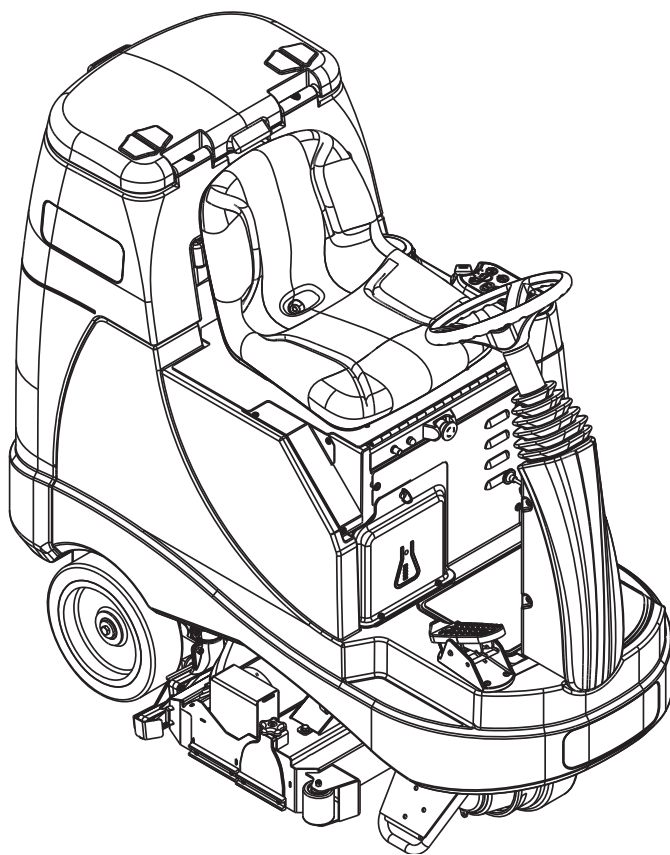


ES4000

Parts List

3/2011 revised 5/2020 REV I
Form no. 56042573



Models:
56344200, 56344210

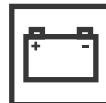


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WHEN ORDERING PARTS

- * Use the part numbers from the "Ref. No." columns in this parts list. If the "Ref. No." column is blank; look under the "Kit" column to identify which kit contains the part in question, then use the kit callout, for example "K1", to find the "Ref. No." for that kit.

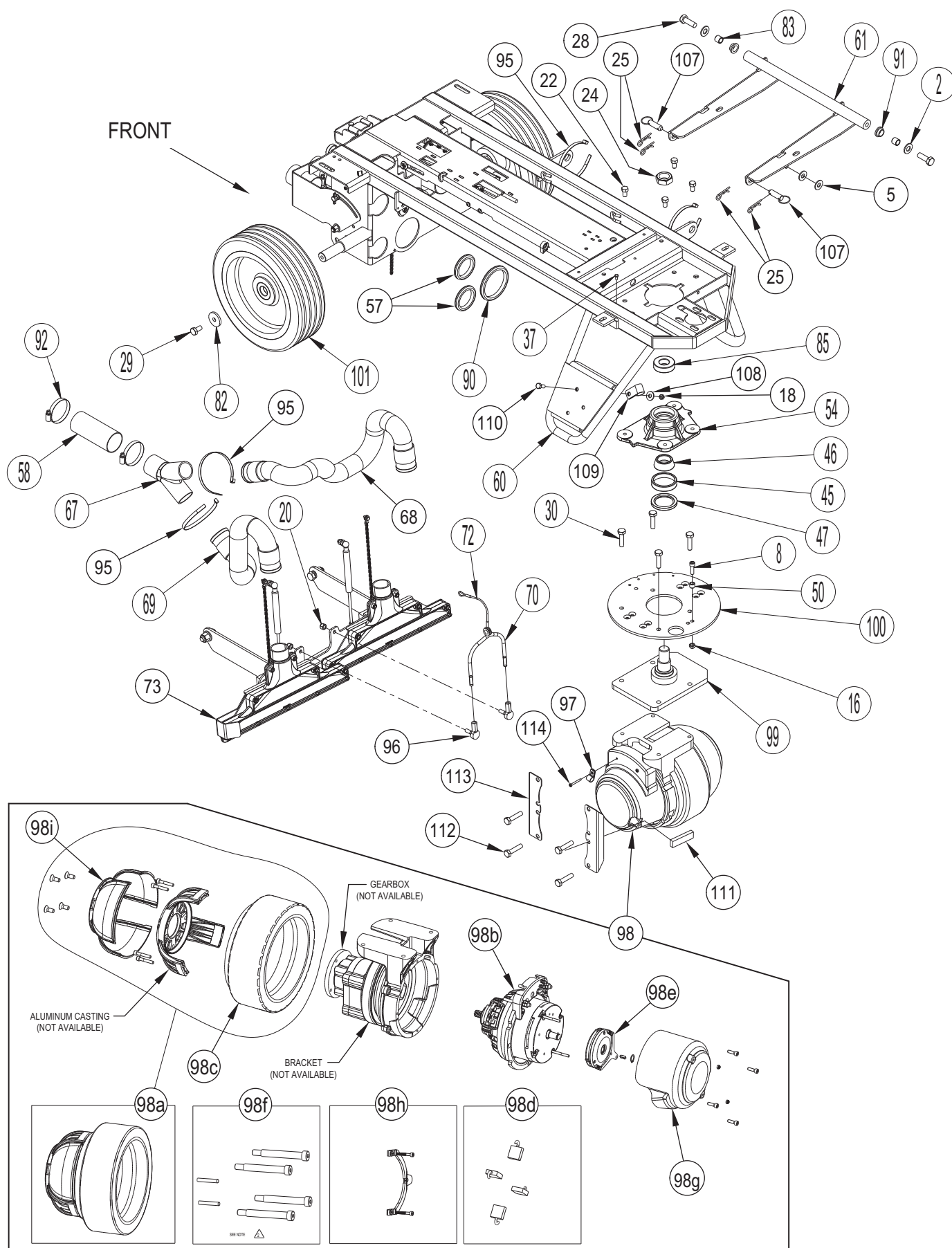
Kit	Item	Ref. No.	Qty	Description
K1	1		16	Washer Flat 3/16 Zinc Plat
K1	2		2	Screw-BHS-Brass-10-32x3/8-MS
K1	3		3	Washer EPDM 7/32 X 1/8
	4	805	1	Chain-Cover
	5	905	2	Caster Swivel 4 Gray Non MA
K1	6		2	Nut, Hex Nyl Loc 10-24
K1	7		3	Scr- Hex SS 1/4-20 X .75
K1	8		16	Scr, Hex Hd Loc 1/4-20 x .50
K1	9		3	Wsh, Flt SS .260 X 1.000 X .074
	10	56113012	1	Solution Tank
	11	56113034	2	Hinge Plate
K1		56113103	1	Kit-Hardware Solution Tank

- * Specify the model and serial number of the machine.

- * Use the space below to record the model and serial number for future reference.

Model _____ Serial No. _____

CHASSIS SYSTEM-1



CHASSIS SYSTEM-1

Kit	Item	Ref. No.	Qty	Description
	1	56418162	2	Bearing, Flange
K1	2		2	Wsh-Fit Sae 1/2
K4	4		3	Scr. Soc Hd 5/16-18 X 0.75
K1	5		2	Wsh, Fit Std 3/8
K4	6		2	Wsh, Fit Sae 3/8
K4	7		1	Scr-Pan Phil 1/4-20 X .62
K4	8		1	Scr. Soc Hd 5/16-18 X 1.00
K4,K15	9		2	Wsh, Fit Sae #8
K5	10		2	Pin,Cotter 1/8 X 1
K4	11		2	Scr. Hex 3/8-16 X 1.00
K4,K15	12		2	Scr-Pan Phil 10-24 X 1.00
K4	13		1	Nut, Hex Nyl Loc 5/16-18
K4	14		1	Nut, Hex Nyl Loc 1/4-20
K4	15		2	Nut-Hex Nyl Loc 3/8-16
K4	16		1	Nut, Hex Nyl Loc-Thin 5/16-18
K4,K15	17		2	Nut, Hex Nyl Loc-Thin 10-24
K4	18		2	Nut, Hex Nyl Loc-Thin 1/4-20
K5,K6	19		4	Wsh-Fit Sae Ss 3/8
K4	20		2	Nut, Hex Nyl Loc 5/16-24
K4	21		2	Scr. Pan Phil Ss 8-32 X .38
K2,K4	22		4	Scr.Hex Hd Loc 3/8-16x.62
K5,K6	23		4	Pin-Clevis .25 X 1.25
K4	24		1	Nut, Hex Nyl Loc-Thin 1-14
K1,K4,	25		6	Pin, Cotter Hair
K5				
K6	26		2	Ring, Ret Ext Type E 0.38 Dia
K4	27		1	Scr. Hex 5/16-18 X 3.75
K1	28		2	Scr. Hex Loc M12-1.75 X 35mm
K4	29		2	Scr. Hex Loc M10-1.5 X 20mm
K4	30		4	Scr-Hex M10-1.5 X 40mm
K5	31		1	Pin-Clevis .50 X 1.25
K5,K6	32		4	Cotter, Hair Pin
K4	33		2	Pin-Clevis .375 X 1.75
K4	35		1	Wsh-Fit Ss .281 X 1.25 X .05
K4	36		1	Wsh, Int Shprf #10
K4	37		2	Scr. Hex Thd Form 10-24 X .38
K4	39		1	Nut-Hex Jam Ss 5/8-18
K5	40		1	Nut, Hex Jam 5/16-18
K4	41		1	Wsh, Fit .344 X .938 X .125
K4	42		2	Scr. Button Soc 1/4-20 X .50
	43	56056871	1	Grommet
K15	44	56109503	1	Double Barb Assy
K2,K3	45		1	Bearing Cup
K2,K3	46		1	Bearing Cone
K2,K3	47		1	Seal,Shaft
K15	48	56219932	1	Clamp- Hose Sae #6
	50	56244941	1	Bushing
	51	56265033	1	Mount, Pump
	52	56265208	1	Socket-1/8 Fpt
	53	56305024	1	P-Clamp
K2	54		1	Block, Bearing
	55	56317024	1	Valve, Solenoid 24v (L1)
K15	56		1	Pump, 24vdc (M9, S5)
	[]	56109587	1	Pump Head Assembly (for 56344177)
	[]	56109588	1	Check Valve Assembly (for 56344177)
	57	56324195	2	Grommet
	58	56324358	1	Hose, Vac 2.00 X 5.00 X 975018
	59	56324505	2	Bearing, Flange
	60	56344033	1	Chassis Weldment
	61	56344041	1	Deck Linkage Weldment
	62	56344043	1	Pulley-Wire Rope
	63	56344056	1	Bracket-Actuator Weldt
	64	56344057	1	Bracket-Actuator
	65	56344059	1	Yoke Weldment
	66	56344064	1	Valve Assembly (See Page 11)
	67	56344070	1	Y-Tube
	68	56344075	1	Hose Assembly
	69	56344086	1	Hose Assembly

