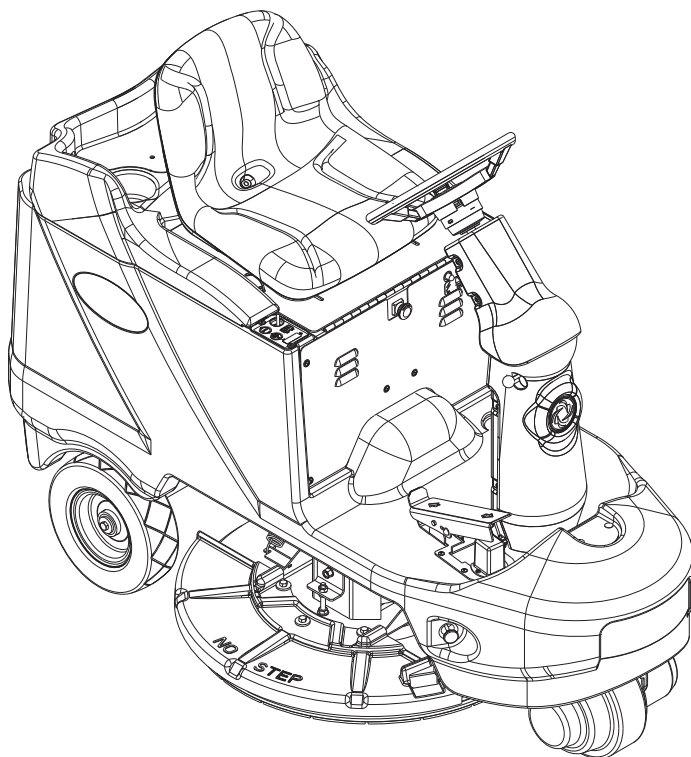


Advolution™ 2710

Parts List

3/2006 revised 5/2020 REV F
Form no. 56042468



Model No:
56422000
56422002
56422184

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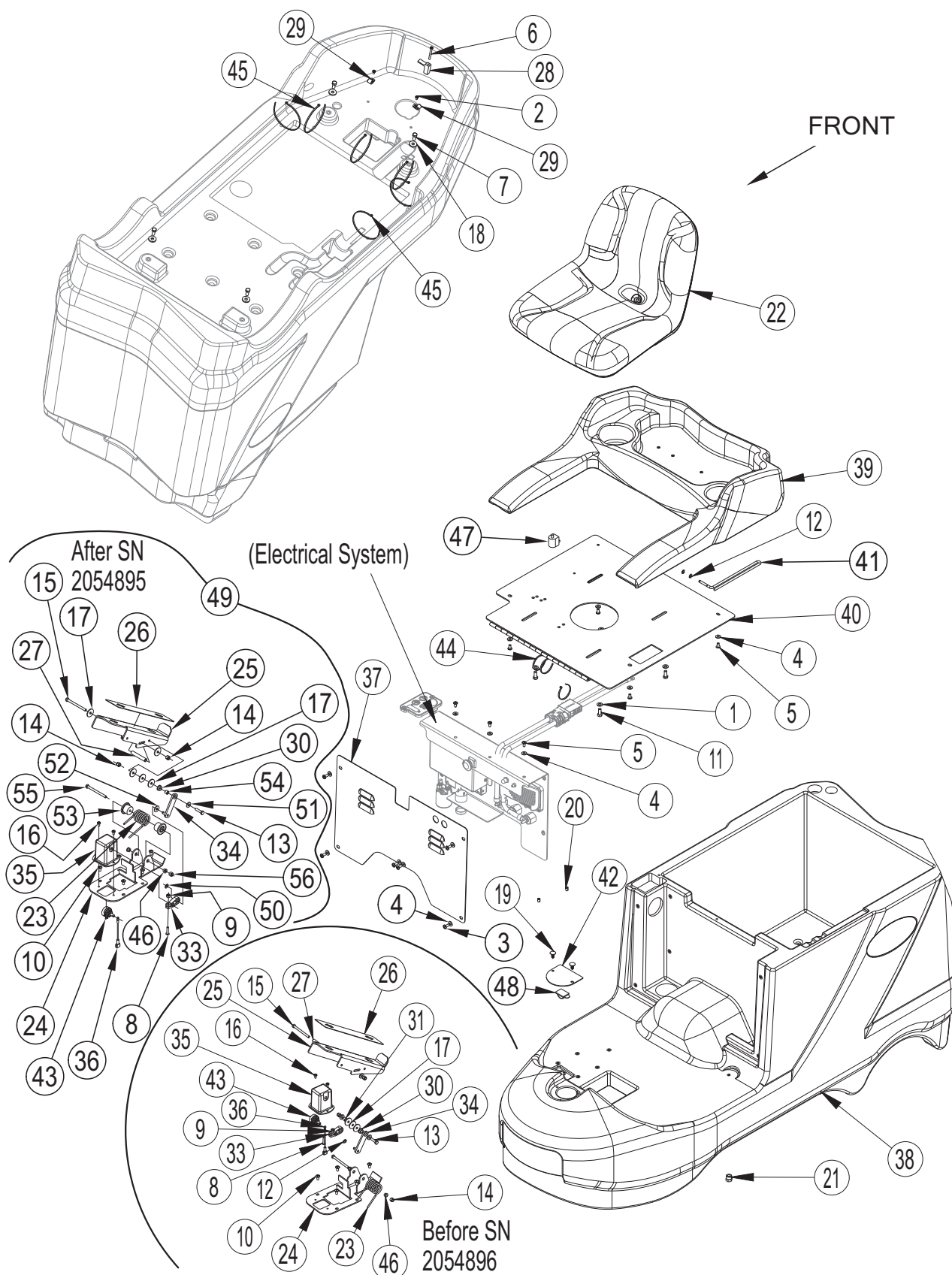
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WHEN ORDERING PARTS

- * Use the part numbers from the "Ref. No." columns in this parts list.
- * Specify the model number and serial number of the machine.
- * Use the space below to record the model number and serial number for future reference.

