

## LS4-MH/A. (96752-001). LS6-MH/A (96752-004)

SEO	REF	DESCRIPTION	PART #	QTY	SEO
1	CAB	FRONT PANEL ASSY. (WIRED)	95360-001	1	1
2	CAB	FRONT PANEL (BARE)	97538-001	1	2
3	CAB	CON.BOX CABINET (BARE)	95360-001	1	3
4	CAB	CON.BOX COVER	92090-002	1	4
5	CAB	LEG-CONTROL PANEL RH	96414-001	1	5
6	CAB	LEG-CONTROL PANEL LH	96414-002	1	6
7					7
8	CAC	RECEPT NEMA 5-20R	50766-000	1	8
9	CAC	RECEPT NEMA L5-20R	56279-000	1	9
10	CAC	RECEPT NEMA L14-30R	97360-000	1	10
11	CAC	CIR.BRK.30A-2PL-240V	57030-002	1	11
12	CAC	CIR.BRK.20A-1PL (PSH BTN)	91286-001	3	12
13	CAC	CIR.BRK. 15A 1PL -W/LIGHT	94387-003	6	13
14					14
15	CDC	DC CAB WIRING HARNESS	97384-000	1	15
16	CDC	CIR.BRK. 15A 1PL (DCCB)	94387-002	1	16
17	CDC	GLOW PLUG INDICATOR	96577-002	1	17
18	CDC	ELAP.TIME MTR.4-40DC	58166-006	1	18
19	CDC	START SWITCH (S1)	72252-001	1	19
20	CDC	P.LT SWITCH-SPST 0-X (S3)	94388-402	1	20
21	CDC	L.TEST SW-SPST X-(0) (S4)	94388-404	1	21
22	CDC	LAMP SOCKET	94982-000	4	22
23	CDC	LAMP 14V	94983-000	8	23
24	CDC	LENS-OVERSPEED	94984-001	1	24
25	CDC	LENS-LOW OIL PRESS	94984-002	1	25
26	CDC	LENS-HIGH COOL TEMP	94984-007	1	26
27	CDC	LENS-SYSTEM NORMAL	94986-001	1	27
28	CDC	LAMP HOLDER	94987-000	2	28
29	CDC	LAMP 14V	94988-000	2	29
30	CDC	RUN RELAY-12VDC SPDT(CR1)	59944-002	1	30
31	CDC	GLOW SOLENOID 12VDC (GP1)	80980-000	1	31
32	CDC	VOLTMETER DC 8-16 (VM)	94395-000	1	32
33	CEC	OIL PRESURE GAUGE (OPG)	94396-000	1	33
34	CEC	COOLANT TEMP GAUGE (CTG)	94397-000	1	34
35	CEC	FUEL GAUGE (FG)	95648-000	1	35
36					36
37	CLC	CONNECTOR PIN	96924-001	72	37
38	CLC	MALE CONTACT ASSY	96924-002	2	38
39	CLC	RECEPTACLE CONNECTOR	96925-003	1	39
40	CLC	PERIPHERAL SEAL	96927-004	1	40
41	CLC	RECEPTACLE CONNECTOR	96925-002	2	41
42	CLC	PERIPHERAL SEAL	96927-001	12	42
43	CLC	PERIPHERAL SEAL	96927-003	2	43
44	CLC	SEALING CAP	96929-001	2	44
45					45
46					46
47	EAC	AIR FILTER	97275-001	1	47
48	EAC	AIR INLET HOOD	97277-002	1	48

