

PARTS MANUAL

ELECTRIC

**E100XL3, E100XL3S, E120XL3,
E70XL3, E80XL3
(C098)**

CUSTOMER EDITION

HYSTER

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ABBREVIATIONS QUICK REFERENCE SHEET

Listed below are abbreviations used in parts manuals to denote the following expressions:

TERM	DEFINITION	TERM	DEFINITION
Amp	Amperes	FRE	Freezer Environment
AR	As Required	in.	inches
BDI	Battery Discharge Indicators	LPG	Liquefied Petroleum Gas
BWI	Brush Wear Indicator	MAP	Manifold Absolute Pressure
CE	Communicator End	mm	millimeters
CRE	Corrosive Environment	MSTS	Microprocessor Spark Timing System
D/B	Date Break	NPT	National Pipe Threads
dbA	Decibel "A" Scale	O/S	Oversize
DE	Drive End	PTO	Power Take Off
ECH	Empty Container Handler	RPM	Revolutions per Minute
ECH-3	Empty Container Handler - 3 High Stacking	S/N	Serial Number
ECH-4	Empty Container Handler - 4 High Stacking	TMM	Truck Management Module
ECH-5	Empty Container Handler - 5 High Stacking	UL Type D	Diesel-Powered Safety Rating
ECH-6	Empty Container Handler - 6 High Stacking	UL Type DS	Diesel-Powered Safety Rating
ECH-7	Empty Container Handler - 7 High Stacking	UL Type E	Battery-Powered Safety Rating
ECM	Electronic Control Module	UL Type EE	Battery-Powered Safety Rating
ECN	Engineering Change Notice	UL Type ES	Battery-Powered Safety Rating
EEPROM	Electrically Erasable Programmable Read Only Memory	UL Type G	Gasoline-Powered Safety Rating
EPROM	Electrically Programmable Read Only Memory	UL Type GS	Gasoline-Powered Safety Rating
		UL Type LP	Gas-Powered Safety Rating
		UL Type LPS	LP Gas-Powered Safety Rating
		U/S	Undersize
		UL	Underwriters Laboratory
		V	Volts

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FRAME**

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SEMI SUSPENSION SEAT

ITEM	PART NO.	DESCRIPTION	QTY
	2041645	Semi-Suspension Seat	1
1	1480403	Back Cushion	1
2	1480404	Seat Cushion (With Switch).....	1
3	a 1480405	Slider Kit	1
4	1461081	Seat Belt Kit.....	1
5	335989	Base	1
6	335991	Cover	1

FOOTNOTES:

a Not Illustrated

HOOD**KEY:****A: E70-80XL3, E100XL3S****B: E100-120XL3**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1461930	Hood	1	..
1	1461931	Hood .....	..	1
2	1462074	Hood (LH)	1	..
2	1462075	Hood (LH) .....	..	1
3	1462078	Hood (RH)	1	..
3	1462079	Hood (RH) .....	..	1
4	1462088	Hinge	2	..
4	1462089	Hinge .....	..	2
5	1302505	Hinge	1	1
6	296215	Capscrew.....	12	12
7	388768	Bracket.....	2	2
8	292500	Capscrew.....	10	10
9	320156	Washer	30	30
10	313805	Nut	26	26
11	287816	Capscrew.....	8	8
12	362031	Trim	1	1
13	375295	Trim	1	1
14	375296	Trim	1	1
15	325980	Trim	6	6
16	388752	Trim	2	2
17	362043	Adhesive	AR	AR
18	362030	Handle	2	2
19	1302519	Pin	1	1
20	136687	Nut	4	4
21	292680	Lockwasher.....	4	4
22	182118	Retaining Ring	2	2
23	1302506	Plate	1	..
23	1302507	Plate	1

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**ELECTRICAL
CONTACTOR HYDRAULIC
DUAL PUMPS**

ITEM	PART NO.	DESCRIPTION	QTY
1	2042744	Wire Harness (Main) (☞ Figure 2-12)	1
2	136749	Capscrew.....	1
3	313828	Nut.....	1
4	320157	Washer	1
5	1309280	Clamp	2
6	129563	Strap Clamp.....	AR
7	1468417	Power Cable	1
8	1468424	Wire Harness.....	1
9	1468418	Power Cable	1
10	1468425	Wire Harness.....	1
11	1463849	Grease.....	AR
12	b 1468442	Battery Connector (48 Volt)	1
12	c 1468443	Battery Connector (36 Volt)	1
12	b 1468441	Battery Connector (36 Volt)	1
12	c 1468444	Battery Connector (48 Volt)	1
13	292507	Capscrew.....	2
14	292680	Lockwasher.....	2
15	320156	Washer	4
16	136687	Nut.....	2
17	c 314964	Battery Disconnect	1
17	b 199926	Battery Disconnect	1
18	d 325985	Timer	1
19	d 292680	Lockwasher.....	1
20	d 136687	Nut.....	1
21	d 292503	Capscrew.....	1
22	d 320156	Washer	1
23	a 292507	Capscrew.....	2
24	a 292680	Lockwasher.....	2
25	a 320156	Washer	4
26	a 136687	Nut.....	2
27	a 298273	Spacer	1
28	g 1360568	Horn (48 Volt)	1
28	g 1360566	Horn (36 Volt)	1
28	h 1483660	Horn (36/48 Volt)	1
29	g 1459850	Electrical Connector	AR
30	1468423	Power Cable	1
31	1468422	Power Cable	1
32	1474666	Power Cable	1
33	1474667	Power Cable	1
34	1483581	Controller (☞ Figure 2-6)	1
35	1460400	Dash Display (Without Function Keys)	1
35	f 1482558	Dash Display (With Function Keys)	1
35	e 1460401	Dash Display (With Function Keys)	1