Model No. _____ Serial No. _____

BODY SYSTEM



BODY SYSTEM

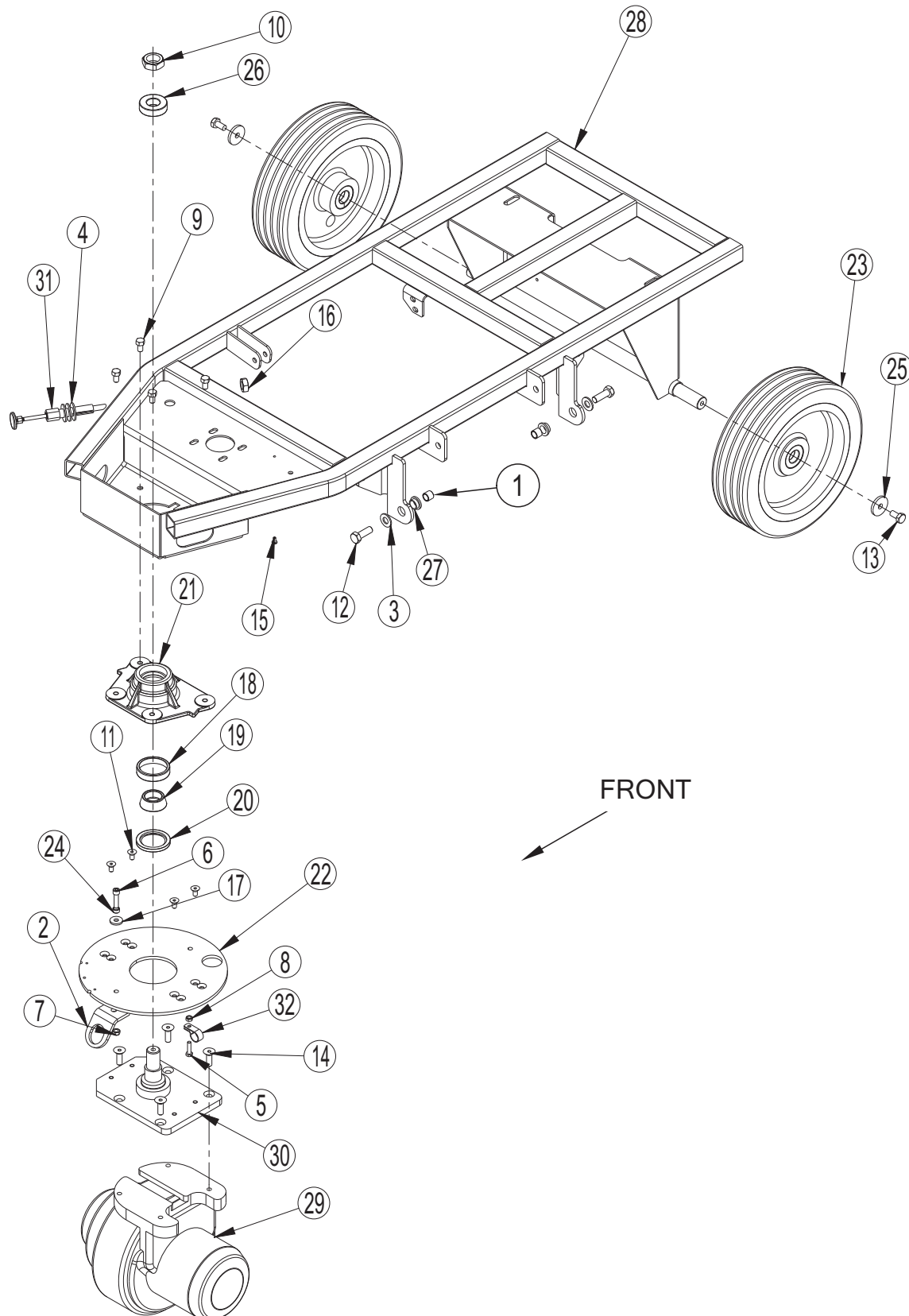
Item	Ref. No.	Qty	Description
1	56001939	4	Wsh, Flt SAE 5/16
2	56002043	2	Scr. Pan Phil 10-24 X .38
3	56002066	4	Scr. Pan Phil 1/4-20 X .62
4	56002098	15	Wsh, Flt SAE 1/4
5	56002145	7	Scr. Pan Phil 1/4-20 X .50
6	56002171	1	Scr. Pan Phil 10-24 X 2.00
7	56002667	4	Scr. Hex 5/16-18 X .75
8	56002733	1	Scr. Pan Phil 10-24 X .88
9	56002768	1	Nut, Hex Nyl Loc 10-24
10	56003119	5	Scr. Pan Phil SS 1/4-20 X .50
11	56002221	4	Scr-Hex 5/16-18 X 1.00
12	56003268	2	Ring, Ret Ext Type E Reinf. 0.25 Dia
13	56003358	1	Scr. Hex M6-1 X 25mm
14	56003403	2	Nut, Hex Nyl Loc M6-1
15	56003428	1	Scr. Hex M6-1 X 75mm
16	56009030	2	Scr. Pan Phil Thd Form 10-24 X .38
17	56009060	3	Wsh, Flt SS .260 X 1.000 X .074 (qty of 5 after SN 2054896)
18	56009122	4	Wsh, Flt .344 X .938 X .125
19	56003263	2	Rivet, Nylon Tree Push-In (.25)
20	56249946	2	Insert, Brass 10-24
21	56261421	1	Plug, Hex Pipe
22#	56394342	1	Seat NOTE 3
23	56314037	1	Spring, Torsion
24		1	Bracket, Foot Pedal NOTE 2
25		1	Foot Pedal NOTE 2
26	56314176	1	Mat, Pedal
27	56380439	1	Bushing
28	56314608	1	Clamp, Cable
29	56323277	2	Clamp, P
30	56324505	1	Bearing, Flange
31	56368989	1	Bushing
32#			DELETED
33	56409471	1	Lever, Throttle
34	56409610	1	Link Weldment
35	56412094	1	Housing, Potentiometer
36	56412331	1	Wire Assy.
37	56422029	1	Cover, Electrical Compartment
38	56422056	1	Body, Main
39	56422067	1	Cover, Battery
40	56422073	1	Weldment, Seat Panel
41	56422080	1	Prop Rod
42	56422082	1	Cover, Spindle
43	56454740	1	Potentiometer, 5K (R1)
44	56478246	3	Tie, Cable
45	56478523	6	Tie, Cable
46	56756318	2	Bearing, Flange
47	7-82-00050	1	Switch
48	7-13-07096	1	Clamp, Adjustable
49	56413421	1	Pedal Assembly NOTE 1 (items 8-9, 13-17, 23-27, 30, 33-36, 43, 46 & 50-56)
50	56003268	1	Ring, Ret Ext Type E Reinf. 0.25 Dia NOTE 1
51	56002098	1	Wsh, Flt SAE 1/4 NOTE 1
52	56009025	1	Wsh, Flt .266 x .750 x .036 NOTE 1
53	56380438	2	Spacer, Spring NOTE 1
54	56380440	1	Bushing, M6 x .375 x .295 NOTE 1
55	56002063	1	Scr-Hex 1/4-20 x 3.00 NOTE 1
56	56002708	1	Nut-Hex Nyl Loc 1/4-20 NOTE 1

