Illustrated Parts Manual

Models
400S
460SJ

Prior to
SN 0300096000

P/N
3120896

July 17, 2018 - Rev AL

CE

An Oshkosh Corporation Company

REVISION LOG

Notes:

Most 400S and 460SJ machines from SN 0300064404 to Present incorporate the ADE System, but no exact SN break exists. A machine that incorporates the ADE System can be outwardly identified by the analyzer connection at the base of the platform console box.

ADE SYSTEM IDENTIFICATION



Revision Log:

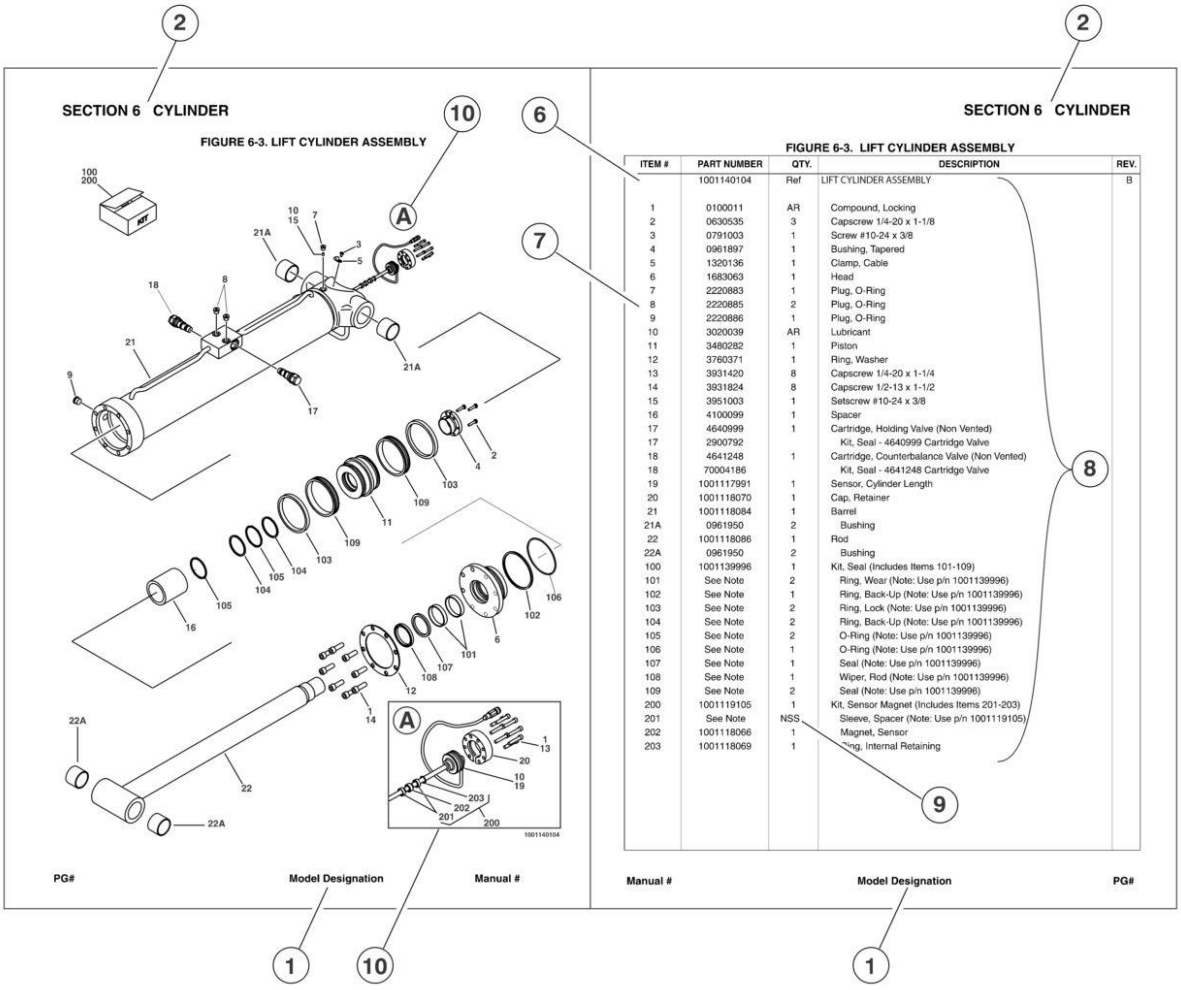
March 15, 2000 - A-Original Issue Of Manual (Edited to B/M 0010561 Revision 1)
July 1, 2000 - B - Revised Manual (Revised to B/M 0010561 Revision 2)
January 31, 2001 - C - Revised Manual (Revised to B/M 0010561 Revision 11)
October 16, 2001 - D - Revised (Manual Edited to B/M 0010561 Revision 23)
(Manual Revised to B/M 0010579 Revision 7 With ADE System)
September 30, 2002 - E - Revised (Manual Edited to B/M 0010579 Revision 23 With ADE System)
June 30, 2003 - F - Revised (Manual Edited to B/M 0010579 Revision 33 With ADE System)
September 15, 2003 - G - Revised (Manual Edited to B/M 0010579 Revision 43 With ADE System)
February 6, 2004 - H - Revised (Manual Edited to B/M 0010579 Revision 43 With ADE System)

REVISION LOG

Revision Log (Continued):

August 1, 2004 - I - Revised (Manual edited to B/M 0010579 Revison 51 With ADE system)
December 15, 2004 - J - Revised (Manual edited to B/M 0010579 Revison 52 With ADE syst
April 30, 2005 - K - Revised (Manual edited to B/M 0010579 Revison 58 With ADE system)
October 13, 2005 - L - Revised (Manual edited to B/M 0010579 Revison 64 With ADE syster
April 30, 2006 - M - Revised (Manual edited to B/M 0010579 Revison 67 With ADE system)
September 12, 2006 - N - Revised
January 3, 2007 - O - Revised
April 2, 2007 - P - Revised
August 31, 2007 - Q - Revised
January 11, 2008 - R - Revised
July 15, 2008 - S - Revised
March 1, 2009 - T - Revised
October 2, 2009 - U - Revised
July 21, 2010 - V - Revised
January 27, 2011 - W - Revised
May 16, 2011 - X - Revised
August 12, 2011 - Y - Revised
December 8, 2011 - Z - Revised
March 30, 2012 - AA - Revised
July 19, 2012 - AB - Revised
October 19, 2012- AC - Revised
February 28, 2013 - AD - Revised
May 13, 2013 - AE - Revised
August 21, 2013 - AF - Revised
November 27, 2013 - AG - Revised
June 1, 2015 - AH - Revised
November 20, 2015 - AI - Revised
July 15, 2016 - AJ - Revised
June 30, 2017 - AK - Revised
July 17, 2018 - AL - Revised

GENERAL INFORMATION



1) MACHINE IDENTIFICATION
Machines are identified by model and in some cases a combination of models, serial number (SN) or regional standard (i.e ANSI, CE,CSA). Components may also be identified by SN or manufacturer. common components that may be identified by these characteristics are engines and hydraulic components.

2) PARTS MANUAL ORGANIZATION
Product information in this manual is organized under section titles. Frame, Cylinder, Hydraulic and Electrical are a few examples. Each section is organized by figure and page number. The information within the Figure is then organized by item number, part number, description and corresponding illustration (s).

3) TABLE OF CONTENTS
A table of contents is found toward the beginning of the manual. Figure number, description and page number are provided for quick reference to the page containing the related information.

4) RECOMMENDED SPARE PARTS
The Recommended Spare Parts, located near the end of the manual, referance most frequently used maintenance parts.

5) PART NUMBER INDEX
A numerical index listing all part numbers and the corresponding page number(s) appears at the back of the manual.

GENERAL INFORMATION

6) NON-SERVICED PARTS
In some instances, it is necessary to display non-serviced parts, assemblies or installations. In the case of assemblies and installations there will be a Ref in the Qty column. In case of parts that are not available for service within assemblies or components, there will be a NSS (Not Sold Separately) or NLA (No Longer Available) listed in the Qty. column of the manual.

7) PARTS LIST ITEM NUMBERS
Numbers shown in the item# column correspond to numbers used in the associated illustration (s). Item numbers which are missing from the sequence in the parts list are not used on that page

8) INDENTED PARTS DESCRIPTION
An indented part description is included in the item under which it is indented.

9) ABB REVIATION AND SYMBOLS

AC ..... Alternating Current
ADE. ..... Advanced Design Electronics
ANSI ..... American National Standards Institute
AR.. ..... As Required
ASSY ..... Assembly
AUX... ..... Auxiliary
AWG ..... American Wire Gauge
B/M.. ..... Bill of Material
CE.. ..... European Conformity
CCW ..... Counter Clockwise
cm. ..... Centimeter
CW ..... Clockwise
CSA. ..... Canadian Standards Association
CYL... ..... Cylinder
DIA. ..... Diameter
DC ..... Direct Current
EMS ..... Emergency Stop
ENG ..... Engine
FT(ft).. ..... Feet
GA(Ga).. ..... Gauge
HYD ..... Hydraulic
Hz.. ..... Hertz
ID.. ..... Inside Diameter
in... ..... inches
ISO ..... International Organization for Standards
JIC ..... Joint Industry Council
KG ..... Kilogram
L.. ..... Liter
LB ..... Pounds
LCD ..... Liquid Crystal Display
LED ..... Light Emitting Diodes
LH... ..... Left Hand
LSS ..... Load Sensing System
M(m)... ..... Metric/Meter
MM (mm) ..... Milimeter
mA. ..... Miliamps
NLA..... No Longer Available
NPT ..... National Pipe Threads
NSS ..... Not Sold Separately
OD.. ..... Outside Diameter
ORB ..... O-Ring Boss
ORFS ..... O-Ring Face Seal
OZ (oz). ..... Ounces
PG ..... Page
P/N. ..... Part Number
qt. ..... Quarts
QTY. ..... Quantity
REF ..... Reference
REV ..... Revision Level
RH... ..... Right Hand
SAE..... Society of Automotive Engineers
SN.. ..... Serial Number
SPEC(S)..... Specifications
T/T. ..... Turntable
UGM ..... Universal Ground Module
V. ..... Volts
W... ..... Watts
#... ..... Number

10) ILLUSTRATION REFERANCE LETTERS
When necessary, illustrations may contain referance letters that are intended to track information (i. e. hoses, harnesses) from one point to another or to track visual enlargement of components to show details that may be located in another area on the illustration.

Note: Due to continuous product improvements, JLG Industries, Inc. reserves the right to make specification changes without prior notification. Contact JLG Industries, Inc. for updated information.

TABLE OF CONTENTS

SECTION 1 - FRAME 9

FIGURE 1-1. AXLE AND STEERING INSTALLATION - 2WD WITHOUT TOW PACKAGE 10
FIGURE 1-2. AXLE AND STEERING INSTALLATION - 2WD WITH TOW PACKAGE 14
FIGURE 1-3. AXLE AND STEERING INSTALLATION - 4WD 18
FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATIONS 24
FIGURE 1-5. DRIVE HUB ASSEMBLY (4WD FRONT) (Prior to SN 0300076633) 28
FIGURE 1-6. DRIVE HUB/BRAKE ASSEMBLY (REAR) (Prior to SN 0300076633) 30
FIGURE 1-7. DRIVE HUB AND HUB WITH BRAKE ASSEMBLIES (SN 0300076633 through 0300096000) 34
FIGURE 1-8. DRIVE MOTOR ASSEMBLY (ORIGINAL EQUIPMENT - 4 BOLT ASSEMBLY) 38
FIGURE 1-9. DRIVE MOTOR ASSEMBLY (FIELD SERVICE REPLACEMENT - 5 BOLT ASSEMBLY) 42
FIGURE 1-10. FRAME VALVES AND SHIELDS INSTALLATION 46
FIGURE 1-11. SEMI-TRACK INSTALLATION 50
FIGURE 1-12. TOW PACKAGE INSTALLATION 54

SECTION 2 - TURNTABLE 57

FIGURE 2-1. VALVES AND TILT INDICATOR INSTALLATIONS 58
FIGURE 2-2. MAIN CONTROL VALVE ASSEMBLY 62
FIGURE 2-3. ARTICULATING JIB VALVE ASSEMBLY 66
FIGURE 2-4. TURNTABLE AND SWING DRIVE INSTALLATIONS 68
FIGURE 2-5. SWING BRAKE ASSEMBLY 72
FIGURE 2-6. SWING HUB ASSEMBLY 74
FIGURE 2-7. SWING MOTOR ASSEMBLY 76
FIGURE 2-8. CATERPILLAR ENGINE INSTALLATION 78
FIGURE 2-9. DEUTZ ENGINE INSTALLATION (Prior to SN 0300077682) 86
FIGURE 2-10. DEUTZ ENGINE INSTALLATION (SN 0300077682 through 0300096000) 92
FIGURE 2-11. PISTON PUMP ASSEMBLY 100
FIGURE 2-12. GEAR PUMP ASSEMBLY 104
FIGURE 2-13. AUXILIARY PUMP ASSEMBLY 106
FIGURE 2-14. TANK INSTALLATIONS 110
FIGURE 2-15. GROUND CONTROL BOX ASSEMBLY WITHOUT ADE SYSTEM 114
FIGURE 2-16. GROUND CONTROL BOX ASSEMBLY WITH ADE SYSTEM 118
FIGURE 2-17. ELECTRICAL OPTIONS INSTALLATION (TURNTABLE MOUNTED) 122
FIGURE 2-18. HOODS INSTALLATION 126
FIGURE 2-19. GENERATOR INSTALLATION - CATERPILLAR MACHINES (OPTIONAL) 130
FIGURE 2-20. GENERATOR INSTALLATION - DEUTZ MACHINES (OPTIONAL) 132
FIGURE 2-21. 7500W SKYPOWER GENERATOR INSTALLATION - CATERPILLAR AND DEUTZ ENGINES 136

SECTION 3 - BOOM 141

FIGURE 3-1. BOOM INSTALLATIONS 142
FIGURE 3-2. BOOM ASSEMBLY - 400S 146
FIGURE 3-3. BOOM ASSEMBLY - 460SJ 150
FIGURE 3-4. ROTATOR ASSEMBLIES 154
FIGURE 3-5. PLATFORM SUPPORT INSTALLATION - WITH LSS 158

SECTION 4 - PLATFORM 161

FIGURE 4-1. PLATFORM INSTALLATION (FRONT ENTRY PLATFORM) 162
FIGURE 4-2. PLATFORM INSTALLATION - SIDE ENTRY PLATFORM 166
FIGURE 4-3. SOFT TOUCH INSTALLATION (FRONT ENTRY PLATFORM) (OPTIONAL) 170
FIGURE 4-4. SOFT TOUCH INSTALLATION (SIDE ENTRY PLATFORM) (OPTIONAL) 172
FIGURE 4-5. PLATFORM CONSOLE ASSEMBLY WITHOUT ADE SYSTEM 174
FIGURE 4-6. PLATFORM CONSOLE ASSEMBLY WITH ADE SYSTEM 180
FIGURE 4-7. CONTROLLER ASSEMBLY (SWING AND LIFT) (WITHOUT ADE SYSTEM) 184
FIGURE 4-8. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM) 186
FIGURE 4-9. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM) 188
FIGURE 4-10. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM) 190
FIGURE 4-11. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITHOUT ADE SYSTEM) 194
FIGURE 4-12. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM) 196
FIGURE 4-13. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM) 198
FIGURE 4-14. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM) 200
FIGURE 4-15. SKYCUTTER INSTALLATION 202
FIGURE 4-16. PLASMA CUTTER ASSEMBLY 204
FIGURE 4-17. SKYWELDER INSTALLATION (Prior to SN 0300068333) 206

TABLE OF CONTENTS

FIGURE 4-18. SKYWELDER INSTALLATION (50HZ) (SN 0300068333 through 0300096000) 212
FIGURE 4-19. WELDER ASSEMBLY 214
FIGURE 4-20. PIPE RACKS INSTALLATION 216

SECTION 5 - CYLINDER 219

FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLY 220
FIGURE 5-2. LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY 222
FIGURE 5-3. LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY (400S - SERVICE REPLACEMENT CYLINDER) 224
FIGURE 5-4. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (ORIGINAL EQUIPMENT) 226
FIGURE 5-5. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (USAGE MAY VARY) (SERVICE REPLACEMENT) 228
FIGURE 5-6. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (USAGE MAY VARY) (SERVICE REPLACEMENT) 230
FIGURE 5-7. LIFT CYLINDER ASSEMBLY - MAIN 232
FIGURE 5-8. MASTER CYLINDER ASSEMBLY (ORIGINAL EQUIPMENT) 234
FIGURE 5-9. MASTER CYLINDER ASSEMBLY (SERVICE REPLACEMENT) 236
FIGURE 5-10. STEER CYLINDER ASSEMBLY (ORIGINAL EQUIPMENT) (Prior to SN 0300087392) 238
FIGURE 5-11. STEER CYLINDER ASSEMBLY (SERVICE REPLACEMENT AND ORIGINAL EQUIPMENT) (Prior to SN 0300087392, SN 0300087392 through 0300096000) 240
FIGURE 5-12. TELESCOPE CYLINDER ASSEMBLY 242

SECTION 6 - HYDRAULIC 245

FIGURE 6-1. AXLE LOCKOUT HYDRAULIC DIAGRAM 246
FIGURE 6-2. DRIVE HYDRAULIC DIAGRAM - 2WD 248
FIGURE 6-3. DRIVE HYDRAULIC DIAGRAM - 4WD 250
FIGURE 6-4. STANDARD HYDRAULIC DIAGRAM 254
FIGURE 6-5. HYDRAULIC DIAGRAM LIST 258

SECTION 7 - ELECTRICAL 259

FIGURE 7-1. ELECTRICAL DIAGRAM LIST 260
FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (WITHOUT ADE SYSTEM) 262
FIGURE 7-3. HARNESS COMPONENTS INSTALLATION (WITH ADE SYSTEM) 270

SECTION 8 - DECALS 281

FIGURE 8-1. DECAL INSTALLATION (Prior to SN 0300085617) 282
FIGURE 8-2. DECAL INSTALLATION (SN 0300085617 through 0300095670) 288
FIGURE 8-3. DECAL INSTALLATION (SN 0300095671 through 0300096000) 292

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK 295

FIGURE 9-1. MODEL 400S/460SJ STANDARD PARTS 296
FIGURE 9-2. MODEL 400S/460SJ VARIABLE PARTS 298

SECTION 10 - SPECIAL OPTIONS 299

FIGURE 10-1. SPECIAL OPTIONS LIST 300

PART NUMBER INDEX 305

SECTION 1 - FRAME

FIGURE 1-1. AXLE AND STEERING INSTALLATION - 2WD WITHOUT TOW PACKAGE

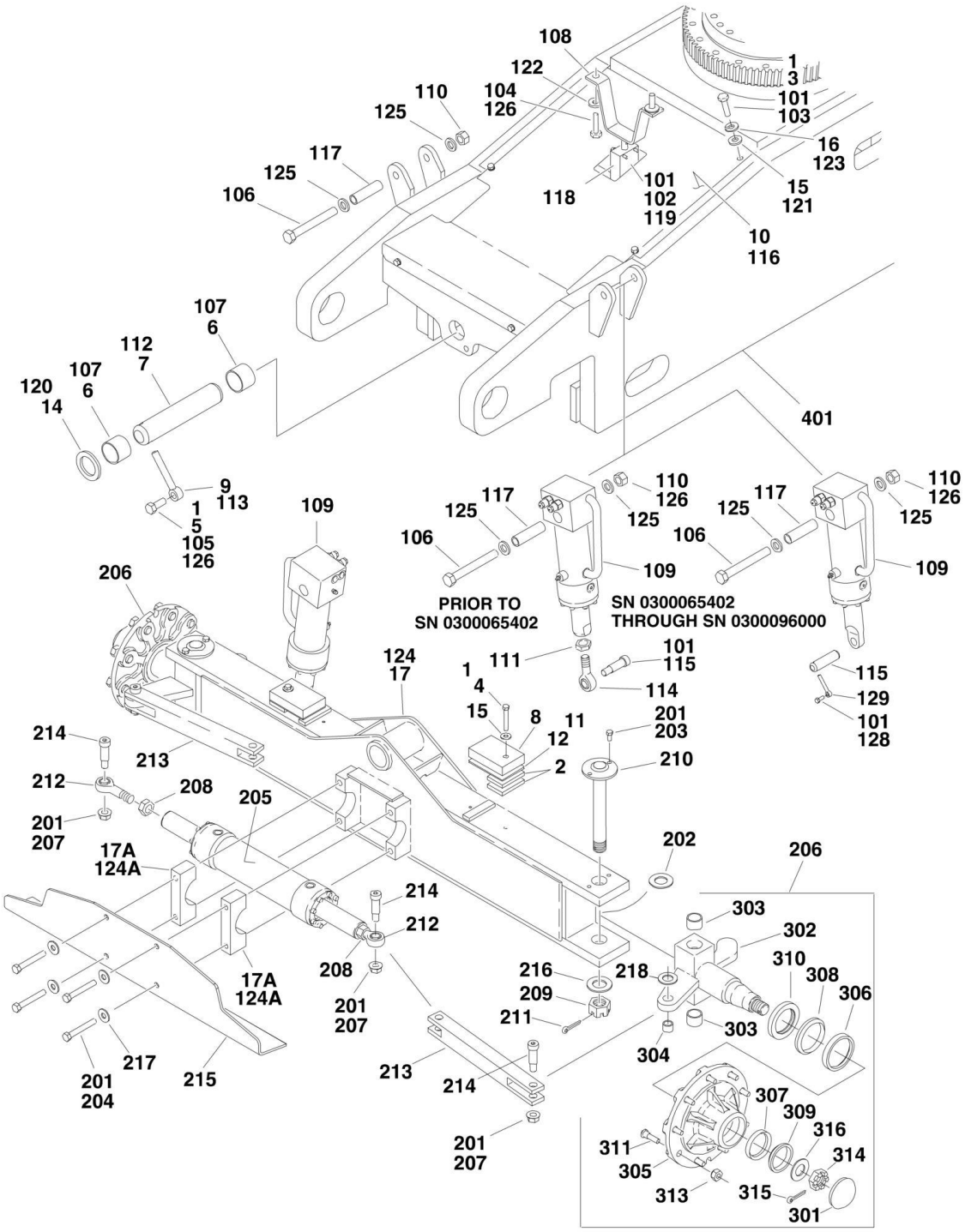


FIGURE 1-1. AXLE AND STEERING INSTALLATION - 2WD WITHOUT TOW PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**FIXED AXLE INSTALLATION OPTIONS:**	
	0259152	Ref	**All Machines (Prior to SN 0300067471)**	C
	0272274	Ref	**Fixed Axle Installation (SN 0300067471 through 0300072505)**	A
	0272902	Ref	**Fixed Axle Installation (SN 0300072506 through 0300096000)**	A
1	0100011	AR	Compound, Locking	
2	0362932	2	Bar, Stop	
3	0641607	4	Bolt 3/8in-16NC x 7/8in	
4	0641626	2	Bolt 3/8in-16NC x 3-1/4in	
5	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
6	0961950	2	Bushing	
7	3422592	1	Pin, Axle Pivot	
8	0362954	2	Plate, Stop	
9	3841258	1	Keeper, Pin	
10		Ref	Shield, Frame Options:	
10	4060978	1	Shield, Frame **(Prior to SN 0300072506)**	
10	3574254	1	Shield, Frame **(SN 0300072506 through 0300096000)**	
11	4071002	AR	Shim, 20-Gauge	
12	4070973	AR	Shim 1/8in	
14	4740158	1	Thrustwasher	
15	4751600	6	Flatwasher 3/8in Regular	
16	4761600	4	Lockwasher 3/8in	
17		Ref	Axle Weldment Options:	
17	4846072	1	Axle Weldment **(Prior to SN 0300067471)**	
17	4846551	1	Axle Weldment **(SN 0300067471 through 0300096000)**	
17A	0561300	2	Steer Cylinder Mounting Block Assembly	
		Ref	**OSCILLATING AXLE INSTALLATION OPTIONS:**	
	0259150	Ref	**Australian Spec (Prior to SN 0300065402)**	E
	0271977	Ref	**Australian Spec (SN 0300065402 through 0300072505)**	A
	0272900	Ref	**Australian Spec (SN 0300072506 through 0300096000)**	A
	0270715	Ref	**CE Spec (Prior to SN 0300065402)**	A
	0271979	Ref	**CE Spec (SN 0300065402 through 0300072505)**	B
	0272904	Ref	**CE Spec (SN 0300072506 through 0300096000)**	A
101	0100011	AR	Compound, Locking	
102		Ref	Bolt Options:	
102	0641414	4	Bolt 1/4in-20NC x 1-3/4in (Australian Spec)	
102	0641424	4	Bolt 1/4in-20NC x 3in (CE Spec)	
103	0641607	4	Bolt 3/8in-16NC x 7/8in	
104	0642010	2	Bolt 5/8in-11NC x 1-1/4in	
105	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
106	0682248	2	Bolt 3/4in-10NC x 6in (Grade 8)	
107	0961950	2	Bushing	
108		Ref	Cam, Lockout Options:	
108	1100118	1	Australian Spec	
108	1100123	1	CE Spec	
109		Ref	Lockout Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
109	1683575	NLA	Lockout Cylinder Assembly (Use p/n 1684139) **(Prior to SN 0300065402)**	
109	1684139	2	Lockout Cylinder Assembly **(SN 0300065402 through 0300096000)**	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
110	3272201	2	Nut 3/4in-10NC	
111	3322201	2	Nut 3/4in-16NF **(Prior to SN 0300065402)**	
112	3422592	1	Pin, Axle Pivot	
113	3841258	1	Keeper, Pin	
114	3841367	2	Rod-End with Grease Fitting **(Prior to SN 0300065402)**	
114	7020180	1	Grease Fitting	
115		Ref	Hardware Options:	
115	3900109	2	Screw, Shoulder **(Prior to SN 0300065402)**	
115	3422936	2	Pin **(SN 0300065402 through 0300096000)**	
116		Ref	Shield, Frame Options:	
116	4060978	1	Shield, Frame **(Prior to SN 0300072506)**	
116	3574254	1	Shield, Frame **(SN 0300072506 through 0300096000)**	
117	4567462	2	Tube, Mounting	
118	4640871	AR	Lockout Valve Assembly	
118		Ref	Australian Spec	
118		Ref	CE Spec	
118	7012693	AR	Seal Kit - 4640871 Valve	
118	7002840	1	Anti-Rotation Pin Removal Tool	
119	4711400	4	Flatwasher 1/4in Thin	
120	4740158	1	Thrustwasher	
121	4751600	4	Flatwasher 3/8in Regular	
122	4752000	4	Flatwasher 5/8in Regular	
123	4761600	2	Lockwasher 3/8in	
124		Ref	Axle Weldment Options:	
124	4846072	1	Axle Weldment **(Prior to SN 0300065402)**	
124	4846551	1	Axle Weldment **(SN 0300065402 through 0300096000)**	
124A	0561300	2	Steer Cylinder Mounting Block Assembly	
125	4892200	4	Flatwasher 3/4in Hardened	
126	0100019	AR	Compound, Locking	
128	0641607	2	Bolt 3/8in-16NC x 7/8in **(SN 0300065402 through 0300096000)**	
129	3841520	2	Keeper, Pin **(SN 0300065402 through 0300096000)**	
	0259148	Ref	**STEERING INSTALLATION**	H
201	0100011	AR	Compound, Locking	
202	0440162	2	Thrustwasher	
203	0641606	4	Bolt 3/8in-16NC x 3/4in	
204	0681828	4	Bolt 1/2in-13NC x 3-1/2in	
205		Ref	Steer Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
205	1683614	NLA	Steer Cylinder Assembly (Use p/n 1684412) **(Prior to SN 0300087392)**	
205	1001140283	NLA	Steer Cylinder Assembly (Use p/n 1684412) **(SN 0300087392 through 0300096000)**	
206	2780230	2	Hub/Spindle Assembly (See Item 301-316 for Breakdown)	
207	3312008	4	Nut 5/8in-11NC	
208	3322201	2	Nut 3/4in-16NF	
209	3323003	2	Nut 1-1/4in-12NF	
210	3422692	2	Kingpin	
211	3450808	2	Pin, Cotter 1/4in x 2in	
212	3841367	NLA	Rod-End (Use p/n 3841517 Rod-End with p/n 7020180 Grease Fitting)	
		Ref	**Note: Qty (1) p/n 4740086 Thrustwasher required between bottom of p/n 3841517 Rod-End and Tie Rod.**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
213	3841442	2	Tie-Rod	
214	3900109	4	Screw, Shoulder	
215		Ref	Shield, Frame Options:	
215	4060950	1	Shield, Frame **(Prior to SN 0300072506)**	
215	Not Required	0	Shield, Frame **(SN 0300072506 through 0300096000)**	
216	4713000	2	Flatwasher 1-1/4in Thin	
217	4751800	4	Flatwasher 1/2in Regular	
218	4740086	2	Thrustwasher	
	2780230	Ref	**HUB ASSEMBLY**	A
301	7020033	2	Cap, Dust (1 per Assembly)	
302	7020034	2	Spindle Assembly (1 per Assembly)	
303	0961951	4	Bushing (2 Per Assembly)	
304	0962140	2	Bearing (1 per Assembly)	
305	7020035	2	Hub (1 per Assembly) (Includes 306 & 307)	
306	7020036	2	Cup, Bearing - Inner(1 per Assembly)	
307	7020038	2	Cup, Bearing - Outer (1 per Assembly)	
308	7020037	2	Cone, Bearing - Inner (1 per Assembly)	
309	7020039	2	Cone, Bearing - Outer (1 per Assembly)	
310	7020040	2	Seal (1 Per Assembly)	
311	7020041	18	Stud, Wheel (9 Per Assembly)	
313	7020042	18	Lugnut (9 per Assembly)	
314	7020054	2	Nut, Castle (1 per Assembly)	
315	3450608	2	Pin, Cotter (1 Per Assembly)	
316	7020055	2	Washer, Spindle (1 Per Assembly)	
401		Ref	**FRAME WELDMENTS**	
401	2360539	Ref	Frame Weldments 400S with 500Lbs Capacity **(Prior to SN 0300072506)**	
401	2360625	Ref	Frame Weldments 400S with 500Lbs Capacity **(SN 0300072506 through 0300076632)**	
401	2360650	Ref	Frame Weldments 400S with 500Lbs Capacity **(SN 0300076633 through 0300096000)**	
401	2360540	Ref	Frame Weldments 400S with 750Lbs Capacity **(Prior to SN 0300072506)**	
401	2360626	Ref	Frame Weldments 400S with 750Lbs Capacity **(SN 0300072506 through 0300076632)**	
401	2360651	Ref	Frame Weldments 400S with 750Lbs Capacity **(SN 0300076633 through 0300096000)**	
401	2360541	Ref	Frame Weldments 460SJ **(Prior to SN 0300072506)**	
401	2360627	Ref	Frame Weldments 460SJ **(SN 0300072506 through 0300076632)**	
401	2360652	Ref	Frame Weldments 460SJ **(SN 0300076633 through 0300096000)**	
401	2360551	Ref	Frame Weldments 460SJ CE Spec with Pneumatic Tires **(Prior to SN 0300072506)**	
401	2360628	Ref	Frame Weldments 460SJ CE Spec with Pneumatic Tires **(SN 0300072506 through 0300076632)**	
401	2360653	Ref	Frame Weldments 460SJ CE Spec with Pneumatic Tires **(SN 0300076633 through 0300096000)**	