## LS4-MH/A. (96752-001). LS6-MH/A (96752-004)

SEO	REF	DESCRIPTION	PART #	QTY	SEO
49	EAC	EL-90D MOLDED	97278-001	2	49
50	EAC	RESTRICTION GAUGE	97279-000	1	50
51	EAC	AIR INLET TUBE	97295-000	1	51
52					52
53	EBB	BATTERY 12V 610A	80765-001	1	53
54	EBB	BAT.CABLE ASY 1GA 43" (+)	53220-035	1	54
55	EBB	BAT.CABLE ASY 1GA 46" (-)	53220-041	1	55
56	EBB	VOLTAGE REG 12V	96577-005	1	56
57	EBB	BATTERY HOLD DOWN	75111-002	1	57
58	EBB	HARDWARE-BAT.HOLD	75112-000	2	58
59	EBB	BATTERY RACK WELDMENT	93569-001	1	59
60					60
61	EEX	RESIDENTIAL MUFFLER	96125-000	1	61
62	EEX	RAINCAP-ALUMINUM	97866-001	1	62
63	EEX	HIGH TEMP WOVEN TAPE	97274-000	5	63
64	EEX	EXHAUST PIPE WELD	97305-000	1	64
65					65
66	EFS	LINK FUEL SOLENOID	96637-001	1	66
67	EFS	YOKE END	97301-002	1	67
68	EFS	FUEL SOLENOID MOD.	97302-000	1	68
69	EFS	SOLENOID	95864-001	1	69
70	EFS	FUEL FILTER	97303-000	1	70
71	EFT	FUEL TANK 18 GAL	96963-700	1	71
72	EFT	FUEL FLOAT/SENDER	98433-001	1	72
73					73
74	EMG	OIL PRESSURE SWITCH	72254-002	1	74
75	ENG	ENG WIRING HARNESS	97334-003	1	75
76	ENG	DYNAMO-ASSY COUPLER	96577-004	1	76
77	ENG	WATER TEMP SW MODIF	72255-004	1	77
78	ENG	START SOLENOID 12VDC (SS)	80980-000	1	78
79	ENG	ENG-KUBOTA D950-BG	96577-001	1	79
80					80
81	ERS	RADIATOR	97343-000	1	81
82	ERC	RADIATOR CAP	92713-000	1	82
83	ERF	FAN SPACER	95854-001	1	83
84	ERH	RAD.HOS.-UPPER 1.25X1.25	92979-015	1	84
85	ERH	RAD.HOS.-LOWER 1.25X1.25	92979-016	1	85
86	ERS	FAN SHROUD	96791-000	1	86
87	ERS	BAFFLE-RADIATOR R.H.	96807-000	1	87
88	ERS	BAFFLE-RAD. L.H.	96808-000	1	88
89	ERS	BAFFLE-RAD.UPPER	96809-000	1	89
90	ERS	BAFFLE-RAD. LOWER	96810-000	1	90
91	ERS	FAN GUARD WELD	96863-000	1	91
92					92
93	ESC	ENGINE CONT PREWIRE	95689-000	1	93
94	ESC	ELC.STRT.ENG.CONTROL	72619-401	1	94
95	ESC	FUSE 1 AMP	95064-003	1	95
96	ESM	VIBRATION MOUNT	96603-000	4	96

LS4-MH/A. (96752-001), LS6-MH/A (96752-004)