NOTE 1: These parts are only used after serial number 2054895.

NOTE 2: If you need to replace either of these items please order Pedal Assembly 56413421.

NOTE 3: Order Seat Kit 56383240 when replacing the Seat.

= Revised or new since last update

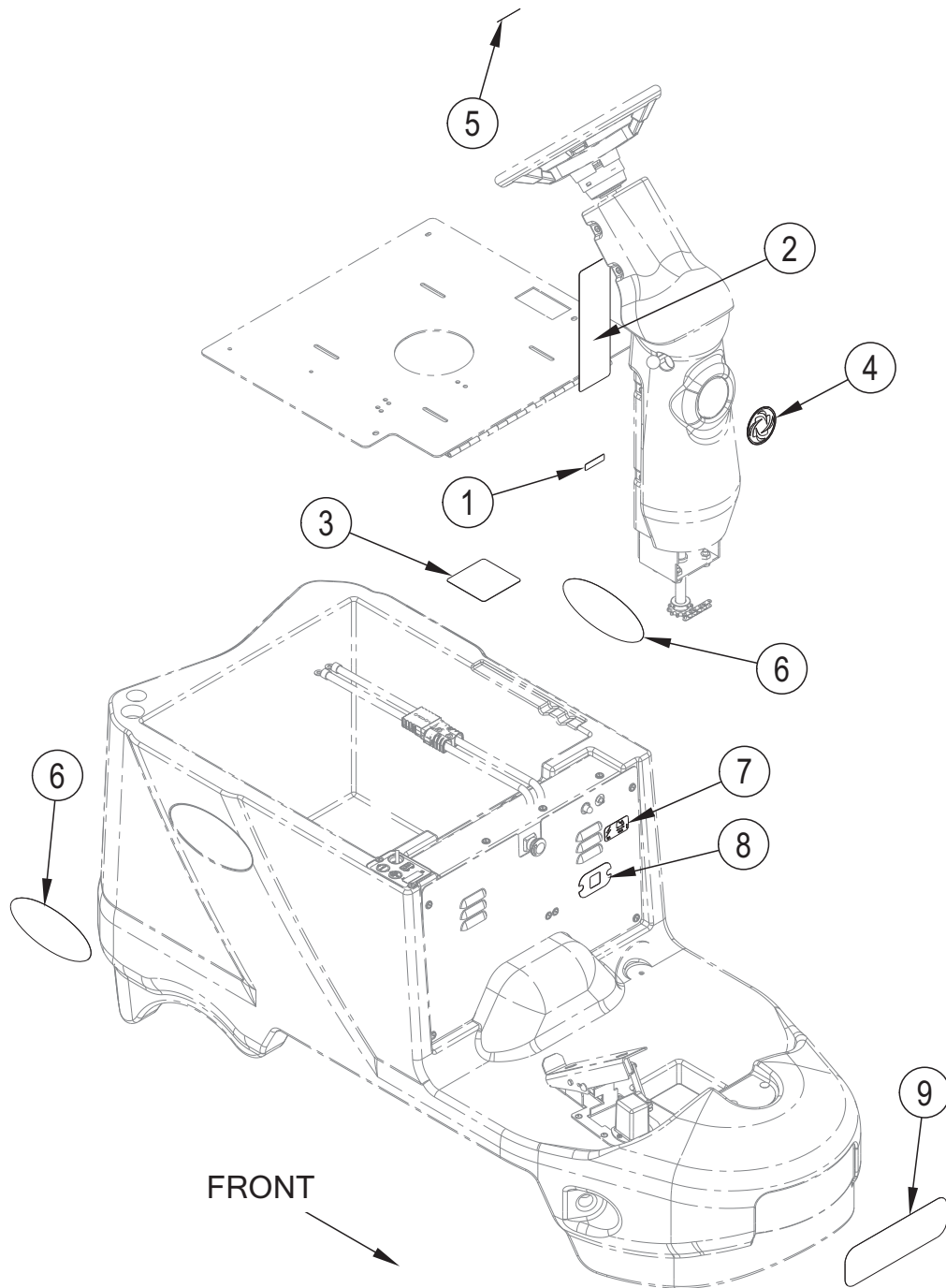
CHASSIS SYSTEM

CHASSIS SYSTEM

Item	Ref. No.	Qty	Description
1	56422177	2	Bushing, M12 x .625 x .535
2	56412209	1	Bracket, Tie Down
3	56009017	2	Wsh, Flt Harden .516 x .938 x .075
4	56002022	3	Wsh, Flt SAE 5/8
5	56001836	1	Scr, Hex 1/4-20 X .62
6	56002131	1	Scr, Soc Hd 5/16-18 X 1.25
7	56002826	1	Nut, Hex Nyl Loc-Thin 5/16-18
8	56002840	1	Nut, Hex Nyl Loc-Thin 1/4-20
9	56003040	4	Scr, Hex Hd Loc 3/8-16x.62
10	56003220	1	Nut, Hex Nyl Loc-Thin 1-14
11	56003394	4	Scr, Flt Soc 5/16-18 X .62
12	56003415	2	Scr, Hex M12-1.75 X 35mm
13	56003442	2	Scr, Hex Loc M10-1.5 X 20mm
14	56003738	4	Scr, Flt Soc M10-1.50 X 25mm
15	56009030	1	Scr, Pan Phil Thd Form 10-24 X .38
16	56009099	1	Nut, Hex Jam 5/8-18
17	56009122	1	Wsh, Flt .344 X .938 X .125
18	56158143	1	Bearing Cup
19	56158151	1	Bearing Cone
20	56171081	1	Seal, Shaft