FIGURE 1-2. AXLE AND STEERING INSTALLATION - 2WD WITH TOW PACKAGE

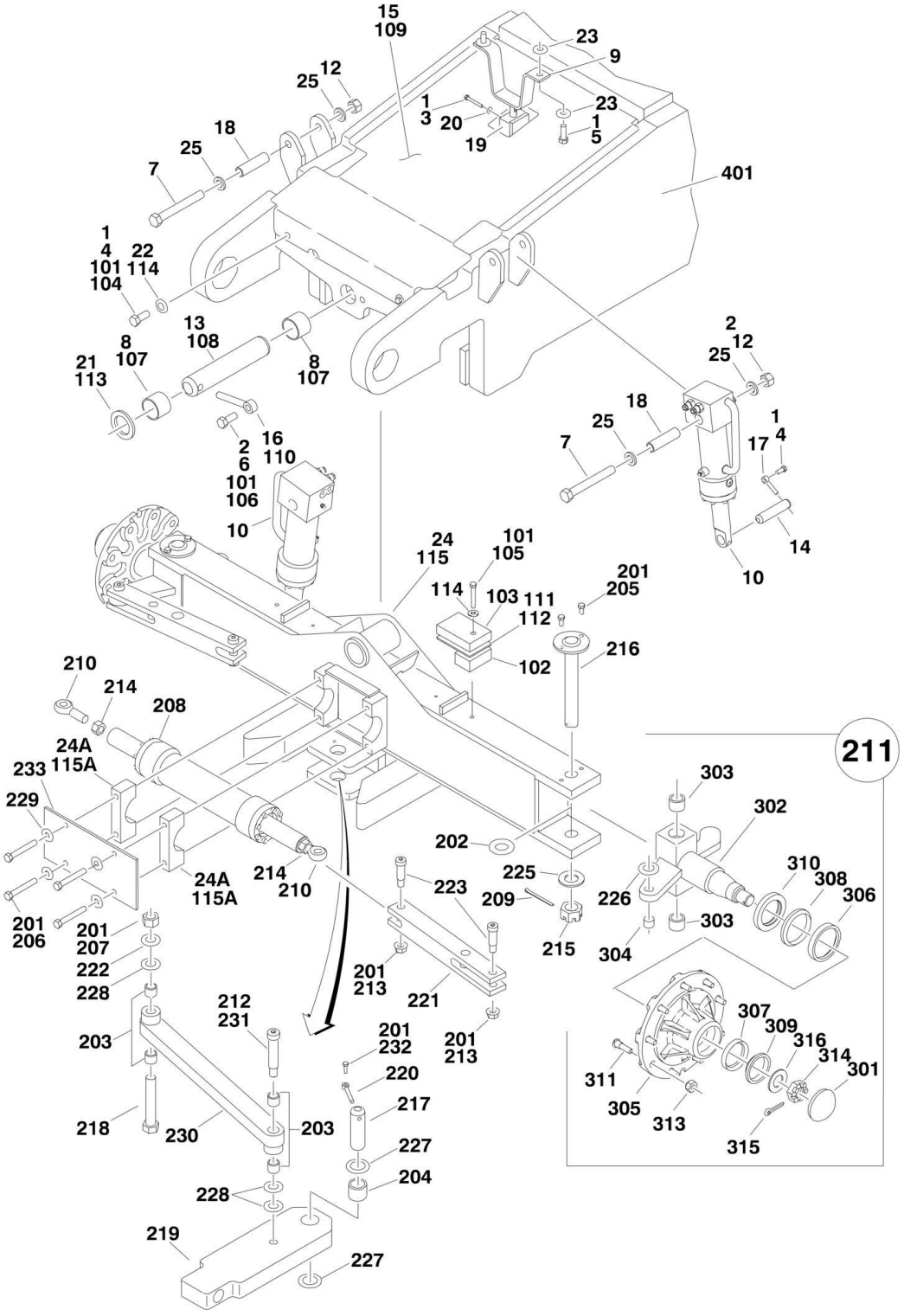


FIGURE 1-2. AXLE AND STEERING INSTALLATION - 2WD WITH TOW PACKAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0273473	Ref	**OSCILLATING AXLE INSTALLATION**	A
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0641424	4	Bolt 1/4in-20NC x 3in	
4	0641607	2	Bolt 3/8in-16NC x 7/8in	
5	0642010	2	Bolt 5/8in-11NC x 1-1/4in	
6	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
7	0682248	2	Bolt 3/4in-10NC x 6in	
8	0961950	2	Bushing	
9	1100123	1	Cam, Lockout	
10	1684139	2	Lockout Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
12	3272201	2	Nut 3/4in-10NC	
13	3422592	1	Pin, Axle Pivot	
14	3422936	2	Pin	
15	3574254	1	Shield, Frame	
16	3841258	1	Keeper, Pin	
17	3841520	2	Keeper, Pin	
18	4567462	2	Tube, Mounting	
19	4640871	1	Lockout Valve Assembly	
19	7012693	1	Seal Kit - 4640871 Valve	
19	7002840	1	Anit-Rotation Pin Removal Tool	
20	4711400	4	Flatwasher 1/4in Thin	
21	4740158	1	Thrustwasher	
22	4751600	2	Flatwasher 3/8in Regular	
23	4752000	4	Flatwasher 5/8in Regular	
24	4846801	1	Axle Weldment	
24A	0561300	2	Steer Cylinder Mounting Block Assembly	
25	4892200	4	Flatwasher 3/4in Hardened	
		Ref	**FIXED AXLE INSTALLATION**	
	0272803	Ref	**Fixed Axle Installation (Prior to SN 0300072506)**	A
	0272906	Ref	**Fixed Axle Installation (SN 0300072506 through 0300096000)**	A
101	0100011	AR	Compound, Locking	
102	0362932	2	Bar, Stop	
103	0362954	2	Bar, Stop	
104	0641607	2	Bolt 3/8in-16NC x 7/8in	
105	0641626	2	Bolt 3/8in-16NC x 3-1/4in	
106	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
107	0961950	2	Bushing	
108	3422592	1	Pin, Axle Pivot	
109		Ref	Shield, Frame Options:	
109	4060978	1	Shield, Frame **(Prior to SN 0300072506)**	
109	3574254	1	Shield, Frame **(SN 0300072506 through 0300096000)**	
110	3841258	1	Keeper, Pin	
111	4070973	2	Shim 11Ga	
112	4071002	4	Shim 20Ga	
113	4740158	1	Thrustwasher	
114	4751600	2	Flatwasher 3/8in Regular	
115	4846426	1	Axle Weldment	
115A	0561300	2	Steer Cylinder Mounting Block Assembly	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272804	Ref	**STEERING INSTALLATION**	G
201	0100011	AR	Compound, Locking	
202	0440162	2	Thrustwasher	
203	0962292	4	Bushing	
204	0962348	1	Bushing	
205	0641606	4	Bolt 3/8in-16NC x 3/4in	
206		Ref	Bolt Options:	
206	0681828	4	Bolt 1/2in-13NC x 3-1/2in (With Cylinder Shield)	
206	0681824	4	Bolt 1/2in-13NC x 3in (Without Cylinder Shield)	
207	3272205	2	Locknut 3/4in-16NF	
208		Ref	Steer Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
208	1683614	NLA	Steer Cylinder Assembly (Use p/n 1684412) **(Prior to SN 0300087392)**	
208	1001140283	NLA	Steer Cylinder Assembly (Use p/n 1684412) **(SN 0300087392 through 0300096000)**	
209	3450808	2	Pin, Cotter 1/4in x 2in	
210	3841367	NLA	Rod-End (Use p/n 3841517 Rod-End with p/n 7020180 Grease Fitting)	
		Ref	**Note: Qty (1) p/n 4740086 Thrustwasher required between bottom of p/n 3841517 Rod-End and Tie Rod.**	
211	2780230	2	Hub/Spindle Assembly (See Items 201-213 for Breakdown)	
212	3900295	1	Bolt, Shoulder 1in x 3in	
213	3312008	4	Nut 5/8in-11NC	
214	3322201	2	Nut 3/4in-16NF	
215	3323003	2	Nut 1-1/4in-12NF	
216	3422692	2	Kingpin	
217	3422848	1	Pin, Hitch	
218	3900296	1	Bolt, Shoulder 1in x 4-1/2in	
219	3574235	1	Plate, Tow Bar Pivot	
220	3841143	1	Keeper	
221	3841619	2	Tie-Rod	
222	4712400	1	Flatwasher 7/8in Thin	
223	3900109	4	Screw, Shoulder	
225	4713000	2	Flatwasher 1-1/4in Thin	
226	4740086	2	Thrustwasher	
227	4740155	2	Thrustwasher	
228	4740491	3	Thrustwasher	
229	4751800	4	Flatwasher 1/2in Regular	
230	4846802	1	Weldment, Link	
231	0100019	AR	Compound, Locking	
232	0641508	1	Bolt 5/16in-18NC x 1in	
233	4061048	1	Shield, Cylinder Only **(Prior to SN 0300073804)**	
	2780230	Ref	**HUB ASSEMBLY**	A
301	7020033	2	Cap, Dust (1 per Assembly)	
302	7020034	2	Spindle Assembly (1 per Assembly)	
303	0961951	4	Bushing (2 Per Assembly)	
304	0962140	2	Bearing (1 per Assembly)	
305	7020035	2	Hub (1 per Assembly) (Includes Items 306 & 307)	
306	7020036	2	Cup, Bearing - Inner(1 per Assembly)	
307	7020038	2	Cup, Bearing - Outer (1 per Assembly)	
308	7020037	2	Cone, Bearing - Inner (1 per Assembly)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
309	7020039	2	Cone, Bearing - Outer (1 per Assembly)	
310	7020040	2	Seal (1 Per Assembly)	
311	7020041	18	Stud, Wheel (9 Per Assembly)	
313	7020042	18	Lugnut (9 per Assembly)	
314	7020054	2	Nut, Castle (1 per Assembly)	
315	3450608	2	Pin, Cotter (1 Per Assembly)	
316	7020055	2	Washer, Spindle (1 Per Assembly)	
401		Ref	**FRAME WELDMENT OPTIONS:**	
401	2360539	Ref	Frame Weldment 400S with 500Lbs Capacity **(Prior to SN 0300072506)**	
401	2360625	Ref	Frame Weldment 400S with 500Lbs Capacity **(SN 0300072506 through 0300076632)**	
401	2360650	Ref	Frame Weldment 400S with 500Lbs Capacity **(SN 0300076633 through 0300096000)**	
401	2360540	Ref	Frame Weldment 400S with 750Lbs Capacity **(Prior to SN 0300072506)**	
401	2360626	Ref	Frame Weldment 400S with 750Lbs Capacity **(SN 0300072506 through 0300076632)**	
401	2360651	Ref	Frame Weldment 400S with 750Lbs Capacity **(SN 0300076633 through 0300096000)**	
401	2360541	Ref	Frame Weldment 460SJ **(Prior to SN 0300072506)**	
401	2360627	Ref	Frame Weldment 460SJ **(SN 0300072506 through 0300076632)**	
401	2360652	Ref	Frame Weldment 460SJ **(SN 0300076633 through 0300096000)**	
401	2360551	Ref	Frame Weldment 460SJ CE Spec with Pneumatic Tires **(Prior to SN 0300072506)**	
401	2360628	Ref	Frame Weldment 460SJ CE Spec with Pneumatic Tires **(SN 0300072506 through 0300076632)**	
401	2360653	Ref	Frame Weldment 460SJ CE Spec with Pneumatic Tires **(SN 0300076633 through 0300096000)**	

FIGURE 1-3. AXLE AND STEERING INSTALLATION - 4WD

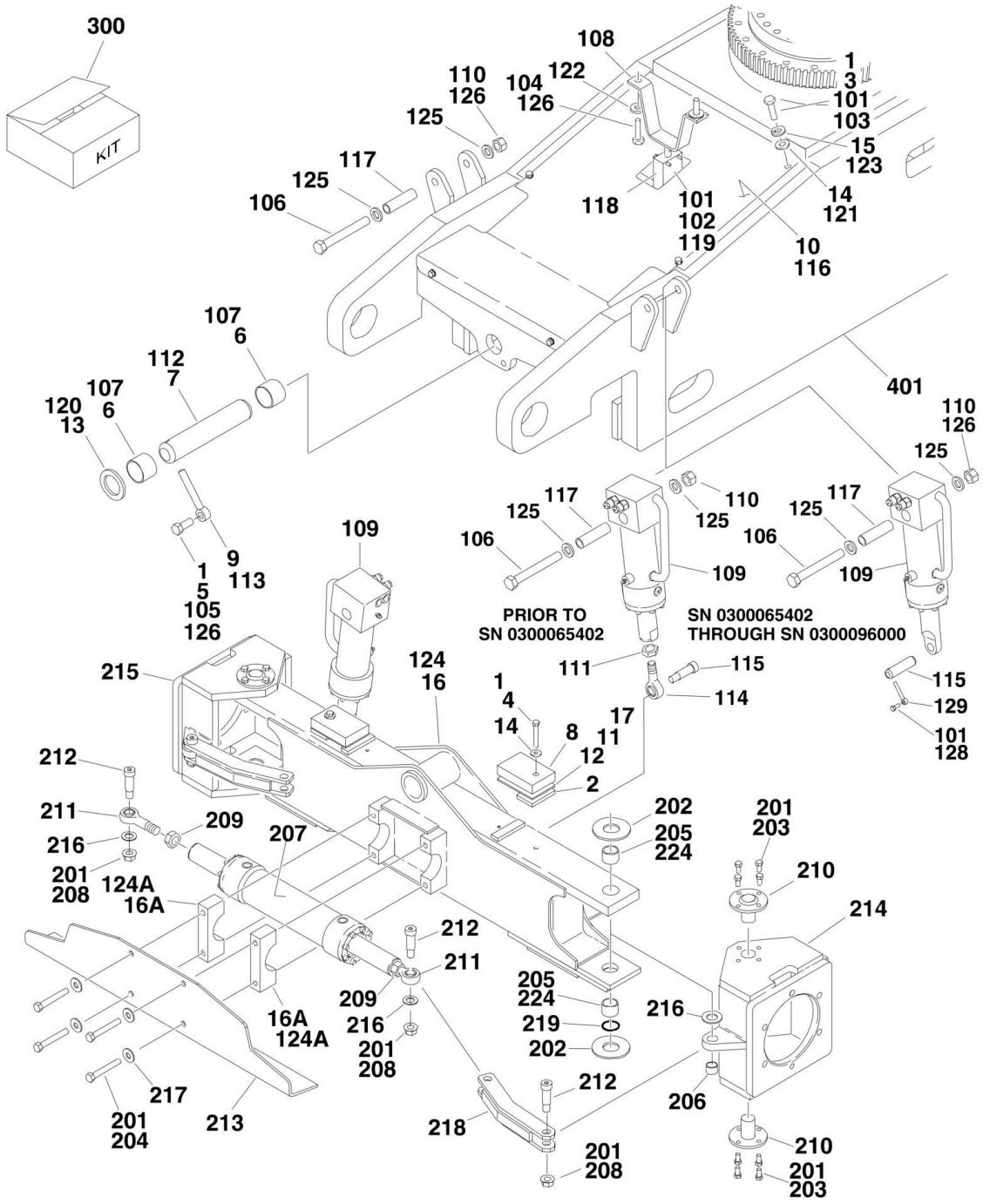


FIGURE 1-3. AXLE AND STEERING INSTALLATION - 4WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**FIXED AXLE INSTALLATION OPTIONS:**	
	0259153	Ref	**Fixed Axle Installation (Prior to SN 0300067471)**	C
	0272275	Ref	**Fixed Axle Installation (SN 0300067471 through 0300072505)**	A
	0272903	Ref	**Fixed Axle Installation (SN 0300072506 through 0300096000)**	A
1	0100011	AR	Compound, Locking	
2	0362965	2	Bar, Stop	
3	0641606	4	Bolt 3/8in-16NC x 3/4in	
4	0641620	2	Bolt 3/8in-16NC x 2-1/2in	
5	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
6	0961950	2	Bushing	
7	3422592	1	Pin, Axle Pivot	
8	0362954	2	Plate, Stop	
9	3841258	1	Keeper, Pin	
10		Ref	Shield, Frame Options:	
10	4060978	1	Shield, Frame **(Prior to SN 0300072506)**	
10	3574254	1	Shield, Frame **(SN 0300072506 through 0300096000)**	
11	4070973	AR	Shim 1/8in	
12	4070972	AR	Shim 3/16in	
13	4740158	1	Thrustwasher	
14	4751600	6	Flatwasher 3/8in Regular	
15	4761600	4	Lockwasher 3/8in	
16		Ref	Axle Weldment Options:	
16	4846069	1	Axle Weldment **(Prior to SN 0300067471)**	
16	4846550	1	Axle Weldment **(SN 0300067471 through 0300096000)**	
		Ref	**Note: If kingpin holes in axle measure 1.503in diameter or larger in any direction, axle weldment must be replaced. See Field Service Bulletin AWP-04-11.**	
17	4071002	AR	Shim 20-Gauge	
		Ref	**OSCILLATING AXLE INSTALLATION OPTIONS:**	
	0259151	Ref	**Australian Spec (Prior to SN 0300065402)**	E
	0271978	Ref	**Australian Spec (SN 0300065402 through 0300072505)**	A
	0272901	Ref	**Australian Spec (SN 0300072506 through 0300096000)**	A
	0270716	Ref	**CE Spec (Prior to SN 0300065402)**	A
	0271980	Ref	**CE Spec (SN 0300065402 through 0300072505)**	B
	0272905	Ref	**CE Spec (SN 0300072506 through 0300096000)**	A
101	0100011	AR	Compound, Locking	
102		Ref	Bolt Options:	
102	0641414	4	Bolt 1/4in-20NC x 1-3/4in (Australian Spec)	
102	0641424	4	Bolt 1/4in-20NC x 3in (CE Spec)	
103	0641606	4	Bolt 3/8in-16NC x 3/4in	
104	0642010	2	Bolt 5/8in-11NC x 1-1/4in	
105	0642012	1	Bolt 5/8in-11NC x 1-1/2in	
106	0682248	2	Bolt 3/4in-10NC x 6in (Grade 8)	
107	0961950	2	Bushing	
108		Ref	Cam, Lockout Options:	
108	1100118	1	Australian Spec	
108	1100123	1	CE Spec	
109		Ref	Lockout Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
109	1683575	NLA	Lockout Cylinder Assembly (Use p/n 1684139) **(Prior to SN**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			0300065402)	
109	1684139	2	Lockout Cylinder Assembly **(SN 0300065402 through 0300096000)**	
110	3272201	2	Nut 3/4in-10NC	
111	3322201	2	Nut 3/4in-16NF **(Prior to SN 0300065402)**	
112	3422592	1	Pin, Axle Pivot	
113	3841258	1	Keeper, Pin	
114	3841367	2	Rod-End with Grease Fitting **(Prior to SN 0300065402)**	
114	7020180	1	Grease Fitting	
115		Ref	Hardware Options:	
115	3900109	2	Screw, Shoulder **(Prior to SN 0300065402)**	
115	3422936	2	Pin **(SN 0300065402 through 0300096000)**	
116		Ref	Shield, Frame Options:	
116	4060978	1	Shield, Frame **(Prior to SN 0300072506)**	
116	3574254	1	Shield, Frame **(SN 0300072506 through 0300096000)**	
117	4567462	2	Tube, Mounting	
118	4640871	AR	Lockout Valve Assembly	
118		Ref	Australian Spec	
118		Ref	CE Spec	
118	7012693	AR	Seal Kit - 4640871 Valve	
118	7002840	1	Anti-Rotation Pin Removal Tool	
119	4711400	4	Flatwasher 1/4in Thin	
120	4740158	1	Thrustwasher	
121	4751600	4	Flatwasher 3/8in Regular	
122	4752000	4	Flatwasher 5/8in Regular	
123	4761600	4	Lockwasher 3/8in	
124		Ref	Axle Weldment Options:	
124	4846069	1	Axle Weldment **(Prior to SN 0300067471)**	
124	4846550	1	Axle Weldment **(SN 0300067471 through 0300096000)**	
		Ref	**Note: If kingpin holes in axle measure 1.503in diameter or larger in any direction, axle weldment must be replaced. See Field Service Bulletin AWP-04-11.**	
125	4892200	4	Flatwasher 3/4in Hardened	
126	0100019	AR	Compound, Locking	
128	0641607	2	Bolt 3/8in-16NC x 7/8in **(SN 0300065402 through 0300096000)**	
129	3841520	2	Keeper, Pin **(SN 0300065402 through 0300096000)**	
		Ref	**STEERING INSTALLATION**	
	0259149	Ref	**Steering Installation (Prior to SN 0300076633)**	D
	0272927	Ref	**Steering Installation (SN 0300076633 through 0300096000)**	G
201	0100011	AR	Compound, Locking	
202		Ref	Thrustwasher Options:	
202	0440161	4	Thrustwasher (Top and Bottom Kingpin Location) (Note: See Kit) **(Prior to SN 0300079125)**	
202	4740537	AR	Thrustwasher (.0625) (Top Kingpin Location) **(SN 0300079125 through 0300096000)**	
202	4740538	AR	Thrustwasher (.125) (Top Kingpin Location) **(SN 0300079125 through 0300096000)**	
202	4740539	AR	Thrustwasher (.188) (Top Kingpin Location) **(SN 0300079125 through 0300096000)**	
202	4740540	AR	Thrustwasher (.250) (Top Kingpin Location) **(SN 0300079125 through 0300096000)**	
202	0440271	2	Thrustwasher (Bottom Kingpin Location) **(SN 0300079125 through 0300096000)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
203	0641606	AR	Bolt 3/8in-16NC x 3/4in	
203		Ref	Bolt 3/8in-16NC x 3/4in **(Prior to SN 0300079125)**	
203		Ref	Bolt 3/8in-16NC x 3/4in **(SN 0300079125 through 0300096000)**	
204	0681828	4	Bolt 1/2in-13NC x 3-1/2in	
205		Ref	Bushing Options:	
205	0961951	4	Bushing (Top and Bottom Kingpin Locations) (Note: See Kit) **(Prior to SN 0300079125)**	
205	0440291	2	Bushing (Top Kingpin Location) **(SN 0300079125 through 0300096000)**	
205	0440274	2	Bushing (Bottom Kingpin Location) **(SN 0300079125 through 0300096000)**	
206	0962140	2	Bearing	
207		Ref	Steer Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
207	1683614	NLA	Steer Cylinder Assembly (Use p/n 1684412) **(Prior to SN 0300087392)**	
207	1001140283	NLA	Steer Cylinder Assembly (Use p/n 1684412) **(SN 0300087392 through 0300096000)**	
208	3312008	4	Nut 5/8in-11NC	
209	3322201	2	Nut 3/4in-16NF	
210		Ref	Kingpin Options:	
210	3422716	4	Kingpin (2 Bolt Mounting) (Note: See Kit) **(Prior to SN 0300079125)**	
210	3423081	4	Kingpin (4 Bolt Mounting) **(SN 0300079125 through 0300096000)**	
211	3841367	NLA	Rod-End (Use p/n 3841367 Rod-End with p/n 7020180 Grease Fitting)	
		Ref	**Note: Qty (1) p/n 4740086 Thrustwasher required between bottom of p/n 3841517 Rod-End and Tie Rod.**	
212	3900109	4	Screw, Shoulder	
213	4060950	1	Shield, Frame Only **(Prior to SN 0300072506)**	
214		Ref	Spindle (Left Side) Options:	
214	4130368	NLA	Spindle (Left Side) (Use p/n 4130403) **(Prior to SN 0300079125)**	
214	4130405	1	Spindle (Left Side) **(SN 0300079125 through 0300096000)**	
215		Ref	Spindle (Right Side) Options:	
215	4130369	NLA	Spindle (Right Side) (Use p/n 4130404) **(Prior to SN 0300079125)**	
215	4130406	1	Spindle (Right Side) **(SN 0300079125 through 0300096000)**	
216	4740086	4	Thrustwasher	
217	4751800	4	Flatwasher 1/2in Regular	
218	4846070	2	Tie-Rod	
219	3780182	2	O-Ring Only (Bottom Kingpin Location Only) **(SN 0300079125 through 0300096000)**	
224	3020029	AR	Grease, Bearing	
300	2902400	1	Kingpin and Bushings Update Kit for Machines Built (Includes Newer Design Items 202, 203, 205, 210 & 219). See Field Service Bulletin AWP-04-11. **(Prior to SN 0300079125, SN 0300079125 through 0300096000)**	
		Ref	**Note: Newer bushings will fit in "Prior to SN 0300079125" axles however if kingpin holes measure 1.503in diameter or larger in any direction, axle weldment must be replaced before installation of kit.**	
		Ref	**Note: Spindles require drilling and tapping for 8 additional kingpin mtg bolts. Newer design kingpins require 4 mtg**	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			bolts each.	
401		Ref	**FRAME WELDMENT OPTIONS**	
401	2360539	Ref	Frame Weldment 400S with 500Lbs Capacity **(Prior to SN 0300072506)**	
401	2360625	Ref	Frame Weldment 400S with 500Lbs Capacity **(SN 0300072506 through 0300076632)**	
401	2360650	Ref	Frame Weldment 400S with 500Lbs Capacity **(SN 0300076633 through 0300096000)**	
401	2360540	Ref	Frame Weldment 400S with 750Lbs Capacity **(Prior to SN 0300072506)**	
401	2360626	Ref	Frame Weldment 400S with 750Lbs Capacity **(SN 0300072506 through 0300076632)**	
401	2360651	Ref	Frame Weldment 400S with 750Lbs Capacity **(SN 0300076633 through 0300096000)**	
401	2360541	Ref	Frame Weldment 460SJ **(Prior to SN 0300072506)**	
401	2360627	Ref	Frame Weldment 460SJ **(SN 0300072506 through 0300076632)**	
401	2360652	Ref	Frame Weldment 460SJ **(SN 0300076633 through 0300096000)**	
401	2360551	Ref	Frame Weldment 460SJ CE Spec with Pneumatic Tires **(Prior to SN 0300072506)**	
401	2360628	Ref	Frame Weldment 460SJ CE Spec with Pneumatic Tires **(SN 0300072506 through 0300076632)**	
401	2360653	Ref	Frame Weldment 460SJ CE Spec with Pneumatic Tires **(SN 0300076633 through 0300096000)**	

FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATIONS

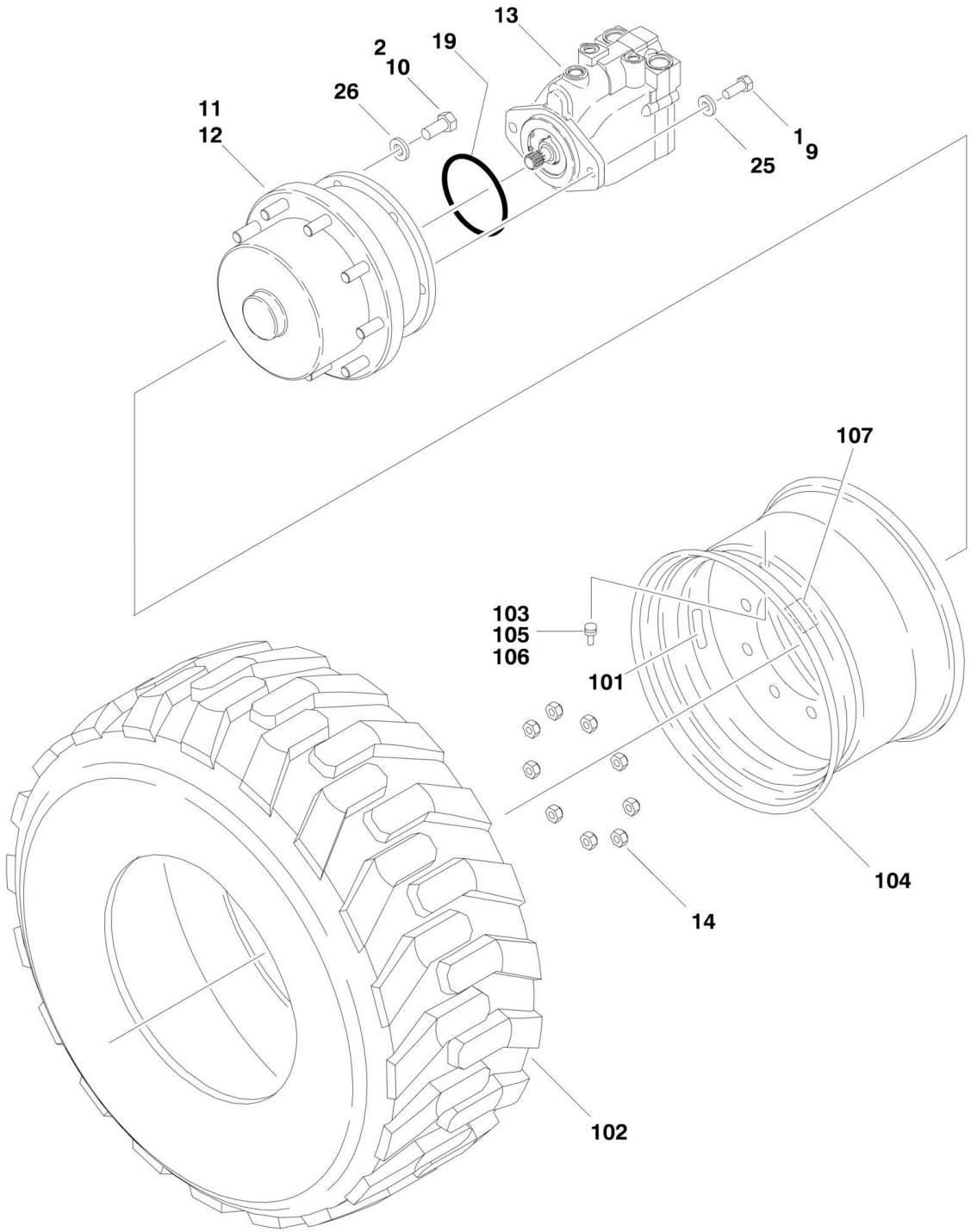


FIGURE 1-4. TIRE AND WHEEL DRIVE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**WHEEL DRIVE INSTALLATIONS**	
	0259145	Ref	**2WD (Prior to SN 0300072506)**	H
	0272784	Ref	**2WD (SN 0300072506 through 0300076632)**	A
	0272926	Ref	**2WD (SN 0300076633 through 0300096000)**	A
	0259146	Ref	**4WD (Prior to SN 0300072506)**	J
	0272783	Ref	**4WD (SN 0300072506 through 0300076632)**	A
	0272925	Ref	**4WD (SN 0300076633 through 0300096000)**	C
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
9		Ref	Hardware Options:	
9	0681810	AR	Bolt 1/2in-13NC x 1-1/4in (Grade 8)	
9	3311801	AR	Nut 1/2in-13NC (2WD Only) (Not Shown) **(SN 0300076633 through 0300096000)**	
10		Ref	Bolt 5/8in-11NC x 1-1/2in (Grade 8)	
10	0682012	AR	Bolt 5/8in-11NC x 1-1/2in (Grade 8) **(Prior to SN 0300076633)**	
10	0682014	AR	Bolt 5/8in-11NC x 1-3/4in (Grade 8) **(SN 0300076633 through 0300096000)**	
11		Ref	Drive Hub Assembly Options:	
11	Not Required	0	2WD Front	
11	2780246	2	4WD Front (See DRIVE HUB ASSEMBLY for Breakdown) **(Prior to SN 0300076633)**	
11	2780268	2	4WD Front (See DRIVE HUB AND HUB WITH BRAKE ASSEMBLIES for Breakdown) **(SN 0300076633 through 0300096000)**	
12		Ref	Drive Hub/Brake Assembly Options:	
12	2780243	2	2WD Rear (See DRIVE HUB/BRAKE ASSEMBLY (REAR) for Breakdown) **(Prior to SN 0300064140)**	
12	2780253	2	2WD Rear (See DRIVE HUB/BRAKE ASSEMBLY (REAR) for Breakdown) **(SN 0300064140 through 0300076632)**	
12	2780267	2	2WD Rear (See DRIVE HUB AND HUB WITH BRAKE ASSEMBLIES for Breakdown) **(SN 0300076633 through 0300096000)**	
12	2780244	2	4WD Rear (See DRIVE HUB/BRAKE ASSEMBLY (REAR) for Breakdown) **(Prior to SN 0300057477)**	
12	2780254	2	4WD Rear (See DRIVE HUB/BRAKE ASSEMBLY (REAR) for Breakdown) **(SN 0300057477 through 0300076632)**	
12	2780267	2	4WD Rear (See DRIVE HUB AND HUB WITH BRAKE ASSEMBLIES for Breakdown) **(SN 0300076633 through 0300096000)**	
13		Ref	Drive Motor Assembly Options:	
13	3160242	NLA	2WD Rear (Use p/n 3160353 - See DRIVE MOTOR ASSEMBLY (4 BOLT) for Breakdown) (For 3160353 - See DRIVE MOTOR ASSEMBLY (5 BOLT) for Breakdown) **(Prior to SN 0300076633)**	
13	3160298	NLA	2WD Rear (Use p/n 3160351 - See DRIVE MOTOR ASSEMBLY (4 BOLT) for Breakdown) (For 3160351 - See DRIVE MOTOR ASSEMBLY (5 BOLT) for Breakdown) **(SN 0300076633 through 0300096000))**	
13	3160243	NLA	4WD Front and Rear (Use p/n 3160354 - See DRIVE MOTOR ASSEMBLY (4 BOLT) for Breakdown) (For 3160354 - See DRIVE MOTOR ASSEMBLY (5 BOLT) for Breakdown) **(Prior to SN 0300076633)**	
13	3160266	NLA	4WD Front and Rear (Use p/n 3160348 - See DRIVE MOTOR ASSEMBLY (4 BOLT) for Breakdown) (For 3160348 - See FDRIVE MOTOR ASSEMBLY (5 BOLT) for Breakdown) **(SN**	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			0300076633 through 0300096000)	
14	3300106	AR	Lugnut (9 Per Hub)	
19	3790045	AR	O-Ring (1 Per Motor)	
25	4891800	AR	Flatwasher 1/2in Hardened	
26	4892000	AR	Flatwasher 5/8in Hardened	
27	2300016	AR	Fluid, Hydraulic (Not Shown - Use with Brake)	
		Ref	**TIRE AND WHEEL INSTALLATIONS**	
	0270092	Ref	**12 x 16.5 Foam-Filled**	A
	0270653	Ref	**12 x 16.5 Foam-Filled (Non-Marking)**	A
	0270094	Ref	**14 x 16.1 Foam-Filled**	A
	0259354	Ref	**14 x 17.5 Foam-Filled (Prior to SN 0300064803)**	A
	0271998	Ref	**14 x 17.5 Foam-Filled (SN 0300064803 through 0300096000)**	A
	0270094	Ref	**33/16LL x 16.1 Foam-Filled**	A
	0270076	2	12 x 16.5 Foam-Filled Right Side (See Note)	A
	0270077	2	12 x 16.5 Foam-Filled Left Side (See Note)	A
	0270654	2	12 x 16.5 Foam-Filled Right Side (Non-Marking) (See Note)	A
	0270655	2	12 x 16.5 Foam-Filled Left Side (Non-Marking) (See Note)	A
	0270079	4	14 x 16.1 Foam-Filled (See Note)	A
	0259355	2	14 x 17.5 Foam-Filled Right Side (See Note) **(Prior to SN 0300064803)**	B
	0271997	2	14 x 17.5 Foam-Filled Right Side (See Note) **(SN 0300064803 through 0300096000)**	A
	0259356	2	14 x 17.5 Foam-Filled Left Side (See Note) **(Prior to SN 0300064803)**	B
	0271996	2	14 x 17.5 Foam-Filled Left Side (See Note) **(SN 0300064803 through 0300096000)**	A
	0270079	4	33/16LL x 16.1 Foam-Filled (See Note)	A
		Ref	**Note: Assemblies may require ballast/foam filling to manufacturer's specifications prior to installing on a machine. Refer to Operation and Safety or Service and Maintenance Manuals. Purchase individual tire and/or rim only if able to foam fill tire and wheel assembly, otherwise, purchase complete assembly.**	
101	Not Required	0	Decal	
102		Ref	Tire Options:	
102	4520216	1	12 x 16.5 NHS	
102	4520240	1	12 x 16.5 NHS (Non-Marking)	
102	4520212	1	14 x 16.1	
102	4520171	NLA	14 x 17.5 NHS (Use p/n 4520259) **(Prior to SN 0300064803)**	
102	4520259	1	14 x 17.5 NHS **(SN 0300064803 through 0300096000)**	
102	4520212	1	33/16LL x 16.1	
103	4640113	1	Valve, Air (Pneumatic Only)	
104		Ref	Rim, Wheel	
104	4860214	1	16.1 x 14 (Use with 33/16LL x 16.1 & 14 x 16.1 Tires)	
104	4860213	1	16.5 x 9.75 (Use with 12 x 16.5 Tires)	
104	4860198	1	17.5 x 10.50 (Use with 14 x 17.5 Tires)	
105	Not Required	0	Cap, Valve Stem (Green) (Required with Tire Sealant)	
106	Not Required	0	Chemical, Tire Sealant	
107	Not Required	0	Decal - Tire Sealant (Required with Tire Sealant)	

FIGURE 1-5. DRIVE HUB ASSEMBLY (4WD FRONT) (Prior to SN 0300076633)

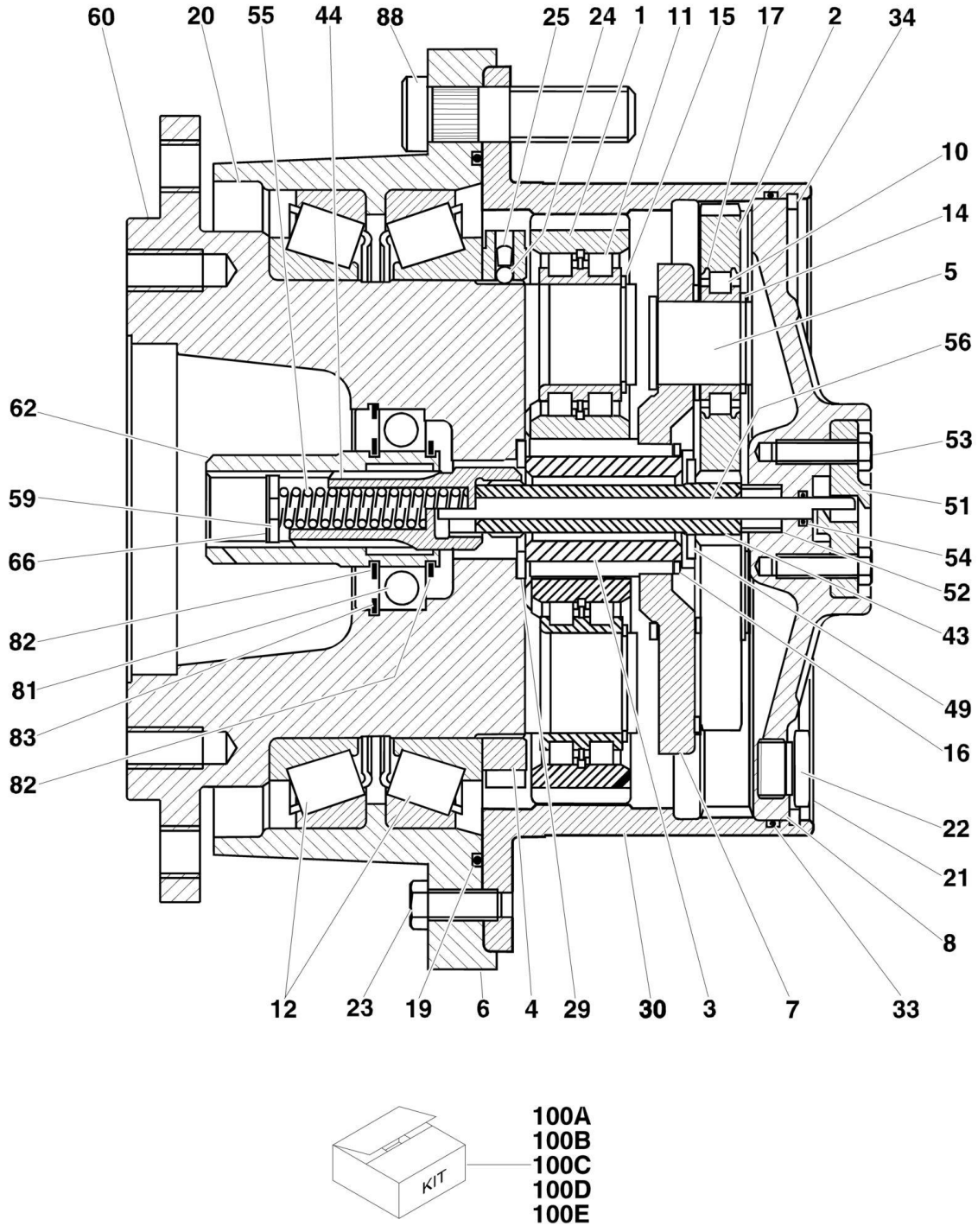


FIGURE 1-5. DRIVE HUB ASSEMBLY (4WD FRONT) (Prior to SN 0300076633)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780246	Ref	**DRIVE HUB ASSEMBLY (4WD FRONT)**	A
1	See Note	NSS	Gear, Planet (Note: Use Item 100A)	
2	See Note	NSS	Gear, Planet (Note: Use Item 100B)	
3	7021325	1	Gear, Sun	
4	See Note	NSS	Nut, Shaft (Note: Use Item 100D)	
		Ref	**Note: Unless there is capability to torque shaft nut (Item 4) to 626 ft/lbs. (850Nm) Repair beyond this level is not advised.**	
5	7021326	3	Bolt, Planet	
6	7021327	1	Ring, Support	
7	7021328	1	Carrier, Planet	
8	See Note	NSS	Cover (Note: Use Item 100C)	
10	See Note	NSS	Bearing, Roller (Note: Use Item 100B)	
11	See Note	NSS	Bearing, Roller (Note: Use Item 100A)	
12	See Note	NSS	Bearing, Roller (Note: Use Item 100D)	
14	See Note	NSS	Ring, Retaining (Note: Use Item 100B)	
15	See Note	NSS	Ring, Retaining (Note: Use Item 100A)	
17	See Note	NSS	Disk, Support (Note: Use Item 100B)	
20	See Note	NSS	Seal, Ring (Note: Use Item 100D)	
21	See Note	NSS	Plug (Note: Use Item 100C)	
22	See Note	NSS	Seal, Ring (Note: Use Item 100C)	
23	7021342	3	Bolt	
24	See Note	NSS	Ball (Note: Use Item 100D)	
25	See Note	NSS	Expander (Note: Use Item 100D)	
30	7021346	1	Gear, Ring	
33	See Note	NSS	O-Ring (Note: Use Item 100C)	
34	See Note	NSS	Ring, Retaining (Note: Use Item 100C)	
43	7021347	1	Shaft, Sun Gear	
44	7021337	1	Shaft, Input	
51	See Note	NSS	Cover (Note: Use Item 100C)	
52	See Note	NSS	Disk (Note: Use Item 100C)	
53	See Note	NSS	Bolt (Note: Use Item 100C)	
54	See Note	NSS	O-Ring (Note: Use Item 100C or 100E)	
55	See Note	NSS	Spring, Pressure (Note: Use Item 100E)	
56	See Note	NSS	Rod, Shaft (Note: Use Item 100E)	
59	See Note	NSS	Disk, Rotor (Note: Use Item 100E)	
60	7021339	1	Spindle	
62	7021340	1	Coupler	
66	See Note	NSS	Ring, Retaining (Note: Use Item 100E)	
81	See Note	NSS	Bearing, Ball (Note: Use Item 100D)	
88	7021344	9	Stud, Wheel	
100		Ref	Repair Kit Options:	
100A	7022544	1	Planet Gear (Includes Qty 4 of Items 1, 11 & 15)	
100B	7022545	1	Planet Gear (Includes Qty 3 of Items 2, 10, 14 & 17)	
100C	7021329	1	Cover Kit (Includes Items 8, 21, 22, 33, 34, 51, 52, 53 & 54)	
100D	7021330	1	Bearing Kit (Includes Items 4, 12, 20, 24, 25 & 81)	
		Ref	**Note: Unless there is capability to torque shaft nut (Item 4) to 626 ft/lbs. (850Nm) Repair beyond this level is not advised.**	
100E	7021338	1	Mechanical Disconnect Kit (Includes Items 54-56, 59 & 66)	

FIGURE 1-6. DRIVE HUB/BRAKE ASSEMBLY (REAR) (Prior to SN 0300076633)

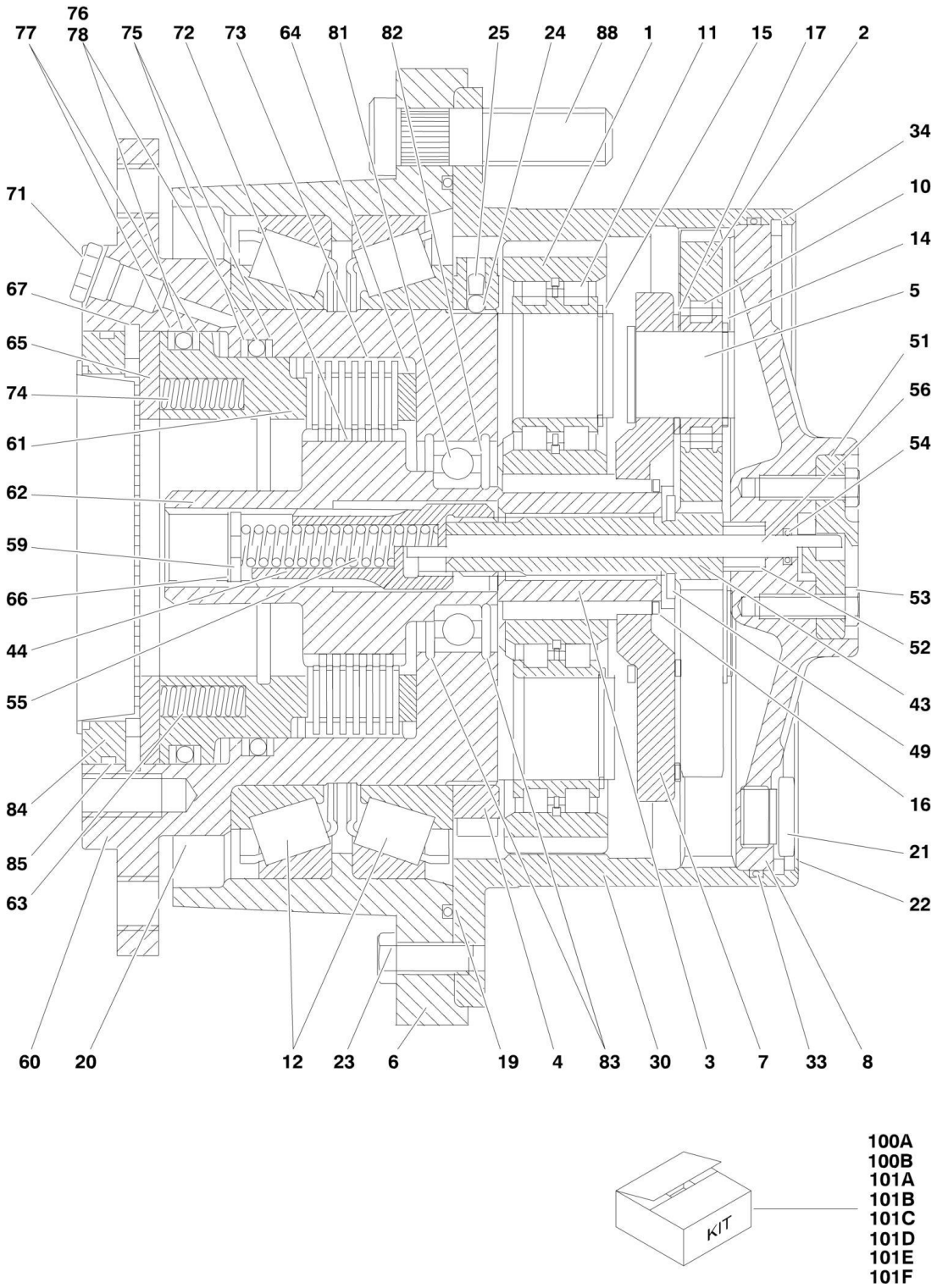


FIGURE 1-6. DRIVE HUB/BRAKE ASSEMBLY (REAR) (Prior to SN 0300076633)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DRIVE HUB/BRAKE ASSEMBLIES**	
	2780243	Ref	**2WD Rear (Prior to SN 0300064140)**	A
	2780253	Ref	**2WD Rear (SN 0300064140 through 0300096000)**	A
	2780244	Ref	**4WD Rear (Prior to SN 0300057477)**	A
	2780254	Ref	**4WD Rear (SN 0300057477 through 0300096000)**	A
1	See Note	NSS	Gear, Planet (Note: Use Item 101A)	
2	See Note	NSS	Gear, Planet (Note: Use Item 101B)	
3	7021325	1	Gear, Sun	
4	See Note	NSS	Nut, Shaft (Note: Use Item 101D)	
		Ref	**Note: Unless there is capability to torque shaft nut (Item 4) to 626 ft/lbs. (850Nm) Repair beyond this level is not advised.**	
5	7021326	3	Pin, Planet	
6	7021327	1	Ring, Support	
7		Ref	Carrier, Planet Options:	
7	7021349	1	2780243 & 2780253 Hub (2WD Rear)	
7	7021328	1	2780244 & 2780254 Hub (4WD Rear)	
8	See Note	NSS	Cover (Note: Use Item 101C)	
10	See Note	NSS	Bearing, Roller (Note: Use Item 101B)	
11	See Note	NSS	Bearing, Roller (Note: Use Item 101A)	
12	See Note	NSS	Bearing, Roller (Note: Use Item 101D)	
14	See Note	NSS	Ring, Retaining (Note: Use Item 101B)	
15	See Note	NSS	Ring, Retaining (Note: Use Item 101A)	
16	7021341	1	Ring, Retaining	
17	See Note	NSS	Disk, Support (Note: Use Item 101B)	
19	See Note	NSS	O-Ring (Note: Use Item 101D)	
20	See Note	NSS	Seal, Ring (Note: Use Item 101D)	
21	See Note	NSS	Plug (Note: Use Item 101C)	
22	See Note	NSS	Seal, Ring (Note: Use Item 101C)	
23	7021342	3	Bolt	
24	See Note	NSS	Ball (Note: Use Item 101D)	
25	See Note	NSS	Expander (Note: Use Item 101D)	
30		Ref	Gear, Ring Options:	
30	7021335	1	2780243 & 2780253 Hub (2WD Rear)	
30	7021346	1	2780244 & 2780254 Hub (4WD Rear)	
33	See Note	NSS	O-Ring (Note: Use Item 101C)	
34	See Note	NSS	Ring, Retaining (Note: Use Item 101C)	
43		Ref	Shaft, Sun Gear Options:	
43	7021351	1	2780243 & 2780253 Hub (2WD Rear)	
43	7021347	1	2780244 & 2780254 Hub (4WD Rear)	
44	7021337	1	Shaft, Input	
51	See Note	NSS	Cover (Note: Use Item 101C)	
52	See Note	NSS	Disk (Note: Use Item 101C)	
53	See Note	NSS	Bolt (Note: Use Item 101C or 101E)	
54	See Note	NSS	O-Ring (Note: Use Item 101C or 101E)	
55	See Note	NSS	Spring, Pressure (Note: Use Item 101E)	
56	See Note	NSS	Rod, Shaft (Note: Use Item 101E)	
59	See Note	NSS	Disk, Rotor (Note: Use Item 101E)	
60		Ref	Spindle Options:	
60	7021352	1	2780243/2780253 Hub (2WD Rear)/2780244 Hub (4WD Rear)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
60	2780254	1	2780254 Hub (4WD Rear) (Note: Not Available - Purchase Complete Drive Hub/Brake Assembly)	
61	See Note	1	Housing, Brake (Note: Not Available for Purchase)	
62		Ref	Coupler Options:	
62	7021340	1	2780243 & 2780253 Hub (2WD Rear)	
62	7021359	1	2780244 & 2780254 Hub (4WD Rear)	
63		Ref	Ring, Spacer Options:	
63	Not Required	0	2780243 Hub (2WD Rear)/2780244 Hub (4WD Rear)	
63	7022549	1	2780253 Hub (2WD Rear)/2780254 Hub (4WD Rear)	
64		Ref	Plate, Back-up Options:	
64	7021354	1	2780243 Hub (2WD Rear)/2780244 Hub (4WD Rear)	
64	Not Required	0	2780253 Hub (2WD Rear)/2780254 Hub (4WD Rear)	
65	7021355	1	Plate, Back-up	
66	7021338	1	Ring, Retaining	
67	7021356	1	Ring, Retaining	
71		Ref	Plug Options:	
71	7021357	1	2780243 Hub (2WD Rear)/2780244 Hub (4WD Rear)	
71	7022551	1	2780253 Hub (2WD Rear)/2780254 Hub (4WD Rear)	
72	See Note	6	Disc, Brake (Note: Use Item 101F)	
73	See Note	7	Disc, Brake (Note: Use Item 101F)	
74	See Note	8	Spring (Note: Use Item 101F)	
75	See Note	NSS	Ring, Back-up (Note: Use Item 101B)	
76	See Note	NSS	O-Ring (Note: Use Item 101B)	
77	See Note	NSS	Ring, Back-up (Note: Use Item 101B)	
78	See Note	NSS	O-Ring (Note: Use Item 101B)	
81	See Note	NSS	Bearing, Ball (Note: Use Item 101D)	
84	7021358	1	Ring, Seal	
85	7024980	1	Seal	
88	7021344	9	Stud, Wheel	
100		Ref	Seal Kit Options:	
100A	See Note	1	Hub Seal Kit (Note: Purchase Repair Kit that includes Seals Needed)	
100B	7022547	1	Brake Seal Kit (Includes Items 75, 76, 77 & 78)	
101		Ref	Repair Kit Options:	
101A	7022544	1	Planet Gear (Includes Qty 4 of Items 1, 11 & 15)	
101B		Ref	Planet Gear (Includes Oty 3 of Items 2, 10, 14 & 17) Options:	
101B	7024017	1	2780243/2780253 Hub (2WD Rear)	
101B	7022545	1	2780244/2780254 Hub (4WD Rear)	
101C	7021329	1	Cover Kit (Includes Items 8,21, 22, 33, 34, 51, 52, 53 & 54)	
101D	7021330	1	Bearing Kit (Includes Items 4, 12, 19, 20, 24, 25 & 81)	
		Ref	**Note: Unless there is capability to torque shaft nut (Item 4) to 626 ft/lbs. (850Nm) Repair beyond this level is not advised.**	
101E	7021338	1	Mechanical Disconnect Kit (Includes Items 53, 54, 55, 56, 59 & 66)	
101F		Ref	Brake Kit (Includes Items 72, 73 & 74)	
101F	7024026	1	2780243 (2WD Rear)/2780244 Hub (4WD Rear)	
101F	7022548	1	2780253 Hub (2WD Rear)/2780254 Hub (4WD Rear)	

FIGURE 1-7. DRIVE HUB AND HUB WITH BRAKE ASSEMBLIES (SN 0300076633 through 0300096000)