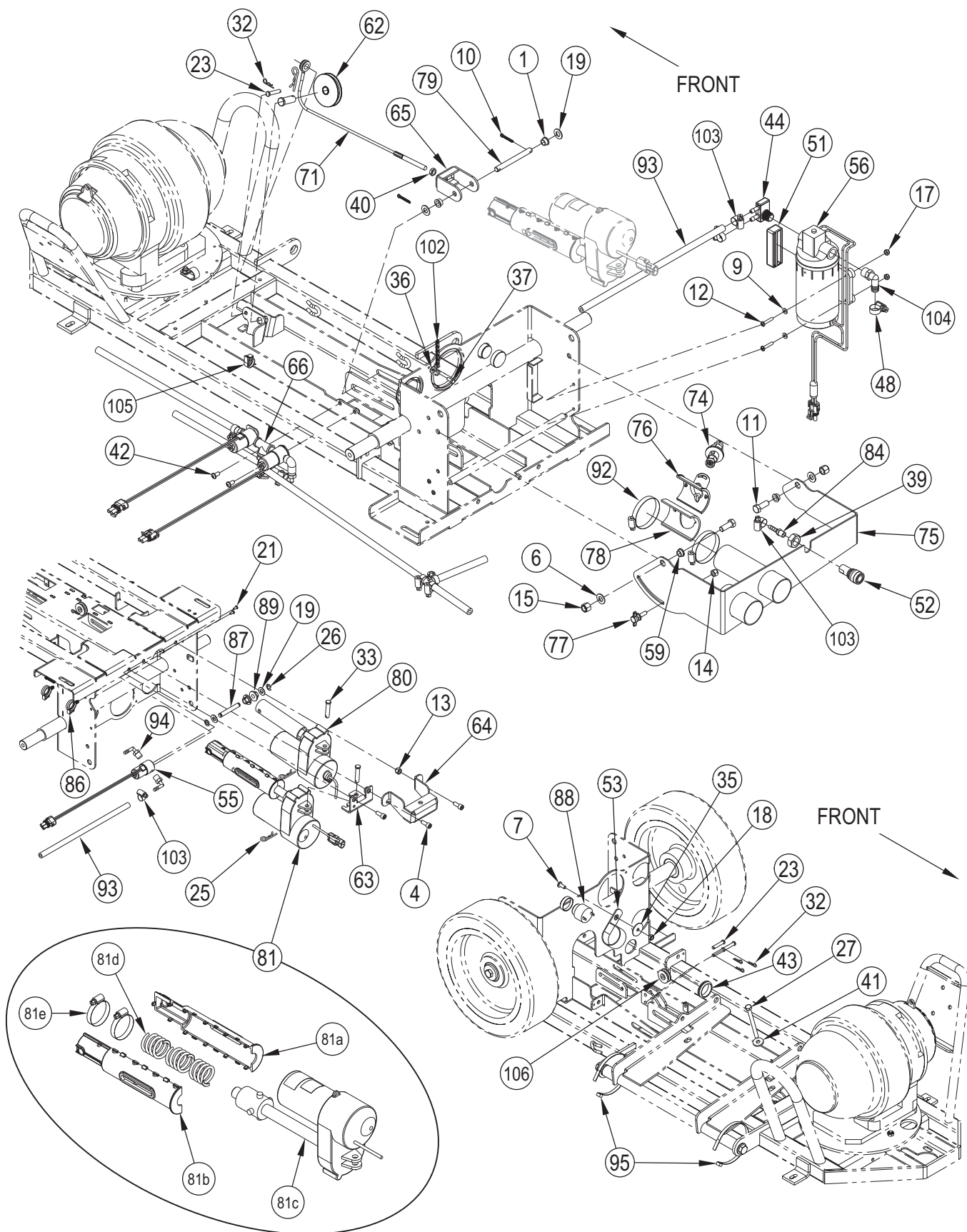
Kit	Item	Ref. No.	Qty	Description
	70	56344107	1	Lift Bar
	71	56344108	1	Wire Rope Assembly
	72	56344111	1	Wire Rope Assembly
	73	56344122	1	Shoe Linkage Assembly (See Page 10)
	74	56344132	1	Misting Nozzle Assy
	[]	56344150	1	Nozzle-Quick Veejet W/Body
	75	56344143	1	Connector Bracket Weldment
	76	56344151	1	Misting Chamber Adapter
	77	56344153	1	T-Knob Assembly
	78	56344154	1	Gasket
	79	56344157	1	Pin
	80	56344160	1	Actuator-Motor 24v (M3)
	81	56344161	1	Lift Actuator Assembly (M4)
	81a	56109546	1	Spring Housing
	81b	56109547	1	Spring Housing
	81c	56109597	1	Actuator-Motor
	81d	56412071	3	Compression Spring
	81e	56329145	2	Clamp-Hose SAE 24
	82	56367117	2	Wsh, Fit .406 X 1.5 X .1875
K1	83		2	Bushing
	84	56369594	1	Barb, Adapter 1/4 X 1/8npt
K2,K3	85		1	Bearing Ball
	86	56410247	2	Clip, Conduit
	87	56412088	1	Pin
	88	56412177	1	Horn/Backup Alarm (H1)
K6	89		2	Spacer, Squeegee Cable
K5	90		1	Grommet
K1	91		2	Bearing, Flange
	92	56440213	4	Clamp- Hose Sae #32
	93	56456560	2	15.00" Hose
	94	56470138	2	Barb, 90 Elbow 1/4 X 1/4npt
	95	56477613	4	Tie, Cable
	96	56477756	2	Rod End
	97	56486112	1	Clamp-P
	98	56601050	1	Motor / Drive Wheel (M1)
	98a	56601472	1	Kit, Drive Motor Tire W/Hub (for 56601050)
	98b	56601473	1	Replacement Motor, Drive Motor (for 56601050)
	98c	56601471	1	Tire (for 56601050)
	98d	56601509	1	Carbon Brush Kit (for 56601050)
	98e	56601507	1	Brake, Electromagnetic (for 56601050) (Y1)
	98f	56422174	1	Tire Puller Kit (for 56601050)
	98g	56504482	1	Drive Motor Cover (for 56601050)
	98h	56380310	1	Kit, Brake Lever (for 56601050)
	98i	56504481	1	Cover, Gearbox Motor (for 56601050)
	99	56601077	1	Spindle Weldt
	100	56314116	1	Plate Steering
	101	56382693	2	Wheel TSB-FC-2015-033
	102	56601716	1	Ground Chain
K15	103	56756364	6	Clamp- Hose Sae #4
K15	104	56109566	1	Barb, 90 Elbow 1/2 X 3/8npt
	105	56900756	1	Clip, Conduit
	106	57275a	1	Pulley Squ. Cable
K1	107		2	Pin Ring .500 X 1.18
	108	56002220	1	Wsh Fit STD 5/16
	109	56469380	1	Clamp-P
	110	56002667	1	Scr Hex 5/16-18 X .75
	111	56418703	1	Gasket Strip
	112	56003445	4	Scr Hex Nyl Loc M10-1.50x45mm
	113	56344100	2	Bracket Wheel
	114	L08603733	1	Screw M4 X 40

Service Kits

K1	56344180	1	Hardware Kit – Deck Linkage
K2	56344188	1	Bearing Block Assembly
K3	56344181	1	Bearing Kit – Spindle
K4	56344185	1	Hardware Kit – Chassis
K5	56344186	1	Hardware Kit – Deck Lift
K6	56344187	1	Hardware Kit – Shoe Lift
K15	56344177	1	Pump Kit