21	56314032	1	Block, Bearing
22	56314116	1	Plate, Steering
23	56382693	2	Wheel TSB-FC-2015-033
*	56111531	4	Bearing-Ball (2 per wheel)
24	56320595	1	Bushing .32x.50x.28
25	56367117	2	Wsh, Flt .406 X 1.5 X .1875
26	56378380	1	Bearing Ball
27	56420160	2	Bearing, Flange
28	56422020	1	Chassis Weldment
29	56422047	1	Motor / Drive Wheel (M1)
*	56380310	1	Kit-Brake Lever
*	56422150	1	Wheel Drive Tire Kit
*	56422151	1	Replacement Motor
*	56422152	1	Brush & Spring Kit
*	56422172	1	Tire
*	56422173	1	Brake, Electromagnetic
*	56504481	1	Cover, Gearbox Motor
*	56504482	1	Cover, Drive Motor
*	56422174	A/R	Tire Puller Kit
30	56422060	1	Spindle Weldment
31	56422078	1	Latch Assembly
32	56486112	1	Clamp, P

* = Not Shown

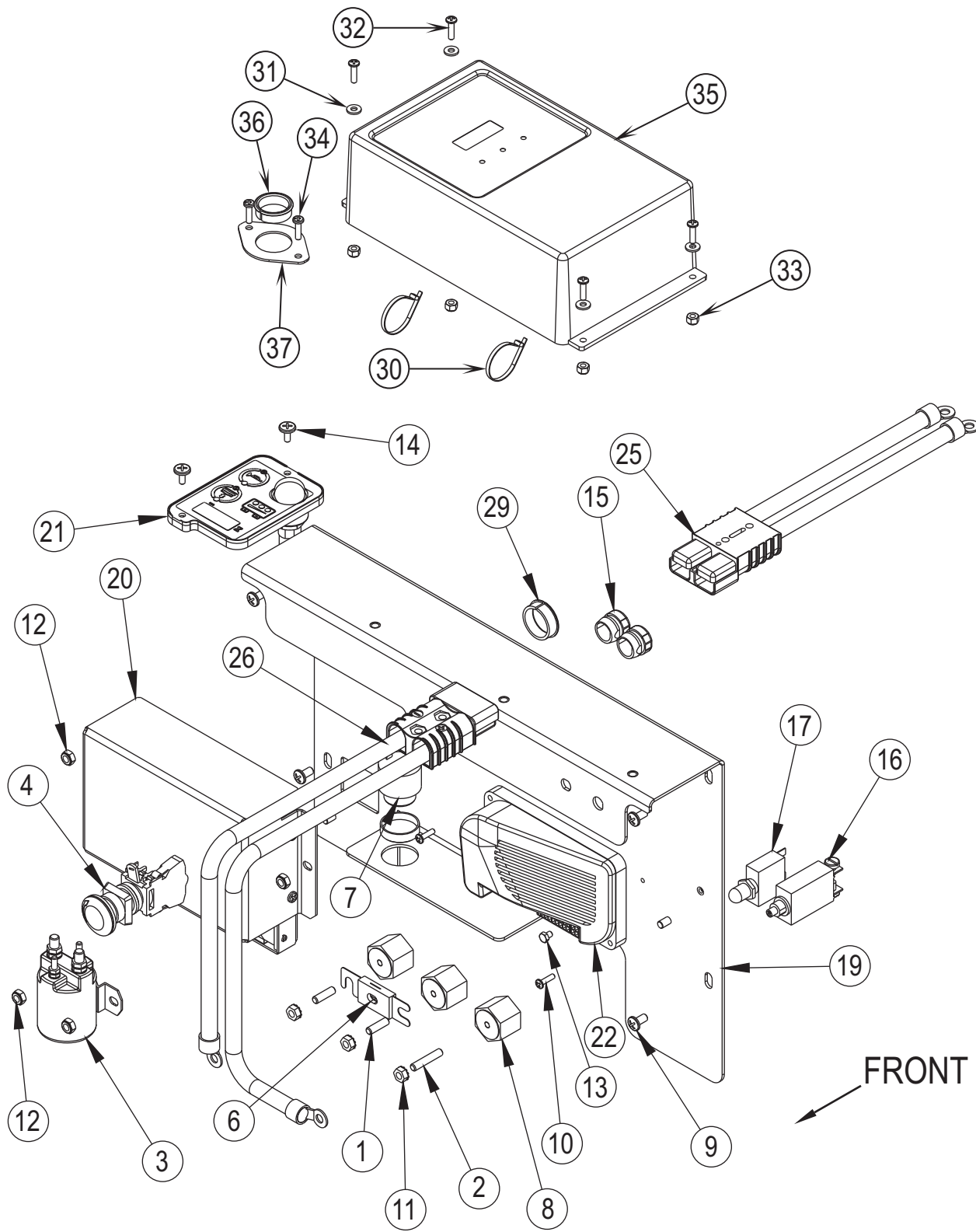
DECAL SYSTEM



DECAL SYSTEM

Item	Ref. No.	Qty	Description
1	56014450	1	Decal, Patent Number
2	56014601	1	Decal, Caution
3	56015242	1	Decal, Battery Wiring
4	56016348	1	Decal, Logo
5	56016421	1	Decal, Logo 2 Inch
6	56015289	2	Decal, Advolution
7	56015296	1	Decal, Circuit Breaker
8	56016146	1	Decal, Emergency Disconnect
9	56511928	1	Decal, Advance