SEO REF	DESCRIPTION	PART #	QTY	SEO
97				97
98				98
99	GEN : ADAPTER DRIVE DISK	91523-000	2	99
100	GEN : COVER (BELLY BAND)	91337-000	1	100
101	GEN : COVER - ROT. EXCITER	91411-001	1	101
102	GEN : RECTIFIER ASSY COMPL.	91413-000	1	102
103	GEN : SILICON RECT. BRIDGE	91452-001	2	103
104	GEN : SPACER #10-32 X 3/4	91454-001	3	104
105	GEN : SURGE SUPPRESSOR	91455-000	1	105
106	GEN : EXCITER ROTOR-WOUND	91442-000	1	106
107	GEN : MAIN ROTATING FIELD ASSY	91528-005	1	107
108	GEN : BEARING	91627-000	1	108
109	GEN : IMPELLER	94558-000	1	109
110	GEN : STATOR ASSY COMPLETE	92151-006	1	110
111	GEN : MACHINED END BRACKET	91517-001	1	111
112	GEN : STA AS + BAR/RING AS	91527-029	1	112
113	GEN : BAR & RING ASSY MACH	94561-000	1	113
114	GEN : EXCITER STATOR ASSY	91665-001	1	114
115	GEN : WELDED BOX ASSY	92145-000	1	115
116	GEN : FRONT COVER	92152-000	1	116
117	GEN : EXCITER BAR	93616-000	1	117
118	GEN : HHCS 7/16-14X1.5 GR5	93617-005	2	118
119	GEN : KEY 3/4 X 1/4	93622-000	1	119
120	GEN : TOP COVER - GEN BOX	97505-000	1	120
121	GFR : RECTIFIER	53976-000	1	121
122				122
123				123
124	HSG : RUBBER BUMPER (DOOR)	61660-000	5	124
125	HSG : PINTLE RING ADAPTER	91912-000	1	125
126	HSG : LATCH	95229-003	6	126
127	HSG : NAMEPLATE-DIESEL	95980-002	1	127
128	HSG : FRONT GRILL	96422-000	1	128
129	HSG : CORNER WELDMENT-LFT FRONT	97282-000	1	129
130	HSG : CORNER	96817-000	3	130
131	HSG : THRESHOLD	96818-000	2	131
132	HSG : ROOF, RIGHT SIDE	96819-000	1	132
133	HSG : ROOF, LEFT SIDE	96819-001	1	133
134	HSG : ROOF RECESS PANEL, MIDDLE	96822-000	1	134
135	HSG : DOOR	96820-000	2	135
136	HSG : HINGE 55.5X1.5	96821-000	2	136
137	HSG : REAR DOOR	96830-000	1	137
138	HSG : REAR LOWER PANEL	96831-000	1	138
139	HSG : SUPPORT CHANNEL	96832-000	4	139
140	HSG : HINGE 23.75X1.5	96833-000	1	140
141	HSG : FUEL DOOR WELDMENT	97281-000	1	141
142				142
143	HSG : COMPARTMENT LITE 12V	97359-000	1	143
144	HSG : LICENSE LITE W/BRKT	95709-000	1	144

LS4-MH/A. (96752-001). LS6-MH/A (96752-004)

SEO	REF	DESCRIPTION	PART #	QTY	SEO
145	HSG	STOP & TURN LIGHT	95710-000	2	145
146	HSG	SEALED LAMP-AMBER	97339-001	2	146
147	HSG	SEALED LAMP-RED	97339-002	2	147
148					148
149	HTJ	JACK 2000 LB.	93180-000	4	149
150	HTJ	ARM WELDMENT	96976-000	3	150
151	HTJ	ARM WELDMENT -LEFT REAR	97244-000	1	151
152	HTR	TRAILER SHELL WELD	96427-000	1	152
153	HTR	COUPLER WELDMENT	98534-000	1	153
154	HTR	HITCH WELDMENT	96398-000	1	154
155	HTR	TIRE & RIM ASSY	92477-000	2	155
156	HTR	LEAF SPRING KIT	95576-000	1	156
157	HTR	AXLE ASSY	96411-001	1	157
158	HTR	WSH-TRAILER HITCH MT	96413-000	2	158
159	HTR	JACK WELDMENT	97768-001	1	159
160	HTR	BUMPER	96466-000	1	160
161	HTR	DOOR - WINCH ACCESS	96471-000	1	161
162	HTR	REAR JACK/BMPR SUPPORT	97241-000	1	162
163	HTR	LOWER ACCESS COVER-GEN	97307-000	1	163
164					164
165					165
166	LHB	LAMP BALLAST ASSY	96967-001	6	166
167	LHB	LAMP -240V GREEN	57991-002	6	167
168	LHB	DECAL. HIGH VOLTAGE	91498-000	6	168
169	LHB	SIDE-LEFT	96721-000	6	169
170	LHB	SIDE-RIGHT	96722-000	6	170
171	LHB	COVER	96723-000	6	171
172	LHB	DIVIDER	96724-000	6	172
173	LHB	CORD SET-BALLAST	96937-003	6	173
174	LHB	PLUG,CONNECTOR	96926-001	12	174
175	LHB	LAMP BALLAST-MH	96946-000	6	175
176	LHB	DECAL 'H'	96972-017	6	176
177	LHB	DECAL 'M'	96972-022	6	177
178					178
179	LHL	HID FIXTURE-COMplete	96944-001	6	179
180	LHL	CORD SET-HID FIXTURE	96937-401	6	180
181	LHL	LAMP FIXT. HID RAW	96938-701	6	181
182	LHL	LAMP SUPPORT	96940-000	6	182
183	LHL	LAMP-M.HALIDE 1000W	96941-001	6	183
184		<i>Recap Kit</i>	<i>98537-1</i>		184
185	LTC	RECEPTACLE CONNECTOR	96925-001	12	185
186	LTC	SEALING CAP	96929-001	2	186
187	LTC	TERMINAL BOX ASSY	96930-002	1	187
188	LTC	DANGER LABEL-TERM BX	97378-000	1	188
189	LTC	RETRACTABLE CORD 25'	96913-000	1	189
190	LTC	PLUG,CONNECTOR	96926-002	2	190
191	LTC	ADAPTER,STRAINRELIEF	96932-002	3	191
192	LTC	CUSH.WIRE/TUBE CLAMP	97391-001	1	192

