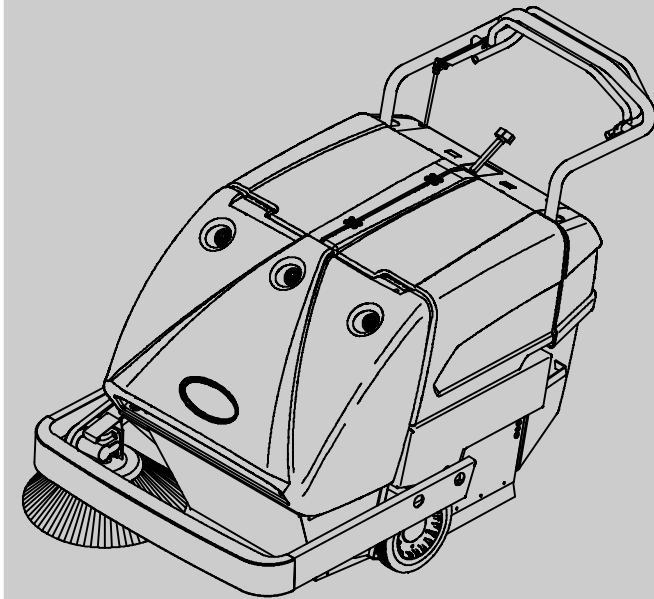
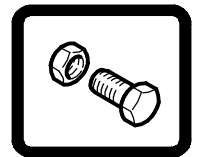




S10

Sweeper Parts Manual



North America / International

www.tennantco.com

331581
Rev. 00 (06-2007)



Ref	Part No.	Serial Number	Description	Qty.
1	82681	(000000 –)	Bracket Wldt, Lpg Mount	1
2	63810	(000000 –)	Latch Assy, Lpg Tank Mtg, W/Nut	4
3	51839	(000000 –)	Nut Adjustable, Lpg Tank Mtg	2
4	49263	(000000 –)	Tie, Cable	3
5	82556	(000000 – 001039)	Bracket, Vaporizer	1
6	54930	(000000 –)	Vaporizer, LPG	1

HOW TO ORDER PARTS - See diagram above

Only use TENNANT Company supplied or equivalent parts. Parts and supplies may be ordered online, by phone, by fax or by mail.

Follow the steps below to ensure prompt delivery.

1. **(A)** Identify the machine model.
2. **(B)** Identify the machine serial number from the data plate.
3. **(C)** Ensure the proper serial number is used from the parts list.
4. Identify the part number and quantity.
Do not order by page or reference numbers.
5. Provide your name, company name, customer ID number, billing and shipping address, phone number and purchase order number.
6. Provide detail shipping instructions.

- (D)** ▽ - Identifies an assembly
▲ - Identifies parts included in assembly

Please fill out at time of installation for future reference.

Model No. - _____

Serial No. - _____

Machine Options - _____

Sales Rep. - _____

Sales Rep. phone no. - _____

Customer ID Number - _____

Installation Date - _____

Tennant Company

PO Box 1452

Minneapolis, MN 55440

Phone: (800) 553-8033 or (763) 513-2850

www.tennantco.com

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Specifications and parts are subject to change without notice.

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GENERAL RECOMMENDED MAINTENANCE

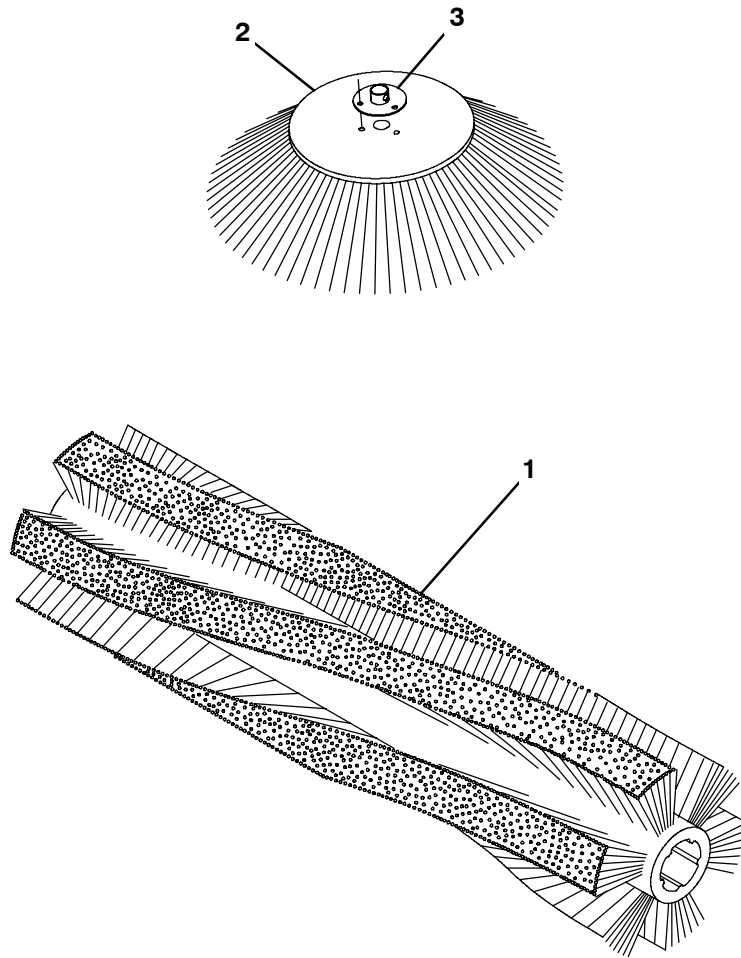
General Recommended Maintenance Items

Ref.	Part No.	Serial Number	Description	Qty.
	830013	(000000-	) Assy, Lip Pan	1
	28072	(000000-	) Skirt, Neo, .12, 03.00w 12.80l, 04/ SI	2
	830011	(000000-	) Retainer, Skirt Lh, Side	1
	830012	(000000-	) Retainer, Skirt, Rh, Side	1
	830010	(000000-	) Retainer	1
	28277-1	(000000-	) Seal, Rbr, Open, 0.19, 0.38w 19.2l	1
	28277-2	(000000-	) Seal, Rbr, Open, 0.19, 0.38w 09.6l	1
	830013	(000000-	) Assy, Lip Pan	1
	830223	(000000-	) Retainer, Lip	1
	01119	(000000-	) Belt, Flat, 1.25w X 33.50	1
	01120	(000000-	) Belt, Flat, 1.25w X 38.80	1
	28714	(000000-	) Belt, V, 34.5l, Spcl [3l]	1
	61411	(000000-	) Chain, Rlr, #41, 075 Pitches	1
	28272	(000000-	) Link, Chain, Rlr, #41	1
	28712	(000000-	) Belt, V, 74.0l [3l]	1
	01064	(000000-	) Seal, Rbr, Open, 0.50, 0.75w 92.0l Adh	1
	08157	(000000-	) Seal, Lip, 90, 1.3w . Grip 054.0l	1
	1037206	(000000-	) Filter, Panl, Dust, 2.2 X 16.0 X 26.0	1
	47069	(000000-	) Seal, Rbr, Clsd, 1.00, 4.9d 03.9h	1
	60470	(000000-	) Belt, V, 19.0l, Cogged [4l]	1
	16411	(000000-	) Paint, Airdry, Off-White, 12oz	1
	16412	(000000-	) Paint, Airdry, Teal, 12oz, Solid	1
	377540	(000000-	) Paint, Airdry, Blk, 12oz	1
	377538	(000000-	) Paint, Airdry, Gray, 12oz	1
	377537	(000000-	) Paint, Airdry, Iron Gray, 12oz	1
	28168	(000000-	) Belt, V	1

SECTION 2

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Fig. 1 - Brushes Group, Replacement



354573- S10

Ref.	Part No.	Serial Number	Description	Qty.
1	28002	(000000-	) Brush, Swp, 26l, 6 Dr, Umx Wire	1
1	28006	(000000-	) Brush, Swp, 26l, 6 Dr, Umx	1
1	28006N	(000000-	) Brush, Swp, 26l, 6 Dr, Nylon	1
1	28007P	(000000-	) Brush, Swp, 26l, 6 Dr, Polypropylene	1
1	28172	(000000-	) Brush, Swp, 26l, 18 Sr, Umx	1
1	28235	(000000-	) Brush, Swp, 26l, 18 Sr, Umx Wire	1
▽	2	28096P	(000000-) Brush Assy, Disk, Swp, 15.0 D, Polypropylene	1
▲	3	45154	(000000-) Hub, Drive, Brush, Side, 0.6b 01.75 Bc	1
▽	2	28096N	(000000-) Brush Assy, Disk, Swp, 15.0 D, Nyl	1
▲	3	45154	(000000-) Hub, Drive, Brush, Side, 0.6b 01.75 Bc	1