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CHASSIS SYSTEM-2

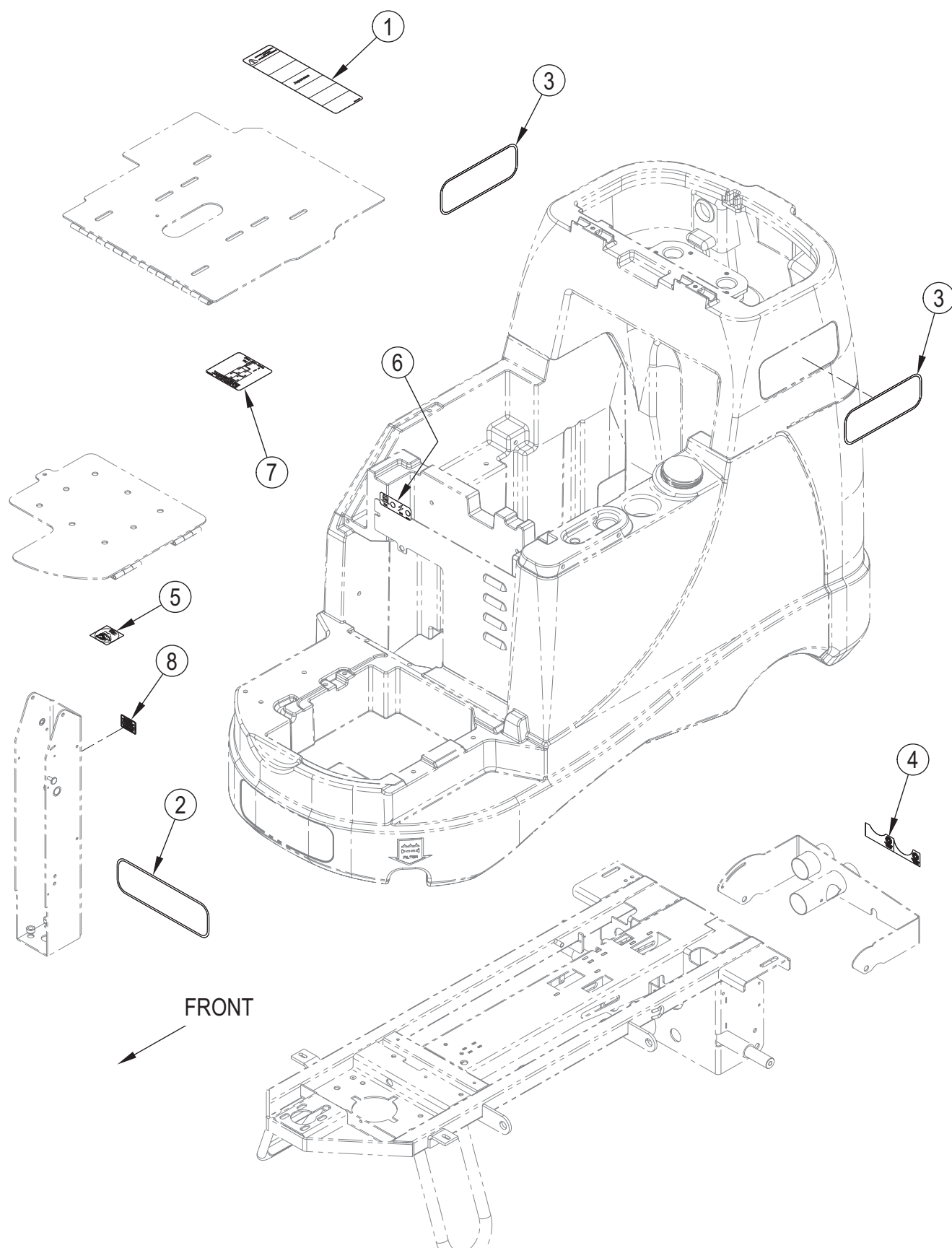


CHASSIS SYSTEM-2

Kit	ItemRef. No.	Qty	Description	Kit	ItemRef. No.	Qty	Description
	156418162		2Bearing, Flange	70	56344107	1	Lift Bar
K1 2			2Wsh-Fit Sae 1/2	71	56344108	1	Wire Rope Assembly
K4 4			3Scr. Soc Hd 5/16-18 X 0.75	72	56344111	1	Wire Rope Assembly
K1 5			2Wsh, Flt Std 3/8	73	56344122	1	Shoe Linkage Assembly (See Page 10)
K4 6			2Wsh, Flt Sae 3/8	74	56344132	1	Misting Nozzle Assy
K4 7			1Scr-Pan Phil 1/4-20 X .62	[]	56344150	1	Nozzle-Quick Veejet W/Body
K4 8			1Scr. Soc Hd 5/16-18 X 1.00	75	56344143	1	Connector Bracket Weldment
K4,K15 9			2Wsh, Flt Sae #8	76	56344151	1	Misting Chamber Adapter
K5 10			2Pin,Cotter 1/8 X 1	77	56344153	1	T-Knob Assembly
K4 11			2Scr. Hex 3/8-16 X 1.00	78	56344154	1	Gasket
K4,K15 12			2Scr-Pan Phil 10-24 X 1.00	79	56344157	1	Pin
K4 13			1Nut, Hex Nyl Loc 5/16-18	80	56344160	1	Actuator-Motor 24v (M3)
K4 14			1Nut, Hex Nyl Loc 1/4-20	81	56344161	1	Lift Actuator Assembly (M4)
K4 15			2Nut-Hex Nyl Loc 3/8-16	81a	56109546	1	Spring Housing
K4 16			1Nut, Hex Nyl Loc-Thin 5/16-18	81b	56109547	1	Spring Housing
K4,K15 17			2Nut, Hex Nyl Loc-Thin 10-24	81c	56109597	1	Actuator-Motor
K4 18			2Nut, Hex Nyl Loc-Thin 1/4-20	81d	56412071	3	Compression Spring
K5,K6 19			4Wsh-Fit Sae Ss 3/8	81e	56329145	2	Clamp-Hose SAE 24
K4 20			2Nut, Hex Nyl Loc 5/16-24	82	56367117	2	Wsh, Flt .406 X 1.5 X .1875
K4 21			2Scr. Pan Phil Ss 8-32 X .38	K1 83		2	Bushing
K2,K4 22			4Scr.Hex Hd Loc 3/8-16x.62	84	56369594	1	Barb. Adapter 1/4 X 1/8npt
K5,K6 23			4Pin-Clevis .25 X 1.25	K2,K3 85		1	Bearing Ball
K4 24			1Nut, Hex Nyl Loc-Thin 1-14	86	56410247	2	Clip, Conduit
K1,K4, 25			6Pin, Cotter Hair	87	56412088	1	Pin
K5				88	56412177	1	Horn/Backup Alarm (H1)
K6 26			2Ring, Ret Ext Type E 0.38 Dia	K6 89		2	Spacer, Squeegee Cable
K4 27			1Scr. Hex 5/16-18 X 3.75	K5 90		1	Grommet
K1 28			2Scr. Hex Loc M12-1.75 X 35mm	K1 91		2	Bearing, Flange
K4 29			2Scr. Hex Loc M10-1.5 X 20mm	92	56440213	4	Clamp- Hose Sae #32
K4 30			4Scr-Hex M10-1.5 X 40mm	93	56456560	2	15.00" Hose
K5 31			1Pin-Clevis .50 X 1.25	94	56470138	2	Barb. 90 Elbow 1/4 X 1/4npt
K5,K6 32			4Cotter, Hair Pin	95	56477613	4	Tie, Cable
K4 33			2Pin-Clevis .375 X 1.75	96	56477756	2	Rod End
K4 35			1Wsh-Fit Ss .281 X 1.25 X .05	97	56486112	1	Clamp-P
K4 36			1Wsh, Int Shprf #10	98	56601050	1	Motor / Drive Wheel (M1)
K4 37			2Scr. Hex Thd Form 10-24 X .38	98a	56601472	1	Kit, Drive Motor Tire W/Hub (for 56601050)
K4 39			1Nut-Hex Jam Ss 5/8-18	98b	56601473	1	Replacement Motor, Drive Motor (for 56601050)
K5 40			1Nut, Hex Jam 5/16-18	98c	56601471	1	Tire (for 56601050)
K4 41			1Wsh, Flt .344 X .938 X .125	98d	56601509	1	Carbon Brush Kit (for 56601050)
K4 42			2Scr. Button Soc 1/4-20 X .50	98e	56601507	1	Brake, Electromagnetic (for 56601050) (Y1)
4356056871			1Grommet	98f	56422174	1	Tire Puller Kit (for 56601050)
K154456109503			1Double Barb Assy	98g	56504482	1	Drive Motor Cover (for 56601050)
K2,K3 45			1Bearing Cup	98h	56380310	1	Kit, Brake Lever (for 56601050)
K2,K3 46			1Bearing Cone	98i	56504481	1	Cover, Gearbox Motor (for 56601050)
K2,K3 47			1Seal, Shaft	99	56601077	1	Spindle Weldt
K154856219932			1Clamp- Hose Sae #6	100	56314116	1	Plate Steering
5056244941			1Bushing	101	56382693	2	Wheel TSB-FC-2015-033
5156265033			1Mount, Pump	102	56601716	1	Ground Chain
5256265208			1Socket-1/8 Fpt	K15 103	56756364	6	Clamp- Hose Sae #4
5356305024			1P-Clamp	K15 104	56109566	1	Barb. 90 Elbow 1/2 X 3/8npt
K2 54			1Block, Bearing	105	56900756	1	Clip, Conduit
5556317024			1Valve, Solenoid 24v (L1)	106	57275a	1	Pulley Squ. Cable
K1556			1Pump, 24vdc (M9, S5)	K1 107		2	Pin, Ring .50 X 1.25
[]56109587			1 Pump Head Assembly (for 56344177)	108	56002220	1	Wsh Fit STD 5/16
[]56109588			1 Check Valve Assembly (for 56344177)	109	56469380	1	Clamp-P
5756324195			2Grommet	110	56002667	1	Scr Hex 5/16-18 X .75
5856324358			1Hose, Vac 2.00 X 5.00 X 975018	111	56418703	1	Gasket Strip
5956324505			2Bearing, Flange	112	56003445	4	Scr Hex Nyl Loc M10-1.50x45mm
6056344033			1Chassis Weldment	113	56344100	2	Bracket Wheel
6156344041			1Deck Linkage Weldment	114	L08603733	1	Screw M4 X 40
6256344043			1Pulley-Wire Rope				
6356344056			1Bracket-Actuator Weldt				
6456344057			1Bracket-Actuator				
6556344059			1Yoke Weldment				
6656344064			1Valve Assembly (See Page 11)				
6756344070			1 Y-Tube				
6856344075			1Hose Assembly				
6956344086			1Hose Assembly				

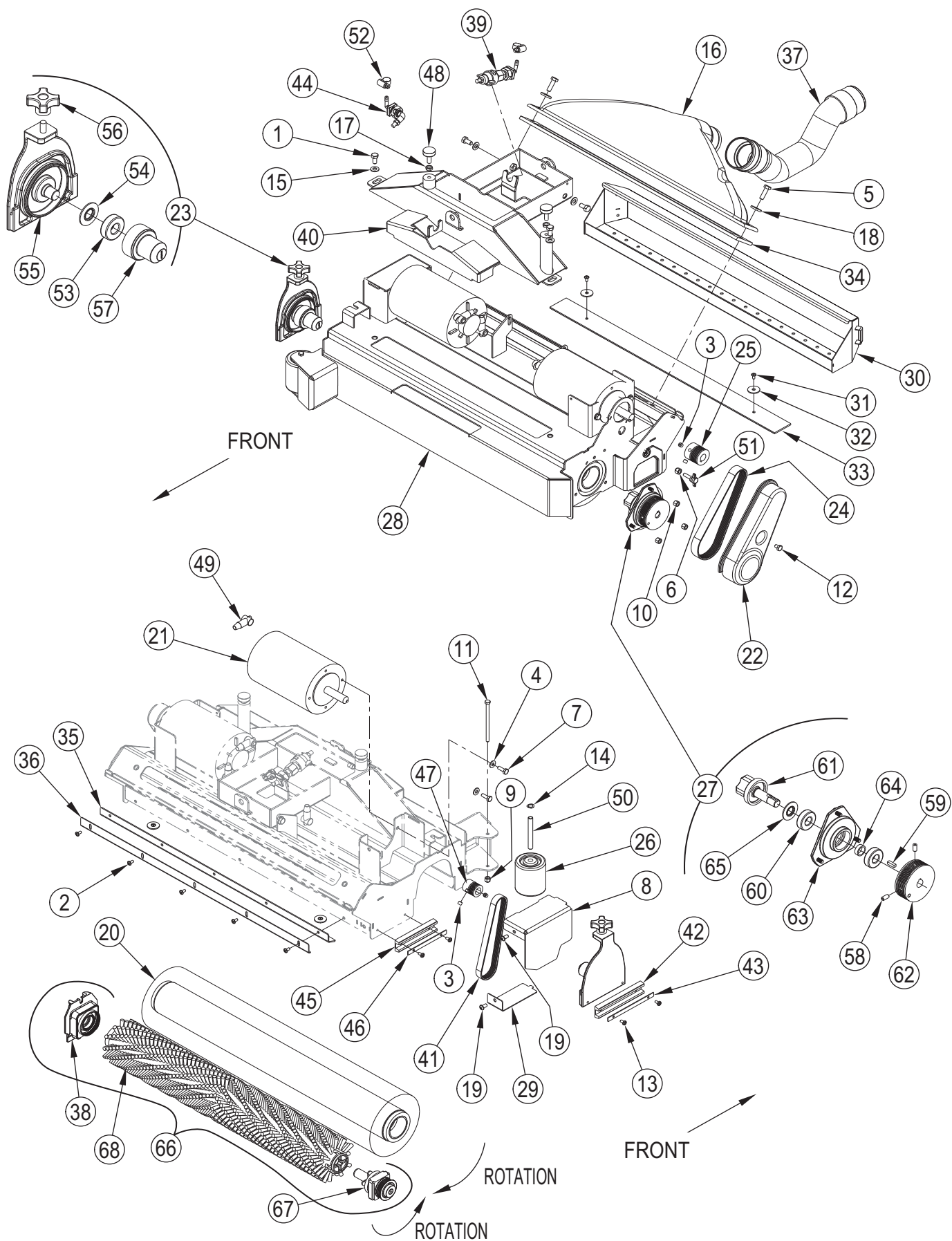
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DECAL SYSTEM



DECAL SYSTEM**Kit ItemRef. No.Qty Description**K23 1 1 Decal, CautionK23 2 1 Decal-AdvanceK23 3 2 DecalK23 4 1 Decal-Wet DryK23 5 1Decal Open When ChargingK23 6 1Decal, Circuit BreakerK23 7 1Decal-Battery WiringK23 8 1 Decal-Prop 65**Service Kits**K23 56344197 1 Decal Kit – ES4000