FOOTNOTES:

- a** "A" Position Battery Connector
- b** Type SB
- c** Type SBE
- d** Without Power Steering
- e** ⇒ S/N PENDING PER ECN 73485

**CONTACTOR PANEL
TRANSISTOR HOIST**

ITEM	PART NO.	DESCRIPTION	QTY
	1466050	Contactor Panel	1
1	1479163	Base	1
2	389184	Contactor (Pump 2) (☞ Figure 2-11)	1
3	1467047	Contactor (60 Volt) (Line) (☞ Figure 2-10)	2
4	1374236	Bracket	1
5	1393356	Capacitor (Blue)	2
6	389193	Fuse Block.....	1
7	1462318	Insulator.....	1
8	1374210	Fuse Block.....	1
9	1301510	Bus Bar.....	3
10	314878	Fuse (15 Amp).....	4
11	1308958	Label (Fuse) (15 Amp)	4
12	379235	Nameplate	1
13	1479165	Bus Bar.....	1
14	1479166	Wire Harness	1
15	389184	Contactor (1A) (☞ Figure 2-11)	1

**WIRE HARNESS
MAIN**

ITEM	PART NO.	DESCRIPTION	QTY
	2042744	Wire Harness	1
1	2035275	Connector (Traction Controller)	1
2	2035275	Connector (Pump Controller)	1
3	1330421	Connector (Main Accessory Harness)	1
4	1330427	Lock.....	1
5	1330423	Connector (Contactor Panel).....	1
6	1330429	Lock.....	1
7	1340785	Connector (Dash Display)	1
8	1330421	Connector (Steering Column).....	1
9	1330427	Lock.....	1
10	1330419	Connector (Seat Switch)	1
11	1330424	Lock.....	1
12	1330420	Connector (Accelerator POT)	1
13	1330426	Lock.....	1
14	303294	Rectifier	4

TRANSMISSION ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	375428	Transmission Assembly	1
1	375152	Housing	1
2	346881	Bearing Cap	2
3	234038	Dowel Pin	4
4	293696	Capscrew	4
5	296426	Washer	4
6	b 352168	Differential Assembly.....	1
6	c 2045422	Differential Assembly.....	1
7	b	Housing	1
7	c 1495739	Case Set	1
8	b 350383	Washer	2
8	c 1495737	Washer	2
9	b 372924	Spider	1
9	c 1495734	Spider	1
10	b 373126	Washer	4
10	c 1495735	Washer	4
11	b 373127	Gear	4
11	c 1495736	Pinion	4
12	b 372106	Bolt	8
12	c 1484740	Bolt	8
13	b 221771	Washer	8
13	c 1484741	Washer	8
14	b 373128	Gear	2
15	b	Housing	1
16	375108	Gear Set	1
17	97577	Bolt	12
18	a 221771	Washer	12
18	353283	Washer	12
19	230424	Bearing Cup	2
20	230425	Bearing Cone	2
21	346884	Nut	2
22	334447	Plate	2
23	136749	Capscrew	12
24	292681	Lockwasher	12
25	289710	Thrust Screw	1
26	15034	Nut	1
27	346875	Shim (0.014 in.)	AR
27	346876	Shim (0.015 in.)	AR
27	346877	Shim (0.016 in.)	AR
27	346878	Shim (0.020 in.)	AR
27	346879	Shim (0.021 in.)	AR
27	346880	Shim (0.025 in.)	AR
28	375182	Bearing Cup	1
29	375183	Bearing Cone	1
30	375011	Spacer	1
31	375010	Gear	1
32	375016	Spacer	1
33	346842	Shim (0.014 in.)	AR
33	346843	Shim (0.015 in.)	AR
33	346844	Shim (0.016 in.)	AR
33	346845	Shim (0.020 in.)	AR

