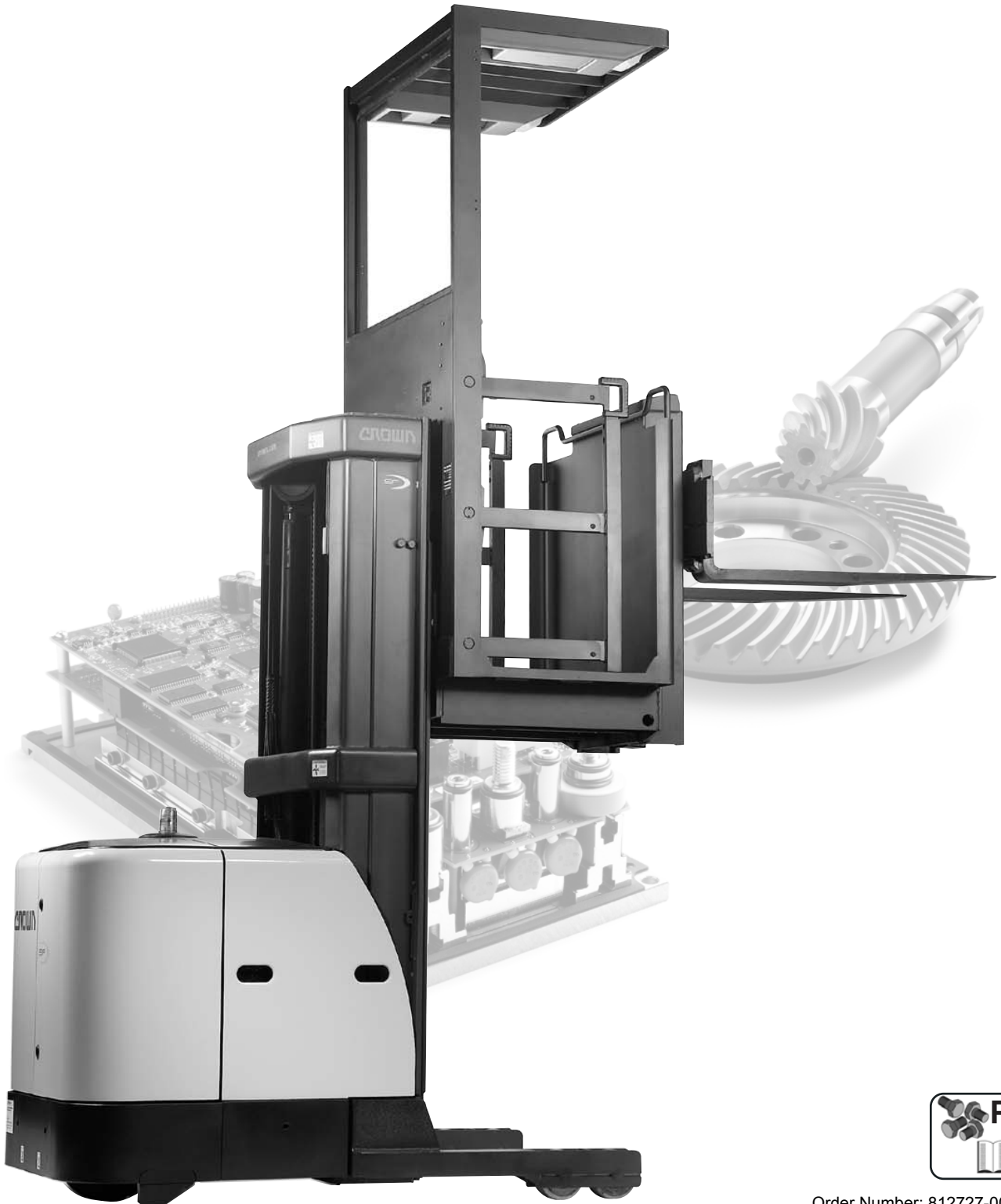




SP 3400 Series Parts Manual



Order Number: 812727-006
Revision: A • Printed in Germany

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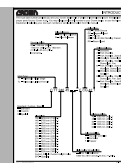