DECK SYSTEM



DECK SYSTEM

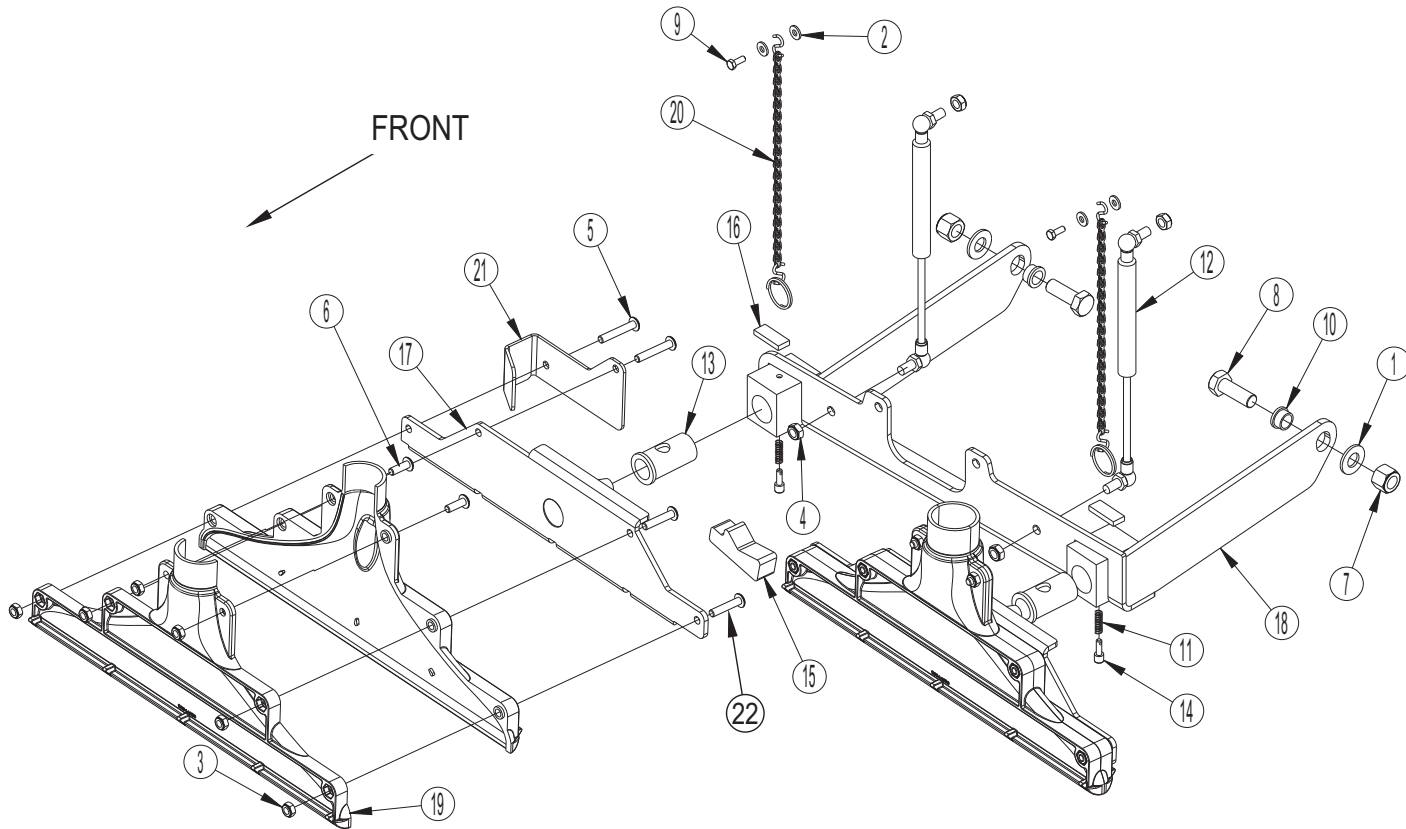
Kit	ItemRef. No.	Qty	Description
K20	1		4Scr, Hex Ss 5/16-18 X .62
K7	2		5Scr-Pan Phil Ss 10-24 X .38
K20	3		4Scr, Soc Set Loc 5/16-18 X .25
K20	4		6Wsh, Flt Sae 1/4
K20	5		2Scr, Hex Ss 5/16-18 X 1.00
K20	6		1Nut, Hex Nyl Loc Ss 1/4-20
K20	7		8Scr,Hex Hd Loc 1/4-20x.75
	8	56344028	1Belt Guard
K8	9		1Nut-Hex Nyl Loc M6-1
K20	10		3Nut, Hex Nyl Loc Ss M6-1
K8	11		1Scr-Hex M6-1 X 100mm
K20	12		1Scr, Hex Thd Form 1/4-20 X .38
K9	13		4Scr, Pan Phil Thd Form 10-24 X .38
K20	14		2Wsh, Bowed .375x.578x.060
K20	15		4Wsh, Int Shprf 5/16
	16	56344080	1Tube Intake
K20	17		2Nut, Hex Jam 5/16-18
K20	18		2Wsh, Flt .344 X .938 X .125
K20	19		2Scr, Button Soc 1/4-20 X .50
	20	56314633	1Brush Multi Surface 28
	21	56315061	2Motor-24 Vdc .5 Hp 1800 Rpm (M7, M8)
	[]	56412257	1 Brush Cap Assy (for 56315061)
	[]	56412287	1 Motor Brush/Spring Kit (for 56315061)
	[]	56412258	4 Brush Assy (for 56315061)
	[]	56412259	4 Brush Spring (for 56315061)
	22	56115314	1Cover Belt
	23	56115344	1Idler End Assy (#53-57)
	24	56316053	1Belt, Auto Tension
	25	56316066	1Sheave, Poly-V
K8	26		1Wheel
	27	56317157	1Drive End Assy (#58-65)
	28	56344000	1Deck Weldment
	29	56344011	1Bracket-Belt Cover
K18	30		1Hopper Weldment
K18	31	56003189	2 Scr, Pan Phil Ss 10-24 X .38
K18	32	56009060	2 Wsh, Flt Ss .260 X 1.000 X .074
K18	33	56344140	1 Blade Hopper
K18	[]	56344099	1 Magnet-Screw Mount
K18	[]	56002907	1 Nut Hex Nyl Loc SS 6-32
K18	[]	56003870	1 Scr-Flt Phil SS 6-32 X .38
	34	56344083	1Gasket Intake
K7	35		1Deflector-Rear
	36	56344085	1Clamping Bar
	37	56344110	1Hose-Molded
	38	56382873	1Brush Bearing End Cover Kit
	39	56344137	1Maintenance Nozzle Assy
	[]	56262099	1 Nozzle-Spray

Kit	ItemRef. No.	Qty	Description
	4056344081	1	Deck Bracket Weldment
	4156344141	1	Belt-Auto Tension
K9	42	1	Bumper
K9	43	1	Bumper Retainer
	4456344156	1	Restoration Nozzle Assy
	[]56344138	1	Nozzle-Spray
K9	45	1	Bumper
K9	46	1	Bumper Retainer
	4756344170	1	Sheave Poly-V
	4856401783	2	Leg Leveler 5/16-18
	4956409538	4	Insulator, Terminal
K8	50	1	Bushing
	5156602244	1	T-Knob Assembly
	5256756364	2	Clamp- Hose Sae #4
	5356106070	1	Bearing, Ball
	5456407558	1	Washer Bearing
	5556315447	1	Idler Bearing Plate
	5656407303	1	Knob
	5756115273	1	Hub-Idler
	5856002119	2	Scr, Soc Set Loc 1/4-20 X .50
	5956003237	1	Key, Sq .19 X .62
	6056106070	2	Bearing, Ball
	6156109527	1	Spindle
	6256316054	1	Sheave, Poly-V
	6356381765	1	Bearing Plate
	6456407389	1	Spacer
	6556407558	1	Washer Bearing
	6656383102	1	Brush Assembly Multi-Surface
K14	56344178	1	Bearing Kit
K11	6756344192	1	Pulley/Drive Spindle Kit
K10	6856344191	1	Brush Assembly

Service Kits

K7	56344182	1	Rear Deflector Kit
K8	56344183	1	Bumper Wheel Kit
K9	56344184	1	Bumper Kit
K10	56344191	1	Brush Assembly
K11	56344192	1	Pulley/Drive Spindle Kit
K14	56344178	1	Bearing Kit
K18	56344179	1	Hopper Assembly
K20	56344194	1	Hardware Kit - Scrub System

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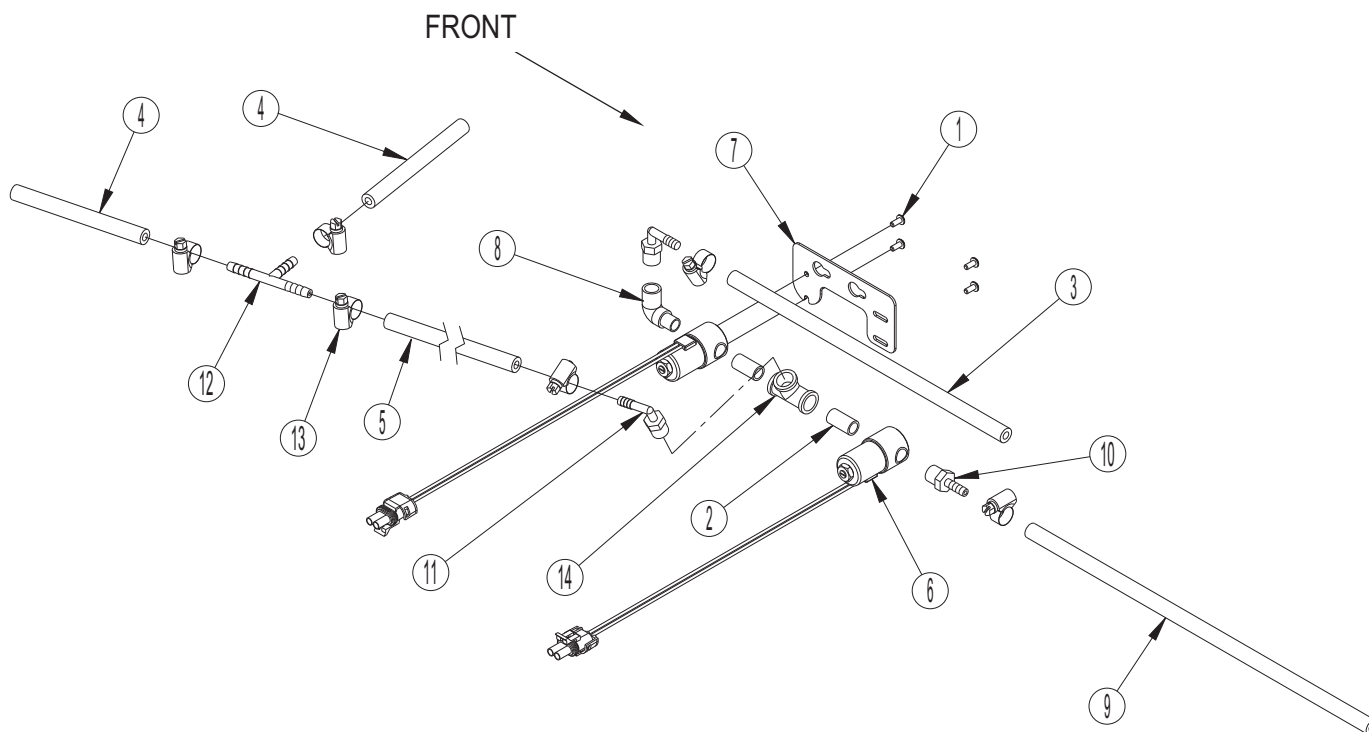
SHOE LINKAGE ASSY

Kit ItemRef. No.Qty Description

K13	1	2	Wsh-Flt Sae 1/2
K13	2	4	Wsh, Flt Sae #10
K12	3	12	Nut, Hex Nyl Loc-Thin SS 1/4-20
K13	4	4	Nut, Hex Nyl Loc-Thin 5/16-18
K12	5	2	Scr, Pan Phil Ss 1/4-20 X 1.50
K12	6	4	Scr, Pan Phil Ss 1/4-20 X .75
K13	7	2	Nut-Hex Nyl Loc M12-1.75
K13	8	2	Scr-Hex M12-1.75 X 35mm
K13	9	2	Scr, Hex Thd Form 10-24 X .50
K13	10	2	Bearing, Flange
K13	11	2	Spring, Compression
	1256314206	2	Gas Spring
	1356317092	2	Bearing, Flange
K13	14	2	Pin
K12	1556317156	1	Shoe Spacer, Foam
	1656317164	2	Foam Strip
K12	17	2	Shoe Bracket Weldment
	1856344039	1	Shoe Support Weldment
K12	19	4	Shoe-Extractor
	2056344123	2	Chain Assembly
	2156344139	1	Deflector
K12	22	6	Scr Pan Phil SS 1/4-20 X 1.25