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STEERING LINES

ITEM	PART NO.	DESCRIPTION	QTY
1	325680	Steering Motor (☞ Figure 4-10)	1
1	1380862	Steering Motor (☞ Figure 4-11)	1
2	39362	O-Ring	1
3	375005	Steering Pump (☞ Figure 4-9)	1
4	15156	Lockwasher	2
5	16597	Capscrew	2
6	16745	Fitting	1
6	16484	O-Ring	1
7	186227	Fitting	1
8	130845	Clamp	2
9	129995	Hose	1
10	249668	Nut	4
11	15155	Lockwasher	4
12	15175	Washer	4
13	317594	Mount	4
14	18509	Capscrew	4
15	353989	Hose	2
16	16549	Fitting	2
16	16483	O-Ring	1
17	16999	Fitting	2
18	1321173	Steering Cylinder (☞ Figure 4-8)	1
19	325411	Hose	2
20	355405	Hose	1
21	114694	Hose	1
22	2004005	Strap Clamp	1
23	17061	Fitting	1
24	16923	Fitting	1
25	1470907	Adapter	1
26	a 1342951	Pressure Switch	1
27	a 17061	Fitting	1
28	a 1345955	Adapter	1

FOOTNOTES:

a Power Steering On-Demand

STEERING CONTROL UNIT
(S/N C098N-01856⇒)

ITEM	PART NO.	DESCRIPTION	QTY
	1453538	Steering Control Unit	1
1	.....	Housing	1
1	.....	Spool	1
1	.....	Sleeve.....	1
2	.....	Seal	1
3	1451701	Spacer	1
4	1451697	Bearing.....	1
5	1455770	Ring.....	1
6	1451698	Pin	1
7	1455771	Spring.....	1
8	1451700	Shaft.....	1
9	.....	O-Ring.....	1
10	1451703	Plate	1
11	1456690	Gear Set.....	1
12	.....	O-Ring.....	2
13	1455773	Cover.....	1
14	.....	O-Ring.....	5
15	1355335	Ball	1
16	1451696	Stop.....	1
17	1456691	Screw	1
17	.....	O-Ring.....	1
18	1456692	Screw	4
18	O-Ring.....	1
19	1451707	Ball	1
	1455778	Seal Kit (Includes Items 2, 9, 12, 14)	

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BRAKE/ACCELERATOR SYSTEM

**SEAT BRAKE
13.0 INCH MOTOR**

ITEM	PART NO.	DESCRIPTION	QTY
	388776	Brake Assembly	1
1	1308526	Backing Plate	1
2	1308527	Camshaft	1
3	1308528	Lever.....	1
4	1308529	Clip	1
5	1327196	Shoe and Lining	2
6	1308531	Spring.....	2

HYDRAULICS SINGLE PUMP AND MOTOR E70-80XL3, E100XL3S

ITEM	PART NO.	DESCRIPTION	QTY
1	375454	Plug	1
2	188357	Hose	1
3	375474	Hose	1
4	160266	Fitting.....	2
5	61056	O-Ring	1
6	136985	Capscrew.....	8
7	292682	Lockwasher.....	8
8	190757	Fitting.....	2
9	15866	O-Ring	1
10	222584	Fitting.....	1
10	e 1321928	Fitting.....	2
11	1455066	Hydraulic Pump (Kayaba) (Dual) (☞ Figure 6-3)	1
11	1455761	Pump (Single) (☞ Figure 6-3)	1
11	2041876	Pump (12 cc) (☞ Figure 6-4)	1
12	df 361958	Hydraulic Motor (☞ Figure 6-5)	1
12	de 1390292	Hydraulic Motor (☞ Figure 6-6)	1
12	cf 1390293	Hydraulic Motor (☞ Figure 6-6)	1
12	af 1390294	Hydraulic Motor (☞ Figure 6-6)	1
12	de 2306914	Hydraulic Motor (☞ Figure 6-6)	1
12	acf 2305459	Hydraulic Motor (☞ Figure 6-6)	1
12	be 1390181	Hydraulic Motor (GE) (☞ Figure 6-8)	1
12	ae 324845	Hydraulic Motor (GE) (☞ Figure 6-8)	1
12	ce 2045528	Hydraulic Motor (☞ Figure 6-7)	1
12	ce 2045529	Hydraulic Motor (☞ Figure 6-7)	1
13	373675	Bracket.....	1
14	325058	Rod	1
15	373875	Grommet.....	2
16	15178	Washer	2
17	355374	Clamp	2
18	136681	Capscrew.....	3
19	292681	Lockwasher.....	7
20	239503	Nut	4
21	g 355329	Coupling	1
21	g 389823	Insert	1
21	h 1453260	Coupler	1
22	16828	Capscrew.....	2
23	15156	Lockwasher.....	2
24	16474	Fitting.....	2
25	136749	Capscrew.....	4
26	320157	Washer	1
27	355327	Bumper	1
28	316835	Nut	2
29	15175	Washer	3
30	369804	Clamp	4
31	1462143	Hose	1
32	136749	Capscrew.....	1
33	292681	Lockwasher.....	1
34	239503	Nut	1
35	110322	Clamp	2
36	17119	Fitting.....	1