ELECTRICAL SYSTEM



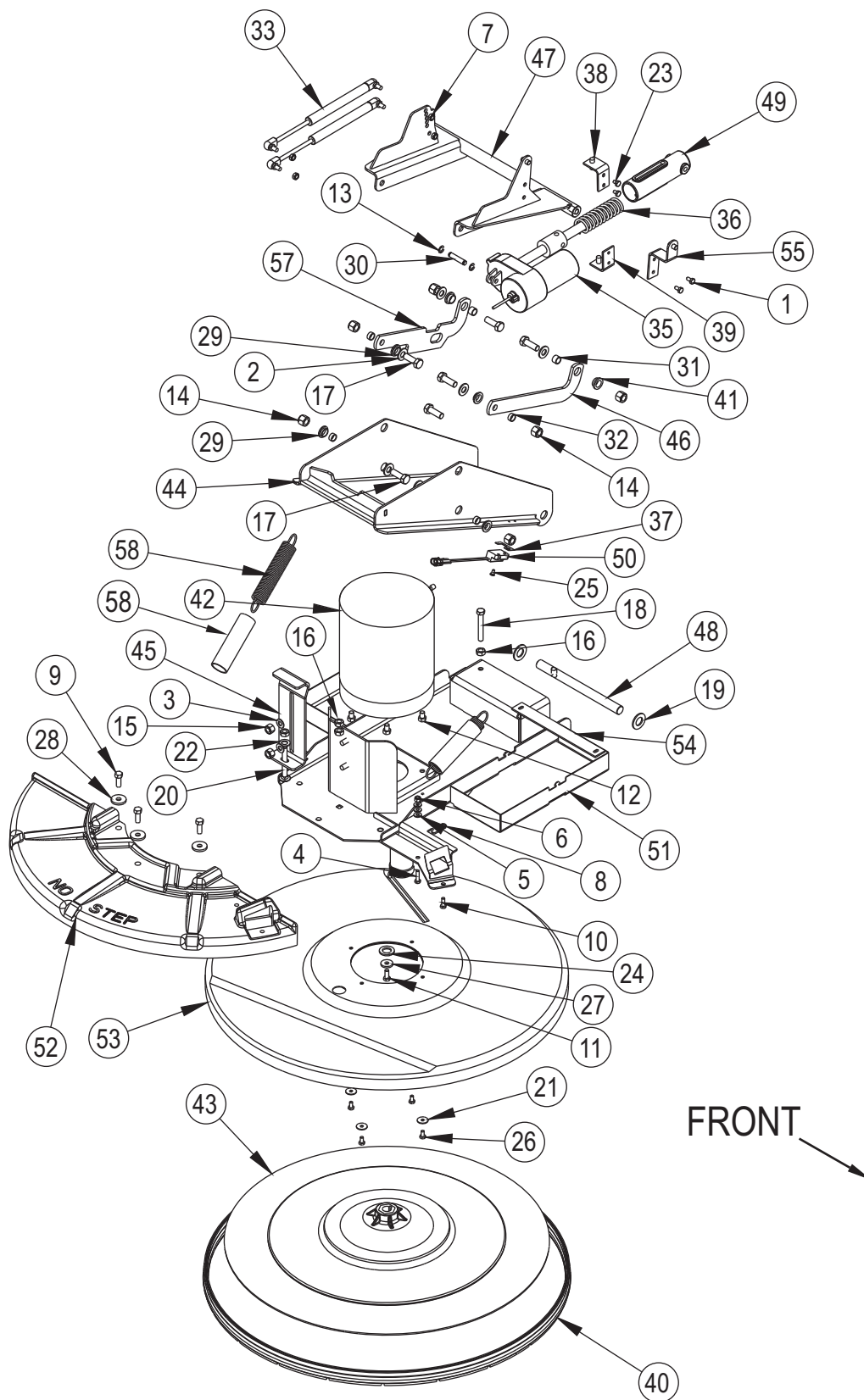
ELECTRICAL SYSTEM

Item	Ref. No.	Qty	Description
1	56009020	2	Stud
2	56009203	1	Stud, 1/4-20
3	56395450	1	Contactora 36v (K1 / Pad Motor)
4	56407130	1	Disconnect, Emergency (S10)
5	56409485	5	Cable, Battery (Not Shown)
6	56412089	1	Fuse, 150 Amp (F1)
7	56412177	1	Horn/Backup Alarm (H1)
8	56469858	3	Electrical Mount
9	56002145	4	Scr, Pan Phil 1/4-20 X .50
10	56002146	2	Scr, Pan Phil 8-32 X .62
11	56002561	3	Nut, Hex W/ Shprf 1/4-20
12	56002840	4	Nut, Hex Nyl Loc-Thin 1/4-20
13	56009063	1	Scr, Hex Thd Form 10-24 X .25
14	56009206	2	Scr, Truss Phil-Blk 10-24 x .50
15	56160512	2	Strain Relief .600
16	56303299	1	Circuit Breaker, 40 Amp (CB2 / Wheel Drive)
17	56315255	1	Circuit Breaker, 5 Amp (CB1 / Control Circuit)
18	56372673	12	Boot, Battery Post (Not Shown)
19	56422070	1	Panel, Electronic
20	56422190	1	Control Box Assembly TSB-FC-2016-267 NOTE 2
21	56422107	1	I/O Panel Assembly
*	1450372000	1	Key Switch (S1)
22	56422114	1	Controller, Speed (A1) TSBUS2008-991
23	56422115	1	Harness, Main (Not Shown)
24	56422116	1	Harness, Traction (Not Shown)
25	56422117	1	Connector Assembly
26	56422118	1	Connector Assembly
27	56422129	1	Cable Asm, Red 4-1 (Not Shown)
28	56422130	1	Cable Asm, Red 4-2 (Not Shown)
29	56422159	1	Bushing, Open/Closed 1.25
30	56478246	2	Cable Tie NOTE 1
31	56001954	4	Wsh, Flt SAE #10 NOTE 1
32	56002192	4	Scr, Pan Phil 10-24 X .75 NOTE 1
33	56002768	4	Nut, Hex Nyl Loc 10-24 NOTE 1
34	56009005	2	Scr, Pan Phil SS Type B 10-16 x .75 NOTE 1
35	56422145	1	Charger, Battery Onboard TSB-FC-2014-028 NOTE 1
36	56422159	1	Bushing, Open/Closed 1.25 NOTE 1
37	56422169	1	Cord Holder NOTE 1