Service Kits

K12	56344189	2	Shoe Assembly
K13	56344190	1	Hardware Kit – Shoe Linkage



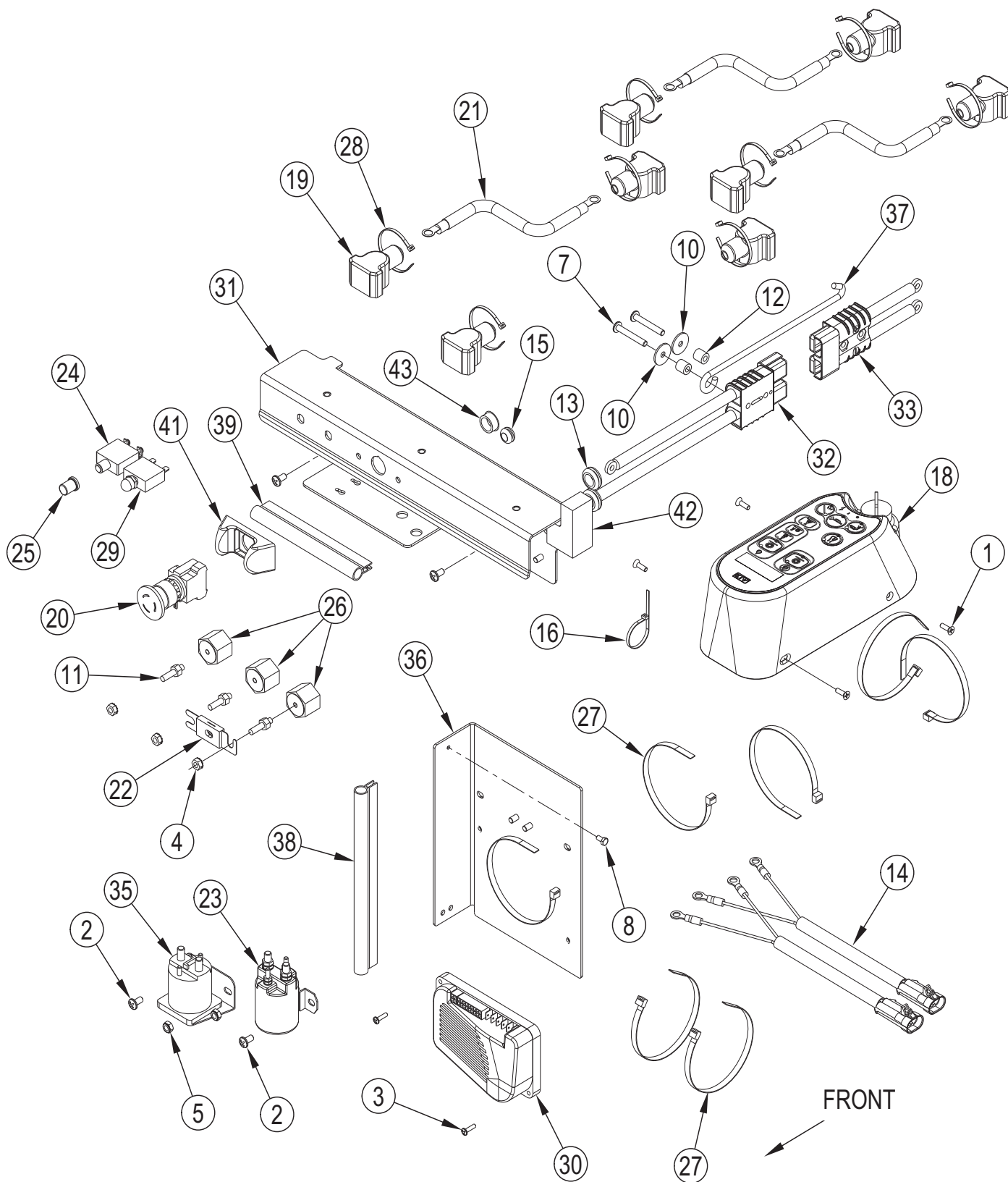
SOLENOID VALVE ASSY

Kit	Item	Ref. No.	Qty	Description
		56344064	1	Valve Assembly
		156003018	4	Scr, Pan Phil Ss 8-32 X .38
K19	2		2	Nipple, 1/4npt X .88/1.12
		356220043	1	Solution Feed Hose
		456264260	2	5.00" Hose
		556265373	1	Hose, 1/4 X 21.00l, E00160
		656317024	2	Valve, Solenoid 24v (L2, L3)
		756344063	1	Bracket-Valve
K19	8		1	Elbow, 90 Street
		956456560	1	15.00" Hose
K19	10		1	Barb, Adapter 1/4 X 1/4npt
K19	11		2	Barb, 90 Elbow 1/4 X 1/4npt
		1256508441	1	Tee, 1/4 Id Hose, Barb
		1356756364	6	Clamp- Hose Sae #4
K19	14		1	Tee, Female Union

Service Kits

K19	56344174	1	Fitting Kit – Valve Assembly
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ELECTRICAL SYSTEM



FRONT

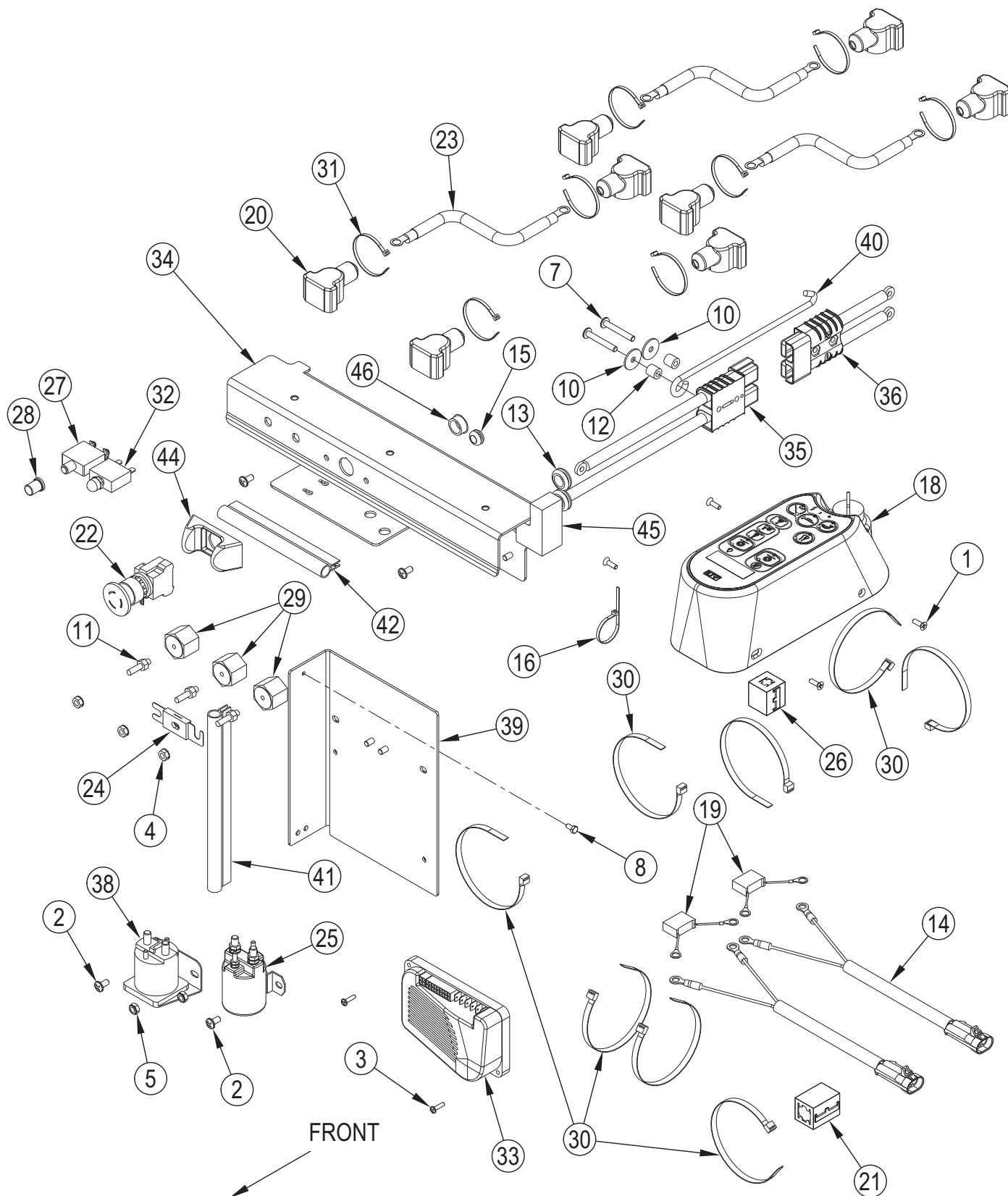
ELECTRICAL SYSTEM

Kit	Item	Ref. No.	Qty	Description
K22	1		4	Scr. Flt Phil 10-24 X .62
K22	2		4	Scr Pan Phil Loc 1/4-20 X .6
K22	3		2	Scr-Pan Phil 8-32 X .62
K22	4		3	Nut, Hex W/ Shprf 1/4-20
K22	5		2	Nut, Hex Nyl Loc-Thin 1/4-20
K22	6			Intentionally Omitted
K22	7		2	Scr-Pan Phil 1/4-20 X 1.75
K22	8		1	Scr, Hex Thd Form 10-24 X .38
K22	10		2	Wsh, Flt Ss .260 X 1.000 X .074
K22	11		3	Stud, 1/4-20
	1256046309	2		Spacer, Phenolic
	1356157376	2		Grommet
	1456315320	2		Harness, Brush Motor
	1556321540	1		Grommet
	1656325219	1		Tie, Cable
	[17]56344092	1		Harness-Main
	18#56344215	1		Kit-Control Board (A1)
	[]56344093	1		Kit, Interface Panel (Membrane Switch, Interface Panel)
	[]56303553	1		Key Switch (S1)
	[]56303526	A/R		Replacement Key Set
	1956372673	8		Boot-Battery Post
	2056407130	1		Disconnect, Emergency (S4)
	2156409485	3		Cable, Battery
	2256412089	1		Fuse, 150 Amp (F1)
	2356412179	1		Contact, 24 Vdc (K2)
	2456454429	1		Circuit Breaker, 70 Amp (CB1)
	2556459369	1		Boot, Reset Button
	2656469858	3		Electrical Mount
	2756477613	9		Tie, Cable
	2856478246	8		Tie, Cable
	2956507644	1		Circuit Breaker, 10 Amp (CB2)
	3056601061	1		Controller, Speed (A2)
	3156601105	1		Panel
	3256601171	1		Connector Assy
	3356601172	1		Connector Assy
	[34]56344205	1		Harness-Traction
	3556601183	1		Contact, 24v, 100 Amp (K1)
	3656601185	1		Panel
	3756601215	1		Prop Rod, Seat
	3856601251	1		Gasket
	3956601252	1		Gasket
	[40]56601431	1		Cable, Jumper
	4156601434	1		Emergency Button Guard
	4256601600	1		Foam Insert
	4356900144	1		Plug, Cap
Service Kits				
K22	56344196	1		Hardware Kit – Electrical System

[] = Not Shown

= Revised or new since last update

ELECTRICAL SYSTEM-WITH SUPPRESSION



ELECTRICAL SYSTEM-WITH SUPPRESSION

Kit	ItemRef.	No.	Qty	Description
K22	1			4Scr, Flt Phil 10-24 X .62
K22	2			4Scr Pan Phil Loc 1/4-20 X .6
K22	3			2Scr-Pan Phil 8-32 X .62
K22	4			3Nut, Hex W/ Shprf 1/4-20
K22	5			2Nut, Hex Nyl Loc-Thin 1/4-20
K22	6			Intentionally Omitted
K22	7			2Scr-Pan Phil 1/4-20 X 1.75
K22	8			1Scr, Hex Thd Form 10-24 X .38
K22	10			2Wsh, Flt Ss .260 X 1.000 X .074
K22	11			3 Stud, 1/4-20
	1256046309	2		Spacer, Phenolic
	1356157376	2		Grommet
	1456315320	2		Harness-Brush Motor
	1556321540	1		Grommet
	1656325219	1		Tie, Cable
	[17]56344092	1		Harness-Main
	18#56344215	1		Kit-Control Board (A1)
	[]56344093	1		Kit, Interface Panel (Membrane Switch, Interface Panel)
	[]56303553	1		Key Switch (S1)
	[]56303526	A/R		Replacement Key Set
	1956344173	2		Capacitor Assy
	2056372673	8		Boot-Battery Post
	2156380004	1		Ferrite Bead
	2256407130	1		Disconnect, Emergency (S4)
	2356409485	3		Cable, Battery
	2456412089	1		Fuse, 150 Amp (F1)
	2556412179	1		Contact, 24 Vdc (K2)
	2656413883	1		Ferrite Bead
	2756454429	1		Circuit Breaker, 70 Amp (CB1)
	2856459369	1		Boot, Reset Button
	2956469858	3		Electrical Mount
	3056477613	10		Tie, Cable
	3156478246	8		Tie, Cable
	3256507644	1		Circuit Breaker, 10 Amp (CB2)
	3356601061	1		Controller, Speed (A2)
	3456601105	1		Panel
	3556601171	1		Connector Assy
	3656601172	1		Connector Assy
	[37]56344205	1		Harness-Traction
	3856601183	1		Contact, 24v, 100 Amp (K1)
	3956601185	1		Panel
	4056601215	1		Prop Rod, Seat
	4156601251	1		Gasket
	4256601252	1		Gasket
	[43]56601431	1		Cable, Jumper
	4456601434	1		Emergency Button Guard
	4556601600	1		Foam Insert
	4656900144	1		Plug, Cap