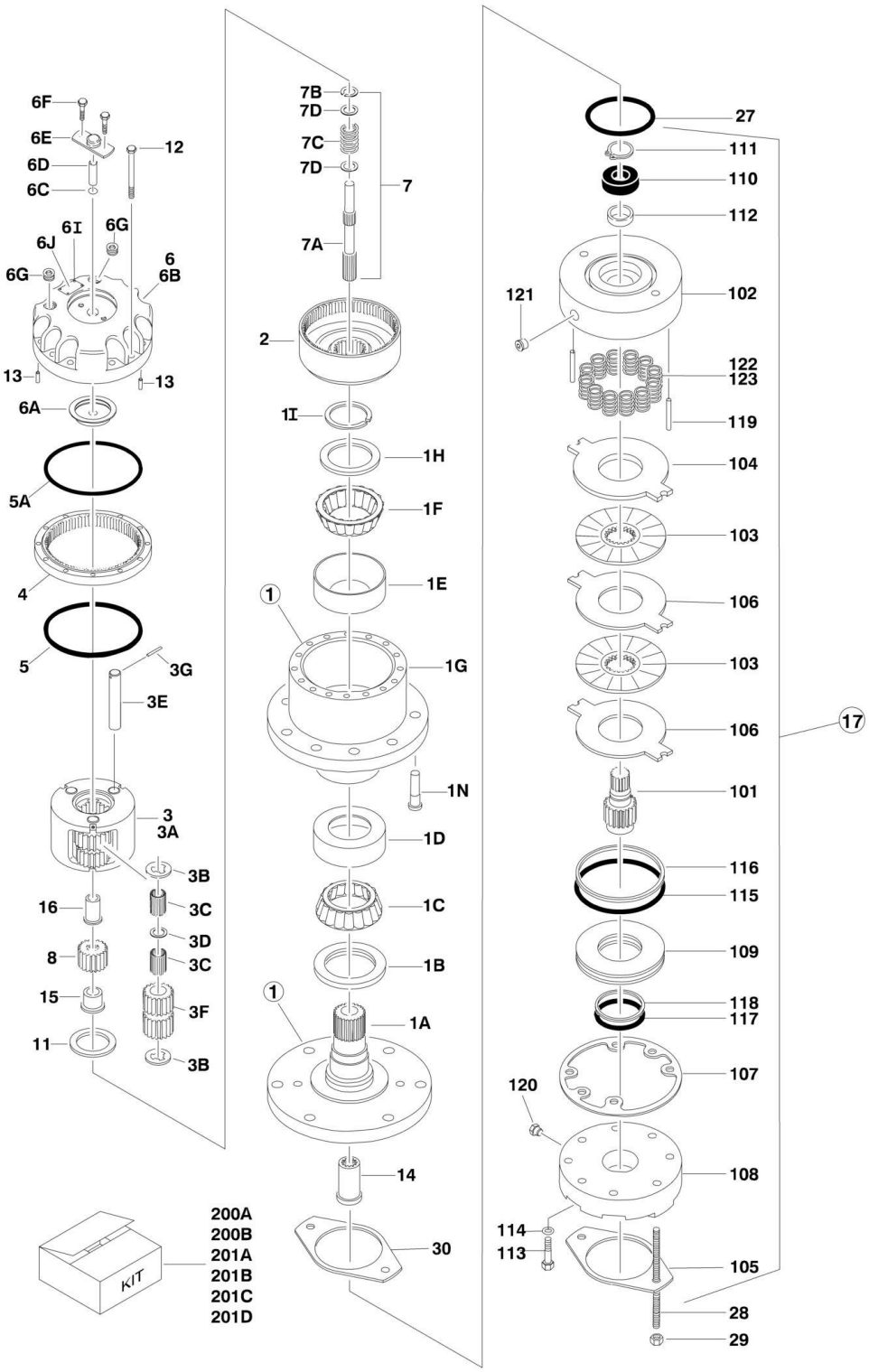


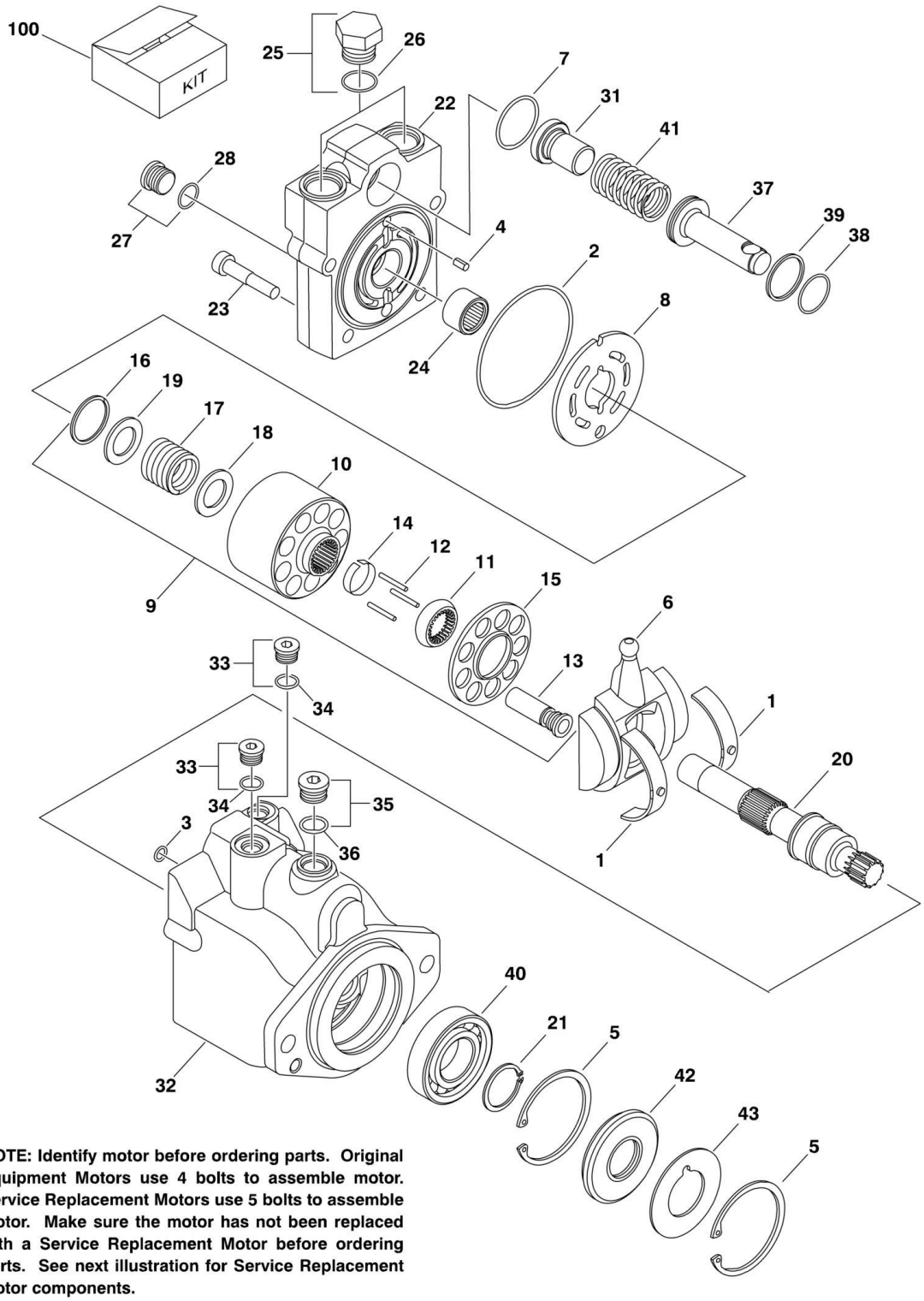
FIGURE 1-7. DRIVE HUB AND HUB WITH BRAKE ASSEMBLIES (SN 0300076633 through 0300096000)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DRIVE HUB ASSEMBLIES**	
	2780268	Ref	**Drive Hub without Brake Assembly (4WD Front) (Includes Items 1-16)**	D
	2780267	Ref	**Drive Hub with Brake Assembly (2WD & 4WD Rear) (Includes Items 1-123)**	F
1	See Note	1	Spindle/Housing Assembly (Note: Not Available - Purchase Complete Drive Hub Assembly)	
1A	7017059	1	Spindle	
1B	7001998	1	Seal	
1C	7010429	1	Cone, Bearing (Includes Item 1D)	
1D	7010429	1	Cup, Bearing (Includes Item 1C)	
1E	7000257	1	Cup, Bearing	
1F	7000258	1	Cone, Bearing	
1G	7007601	1	Housing/Ring Gear	
1H	7000232	1	Thrustwasher	
1I	7000229	1	Ring, Retaining	
1N	7007640	9	Stud, Wheel	
2	7000246	1	Gear, Internal	
3	7024712	1	Carrier Assembly (Purchase p/n 7024712 for items 3A-3G)	
3A	See Note	NSS	Carrier (Note: Use Item 3)	
3B	See Note	NSS	Ring, Retaining (Note: Use Item 3)	
3C	See Note	NSS	Bearing, Needle (Note: Use Item 3)	
3D	See Note	NSS	Thrustwasher (Note: Use Item 3)	
3E	See Note	NSS	Shaft, Planet (Note: Use Item 3)	
3F	See Note	NSS	Gear, Planet (Note: Use Item 3)	
3G	See Note	NSS	Roll Pin (Note: Use Item 3)	
4	7000248	1	Ring Gear	
5	7000230	1	O-Ring	
5A	7017070	1	O-Ring	
6	7017090	NLA	Cover Assembly (Use p/n 70001349 Kit - Includes Items 6A-6J)	
6A	7017097	NLA	Spacer, Thrust	
6B	7017091	NLA	Plate, Cover	
6C	7017095	NLA	O-Ring	
6D	7017092	NLA	Rod, Disconnect	
6E	7017093	NLA	Cap, Disengage	
6F	0641404	2	Bolt 1/2in-20NC x 1/2in	
6G	7017094	NLA	Plug, Pipe	
6I	See Note	NSS	Rivet (Note: Not Available for Purchase)	
6J	See Note	NSS	Plate, ID (Note: Not Available for Purchase)	
7		Ref	Input Shaft Assembly	
7A	7024714	1	Shaft	
7B	7000261	1	Ring, Retaining	
7C	7000262	1	Spring	
7D	7000263	2	Spacer, Thrust	
8	7024713	1	Gear, Sun	
11	7000253	1	Thrustwasher	
12	7017067	12	Bolt	
13	7017080	4	Pin, Dowell	
14	7000206	1	Coupling	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
15	7024715	1	Spacer, Input	
16	7024716	1	Spacer, Input	
17	7024182	1	Brake Assembly (See Items 101-123 for Breakdown)	
27	7024705	1	O-Ring	
28	7024717	2	Rod, Threaded	
29	7024718	2	Nut 1/2in-13NC	
30	70005483	1	Gasket	
	7024182	Ref	**BRAKE ASSEMBLY**	
101	7024189	1	Shaft	
102	7024182	1	Housing (Note: Not Available - Purchase Complete Brake Assembly)	
103	See Note	NSS	Plate, Friction (Note: Use Item 201C)	
104	See Note	NSS	Plate, Pressure (Note: Use Item 201C)	
105	7000731	1	Gasket	
106	See Note	NSS	Plate, Outer (Note: Use Item 201C)	
107	See Note	NSS	Gasket (Note: Use Item 200B, 201C or 201D)	
108	7024191	1	Cylinder	
109	7024192	1	Piston	
110	See Note	NSS	Bearing, Ball (Note: Use Item 201D)	
111	See Note	NSS	Ring, Retaining (Note: Use Item 201D)	
112	See Note	NSS	Seal, Shaft (Note: Use Item 201D)	
113	See Note	6	Capscrew (Note: Not Available - Purchase Locally)	
114	See Note	6	Lockwasher (Note: Not Available - Purchase Locally)	
115	See Note	NSS	O-Ring (Note: Use Item 200B)	
116	See Note	NSS	Ring, Back-up (Note: Use Item 200B)	
117	See Note	NSS	O-Ring (Note: Use Item 200B)	
118	See Note	NSS	Ring, Back-up (Note: Use Item 200B)	
119	7024190	2	Pin, Dowel	
120	See Note	1	Plug (Note: Not Available - Purchase Locally)	
121	See Note	2	Plug (Note: Not Available - Purchase Locally)	
122	See Note	NSS	Spring Kit (Natural) (Note: Use Item 201B)	
123	See Note	NSS	Spring Kit (Blue) (Note: Use Item 201B)	
200		Ref	Seal Kit Options:	
200A	See Note	1	Hub Seal Kit (Note: Not Available - Purchase Individual Components)	
200B	7024194	1	Brake Seal Kit (Includes Items 105, 107 & 115-118)	
201		Ref	Repair Kit Options:	
201A	7024195	NLA	Spring Kit - 7024182 Brake (Includes 12 Natural Colored Springs) (Use p/n 7024196)	
201B	7024196	1	Brake Spring Kit (Includes 12 Natural & 2 Blue Colored Springs)	
201C	7024193	1	Brake Friction Disc Kit (Includes Items 103, 104, 106 & 107)	
201D	7024197	1	Brake Bearing Kit (Includes Items 107 & 110-112)	

FIGURE 1-8. DRIVE MOTOR ASSEMBLY (ORIGINAL EQUIPMENT - 4 BOLT ASSEMBLY)



NOTE: Identify motor before ordering parts. Original Equipment Motors use 4 bolts to assemble motor. Service Replacement Motors use 5 bolts to assemble motor. Make sure the motor has not been replaced with a Service Replacement Motor before ordering parts. See next illustration for Service Replacement Motor components.

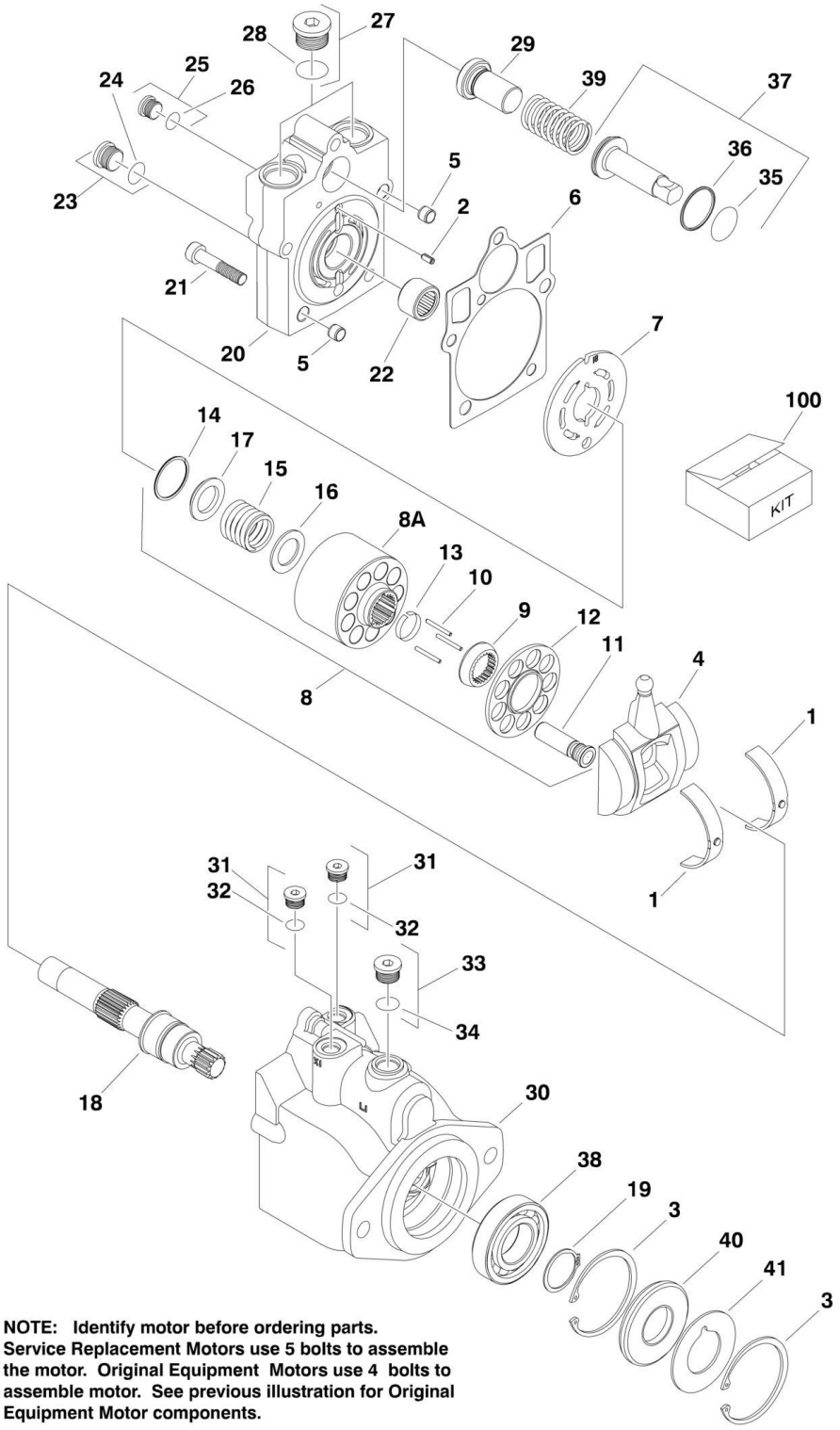
FIGURE 1-8. DRIVE MOTOR ASSEMBLY (ORIGINAL EQUIPMENT - 4 BOLT ASSEMBLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DRIVE MOTOR ASSEMBLY**	
	3160242	Ref	**2WD Rear (Prior to SN 0300076633)**	F
	3160298	Ref	**2WD Rear (SN 0300076633 through 0300096000)**	C
	3160243	Ref	**4WD Front and Rear (Prior to SN 0300076633)**	D
	3160266	Ref	**4WD Front and Rear (SN 0300076633 through 0300096000)**	D
		Ref	**NOTE: Identify motor before ordering parts. Original Equipment Motors use 4 bolts to assemble motor. Service Replacement Motors use 5 bolts to assemble motor. Make sure the motor has not been replaced with a Service Replacement Motor before ordering parts. See DRIVE MOTOR ASSEMBLY (FIELD SERVICE REPLACEMENT - 5 BOLT ASSEMBLY) for Service Replacement Motor components.**	
1	7022302	2	Bearing, Journal	
2	See Note	NSS	O-Ring (Note: Use Item 100)	
3	See Note	NSS	O-Ring (Note: Use Item 100)	
4	7007446	1	Pin	
5	7007438	2	Ring, Retaining	
6	7022305	1	Swashplate	
7	See Note	NSS	O-Ring (Note: Use Item 100)	
8		Ref	Plate, Valve Options:	
8	7022307	1	3160242 & 3160243 Motors	
8	7023908	1	3160266 & 3160298 Motors	
9		Ref	Cylinder Block Assembly Options (Includes Items 10-19):	
9	7022306	1	3160242 & 3160243 Motors	
9	7023907	1	3160266 & 3160298 Motors	
10		Ref	Block, Cylinder Options:	
10	7022306	1	3160242 & 3160243 Motors (was p/n 7022308)	
10	7023907	1	3160266 & 3160298 Motors (Note: Not Available for Purchase)	
11	7021277	1	Guide, Slipper Retainer (Prior to Motor SN S-09-50-XXXXX)	
11	70000856	1	Guide, Slipper Retainer (Motor SN S-09-50-XXXXX to Present)	
		Ref	**Note: If motor 3160242 or 3160243 has been updated to use p/n 7022306 assy, use p/n 70000856 as replacement.**	
12	7021275	3	Pin, Slipper Hold Down	
13		Ref	Piston Assembly	
13	7022309	9	3160242 & 3160243 Motors	
13	7023907	9	3160266 & 3160298 Motors (Note: Not Available for Purchase)	
14	7021276	1	Retainer, Hold Down Pin	
15	7022310	1	Retainer, Slipper	
16	7022311	1	Ring, Retaining	
17	7022312	1	Spring	
18		Ref	Washer Options:	
18	7022313	1	3160242 & 3160243 Motors	
18	7024868	1	3160266 & 3160298 Motors	
19	7022314	1	Retainer, Spring	
20		Ref	Shaft Options:	
20	7022366	1	3160242 & 3160243 Motors	
20	7023910	1	3160266 & 3160298 Motor	
21	7007439	1	Ring, Retaining	
22		Ref	Cap, End - Axial Options:	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
22	7022367	1	3160242, 3160243 & 3160266 Motors	
22	7024852	1	3160298 Motor	
23	7022368	4	Screw	
24	7021249	1	Bearing, Needle	
25	7022321	2	Plug (Includes Item 26)	
26	See Note	NSS	O-Ring (Note: Use Item 25 or 100)	
27	7022318	1	Plug (Includes Item 28)	
28	See Note	NSS	O-Ring (Note: Use Item 27 or 100)	
29		Ref	Plug Options (Includes Item 30) (Not Shown):	
29	7022318	1	3160242 & 3160243 Motors	
29	7027419	1	3160266 & 3160298 Motor	
30	See Note	NSS	O-Ring (Not Shown) (Note: Use Item 29 or 100)	
31		Ref	Seat, Spring Options:	
31	7022369	1	3160242 Motor	
31	7022372	1	3160243 & 3160266 Motors	
31	7024853	1	3160298 Motor	
32	7022370	1	Housing	
33	7022318	2	Plug (Includes Items 34)	
34	See Note	NSS	O-Ring (Note: Use Item 33 or 100)	
35	7022321	1	Plug (Includes Items 36)	
36	See Note	NSS	O-Ring (Note: Use Item 35 or 100)	
37		Ref	Piston, Servo Options:	
37	7022326	1	3160242, 3160243 & 3160266 Motors	
37	7024854	1	3160298 Motor	
38	See Note	NSS	O-Ring (Note: Use Item 100)	
39	See Note	NSS	Ring, Seal (Note: Use Item 100)	
40	7007437	1	Bearing	
41	7022326	1	Spring	
42	See Note	NSS	Seal, Lip (Note: Use Item 100)	
43	7022371	1	Washer, Support	
100	7022328	1	Seal Kit (Includes Items 2, 3, 7, 26, 28, 30, 34, 36, 38, 39 & 42)	

FIGURE 1-9. DRIVE MOTOR ASSEMBLY (FIELD SERVICE REPLACEMENT - 5 BOLT ASSEMBLY)



NOTE: Identify motor before ordering parts. Service Replacement Motors use 5 bolts to assemble the motor. Original Equipment Motors use 4 bolts to assemble motor. See previous illustration for Original Equipment Motor components.

FIGURE 1-9. DRIVE MOTOR ASSEMBLY (FIELD SERVICE REPLACEMENT - 5 BOLT ASSEMBLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DRIVE MOTOR ASSEMBLIES:**	
	3160351	Ref	**2WD (Service Replacement Motor) (Prior to SN 0300076633)**	B
	3160353	Ref	**2WD (Service Replacement Motor) (SN 0300076633 through 0300096000)**	A
	3160348	Ref	**4WD (Service Replacement Motor) (Prior to SN 0300076633)**	B
	3160354	Ref	**4WD (Service Replacement Motor) (SN 0300076633 through 0300096000)**	A
		Ref	**NOTE: Identify motor before ordering parts. Service Replacement Motors use 5 bolts to assemble the motor. Original Equipment Motors use 4 bolts to assemble motor. See DRIVE MOTOR ASSEMBLY (ORIGINAL EQUIPMENT - 4 BOLT ASSEMBLY) for Original Equipment Motor components.**	
1	7022302	2	Bearing, Journal	
2	7007446	1	Pin	
3	7007438	2	Ring, Retaining	
4	7022305	1	Swashplate	
5	See Note	2	Pin (Note: Not Available for Purchase)	
6	See Note	NSS	Gasket (Note: Use Item 100)	
7		Ref	Plate, Valve Options:	
7	7023908	1	Drive Motor p/n 3160351 & 3160348	
7	7022307	1	Drive Motor p/n 3160353 & 3160354	
8		Ref	Cylinder Block Assembly Options (Includes Items 8A & 9-17):	
8	7023907	1	Drive Motor p/n 3160351 & 3160348	
8	7022306	1	Drive Motor p/n 3160353 & 3160354	
8A	See Note	1	Block, Cylinder (Note: Not Available - Purchase Complete Cylinder Block Assembly)	
9	7021277	1	Guide, Slipper Retainer	
10	7021275	3	Pin, Slipper Hold Down	
11		Ref	Piston Assembly	
11	See Note	9	Drive Motor p/n 3160351 & 3160348 (Note: Not Available - Purchase Complete Cylinder Block Assembly)	
11	7022309	9	Drive Motor p/n 3160353 & 3160354	
12	7021276	1	Retainer, Hold Down Pin	
13	7022310	1	Retainer, Slipper	
14	7022311	1	Ring, Retaining	
15	7022312	1	Spring	
16	7024868	1	Washer	
17	7022314	1	Retainer, Spring	
18	7023910	1	Shaft	
19	7007439	1	Ring, Retaining	
20	70000797	1	Cap, End - Axial	
21	7022368	5	Screw	
22	7021249	1	Bearing, Needle	
23	2220886	1	Plug (Includes Item 24)	
24	See Note	NSS	O-Ring (Note: Use Item 23 or 100)	
25	2220883	1	Plug (Includes Item 26)	
26	See Note	NSS	O-Ring (Note: Use Item 25 or 100)	
27		Ref	Plug (Includes Item 28) Options:	
27	7027419	2	2WD	
27	2220888	2	4WD	
28	See Note	NSS	O-Ring (Note: Use Item 27 or 100)	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
29		Ref	Seat, Spring Options:	
29		Ref	2WD Options:	
29	7024853	1	Drive Motor p/n 3160351	
29	7022369	1	Drive Motor p/n 3160353	
29	7022372	1	4WD	
30	See Note	1	Housing (Note: Not Available - Purchase Complete Drive Motor Assembly)	
31	2220883	2	Plug (Items Item 32)	
32	See Note	NSS	O-Ring (Note: Use Item 31 or 100)	
33	2220886	1	Plug (Items Item 34)	
34	See Note	NSS	O-Ring (Note: Use Item 33 or 100)	
35	See Note	NSS	O-Ring (Note: Use Item 100)	
36	See Note	NSS	Ring, Seal (Note: Use Item 100)	
37	7024854	1	Piston, Servo (Includes Items 35 & 36)	
38	7007437	1	Bearing	
39	7022326	1	Spring	
40	See Note	NSS	Seal, Lip (Note: Use Item 100)	
41	7022371	1	Washer, Support	
100	7022328	1	Seal Kit (Includes Items 6, 24, 26, 28, 32, 34, 35, 36 & 40)	

FIGURE 1-10. FRAME VALVES AND SHIELDS INSTALLATION

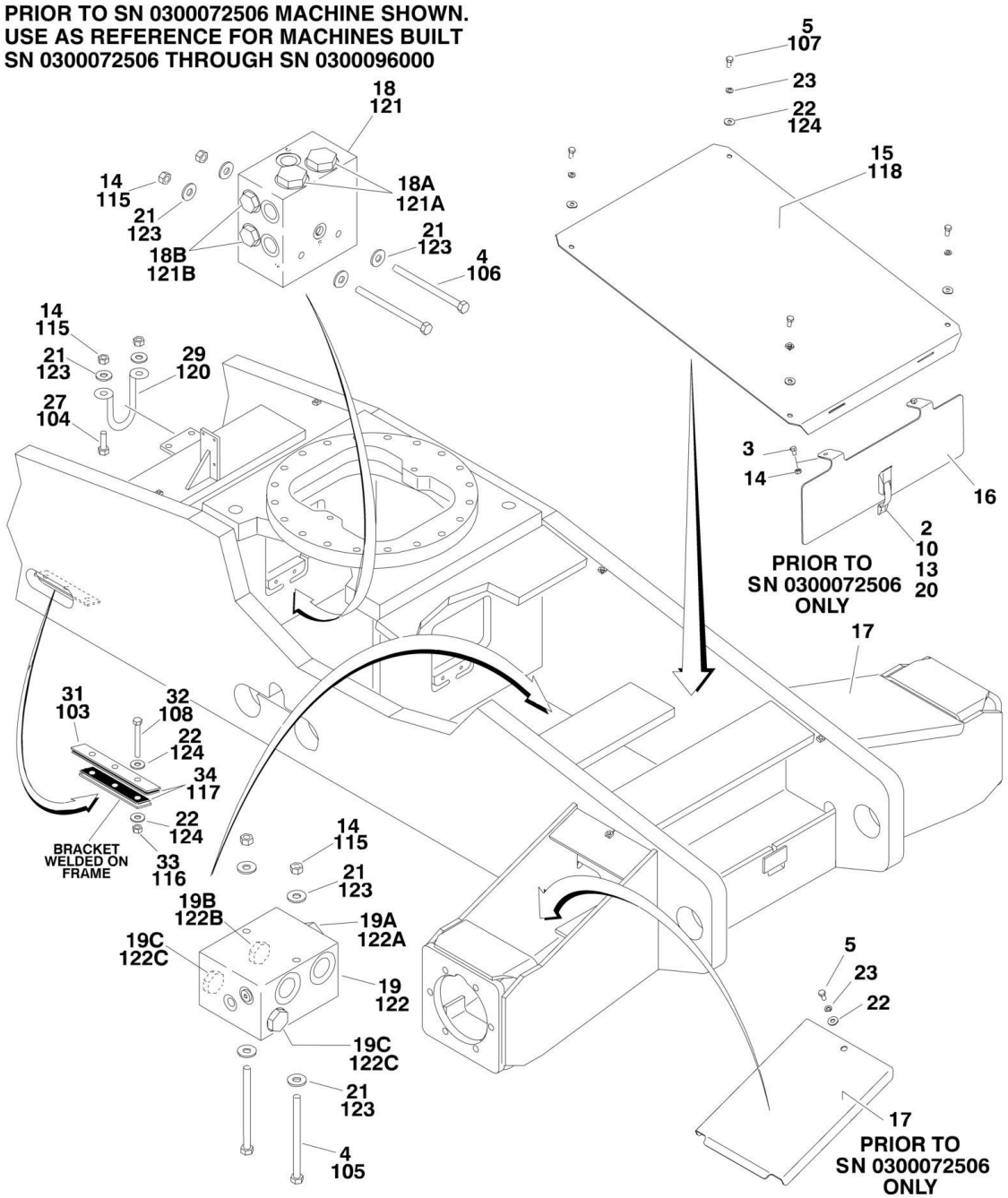


FIGURE 1-10. FRAME VALVES AND SHIELDS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**VALVES AND SHIELDS INSTALLATIONS**	
	0259145	Ref	**2WD (Prior to SN 0300072506)**	H
	0259146	Ref	**4WD (Prior to SN 0300072506)**	J
		Ref	**Note: See AXLE AND STEERING INSTALLATIONS for Oscillating Axle Lockout Valve.**	
2	0630464	2	Screw, Button	
3	0641504	2	Bolt 5/16in-18NC x 1/2in	
4	0641530	2	Bolt 5/16in-18NC x 3-3/4in	
5	0641606	6	Bolt 3/8in-16NC x 3/4in	
10	2940118	1	Latch	
13	3311005	2	Locknut #10-24NC	
14	3311505	AR	Locknut 5/16in-18NC	
15	4060979	1	Shield, Frame - Rear Top	
16	4060980	1	Shield, Frame - Rear Side	
17	4060981	2	Shield, Frame - Axle Top	
18		Ref	Flow Divider Valve Assembly Options:	
18	Not Required	0	2WD Machines	
18	4641107	1	4WD Machines	C
18A	7021654	2	Valve, Cartridge (Flow Divider)	
18A	7021655	2	Seal Kit - Flow Divider Cartridge	
18B	7017412	4	Valve, Cartridge (Check)	
18B	7012967	4	Seal Kit - Check Cartridge	
19	4641115	1	Flow Divider Valve Assembly	C
19A	7021656	1	Valve, Cartridge (Flow Divider)	
19A	7021625	1	Seal Kit - 7021656 Cartridge	
19B	7012930	1	Valve, Cartridge (Check)	
19B	2900708	1	Seal Kit - 7012930 Cartridge	
19C	7010542	2	Valve, Cartridge (Load Shuttle)	
19C	7010543	2	Seal Kit - 7010542 Cartridge	
20	4751000	2	Flatwasher #10 Regular	
21	4751500	AR	Flatwasher 5/16in Regular	
22	4751600	AR	Flatwasher 3/8in Regular	
23	4761600	6	Lockwasher 3/8in	
27	0641508	2	Bolt 5/16in-18NC x 1/2in (4WD Only)	
28	0641538	2	Bolt 5/16in-18NC x 4-3/4in	
29	3841340	1	Loop, Hose (4WD Only)	
31	0362936	2	Bar, Hose Clamp (4WD Only)	
32	0641618	6	Bolt 3/8in-16NC x 2-1/4in (4WD Only)	
33	3311605	6	Nut 3/8in-16NC (4WD Only)	
34	3340898	4	Pad, Rubber (4WD Only)	
		Ref	**VALVES AND SHIELDS INSTALLATIONS**	
	0272784	Ref	**2WD (SN 0300072506 through 0300076632)**	A
	0272926	Ref	**2WD (SN 0300076633 through 0300096000)**	A
	0272783	Ref	**4WD (SN 0300072506 through 0300076632)**	A
	0272925	Ref	**4WD (SN 0300076633 through 0300096000)**	A
		Ref	**Note: See AXLE AND STEERING INSTALLATIONS for Oscillating Axle Lockout Valve.**	
103	0362936	2	Bar, Hose Clamp (4WD Only)	
104	0641508	2	Bolt 5/16in-18NC x 1/2in (4WD Only)	
105	0641530	2	Bolt 5/16in-18NC x 3-3/4in	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106	0641538	2	Bolt 5/16in-18NC x 4-3/4in (4WD Only)	
107	0641607	6	Bolt 3/8in-16NC x 7/8in	
108	0641618	8	Bolt 3/8in-16NC x 2-1/4in (4WD Only)	
115	3311505	AR	Locknut 5/16in-18NC	
116	3311605	6	Nut 3/8in-16NC (4WD Only)	
117	3340898	4	Pad, Rubber (4WD Only)	
118	3574210	1	Shield, Frame - Rear Top	
120	3841340	1	Loop, Hose (4WD Only)	
121		Ref	Flow Divider Valve Assembly Options:	
121	Not Required	0	2WD Machines	
121	4641107	1	4WD Machines **(SN 0300072506 through 0300076632)**	C
121	4641208	1	4WD Machines **(SN 0300076633 through 0300096000)**	A
121A		Ref	Valve, Cartridge (Flow Divider) Options:	
121A	7021654	2	Cartridge for **(SN 0300072506 through 0300076632)**	
121A	7023934	2	Cartridge For **(SN 0300076633 through 0300096000)**	
121A	7021655	2	Seal Kit - 7021654 & 7023934 Cartridge	
121B		Ref	Valve, Cartridge (Check) Options:	
121B	7017412	4	Cartridge for **(SN 0300072506 through 0300076632)**	
121B	7012967	4	Seal Kit - 7017412 Check Cartridge	
121B	7023935	4	Cartridge For **(SN 0300076633 through 0300096000)**	
121B	7023936	4	Seal Kit - 7023935 Check Cartridge	
122		Ref	Flow Divider Valve Assembly Options:	
122	4641115	1	Flow Divider Valve Assembly **(SN 0300072506 through 0300076632)**	C
122	4641207	1	Flow Divider Valve Assembly **(SN 0300076633 through 0300096000)**	A
122A		Ref	Valve, Cartridge (Flow Divider) Options:	
122A	7021656	1	Cartridge for **(SN 0300072506 through 0300076632)**	
122A	7023917	1	Cartridge for **(SN 0300076633 through 0300096000)**	
122A	7021625	1	Seal Kit - 7021656 & 7023917 Cartridges	
122B		Ref	Valve, Cartridge (Check) Options:	
122B	7012930	1	Cartridge for **(SN 0300072506 through 0300076632)**	
122B	2900708	1	Seal Kit - 7012930 Cartridge	
122B	7022397	1	Cartridge for **(SN 0300076633 through 0300096000)**	
122B	7022399	1	Seal Kit - 7022397 Cartridges	
122C	7010542	2	Valve, Cartridge (Load Shuttle)	
122C	7010543	2	Seal Kit - 7010542 Cartridge	
123	4751500	AR	Flatwasher 5/16in Regular	
124	4751600	AR	Flatwasher 3/8in Regular	