* = Not Shown

NOTE 1: Standard on 56422002 and 56422184 models only.**NOTE 2:** Control Box Assembly 56422100 is obsolete and replaced by 56422182 as of serial number 2062974. Control Box Assembly 56422182 is obsolete and replaced by 56422190 as of serial number 400011163.

PAD DRIVE SYSTEM



PAD DRIVE SYSTEM

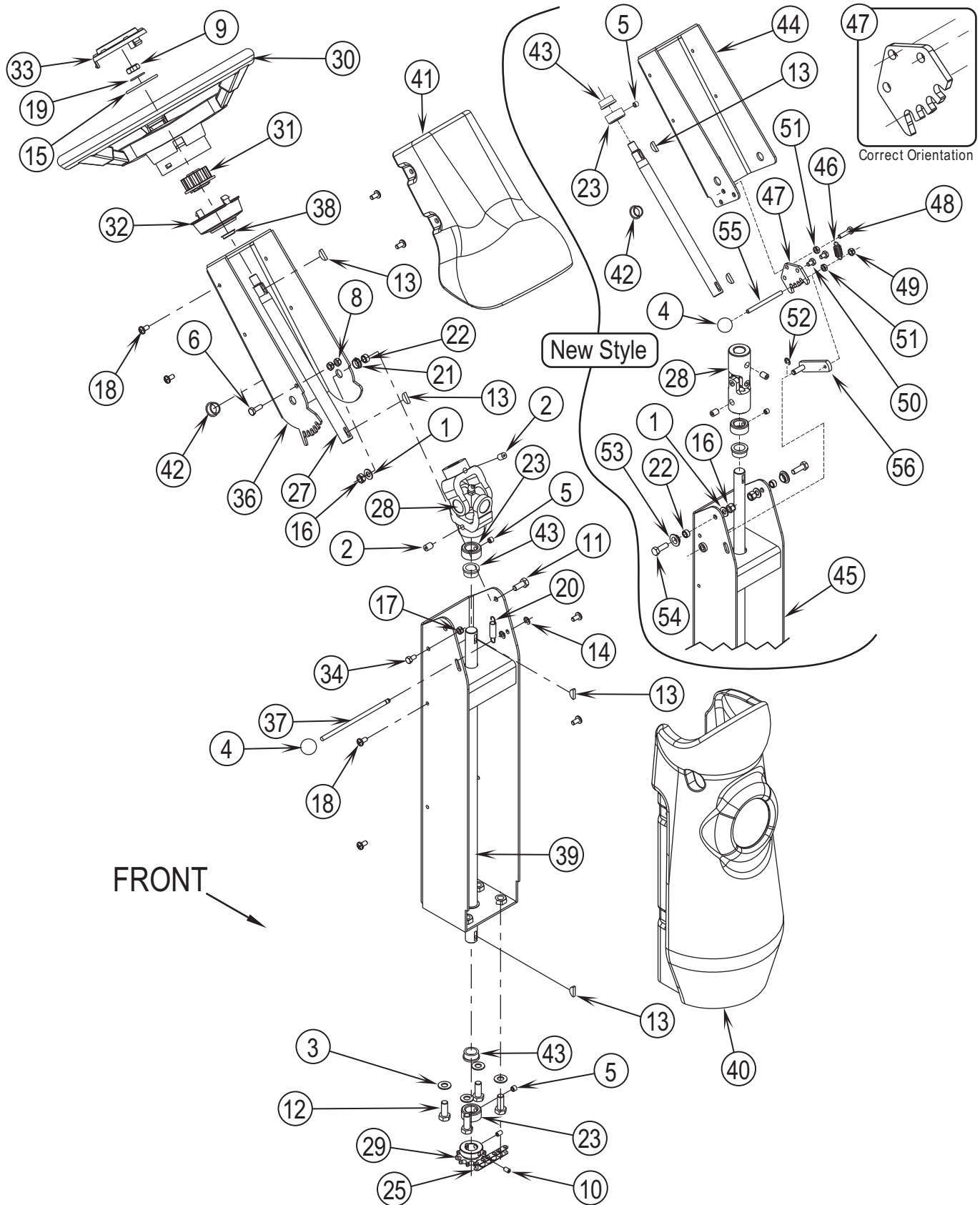
Item	Ref. No.	Qty	Description	Item	Ref. No.	Qty	Description
1	56001854	2	Scr, Hex 1/4-20 X .50	41	56420160	2	Bearing, Flange
2	56009017	6	Wsh, Flt Harden .516 x .938 x .075	42	56422030	1	Motor (M2) TSB-FC-2013-131, TSB-FC-2016-257
3	56002063	4	Wsh, Flt SAE 3/8	*	56422153	1	Brush & Spring Kit
4	56001832	1	Scr, Flt Phil 1/4-20 X 1.00	43	56422187	1	Pad Driver Assy
5	56002098	2	Wsh, Flt SAE 1/4	*	56422095	1	Pad Retainer
6	56002708	1	Nut, Hex Nyl Loc 1/4-20	44	56422036	1	Linkage Weldment
7	56002826	4	Nut, Hex Nyl Loc-Thin 5/16-18	45	56422039	1	Bracket, Adjustable TSBUS2008-990
8	56002840	1	Nut, Hex Nyl Loc-Thin 1/4-20	46	56422041	1	Bar, Linkage
9	56002947	3	Scr, Hex Hd Loc 3/8-16x1.00	47	56422042	1	Linkage, Arm Weldment
10	56002948	1	Scr, Hex Hd Loc 1/4-20x.75	48	56422046	1	Shaft, Pivot
11	56002956	1	Scr, Hex Hd Loc 5/16-18x.75	49	56422084	1	Spring Housing, Actuator
12	56003023	4	Scr, Hex Hd Loc 3/8-16x.50	50	56422126	1	Sensor, Proximity (S3)
13	56003262	2	Ring, Ret Ext Type E 0.38 Dia	51	56422132	1	Weldment, Shroud
14	56003312	6	Nut, Hex Nyl Loc M12-1.75	52	56422137	1	Pad Cover
15	56003406	2	Nut, Hex Nyl Loc M10-1.5	53	56422141	1	Shroud, Dust Assy
16	56003409	4	Nut, Hex M10-1.5	54	56422144	1	Strap, Bag
17	56003415	6	Scr, Hex M12-1.75 X 35mm	55	56422147	1	Weldment, Mount
18	56003422	1	Scr, Hex Thd To Hd M10-1.5 X 70mm	56			Intentionally Omitted
19	56003719	2	Wsh, Flt Nylon .760 X 1.420 X .100	57	56422157	1	Bar, Linkage
20	56003731	1	Scr, Carriage Thd To Hd M10-1-5 X 80 Mm Cl 8.8	58	56422175	1	Kit-Spring Replacement
21	56009002	4	Wsh, Flt .266 X .906 X .060	**	56420163	A/R	Pad, 27"(68.58cm) Natural, Case of 5
22	56009003	2	Wsh, Flt .516 X .938 X .075	**#	56383913	A/R	Pad, 27"(68.58cm) Topline, Case of 5
23	56009019	2	Scr, Hex Thd Form 1/4-20 X .38	**	56422149	A/R	Kit, Linkage Bushings & Hardware
24	56009022	1	Wsh, Flt .754 X 1.250 X .120				(#2, 14, 16-19, 29, 31, 32, 41 & 48)
25	56009030	1	Scr, Pan Phil Thd Form 10-24 X .38				(#1, 3, 12 & 27 on Chassis System)
26	56009033	4	Scr, Hex Thd Form 1/4-20 X .50				
27	56009057	1	Wsh, Flt Harden .344x1.000x.120/.135				
28	56009195	6	Wsh, Flt .406 X 1.25 X .164				
29	56100084	4	Bearing, Flange				
30	56104760	1	Pin				
31	56422176	2	Bushing, M12 x .625 x .440				
32	56422178	4	Bushing, M12 x .625 x .480				
33	56385238	2	Gas Cylinder (before SN 2062973) TSB-FC-2015-027				
	56422179	2	Gas Cylinder (after SN 2062973)				
*	56391185	1	Bag, Disposable, 6 Pack				
35	56393303	1	Actuator, Motor (M3)				
36	56407199	1	Compression Spring (before SN 2062973)				
	56422180	1	Compression Spring (after SN 2062973)				
37	56409769	1	Clip, Weatherpack Mount				
38	56420019	1	Nut Retainer				
39	56420020	1	Nut Retainer				
40	56420024	1	Skirt Assembly				