HYDRAULIC FILTER

ITEM	PART NO.	DESCRIPTION	QTY
1	375210	Filter Head	1
2	15888	O-Ring	1
3	375215	Dipstick	1
3	375211	Blade	1
4	218612	Cap	1
5	244272	Screw	1
6	16487	O-Ring	1
7	375212	Clamp	1
8	153656	Screw	1
9	15086	Nut	1
10	15056	Nut	1
11	15156	Lockwasher	1
12	361973	Spacer	1
13	325930	Filter	1
14	121452	Breather	1
15	15314	Fitting	1
15	273338	Thread Sealant	AR
16	222505	Fitting	1
17	a 14595	Fitting	1

FOOTNOTES:

a S/N PENDING PER ECN 73815 ⇒

**HYDRAULIC VALVE
FIVE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
	1460689	Valve	1
1	.....	Rod.....	1
2	.....	Nut.....	2
3	.....	Nut.....	4
4	.....	Rod.....	2
5	14591	Fitting.....	1
5	16481	O-Ring.....	1
6	352056	Spool Section	2
6	.....	Housing.....	1
7	.....	Spool.....	1
8	205121	Seal Plate.....	2
9	a 154687	O-Ring.....	2
9	a 205122	Wiper.....	2
10	57664	O-Ring.....	1
11	188516	Spring Seat	2
12	188517	Spring.....	1
13	188519	Cap	1
14	12949	Capscrew	2
15	188518	Spool End	1
16	205123	Spring.....	1
17	205120	Poppet.....	1
18	16706	Screw	2
19	1309415	Spool Section	1
19	.....	Housing.....	1
20	.....	Spool.....	1
21	205121	Seal Plate.....	2
22	a 154687	O-Ring.....	2
22	a 205122	Wiper.....	2
23	57664	O-Ring.....	1
24	.....	Piston	1
25	320289	Spring Seat	2
26	188517	Spring.....	1
27	341462	Spring.....	1
28	188519	Cap	1
29	12949	Capscrew	2
30	205120	Poppet.....	1
31	205123	Spring.....	1
32	16706	Screw	2
33	16480	O-Ring.....	1
33	386015	Spool End	1
34	320291	Spool End	1
35	378424	Relief Valve	2
35	1309419	Seal Kit.....	1
36	385473	Spool Section	1
36	.....	Housing.....	1
37	.....	Spool.....	1
38	205121	Seal Plate.....	2
39	a 154687	O-Ring.....	2
39	a 205122	Wiper.....	2
40	188516	Spring Seat	2
41	188517	Spring.....	1

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MAST-TWO STAGE LIMITED FREE-LIFT

**INNER MAST
TWO STAGE LIMITED FREE-LIFT
(S/N PENDING PER ECN 73815⇒)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)
		Mast Group Number	A703 3390	A703 3990
	Mast Assembly	8512150	8512156	8512162
1	Inner Mast	1401800	1401805	1401812

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		3050 mm (120.1 in.)	3650 mm (143.7 in.)
		Mast Group Number	A702 3650
	Mast Assembly	8512100	8512106
1	Inner Mast	1401800	1401806

KEY:

A: E70-80XL3

B: E100-120XL3

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Mast Assembly	1	1
1	a	Inner Mast	1	1
2	1399203	Load Roller.....	2	2
3	1465072	Snap Ring	2	2
4	126765	Shim (0.020 in.).....	12	12
5	1387745	Chain Sheave.....	2	..
5	1387744	Chain Sheave.....	..	2
6	126764	Bearing	1	1
7	40667	Snap Ring.....	2	2
8	1389959	Bracket	2	2
9	320161	Washer.....	2	2
10	292683	Lockwasher.....	2	2
11	132860	Capscrew	2	2

FOOTNOTES:

a Refer to Table

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**MAIN CYLINDER
TWO STAGE LIMITED FREE-LIFT
E70-80XL3, E100XL3S
(⇒S/N PENDING PER ECN 73815)**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS					
		3020 mm (118.9 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	4950 mm (194.9 in.)	5550 mm (218.5 in.)	6150 mm (242.1 in.)
		Mast Group Number	A510 3020	A510 3650	A510 4250	A510 4950	A510 5550	A510 6150
	Cylinder Group Number	8602470	8602471	8602472	8602473	8602474	8602469
	Lift Cylinder	1331307	1331308	1331309	1331310	1331311	1331318
1	Rod	351547	351548	351549	366546	366547	381102
8	Tube	351569	351570	351571	366542	366543	381094
9	Spacer	----	----	----	367139	367140	381110

KEY:

A: 119.0-218.5 in. Lift Height

B: 242.0 in. Lift Height

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Lift Cylinder.....	2	2
1	a	Rod.....	1	1
2	1310371	Wiper Ring.....	1	..
2	1329784	Wiper Ring.....	..	1
3	638249	Back-Up Ring	1	..
3	638250	Back-Up Ring .....	..	1
4	201829	Wiper Ring.....	..	1
4	270077	Rod Seal.....	1	..
5	215301	Wear Ring .....	..	1
5	215425	Wear Ring	1	..
6	1329785	Retainer.....	1	..
6	1329786	Retainer.....	..	1
7	15879	O-Ring.....	..	1
7	57664	O-Ring.....	1	..
8	a	Tube.....	1	1
9	a	Spacer.....	1	1
10	351532	Back-Up Ring .....	..	1
10	638249	Back-Up Ring	1	..
11	270077	Rod Seal.....	1	..
11	358300	Seal.....	..	1
12	297532	Wear Ring	1	..
12	351531	Wear Ring .....	..	1
13	39348	O-Ring.....	1	1
14	257913	Check Valve.....	1	1
15	297531	Washer	1	1
15	637635	Washer (Optional)	1	1
16	187388	Snap Ring.....	1	1