Fig. 2 - Main Frame Group

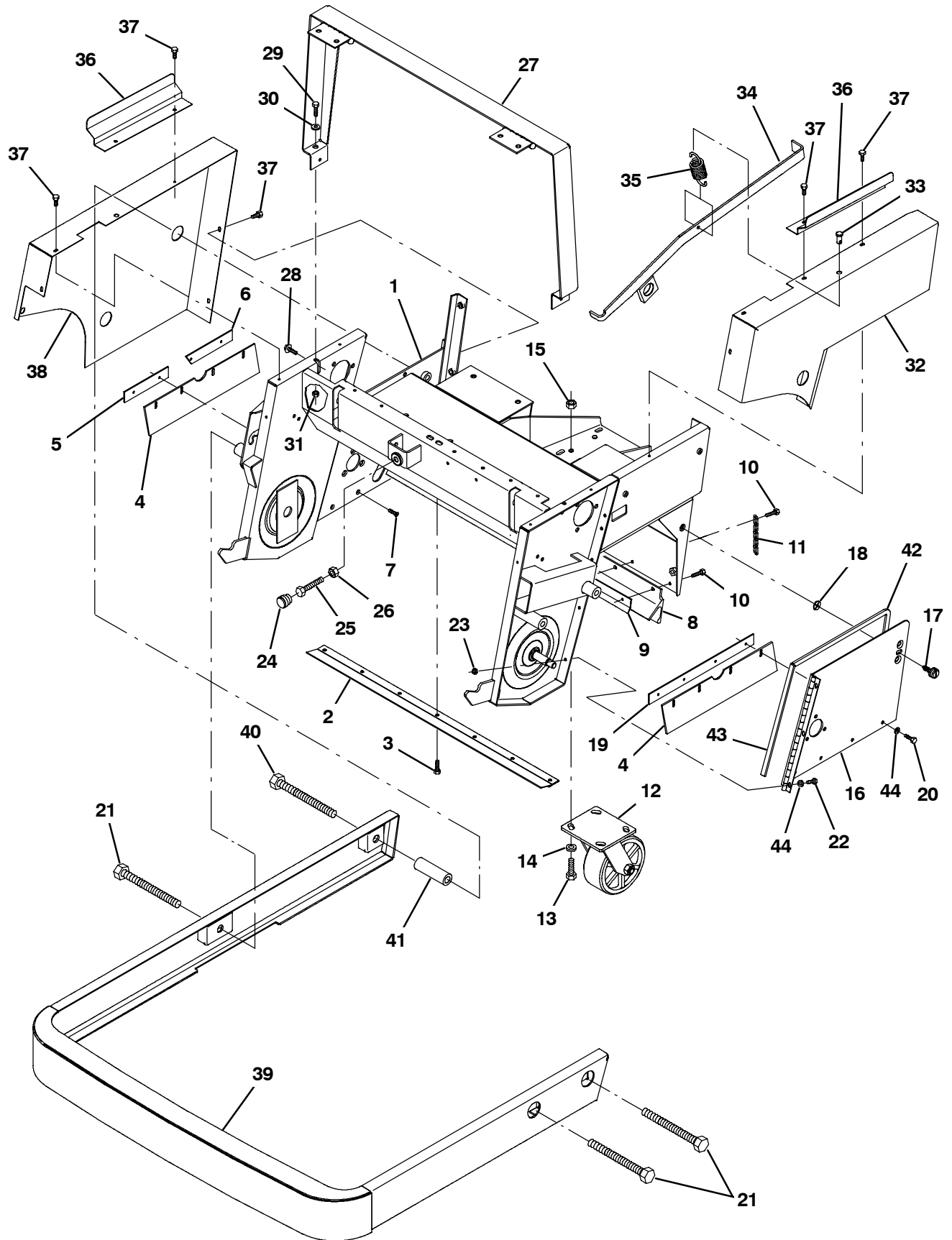


Fig. 2 - Main Frame Group

Ref.	Part No.	Serial Number	Description	Qty.
1	830420	(000000-	) Frame Wldt, Main	1
2	830013	(000000-	) Assy, Lip Pan	1
3	223198	(000000-	) Screw, Hex, M5 X 0.8 X 10, Fmg	7
4	28072	(000000-	) Skirt, Neo, .12, 03.00w 12.80l, 04/ SI	2
5	830011	(000000-	) Retainer, Skirt Lh, Side	1
6	830012	(000000-	) Retainer, Skirt, Rh, Side	1
7	360826	(000000-	) Screw, Flt, M5 X 0.8 X 12, 10.9	4
8	08057	(000000-	) Skirt, Neo, .19, 02.88w 27.38l, 07/ SI	1
9	830029	(000000-	) Retainer, Rear Seal	1
10	24592	(000000-	) Screw, Hex, #10-24 X 0.75, Fmg	7
11	28499	(000000-	) Chain, Sash, #35, 03.5l 06 Link	1
12	222467	(000000-	) Caster, Swivel, 5.0d 2.0w, 4hole, Gray	1
13	09010	(000000-	) Screw, Hex, M8 X 1.25 X 25, Ss	4
14	32491	(000000-	) Washer, Flat, 0.31, Std	4
15	07791	(000000-	) Nut, Hex, Flng, M8 X 1.25	4
16	830006	(000000-	) Assy, Door [Mantis]	1
17	29982	(000000-	) Knob Assy, Rnd, 1.38d .31-06 1.0l, Metal	1
18	08156	(000000-	) Retainer, Screw	1
19	830010	(000000-	) Retainer	1
20	09738	(000000-	) Screw, Hex, M5 X 0.8 X 12, Ss	4
21	41345	(000000-	) Screw, Hex, M12 X 1.75 X 25, 8.8	3
22	09738	(000000-	) Screw, Hex, M5 X 0.8 X 12, Ss	3
23	06549	(000000-	) Nut, Hex, Lock, M5 X 0.80, NI	3
24	01318	(000000-	) Tip, Rbr, 0.94d 0.59b 0.88l	1
25	763121	(000000-	) Screw, Hex, M10 X 1.5 X 60, FI	1
26	39312	(000000-	) Nut, Hex, Std, M10 X 1.50	1
27	830034	(000000-	) Lintel Weldmt	1
28	361339	(000000-	) Screw, Hex, M6 X 1.0 X 16, Fmg	2
29	06942	(000000-	) Screw, Hex, M6 X 1.0 X 16, 8.8	2
30	01684	(000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	2
31	07790	(000000-	) Nut, Hex, Flng, M6 X 1.00	2
32	830030	(000000-	) Cover, Wldt Lh	1
33	41305	(000000-	) Pin, Clevis, 0.37d X 0.75l	1
34	830031	(000000-	) Lever Wldt, Brake	1
35	09480	(000000-	) Spring, Extn, 1.10od 0.15wir 03.2l	1
36	830072	(000000-	) Angle, Stop	2
37	01708	(000000-	) Screw, Hex, #10-24 X 0.50, Tcut	12
38	830000	(000000-	) Cover, Right Side	1
39	1036763	(000000-	) Bumper Wldt	1
40	06976	(000000-	) Screw, Hex, M12 X 1.75 X 100, 8.8	3
41	830027	(000000-	) Tube	1
42	28277-1	(000000-	) Seal, Rbr, Open, 0.19, 0.38w 19.2l	1
43	28277-2	(000000-	) Seal, Rbr, Open, 0.19, 0.38w 09.6l	1
44	01683	(000000-	) Washer, Flat, 0.22b 0.50d .05, Ss [#10]	6

Fig. 3 - Motor and Sheaves Group

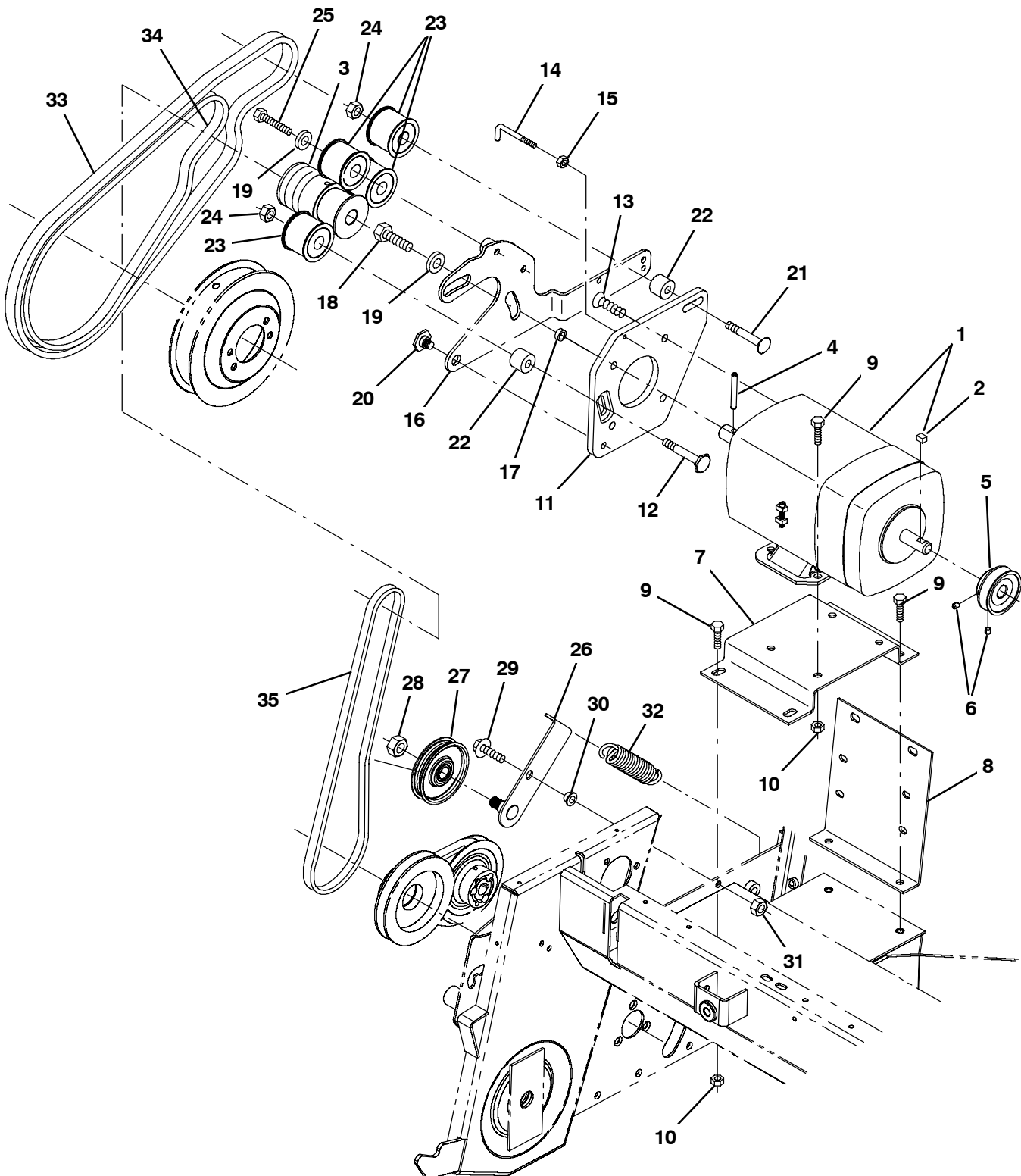


Fig. 3 - Motor and Sheaves Group

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	01192	(000000-	) Motor, Ele, 24vdc 2000rpm 1.00hp 40.0a	1
▲	2	00500-4	(000000-	) Key, Woodruff, 0.12 0.50 [Asa#0404]	1
	3	830059	(000000-	) Sheave, Combination	1
	4	11398	(000000-	) Pin, Roll, .250d X 2.00l, .250/.256	1
	5	1025304	(000000-	) Sheave, 01grv, 1.8/2.1pd 0.63b [3l/4l]	1
	6	46820	(000000-	) Screw, Set, .31-18 X 0.38, NI	2
	7	830093	(000000-	) Bracket, Motor Mount	1
	8	830099	(000000-	) Support, Battery Tray	1
	9	16931	(000000-	) Screw, Hex, M8 X 1.25 X 20, 8.8	8
	10	07791	(000000-	) Nut, Hex, Flng, M8 X 1.25	6
	11	1038292	(000000-	) Plate, Directional, Pivot, Machined	1
	12	30205	(000000-	) Screw, Level .38-16 X 2.50	1
	13	48996	(000000-	) Screw, Flt, .38-16 X 0.75, AI	2
	14	830060	(000000-	) Retainer, Belt	1
	15	07785	(000000-	) Nut, Hex, Std, M6 X 1.00, A2, Ss	1
	16	1037475	(000000-	) Lever Wldt, Direction Control	1
	17	830062	(000000-	) Sleeve	2
	18	21197	(000000-	) Screw, Hex, .38-16 X 1.00, G5	2
	19	32491	(000000-	) Washer, Flat, 0.31, Std	4
	20	01112	(000000-	) Bolt, .38-16, Pivot, Dir Cntrl	1
	21	01150	(000000-	) Bolt, Carriage, .38-16 X 2.50, 5	1
	22	830055	(000000-	) Spacer, Directional Plate	2
	23	01199	(000000-	) Sheave, Flat, 1.8d 1.38w 0.67b	4
	24	50902	(000000-	) Nut, Hex, Lock, .38-16, NI	2
	25	21198	(000000-	) Screw, Hex, .38-16 X 1.25, G5	2
	26	830153	(000000-	) Arm, Shaft Assy, Idler	1
	27	830156	(000000-	) Pulley, Assy	1
	28	08711	(000000-	) Nut, Hex, Lock, M12 X 1.75, NI	1
	29	361896	(000000-	) Screw, Hex, M8 X 1.25 X 20, Flng	1
	30	830154	(000000-	) Retainer	1
	31	08709	(000000-	) Nut, Hex, Lock, M8 X 1.25, NI	1
	32	26212	(000000-	) Spring, Extn, 0.62od 0.07wir 04.0l	1
	33	01119	(000000-	) Belt, Flat, 1.25w X 33.50	1
	34	01120	(000000-	) Belt, Flat, 1.25w X 38.80	1
	35	28714	(000000-	) Belt, V, 34.5l, Spcl [3l]	1