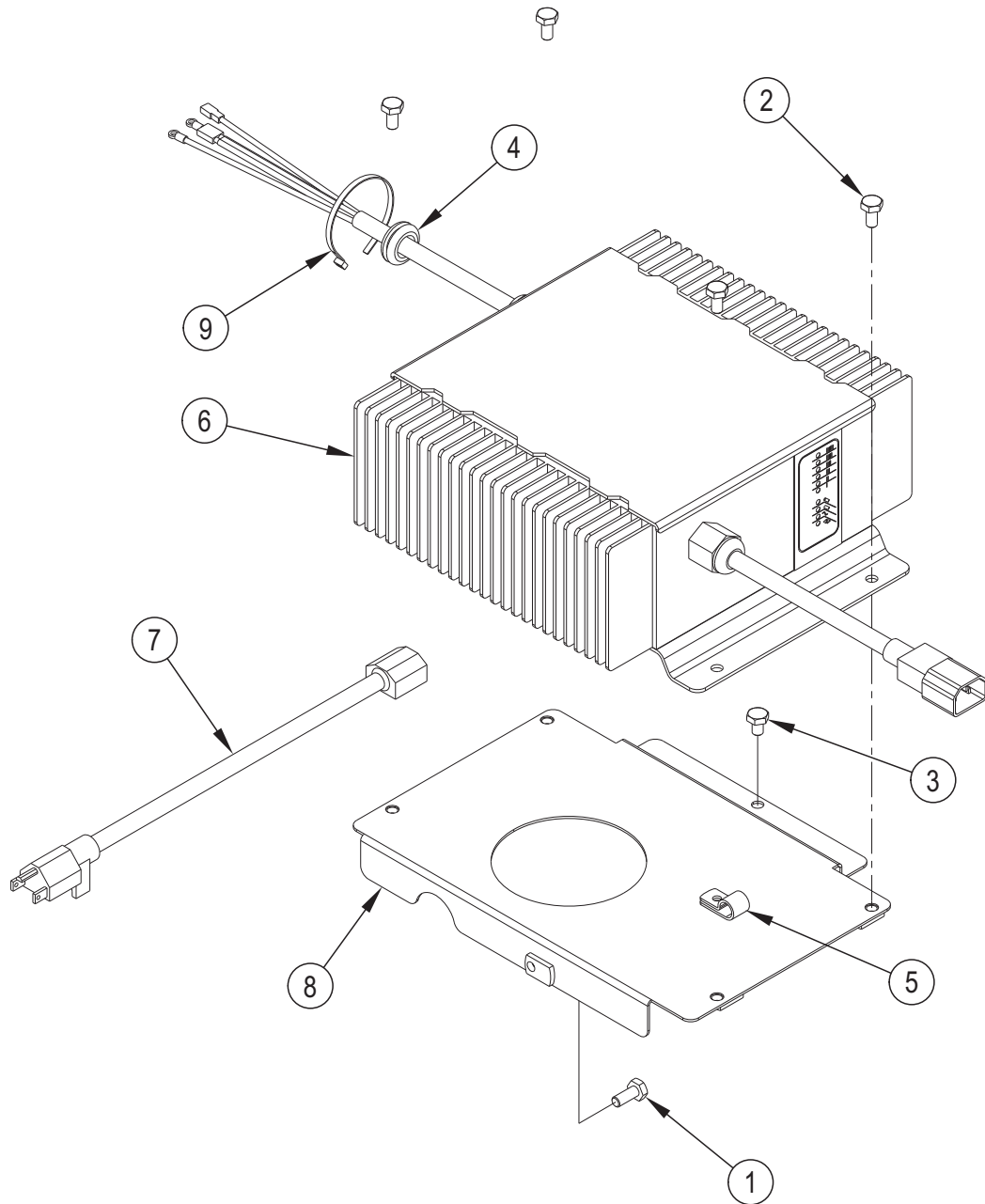
Service Kits

K22	56344196	1		Hardware Kit – Electrical System
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[] = Not Shown

= Revised or new since last update

ONBOARD CHARGER ASSY

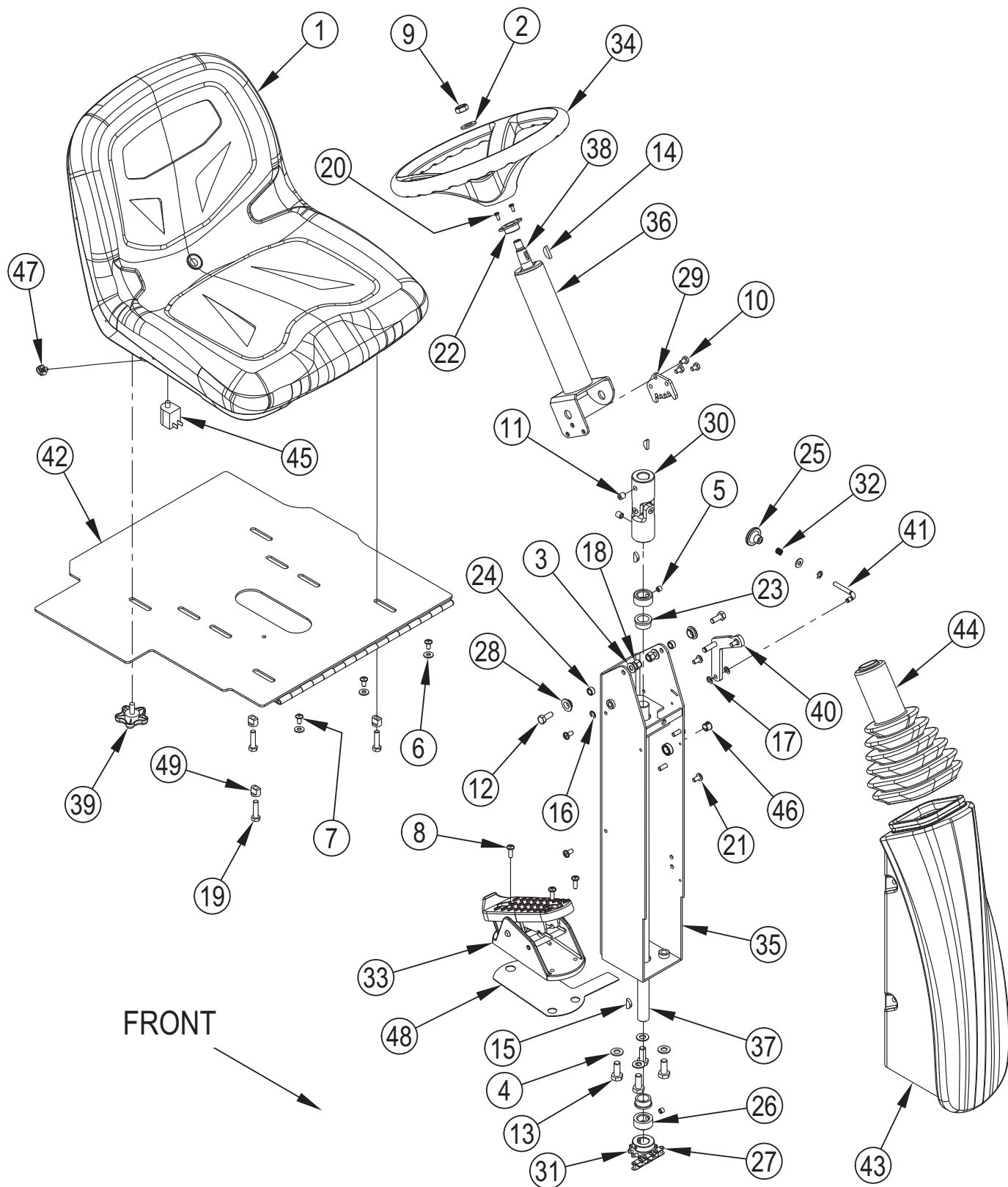


ONBOARD CHARGER ASSY

Kit	Item	Ref. No.	Qty	Description
		NA	1	Onboard Charger Assembly NOTE 1
	1	56001836	1	Scr. Hex 1/4-20 X .62
	2	56001854	4	Scr. Hex 1/4-20 X .50
	3	56009019	1	Scr. Hex Thd Form 1/4-20 X .38
	4	56157376	1	Grommet
	5	56172017	1	Clamp. P
	6	56315773	1	Charger. On-Board 24V TSBUS2008-984
	7	56383385	1	Cord Charger Yellow US
	8	56601417	1	Charger Mount Bracket
	9	56478246	1	Cable Tie

NOTE 1: Standard in the following packages: 56344203, 56344204, 56344213, 56344214