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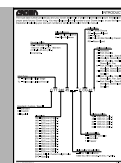
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
1	130656-004	Power Unit	1
2	130440	R.H. Door	1
3	130439	L.H. Door	1
4	115453	Latch Screw	2
5	*	L.H. Skid (Shown)	1
6	*	Screw	
	*	Screw	
	*	Flatwasher	
	*	Lockwasher	
	*	Nut	
7	117674	L.H. Hinge (Shown)	1
	117675	R.H.Hinge	1
8	060017-019	Screw	4
	060030-026	Flatwasher	4
	060005-009	Lockwasher	4
9	130209-001*	L.H. Narrow Battery Cover	1
	130302-001*	L.H. Wide Battery Cover (Shown)	1
	130208-001*	R.H. Narrow Battery Cover	1
	130437-001*	R.H. Wide Battery Cover	1
10	118328	Guide	1
11	060016-015	Screw	2
	060005-008	Lockwasher	2
	060021-009	Nut	2
12	117910	Prop Bar	1
	060038-006	Cotter Pin	1
13	130938	Retainer	2
	060014-059	Screw	2
	060042-016	Nut	2
14	130900-001	Edge Trim	1
15	130821	Wire Cover	1
16	060031-012	Nut	2
17	060016-015	Screw	1
18	060016-031	Screw	1
19	130544-001	Gray Top Cover	1
	130544-003	Beige Top Cover	1
20	060016-015	Screw	2
	060021-073	Nut	2
21	060016-028	Screw	2
	060005-008	Lockwasher	2
	060021-009	Nut	2

* To select appropriate part number, refer to truck data number.
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INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
34	060015-003	Screw	2
	060005-007	Lockwasher	2
	060030-098	Flatwasher	2
35	074105	Filter Cap	1
36	060014-015	Screw	3
	060005-005	Lockwasher	3
37	117734	Cover Plate	1
38	060014-015	Screw	6
	060005-005	Lockwasher	6
39	117732	Gasket	1
	065031-001	Sealant (Cartridge)	1
40	122866	Q.D. Nipple	1

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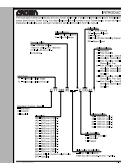


INDEX PART NUMBER PART NAME NUMBER REQUIRED

Hose TL Mast				
Index 10	Collapsed Height		Lift Height	
064255-107	2325 mm	91 inch	4215 mm	166 inch
064255-103	2415 mm	95 inch	4520 mm	178 inch
064255-109	2720 mm	107 inch	5130 mm	202 inch
064255-224	3025 mm	119 inch	5690 mm	224 inch
064255-316	3330 mm	131 inch	6200 mm	244 inch

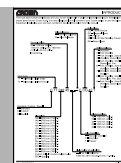
Hose TT Mast / Model 1,0SP					
Index 22	Index 23	Collapsed Height		Lift Height	
064255-316	064257-092	2325 mm	91 inch	5715 mm	225 inch
064255-317	064257-093	2415 mm	95 inch	6095 mm	240 inch
064255-318	064257-094	2720 mm	107 inch	6860 mm	270 inch
064255-198	064257-095	3025 mm	119 inch	7770 mm	306 inch
064255-200	064257-145	3175 mm	125 inch	8230 mm	324 inch
064255-230	064257-096	3330 mm	131 inch	8685 mm	342 inch
064255-360	064257-097	3635 mm	143 inch	9145 mm	360 inch
064255-361	064257-0146	3785 mm	149 inch	9600 mm	378 inch

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INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
0	132168-001	Valve Block Assembly	1
1	133878	Manifold Block	1
2	064091-007	Internal Hex Plug with O-Ring CV1 & CV3	2
3	118398	Seal Kit	AR
4	117913-001	Relief Valve RV1(included 3)	1
5	134152-001	Proportional Solenoid Valve PVL (included 3)	1
6	134154	Pressure Compensator Valve PCL (included 7)	1
7	111790-013	Seal Kit	AR
8	117739	Needle Valve MVL (included 9)	1
9	111790-005	Seal Kit	AR
10	106845-002	Orifice - ORF2	1
11	064091-006	Internal Hex Plug with O-Ring	2
12	123270-005	Orifice - ORF3	1
13	117380	Check Valve CV2 (included 3)	1
14	064091-002	Internal Hex Plug with O-Ring	5
15	064091-001	Internal Hex Plug with O-Ring P2	1
16	106845-003	Orifice - ORF1	1

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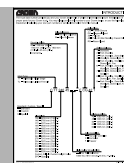