FIGURE 1-11. SEMI-TRACK INSTALLATION

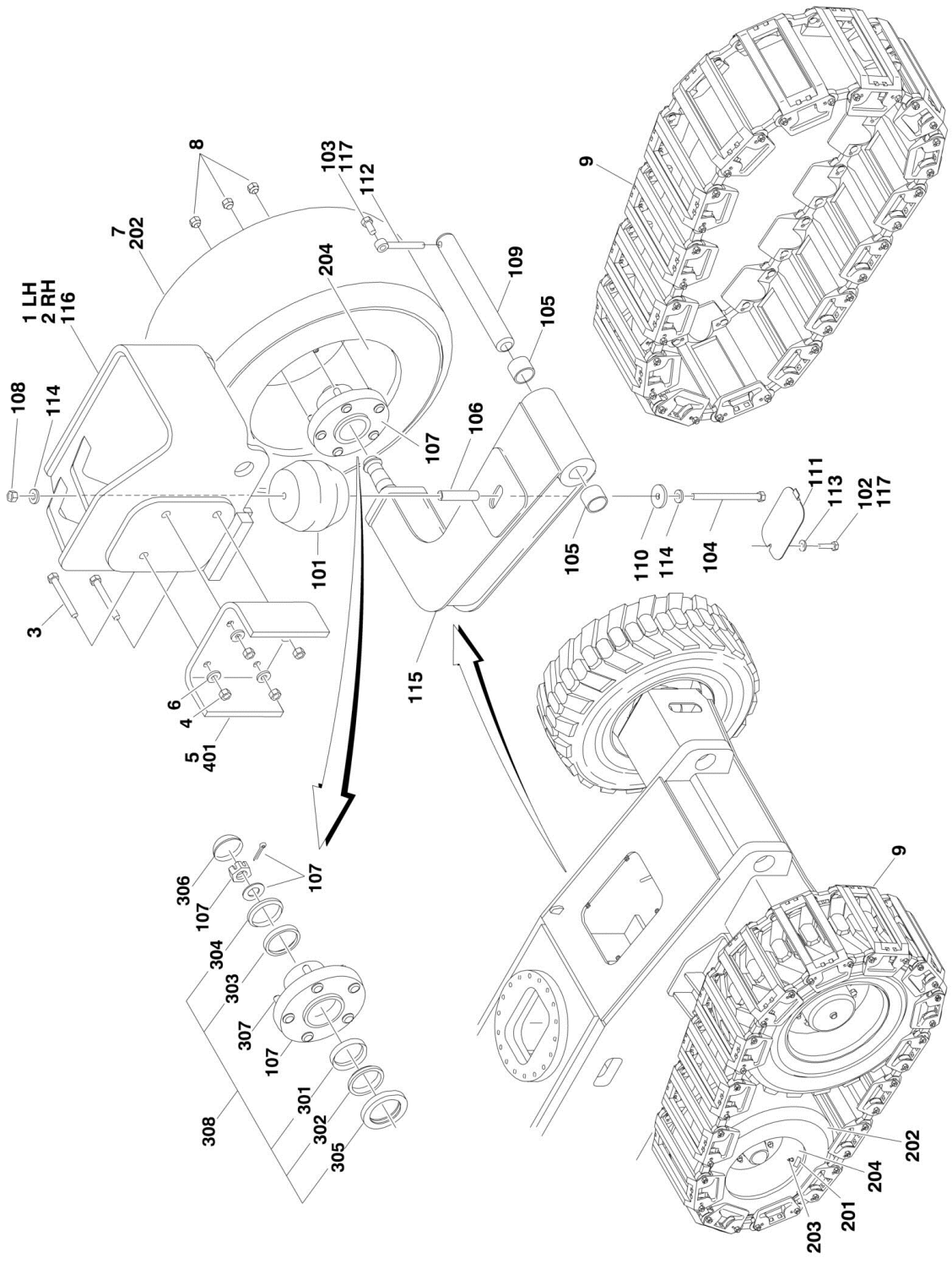


FIGURE 1-11. SEMI-TRACK INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SEMI-TRACK INSTALLATIONS**	
	0270193	Ref	**IDLER INSTALLATION**	3
1		Ref	Mount, Idler (Left) (See Items 101-116 for Breakdown)	
1	0259665	1	Mount, Idler (Left) **(Prior to SN 0300062886)**	
1	0271212	1	Mount, Idler (Left) **(SN 0300062886 through 0300096000)**	
2		Ref	Mount, Idler (Right) (See Items 101-116 for Breakdown)	
2	0259674	1	Mount, Idler (Right) **(Prior to SN 0300062886)**	
2	0271211	1	Mount, Idler (Right) **(SN 0300062886 through 0300096000)**	
3	0681822	8	Bolt 1/2in-13NC x 2-3/4in (Grade 8)	
4	3271805	8	Locknut 1/2in-13NC (Grade 8)	
5	3572032	2	Plate, Spacer	
6	4891800	8	Flatwasher 1/2in Hardened	
		Ref	**TRACK INSTALLATIONS**	
		Ref	**12in Steel Track Options:**	
	0270184	Ref	**12in Steel Track (Prior to SN 0300062886)**	2
	0271218	Ref	**12in Steel Track (SN 0300062886 through 0300096000)**	1
	0270192	Ref	**14in Steel Track**	3
7		Ref	Wheel Assembly Options (See Items 201-204 for Breakdown):	
7	0270029	2	12in Track	
7	0270030	2	14in Track	
8	3300255	10	Nut	
9		Ref	Track Options:	
9		Ref	12in Steel Track Options:	
9	0270086	1	12in Steel Track **(Prior to SN 0300062886)**	
9	0271213	1	12in Steel Track **(SN 0300062886 through 0300096000)**	
9		Ref	14in Steel Track Options:	
9	0270259	1	14in Steel Track **(Prior to SN 0300062886)**	
9	0271215	1	14in Steel Track **(SN 0300062886 through 0300096000)**	
		Ref	**IDLER MOUNT ASSEMBLIES**	
		Ref	**Left Side Options:**	
	0259665	Ref	**Left Side (Prior to SN 0300062886)**	C
	0271212	Ref	**Left Side (SN 0300062886 through 0300096000)**	A
		Ref	**Right Side Options:**	
	0259674	Ref	**Right Side (Prior to SN 0300062886)**	C
	0271211	Ref	**Right Side (SN 0300062886 through 0300096000)**	A
		Ref	**Note: Qty shown is for one side.**	
101		Ref	Absorber, Rubber Spring Options:	
101	0020005	1	Absorber, Rubber Spring **(Prior to SN 0300062886)**	
101	0020006	1	Absorber, Rubber Spring **(SN 0300062886 through 0300096000)**	
102	0641408	1	Bolt 1/4in-20NC x 1in	
103	0641808	1	Bolt 1/2in-13NC x 1in	
104		Ref	Bolt Options:	
104	0681856	1	Bolt 1/2in-13NC x 7in (Grade 8)	
104	0681872	1	Bolt 1/2in-13NC x 9in (Grade 8)	
105	0961948	2	Bearing	
106	0962293	1	Bushing, Track Spring	
107	2780221	1	Hub Assembly (See Items 301-307 for Breakdown)	
108	3271805	1	Locknut 1/2in-13NC (Grade 8)	
109	3422786	1	Pin	

SECTION 1 - FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
110	3571818	1	Plate	
111	3571833	1	Cover, Bottom	
112	3841203	1	Keeper, Pin	
113	4711400	1	Flatwasher 1/4in Narrow	
114	4891800	2	Flatwasher 1/2in Hardened	
115		Ref	Arm Weldment Options:	
115	4846113	1	Left Side	
115	4846112	1	Right Side	
116		Ref	Bracket Weldment Options:	
116		Ref	Left Side Options:	
116	4846114	1	Left Side **(Prior to SN 0300062886)**	
116	4846394	1	Left Side **(SN 0300062886 through 0300096000)**	
116		Ref	Right Side Options:	
116	4846126	1	Right Side **(Prior to SN 0300062886)**	
116	4846393	1	Right Side **(SN 0300062886 through 0300096000)**	
117	0100011	AR	Compound, Locking	
		Ref	**WHEEL ASSEMBLIES**	
	0270029	Ref	**12in Track**	B
	0270030	Ref	**14in Track**	A
		Ref	**Note: Qty shown is for one side.**	
201	1704586	1	Decal, Tire Pressure	
202		Ref	Tire Options:	
202	4520224	1	12in Track	
202	4520234	1	14in Track	
203	4640113	1	Valve, Air	
204		Ref	Rim, Wheel Options:	
204	4860218	1	12in Track	
204	4860215	1	14in Track	
	2780221	Ref	**HUB ASSEMBLY**	-
		Ref	**Note: Qty shown is for one side.**	
301	7012519	1	Cup, Inner Bearing	
302	7012520	1	Cone, Inner Bearing	
303	7012521	1	Cup, Outer Bearing	
304	7012522	1	Cone, Outer Bearing	
305	7012523	1	Seal	
306	1001102354	1	Cap, Dust (was p/n 7012524)	
307	7016360	5	Stud, Wheel 1/2in-20NF	
308	2900804		Bearing Kit (Includes Qty 1 of Items 301-305)	
	0270193	Ref	**SEMI-TRACK installations**	A
401	3572032	2	Plate, Spacer (Welded to Frame)	
		Ref	**TREAD ACCESSORIES (NOT SHOWN)**	
	0270180	Ref	**Soft Puck**	B
	0240049	64	Puck, Soft	
	0270186	Ref	**Flotation Plate**	A
	0240050	64	Plate, Flotation	
	0270187	Ref	**Ice Pick**	A
	0240047	32	Plate, Flotation	

FIGURE 1-12. TOW PACKAGE INSTALLATION

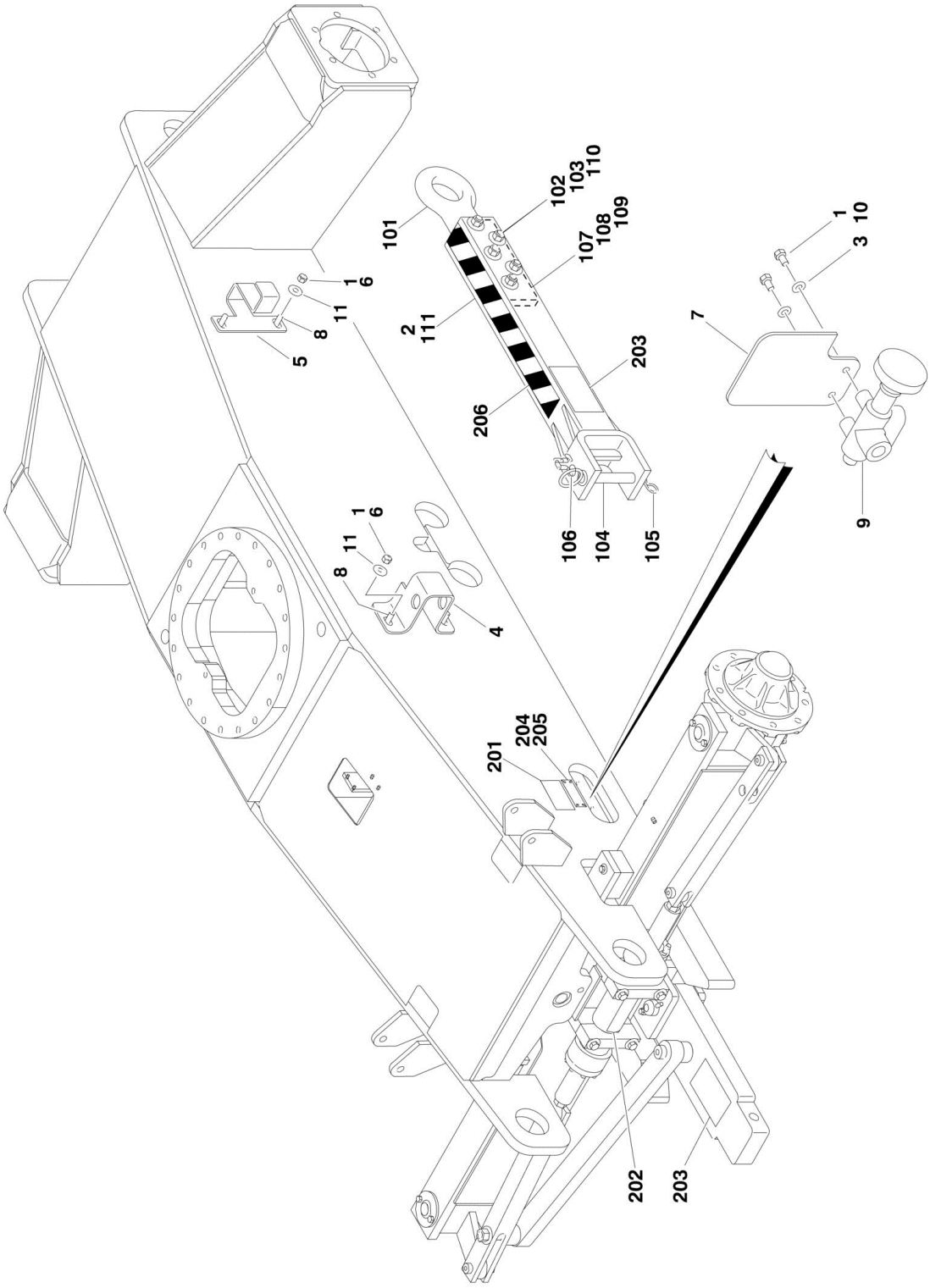


FIGURE 1-12. TOW PACKAGE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272805	Ref	**TOW BAR INSTALLATION - 2WD**	B
1	0100011	AR	Compound, Locking	
2	0363019	1	Tow Bar Assembly	
3	0641504	2	Bolt 5/16in-18NC x 1/2in	
4	0902733	1	Bracket, Storage (Front)	
5	0902734	1	Bracket, Storage (Rear)	
6	3311801	4	Nut 1/2in-13NC	
7	3572506	1	Plate, Valve Mounting (Welded on Plate)	
8	4300048	4	Stud (Welded on Plate)	
9	4640261	1	Steer/Tow Select Valve	
10	4711500	2	Flatwasher 5/16in Narrow	
11	4751800	4	Flatwasher 1/2in Wide	
	0363019	Ref	**TOW BAR ASSEMBLY**	B
101	0360406	1	Pintle, Draw Eye	
102	0682040	5	Bolt 5/8in-11NC x 5in	
103	3312005	5	Locknut 5/8in-11NC	
104	3420352	1	Pin, Towing	
105	3420372	1	Hairpin	
106	3760170	1	Ring, Split	
107	4070450	2	Shim (.07)	
108	4070560	2	Shim (.88)	
109	4070561	2	Shim (.12)	
110	4752000	10	Flatwasher 5/8in Wide	
111	0363019	1	Tow Bar Weldment	
	0272828	Ref	**TOW BAR DECAL INSTALLATION**	B
201	1703450	1	Decal - Warning	
202	1702968	1	Decal - Tow Instructions	
203	1704578	2	Decal - Crushing	
204	3250872	1	Nameplate - Steer/Tow Select Valve	
205	3820001	4	Rivet	
206	4420051	56 in/1.4m	Tape	

SECTION 2 - TURNTABLE

FIGURE 2-1. VALVES AND TILT INDICATOR INSTALLATIONS

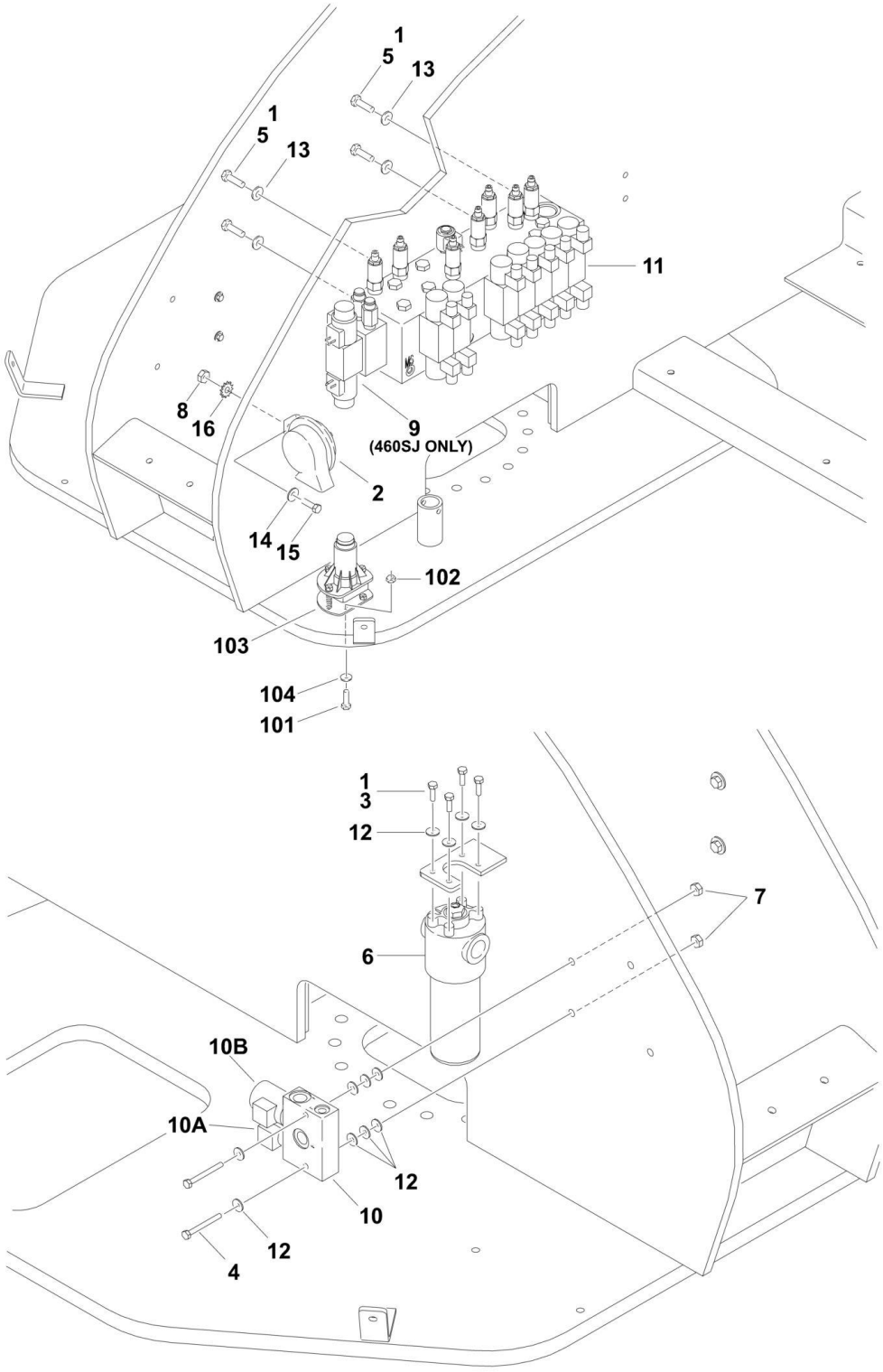


FIGURE 2-1. VALVES AND TILT INDICATOR INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**VALVES INSTALLATIONS**	
	0259640	Ref	**Valves Installations 400S (Prior to SN 0300087630)**	F
	0274600	Ref	**Valves Installations 400S (SN 0300087630 through 0300096000)**	B
	0259641	Ref	**Valves Installations 460SJ (Prior to SN 0300087630)**	F
	0274601	Ref	**Valves Installations 460SJ (SN 0300087630 through 0300096000)**	B
1	0100011	AR	Compound, Locking	
2	0140001	1	Horn	
3	0651406	AR	Bolt 1/4in-28NF x 3/4in	
4	0641420	2	Bolt 1/4in-20NC x 2-1/2in	
5	0641610	4	Bolt 3/8in-16NC x 1-1/4in	
6	2120163	1	Pressure Filter Assembly **(Prior to SN 0300087630)**	
6	2120150	1	Element, Filter	
6	7020020	1	Indicator	
6	7023206	1	O-Ring	
6	7023207	1	Ring, Back-up	
6	2120209	1	Pressure Filter Assembly **(SN 0300087630 through 0300096000)**	
6	2120210	1	Element, Filter - p/n 2120209	
6	7020020	1	Manual Indicator - p/n 2120209	
7	3311405	2	Locknut 1/4in-20NC	
8	3311505	1	Locknut 5/16in-18NC	
9		Ref	Valve Assembly - Jib	
9	Not Required	0	Valve Assembly - Jib 400S	
9	4640921	1	Valve Assembly - Jib 460SJ (See ACCESSORY VALVE ASSEMBLY for Breakdown)	
10	4641108	NLA	Dual Select Valve Assembly (Use p/n 1001099391)	
10A	7012944	1	Coil	
10A	7012941	1	Cartridge without Coil (was p/n 7012974)	
10A	7010543	1	Seal Kit - 7012974 & 701941Cartridges	
10B	7012943	1	Coil	
10B	7012995	1	Cartridge without Coil	
10B	7012518	1	Seal Kit - 7012995 Cartridge	
11		Ref	Main Control Valve Assembly Options (See MAIN CONTROL VALVE ASSEMBLY for Breakdown):	
11	4641117	NLA	Main Control Valve Assembly (Use p/n 4641499) **(Prior to SN 0300095896)**	
11	4641499	1	Main Control Valve Assembly **(SN 0300095896 through 0300096000)**	
12	4751400	14	Flatwasher 1/4in Regular	
13	4751600	AR	Flatwasher 3/8in Regular	
14	4751500	2	Flatwasher 5/16in Regular	
15	0641510	1	Bolt 5/16in-18NC x 1-1/4in	
16	4791500	1	Starwasher 5/16in	
17	4921927	1	Harness, Sub (See ELECTRICAL SECTION for Breakdown) (Not Shown) (460SJ Only)	
	0259187	Ref	**TILT INDICATOR INSTALLATION (Prior to SN 0300064404)**	A
101	0641412	2	Bolt 1/4in-20NC x 1-1/2in	
102	3311405	2	Locknut 1/4in-20NC	
103	4360495	1	Sensor, Level	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104	4751400	2	Flatwasher 1/4in Regular	