HEADER HOSE

TWO STAGE LIMITED FREE-LIFT

(⇒ S/N PENDING PER ECN 73815)

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS					
		2760 mm (108.7 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	4690 mm (184.6 in.)	5290 mm (208.3 in.)	5890 mm (231.9 in.)
		Mast Group Number	A510 2760	A510 3390	A510 3990	A510 4690	A510 5290	A510 5890
10	Hose	389900	389901	389902	389903	389904	389905
11	Tube	389917	389918	389919	389920	389921	389922
13	Tube	389937	389938	389939	389940	389941	389942
20	Hose	360444	388479	388481	388472	388473	388474

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS					
		3020 mm (118.9 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	4950 mm (194.9 in.)	5550 mm (218.5 in.)	6150 mm (242.1 in.)
		Mast Group Number	A510 3020	A510 3650	A510 4250	A510 4950	A510 5550	A510 6150
10	Hose	389900	389901	389902	389903	389904	389905
11	Tube	389917	389918	389919	389920	389921	389922
13	Tube	389937	389938	389939	389940	389941	389942
20	Hose	360444	388479	388481	388472	388473	388474

KEY:**A:** Three Function Control Valve**B:** Four Function Control Valve**C:** Five Function Control Valve

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	1332705	Sheave.....	1	2	2
1	332057	Bushing	1	1	1
2	357529	Stubshaft	1	2	2
3	16458	Fitting.....	2	2	2
4	16449	Fitting.....	2	2	2
5	292535	Capscrew.....	1	1	1
6	300932	Washer	1	1	1
7	292683	Lockwasher.....	1	1	1
8	340054	Spacer	2	2	2
9	1360508	Clamp	2	2	2
10	b	Hose	2	4	4
11	b	Tube	2	2	2
12	1301925	Hose	2	2	2
13	b	Tube .....	..	2	2
14	388476	Hose .....	..	2	2
15	1301924	Plate	1	1	1

**OUTER MAST
THREE STAGE FULL FREE-LIFT
(⇒ S/N PENDING PER ECN 73815)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		4060 mm (159.8 in.)	4620 mm (181.9 in.)	4940 mm (194.5 in.)	5240 mm (206.3 in.)	5690 mm (224.0 in.)
		Mast Group Number	A511 4060	A511 4620	A511 4940	A511 5240	A511 5690
	Mast Assembly	379818	1317716	1317717	1317718	388422
1	Outer Mast	1381756	1381757	1381758	1381759	1381760
12	Chain	357580	338647	152404	339934	347245

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		4320 mm (170.1 in.)	4880 mm (192.1 in.)	5200 mm (204.7 in.)	5500 mm (216.5 in.)	5950 mm (234.3 in.)
		Mast Group Number	A511 4320	A511 4880	A511 5200	A511 5500	A511 5950
	Mast Assembly	379815	1317712	1317713	1317714	388421
1	Outer Mast	1381756	1381757	1381758	1381759	1381760
12	Chain	243974	182342	194607	191085	191089

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assembly	1
1	a	Outer Mast.....	1
2	341144	Stubshaft.....	2
3	187489	Snap Ring.....	2
4	104506	O-Ring.....	4
5	161272	Shim (0.007 in.).....	AR
5	161273	Shim (0.020 in.).....	AR
6	104264	Bearing Strip	2
7	221717	Nut.....	2
8	1332704	Washer	2
9	351666	Chain Anchor (E70-80XL3, E100XL3S).....	2
9	351667	Chain Anchor (E100-120XL3).....	2
10	327591	Pin (E70-80XL3, E100XL3S).....	2
10	339932	Pin (E100-120XL3).....	2
11	15222	Cotter Pin	2
12	a	Chain.....	2
13	1333649	Load Roller (Standard).....	2
13	1343002	Load Roller (0.030 in.).....	2
13	1343003	Load Roller (0.060 in.).....	2
14	126765	Shim (0.020 in.).....	AR

FOOTNOTES:

a Refer to Table

**INNER MAST
THREE STAGE FULL FREE-LIFT
(S/N PENDING PER ECN 73815⇒)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4087 mm (160.9 in.)	4640 mm (182.7 in.)	5240 mm (206.3 in.)
		Mast Group Number	A705 4087	A705 4640	A705 5240
	Mast Assembly	8512450	8512453	8512457
1	Inner Mast	1395903	1395906	1395910