Fig. 4 - Wheel Group, Drive

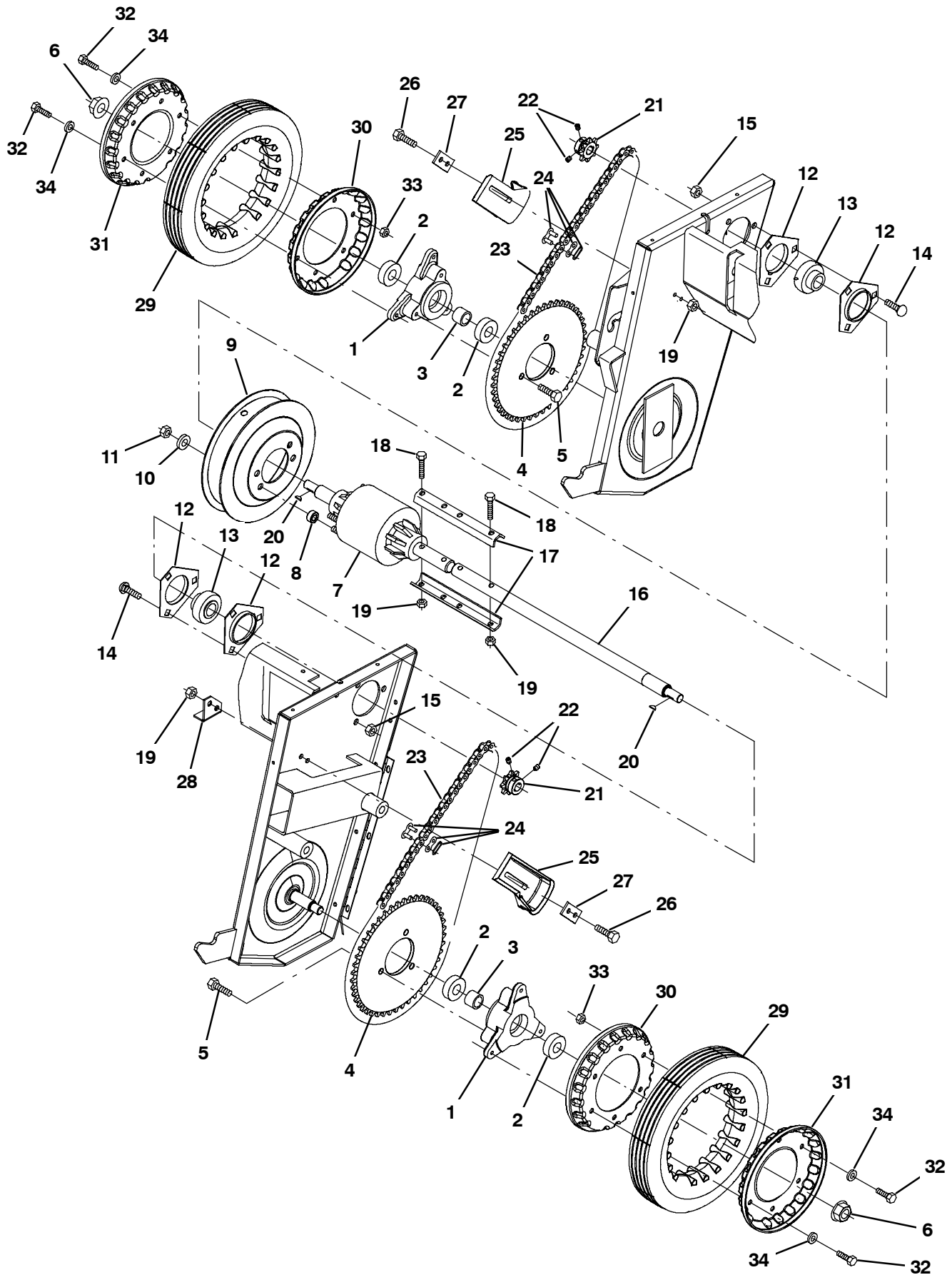


Fig. 4 - Wheel Group, Drive

Ref.	Part No.	Serial Number	Description	Qty.
1	830206	(000000-	) Hub, Wheel, Machined	2
2	830350	(000000-	) Bearing, Ball	4
3	830207	(000000-	) Sleeve	2
4	28865	(000000-	) Sprocket, #41, 45tooth, 2.250b	2
5	361339	(000000-	) Screw, Hex, M6 X 1.0 X 16, Fmg	6
6	08711	(000000-	) Nut, Hex, Lock, M12 X 1.75, NI	2
7	61290	(000000-	) Differential	1
8	830214	(000000-	) Sleeve	4
9	30147	(000000-	) Sheave, Flat, 6.8d 1.42w 2.12b	1
10	39349	(000000-	) Washer, Flat, 0.31, Sae	4
11	01760	(000000-	) Nut, Hex, Lock, .31-18, NI, Thin	4
12	51137	(000000-	) Flange, Brg, 1.8id 3h	4
13	25887	(000000-	) Bearing, W/ Collar, 0.75b 1.85d 1.06w	2
14	24597	(000000-	) Bolt, Carriage, .31-18 X 0.75	6
15	32983	(000000-	) Nut, Hex, Lock, .31-18, NI	6
16	830196	(000000-	) Countershaft	1
17	830210	(000000-	) Coupling, Half	2
18	06946	(000000-	) Screw, Hex, M6 X 1.0 X 35, 8.8	4
19	08708	(000000-	) Nut, Hex, Lock, M6 X 1.00, NI	8
20	00500-1	(000000-	) Key, Woodruff, 0.09 0.50 [Asa#0304]	2
21	30174	(000000-	) Sprocket, #41, 08tooth, 0.50b	2
22	57496	(000000-	) Screw, Set, .25-20 X 0.31, NI	4
23	61411	(000000-	) Chain, Rlr, #41, 075 Pitches	2
24	28272	(000000-	) Link, Chain, Rlr, #41	2
25	08142	(000000-	) Guide, Chain, Drive, Wheel	2
26	06944	(000000-	) Screw, Hex, M6 X 1.0 X 25, 8.8	4
27	830491	(000000-	) Plate, Chain Guide	2
28	830230	(000000-	) Angle, Stop	1
29	28546	(000000-	) Tire, 10.0x2.00 [Ehs]	2
30	830197	(000000-	) Rim, Half, 06.5 X 0.50 4.5bc/6bolt Inner	2
31	830205	(000000-	) Rim, Half, 06.5 X 0.50 4.5bc/6bolt Outer	2
32	11329	(000000-	) Screw, Hex, M6 X 1.0 X 16, Ss, NI	12
33	08708	(000000-	) Nut, Hex, Lock, M6 X 1.00, NI	6
34	01684	(000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	12

Fig. 5 - Main Brush Drive Group

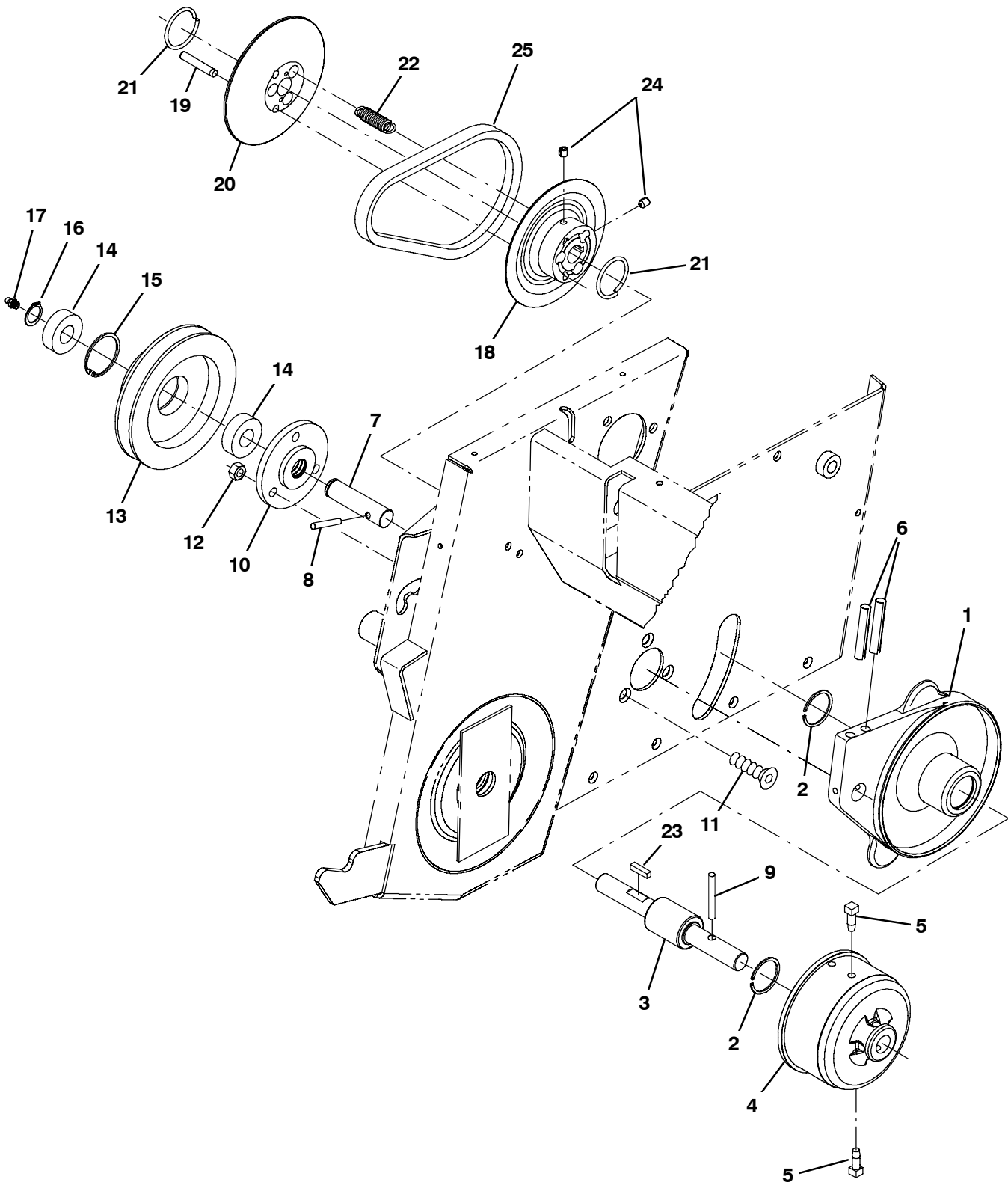


Fig. 5 - Main Brush Drive Group

Ref.	Part No.	Serial Number	Description	Qty.
1	830345	(000000-	) Arm, Drive, Brush, Machining	1
2	23217	(000000-	) Ring, Retaining, Int, 1.18d, [Inverted]	2
3	28867	(000000-	) Bearing, W/ Shaft, 1.18d 6.3l 0.63	1
4	830342	(000000-	) Plug, Drive, Brush	1
5	830343	(000000-	) Pin	4
6	20050	(000000-	) Pin, Roll, .312d X 1.87l, .312/.318	2
7	830149	(000000-	) Shaft, Long	1
8	26103	(000000-	) Pin, Roll, .187d X 1.25l, .187/.192	1
9	26239	(000000-	) Pin, Roll, .250d X 1.25l, .250/.256	1
10	830135	(000000-	) Bushing	1
11	1016421	(000000-	) Screw, Flt, M6 X 1.0 X 20, Ss	3
12	08708	(000000-	) Nut, Hex, Lock, M6 X 1.00, NI	3
13	830346	(000000-	) Sheave, Idler, Brush, Drive, Machining	1
14	830350	(000000-	) Bearing, Ball	2
15	01513	(000000-	) Ring, Retaining, Int, 1.38d, Basic	1
16	18136	(000000-	) Ring, Retaining, Ext, 0.62d, Basic	1
17	830132	(000000-	) Fitting, Grease, Str 6mm	1
18	830163	(000000-	) Sheave Half, Inner, Machining	1
19	18276	(000000-	) Pin, Dowel, 0.2502d X 1.50l	2
20	830353	(000000-	) Sheave, Half, Outer	1
21	28388	(000000-	) Retainer	2
22	28387	(000000-	) Spring, Extn, 0.41od 0.07wir 01.6l	3
23	00911	(000000-	) Key, Sq, 0.19 X 0.19, 0.75l	1
24	09162	(000000-	) Screw, Set, M6 X 1.0 X 8, NI	2
25	28168	(000000-	) Belt, V [A-16, Hy-T]	1