CONTROL SYSTEM



CONTROL SYSTEM

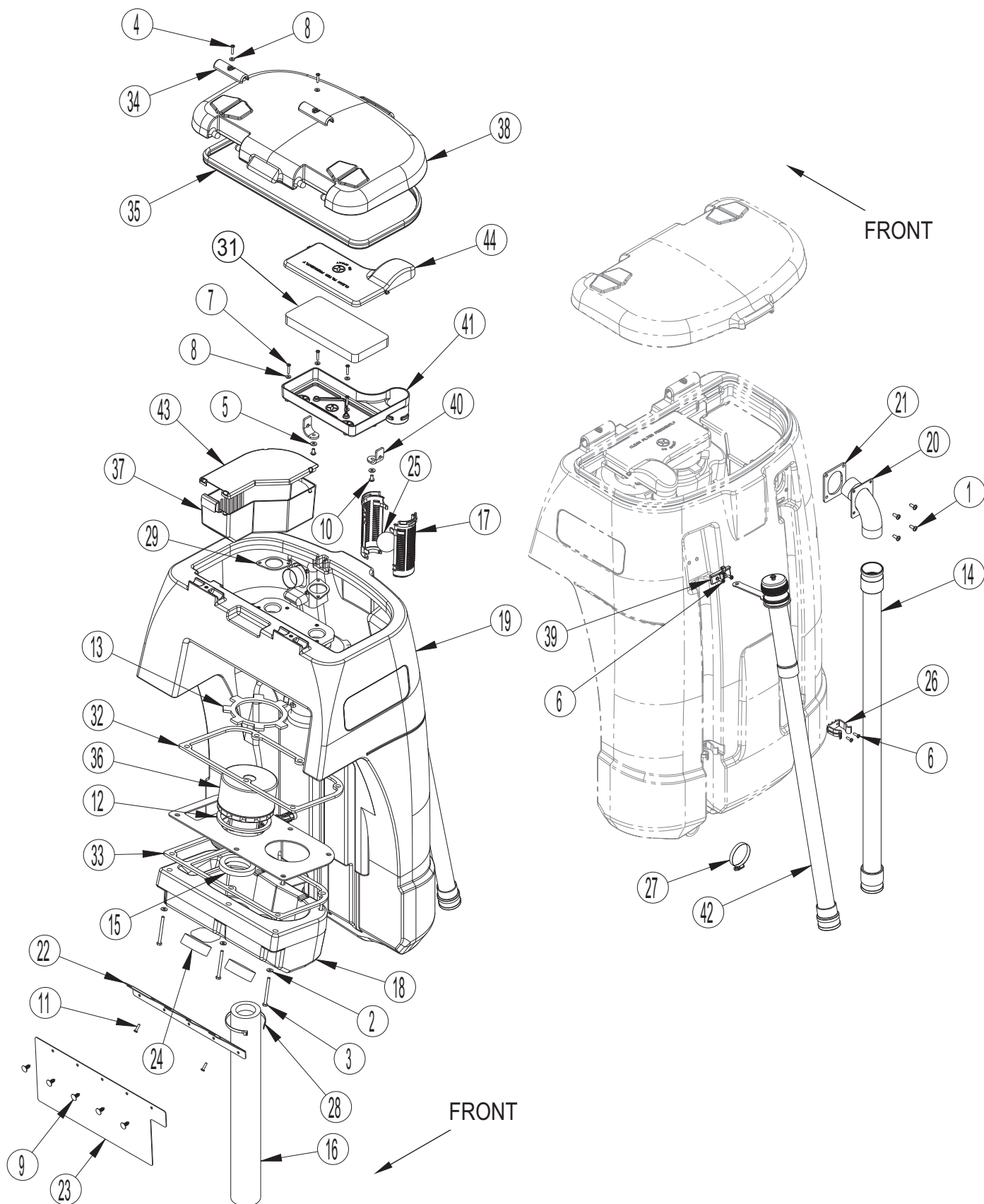
ItemRef. No.Qty Description

1	56394342	1	Seat NOTE 1, NOTE 2
2	56001879	1	Wsh, Flt SAE 1/2
3	56001939	2	Wsh, Flt SAE 5/16
4	56002063	4	Wsh, Flt SAE 3/8
5	56002086	2	Scr, Soc Set Loc 5/16-18 X .25
6	56002098	4	Wsh, Flt SAE 1/4
7	56002145	3	Scr, Pan Phil 1/4-20 X .50
8	56002507	3	Scr, Pan Phil 1/4-20 X .75
9	56002843	1	Nut, Hex Nyl Loc-Thin 1/2-13
10	56002933	3	Scr, Hex Hd Loc 1/4-20x.38
11	56003081	2	Scr, Soc Set Loc 3/8-16 X .38
12	56003179	2	Scr, Hex Thd To Hd M8-1.25 X 20mm
13	56003186	4	Scr, Hex Thd To Hd M10-1.5 X 25mm
14	56003227	1	Key, Wdf .62 X .19
15	56003228	3	Key, Wdf .75 X .19
16	56003261	1	Ring, Ret Ext Type E 0.31 Dia
17	56003268	3	Ring, Ret Ext Type E Reinf. 0.25 Dia
18	56003389	2	Nut, Hex Nyl Loc M8-1.25
19	56001834	3	Scr Hex 5/16-18 X 1.25
20	56009051	2	Scr, Pan Phil Thd Form 8-32 X .38
21	56009062	4	Scr, Pan Phil Thd Form 1/4-20 X .50
22	56100393	1	Bushing
23	56250414	2	Bearing, Flange
24	56320595	2	Bushing .32 x .50 x .28
25	56362778	1	Knob
26	56367095	2	Collar, Shaft
27	56412198	1	Chain, Roller
28	56413211	2	Bearing, Flange .625 X .500 X .250
29	56413658	1	Ratchet, Steering Column
30	56454081	1	Universal Joint
31	56471148	1	Sprocket
32	56578222	1	Spring, Compression
33	56385084	1	Foot Pedal Assembly (R1) TSB-FC-2017-053
34	56601060	1	Steering Wheel
35	56601163	1	Lower Column Weldment
36	56601169	1	Upper Column Weldment
37	56601223	1	Shaft, Lower Steering
38	56601224	1	Shaft, Upper Steering
39	56601271	1	Knob, 5/16 Stud
40	56601284	1	Steering Pawl Weldment
41	56601292	1	Pull Lever
42	56601362	1	Seat Panel Weldment
43	56601484	1	Shroud, Lower Column
44	56601500	1	Boot, Steering
45	7-82-00050	1	Switch (S2)
46	56601683	1	Plug-Cap
47	56315382	1	Clip-Conduit
48	56601601	1	Foot Pedal Plate
49	56383230	3	Flanged Bushing Seat

NOTE 1: Seat 8-69-00022 has been replaced by Seat 56117269 in production as of June 2013. Please order Seat Kit 56383240 when replacing Seat 8-69-00022.

NOTE 2: Seat 56117269 has been replaced by seat 56394342 in production. Please order Seat Kit 56383240 when replacing seat 56117269.

RECOVERY SYSTEM



RECOVERY SYSTEM

Kit ItemRef. No.Qty Description

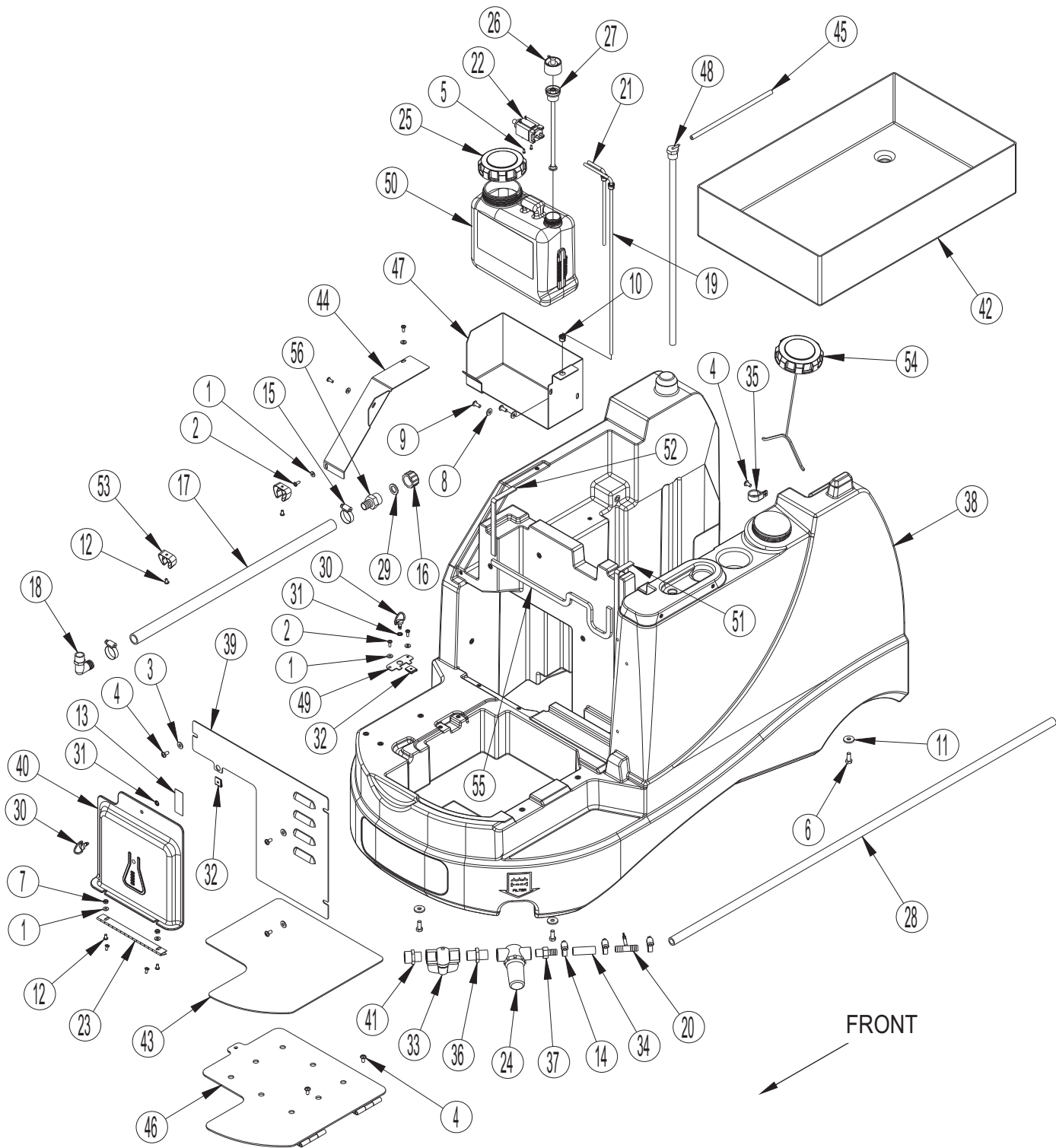
K16	1	4Scr-Pan Phil 1/4-20 X .62
K16	2	6 Wsh, Flt Sae 1/4
K16	3	6Scr, Hex Hd Loc 1/4-20 X 3.00
K16	4	2Scr-Pan Phil Loc SS 10-24 X .88
K16	5	2 Wsh-Flt Sae Ss 1/4
K16	6	6Scr, Pan Phil Ss 10-24 X .62
K16	7	4Scr, Pan Phil Ss 10-24 X .75
K16	8	6Wsh-Flt Sae Ss #10
K16	9	5Rivet, Nylon Tree Push-In (.25)
K16	10	2Scr, Pan Phil Ss Plastite 1/4-10 X .50
K16	11	2Scr, Pan Phil Ss Type Ab 10-16 X .75
K17	12	2Gasket, Vacuum Duct
K17	13	2Gasket, Vacuum Motor
	1456314517	1 Vac Hose Assembly
K17	15	2Gasket, Vacuum Duct
	1656315847	1Foam Tube Assembly
	1756324497	2 Cage, Float
	1856344074	1 Cover-Vac Motor
	1956344114	1 Tank-Recovery
	2056344116	1 Elbow Weldment
	2156344118	1 Gasket-Inlet
	2256344164	1 Bracket
	2356344165	1 Flap
	2456344168	2 Filter
	2556391690	1 Ball, Float
	2656407361	2 Clamp, Plastic
	2756440213	1Clamp- Hose Sae #32
	2856477613	1 Tie, Cable
	2956601121	2 Gasket, Vac Filter
	3056601122	1 Plate, Vac
	3156601125	1 Filter
	3256601126	1 Gasket, Exhaust
	3356601127	1 Gasket, Vac
	3456601128	2 Hinge Clamp
	3556114185	1Gasket-Recovery Tank
K17	36	2Motor, Vac 24vdc (M5, M6)
	[]56397098	1 Carbon Brush Set of 2 (for 56344176)
K24	36	2Motor, Vac W/Suppression 24vdc (M5, M6)
	[]56397098	1 Carbon Brush Set of 2 (for 56344199)
	3756601138	1 Strainer Basket
	3856601139	1 Recovery Lid
	3956601204	1 Hook, Drain Hose
	4056601250	2 Strap, Filter Cover
	4156601253	1 Filter Box
	4256384759	1Hose-Molded-Ribbed-PU
	[]56601411	1 Drain Hose Cap Kit
	[]56601410	1 Drain Hose Extension
	4356601421	1 Cover, Debris
	4456344198	1Cover, Fltr Box W/Gskt

Service Kits

K16	56344175	1	Hardware Kit – Recovery System
K17	56344176	1	Vacuum Motor Gasket Kit (Standard)
K24	56344199	1	Vacuum Motor Gasket Kit (EMC Suppression)