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5500 mm (216.5 in.)
		Mast Group Number	A704 4365	A704 4665	A704 4900	A704 5500
	Mast Assembly	8512400	8512402	8512403	8512407
1	Inner Mast	1395903	1395905	1395906	1395910

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assembly	1
1	a	Inner Mast	1
2	1500744	Stub Shaft	2
3	1511882	Load Roller	2
4	126765	Shim (0.020 in.)	12
5	1465072	Snap Ring.....	2
6	1331991	Chain Anchor (E70-80XL3)	2
6	1387285	Chain Anchor (E100-120XL3)	2
7	339932	Pin	2
8	15222	Cotter Pin	2
9	221717	Nut.....	4
10	15224	Cotter Pin	2

FOOTNOTES:

a Refer to Table

**MAIN LIFT CYLINDER
THREE STAGE FULL FREE-LIFT
(⇒S/N PENDING PER ECN 73815)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		4060 mm (159.8 in.)	4620 mm (181.9 in.)	4940 mm (194.5 in.)	5240 mm (206.3 in.)	5690 mm (224.0 in.)
		Mast Group Number	A511 4060	A511 4620	A511 4940	A511 5240	A511 5690
	Cylinder Group Number	8602446	8602449	8602447	8602448	8602450
	Lift Cylinder	1332558	1332561	1332559	1332560	1332562
1	Rod	351653	384559	351654	351655	388430
8	Spacer	351674	351675	351675	351675	381114
18	Tube	351659	384557	351660	351661	388426

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		4320 mm (170.1 in.)	4880 mm (192.1 in.)	5200 mm (204.7 in.)	5500 mm (216.5 in.)	5950 mm (234.3 in.)
		Mast Group Number	A511 4320	A511 4880	A511 5200	A511 5500	A511 5950
	Cylinder Group Number	8602451	8602454	8602452	8602453	8602455
	Lift Cylinder	1331319	1331322	1331320	1331321	1331323
1	Rod	351650	384587	351651	351652	388429
8	Spacer	----	351673	351673	351673	381113
18	Tube	351656	384585	351657	351658	388425

KEY:

A: E70-80XL3, E100XL3S

B: E100-120XL3

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Lift Cylinder.....	2	2
1	a	Rod.....	1	1
2	1310371	Wiper Ring.....	1	..
2	1329784	Wiper Ring.....	..	1
3	638249	Back-Up Ring	1	..
3	638250	Back-Up Ring .....	..	1
4	201829	Wiper Ring.....	..	1
4	270077	Rod Seal.....	1	..
5	215301	Wear Ring .....	..	1
5	215425	Wear Ring	1	..
6	1329785	Retainer.....	1	..
6	1329786	Retainer.....	..	1
7	15879	O-Ring.....	..	1

**FREE LIFT CYLINDER
THREE STAGE FULL FREE-LIFT
(S/N PENDING PER ECN 73815⇒)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4087 mm (160.9 in.)	4640 mm (182.7 in.)	5240 mm (206.3 in.)
		Mast Group Number	A705 4087	A705 4640	A705 5240
	Cylinder Group Number	8605551	8605554	8605558
	Lift Cylinder	2036466	2036453	2036468
1	Shell	2037862	2037864	2037866
2	Rod	2037850	2037852	2037854

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5500 mm (216.5 in.)
		Mast Group Number	A704 4365	A704 4665	A704 4900	A704 5500
	Cylinder Group Number	8605501	8605503	8605504	8605508
	Lift Cylinder	2036440	2036422	2036441	2036443
1	Shell	2037868	2037870	2037871	2037873
2	Rod	2037833	2037835	2037836	2037838

KEY:**A: E70-80-XL3****B: E100-120XL3**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Lift Cylinder.....	1	1
1	a	Shell	1	1
2	a	Rod.....	1	1
3	2036282	Gland.....	1	..
3	2036283	Gland.....	..	1
4	1361302	Screw	1	1
5	257913	Check Valve.....	1	1
6	297531	Washer	1	1
7	187388	Snap Ring.....	1	1
8	2034274	Wiper Ring.....	1	1
9	637161	Rod Seal.....	1	1
10	164632	Back-Up Ring	1	..
10	615145	Back-Up Ring	1
11	15885	O-Ring	1	..
11	46629	O-Ring	1

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MAST-TWO STAGE FULL FREE-LIFT

**INNER MAST
TWO STAGE FULL FREE-LIFT
(⇒S/N PENDING PER ECN 73815)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		2760 mm (108.7 in.)	3390 mm (133.5 in.)
		Mast Group Number	A512 3390
	Mast Assembly	1306523	1306524
1	Inner Mast	373206	373207

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		3020 mm (118.9 in.)	3650 mm (143.7 in.)
		Mast Group Number	A512 3650
	Mast Assembly	1306521	1306522
1	Inner Mast	373206	373207

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assembly	1
1	a	Inner Mast	1
2	341144	Stubshaft.....	2
3	1333649	Load Roller (Standard).....	2
3	1343002	Load Roller (0.030 in.).....	2
3	1343003	Load Roller (0.060 in.).....	2
4	126765	Shim (0.020 in.).....	AR
5	187489	Snap Ring.....	2