HYDRAULIC SYSTEM

VALVE BLOCK - TWO SPEED LIFT WITH AUXILIARY LIFT

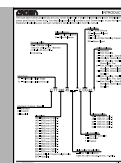
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
40	060012-016	Screw	2
41	060005-003	Lockwasher	2
42	060030-236	Flatwasher	2
43	062337-008	Relay 24 Volt	1
44	060017-019	Screw	2
45	060005-009	Lockwasher	2
46	060013-011	Screw	2
47	060005-004	Lockwasher	2
48	060030-097	Flatwasher	2
49	129616-001	Adjustable Timer	1
50	129616-003	Adjustable Timer	1
51	136795	Timer Mounting Bracket	1

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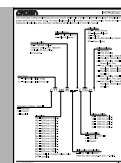
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
1	085990	Pump Housing	1
2	064019-059	O-Ring	1
3	064019-047	O-Ring	2
4	065002-003	Ball	1
5	085987	Spring	1
6	085988	Plug	1
7	065002-007	Ball	1
8	083479	Spring	1
9	085989	Piston	1
10	064169-001	Elbow	1
11	060015-021	Set Screw	2
	061004-023	Hydraulic Sealant Adhesive	1
12	085936	Tube	1
13	064168-001	Connector	1
14	064020-002	Plug	1
	061004-023	Hydraulic Sealant Adhesive	1
15	076048-001	Lubrication Fitting	1
16	085935	Tube	1
17	060015-010	Screw	1
	061004-023	Hydraulic Sealant Adhesive	1
18	085584	Spacer Block	1
19	064170-001	Elbow	1
20	091780	Oil Pump Assembly (included 1 - 9)	1

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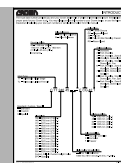
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
1		Traction Encoder ECR3 (see Section 5.3)	1
2		Brake (see Section 5.3)	1
3		Drive Motor M1 (see Section 3.1)	1
4	112951-001*	Strobe Light LGT1 (see Section 4.9)	1
	101458*	Flashing Light LGT1 (see Section 4.9)	1
5	060016-003	Screw	4
	060005-008	Lockwasher	4
	060030-017	Flatwasher	4
6	130724-001*	Strobe Light Cover Black SB21	1
	130724-002*	Strobe Light Cover Beige SB21	1
7	115565	Travel Alarm HN2	1
	060015-054	Screw	2
	060005-007	Lockwasher	2
	060030-092	Flatwasher	2
	060021-006	Nut	2
8	108801-001*	Connector Housing SBE 320 Gray	1
	108801-003*	Connector Housing SBE 320 Red	1
	108801-006*	Connector Housing SBE 320 Blue	1
	108801-008*	Connector Housing SBE 320 Yellow	1
	060015-062	Screw	2
	060005-006	Lockwasher	2
	060021-006	Nut	2
9	065004-037	Grommet	2
10		Manifold Block 1 Speed Lift (see Section 2.4)	1
	060017-006	Screw	2
	060005-009	Lockwasher	2
11	*	Battery Retainer Switch BRES1 & BRES2 (see Section 1.2)	2
12	*	Aisle Guide Wheel Switch RGS1 & RGS2 (see Section 10.0)	2
13		Pump Motor M3 1 Speed Lift (see Section 2.2)	1
	060017-027	Screw	2
	060005-009	Lockwasher	2
	060030-026	Flatwasher	2
14	*	Wire Guide Sensor (see Section 4.3)	2
15		Lift/Power Panel (see Section 4.3)	1
16	102126-002	Grounding Strap	1
	060016-003	Screw	1
	060005-008	Lockwasher	1
	060030-294	Flatwasher	1
17		Traction Panel (see Section 4.1)	1
18	060017-077	Screw	9
	060005-054	Lockwasher	9
	060021-011	Nut	9
19	132381	Steering Feedback Encoder ECR2 (see Section 4.8)	1
20	*	Wire Guide Module (see Section 4.3)	1
21		Steer Motor M2 (see Section 6.2)	1

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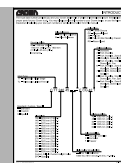
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
1	132212	Distribution Panel (included 3, 4, 6 & 7)	1
2	104401-015	Spacer	4
3	062640-001	Relay K1, K2	2
4	062828	Spring	2
5	119311*	Cover "EE" Trucks only	1
	060013-021	Screw	4
	060005-033	Lockwasher	4
6	094362-002	Fuse FU1, FU2, FU3, FU4, FU5, FU6	6
7	103687-017	Switch DTS1	1