Fig. 6 - Main Brush Idler Group

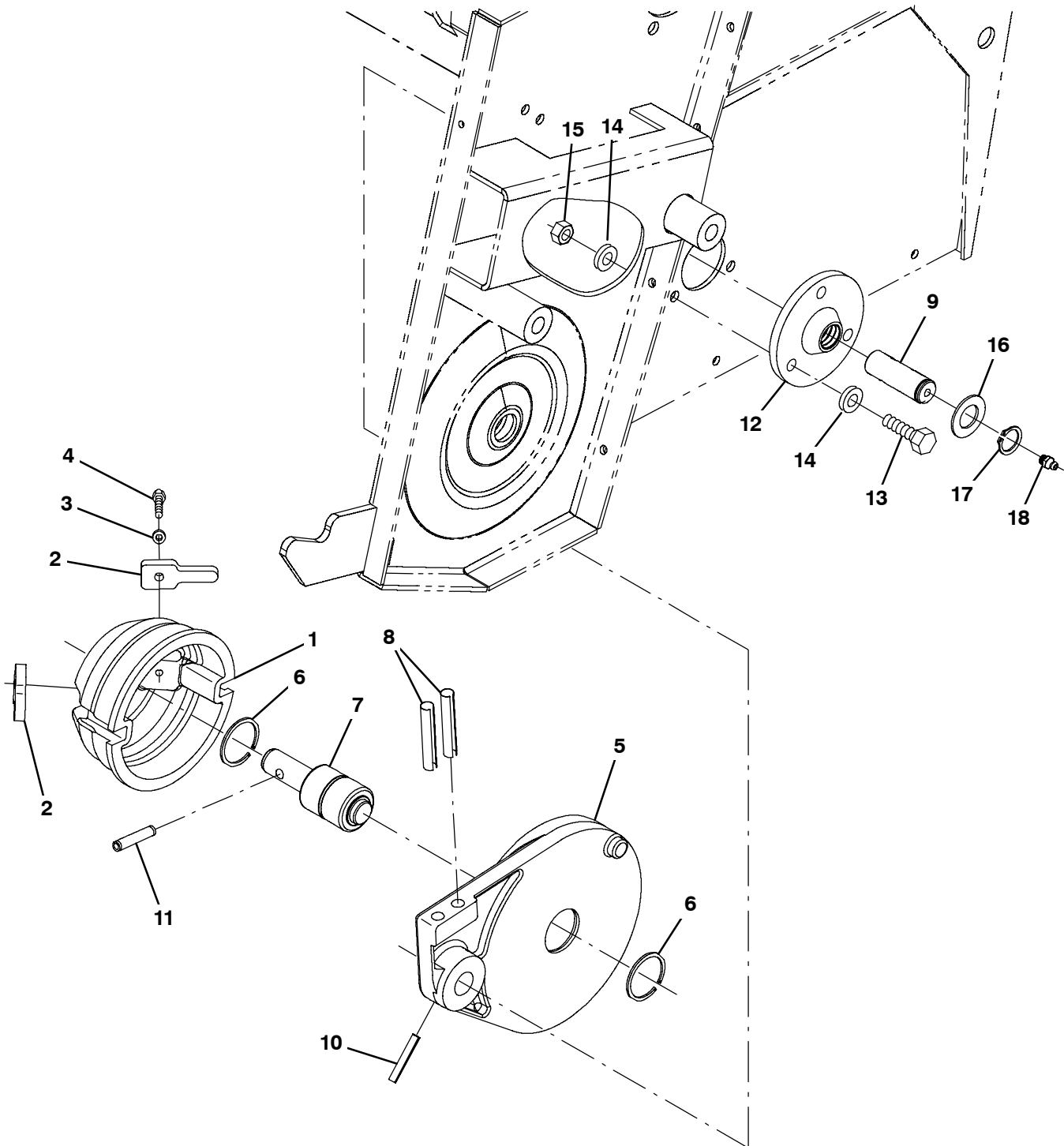


Fig. 6 - Main Brush Idler Group

Ref.	Part No.	Serial Number	Description	Qty.
1	830142	(000000-	) Plug, Idler, Brush, Machining	1
2	28852	(000000-	) Finger	2
3	19066	(000000-	) Washer, Flat, 10	2
4	12312	(000000-	) Screw, Hex, M5 X 0.8 X 12, 8.8	2
5	830137	(000000-	) Arm	1
6	23217	(000000-	) Ring, Retaining, Int, 1.18d, [Inverted]	2
7	28868	(000000-	) Bearing, W/ Shaft, 1.18d 3.3l 0.63	1
8	20050	(000000-	) Pin, Roll, .312d X 1.87l, .312/.318	2
9	830136	(000000-	) Shaft, Short	1
10	26103	(000000-	) Pin, Roll, .187d X 1.25l, .187/.192	1
11	26239	(000000-	) Pin, Roll, .250d X 1.25l, .250/.256	1
12	830135	(000000-	) Bushing	1
13	06943	(000000-	) Screw, Hex, M6 X 1.0 X 20, 8.8	3
14	01684	(000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	6
15	08708	(000000-	) Nut, Hex, Lock, M6 X 1.00, NI	3
16	28862	(000000-	) Washer, Thrust, 0.63b 1.12d 0.06[Toring]	1
17	18136	(000000-	) Ring, Retaining, Ext, 0.62d, Basic	1
18	830132	(000000-	) Fitting, Grease, Str 6mm	1

Fig. 7 - Side Brush Group

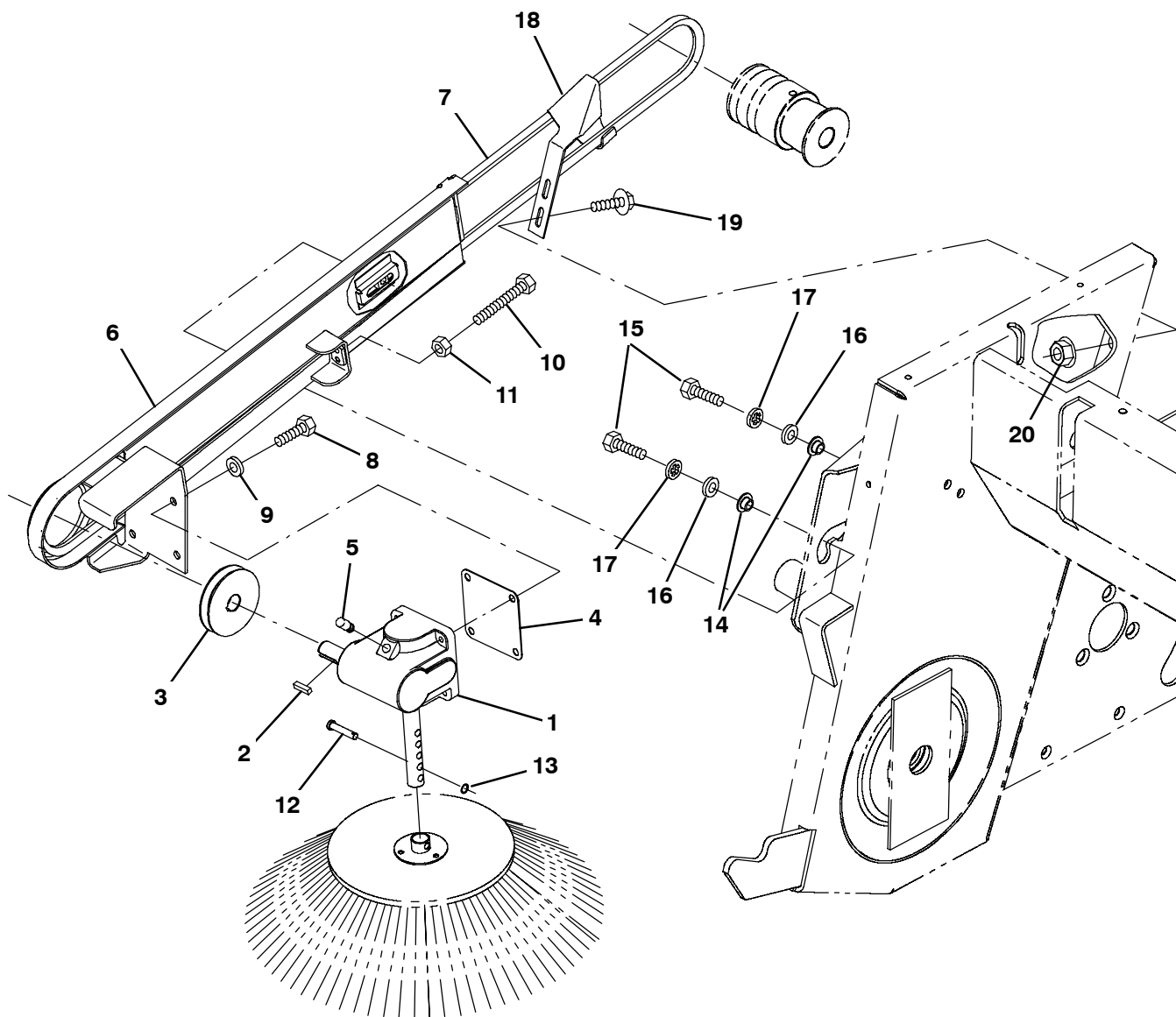


Fig. 7 - Side Brush Group

Ref.	Part No.	Serial Number	Description	Qty.
1	830235	(000000-	) Gearbox, Reducer	1
2	00911	(000000-	) Key, Sq, 0.19 X 0.19, 0.75l	1
3	28121	(000000-	) Sheave, 01grv, 02.5pd 0.62b [3l]	1
4	28078	(000000-	) Gasket	1
94149 5	87816 15	(000000-	) Breather, Hyd, 0.12npt	1
6	830171	(000000-	) Arm Wldt, Sppt, Brush, Side	1
7	28712	(000000-	) Belt, V, 74.0l [3l]	1
8	11329	(000000-	) Screw, Hex, M6 X 1.0 X 16, Ss, NI	4
9	01684	(000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	4
10	33401	(000000-	) Screw, Hex, M8 X 1.25 X 50, Ss, FI	1
11	07786	(000000-	) Nut, Hex, Std, M8 X 1.25, Ss	1
12	15173	(000000-	) Pin, Clevis, 0.25d X 1.25l	1
13	49708	(000000-	) Ring, Split	1
14	1040197	(000000-	) Retainer	2
15	09740	(000000-	) Screw, Hex, M8 X 1.25 X 20, Ss	2
16	32490	(000000-	) Washer, Flat, 0.25, Std	2
17	32984	(000000-	) Washer, Lock, Int, 0.31	2
18	830161	(000000-	) Guide, Belt	1
19	763025	(000000-	) Screw, Hex, M5 X 0.8 X 10, FI	2
20	07789	(000000-	) Nut, Hex, Flng, M5 X 0.80	2

Fig. 8 - Main Brush Lift Group

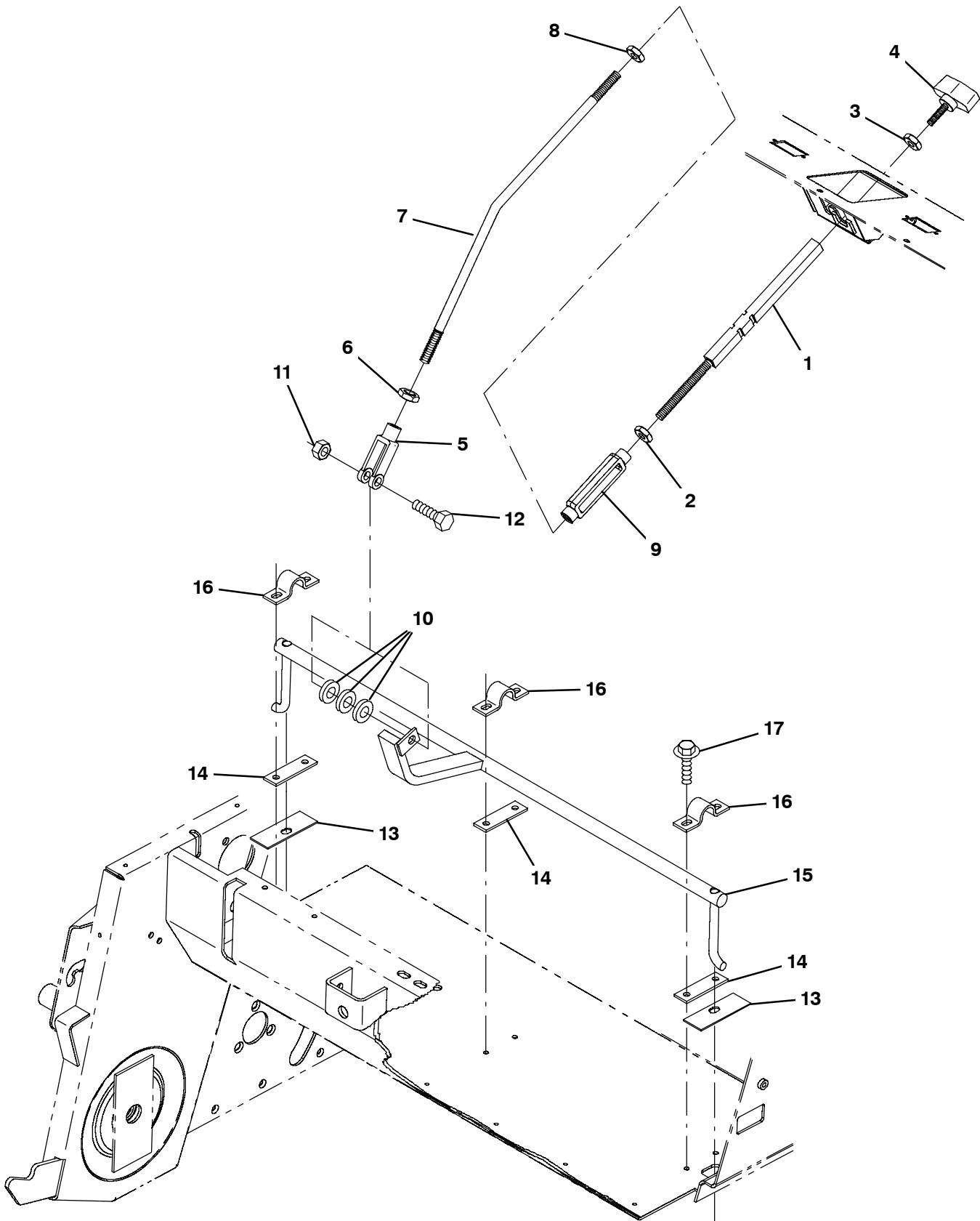


Fig. 8 - Main Brush Lift Group

Ref.	Part No.	Serial Number	Description	Qty.
1	830123	(000000-	) Handle, Brush Lift	1
2	25014	(000000-	) Nut, Hex, Std, .38-16	1
3	32520	(000000-	) Nut, Hex, Jam, .25-20	1
4	01139	(000000-	) Handle, Tee	1
5	14330	(000000-	) Yoke,End,Adjustable	1
6	43954	(000000-	) Nut, Hex, Std, .38-24	1
7	830126	(000000-	) Rod, Brush Lift	1
8	39562	(000000-	) Nut, Hex, Jam, .38-16, Lh	1
9	40352	(000000-	) Turnbuckle, Body, .38thread, 03.9l	1
10	32491	(000000-	) Washer, Flat, 0.31, Std	4
11	08709	(000000-	) Nut, Hex, Lock, M8 X 1.25, NI	1
12	06955	(000000-	) Screw, Hex, M8 X 1.25 X 35, 8.8	1
13	29005	(000000-	) Seal	2
14	830129	(000000-	) Strip	3
15	830131	(000000-	) Shaft Wldmt, Brush Lift	1
16	830128	(000000-	) Clamp, Conduit	3
17	361339	(000000-	) Screw, Hex, M6 X 1.0 X 16, Fmg	6