FOOTNOTES:

a Refer to Table

**FREE LIFT
TWO STAGE FULL FREE-LIFT
(⇒S/N PENDING PER ECN 73815)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		2760 mm (108.7 in.)	3390 mm (133.5 in.)
		Mast Group Number	A512 3390
	Mast Assembly	1306523	1306524
7	Chain	339897	339933
18	Tube	1301946	1301947

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		3020 mm (118.9 in.)	3650 mm (143.7 in.)
		Mast Group Number	A512 3650
	Mast Assembly	1306521	1306522
7	Chain	194647	243974
18	Tube	1301946	1301947

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assembly	1
1	355044	Sheave	1
2	40667	Snap Ring.....	2
3	126764	Bearing.....	2
4	297573	Spacer	2
5	318139	Pin	1
6	292562	Capscrew	2
7	a	Chain	2
8	15222	Cotter Pin	2
9	327591	Pin (E70-80XL3, E100XL3S).....	2
9	339932	Pin (E100-120XL3).....	2
10	1331990	Chain Anchor (E70-80XL3, E100XL3S)	2
10	1331991	Chain Anchor (E100-120XL3)	2
11	292589	Capscrew	2
12	182376	Base Ring.....	2
13	. . . . .	Free-Lift Cylinder (☞ Figure 9-9)	1
14	373287	Washer	1
15	111975	Spring.....	1
16	318297	Fitting.....	1
17	296431	Washer	2
18	a	Tube.....	1
19	351668	Screw	1
20	178119	Clamp.....	1
21	368171	Cross-Head	1
22	302105	Screw	1

**HEADER HOSE
TWO STAGE FULL FREE-LIFT
(⇒S/N PENDING PER ECN 73815)**

E100-120XL3

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		2760 mm (108.7 in.)	3390 mm (133.5 in.)
		Mast Group Number	A512 2760	A512 3390
30	Hose	358295	358296
31	Hose	389911	389912
32	Tube	388496	388497
33	Tube	389923	389924
36	Hose	360444	388479
37	Channel	358281	358282
38	Channel	1307611	1307612

E70-80XL3, E100XL3S

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		3020 mm (118.9 in.)	3650 mm (143.7 in.)
		Mast Group Number	A512 3020	A512 3650
30	Hose	358295	358296
31	Hose	389911	389912
32	Tube	388496	388497
33	Tube	389923	389924
36	Hose	360444	388479
37	Channel	358281	358282
38	Channel	1307611	1307612

KEY:

- A: Three Function Control Valve**
- B: Four Function Control Valve**
- C: Five Function Control Valve**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	16458	Fitting.....	2	2	2
2	16466	Fitting.....	2	2	2
2	14761	Nut.....	1	1	1
3	248212	Snap Ring.....	2	2	2
4	368173	Bracket.....	2	2	2
5	297647	Sheave.....	2	2	2
6	368172	Shaft.....	1	1	1
7	1360508	Clamp.....	2	2	2
8	129563	Strap Clamp.....	2	2	2

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**INTEGRAL SIDE-SHIFT CARRIAGE
TWO STAGE LIMITED FREE-LIFT
1219 MM (48 IN.) CLASS III**

ITEM	PART NO.	DESCRIPTION	QTY
	1401696	Carriage (48 in.).....	1
1	1518333	Frame	1
2	1467147	Bearing Strip	1
3	1467148	Bearing Strip	1
4	16041	Lube Fitting.....	4
5	1467149	Seal	2
6	1467151	Bushing	2
7	1467150	Wiper Ring.....	2
8	1467632	Snap Ring.....	2
9	1467153	Rod.....	2
10	39365	O-Ring	2
11	1467145	Bearing Strip	1
12	1467146	Bearing Strip	1
13	1518332	Apron.....	1
14	1467154	Hook.....	2
15	1467633	Screw	6

**INTEGRAL SIDE-SHIFT
THREE STAGE FULL FREE-LIFT)
E100-E120XL3**

ITEM	PART NO.	DESCRIPTION	QTY
	1401682	Integral Side-Shift Assembly (48 in.) -8503022	1
1	1401702	Carriage (☞ Figure 10-16)	1
2	1511882	Load Roller	1
3	126765	Shim (0.020 in.)	6
4	1465072	Snap Ring	24
5	1399224	Spacer	6
6	1401745	Chain Anchor	2
7	339932	Pin	2
8	127727	Pin	2
9	15222	Cotter Pin	2
10	131358	Snap Ring	2
11	66333	Pin	2
12	1387993	Roller Bearing	2
13	16001	Lube Fitting	2
14	1465177	Bracket	2
15	192425	Shim (0.062 in.)	6
16	192424	Shim (0.030 in.)	8
17	1465028	Pin	2
18	292528	Capscrew	4
19	292683	Lockwasher	4
20	319322	Guard (RH)	1
21	319323	Guard (LH)	1
22	317292	Spacer	4
23	18520	Capscrew	3
24	18518	Capscrew	1
25	15155	Lockwasher	4
26	16541	Fitting	1
26	16484	O-Ring	1
27	16559	Fitting	1
27	16484	O-Ring	1
28	16448	Fitting	2
29	16989	Fitting	2
30	1478595	Hose	1
31	1478596	Hose	1