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INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
0	110613-003	Pump Contactor 24 V.	1
1	117157	Fixed Contact.	2
2	117158	Moving Contact	1
3	114436	Cover	1
4	107351	Screw.	2
5	117159	Return Spring.	1
6	117160	Coil.	1
7	118935	Cap End.	1
8	117161	Dust Shield.	2
9	123601	Bushing	1
11	060015-021	Set Screw.	2
	117162	Kit Contact (included 1, 2 & 9.	1

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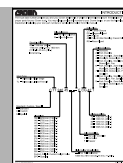


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INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
43	060011-025	Screw	4
44	105732	Retainer (Freezer/Corrosion)	1

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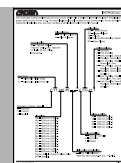
INDEX PART NUMBER PART NAME NUMBER REQUIRED

Index 1, 2, 3 & 4: 119203-001 Cable (8 Conductor)							
Index	Collapsed Height		Lift Height		Lenght Required		Order Number
	mm	inch	mm	inch	m	ft.	
1 - 3	2270 mm	89.38 inch	3455 mm	136 inch	6.1 m	20 ft.	119203-001
4	2270 mm	89.38 inch	3455 mm	136 inch	5.8 m	19 ft.	119203-001
1 - 3	2415 mm	95 inch	3760 mm	148 inch	6.4 m	21 ft.	119203-001
4	2415 mm	95 inch	3760 mm	148 inch	6.0 m	20 ft.	119203-001
1 - 3	2720 mm	107 inch	4370 mm	172 inch	7.0 m	23 ft.	119203-001
4	2720 mm	107 inch	4370 mm	172 inch	6.7 m	22 ft.	119203-001
1 - 3	3025 mm	119 inch	4930 mm	194 inch	7.6 m	25 ft.	119203-001
4	3025 mm	119 inch	4930 mm	194 inch	7.3 m	24 ft.	119203-001
1 - 3	3330 mm	131 inch	5435 mm	214 inch	8.2 m	27 ft.	119203-001
4	3330 mm	131 inch	5435 mm	214 inch	7.9 m	26 ft.	119203-001

When ordering Control Cable Index 1, 2, 3 & 4 (119203-001) specify the number of feet required for your specific truck as noted in the chart. The cable can also be purchased in 76m (250 ft.) rolls (part no. 119203-002) or 152m (500 ft.) rolls (part no. 119203-003). Cut the cable to the length required for your truck.

If cable failure has been caused by routine wear, etc. it is recommended that all control cables be replaced. If cable failure has been caused by cutting, tearing, or other than normal wear, a single cable can be replaced. Check the remaining cables condition and if questionable, replace all control cables.

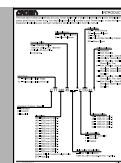
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INDEX PART NUMBER PART NAME NUMBER REQUIRED

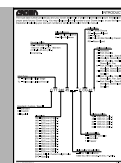
Index	Connector	Designation	Position	Terminal	Insert	Extraction Tool	Crimping Tool	
20	062592-005	PC206						
	062592-002	PC207						
	062592-006	PC208						
	062592-008	PC209						
	062592-010	PC212						
	062592-009	PC213						
	062592-003	CA217						
	21	062037-001	PC501					
		062037-002	JC501					
062037-001		PC503						
062037-002		JC503						
22	062701-005	PC230						
	062701-004	PC412						
	062701-006	PC409						
	062701-004	PC410						
23	062702-004	JC410						
	062702-004	JC407						
	062702-005	JC230						

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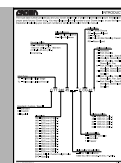
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
0	12951-001	Strobe Light Amber (without 4)	1
	112951-002	Strobe Light Red (without 4)	1
	112951-003	Strobe Light Blue (without 4)	1
1		Power Supply	1
2	113619	Locknut Conduit	1
3	113615	Lamp Strobe	1
4	113620	Lens Blackout	1
5	113614	O-Ring	1
6	113611	Lens Amber	1
	113612	Lens Blue	1
	113613	Lens Red	1