Fig. 9 - Battery and Charger Group

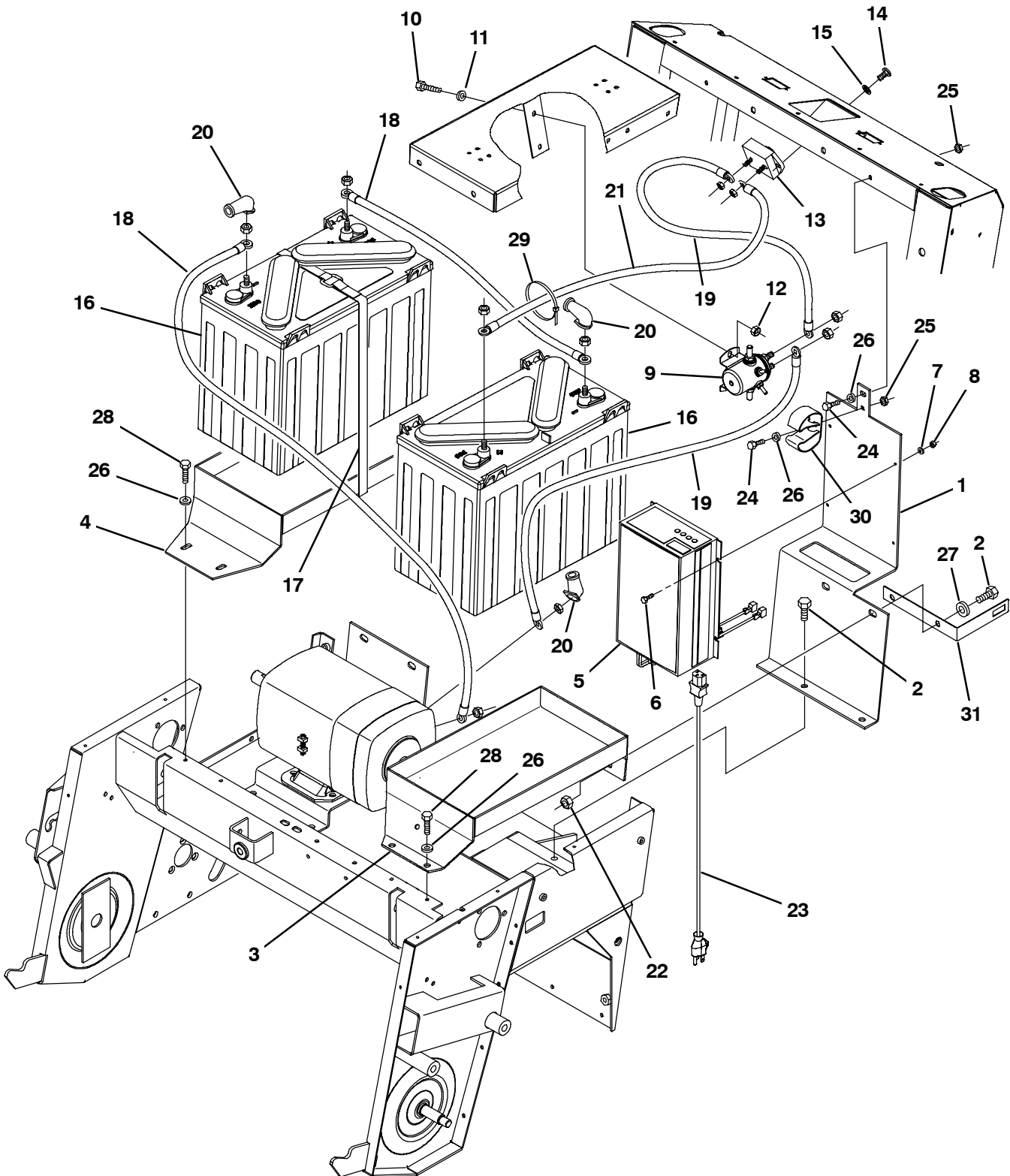


Fig. 9 - Battery and Charger Group

Ref.	Part No.	Serial Number	Description	Qty.
1	1038023	(000000-	) Support, Tray, Battery	1
2	16931	(000000-	) Screw, Hex, M8 X 1.25 X 20, 8.8	6
3	830090	(000000-	) Tray Wldt, Batt Lh	1
4	830094	(000000-	) Tray Wldt, Batt Rh	1
5	1028508	(000000-	) Charger, 24vdc 11a 100/240vac 50/60hz	1
6	33928	(000000-	) Screw, Hex, M4 X 0.7 X 20, Ss	4
7	41578	(000000-	) Washer, Flat, #06, Ss	4
8	33932	(000000-	) Nut, Hex, Lock, M4 X 0.70, NI, Ss	4
9	1039471	(000000-	) Contactor, 24vdc, 60a, Spno	1
10	06943	(000000-	) Screw, Hex, M6 X 1.0 X 20, 8.8	2
11	41185	(000000-	) Washer, Flat, Belleville, .25	2
12	07790	(000000-	) Nut, Hex, Flng, M6 X 1.00	2
13	375120	(000000-	) Circuitbreaker, 60.0a [Resetable]	1
14	140841	(000000-	) Screw, Pan, #10-32 X 0.62, Phl, Ss	2
15	07514	(000000-	) Washer, Lock, Int, #10, Ss	2
16	1030120	(000000-	) Battery, Wet, 12vdc 0155ah, W/O Carton	2
17	378764	(000000-	) Strap	2
18	86421	(000000-	) Cable, 06ga 27.0l Blk .34ring /.34ring	2
19	01094	(000000-	) Cable, 06ga 12.0l Blk .38ring /.38ring	2
20	02076	(000000-	) Boot, 90deg .50id .57id X .84id 1.0l,Blk	3
21	222218	(000000-	) Cable, 06ga 30.0l Red .34ring /.34ring	1
22	07791	(000000-	) Nut, Hex, Flng, M8 X 1.25	4
23	1025642	(000000-	) Cord, Power, 16/3, 4.5 Meters, Blk [Us]	1
24	11329	(000000-	) Screw, Hex, M6 X 1.0 X 16, Ss, NI	2
25	07790	(000000-	) Nut, Hex, Flng, M6 X 1.00	2
26	01684	(000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	6
27	32491	(000000-	) Washer, Flat, 0.31, Std	4
28	361339	(000000-	) Screw, Hex, M6 X 1.0 X 16, Fmg	4
29	130773	(000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	11
30	1014295	(000000-	) Clip, Grip, Hose, 0.75-1.12, Blk Vyl,Stl	1
31	1040860	(000000-	) Bracket, Holder, Fuse	1

Fig. 10 - Instrument Panel Group

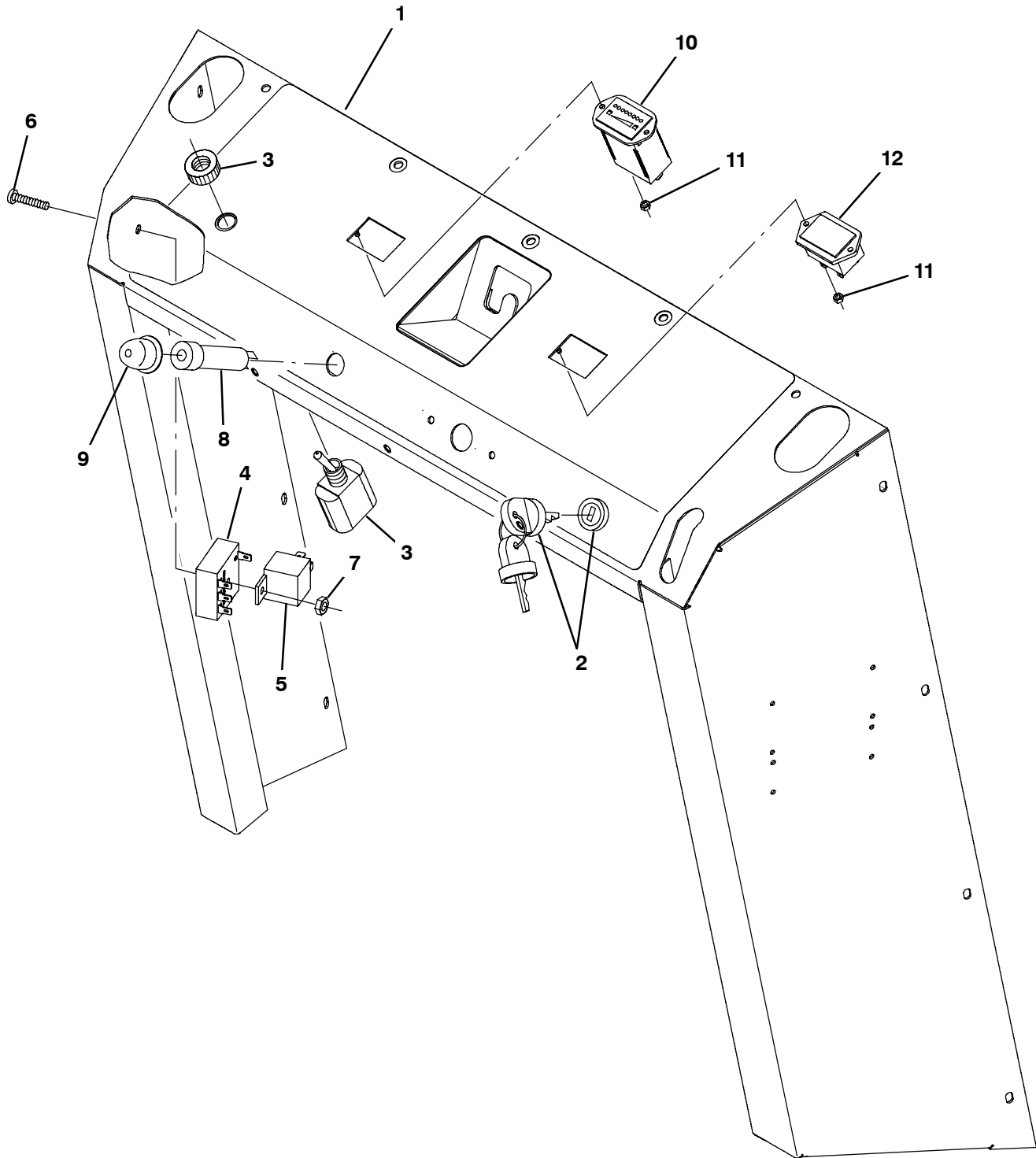


Fig. 10 - Instrument Panel Group

Ref.	Part No.	Serial Number	Description	Qty.
1	1040896	(000000-	) Panel, Instrument W/Label N/A	1
1	1040960	(000000-	) Panel, Instrument W/Label Ce	1
2	222282	(000000-	) Switch, Key, Spdt	1
3	63266	(000000-	) Switch, Toggle, 10a Spst, Sealed	1
4	09338	(000000-	) Timer, 12vdc, 20 Sec, One-Shot	1
5	1039472	(000000-	) Relay, 24vdc, 40a Spdt	1
6	48991	(000000-	) Screw, Pan, #10-24 X 1.25, G1	1
7	45181	(000000-	) Nut, Hex, Lock, #10-24, NI	1
8	57803	(000000-	) Circuitbreaker, 15.0a, Resetable	1
9	57751	(000000-	) Boot, Dome, .72id .72l, Clear	1
10	1016712	(000000-	) Indicator, Battery, 24vdc, 1.73volt/Cell	1
11	579211	(000000-	) Nut, Hex, Lock, M3 X 0.50, Ss	4
12	1014572	(000000-	) Gauge, Hourmeter, 14-48vdc, Lcd, Rt,.1hr	1