FIGURE 2-2. MAIN CONTROL VALVE ASSEMBLY

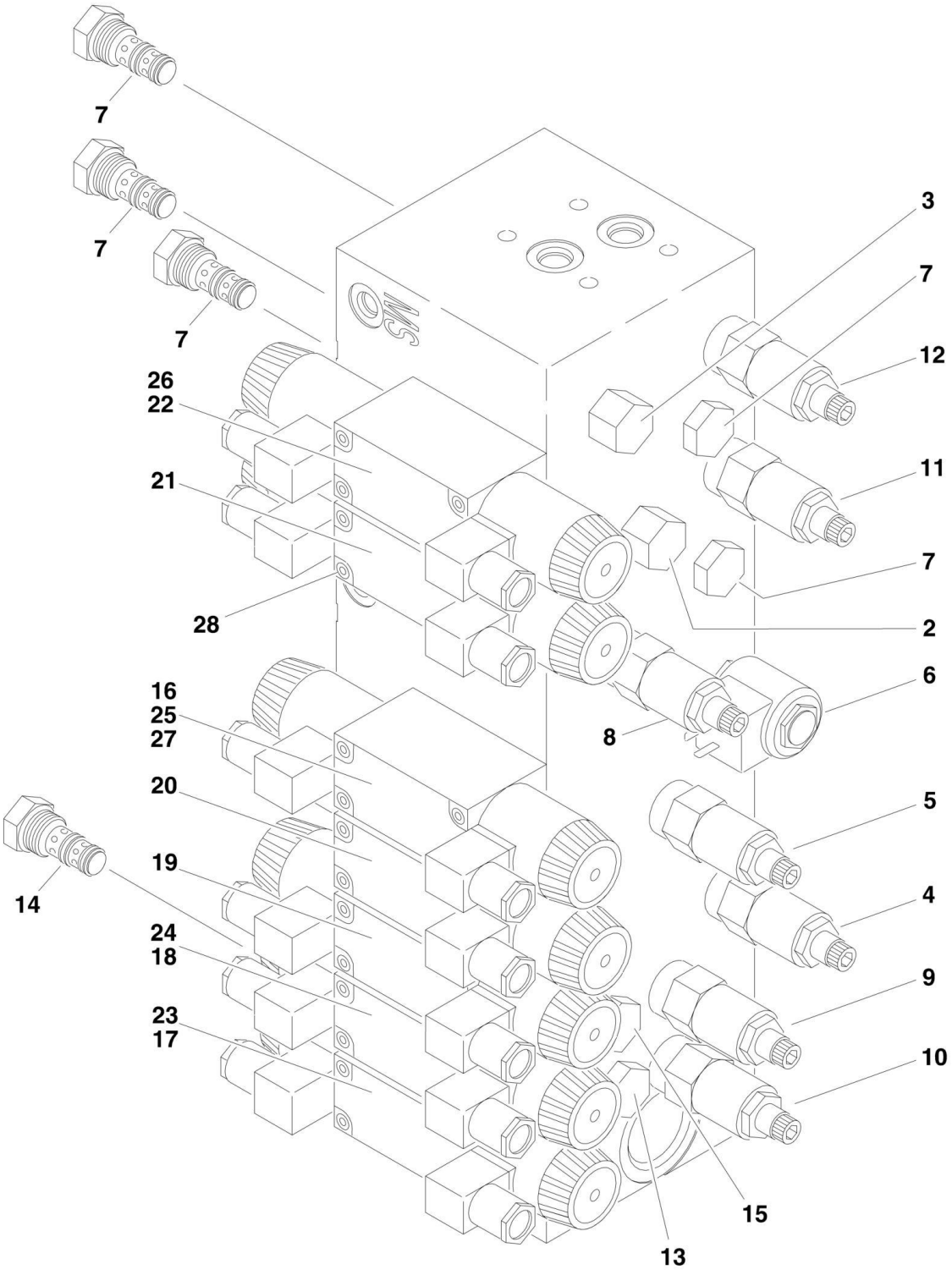


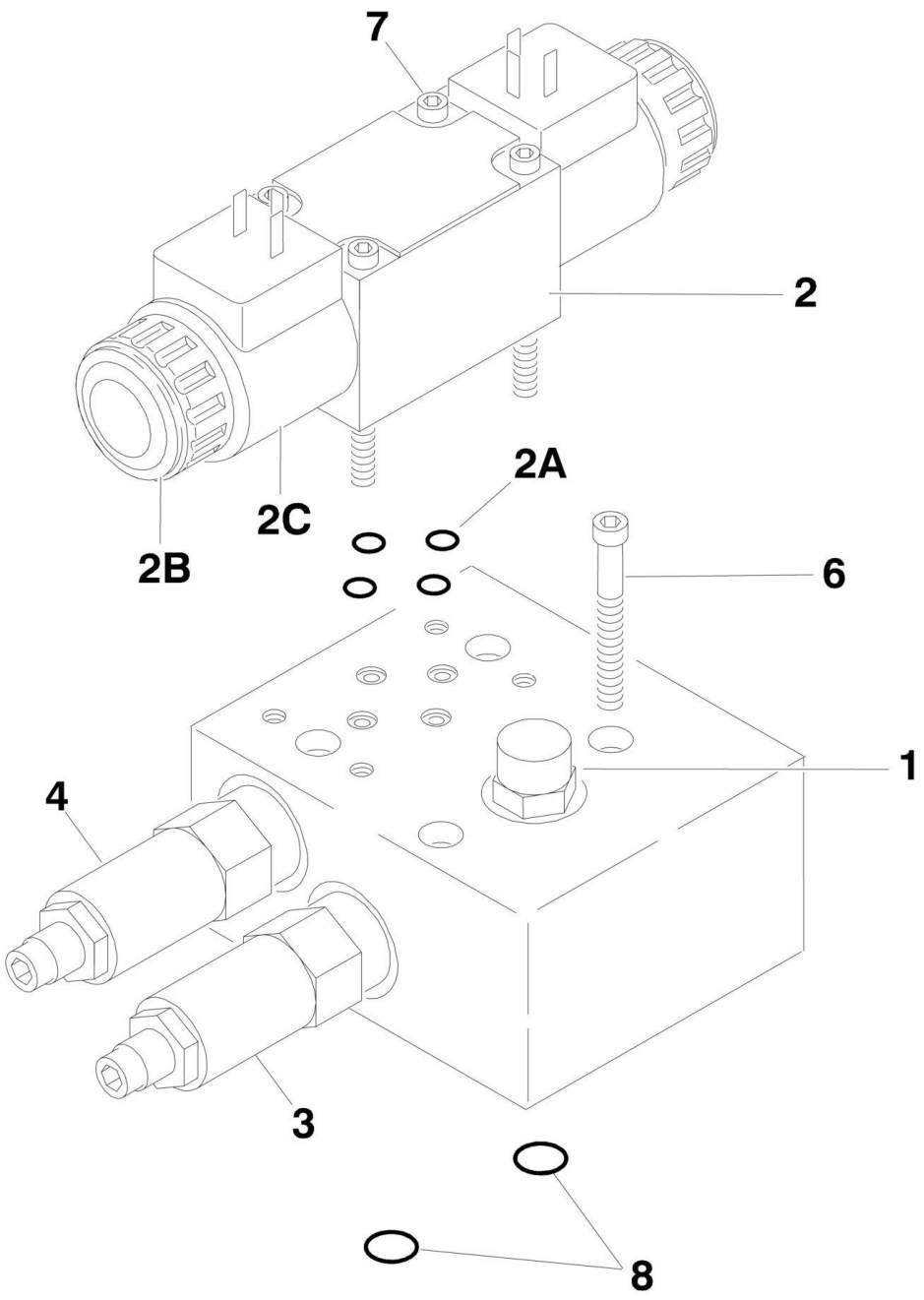
FIGURE 2-2. MAIN CONTROL VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**MAIN CONTROL VALVE ASSEMBLY**	
	4641117	Ref	**Main Control Valve Assembly (Prior to SN 0300095896)**	C
	4641499	Ref	**Main Control Valve Assembly (SN 0300095896 through 0300096000)**	A
2	7017411	1	Cartridge, Pilot Valve (Bang-Bang Controls)	
2	7012518	1	Seal Kit - 7017411 Cartridge	
3	7017411	1	Cartridge, Pilot Valve (Proportional Controls)	
3	7012518	1	Seal Kit - 7017411 Cartridge	
4	7021647	1	Cartridge, Relief Valve (Bang-Bang Main)	
4	7012998	1	Seal Kit - 7021647 Cartridge	
5	7017422	1	Cartridge, Relief Valve (Proportional Main)	
5	7012998	1	Seal Kit - 7017422 Cartridge	
6	7017410	1	Cartridge without Coil (Proportional Dump)	
6	7012967	1	Seal Kit - 7017410 Cartridge	
6	7012944	1	Coil	
7	7010542	5	Cartridge, Load Shuttle Valve	
7	7010543	5	Seal Kit - 7010542 Cartridge	
8	7017422	1	Cartridge, Relief Valve (Steer)	
8	7012998	1	Seal Kit - 7017422 Cartridge	
9	7017427	1	Cartridge, Relief Valve (Platform)	
9	7012998	1	Seal Kit - 7017427 Cartridge	
10	7017428	1	Cartridge, Relief Valve (Platform Level)	
10	7012998	1	Seal Kit - 7017428 Cartridge	
11	7021648	1	Cartridge, Relief Valve (Lift Down)	
11	7012998	1	Seal Kit - 7021648 Cartridge	
12	7017428	1	Cartridge, Relief Valve (Swing)	
12	7012998	1	Seal Kit - 7017428 Cartridge	
13	7012914	1	Cartridge, Pilot Check Valve (Platform Level)	
13	7012918	1	Seal Kit - 7012914 Cartridge	
14	7012914	1	Cartridge, Pilot Check Valve (Platform Level)	
14	7012918	1	Seal Kit - 7012914 Cartridge	
15	7012975	1	Cartridge, Check Valve (Platform Rotate)	
15	7012967	1	Seal Kit - 7012975 Cartridge	
16		Ref	Control Valve Assembly (Steer) Options:	
16	7021365	1	Valve Assembly **(Prior to SN 0300095896)**	
16		Ref	Repair Components:	
16	7012773	1	Seal Kit - 7021365 Valve	
16	7021375	2	Nut	
16	7021376	2	Coil	
16	70001256	1	Valve Assembly **(SN 0300095896 through 0300096000)**	
16		Ref	Repair Components:	
16	70001256	1	Seal Kit (Note: Not Available for Purchase)	
16	70001256	2	Nut (Note: Not Available for Purchase)	
16	70001256	2	Coil (Note: Not Available for Purchase)	
17		Ref	Control Valve Assembly (Platform Level) Options:	
17	7021373	1	Valve Assembly **(Prior to SN 0300095896)**	
17		Ref	Repair Components:	
17	7012773	1	Seal Kit - 7021373 Valve	
17	7021375	2	Nut	
17	7021376	2	Coil	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17	7012799	1	Lanyard Assembly	
17	70001976	1	Valve Assembly (was p/n 7012770) **(SN 0300095896 through 0300096000)**	
17		Ref	Repair Components:	
17	7012773	1	Seal Kit	
17	7021375	2	Nut	
17	7018991	2	Coil	
18	7021373	1	Control Valve Assembly (Platform Rotate) Options:	
18	7021373	1	Valve Assembly **(Prior to SN 0300095896)**	
18		Ref	Repair Components:	
18	7012773	1	Seal Kit - 7021373 Valve	
18	7021375	2	Nut	
18	7021376	2	Coil	
18	7012799	1	Lanyard Assembly	
18	70001976	1	Valve Assembly (was p/n 7012770) **(SN 0300095896 through 0300096000)**	
18		Ref	Repair Components:	A
18	7012773	1	Seal Kit	
18	7021375	2	Nut	
18	7018991	2	Coil	
19		Ref	Control Valve Assembly (Telescope) Options:	
19	7021373	1	Valve Assembly **(Prior to SN 0300095896)**	
19		Ref	Repair Components:	
19	7012773	1	Seal Kit - 7021373 Valve	
19	7021375	2	Nut	
19	7021376	2	Coil	
19	7012799	1	Lanyard Assembly	
19	70001976	1	Valve Assembly (was p/n 7012770) **(SN 0300095896 through 0300096000)**	
19		Ref	Repair Components:	
19	7012773	1	Seal Kit	
19	7021375	2	Nut	
19	7018991	2	Coil	
20	7021374	1	Control Valve Assembly (Flow Control)	
20	7012773	1	Seal Kit - 7021374 Valve	
20	7021375	1	Nut	
20	7018991	1	Coil	
21	7012775	1	Control Valve Assembly (Upper Lift)	
21	7012773	1	Seal Kit - 7012775 Valve	
21	7018912	2	Nut	
21	7012772	2	Coil	
22	7012775	1	Control Valve Assembly (Swing)	
22	7012773	1	Seal Kit - 7012775 Valve	
22	7018912	2	Nut	
22	7018991	2	Coil	
23	7018900	2	Orifice (Platform Level)	
24	7023821	1	Orifice (Platform Rotate)	
25	7023822	1	Orifice (Steer)	
26	7023823	1	Orifice (Swing)	
27	7023824	2	Orifice (Steer)	
28	7018942	28	Capscrew, Socket #10-24NC x 2in	

FIGURE 2-3. ARTICULATING JIB VALVE ASSEMBLY



NOTE: TORQUE ITEMS 6 & 7 TO 60 IN/LBS.

FIGURE 2-3. ARTICULATING JIB VALVE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4640921	Ref	**ARTICULATING JIB VALVE ASSEMBLY**	D
1	7012965	1	Cartridge, Flow Control	
1	7012953	1	Seal Kit - 7012965 Cartridge	
2	7012770	1	Directional Control Valve Assembly	
2	7012773	1	Seal Kit	
2A	7018945	4	O-Ring	
2B	7018912	2	Nut	
2C	7012772	2	Coil	
3	7017421	1	Cartridge, Relief	
3	7012998	1	Seal Kit - 7017421 Cartridge	
4	7017422	1	Cartridge, Relief	
4	7012998	1	Seal Kit - 7017422 Cartridge	
5	4460499	2	Connector, DIN with Diode (Not Shown - Part of Valve Harness)	
6	7012777	4	Capscrew, Socket Head 5/16in-18NC x 2-1/4in (Used to Mount Valve Assembly)	
7	7018942	4	Capscrew, Socket Head #10-24NC x 2in	
8	7012776	2	O-Ring (Used to Mount Main Valve)	

FIGURE 2-4. TURNTABLE AND SWING DRIVE INSTALLATIONS

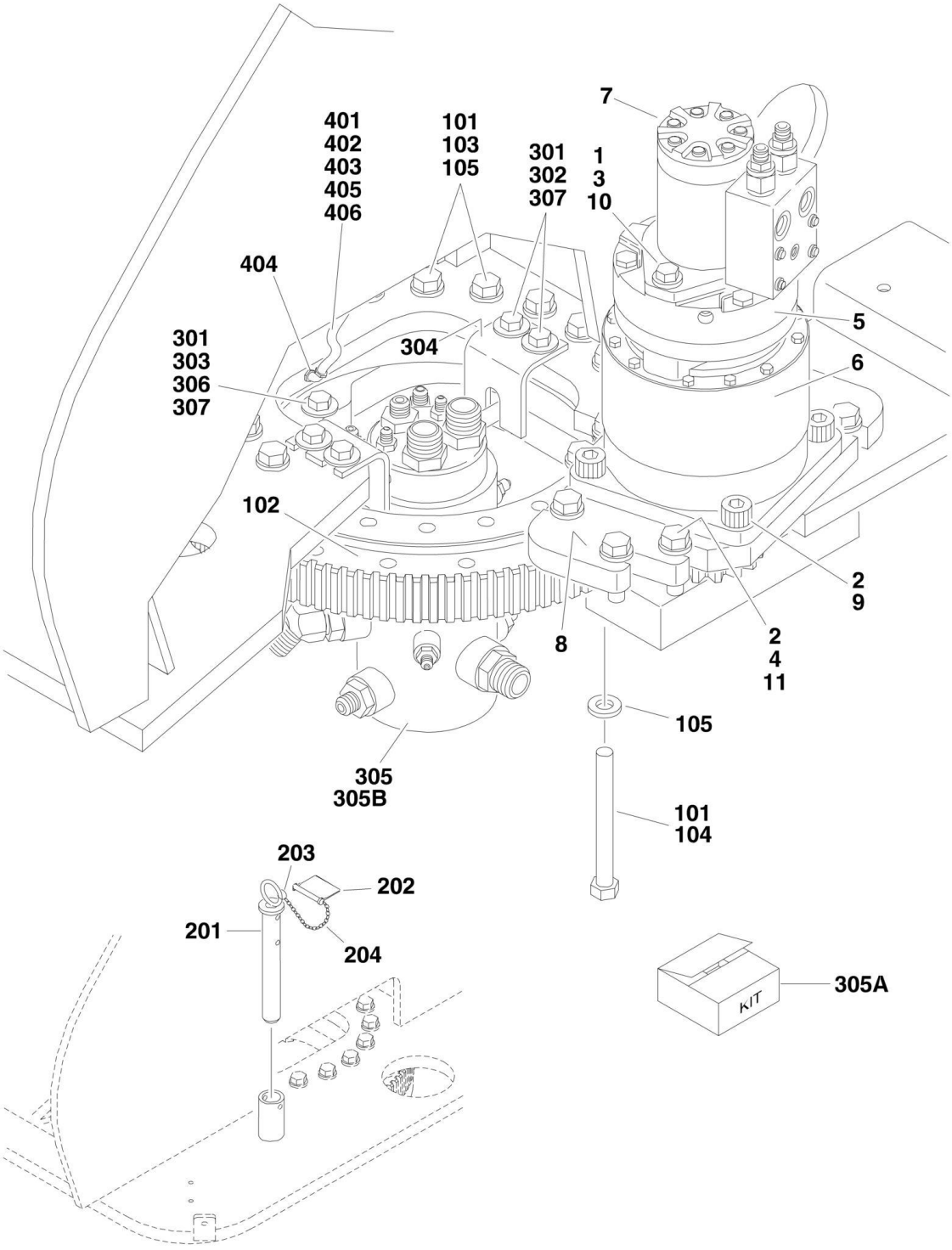


FIGURE 2-4. TURNTABLE AND SWING DRIVE INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**TURNTABLE WELDMENT**	
	4620128	Ref	Turntable Weldment **(Prior to SN 0300074573)**	
	4620141	Ref	Turntable Weldment **(SN 0300074573 through 0300096000)**	
		Ref	**SWING DRIVE INSTALLATION OPTIONS:**	
	0259875	Ref	**Swing Drive Installation (Prior to SN 0300063791)**	B
	0270326	Ref	**Swing Drive Installation (SN 0300063791 through 0300096000)**	B
1	0100011	AR	Compound, Locking	
2	0100019	AR	Compound, Locking	
3	0681832	2	Bolt 1/2in-13NC x 4in (Grade 8)	
4	0682018	8	Bolt 5/8in-11NC x 2-1/4in (Grade 8)	
5		Ref	Swing Brake Assembly Options (See SWING BRAKE ASSEMBLY for Breakdown):	
5	0920116	1	Swing Brake Assembly **(Prior to SN 0300063791)**	
5	0920119	1	Swing Brake Assembly **(SN 0300063791 through 0300096000)**	
6	2780247	1	Swing Hub Assembly (See SWING HUB ASSEMBLY for Breakdown)	
7		Ref	Swing Motor Assembly Options (See SWING MOTOR ASSEMBLY for Breakdown):	
7	3160249	1	Swing Motor Assembly **(Prior to SN 0300064259)**	
7	3160280	1	Swing Motor Assembly **(SN 0300064259 through 0300096000)**	
8	3572041	1	Plate, Mount	
9	3932224	4	Capscrew, Socket Head 3/4in-1NC x 1-1/2in	
10	4891800	2	Flatwasher 1/2in Hardened	
11	4892000	6	Flatwasher 5/8in Hardened	
	0259156	Ref	**SWING BEARING AND ROTATION BOX ASSEMBLY**	D
101	0100019	AR	Compound, Locking	
102	0440240	NLA	Bearing, Turntable (Use p/n 2915078)	
103	0682026	20	Bolt 5/8in-11NC x 3-1/4in (Grade 8)	
104	0682048	20	Bolt 5/8in-11NC x 6in (Grade 8)	
105	4892000	40	Flatwasher 5/8in Hardened	
	0259147	Ref	**TURNTABLE LOCK INSTALLATION**	A
201	4844958	1	Pin Weldment	
202	3421565	1	Pin, Snap	
203	3760170	2	Ring, Quick Release	
204	1260017	9 in/23cm	Chain	
	0259155	Ref	**ROTARY COUPLING INSTALLATION**	C
301	0100011	AR	Compound, Locking	
302	0641810	4	Bolt 1/2in-13NC x 1-1/4in	
303	0641826	2	Bolt 1/2in-13NC x 3-1/4in	
304	0902556	2	Bracket	
305	1660219	1	Coupling, Rotary	
305A	7013187	1	Seal Kit	
305B	1660219RR	1	Rebuilt Coupling	
306	3311801	2	Nut 1/2in-13NC	
307	4751800	8	Flatwasher 1/2in Regular	
	0259158	Ref	**REMOTE BEARING LUBE INSTALLATION**	B
401	2160002	1	Fitting, Grease	
402	2180344	1	Fitting, Bulkhead	
403	2220001	1	Fitting, Straight	
404	2220124	1	Fitting, Elbow	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
405	2751095	1	Hose	
406	2220273	1	Fitting, Reducer	

FIGURE 2-5. SWING BRAKE ASSEMBLY

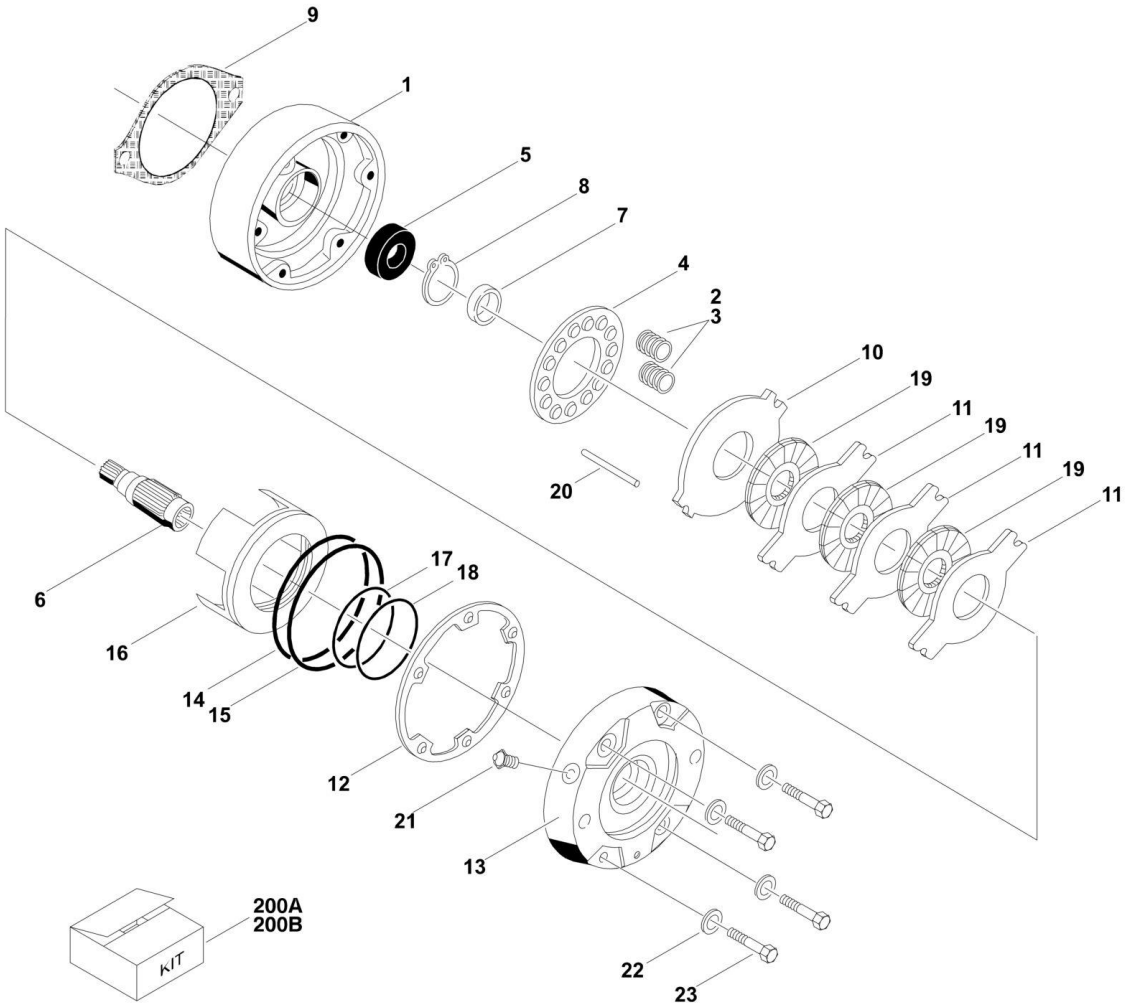


FIGURE 2-5. SWING BRAKE ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SWING BRAKE ASSEMBLIES**	
	0920116	Ref	**Swing Brake Assembly (Prior to SN 0300063791)**	B
1	See Note	NSS	Housing (Note: Use p/n 0920116)	
2	7000782	7	Spring, Compression	
3	7000798	7	Spring, Compression	
4	7003454	1	Retainer, Spring	
5	7003049	1	Bearing	
6	0920116	1	Shaft (Note: Not Available for Purchase)	
7	7003050	1	Seal, Lip	
8	7003453	1	Ring, Snap	
9	7000731	1	Gasket	
10	0920116	1	Disc, Primary (Note: Not Available for Purchase)	
11	7003459	3	Disc, Stationary	
12	7003452	1	Gasket	
13	0920116	1	Plate, Power (Note: Not Available for Purchase)	
14	7000724	1	Ring, Back-up	
15	7000725	1	O-Ring	
16	0920116	1	Piston (Note: Not Available for Purchase)	
17	7000722	1	Ring, Back-up	
18	7000723	1	O-Ring	
19	7003457	3	Disc, Rotating	
20	7003094	2	Pin, Torque	
21	7003078	1	Plug	
22	7003462	4	Flatwasher (Hardened)	
23	See Note	4	Bolt 1/2in-13NC (Note: Not Available - Purchase Locally)	
24	See Note	1	Plug, Protective (Not Shown) (Note: Not Available - Purchase Locally)	
100	0920119	Ref	**Swing Brake Assembly (Not Shown) (SN 0300063791 through 0300096000)**	B
100	7007933	1	Gasket, Mounting Face	
100	7007990	1	O-Ring, Mounting Face	
		Ref	**Note: Other then Gasket and O-Ring, Item 200B Repair Kit is only part available.**	
200		Ref	**REPAIR KIT OPTIONS**	
200A	See Note	1	Repair Kit for 0920116 Brake (Note: Purchase Individual Parts) **(Prior to SN 0300063791)**	
200B	7018612	1	Repair Kit for 0920119 Brake **(SN 0300063791 through 0300096000)**	

FIGURE 2-6. SWING HUB ASSEMBLY

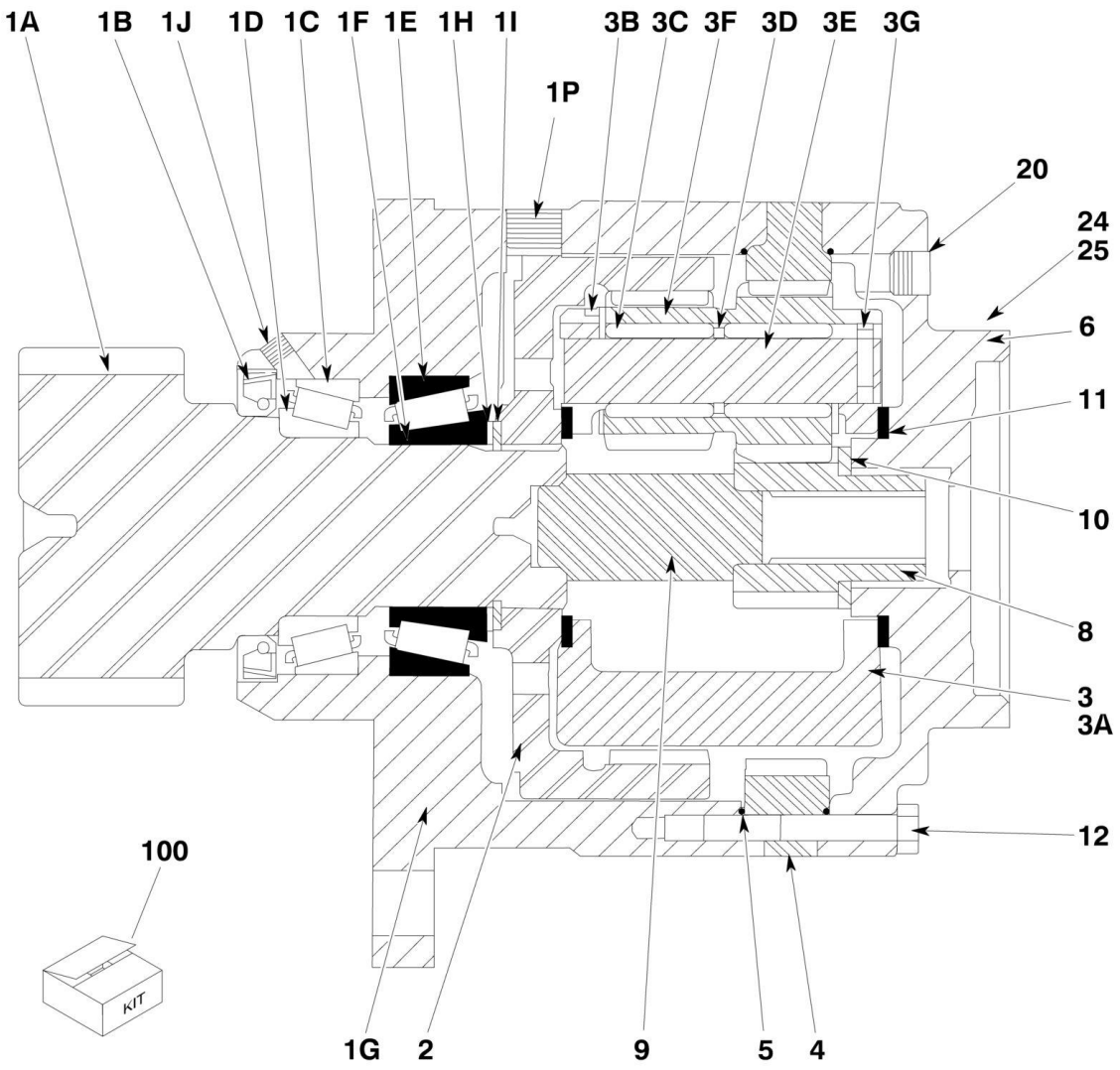


FIGURE 2-6. SWING HUB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2780247	Ref	**SWING HUB ASSEMBLY**	A
1	See Note	NSS	Housing and Shaft Assembly (Note: Use p/n 2780247)	
1A	7017064	1	Shaft, Output	
1B	7000228	1	Seal, Lip	
1C	7000255	1	Cup, Bearing	
1D	7000256	1	Cone, Bearing	
1E	7000257	1	Cup, Bearing	
1F	7000258	1	Cone, Bearing	
1G	7017065	1	Housing	
1H	7007633	1	Thrustwasher	
1I	7000229	1	Ring, Retaining	
1J	7010494	1	Plug, Pipe	
1P	See Note	2	Plug, Pipe (Note: Not Available - Purchase Locally)	
2	7000246	1	Gear, Internal	
3	7017066	1	Carrier Assembly (Includes Items 3A-3G)	
3A	See Note	NSS	Housing, Carrier (Note: Use Item 3)	
3B	See Note	NSS	Washer, Special (Note: Use Item 3)	
3C	See Note	NSS	Bearing, Needle (Note: Use Item 3)	
3D	See Note	NSS	Thrustwasher (Note: Use Item 3)	
3E	See Note	NSS	Pin (Note: Use Item 3)	
3F	See Note	NSS	Gear (Note: Use Item 3)	
3G	See Note	NSS	Pin, Retaining (Note: Use Item 3)	
4	7001988	1	Gear, Ring	
5	7000230	2	O-Ring	
6	7000209	1	Cover, Input	
8	7010488	1	Gear, Sun	
9	7000269	1	Spacer, Input	
10	7000270	1	Thrustwasher	
11	7000253	2	Thrustwasher	
12	7000217	8	Bolt	
20	2200222	1	Plug, Pipe	
24	See Note	1	Plate, ID (Note: Not Available for Purchase)	
25	7000281	2	Screw, Drive	
100	7024100	1	Seal Kit	