LS4-MH/A. (96752-001). LS6-MH/A (96752-004)

SEO	REF	DESCRIPTION	PART #	QTY	SEO
193	LTC	CUSH.WIRE/TUBE CLAMP	97391-002	4	193
194					194
195					195
196	SAF	GROUND ROD KIT	97394-000	1	196
197	SAF	GROUND ROD 1/2	97389-000	1	197
198	SAF	GROUND ROD CLAMP 1/2	97393-000	1	198
199					199
200					200
201	TFS	RISER BAR	96463-000	2	201
202	TFS	SPREADER BAR	96465-000	1	202
203	TR1	LATCH - WINCH DOOR	95229-003	1	203
204	TR5	TOWER MOUNTING PLATE	96521-000	1	204
205	TR5	CLEVIS PIN 1X8	96524-000	1	205
206	TW1	TOWER ASSY	96928-000	1	206
207	TW1	THRUST BEARING	95929-000	1	207
208					208
209	TW2	TOWER COMPLETE 2IN	96668-000	1	209
210	TW2	PIN 1/2X2-1/2 (PULLEY)	96793-002	1	210
211	TW2	PLY CLEVIS PIN 1/2X1-1/4	96857-001	6	211
212	TW2	PULLEY ASSY- 2.25" O.D.	96935-000	5	212
213	TW2	ROLLER - 1-5/8D X 1	97354-001	2	213
214	TW2	ROLLER - 1-5/8D X 2	97354-002	2	214
215	TW2	CLEVIS PIN 1/2X2-1/4 RLR	97356-001	1	215
216	TW2	CLEVIS PIN 1/2X3-1/4 RLR	97356-002	1	216
217					217
218	TW3	TOWER COMPLETE 3IN	96622-000	1	218
219	TW3	PIN 1/2X3-1/2 (PULLEY)	96793-003	1	219
220	TW3	CABLE ASSY 3/16	96839-000	1	220
221					221
222	TW4	TOWER COMPLETE 4IN	96619-000	1	222
223	TW4	LATCH ASSY- EXTEND	96677-001	1	223
224	TW4	CABLE TRAY-TOWER	96690-000	1	224
225	TW4	CABLE ASSY 1/4	96838-001	1	225
226					226
227	TW5	HOUSING WELDMENT-TOW	96673-000	1	227
228	TW5	LATCH ASSY- TILT	96677-000	1	228
229	TW5	'L' SCREW / HANDLE	96676-000	1	229
230	TW5	PULLEY ASSY	96541-000	1	230
231	TW5	TWR PIVOT LOCK BAR WELD	96693-000	1	231
232	TW5	WINCH-COMplete	96804-000	1	232
233	TW5	CLEVIS PIN 1/2X2-5/8 PLY	96857-004	1	233
234	TW5	CRANK ASSY	96898-000	1	234
235	TW5	BUMPER - TOWER	96959-000	1	235
236					236
237	TWC	CRADLE ASSY-TOWER	96908-000	1	237
238	TWC	RUBBER FEET	20191-000	2	238
239	TWC	TOWER SUPPORT WELD	96799-000	1	239
240	TWC	CLEVIS PIN WELD	96802-000	1	240