Fig. 11 - Directional Control and Handle Group

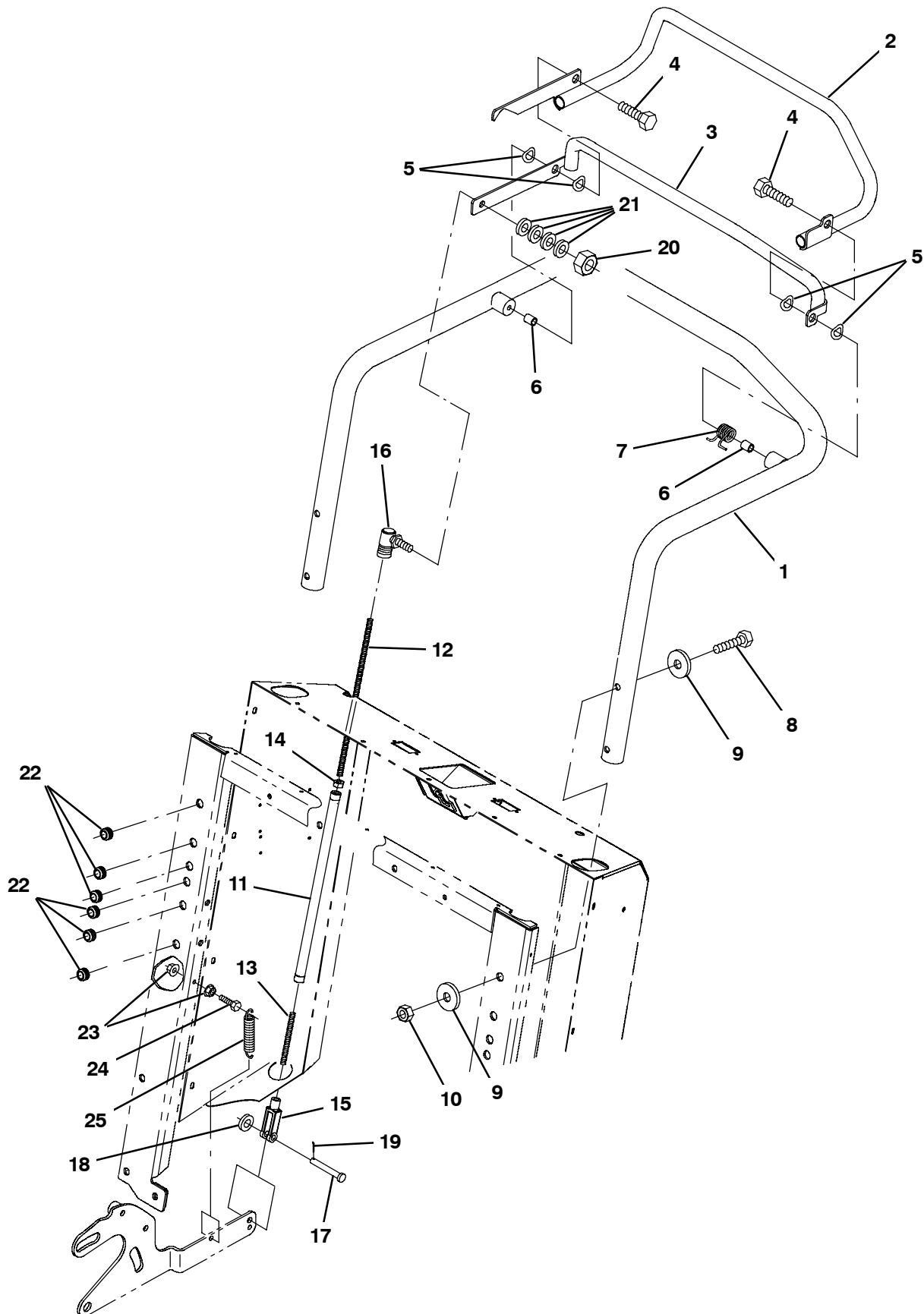


Fig. 11 - Directional Control and Handle Group

Ref.	Part No.	Serial Number	Description	Qty.
1	1037095	(000000-	) Handle Weldment, Main, Mantis	1
2	1037127	(000000-	) Handle Weldment, Forward, Mantis	1
3	1037137	(000000-	) Handle Weldment, Reverse, Mantis	1
4	76570	(000000-	) Screw, Hex, M8 X 1.25 X 30, 8.8	2
5	52508	(000000-	) Washer, Wavy, 0.53b 0.81d .09	4
6	830043	(000000-	) Sleeve	2
7	1039612	(000000-	) Spring, Torsion	1
8	222504	(000000-	) Screw, Hex, M8 X 1.25 X 55, Ss	4
9	32491	(000000-	) Washer, Flat, 0.31, Std	8
10	07791	(000000-	) Nut, Hex, Flng, M8 X 1.25	4
11	1037961	(000000-	) Rod, Propel Control	1
12	1037963	(000000-	) Rod, Upper, Control Lever	1
13	1037962	(000000-	) Rod, Lower, Dir Cntrl Link	1
14	20170	(000000-	) Nut, Hex, Jam, .31-24	1
15	58311	(000000-	) Clevis, Adj, 0.31pin, 0.31-24	1
16	50909	(000000-	) Balljoint, .31-24 Fem, .31-24 Mal, Qdc	1
17	69582	(000000-	) Pin, Clevis, 0.31d X 1.00l	1
18	32490	(000000-	) Washer, Flat, 0.25, Std	1
19	39005	(000000-	) Pin, Cotter, .094 X 0.75	1
20	32960	(000000-	) Nut, Hex, Lock, .31-24, NI	1
21	32491	(000000-	) Washer, Flat, 0.31, Std	4
22	10632-12	(000000-	) Grommet, Rbr, 0.38id, F/0.5h, .12 Matl	4
23	89244	(000000-	) Nut, Hex, M12x1.75, Lh Rep.by069760115	1
24	07789	(000000-	) Nut, Hex, Flng, M5 X 0.80	2
25	29545	(000000-	) Spring, Extn, 0.56od 0.05wir 02.0l	1

Fig. 12 - Hopper Group

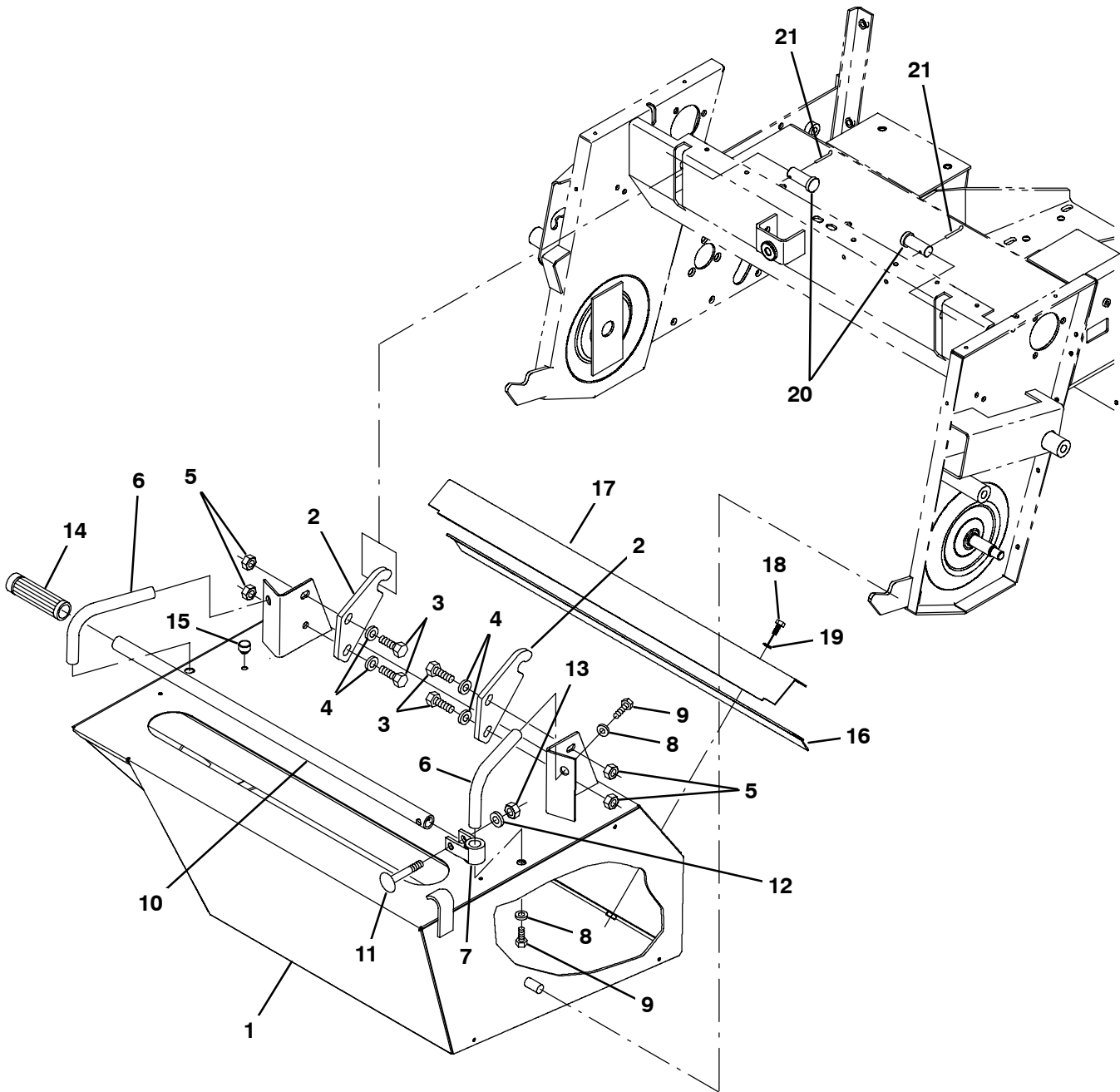


Fig. 12 - Hopper Group

Ref.	Part No.	Serial Number	Description	Qty.
1	1040967	(000000-	) Hopper W/Label N/A	1
1	1040987	(000000-	) Hopper W/Label Ce	1
2	830221	(000000-	) Plate, Hopper Catch	2
3	368412	(000000-	) Screw, Hex, M8 X 1.25 X 30, 10.9	4
4	32491	(000000-	) Washer, Flat, 0.31, Std	8
5	08709	(000000-	) Nut, Hex, Lock, M8 X 1.25, NI	4
6	830217	(000000-	) Handle, Hopper Lift	2
7	12768	(000000-	) Handle, Knuckle	1
8	32492	(000000-	) Washer, Flat, 0.38, Std	4
9	09291	(000000-	) Screw, Hex, M10 X 1.5 X 20, Ss	4
10	830229	(000000-	) Handle, Lift	1
11	32966	(000000-	) Bolt, Carriage, .31-18 X 1.50	1
12	39349	(000000-	) Washer, Flat, 0.31, Sae	1
13	01760	(000000-	) Nut, Hex, Lock, .31-18, NI, Thin	1
14	03292B	(000000-	) Grip, Handle, Rnd	1
15	51787	(000000-	) Bumper, Rbr, 0.6d 0.34th 0.3d Tip	1
16	830013	(000000-	) Assy, Lip Pan	1
17	830223	(000000-	) Retainer, Lip	1
18	09744	(000000-	) Screw, Hex, M6 X 1.0 X 12, Ss	7
19	01684	(000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	7
20	01272	(000000-	) Pin, Clevis, 0.62d X 1.50l	2
21	08182	(000000-	) Pin, Cotter, .125 X 1.00	2