* = Not Shown

** = Optional, Not Included

= Revised or new since last update

STEERING SYSTEM



STEERING SYSTEM

Item	Ref. No.	Qty	Description
1	56001939	2	Wsh, Flt SAE 5/16
2	56001958	2	Scr, Soc Set Loc 3/8-16 x .50
3	56002063	4	Wsh, Flt SAE 3/8
4	56440817	1	Knob
4	56414088	1	Knob NOTE 6
5	56002086	2	Scr, Soc Set Loc 5/16-18 x .25 NOTE 4
6	56002155	1	Scr, Hex Hd 1/4-20 x .75 NOTE 1
8	56002840	2	Nut, Hex Nyl Loc-Thin 1/4-20 NOTE 1
9	56002843	1	Nut, Hex Nyl Loc-Thin 1/2-13
10	56002930	2	Scr, Soc Set Loc 1/4-20 x .38
11	56003179	2	Scr, Hex Thd To Hd M8-1.25 x 20mm NOTE 1
12	56003186	4	Scr, Hex Thd To Hd M10-1.50 x 25mm
13	56003228	4	Key, WDF .75 x .19
14	56003268	2	Ring, Ret Ext Type E Reinf .25 Dia NOTE 1
15	56003342	1	Wsh, Flt .88 x .25 x .13
16	56003389	2	Nut, Hex Nyl Loc M8-1.25
17	56003403	1	Nut, Hex Nyl Loc M6-1.00 NOTE 1
18	56009062	8	Scr, Pan Phil Thd Form 1/4-20 x .50
19	56001879	1	Wsh, Flt SAE 1/2
20	56245008	1	Spring, Extension NOTE 1
21	56302164	2	Bearing, Flange NOTE 1
22	56320595	2	Bushing .32 x .50 x .28
23	56367095	2	Collar, Shaft NOTE 4
25	56412198	1	Chain, Roller
27	56420059	1	Shaft, Upper Steering
28	56454081	1	Universal Joint
29	56471148	1	Sprocket
30	56497306	1	Steering Wheel
31	56497560	1	Wheel Adapter
32	56497308	1	Cup
33	56497543	1	Cap
34	56003155	1	Scr, Hex M6-1.00 x 12mm NOTE 1
35#			DELETED
36	56314093	1	Column, Steering NOTE 1
37	56314094	1	Rod, Steering lock NOTE 1
38	56314148	1	Bearing, Nyliner NOTE 1
39	56422048	1	Shaft, Lower Steering
40	56314295	1	Shroud, Lower Column
41	56314296	1	Shroud, Upper Column
42	56900041	1	Plug, Cap
43	56250414	2	Bearing, Flange NOTE 3