## LS4-MH/A. (96752-001). LS6-MH/A (96752-004)

SEO REF	DESCRIPTION	PART #	QTY	SEO
241	TWC !OUICK PIN 1/4X1-3/8	96901-000	1	241
242				242
243				243
244				244
245	XREF!CONTROL BOX ASSY	97330-001	1	245
246	XREF!CONT.PANEL & AC WIRING	97362-001	1	246
247	XREF!DC WIRING&HARN.TERM.	97383-001	1	247
248	XREF!NAME PLATE BLANK	80638-000	1	248
249	XREF!NAME PLATE BLANK	80638-000	1	249
250	XREF!OPERATORS MANUAL. ENGINE	96577-003	1	250
251	XREF!OPR.MANUAL-LS4/6-MH UNIT	60706-061	1	251
252	XREF!TRAILER ASSEMBLED	97333-001	1	252
253				253
254	XREF!BAG/BOLTS LS4/6	97538-002	1	254
255	XREF!CERT OF ORIGIN-LS4/6	98372-008	1	255
256	XREF!COMP GEN PARTS	92383-006	1	256
257	XREF!CONTROL CAB. WIRED	97385-001	1	257
258	XREF!CORD MODIFICATION	97390-001	1	258
259				259
260	XREF!DECAL. CAUTION-TOWER	97377-000	1	260
261	XREF!DECAL. CAUTION-WINCH	97376-001	1	261
262	XREF!DECAL. CAUTION-WINCH	97376-002	1	262
263	XREF!DECAL. DANGER (TERM BOX)	97378-000	1	263
264	XREF!DECAL. DANGER-TOWER	97380-000	1	264
265	XREF!DECAL. DIESEL FUEL	97381-000	1	265
266	XREF!DECAL. INSTRUCT -LS4/6-MH	98415-000	1	266
267	XREF!DECAL. LS4/6-MH	98413-002	2	267
268	XREF!DECAL. MAINTENANCE SCHED	97344-000	1	268
269	XREF!DECAL. OPERATING INST	97338-000	1	269
270	XREF!DECAL. RATING 7KVA	97994-001	2	270
271	XREF!DECAL. TWR.OPER.INSTR	97375-000	1	271
272	XREF!DECAL. WARNING	97382-000	1	272
273	XREF!DECAL. WARNING-JACK	97379-000	4	273
274	XREF!DECAL. WARNING-TOWER	98063-000	1	274
275	XREF!DECAL. WINCO LOGO - 6" hi	98313-000	2	275
276	XREF!DECAL. WINCO LOGO - 7" hi	97993-001	2	276
277	XREF!TAG. WARNING	97541-000	1	277
278				278
279	XREF!ENG. GENERATOR ASSY	97342-000	1	279
280	XREF!FOAM KIT	97884-000	1	280
281	XREF!FUEL SOLNOID/FLT KIT	97300-001	1	281
282	XREF!MUFFLER ASSY	97479-000	1	282
283				283
284	XREF!TAPE. STRIPPING 6" X 13ft	98444-000	#	284
285	XREF!TAPE. STRIPPING 7" X 8ft	97995-001	#	285
286	XREF!TAPE. YL/BLK WARN - X 7ft	97508-000	#	286
287				287
288	XREF!WIRE/CONNECT DIAGRAM	97519-000	1	288

LS4-MH/A. (96752-001), LS6-MH/A (96752-004)

SEO REF :	DESCRIPTION	PART #	!QTY	!SEO
-----------	-------------	--------	------	------

UNIT MODEL SERIES	LS4/6-MH/A			
-------------------	------------	--	--	--

AC RESIDUAL VOLTS	35 VAC L-L			
12 VDC SEP. EX.	200 VAC L-L			

EXCITER FIELD RESIST.	2.6 OHMS			
EXCITER ARM PER PHASE	0.35 OHMS			
MAIN FIELD RESISTANCE	2.6 OHMS			
MAIN STATOR PER COIL	0.28 OHMS			
WINDING SPEC (SS#)	1362			
ARM CONNECTION (AC#)	347			