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INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
1	084603	Stud	1
2	093061	Gear	1
3	065010-005	Bearing with Snap Ring	1
4	060009-005	Retaining Ring	1
5	060009-036	Retaining Ring	1
6	118497	Output Shaft	1
7	060009-037	Retaining Ring	1
8	064138-012	Seal	1
9	060009-044	Retaining Ring	1
10	061009-021	Key	1
11	065081-032	Bearing	1
12	060009-152	Retaining Ring	1
13	117782	Gear	1
14	060030-178	Flatwasher (1.6 mm (.062 inch) thick)	1
	060030-179	Flatwasher (.3 mm (.010 inch) thick)	1
	060030-180	Flatwasher (.13 mm (.005 inch) thick)	1
	060030-181	Flatwasher (.08 mm (.003 inch) thick)	1
	060030-279	Flatwasher (.8 mm (.031 inch) thick)	1
15	065081-044	Bearing	1
16	117704	Gearbox	1
17	064020-002	Plug	1
	061004-005	Thread Locking Adhesive	AR
18	061011-001	Dowel Pin	2
19	060030-049	Flatwasher	4
20	060005-009	Lockwasher	4
21	060017-010	Screw	4

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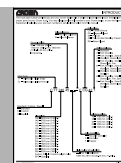
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LIFTING MECHANISM

INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
45		3rd Stage Mast (see Table)	1
46	117559	Clamp	1
47		Yoke Assembly (see Section 7.5)	1
48		Lift Chain / Chain Anchor (see Section 7.6)	AR
49	060005-009	Lockwasher	8
50	060021-012	Nut	2
51	074668-001	Roller	4
52	060030-085	Flatwasher	AR
53	060021-011	Nut	4
54	118374	Pulley Plate Assembly (included 56 - 58)	1
55	060017-032	Screw	4
56	117574-001	Pulley	8
57	060009-002	Retaining Ring	8
58	060030-026	Flatwasher	16
59		2nd Stage Mast (see Table)	1
60	124019	Bumper	2
61	060030-266	Flatwasher	AR
	060030-277	Flatwasher	AR
62	060017-065	Screw	2
63	103284-001	Roller	2
64	060030-231	Flatwasher	AR
65	060009-011	Retaining Ring	2
66	060030-192	Flatwasher	3
	060030-222	Flatwasher	AR
67	128927-002	Pulley	4
68	117562-003	Shaft	1
69	060009-043	Retaining Ring	2
70	117556-002	Pulley Assembly (included 76 - 78)	2
71	117562-001*	Shaft - 1.25SP	1
	117562-006*	Shaft - 1.0SP	1
72	117563	Pulley	1
73	119655-001	Pulley	1
74	060015-061	Screw	2
75	060017-094	Screw	1
76	117557-002	Pulley	1
77	065081-045	Bearing	1
78	060009-062	Retaining Ring	2
79	060042-006	Nut	2
80	060017-035	Screw	1

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INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
1	083404	Shim	AR
2	083403	Spacer	4
3	083402	Mounting Bar	2
4	060000-042	Roll Pin	2
5	060015-054	Screw	AR
	060015-067	Screw	AR
	061004-019	Thread Locking Adhesive	1
6	105775	Fork Rod	2
7	060009-019	Retaining Ring	4
8		Fork (see Table)	2

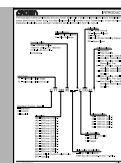
Index 8	Lenght	
079369-002	2135 mm	84 inch
102476-001	760 mm	30 inch
102476-002	915 mm	36 inch
102476-010	990 mm	39 inch
102476-003	1065 mm	42 inch
102476-009	1145 mm	45 inch
102476-004	1220 mm	48 inch
102476-005	1370 mm	54 inch
102476-006	1525 mm	60 inch
102476-007	1830 mm	72 inch
102476-008	2135 mm	84 inch
125366	2135 mm	84 inch

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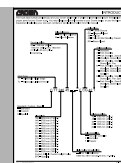
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
25	060030-026	Flatwasher	2
26	060017-034	Screw	2
27		Switch (see Section 4.8)	2
28	060030-012	Flatwasher	4
29	060005-007	Lockwasher	4
30	060015-003	Screw	4
31	060017-032	Screw	1
32	132198-001	Horn	1
33	060030-119	Flatwasher	1
34	060042-018	Self-Locking Nut	1
35	060005-009	Lockwasher	2
36	060017-007	Screw	2
37		Height Encoder (see Section 9.0)	1