Item	Ref. No.	Qty	Description
44	56413657	1	Column, Upper NOTE 2
45#	56384447	1	Lower Column Weldment NOTE 5
45	56414084	1	Lower Column Weldment
46	56305072	1	Spring, Extension .075 NOTE 5
46	56112054	1	Spring, Extension .43 x 1.75
47	56413658	1	Ratchet, Steering Column NOTE 5
47	56414075	1	Ratchet, Steering Column NOTE 7
48	56002093	1	Scr, Hex 1/4-20 x 1.00 NOTE 2
49	56002840	1	Nut, Hex Nyl Loc-Thin 1/4-20 NOTE 5
49	56002866	1	Nut, Hex Nyl Loc-Thin 1/4-20
50	56002933	2	Scr, Hex Hd Loc 1/4-20 x .38 NOTE 2
51	56003145	2	Nut, Hex Jam SS 1/4-20 NOTE 5
51	56001884	2	Nut, Hex Jam SS 1/4-20
52	56003261	1	Ring, Ret Ext Type E 0.31 Dia NOTE 2
53	56413211	2	Bearing, Flange .625 x .500 x .250 NOTE 2
54	56003436	2	Scr, Hex SS M8-1.25 x 25mm NOTE 2
55	56413664	1	Rod NOTE 5
55	56414078	1	Rod
56	56413661	1	Steering Pawl Weldment NOTE 5
56	56414081	1	Steering Pawl Weldment

NOTE 1: Used on machines built before serial number 1942960.

NOTE 2: Used on machines built after serial number 1942959.

NOTE 3: Quantity of 3 after serial number 1942960.

NOTE 4: Quantity of 3 after serial number 1000044512.

NOTE 5: For machines built before November 2015 the Lower Column Weldment part number was 56413659 which is no longer available. To replace order Steering Upgrade Kit 56384447.

NOTE 6: Used on machines built after serial number 1942959

NOTE 7: Install item 47 so that the ratchet teeth are facing the rear as shown in the Item 47 inset (Correct Orientation).

= Revised or new since last update

Wiring diagram for the Curtis 1228 Speed Controller. The diagram shows the connection of a 36VDC battery (BATT1) through a fuse (F1) to the controller's power input. The controller's output is connected to a traction motor (M1) via a 5-pin connector (J7). The motor's ground is connected to the chassis. A brake solenoid (Y1) is connected to the controller's brake output and a 24VDC source. A 5K potentiometer (R1) is connected to the controller's speed input and a 24VDC source. The diagram also shows the connection of a seat switch (S2) to the controller's brake input. The controller is labeled 'CURTIS 1228 SPEED CONTROLLER' and 'A1'.

LADDER DIAGRAM

<u>Item</u>	<u>Ref. No.</u>	<u>Qty</u>	<u>Description</u>
A1	56422114	1	Speed Controller TSBUS2008-991
	56422190	1	Control Box TSB-FC-2016-267 NOTE 1
	56422107	1	I/O Panel
BT	A/R		Battery, 36V
CB1	56315255	1	Circuit Breaker, 5 Amp (Control)
CB2	56303299	1	Circuit Breaker, 40 Amp (Traction Drive)
F1	56412089	1	Fuse, 150 Amp
H1	56412177	1	Horn / Back-Up Alarm
K1	56395450	1	Contactor 36V (Pad Motor)
LP5#	56314313	1	Headlight (Optional)
LP6	56307166	1	Beacon, Warning (Optional)
M1	56422047	1	Motor / Drive Wheel
*	56380310	1	Kit-Brake Lever
*	56422150	1	Wheel Drive Tire Kit
*	56422151	1	Replacement Motor
*	56422152	1	Brush & Spring Kit
*	56422172	1	Tire
*	56422173	1	Brake, Electromagnetic
*	56504481	1	Cover, Gearbox Motor
*	56504482	1	Cover, Drive Motor
M2	56422030	1	Motor (Pad Drive)
*	56422153	1	Brush & Spring Kit
M3	56393303	1	Actuator, Motor
R1	56454740	1	Potentiometer, 5K
S1	1450372000	1	Switch, Key (Main)
S2#	7-82-00050	1	Switch (Seat)
S3	56422126	1	Sensor, Proximity
S5	NA	1	Part of LP5
S9	NA	1	Part of M4
S10	56407130	1	Disconnect, Emergency
Y1	NA	1	Part of M1
*	56422115	1	Harness, Main
*	56422116	1	Harness, Traction
*	56409485	5	Cable, Battery

* = Not Shown

= Revised or new since last update

NOTE 1: Control Box Assembly 56422100 is obsolete and replaced by 56422182 as of serial number 2062974. Control Box Assembly 56422182 is obsolete and replaced by 56422190 as of serial number 400011163.

OPTIONAL KITS & ACCESSORIES

Item	Ref. No.	Qty	Description
<u>Optional Kits</u>			
**	56314313	1	Kit, Headlight
**	56397453	1	Kit, Battery Fill Indicator
**	56383188	1	Arm Rest Kit R/H + L/H (only for 56383187, seat with plastic seat pan)
**	56314981	1	Kit, Battery Watering
**	56422098	1	Kit, Beacon
**	56422156	1	Kit, Onboard Charger
**	56422186	1	Kit, AGM Onboard Charger
**	56422162	1	Kit, Seat Belt
<u>Active Dust Control Options</u>			
**	1406554010	1	Dust Bag, .58 Gallon, 5 pack (Standard)
**	1406794010	1	Round Motor Protection Filter, STD. with Non-Hepa
**	1406597500	1	Exhaust Filter, 3 pack (Standard)
**	1407160010	1	HEPA Filter, Round (Optional)
**	1406908000	1	Cloth Dust Bag, Reusable, Shake Out (Optional)

NOTE: Replacement parts for the kits listed above can be found on each kit's associated instruction sheet.

<u>Accessories</u>			
**	56383571	1	Programmer-User
**	56383572	1	Programmer Cable-Molex
**	56420163	1	Pad, 27"(68.58cm) Natural, Case of 5
**#	56383913	1	Pad, 27"(68.58cm) Topline, Case of 5
**	56044383	1	Literature Pack

** = Optional, Not Included

= Revised or new since last update

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