Fig. 13 - Filter and Shaker Motor Group

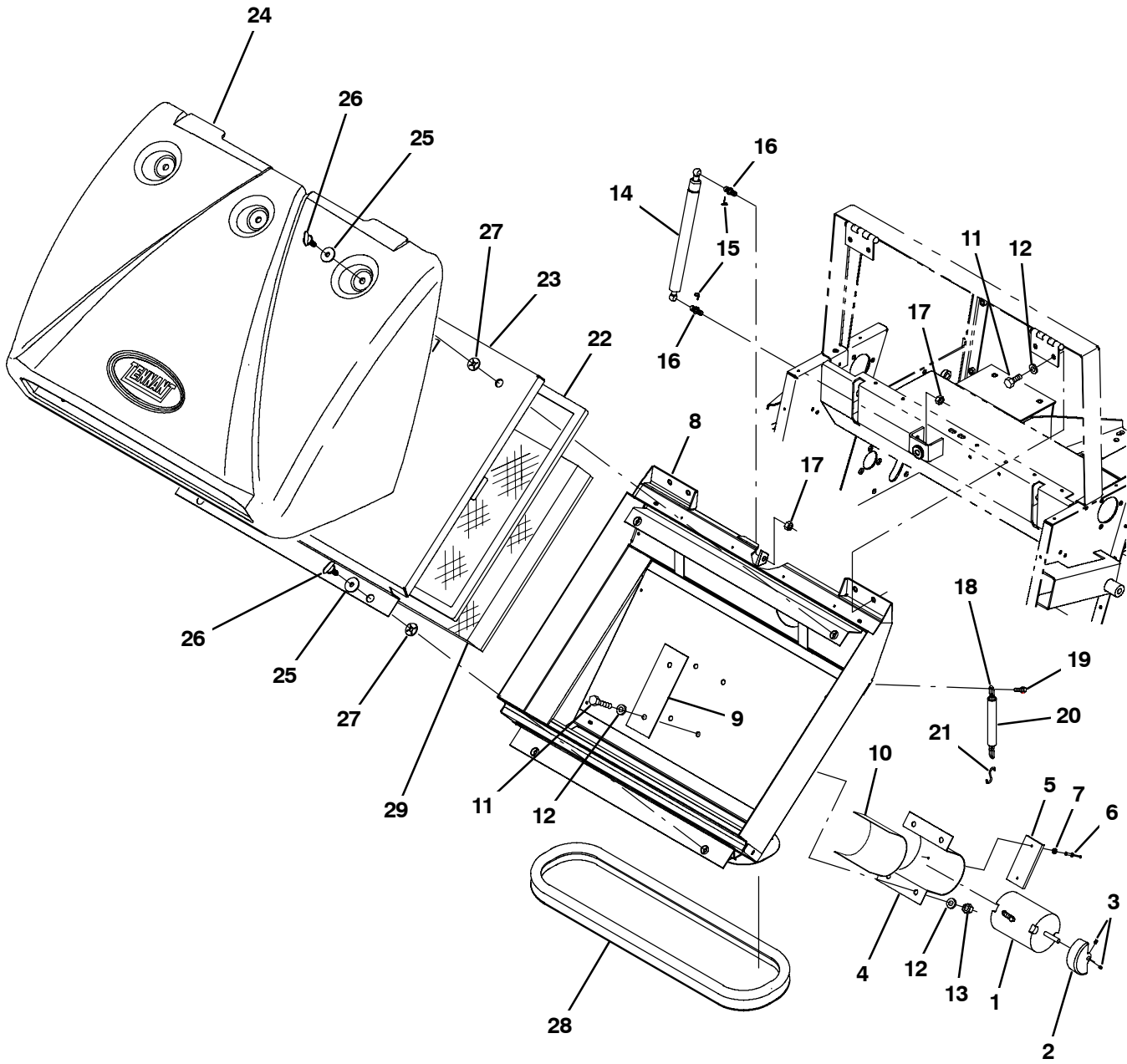


Fig. 13 - Filter and Shaker Motor Group

Ref.	Part No.	Serial Number	Description	Qty.
1	54121	(000000-	) Motor, Ele, 12vdc 1375rpm 0.08hp 08.4a	1
2	55130	(000000-	) Eight, Eccentric	1
3	20634	(000000-	) Screw, Set, #10-24 X 0.25, NI	2
4	830262	(000000-	) Strap, Shaker Motor	1
5	06660	(000000-	) Bumper, Shakr	1
6	01335	(000000-	) Rivet, Blind, .125d X 0.44 X .25d, Alm	2
7	41578	(000000-	) Washer, Flat, #06, Ss	2
8	830107	(000000-	) Filterbox Wldt	1
9	830270	(000000-	) Plate, Support Shaker	1
10	44893	(000000-	) Strip, Rbr, 0.06 03.90w 10.0l	1
11	16931	(000000-	) Screw, Hex, M8 X 1.25 X 20, 8.8	6
12	32491	(000000-	) Washer, Flat, 0.31, Std	6
13	08709	(000000-	) Nut, Hex, Lock, M8 X 1.25, NI	4
14	31172	(000000-	) Gasspring, 150lb, 06.3strk	1
15	64595	(000000-	) Clip, Safety, Gasspring	2
16	58494	(000000-	) Stud, Ball, .39d .31-16, Gasspring	2
17	01760	(000000-	) Nut, Hex, Lock, .31-18, NI, Thin	2
18	06121	(000000-	) Chain, Sash, #35, 06.0l 11 Link	6
19	01708	(000000-	) Screw, Hex, #10-24 X 0.50, Tcut	1
20	01320	(000000-	) Sleeve, Flex Vyl, .33id 05.3l	1
21	01319	(000000-	) Hook	1
22	01064	(000000-	) Seal, Rbr, Open, 0.50, 0.75w 92.0l Adh	1
23	830492	(000000-	) Cover Wldt, Filterbox	1
24	1041031	(000000-	) Cover, Front W/Label	1
25	830419	(000000-	) Washer, Sealing, M8	5
26	1037254	(000000-	) Screw, Thumb	5
27	08156	(000000-	) Retainer, Screw	5
28	08157	(000000-	) Seal, Lip, 90, 1.3w . Grip 054.0l	1
29	1037206	(000000-	) Filter, Panl, Dust, 2.2 X 16.0 X 26.0	1

Fig. 14 - Vacuum Fan Group

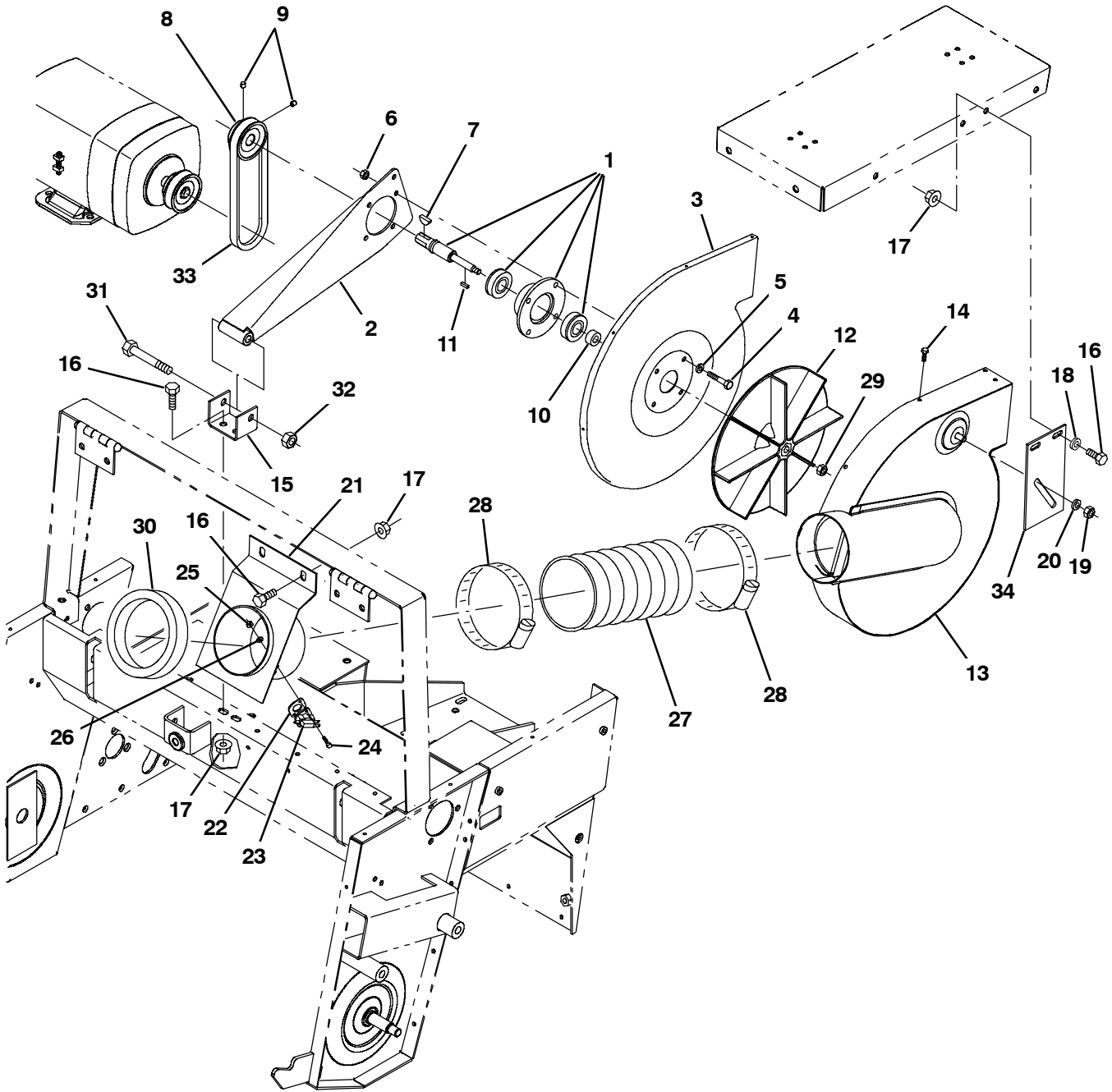


Fig. 14 - Vacuum Fan Group

Ref.	Part No.	Serial Number	Description	Qty.
1	1040802	(000000-	) Bearing Ass'Y	1
2	830239	(000000-	) Bracket Wldt, Mtg. Vac Fan	1
3	830406	(000000-	) Plate, Backing, Fan Housing	1
4	06943	(000000-	) Screw, Hex, M6 X 1.0 X 20, 8.8	4
5	19066	(000000-	) Washer, Flat, #10	4
6	07790	(000000-	) Nut, Hex, Flng, M6 X 1.00	4
7	00500-4	(000000-	) Key, Woodruff, 0.12 0.50 [Asa#0404]	1
8	1025304	(000000-	) Sheave, 01grv, 1.8/2.1pd 0.63b [3l/4l]	1
9	46820	(000000-	) Screw, Set, .31-18 X 0.38, NI	2
10	830233	(000000-	) Sleeve	1
11	00960	(000000-	) Key, Sq, 0.12 X 0.12, 0.50l	1
12	08143	(000000-	) Impeller, 9.00d X 0.376b	1
13	830240	(000000-	) Housing Wldt, Vac Fan	1
14	41189	(000000-	) Screw, Hex, #06-20 X 0.38, Fmg [Ab]	9
15	830244	(000000-	) Bracket, Fan Pivot	1
16	16931	(000000-	) Screw, Hex, M8 X 1.25 X 20, 8.8	4
17	07791	(000000-	) Nut, Hex, Flng, M8 X 1.25	4
18	41185	(000000-	) Washer, Flat, Belleville, .25	2
19	08709	(000000-	) Nut, Hex, Lock, M8 X 1.25, NI	1
20	32491	(000000-	) Washer, Flat, 0.31, Std	1
21	830246	(000000-	) Adaptor Wldt, Filter To Fan	1
22	82733	(000000-	) Gasket, Sensor, Thermal	1
23	02712	(000000-	) Sensor Assy, Thermal, 140deg, Nc [Reset]	1
24	763025	(000000-	) Screw, Hex, M5 X 0.8 X 10, FI	2
25	06549	(000000-	) Nut, Hex, Lock, M5 X 0.80, NI	2
26	01684	(000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	2
27	23481	(000000-	) Hose, Flex, Vacuum, 04.0d, 005.0l	1
28	23498	(000000-	) Clamp, Hose, Wormdrive, 3.56-4.50d, .50w	2
29	08709	(000000-	) Nut, Hex, Lock, M8 X 1.25, NI	1
30	47069	(000000-	) Seal, Rbr, Clsd, 1.00, 4.9d 03.9h	1
31	763054	(000000-	) Screw, Hex, M10 X 1.5 X 75, 8.8	1
32	41430	(000000-	) Nut, Hex, Lock, M10 X 1.5, NI	1
33	60470	(000000-	) Belt, V, 19.0l, Cogged [4l]	1
34	830251	(000000-	) Plate, Backing	1