FIGURE 2-7. SWING MOTOR ASSEMBLY

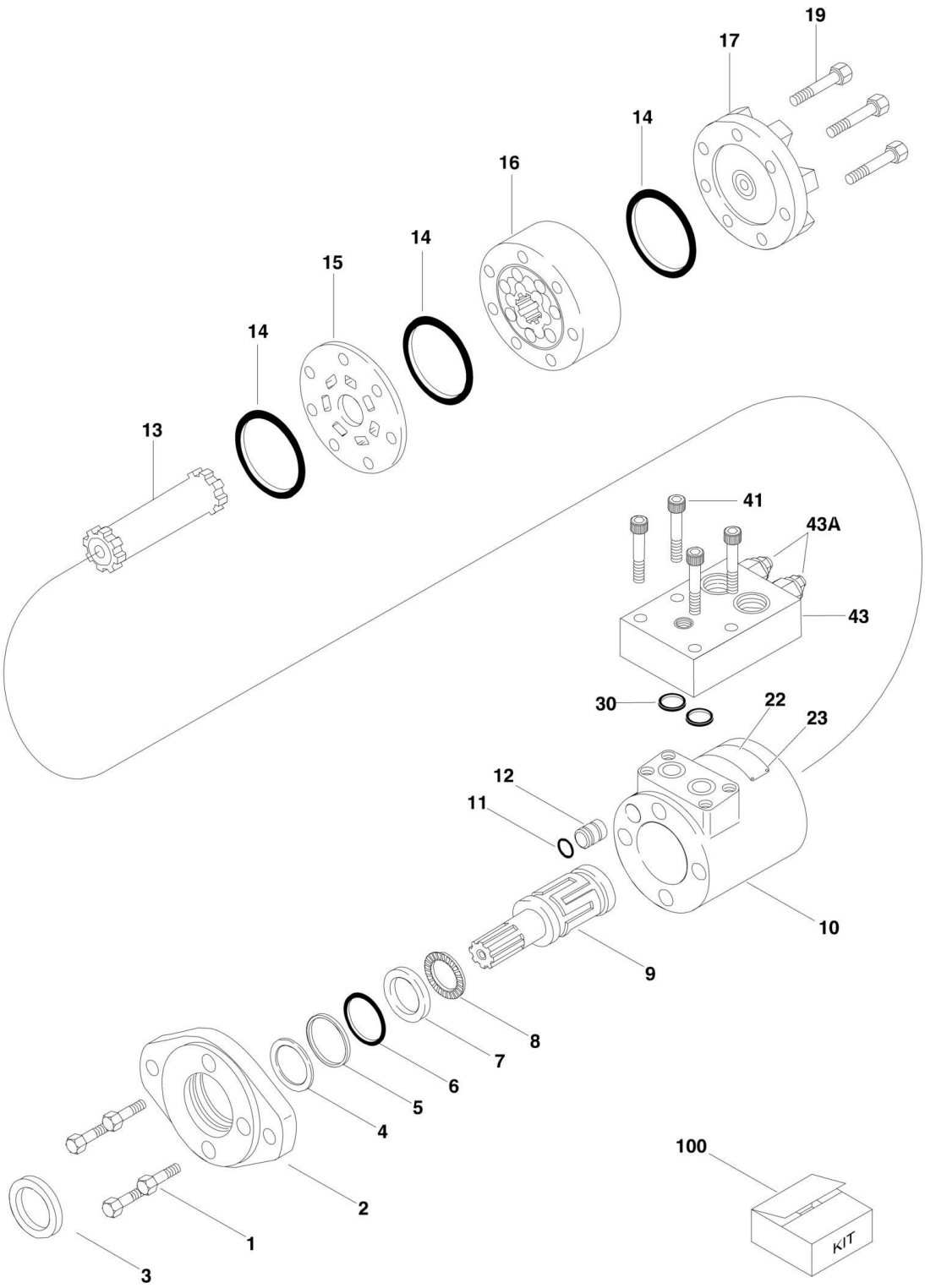
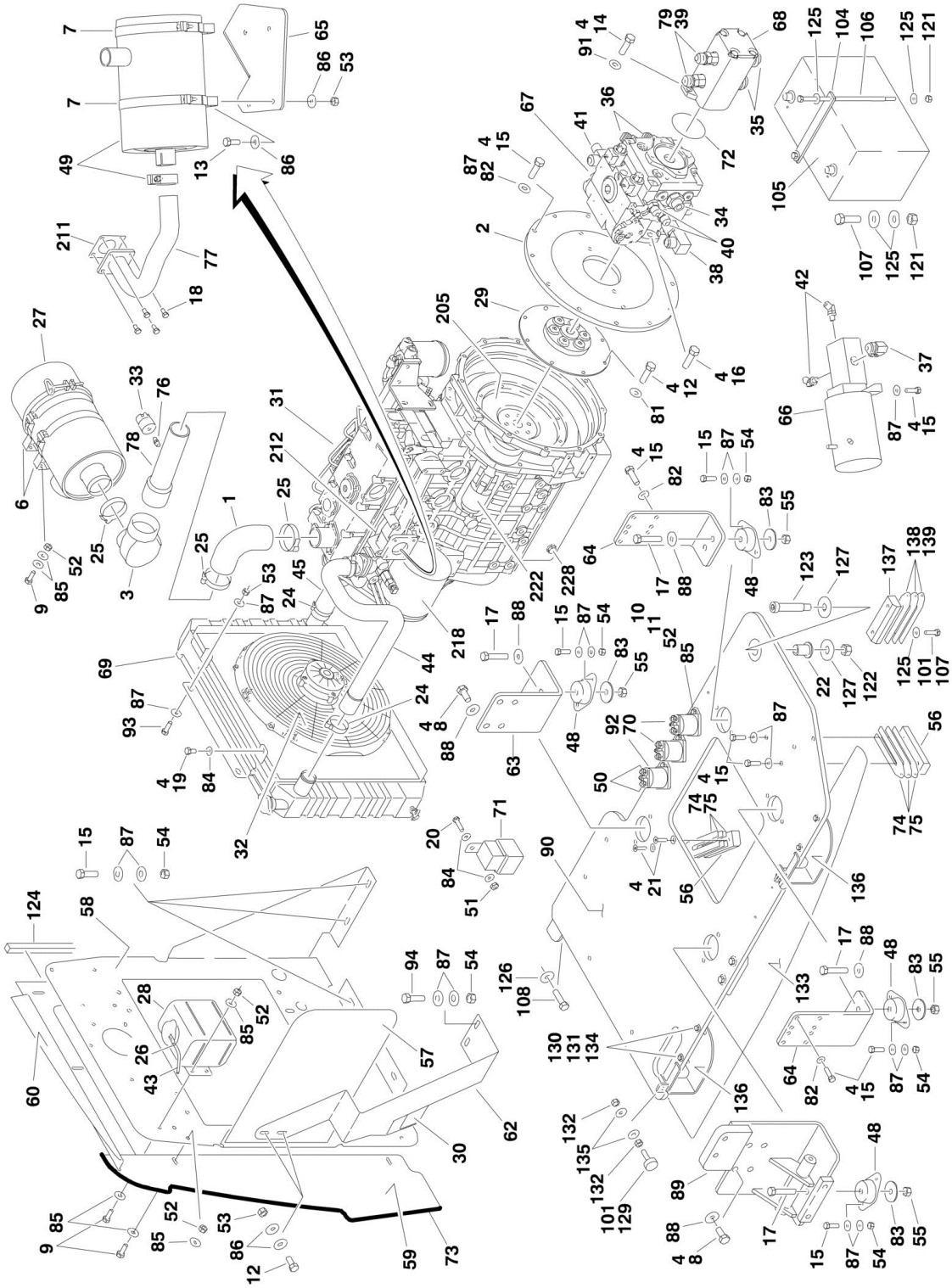


FIGURE 2-7. SWING MOTOR ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SWING MOTOR ASSEMBLY OPTIONS:**	
	3160249	Ref	**Swing Motor Assembly (Prior to SN 0300064259)**	B
	3160280	Ref	**Swing Motor Assembly (SN 0300064259 through 0300096000)**	B
1		Ref	Capscrew Options:	
1	7009995	4	3160249 Motor **(Prior to SN 0300064259)**	
1	7020357	4	3160280 Motor **(SN 0300064259 through 0300096000)**	
2	7009996	1	Flange, Mounting	
3	See Note	NSS	Seal, Exclusion (Note: Use Item 100)	
4	See Note	NSS	Washer, Back-up (Note: Use Item 100)	
5	See Note	NSS	Seal, Pressure (Note: Use Item 100)	
6	See Note	NSS	Seal (Note: Use Item 100)	
7	7002117	1	Race, Bearing	
8	7002111	1	Bearing, Thrust Needle	
9	7009998	1	Shaft, Output	
10	7020352	1	Housing	
11	See Note	NSS	O-Ring (Note: Use Item 100)	
12	7009992	1	Plug, Housing	
13	7002112	1	Drive	
14	See Note	NSS	Seal (Note: Use Item 100)	
15	7002110	1	Plate, Spacer	
16	7002125	1	Gerotor Sub-Assembly	
17	7002107	1	Cap, End	
19	7014900	7	Capscrew	
22	See Note	1	Nameplate (Note: Not Available for Purchase)	
23	See Note	2	Rivet (Note: Not Available for Purchase)	
30	See Note	NSS	O-Ring (Note: Use Item 100)	
41	7020353	4	Capscrew	
43		Ref	Cartridge, Counterbalance Valve Options:	
43	7020343	1	Cartridge, Counterbalance Valve **(Prior to SN 0300064259)**	
43	7020359	1	Cartridge, Counterbalance Valve **(SN 0300064259 through 0300096000)**	
43A	7020356	2	Cartridge (Use on p/n 7020343)	
43A	7020362	2	Cartridge (Use on p/n 7020359)	
100	2900733	1	Seal Kit - Includes Items 3-6, 11, 14 & 30	

FIGURE 2-8. CATERPILLAR ENGINE INSTALLATION



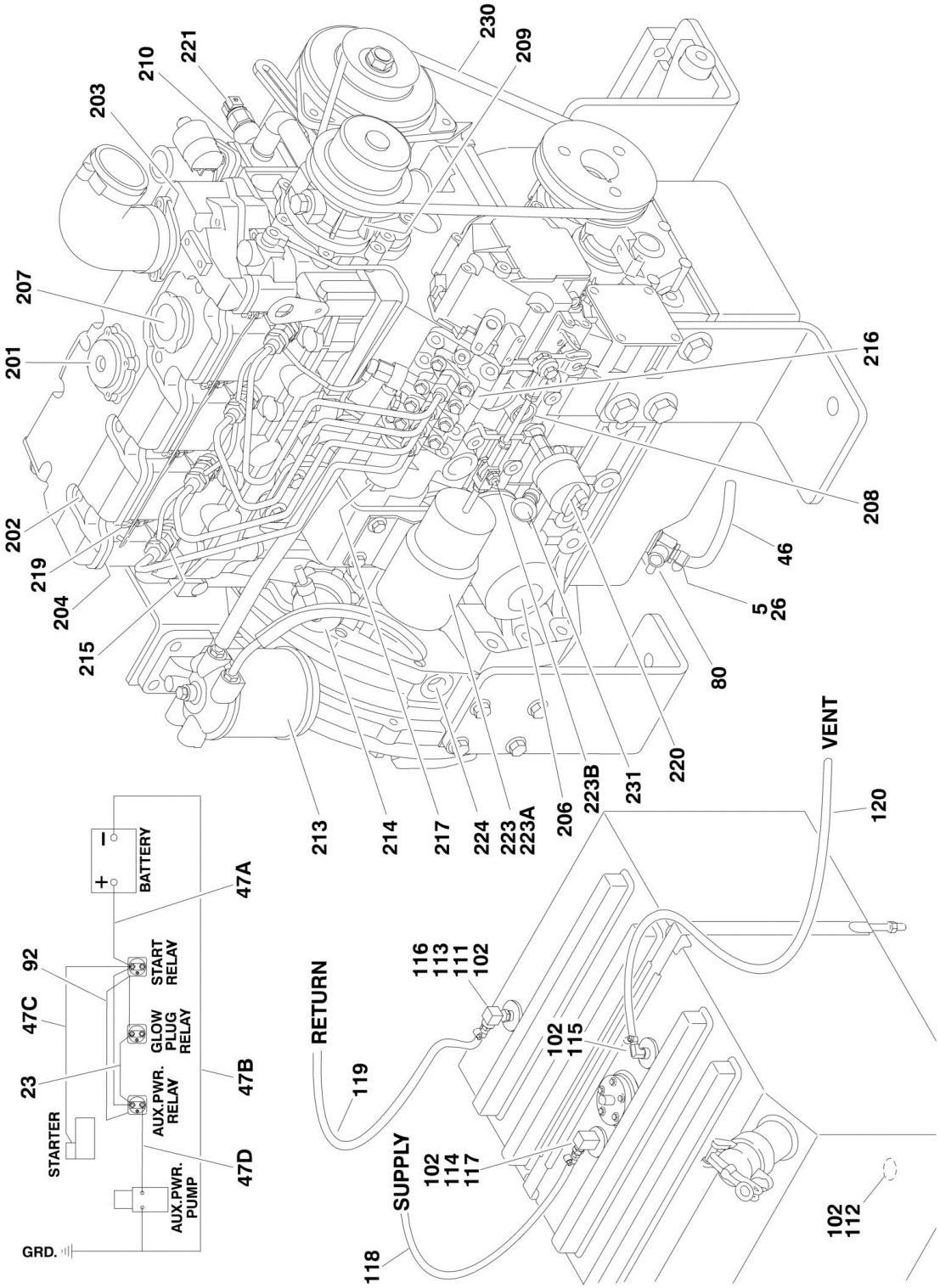

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223A
206
223B
231
220
VENT
120
BATTERY
47A
START RELAY
92
47C
GLOW PLUG RELAY
23
47B
AUX.PWR. RELAY
STARTER
47D
AUX.PWR. PUMP
GRD.
RETURN
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SUPPLY
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FIGURE 2-8. CATERPILLAR ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CATERPILLAR ENGINE ASSEMBLY**	
	0272989	Ref	**Caterpillar Engine Assembly (Prior to SN 0300086916)**	G
	2000313	Ref	**Caterpillar Engine Assembly (SN 0300086916 through 0300096000)**	A
1	2180482	1	Elbow, Rubber	
2	0080181	1	Adaptor, Pump Mounting Plate	
3	0080201	1	Elbow, Rubber	
4	0100011	AR	Compound, Locking	
5	0100020	AR	Sealant	
6	0340041	2	Band, Air Cleaner Mounting	
7	0340046	2	Band, Muffler Mounting	
8	0630569	8	Bolt M14 x 30mm	
9	0641406	13	Bolt 1/4in-20NC x 3/4in	
10	0641408	5	Bolt 1/4in-20NC x 1in	
11	0641410	1	Bolt 1/4in-20NC x 1-1/4in	
12	0641506	10	Bolt 5/16in-18NC x 3/4in	
13	0641507	4	Bolt 5/16in-18NC x 7/8in	
14	0641608	2	Bolt 3/8in-16NC x 1in	
15	0641610	36	Bolt 3/8in-16NC x 1-1/4in	
16	0641812	2	Bolt 1/2in13NC x 1-1/2in	
17	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
18	0700808	4	Bolt M8 x 16mm	
19	0721004	4	Screw #10-24NC x 1/2in	
20	0721006	1	Screw #10-24NC x 3/4in	
21	0741610	2	Screw, Countersunk 3/8in-16NC x 1-1/4in	
22	0962172	1	Bushing, Flanged	
23	1060904	1	Cable, Jumper	
24	1320012	4	Clamp	
25	1320016	4	Clamp	
26	1320022	3	Clamp	
27	1340060	1	Air Cleaner Assembly	
27	7012664	1	Element, Air Cleaner	
28	1580011	1	Container, Overflow	
29	1660255	1	Pump, Coupling	
30	1703162	2	Decal - Fan Blade	
31	2000195	1	Caterpillar Engine Assembly	
32	2060032	1	Fan, Electric	
33	2180798	1	Fitting, Indicator Restriction **(Prior to SN 0300086916)**	
34	2220376	1	Fitting, Straight **(Prior to SN 0300086916)**	
35	2220479	2	Fitting, Straight **(Prior to SN 0300086916)**	
36	2220498	2	Fitting, Elbow **(Prior to SN 0300086916)**	
37	2220567	1	Fitting, Elbow	
38	2220578	1	Fitting **(Prior to SN 0300086916)**	
39	2220810	2	Fitting, Reducer **(Prior to SN 0300086916)**	
40	2220947	2	Fitting, Straight **(Prior to SN 0300086916)**	
41	2221041	1	Fitting, Tee **(Prior to SN 0300086916)**	
42	2221045	2	Fitting	
43	2720058	4 in/10cm	Hose	
44	2720507	NLA	Hose, Radiator (Top) (Note: Use 1001102308 Kit - Includes Items Indented Below)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	1001101232	1	Hose (Block to Adapter)	
44	1001101233	1	Hose (Adapter to Radiator)	
44	1001101228	1	Adapter	
44	1320012	2	Clamp	
45	2720508	1	Hose, Radiator (Bottom)	
46	2750532	6 in/25cm	Hose	
47	2901880	1	Battery Cable Kit	D
47A	7016843	1	Cable - Battery to Starter Relay	
47B	7016835	1	Cable - Battery and Auxiliary Pump to Ground	
47C	7016834	1	Cable - Starter Relay to Starter	
47D	7016820	1	Cable - Auxiliary Relay to Auxiliary Pump	
48	3200378	4	Mount, Motor	
49	3220113	1	Muffler	
49	70001017	1	Clamp, Muffler	
50	3300220	6	Nut, Washer	
51	3311005	1	Locknut #10-24NC	
52	3311405	19	Locknut 1/4in-20NC	
53	3311505	6	Locknut 5/16in-18NC	
54	3311605	18	Locknut 3/8in-16NC	
55	3311805	4	Locknut 1/2in-13NC	
56	3340399	2	Pad, Wear	
57	3571019	1	Plate, Air Panel	
58	3571692	1	Plate, Radiator Mounting	
59	3572502	1	Plate, Air Flow (Side)	
60	3572503	1	Plate, Air Flow (Top)	
62	3573667	1	Plate, Radiator Support	
63	3574253	1	Plate, Engine Mounting (Front)	
64	3574259	2	Plate, Engine Mounting (Rear)	
65	3574264	1	Plate, Muffler Support	
66	3600279	NLA	Auxiliary Pump Assembly (Use p/n 3600423) (See AUXILIARY PUMP ASSEMBLY for Breakdown)	
67		Ref	Piston Pump Assembly Options (See PISTON PUMP ASSEMBLY for Breakdown):	
67	3600296	1	Piston Pump Assembly **(Prior to SN 0300073424)**	
67	3600385	1	Piston Pump Assembly **(SN 0300073424 through 0300078266)**	
67	3600404	1	Piston Pump Assembly **(SN 0300078267 through 0300096000)**	
68		Ref	Gear Pump Assembly Options:	
68	3600368	1	Gear Pump Assembly (No Serviceable Parts Available) **(Prior to SN 0300078267)**	
68	3600405	1	Gear Pump Assembly (See GEAR PUMP ASSEMBLY for Breakdown) **(SN 0300078267 through 0300096000)**	
69	3620046	1	Radiator	
69	8180311	1	Cap, Radiator (was p/n 7019656)	
70	3740067	3	Relay	
71	3740080	1	Relay	
72	3790152	1	O-Ring	
73	3960389	10 ft/3m	Seal	
74	4070497	4	Shim	
75	4070498	2	Shim	
76	4360392	1	Switch, Restrictor Indicator **(Prior to SN 0300086916)**	
77	4568743	1	Pipe, Exhaust	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
78		Ref	Tube, Air Intake Options:	
78	4558765	1	Tube, Air Intake **(Prior to SN 0300086916)**	
78	4569176	1	Tube, Air Intake **(SN 0300086916 through 0300096000)**	
79	4640744	1	Valve, Check **(Prior to SN 0300086916)**	
80	4641272	1	Valve, Oil Drain	
81	4711500	8	Flatwasher 5/16in Thin	
82	4711600	18	Flatwasher 3/8in Thin	
83	4740274	4	Washer, Snubbing	
84	4751000	6	Flatwasher #10 Regular	
85	4751400	38	Flatwasher 1/4in Regular	
86	4751500	12	Flatwasher 5/16in Regular	
87	4751600	42	Flatwasher 3/8in Regular	
88	4751800	11	Flatwasher 1/2in Regular	
89	4846821	1	Mount, Motor/Generator	
90	4846852	1	Tray	
91	4891600	2	Flatwasher 3/8in Hardened	
92	4922737	1	Harness, Engine Grounding	
93	0641609	4	Bolt 3/8in-16NC x 1-1/8in	
94	0941611	2	Bolt 3/8in-16NC x 1-3/8in	
		Ref	**CATERPILLAR ENGINE INSTALLATION**	
	0272994	Ref	**Caterpillar Engine Installation (Prior to SN 0300086916)**	D
	0274605	Ref	**Caterpillar Engine Installation (SN 0300086916 through 0300096000)**	A
101	0100011	AR	Compound, Locking	
102	0100020	AR	Sealant	
104	0361810	1	Bar, Battery Hold-Down	
105	0400075	1	Battery	
106	0630541	2	Bolt, Battery	
107	0641616	3	Bolt 3/8in-16NC x 2in	
108	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
109	1320022	1	Clamp	
110	1320223	1	J-Clip	
111	2180536	1	Fitting, Straight Barbed	
112	2200222	1	Plug	
113	2220250	1	Fitting, Reducer	
114	2220273	1	Fitting, Reducer	
115	2220313	1	Fitting, Elbow Barbed	
116	2220459	1	Fitting, Elbow	
117	2220794	1	Fitting, Straight Barbed	
118	2720058	12 ft/3.7m	Hose	
119	2720271	12 ft/3.7m	Hose	
120	2750532	5 ft/1.5m	Hose	
121	3311605	3	Locknut 3/8in-16NC	
122	3312005	1	Locknut 5/8in-11NC	
123	3900255	1	Screw, Shoulder	
124	3960469	1	Seal, Foam Gasket	
125	4751600	8	Flatwasher 3/8in Regular	
126	4752000	1	Flatwasher 5/8in Regular	
127	4752200	2	Flatwasher 3/4in Regular	
128	1701505	1	Decal - Diesel Fuel (Not Shown - See DECAL SECTION)	
129	0940049	2	Bumper, Hood	
130	0641410	4	Bolt 1/4in-20NC x 1-1/4in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
131	3311405	4	Locknut 1/4in-20NC	
132	3311501	4	Nut 5/16in-18NC	
133	3572504	1	Plate	
134	4751400	8	Flatwasher 1/4in Regular	
135	4751500	4	Flatwasher 5/16in Regular	
136	4846096	2	Latch, Hood	
137	3340399	1	Pad, Wear	
138	4070498	1	Shim (16 Ga.)	
139	4070497	2	Shim (11 Ga.)	
	2000195	Ref	**CATERPILLAR ENGINE COMPONENTS**	C
201	7026848	1	Breather, Valve	
201	7026846	1	Gauze, Breather Valve	
202	7026847	4	Seal, Valve Cover Nut	
203	7026849	1	Gasket, Air Intake	
204	7026850	1	Seal, Valve Cover	
205	7026852	1	Flywheel with Starter Gear Set	
206	7026855	1	Filter, Oil	
207	7026860	1	Cap, Oil Fill	
207	7026856	1	Seal, Oil Fill Cap	
208	7026858	1	Valve, Relief	
208	7026857	1	Seal	
209	7026864	1	Pump, Water	
209	7026863	1	Gasket, Water Pump (Fits Between Pump and Pump Rear Plate)	
209	7026865	1	Gasket, Water Pump (Fits Between Pump Rear Plate and Engine Block)	
210	7026867	1	Thermostat	
210	See Note	1	Regulator, Water (Note: Not Available for Purchase)	
210	7026866	1	Gasket (Fits Between Regulator and Engine Block)	
210	7026868	1	Gasket, Thermostat (Fits Between Regulator and Hose Adapter)	
211	7026869	1	Gasket, Exhaust	
212	7026870	1	Gasket, Exhaust Manifold	
213	70001695	1	Filter Assembly	
213	7026871	1	Element, Fuel Filter	
213	7026872	2	Gasket, Fuel Filter Element	
214	7026873	1	Pump, Fuel Transfer	
214	7026874	1	Seal	
215	7026875	4	Injector, Fuel	
216	See Note	1	Pump, Fuel Injection (Note: Not Available for Purchase)	
217	70001990	1	Solenoid, Fuel Shut-Off (was p/n 7026876) (Note: P/N 70001990 includes adapter harness if required.)	
218		Ref	Alternator Options:	
218	70000544	1	Alternator (was p/n 7026877) **(Prior to SN 0300091230)**	
218	70000544	1	Alternator **(SN 0300091230 through 0300096000)**	
218	70000544	1	Kit, Alternator Conversion Kit (Includes Alternator, Adapter Harness, Alternator Bracket, Lever and Mounting Hardware)	
218	70001180	1	Bolt, Lower Pivot	
218	70001257	1	Bracket, Adjustment	
219	7026878	4	Glowplug	
220	1001097554	1	Switch, Oil Pressure (was p/n 7026844)	
221	7026840	1	Switch, Water Temperature	
221	7026882	1	Seal, Sensor	
222	7026879	1	Starter	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
223	See Note	1	Actuator/Linkage Assembly - Throttle (was p/n 1600351 which is not available as a service part. (Note: Use service replacement parts below.)	
223A	7026884		Actuator and Electrical Connector Kit	
223A	7026835	1	Connector, Actuator	
223B	7026843		Linkage Kit	
224	7026883	1	Speed Sensor Kit	
224	7026836	1	Connector, Speed Sensor	
225	7026851	1	Seal, Rear Main (Not Shown - Located on Rear of Engine Block)	
226	7026854	1	Seal, Front Main (Not Shown - Located on Front of Engine Block)	
227	7026859	1	Gasket, Oil Pan (Not Shown)	
228	7026861	1	Plug, Drain	
229	7026862	1	Gasket, Valve Bracket (Not Shown - Located on Between Valve Bracket and Head)	
230	7026880	1	Belt	
231	7026885	1	Dipstick Oil Level	
231	7026886	1	Tube, Dipstick	
231	7026881	1	O-Ring, Dipstick Tube	

FIGURE 2-9. DEUTZ ENGINE INSTALLATION (Prior to SN 0300077682)

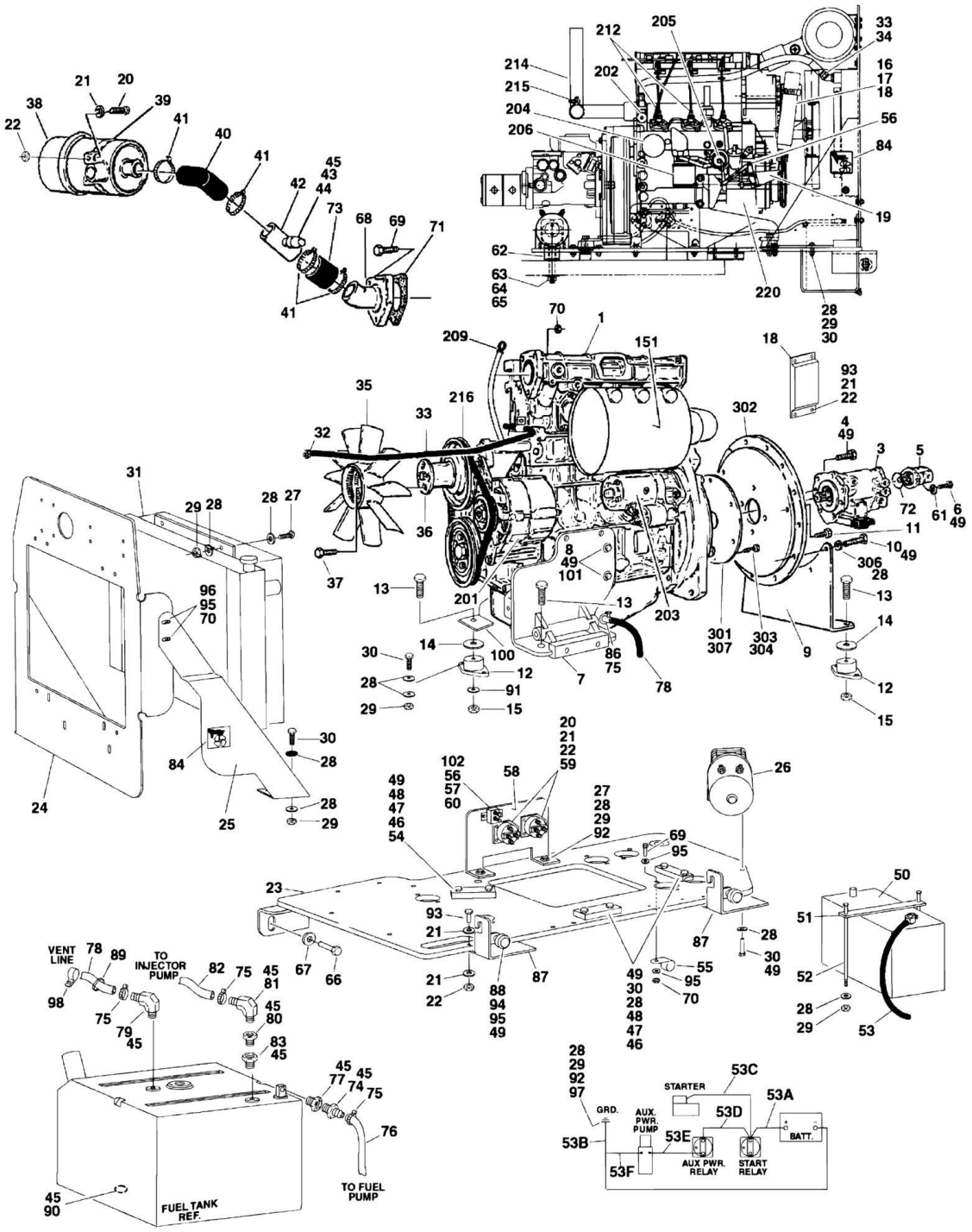


FIGURE 2-9. DEUTZ ENGINE INSTALLATION (Prior to SN 0300077682)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DEUTZ ENGINE INSTALLATIONS**	
	0259138	Ref	**Standard Machines (Prior to SN 0300064404)**	11/H
	0271245	Ref	**ADE System Machines (SN 0300064404 through 0300077682)**	13/I
1		Ref	Engine Assembly Options:	
1	2000162	1	Engine Assembly **(Prior to SN 0300064404)**	
1	2000175	1	Engine Assembly **(SN 0300064404 through 0300065459)**	
1	2000190	1	Engine Assembly **(SN 0300065460 through 0300077682)**	
3		Ref	Piston Pump Assembly Options (See PISTON PUMP ASSEMBLY for Breakdown):	
3	3600296	1	Piston Pump Assembly **(Prior to SN 0300073424)**	
3	3600385	1	Piston Pump Assembly **(SN 0300073424 through 0300077682)**	
4	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
5		Ref	Gear Pump Assembly Options:	
5	3600297	1	Gear Pump Assembly (See GEAR PUMP ASSEMBLY for Breakdown) **(Prior to SN 0300070763)**	
5	3600368	1	Gear Pump Assembly (No Service Parts Available) **(SN 0300070763 through 0300077682)**	
6	0641608	2	Capscrew, Socket Head 3/8in-16NC x 1in	
7		Ref	Plate, Front Mounting Options:	
7	3570800	1	Plate, Front Mounting **(Prior to SN 0300064404)**	
7	4846478	1	Plate, Front Mounting **(SN 0300064404 through 0300068835)**	
7	4846567	1	Plate, Front Mounting **(SN 0300068836 through 0300077682)**	
8	0701414	4	Bolt, Metric 14mm x 30mm	
9	3570801	1	Plate, Rear Mounting	
10	0701015	4	Bolt, Metric 10mm x 35mm	
11	0701012	4	Bolt, Metric 10mm x 25mm	
12	3200378	4	Mount, Rubber Motor	
13	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
14	4740274	4	Washer, Snubbing	
15	3311805	4	Locknut 1/2in-13NC	
16	0902461	1	Bracket, Throttle Mount (Part of Item 17) **(Prior to SN 0300064404)**	
17	2901637	1	Throttle Mounting Kit **(Prior to SN 0300064404)**	
18	0060033	NLA	Actuator Assembly (Use p/n 2910000) (See ELECTRICAL SECTION for Breakdown) **(Prior to SN 0300064404)**	
19	0902464	1	Bracket, Throttle Mounting (Part of Item 17) **(Prior to SN 0300064404)**	
20	0641406	8	Bolt 1/4in-20NC x 3/4in	
21	4751400	24	Flatwasher 1/4in Regular	
22	3311405	14	Locknut 1/4in-20NC	
23		Ref	Tray, Engine Options:	
23	4846080	1	Tray, Engine **(Prior to SN 0300075078)**	
23	4846809	1	Tray, Engine **(SN 0300075078 through 0300077682)**	
24	3571692	1	Plate, Radiator Mount	
25		Ref	Plate, Radiator Support Options:	
25	3570607	1	Plate, Radiator Support **(Prior to SN 0300069030)**	
25	3573667	1	Plate, Radiator Support **(SN 0300069030 through 0300077682)**	
26	3600279	NLA	Auxiliary Pump Assembly (Use p/n 3600423) (See AUXILIARY PUMP ASSEMBLY for Breakdown)	
27	0641610	6	Bolt 3/8in-16NC x 1-1/4in	