AC GENERATOR WIRING	97392-001			
AC CONTROL PANEL WIRING	97362-001			
AC BALLAST WIRING	96967-001			
AC TOWER WIRING-MH	97373-001			

ENGINE CONTROL WIRING	97422-000			
DC CONTROL PANEL WIRING	97383-001			

AC SCHEMATIC COMPLETE	97392-001			
-----------------------	-----------	--	--	--

# TOWER CABLE CHANGE PROCEDURES

## TOWER REMOVAL

1. Turn off engine.
2. Disconnect and remove lamps.
3. Unspool the cable from the winch and disconnect from the winch.
4. Disconnect power cable. Remove tower from trailer.
5. Lay the tower on a flat surface. You will need about 30 feet of working space.

## TOWER DISASSEMBLY

1. Remove pin "A" to disconnect the third stage lift cable.
2. Extend the second stage of the tower out of the first stage to the stop. The third stage does not extend.
3. Remove the tower stop, ref. "B".
4. Remove the tower support roller ref. "C".
5. Drill out the six pop rivets and remove the three nylon pads at the top of the first stage, (ref. "D"). These pads will not be reused. New pads have been provided.
6. Remove the pulley (ref. "K") at the top of the first stage.
7. Separated the first and second stages.
8. Remove the pulley (ref. "E") at the bottom of the cannon assembly.
9. Remove the lock nut (ref. "F") at the bottom the cannon assembly. Slide the first stage out of the cannon assembly. Be sure to keep track of the bearing (ref. "G").
10. Pull the cable out of the cannon assembly and remove both of the pulleys (ref. "H" & "J") at the bottom of the first stage.
14. Remove the pin (ref. "L") that is retaining the other end of the cable in the lower end of the second stage. Pull the cable out lower end of the second stage.

## REASSEMBLY - NEW CABLE/PULLEY INSTALLATION

You will now start the installation procedure of the new heavier cable.

1. Unroll the cable and be sure there are no kinks or twists in it. The new cable has a loop at one end. You will be treading the bare end of the cable. It is a good idea to wrap the open (bare) cable end with a couple of

turns of electricians tape to keep it from unwinding.

2. Tread the new cable in reverse order, running the open end of the cable up through the open bottom of the second stage, through the slot to the location of pulley ref. "K".

3. Reinstall the pin through the loop, in the end of the cable, (ref. "L") in the lower end of the second stage.

4. Slide the second stage back into the first stage. Install one of the new pulleys on the top end of the first stage, (ref. "K").

5. Install the three new nylon pads (ref. "D") using the six self tapping screws provided in the kit.

6. Replace the tower support roller (ref. "C").

7. Replace the tower stop (ref. "B").

8. Thread the new cable through the hollow bolt at the bottom of the lower tower section. Be sure the bearing (ref. "G") is in place before the cable is threaded through.

9. Install two of the new pulleys at the bottom end of the lower section (ref. "H" & "J"). Be sure the cable is routed over ref. "H" and under ref. "J".

10. Thread the cable through the hole in the bottom of the cannon assembly. Reinstall the lower tower section into the cannon assembly, securing with the locking nut (ref "F").

11. Install the last of the new pulleys on the bottom end of the cannon assembly (ref. "E").

12. Slide the center and upper tower sections back into the lower section making sure the cable slides through the pulleys easily. Make sure that the tower sections have relocked in the collapsed position by trying to pull the first stage back out. The tower lock (ref. "M") must be fully engaged and free to lock on it's own. If the tower slides back apart the tower lock has not engaged. Check the lock for proper operation before continuing.

13. Reinstall pin "A" through the third stage lift cable.

14. Replace the tower on the trailer and reconnect the power cable.

15. Connect the bare end of the cable to the winch and spool up the excess cable. CAUTION: BE SURE TO WIND CABLE UP IN THE PROPER DIRECTION.

29. Lift the tower up and check for proper operation.

If you have any problems or something unexpected comes up, please contact the Energx Service Department at 1-800-433-8123 for a prompt evaluation and recommendation.