Fig. 15 - Covers Group

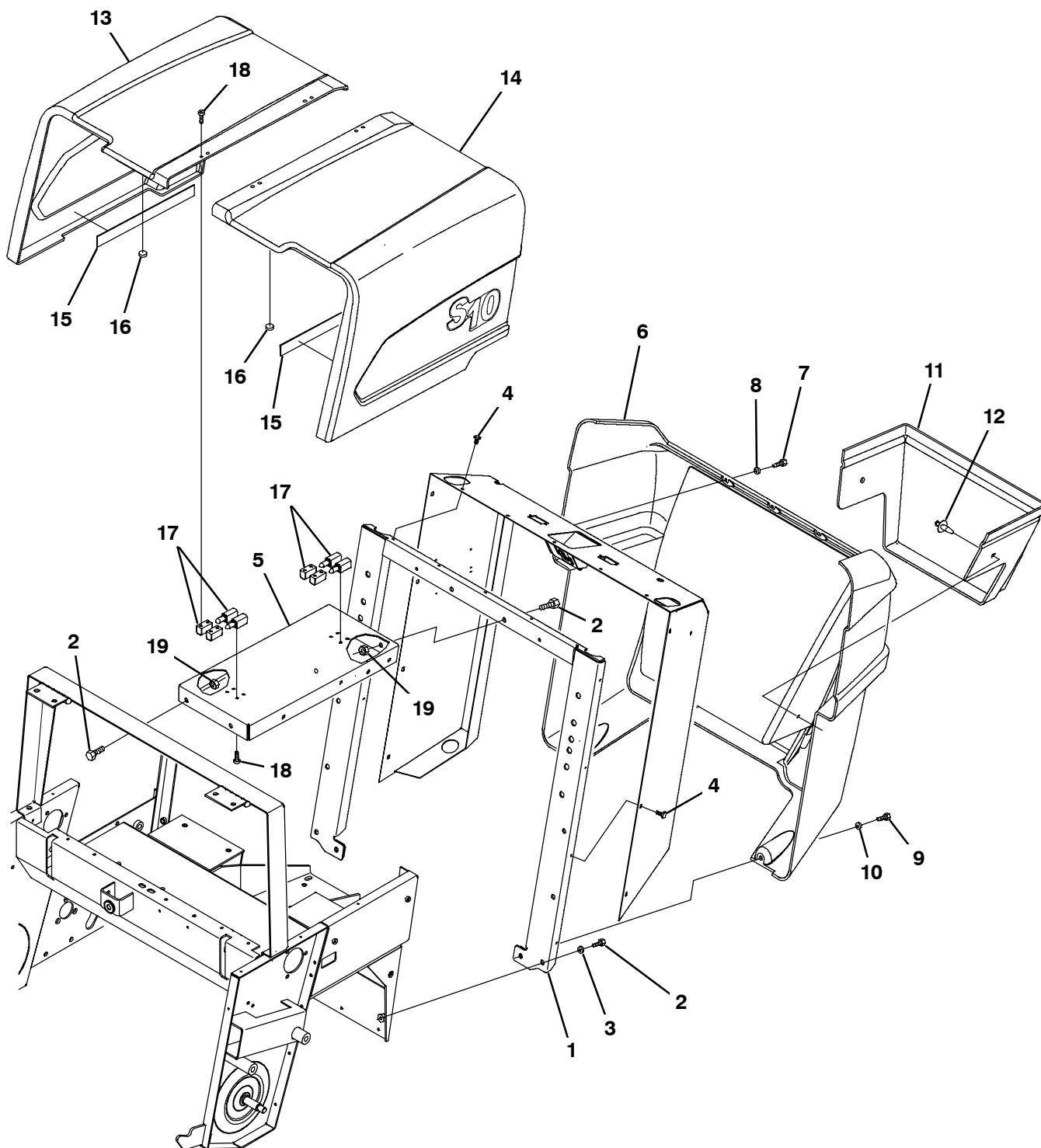
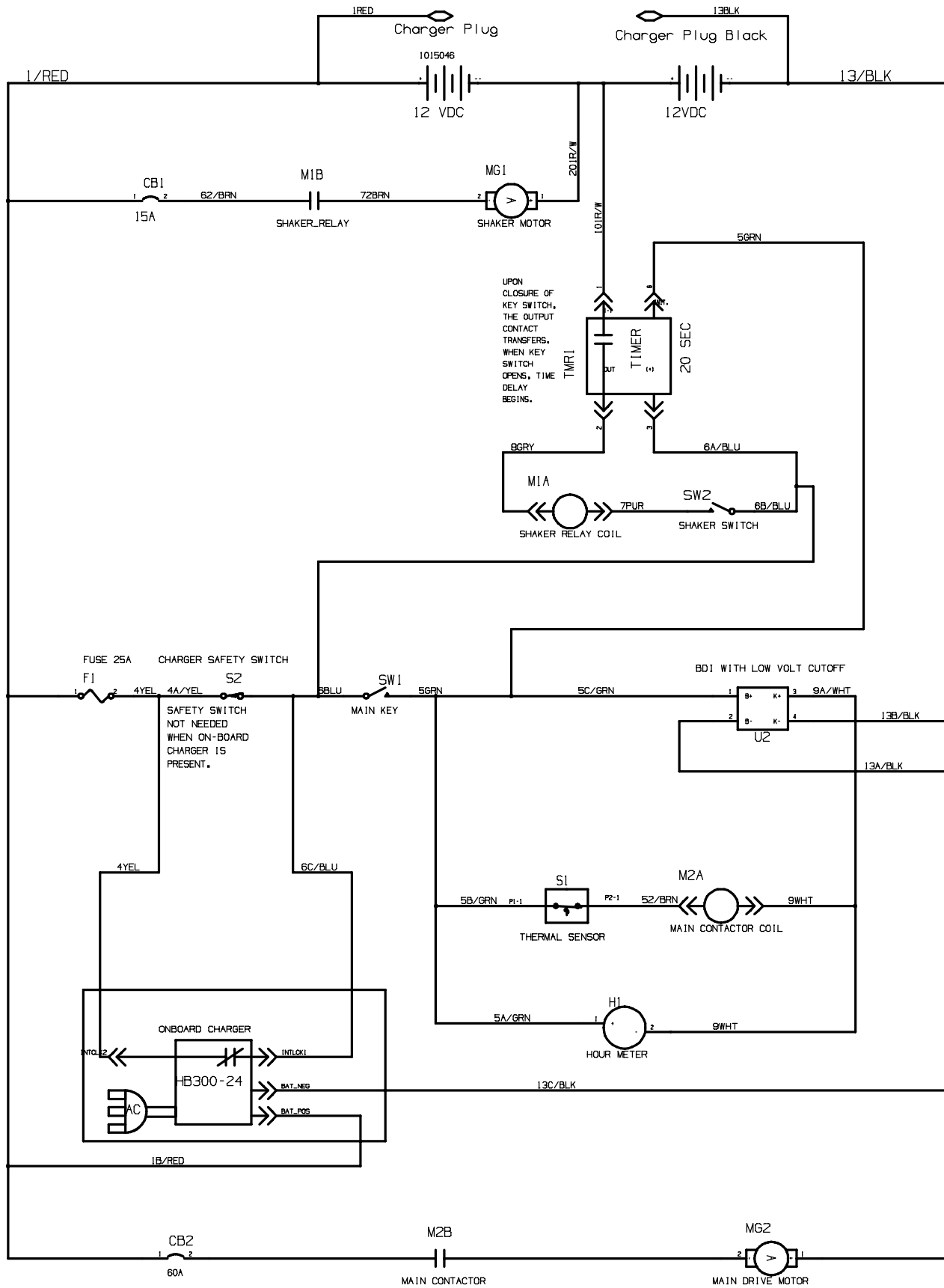


Fig. 15 - Covers Group

Ref.	Part No.	Serial Number	Description	Qty.
1	830049	(000000-	) Support, Rear	1
2	16931	(000000-	) Screw, Hex, M8 X 1.25 X 20, 8.8	9
3	32491	(000000-	) Washer, Flat, 0.31, Std	6
4	223198	(000000-	) Screw, Hex, M5 X 0.8 X 10, Fmg	13
5	1041121	(000000-	) Channel Wldt, Center W/Labels Na	1
5	1041124	(000000-	) Channel Wldt, Center W/Label Ce	1
6	830106	(000000-	) Mantis Rear Cover	1
7	763025	(000000-	) Screw, Hex, M5 X 0.8 X 10, FI	3
8	01683	(000000-	) Washer, Flat, 0.22b 0.50d .05, Ss [#10]	3
9	11329	(000000-	) Screw, Hex, M6 X 1.0 X 16, Ss, NI	2
10	19066	(000000-	) Washer, Flat, #10	2
11	830108	(000000-	) Mantis Rear Pocket	1
12	72968	(000000-	) Rivet, Plstc, .250d X 0.90	2
13	1040831	(000000-	) Cover, Rh W/Label [S10]	1
14	1040817	(000000-	) Cover, Lh W/Label [S10]	1
15	09367	(000000-	) Magnetic Strip Flex 1.0 .06 11	2
16	64757	(000000-	) Bumper, Rbr, Adh, 0.50d 0.14th	6
17	830448	(000000-	) Hinge, Lift Off, In-line	4
18	06932	(000000-	) Screw, Pan, M5 X 0.80 X 10, 4.8	16
19	07791	(000000-	) Nut, Hex, Flng, M8 X 1.25	3

Fig. 16 - Electrical Schematic



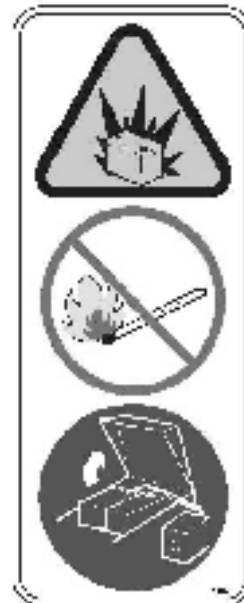
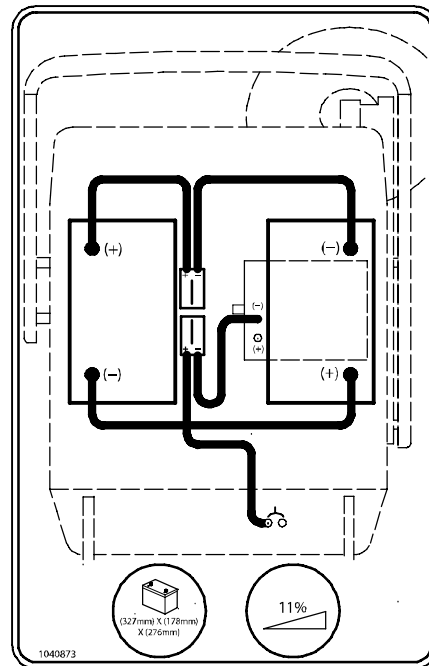
NOTES: 1. ALL WIRES EQUAL 16AWG EXCEPT WHERE LISTED.

STANDARD PARTS



STANDARD PARTS

Fig. 18 - Label Group



354574

Ref.	Part No.	Serial Number	Description	Qty.
1	830449	(000000-)	Label, Set, Info/Hzrd, Na, Tw	1

Fig. 19 - Documentation Group

Ref.	Part No.	Serial Number	Description	Qty.
	331580	(000000-	) Oprtr, Manual, En [S10]	1
	331581	(000000-	) Parts, Manual, En, Ja [S10]	1
	331582	(000000-	) Oprtr, Manual, Es [S10]	1
	331583	(000000-	) Oprtr, Manual, Fr [S10]	1
	331584	(000000-	) Oprtr, Manual, Jp [S10]	1
	331587	(000000-	) Oprtr, Manual, Cn [S10]	1
	331585	(000000-	) Service, Manual, En [S10]	1
	1039731	(000000-	) Video, Oprtr, Dvd [S10]	1
	1040301	(000000-	) Wall Chart [S10]	1

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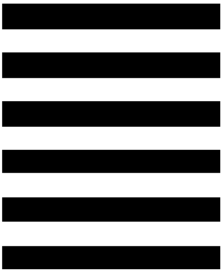
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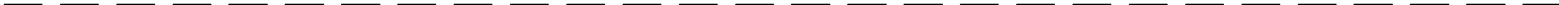
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