**INTEGRAL SIDE-SHIFT
TWO STAGE FULL-FREE-LIFT
E100-120XL3**

ITEM	PART NO.	DESCRIPTION	QTY
	1401686	Integral Side-Shift Assembly (48 in.) -8503026	1
1	1401706	Carriage (48 in.) (☞ Figure 10-21)	1
2	1511882	Load Roller	1
3	126765	Shim (0.020 in.)	6
4	1465072	Snap Ring	24
5	1399224	Spacer	6
6	1401745	Chain Anchor	2
7	339932	Pin	2
8	127727	Pin	2
9	15222	Cotter Pin	2
10	131358	Snap Ring	2
11	66333	Pin	2
12	1387993	Roller Bearing	2
13	16001	Lube Fitting	2
14	1465177	Bracket	2
15	192425	Shim (0.062 in.)	6
16	192424	Shim (0.030 in.)	8
17	1465028	Pin	2
18	292528	Capscrew	4
19	292683	Lockwasher	4
20	319322	Guard (RH)	1
21	319323	Guard (LH)	1
22	317292	Spacer	4
23	18520	Capscrew	3
24	18518	Capscrew	1
25	15155	Lockwasher	4
26	16541	Fitting	1
26	16484	O-Ring	1
27	16559	Fitting	1
27	16484	O-Ring	1
28	16448	Fitting	2
29	16989	Fitting	2
30	1478595	Hose	1
31	1478596	Hose	1

**HEADER HOSE
TWO STAGE FULL FREE-LIFT
(⇒ S/N PENDING PER ECN 73815)**

ITEM	PART NO.	DESCRIPTION	QTY
1	16458	Fitting.....	2
2	16448	Fitting.....	1
3	248212	Snap Ring.....	2
4	368173	Bracket.....	2
5	297647	Sheave.....	2
6	368172	Shaft	1
7	1360508	Clamp	2
8	129563	Strap Clamp.....	2
9	115696	Clamp	2
10	341308	Plate	1
11	351668	Screw.....	4
12	227220	Clamp	1
13	287851	Capscrew.....	4
14	313828	Nut	4
15	357583	Bracket.....	1
16	341324	Bracket.....	1
17	351369	Bracket.....	1
18	340054	Spacer	1
19	16466	Fitting.....	1
20	358295	Hose	1
21	389911	Hose	2
22	1461595	Tube	1
23	1461596	Tube	2
24	1461658	Hose	2
25	358281	Channel	1
26	1307611	Channel	1
27	273775	Strap Clamp.....	2
	ab 17321	Plug	AR
	ab 16925	Plug	AR

FOOTNOTES:

- a** Optional W/O attachment
b S/N PENDING PER ECN 73894 ⇒

NUMERICAL INDEX (Continued)

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	6-27	39		6-39	40		8-55	21		2-17	21
182118	1-21	22		6-43	11		8-57	25		2-19	21
182331	8-31	1		6-43	40		8-59	21	199917	6-49	10
182342	7-11	1		6-44	58		9-47	15	199926	2-3	17
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	8-5	14		6-31	29		9-53	15		2-11	17
182376	8-11	8		6-35	12		10-15	15	200084	5-7	2
	9-19	12		6-35	26		10-17	15	200141	5-8	40
182377	8-11	7		6-35	41		10-25	16	200145	5-7	32
	9-20	28		6-39	12		10-31	16	200146	5-7	32
183614	3-8	41		6-39	26		10-35	16	200147	5-7	30
183615	3-8	42		6-39	41		10-41	16	200148	5-7	31
183902	5-13	40		6-43	12	192425	7-37	11	200149	5-7	31
	5-17			6-43	26		8-55	21	200157	5-7	17
183904	5-13	42		6-43	41		8-57	24	200160A	5-7	38
184799	7-11	16	188518	6-31	32		8-59	21	201779	10-13	15
	8-15	10		6-35	15		9-47	15	201829	7-19	4
	9-15	10		6-36	44		9-51	24		7-25	4
185544	5-21	10		6-39	15		9-53	15		8-23	4
185856	4-13	22		6-39	44		10-15	14		8-27	6
185857	4-13	22		6-43	15		10-17	14	201972	5-17	1
185858	4-13	22		6-44	44		10-25	15	201974	5-17	8
185869	4-13	2		6-44	62		10-31	15	201975	5-17	9
185870	4-13	7	188519	6-31	15		10-35	15	201976	5-17	17
185872	4-13	7		6-31	30		10-41	15	201977	5-17	15
186227	4-11	7		6-35	13	192429	6-47	18	201978	5-17	7
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187388	7-19	16		6-35	42		6-51	1	201985	5-14	44
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