SP 3500 SERIES
AC Traction

PARTS MANUAL



Order Number: 812749-006
Revision: A • Printed in Germany

MidWestTech | Crown SP 3500 Series AC Traction High Level Order Picker Parts Manual |... Order the manual at mid-west-tech.com >

CROWN

TABLE OF CONTENTS

COVERS	PAGE	SERIAL NO. CUT	REV.
Power Unit	2		
Battery Retainers, Rollers, Switches	6		

HYDRAULIC SYSTEM	PAGE	SERIAL NO. CUT	REV.
Hydraulic System Power Unit One Speed Lift	12		
Hydraulic Parts - Two Speed Lift	16		
Hydraulic System - Mast	20		
Mast w/Lifting Fork	22		
Platform	26		
Hydraulic Parts Power Unit Single Speed w/Lifting Forks	28		
Power Unit Two Speed Lift w/Lifting Forks	32		
Lift Pump	36		
Lift Pump Motor	38		
Lift Motor with Temperature and Brush Wear Sensors	40		
Manifold - One Speed Lift	42		
Hydraulic Manifold - 2 Speed Lift	44		
Manifold One Speed Lift w/Lifting Forks	46		
Manifold Two Speed w/Lifting Forks	48		

DRIVE UNIT	PAGE	SERIAL NO. CUT	REV.
Drive Unit	52		
Drive Unit Lubrication System	58		
AC Traction Motor - 24 V	60		
Drive Tire	62		

ELECTRICAL SYSTEM	PAGE	SERIAL NO. CUT	REV.
Electrical Components - Power Unit	66		
Platform	70		
Electrical - Power Unit Modules	72		
Freezer/Corrosion Distribution Board	74		
Distribution Panel - Power Unit	76		
Electrical - Distribution Panel - Platform	78		
Contactor Panel - Single/Dual Pump	80		
Wire Guidance	84		
Contactor Panel - Single/Dual Pump w/Lifting Fork	86		
Line Driver	90		
Contactor	94		
Contactor	96		
Control Module	98		
Control Module - Back	102		
Connectors	106		
Control Cable TL Mast	110		
Control Cable TT Mast	112		
Switch Panel	116		
Steering Feedback	118		
Flashing Light	120		
Mast Mounted Lights	122		
Overhead Console	124		
Strobe Light	128		

MidWestTech | Crown SP 3500 Series AC Traction High Level Order Picker Parts Manu... Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

BRAKE SYSTEM	PAGE	SERIAL NO. CUT	REV.
Brake Pedal	132		
Brake	134		

STEERING	PAGE	SERIAL NO. CUT	REV.
Steering Gearbox	138		
Steering Command	142		
Steer Motor	144		

LIFTING MECHANISM	PAGE	SERIAL NO. CUT	REV.
TL Mast	148		
TT Mast	154		
Load Wheel	162		
TT Yoke	166		
TL Lift Chain	168		
TT Lift Chain	172		
Mast Chain Slack/Break Switch	178		

CYLINDERS	PAGE	SERIAL NO. CUT	REV.
Mast Cylinder	182		
Free Lift Cylinder - TT	186		
Lifting Fork	190		

PLATFORM	PAGE	SERIAL NO. CUT	REV.
Fork	194		
Side Gates	196		
Pallet Grab	202		
Rear Gate	206		
Platform Parts - Operator Side	210		
Platform Parts - TL Mast Side/Underside	216		
Platform Parts TT Mast Side/Underside	218		
Side Gate	224		
Platform Height Sensor	232		
Platform Fork	234		
Fork Carriage/Forks	238		
Lifting Fork Control Module	240		

MISCELLANEOUS	PAGE	SERIAL NO. CUT	REV.
Accessories	244		
Aisle Guide Wheels	246		
InfoLink Accessories	254		
Platform Load Deck	256		
Labels and Decals	258		

MidWestTech | Crown SP 3500 Series AC Traction High Level Order Picker Parts Manu... Order the manual at mid-west-tech.com >