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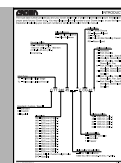
INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
50	126839	Cable Pivot	1
51	060009-005	Retaining Ring	1
	061003-002	Cable Tie	AR
52	060030-187	Flatwasher	2
53	060038-013	Cotter Pin	1
54	060016-002	Screw	4
55	060005-008	Lockwasher	4
56	060030-017	Flatwasher	4
57	100987	Pulley Assembly (included Bearing)	4
	100976	Pulley	4
	065081-038	Bearing	4
58	103372	Bracket	1
59	060038-010	Cotter Pin	2
60	103599	Rod	1
61	060030-225	Flatwasher	2
62	103591	Spacer	1
63	060021-006	Nut	1
64	060005-007	Lockwasher	1
65	060021-007	Nut	4
66	060030-012	Flatwasher	2
67	103376	Shaft	1
68	103596	Retainer	1
69	103592	Spring	1
70	060015-048	Screw	1
71	100974	Mounting Plate	1
72	060015-068	Screw	2
73	060005-022	Lockwasher	2
74	060030-204	Flatwasher	2
75	074486-003	Stop Bushing	2
76	103378	Poly Stop	1
77	100958	Pivot Arm	1
78	060030-020	Flatwasher	2
79	060009-011	Retaining Ring	2
80	100963	Arm	1
81	076463	Spring	2
82	076464-004	Cable Assembly	1
	074755-089	Cable	1
	074757	Fitting	2
	074756	Thimble Wire	2
83	060030-105	Flatwasher	4

* To select appropriate part number, refer to truck data number.
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 Refer to Introduction.



INDEX	PART NUMBER	PART NAME	NUMBER REQUIRED
1	060020-026*	Screw 100 mm (4.0 inch) Long	AR
	060020-034*	Screw 85 mm (3.25 inch) Long	AR
	060020-033*	Screw 70 mm (2.75 inch) Long	AR
	060030-106	Flatwasher	8
	060005-014	Lockwasher	8
2	060021-015	Nut	8
	060020-015	Screw	4
	060005-014	Lockwasher	4
3	060030-106	Flatwasher	4
	060017-014	Screw	4
	060005-009	Lockwasher	4
4	117980*	Block	2
	087373*	Switch RGS1 & RGS2	2
	060012-022	Screw	4
5	060005-048	Lockwasher	4
	117992-001	Spacer 6.5 mm (.25 inch) Thick	AR
	117992-002	Spacer 25 mm (1.0 inch) Thick	AR
6	117992-003	Spacer 1.5 mm (.06 inch) Thick	AR
	117991-001	Spacer 6.5 mm (.25 inch) Thick	AR
	117991-002	Spacer 25 mm (1.0 inch) Thick	AR
7	117991-003	Spacer 1.5 mm (.06 inch) Thick	AR
		L.H. Aisle Guide Bracket Shown (see Table)	1
		R.H. Aisle Guide Bracket (see Table)	1
8	117983*	Skid Block	2
	060017-019	Screw	4
	060005-009	Lockwasher	4
9	117982	Shear Pin	4
10	060030-068	Flatwasher	AR
11	065081-021	Bearing	4
12	092538*	Wheel Assembly (included 11)	2
	081645-020	Wheel 50 x 100 mm (2 x 4 inch)	2
13	076048-001	Lubrication Fitting	4
14	117979	Axle	2
15		Yoke (see Table)	2
16	094537*	Extension Spring	4
17	084022-002*	Poly Stop	2
18	105838*	Axle 50 x 65 mm (2 x 2.5 inch) Wheel	2
	105839*	Axle 50 x 100 mm (2 x 4 inch) Wheel	2
19	060030-104	Flatwasher 50 x 65 mm (2 x 2.5 inch) Wheel	4
	060030-050	Flatwasher 50 x 100 mm (2 x 4 inch) Wheel	4
20	073894*	Bearing 50 x 65 mm (2 x 2.5 inch) Wheel	4
	073893*	Seal 50 x 65 mm (2 x 2.5 inch) Wheel	4
	065081-021*	Bearing 50 x 100 mm (2 x 4 inch) Wheel	4

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