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SOLUTION SYSTEM



SOLUTION SYSTEM

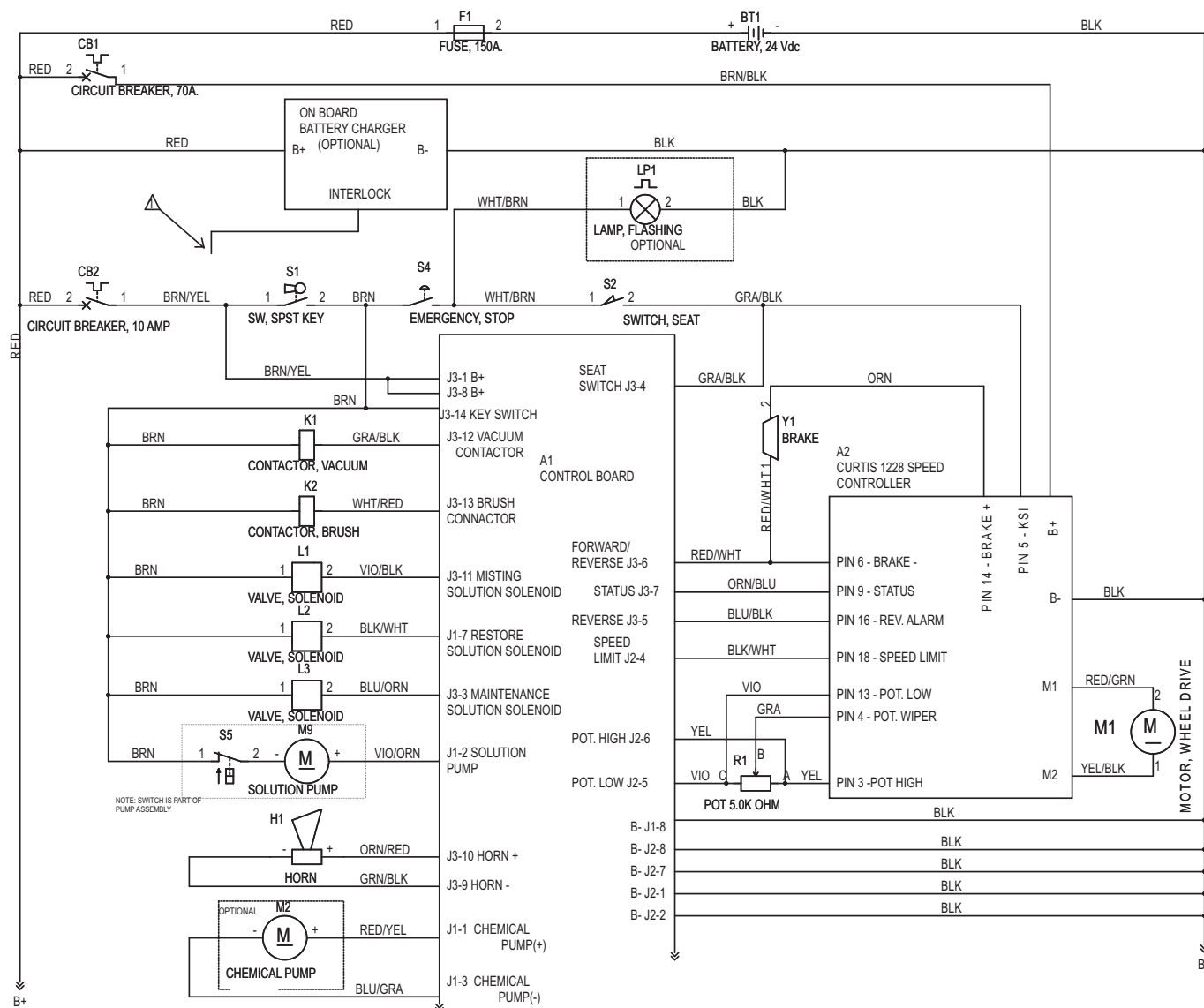
Kit ItemRef. No.Qty Description

K21	1	7	Wsh, Flt Sae #10
K21	2	5	Scr-Pan Phil 10-24 X .50
K21	3	3	Wsh, Flt Sae 1/4
K21	4	8	Scr-Pan Phil 1/4-20 X .50
K21	5	2	Scr. Pan Phil Thd Form 6-32 X .31
K21	6	4	Scr. Hex 5/16-18 X .75
K21	7	2	Nut, Hex Nyl Loc-Thin 10-24
K21	8	2	Wsh-Flt Sae Ss 1/4
K21	9	2	Scr. Pan Phil Ss 1/4-20 X .62
K21	10	3	Bushing, 1/4 Id Snub
K21	11	4	Wsh, Flt .344 X .938 X .125
K21	12	6	Scr. Pan Phil Loc 10-24 X .38
			1356016331 1Decal-Chemical Ratio
			1456219932 3Clamp- Hose Sae #6
			1556244969 2Clamp- Hose Sae #12
			1656255076 1Cap. Pipe Ght Nylon
			1756261265 1Hose, .75 Clear Pvc, 25.00
			1856314757 1Barb, 90 Elbow 3/4 X 1/2npt
			1956384957 1Hose-Chemical-Resistant-34 IN
			2056314983 1 Tee Assembly
			2156314991 1Hose, Chem Resistant 14"
			2256315241 1Pump, Chemical (M2)
			2356315285 1 Hinge
			2456315296 1 Solution Filter
			2591000015121Cap Plastic F Chemical Tank
			2656315523 1Cap, Dry Break, 1/8 Barb, 90°
			2756315527 1 Insert, Dry Break
			2856344069 1Hose Pvc Clear .50 Id
			2956368776 1 Washer, Rubber
			3056380132 2 Latch, 1/4 Turn
			3156380137 2 Retainer
			3256380141 2 Nut, Clamp
			3356381475 1 Ball Valve
			3456396330 1 Hose, Pvc Clear
			3556410097 3 Clamp, P
			3656412182 1 Nipple, Hex 3/4-14
			3756412184 1Barb, Adapter 1/2 X 1/2 Npt
			3856601076 1 Solution Tank
			3956601106 1 Panel
			4056601202 1Chemical Bottle Cover
			4156601212 1Nipple, Reducer 3/4"Npt X 1/2"Npt
			4256601213 1 Battery Box
			4356601246 1 Mat
			4456601268 1 Plate
			4556112553 1 Hose
			4656601339 1Charger Cover Weldment
			4756601398 1 Bracket
			4856344172 1Tube, Pressure Sensing W/Elbow
			4956601511 1 Plate
			5056601544 1Chemical Bottle Assy
			5156601569 1 Gasket
			5256601570 1 Gasket
			5356601598 2 Hose Clip
			5456510442 1 Cap-Extra Vent
			5556601685 1 Gasket
			5656900273 1Barb, Adapter 3/4 X 3/4ght

Service Kits

K21	56344195	1	Hardware Kit – Solution Assembly
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LADDER DIAGRAM-1



NOTES:

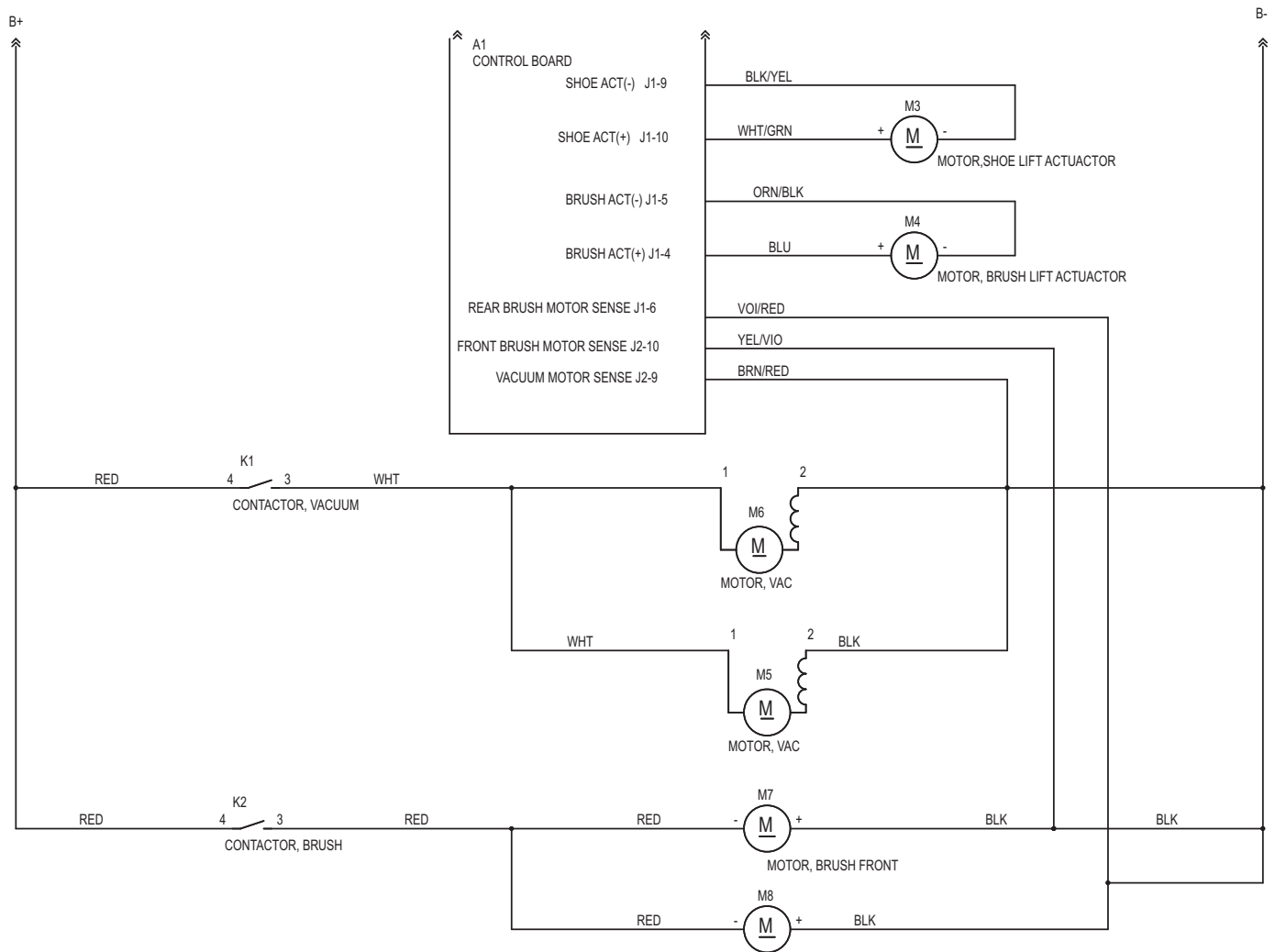
1. DISCONNECT RED WIRE ON CB2 AND REPLACE WITH GREEN WIRE FROM CHARGER WHEN ON BOARD CHARGER IS USED.

LADDER DIAGRAM-1

ItemRef. No.Qty Description

A1	56344096	1	Kit-Control Board
A2	56601061	1	Controller, Speed
BT1	N/A		Battery
CB1	56454429	1	Circuit Breaker, 70 Amp
CB2	56507644	1	Circuit Breaker, 10 Amp
F1	56412089	1	Fuse, 150 Amp
H1	56412177	1	Horn/Backup Alarm
K1	56601183	1	Contactor 24v, 100 Amp
K2	56412179	1	Contactor, 24 Vdc
L1	56317024	1	Valve, Solenoid 24v
L2	56317024	1	Valve, Solenoid 24v
L3	56317024	1	Valve, Solenoid 24v
LP1	56601085	1	Beacon, Warning (optional)
M1	56601050	1	Motor / Drive Wheel
M2	56315241	1	Pump, Chemical
M3	56344160	1	Actuator-Motor 24v
M4	56344161	1	Lift Actuator Assembly
M5	56601132	1	Motor, Vac 24vdc
M6	56601132	1	Motor, Vac 24vdc
M7	56315061	1	Motor-24 Vdc .5 Hp 1800 Rpm TSBUS2010-1058
M8	56315061	1	Motor-24 Vdc .5 Hp 1800 Rpm TSBUS2010-1058
M9	56317045	1	Solution Pump, 24vdc
R1	N/A	1	Part of Footpedal Assy 56385084 TSB-FC-2017-053
S1	56303553	1	Ket Switch
S2	7-82-00050	1	Switch
S4	56407130	1	Disconnect, Emergency
Y1	56601507	1	Brake, Electromagnetic
	56315773	1	Charger, On-Board 24v TSBUS2008-984

LADDER DIAGRAM-2



LADDER DIAGRAM-2

ItemRef. No.Qty Description

A1	56344096	1	Kit-Control Board
A2	56601061	1	Controller, Speed
BT1	N/A		Battery
CB1	56454429	1	Circuit Breaker, 70 Amp
CB2	56507644	1	Circuit Breaker, 10 Amp
F1	56412089	1	Fuse, 150 Amp
H1	56412177	1	Horn/Backup Alarm
K1	56601183	1	Contactor 24v, 100 Amp
K2	56412179	1	Contactor, 24 Vdc
L1	56317024	1	Valve, Solenoid 24v
L2	56317024	1	Valve, Solenoid 24v
L3	56317024	1	Valve, Solenoid 24v
LP1	56601085	1	Beacon, Warning (optional)
M1	56601050	1	Motor / Drive Wheel
M2	56315241	1	Pump, Chemical
M3	56344160	1	Actuator-Motor 24v
M4	56344161	1	Lift Actuator Assembly
M5	56601132	1	Motor, Vac 24vdc
M6	56601132	1	Motor, Vac 24vdc
M7	56315061	1	Motor-24 Vdc .5 Hp 1800 Rpm TSBUS2010-1058
M8	56315061	1	Motor-24 Vdc .5 Hp 1800 Rpm TSBUS2010-1058
M9	56317045	1	Solution Pump, 24vdc
R1	N/A	1	Part of Footpedal Assy 56385084 TSB-FC-2017-053
S1	56303553	1	Ket Switch
S2	7-82-00050	1	Switch
S4	56407130	1	Disconnect, Emergency
Y1	56601507	1	Brake, Electromagnetic
	56315773	1	Charger, On-Board 24v TSBUS2008-984

OPTIONAL KITS & ACCESSORIES

ItemRef. No.Qty Description**Kits**

*	56397453	1	Kit-Battery Fill Indicator
*	7-03-04249	1	Kit-Seat Armrests (only used on Seat 8-69-00022)
*	56383188	1	Arm Rest Kit R/H + L/H (only used on Seat 56383187)
*	56601085	1	Kit-Warning Beacon
*	56422162	1	Kit-Seat Belt
*	56601527	1	Battery Watering Kit
*	56315732	1	Quiq Programmer Kit
*	56344093	1	Interface Panel Kit
*	56384976	1	Aqua Wand-150/300/500-1.5X13IN
*	56384041	1	15FT Hose And Coupler Kit
*	56601545	1	Chemical Bottle Assembly
*	56384137	1	Idler W/O-Ring Kit

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

Brushes

*	56314633	1	Brush Multi-Surface 28 (Front)
*	56344191	1	Brush Assembly (Rear)

Accessories

*	56383571	A/R	Programmer-User
*	56383572	A/R	Programmer Cable-Molex
*	56044604	1	Literature Pack

* = Optional, Not Included

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