Chart 1 - TT Mast				
Index 45 3rd Stage Mast 1.0SP				
Collapsed Height		Lift Height		Standard Mast Part Number
mm	(in)	mm	(in)	
2260	(89.0)	5715	(225.0)	132655-089
2415	(95.0)	6095	(240.0)	132655-095
2720	(107.0)	6860	(270.0)	132655-107
3025	(119.0)	7770	(306.0)	132655-119
3175	(125.0)	8230	(324.0)	132655-125
3330	(131.0)	8685	(342.0)	132655-131
3635	(143.0)	9145	(360.0)	132655-143
3785	(149.0)	9600	(378.0)	132655-149
Index 45 3rd Stage Mast 1.25SP				
Collapsed Height		Lift Height		Standard Mast Part Number
mm	(in)	mm	(in)	
2260	(89.0)	5715	(225.0)	132655-089
2415	(95.0)	6095	(240.0)	132655-095
2720	(107.0)	6860	(270.0)	132655-107
3025	(119.0)	7770	(306.0)	132655-119
3175	(125.0)	8230	(324.0)	132655-125
3330	(131.0)	8685	(342.0)	132655-131
3635	(143.0)	9145	(360.0)	132655-143
3785	(149.0)	9600	(378.0)	132655-149
3940	(155.0)	9300	(366.0)	132655-155

MidWestTech | Crown SP 3500 Series AC Traction High Level Order Picker Parts Manu... Order the manual at mid-west-tech.com >

Chart 1 - Mast Lift Chain								
Index 1 Chain (Mast) 1.0TT								
Collapsed Height		Lift Height		Length Required			Part Number	Order Quantity Per Truck
mm	(in)	mm	(in)	mm	(in)	Links		
2325	(91.0)	5715	(225.0)	2115	(83.25)	111	042907-024	2
2415	(95.0)	6095	(240.0)	2270	(89.25)	119	042907-002	2
2720	(101.0)	6860	(270.0)	2570	(101.25)	135	042907-003	2
3025	(119.0)	7770	(306.0)	2880	(113.25)	151	042907-025	2
3175	(125.0)	8230	(324.0)	3030	(119.25)	159	042907-035	2
3330	(131.0)	8685	(342.0)	3180	(125.25)	167	042907-026	2
3635	(143.0)	9145	(360.0)	3485	(137.25)	183	042907-036	2
3785	(149.0)	9600	(378.0)	3640	(143.25)	191	042907-037	2
Index 1 Chain (Mast) 1.25TT								
Collapsed Height		Lift Height		Length Required			Part Number	Order Quantity Per Truck
mm	(in)	mm	(in)	mm	(in)	Links		
2325	(91.0)	4955	(195.0)	2115	(83.25)	111	042907-024	2
2415	(95.0)	5335	(210.0)	2270	(89.25)	119	042907-002	2
2720	(101.0)	6095	(240.0)	2570	(101.25)	135	042907-003	2
3025	(119.0)	7010	(276.0)	2880	(113.25)	151	042907-025	2
3175	(125.0)	7470	(294.0)	3030	(119.25)	159	042907-035	2
3330	(131.0)	7925	(312.0)	3180	(125.25)	167	042907-026	2
3635	(143.0)	8385	(330.0)	3485	(137.25)	183	042907-036	2
3785	(149.0)	8840	(348.0)	3640	(143.25)	191	042907-037	2
3940	(155.0)	9300	(366.0)	3790	(149.25)	199	042907-038	2

MidWestTech | Crown SP 3500 Series AC Traction High Level Order Picker Parts Manu... Order the manual at mid-west-tech.com >

