
44	08712	Nut, HXLOCNYLYN, M6 x 1.0 REG SS	8
45	223666	Channel wldt, tool lift, 28 in	1
46	59668	Pin, clevis, 0.5. DIA x 4.50 LG	1
47	44906	Pin, haircotter .69D .092 wire	1
48	369343	Plate, side squeegee	2
49	16236	Washer, .26B .72D .06 NYLON	2
50	08716	Screw, HEXSSM 6 x 1.0 20	2
51	01684	Washer, flat 0.25 SS	2
52	08712	Nut, HXLOCNYLYN, M6 x 1.0 REG SS	2
53	222586	Carton-Fol/P/N-24 . 0X42 . 0X28 . 0	1
54	374016	Crate ramp - 5700 head kit	1
55	222809	cable, 9 in bundle DIA	2

BILL OF MATERIALS FOR CYLINDRICAL BRUSH SCRUB HEAD KIT 223402

Ref.	TENNANT Part No.	Description	Qty.
1	223571	Housing, cyl, mach 28	1
2	222256	Motor, 0.75 hp, 36V, 1700 rpm	2
3	20536-2	Washer, .467B 1.19D .03 NYLON	2
4	223564	Bracket, mtg motor	2
5	76099	Screw, HXFMGM 8 x 1.25 25 PLTD	4
6	74077	Screw, flat M8 x 1.25 20	2
7	09740	Screw, HEXSSM 8 x 1.25 20	2
8	01685	Washer, flat .31SS	10
9	08713	Nut, HXLOCNYLYN M 8 x 1.25 25 REG SS	4
10	76099	Screw, HXFMGM 8 x 1.25 25 25 PLTD	2
11	222835	Shunt assmy, cyl head, 5700 ele	1
12	49263	Tie, cable 3.00D MAX 3.34 LG	4
13	222202	Sprocket, drive	2
14	00954	Key, square 0.12 0.12 01.00 LG	2
15	222818	Screw, set 8-32 x 0.25 NYLON LOC	4
16	222201	Belt, drive, cogged	2
17	223560	Guard, belt RH	1
18	223561	Guard, belt LH	1
19	223563	Shield, belt, LH	1
20	06942	Screw, hex M6 x 1.0 16	4
21	01684	Washer, flat 0.25 SS	4
22	222176	Shaft, drive plug	2
23	32691	Adhesive, thread 242BLU 50.0 ML	1
24	222062	Plug, brush drive	2
25	41360	Bearing, ball 0/59B 1.26D 0.35W	4
26	01516	Ring, retain, ex 0.590D, basic	2
27	223556	Bracket, shield	2
28	223569	Gasket, shield	2
29	223568	Deflector, water	2
30	12459	Screw, HXFMGM, 6 x 1.0 20 PLTD	4
31	222820	Seal, ring	2
32	222208	Door, brush	2
33	222177	Shaft, idler plug	2
34	04373	Screw, flat M10 x 1.5 20	2
35	222184	Pin, roll .090DO .25L, .094/.097	2
36	379202	Plug, brush idler	2
37	01516	Ring, retain, ex 0.59OD, basic	2
38	222209	Spring, door	2
39	223670	Angle, wldt, mtg 28 in cyl screw	1
40	76099	Screw, HXFMGM 8 x 1.25 25 PLTD	4

Ref.	TENNANT Part No.	Description	Qty.
41	01685	Washer, flat 0.31 SS	2
42	09010	Screw, HEXSSM 8 x 1.25 25	4
43	08713	Nut, HXLOCNYLYN M8 x 1.25 REG SS	4
44	01685	Washer, flat 0.31 SS	8
45	222167	Tray, debris, 28	1
46	222669	Skirt, debris tray	1
47	222670	Strip, debris tray	1
48	222203	Lip, debris tray, 28 in	1
49	74455	Screw, HXFMGM 6 x 1.0 12 PLTD	2
50	09007	Screw, HXFMGM 6 x 1.0 25	4
51	01684	Washer, flat 0.25 SS	8
52	08708	Nut, HXLOCNYLYN M8 x 1.0	4
53	63245-1	Fitting, plastic tee 08BM / 08BM / 08BM	1
54	49263	Tie, cable 3.00D MAX 3.34LG	4
55	222523	Bracket, Hose guide	1
56	223442	Plate, wldt, mtg, tool, scr	1
57	223412	Plate, mtg, tool lift, scr	1
58	06955	Screw, HEX M8 x 1.25 35	4
59	223413	Wldt, RH side sqge 28 in cyl	1
60	223304	Frame, wldt, sqge, LH cyl	1
61	86759	Retainer, squeegee	2
62	69582	Pin, clevis, 0.31 DIA x 1.00 LG	2
63	44906	Pin, haircutter .69D .092WIRE	2
64	86865	Guide, side squeegee	2
65	41619	Washer, flat 0.50SS	4
66	223293	Angle, Sqge mtg	2
67	76099	Screw, HXFMGM, 8 x 1.25 25 PLTD	4
68	01685	Washer, flat 0.31 SS	4
69	44906	Pin, haircutter 0.69D 0.092WIRE	2
70	223589	Bar, wldt, sqge LH mtg	1
71	223654	Frame, wldt, side sqge, RH	1
72	45280	Screw, HEX 0.50-13 x 5.50 G5 PLTD	2
73	41619	Washer, flat 0.50 SS	6
74	69582	Pin, clevis, 0.31DIA x 1.00LG	2
75	39019	Pin, clevis 0.37DIA x 0.75LG	2
76	15047	Spring, extension	2
77	25709	Arm, lift, sqge	2
78	360347	Screw, flat M10 x 1.5 24 SS18-8	2
79	64425	Washer, .656B 1.25D .06	2
80	71607	Bearing, .625B x .38	2

Ref.	TENNANT Part No.	Description	Qty.
81	71608	Sleeve, .406B .63D .52SS	2
82	01686	Washer, flat .38SS	2
83	08714	Nut, HXLOCNYLYN M10 x 1.5 REG SS	2
84	74077	Screw, flat M8 x 1.25 25 SS18-8	2
85	86860	Bearing-Thrusto .50B 0.87D .06W	2
86	64173	Bearing, .50X.38	2
87	223609	Sleeve, .318B .496D .515L SS	2
88	01685	Washer, flat 0.31SS	2
89	08713	Nut, HXLOCNYLYN M8 x 1.25 REG SS	2
90	374006	Channel, .18 x .50 x .03 x29.00LG	1
91	222586	Carton, fol/P/N-24.0 x 42.0 x 28.0	1
92	222687	Block, wood	2
93	374016	Crate, ramp - 5700 Head Kit	1
94	19179	Crate blk, rear whl-255 line	4

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