Chart 1 - Aisle Guide Bracket/Yoke (Cont'd)				
Width Across Guide Wheels		Index 14 Aisle Guide Bracket		Index 23 Yoke
mm	in	RH	LH	
1346	53	117968-003	117969-003	117975-003
1353	53.25	117968-003	117969-003	117975-003
1359	53.50	117968-004	117969-004	117975-004
1365	53.75	117968-004	117969-004	117975-004
1372	54	117968-004	117969-004	117975-004
1378	54.25	117968-004	117969-004	117975-004
1384	54.50	117968-004	117969-004	117975-004
1391	54.75	117968-004	117969-004	117975-004
1397	55	117968-004	117969-004	117975-004
1403	55.25	117968-004	117969-004	117975-004
1410	55.50	117968-004	117969-004	117975-004
1416	55.75	117968-004	117969-004	117975-004
1422	56	117968-004	117969-004	117975-004
1429	56.25	117968-004	117969-004	117975-004
1435	56.50	117968-005	117969-005	117975-005
1441	56.75	117968-005	117969-005	117975-005
1448	57	117968-005	117969-005	117975-005
1454	57.25	117968-005	117969-005	117975-005
1461	57.50	117968-005	117969-005	117975-005
1467	57.75	117968-005	117969-005	117975-005
1473	58	117968-005	117969-005	117975-005
1480	58.25	117968-005	117969-005	117975-005
1486	58.50	117968-005	117969-005	117975-005
1492	58.75	117968-005	117969-005	117975-005
1499	59	117968-005	117969-005	117975-005
1505	59.25	117968-005	117969-005	117975-005
1511	59.50	117968-006	117969-006	117975-006
1518	59.75	117968-006	117969-006	117975-006

MidWestTech | Crown SP 3500 Series AC Traction High Level Order Picker Parts Manu... Order the manual at mid-west-tech.com >

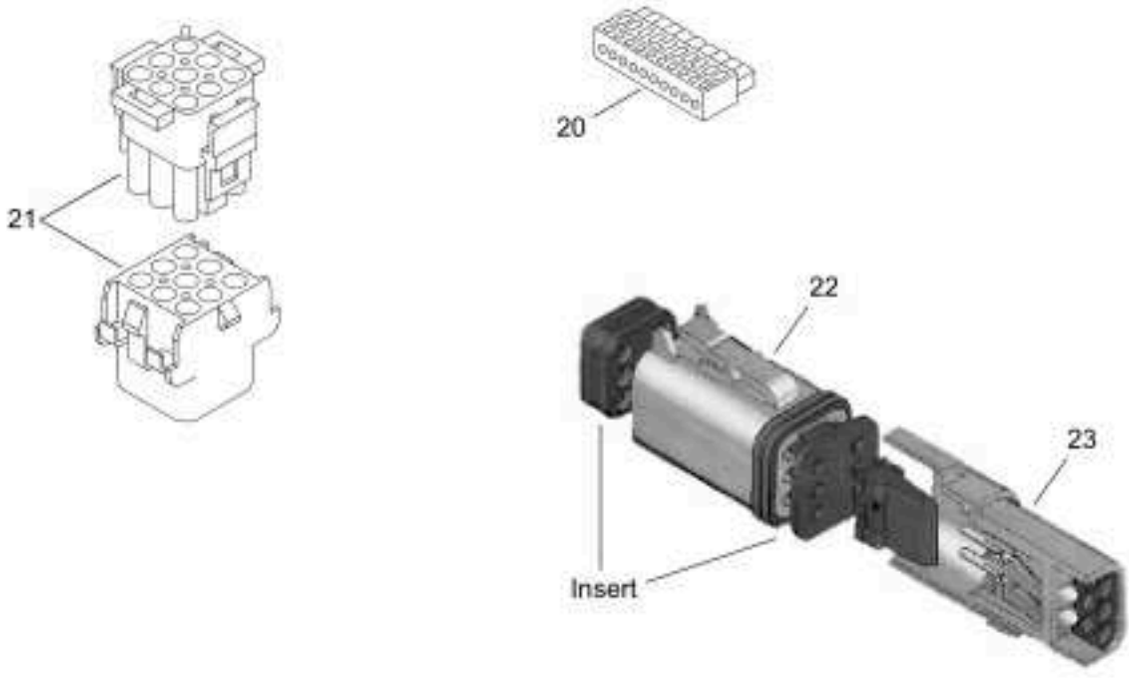






Figure 12166-01

MidWestTech | Crown SP 3500 Series AC Traction High Level Order Picker Parts Manu... Order the manual at mid-west-tech.com >