SECTION 2 - TURNTABLE

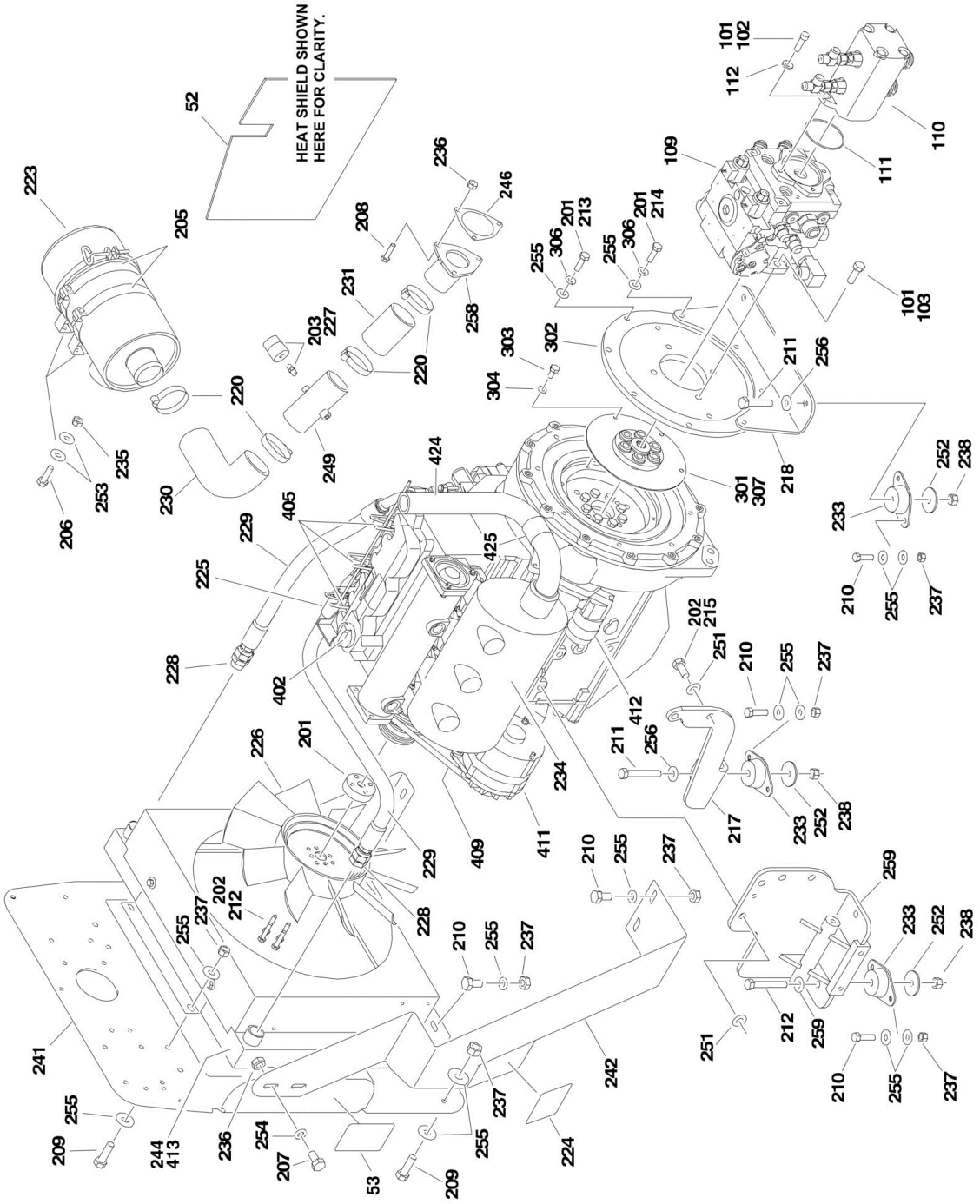
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
28	4751600	50	Flatwasher 3/8in Regular	
29	3311605	23	Locknut 3/8in-16NC	
30	0641611	18	Bolt 3/8in-16NC x 1-3/8in	
31	3620033	1	Cooler, Oil	
32	2220451	2	Fitting, Straight	
33	2720398	60 in/1.5m	Hose (Qty 2 of 30in length)	
34	2220409	1	Fitting, Elbow **(Prior to SN 0300075502)**	
35	2060025	1	Fan	
36	0080231	1	Spacer, Fan	
37	0700816	4	Bolt, Metric 8mm x 40mm	
38	1340060	1	Air Cleaner Assembly	
38	7012664	1	Element, Air Cleaner	
39	0340041	2	Band, Mounting	
40	2720434	1	Elbow	
41	1320016	4	Clamp, Hose	
42	4567495	1	Tube, Air Intake	
43	4360392	1	Switch, Restrictor Indicator	
44	2180798	1	Fitting	
45	0100020	AR	Sealant, Pipe	
46	3340399	3	Pad, Wear	
47	4070497	4	Shim 1/8in	
48	4070498	2	Shim 1/16in	
49	0100011	AR	Compound, Locking	
50		Ref	Battery Options:	
50	0400075	1	Battery (Wet)	
50	7016180	1	Battery (Dry)	
51		Ref	Battery Tie-Down Options:	
51	0360541	1	Battery Tie-Down **(Prior to SN 0300054188)**	
51	0361810	1	Battery Tie-Down **(SN 0300054188 through 0300077682)**	
52		Ref	Bolt, Tie-Down Options:	
52	0630498	2	Bolt, Tie-Down **(Prior to SN 0300064404)**	
52	0630541	2	Bolt, Tie-Down **(SN 0300064404 through 0300077682)**	
53	2901880	1	Cable Kit - Battery	D
53A	7016817	1	Cable - Battery to Starter Relay **(Prior to SN 0300063791)**	
53A	7016843	1	Cable - Battery to Starter Relay **(SN 0300063791 through 0300077682)**	
53B	7016833	1	Cable - Battery and Auxiliary Pump to Ground **(Prior to SN 0300063791)**	
53B	7016835	1	Cable - Battery and Auxiliary Pump to Ground **(SN 0300063791 through 0300077682)**	
53C	7016834	1	Cable - Starter Relay to Starter	
53D	7016803	1	Cable - Starter Relay to Auxiliary Relay **(Prior to SN 0300063791)**	
53E	7016820	1	Cable - Auxiliary Relay to Auxiliary Pump	
54	0741610	2	Screw, Flathead 3/8in-16NC x 2in	
55	1320222	1	J-Clamp	
56	4751000	3	Flatwasher #10 Regular	
57	3311005	2	Locknut #10-24NC **(Prior to SN 0300064404)**	
58	3570808	1	Plate, Relay Mounting	
59	3740067	2	Relay	
60	4360294	1	Breaker, Circuit **(Prior to SN 0300064404)**	
61	4891600	2	Flatwasher 3/8in Hardened	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
62	0962172	1	Bushing, Flanged	
63	3900255	1	Bolt Shoulder 3/4in x 3in	
64	4752200	2	Flatwasher 3/4in Regular	
65	3312005	1	Locknut 5/8in-11NC	
66	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
67	4752000	1	Flatwasher 5/8in Regular	
68	4845395	1	Air Intake Adapter Weldment	
69	0641510	4	Bolt 5/16in-18NC x 1-1/4in	
70	3311505	6	Locknut 5/16in-18NC	
71	3960407	1	Gasket	
72	3790152	1	O-Ring	
73		Ref	Coupling, Rubber Options:	
73	2720351	4 in/10cm	Coupling, Rubber **(Prior to SN 0300068062)**	
73	2720449	1	Coupling, Rubber **(SN 0300068062 through 0300077682)**	
74	2220794	1	Fitting, Barb	
75	1320022	6	Clamp, Hose	
76	2720058	12 ft/3.7m	Hose	
77	2220273	1	Fitting, Reducer	
78	2750532	7 ft/2.1m	Hose	
79	2220313	1	Fitting, Elbow	
80	2220250	1	Fitting, Reducer	
81	2220459	1	Fitting, Elbow	
82	2720271	12 ft/3.7m	Hose	
83	2180536	1	Fitting, Straight	
84	1703162	2	Decal - Fan	
85	1701505	1	Decal - Diesel Fuel (Not Shown - Located on Hood Near Tank)	
86	4640751	1	Valve, Oil Drain	
87	4846096	2	Bracket, Hood Latch	
88	0940049	2	Bumper, Hood	
89	4240099	1	Tie-Strap	
90	2200222	1	Plug, Pipe	
91	4751800	4	Flatwasher 1/2in Regular	
92	4791600	3	Starwasher 3/8in	
93	0641410	6	Bolt 1/4in-20NC x 1-1/4in	
94	3311501	4	Nut 5/16in-18NC	
95	4751500	9	Flatwasher 5/16in Regular	
96	0641506	2	Bolt 5/16in-18NC x 3/4in	
97	0641616	1	Bolt 3/8in-16NC x 2in	
98	1320223	1	Camp, Hose	
99	2820128	1	Insulation, Heat Shield (Not Shown)	
100	0902740	1	Bracket, Engine Mount (Right Side) **(SN 0300064404 through 0300077682)**	
101	4711900	6	Flatwasher 9/16in Regular **(SN 0300064404 through 0300077682)**	
		Ref	**MUFFLER INSTALLATION OPTIONS**	
151		Ref	Muffler Options:	
151	3220110	1	Standard Spark Arrestor	
151	3220112	1	Catalytic	
151	1320176	1	Clamp	
		Ref	**ENGINE COMPONENTS**	
	2000162	Ref	**Engine Components (Prior to SN 0300064404)**	
	2000175	Ref	**Engine Components (SN 0300064404 through 0300065459)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2000190	Ref	**Engine Components (SN 0300065460 through 0300077682)**	
201		Ref	Alternator Options:	
201	7000663	1	2000162 Engine (was p/n 7016329 & 7020410)	
201	7000663	1	2000175/2000190 Engines (was p/n 7020410)	
201	70002234	1	Bracket, Adjusting	
201	70000851	1	Bracket, Alternator Mounting	
201	7020464	1	Regulator, Voltage (Not Shown)	
202		Ref	Switch, Oil Pressure Options:	
202	7016330	1	2000162 Engine	
202	7020461	1	2000175/2000190 Engines	
203		Ref	Starter Options:	
203	7016332	1	2000162 Engine	
203	7020479	1	2000175/2000190 Engines	
204	7016331	1	Filter, Oil (was p/n 7016641)	
205		Ref	Pump, Fuel Supply Options:	
205	7020463	1	2000162 Engine	
205	7020463	1	2000175/2000190 Engine (was p/n 7024413)	
205	7020411	1	2000175/2000190 Engine - O-Seal Between Fuel Pump and Engine Block (Not Shown)	
206	7020023	1	Filter, Fuel	
207	7020024	1	Breather, Crankcase (Not Shown) (2000162 Engine Only)	
208		Ref	Actuator, Throttle Options (Not Shown):	
208	7016359	1	2000162 Engine	
208	7020458	1	2000175/2000190 Engines	
208	7027250	1	Spring for 7016359 Actuator	
208	7027276	2	Spring for 7020458 Actuator	
209	7020026	1	Dipstick	
209	70001002	1	Tube (2000162 Engine Only)	
210	7020027	1	Flywheel (Not Shown) (2000162/2000175 Engine Only)	
210	70000264	1	Flywheel (Not Shown) (2000190 Engine Only)	
210	7020477	1	Ring, Gear (Not Shown) (2000162/2000175 Engine Only)	
210	7024579	1	Ring, Gear (Not Shown) (2000190 Engine Only)	
211		Ref	Switch, Oil Temperature (Not Shown) Options:	
211	7020025	1	2000162 Engine	
211	7020168	1	2000175/2000190 Engines	
211	7020480	1	2000175/2000190 Engines - Seal, Temperature Switch	
212		Ref	Pump, Fuel Injection Options:	
212	7024318	3	2000162 Engine	
212	7024318	3	2000175 Engine (was p/n 7020462)	
212	7024318	3	2000190 Engine	
213		Ref	Sensor, Tach/Speed Options (Not Shown):	
213	See Note	1	2000162 Engine (Note: Not Available for Purchase)	
213	7024565	1	2000175/2000190 Engines (Was p/n 7020481)	
213	70003932	1	Spacer, Sleeve - 2000175/2000190 Engines	
214	7020169	1	Pipe, Exhaust Pipe	
215	1320176	1	Clamp, Exhaust	
216	7020408	1	V-Belt	
217	7020446	1	Timing Kit, Belt and Idler (Not Shown)	
218	7020465	1	Cap, Filler (Not Shown)	
219	7020471	3	Gasket, Exhaust Manifold (Not Shown)	
219	7020449	3	Gasket, Intake Manifold (Not Shown)	
220		Ref	Pump, Oil Options:	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
220	See Note	3	2000162 Engine (Note: Not Available for Purchase)	
220	7020467	3	2000175/2000190 Engine	
220	7020468	3	2000175/2000190 Engine - Seal Between Oil Pump and Engine Block (Not Shown)	
221	7020482	1	Gasket, Kit (Not Shown) (2000190 Engine Only)	
222	7020488	1	Connector Plug-In (Not Shown) (2000190 Engine Only)	
223	70000787	1	Support, Fan (Not Shown) (2000162 Engine Only)	
224		Ref	Gasket, Head Options (Not Shown) (2000162 Engine Only):	
224	70003039	1	Gasket - 1 Notch	
224	70003040	1	Gasket - 2 Notch	
224	70003041	1	Gasket - 3 Notch	
	0256847	Ref	**PUMP COUPLING INSTALLATION**	2
301	1660234	1	Coupling, Hayes	
302	0080163	1	Plate, Pump Adapter	
303	0700810	6	Bolt Metric 8mm x 20mm	
304	4831900	6	Lockwasher 8mm	
306	4832000	8	Lockwasher 10mm	
307	3020021	AR	Grease, Coupling	

FIGURE 2-10. DEUTZ ENGINE INSTALLATION (SN 0300077682 through 0300096000)



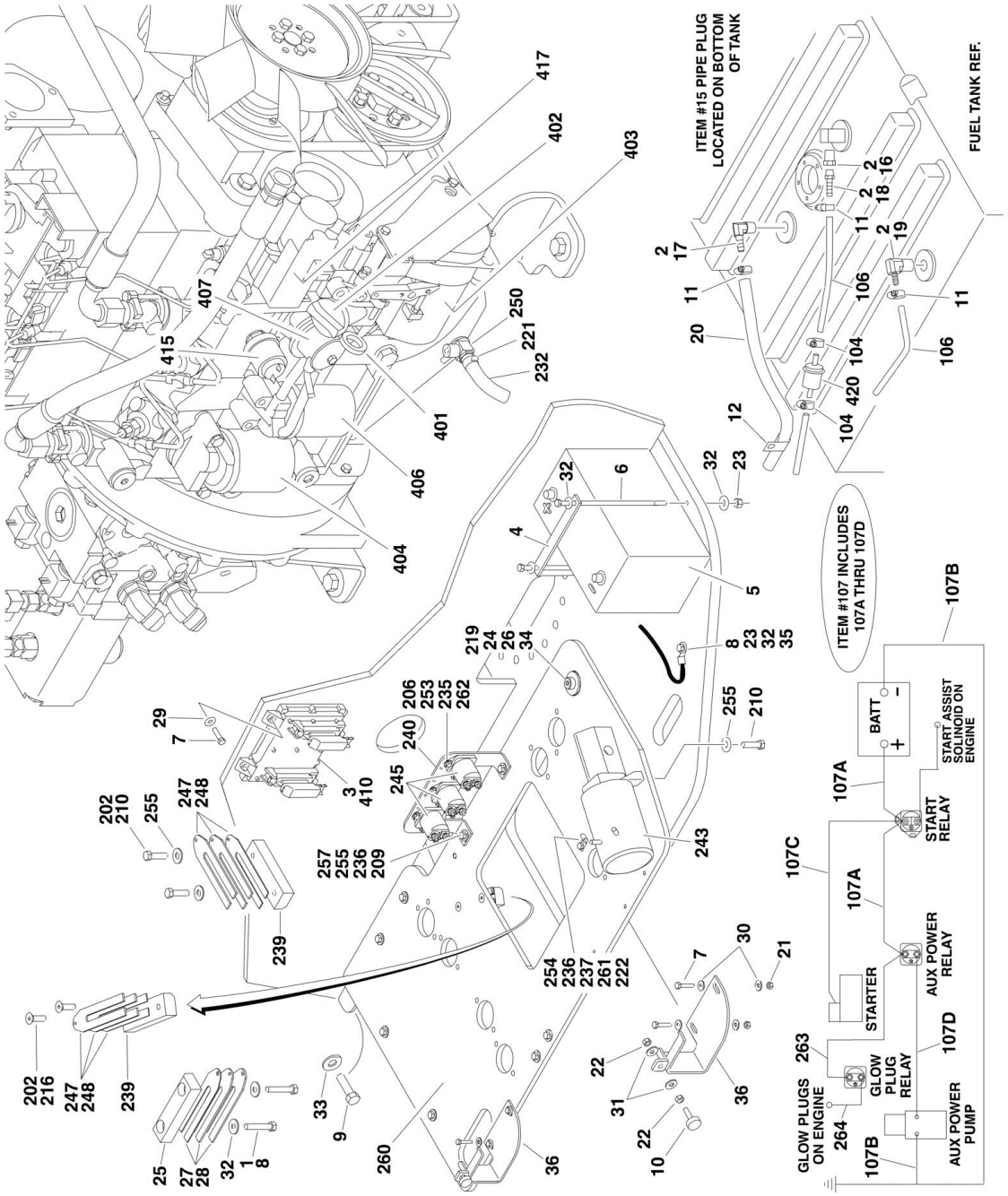

ITEM #15 PIPE PLUG LOCATED ON BOTTOM OF TANK
FUEL TANK REF.
ITEM #107 INCLUDES 107A THRU 107D
BATT
START ASSIST SOLINOID ON ENGINE
START RELAY
AUX POWER RELAY
STARTER
GLOW PLUG RELAY
AUX POWER PUMP
GLOW PLUGS ON ENGINE

FIGURE 2-10. DEUTZ ENGINE INSTALLATION (SN 0300077682 through 0300096000)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**DEUTZ ENGINE INSTALLATIONS**	
	0273944	Ref	**Deutz Engine Installations (SN 0300077682 through 0300085616)**	D
	0274334	Ref	**Deutz Engine Installations (SN 0300085617 through 0300096000)**	C
1	0100011	AR	Compound, Locking	
2	0100020	AR	Sealant, Pipe	
3	0100048	AR	Grease, Dielectric (Not Shown) **(Prior to SN 0300085617)**	
4	0361810	1	Bar, Battery Hold-Down	
5	0400075	1	Battery	
6	0630541	2	Bolt, Battery	
7	0641410	4	Bolt 1/4in-20NC x 1-1/4in	
8	0641616	3	Bolt 3/8in-16NC x 2in	
9	0642010	1	Bolt 5/8in-11NC x 1-1/4in	
10	0940049	2	Bumper, Hood	
11	1320022	3	Clamp	
12	1320223	1	J-Clip (Not Shown - Located on Fuel Vent Line)	
13	1701515	1	Decal - Diesel Fuel (Not Shown - See DECAL SECTION for Location)	
15	2200222	1	Plug, Pipe (Not Shown - Located on Bottom of Fuel Tank)	
16	2220273	1	Fitting, Reducer	
17	2220313	1	Fitting, Elbow Barbed	
18	2220794	1	Fitting, Straight Barbed	
19	2221176	1	Fitting, Elbow	
20	2750532	AR	Hose Options:	
20	2750532	7 ft/2.1m	Hose **(SN 0300077682 through 0300085616)**	
20	2750532	5 ft/1.5m	Hose **(SN 0300085617 through 0300096000)**	
21	3311405	4	Locknut 1/4in-20NC	
22	3311501	4	Nut 5/16in-18NC	
23	3311605	3	Locknut 3/8in-16NC	
24	3312005	1	Locknut 5/8in-11NC	
25	3340399	1	Pad, Wear	
26	3900255	1	Bolt, Shoulder	
27	4070498	1	Shim (16 Ga.)	
28	4070497	2	Shim (11 Ga.)	
29	4711400	4	Flatwasher 1/4in Thin	
30	4751400	8	Flatwasher 1/4in Regular	
31	4751500	4	Flatwasher 5/16in Regular	
32	4751600	8	Flatwasher 3/8in Regular	
33	4752000	1	Flatwasher 5/8in Regular	
34	4752200	2	Flatwasher 3/4in Regular	
35	4791600	1	Starwasher 3/8in	
36	4846096	2	Latch, Hood	
51	4922978	1	Harness, Start Assist (Not Shown - See ELECTRICAL SECTION for Breakdown)	
52	2820128	1	Insulation, Heat Shield	
53	1706098	1	Decal - Warning Explosion/Fire	
		Ref	**ENGINE AND PUMPS SUB-ASSEMBLY**	
	2000245	Ref	**Engine and Pumps Sub-Assembly (SN 0300077682 through 0300085616)**	B
	2000286	Ref	**Engine and Pumps Sub-Assembly (SN 0300085617 through**	B

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			0300096000)	
101	0100011	AR	Compound, Locking	
102	0641608	2	Bolt 3/8in-16NC x 1in	
103	0641812	2	Bolt 1/2in-13NC x 1-1/2in	
104	1320022	2	Clamp	
106	2720058	12 ft/3.7m	Hose	
107	2901880	1	Battery Cable Kit	D
107A	7016843	1	Cable - Battery to Starter and Auxiliary Relays (Includes Red Boot at Battery Terminal)	
107B	7016835	1	Cable - Battery and Auxiliary Pump to Ground (Includes Red Boot at Battery Terminal)	
107C	7016834	1	Cable - Starter Relay to Starter	
107D	7016820	1	Cable - Auxiliary Relay to Auxiliary Pump	
109	3600404	1	Piston Pump Assembly with Fittings Options (See PISTON PUMP ASSEMBLY for Breakdown)	
110	3600405	1	Gear Pump Assembly with Fittings (See GEAR PUMP ASSEMBLY for Breakdown)	
111	3790152	1	O-Ring	
112	4891600	2	Flatwasher 3/8in Hardened	
		Ref	**ENGINE ASSEMBLY**	
	2000247	Ref	**Engine Assembly (SN 0300077682 through 0300085616)**	F
	2000287	Ref	**Engine Assembly (SN 0300085617 through 0300092801)**	B
	2000347	Ref	**Engine Assembly (SN 0300092802 through 0300096000)**	B
201	0080231	1	Adapter, Fan Spacer	
202	0100011	AR	Compound, Locking	
203	0100020	AR	Sealant, Pipe	
205	0340041	2	Band, Air Cleaner	
206	0641406	8	Bolt 1/4in-20NC x 3/4in	
207	0641507	2	Bolt 5/16in-18NC x 7/8in	
208	0641510	AR	Bolt 5/16in-18NC x 1-1/4in	
208	0641512	AR	Bolt 5/16in-18NC x 1-1/2in	
209	0641609	6	Bolt 3/8in-16NC x 1-1/8in	
210	0641611	18	Bolt 3/8in-16NC x 1-3/8in	
211	0641820	4	Bolt 1/2in-13NC x 2-1/2in	
212	0700816	4	Bolt 8mm x 40mm	
213	0771012	4	Bolt 10mm x 25mm	
214		Ref	Bolt 10mm Options:	
214	0701015	4	Bolt 10mm (35 mm Length) **(SN 0300077682 through 0300085616)**	
214	0701014	4	Bolt 10mm (30 mm Length) **(SN 0300085617 through 0300096000)**	
215	0701414	6	Bolt 14mm x 30mm	
216	0741610	2	Screw, Countersunk 3/8-16NC x 1-1/4in	
217	0902740	1	Bracket, Engine Mounting (Right Side)	
218	0903063	1	Plate, Engine, Mounting	
219	0962172	1	Bushing, Flanged	
220	1320016	4	Clamp, Hose	
221	1320022	1	Clamp, Hose	
222		Ref	J-Clip	
222	1320223	1	J-Clip **(SN 0300077682 through 0300085616)**	
222	1320222	1	J-Clip **(SN 0300085617 through 0300092801)**	
222	1320223	1	J-Clip **(SN 0300092802 through 0300096000)**	
223	1340060	1	Air Cleaner Assembly Filter Element	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
223	7012664	1	Element, FIlter (Not Shown)	
224	1703162	2	Decal - Caution Fan Blade	
225		Ref	Engine, Deutz - F3M2011 Options:	
225	2000217	1	Engine, Deutz - F3M2011 **(SN 0300077682 through 0300085616)**	
225	2000273	1	Engine, Deutz - F3M2011 **(SN 0300085617 through 0300092801)**	
225	2000338	1	Engine, Deutz - F3M2011 **(SN 0300092802 through 0300096000)**	
226	2060025	1	Fan	
227		Ref	Fitting Options:	
227	2180798	1	Fitting **(SN 0300077682 through 0300085616)**	
227	4360392	1	Fitting (Indicator, Restriction) **(SN 0300077682 through 0300085616)**	
227	2200221	1	Fitting (Plug) **(SN 0300085617 through 0300096000)**	
228	2220451	2	Fitting, Straight	
229	2720398	2	Hose, Oil Cooler	
230	2720434	1	Elbow, Rubber	
231	2720449	1	Hose, Air Cleaner	
232	2750532	1 ft/30cm	Hose, Oil Drain	
233	3200406	4	Mount, Motor	
234		Ref	Muffler Options:	
234	3220110	1	Standard	
234	3220112	1	Catalytic	
234	1320176	1	Clamp	
235	3311405	8	Locknut 1/4in-20NC	
236	3311505	6	Locknut 5/16in-18NC	
237	3311605	20	Locknut 3/8in-16NC	
238	3311805	4	Locknut 1/2in-13NC	
239	3340399	2	Pad, Wear	
240	3570808	1	Plate, Relay Mounting	
241	3571692	1	Plate, Radiator Mounting	
242	3573667	1	Support, Radiator	
243	3600279	NLA	Auxiliary Pump Assembly (Use p/n 3600423) (See AUXILIARY PUMP ASSEMBLY for Breakdown)	
244	3620033	1	Radiator	
245	3740067	AR	Relay Options:	
245		Ref	Relay **(Prior to SN 0300092802)**	
245		Ref	Relay **(SN 0300092802 through 0300096000)**	
246	3960407	1	Gasket, Air Intake	
247	4070497	4	Shim (11 Ga.)	
248	4070498	2	Shim (16 Ga.)	
249	4567495	1	Tube, Tee	
250	4640751	1	Valve, Oil Drain	
251	4812200	6	Flatwasher 14mm	
252	4740274	4	Washer, Snubbing	
253	4751400	12	Flatwasher 1/4in Regular	
254	4751500	5	Flatwasher 5/16in Regular	
255	4751600	44	Flatwasher 3/8in Regular	
256	4751800	4	Flatwasher 1/2in Regular	
257	4791600	2	Starwasher 3/8in	
258	4845395	1	Plate, Adapter	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
259	4846567	1	Bracket, Engine Mounting (Left Side)	
260		Ref	Tray Options:	
260	4846080	1	Tray **(SN 0300077682 through 0300082439)**	
260	4846809	1	Tray **(SN 0300082440 through 0300096000)**	
261	0641510	AR	Bolt 5/16in-18NC x 1-1/4in	
261	0641608	AR	Bolt 3/8in-16NC x 1in	
262	4791400	6	Starwasher 1/4in	
263	1060904	1	Cable, Jumper Only **(SN 0300092802 through 0300096000)**	
264	4923451	1	Harness, Glow Plug Only **(SN 0300092802 through 0300096000)**	
	0256847	Ref	**PUMP COUPLING INSTALLATION**	2
301	1660234	1	Coupling, Hayes	
302	0080163	1	Plate, Pump Adapter	
303	0700810	63	Bolt Metric 8mm x 20mm	
304	4831900	6	Lockwasher 8mm	
306	4832000	8	Lockwasher 10mm Only **(SN 0300077682 through 0300085025)**	
307	3020021	AR	Grease, Coupling	
		Ref	**ENGINE COMPONENTS**	
	2000217	Ref	**Engine Components (SN 0300077682 through 0300085616)**	
	2000273	Ref	**Engine Components (SN 0300085617 through 0300092801)**	B
	2000338	Ref	**Engine Components (SN 0300092802 through 0300096000)**	B
401	7020026	1	Dipstick	
402	7020465	2	Cap, Filler	
403	7020495	1	Pump, Oil Lube	
403	7020468	1	Seal Between Oil Pump and Engine Block (Not Shown)	
404	7016331	1	Filter, Oil	
404	7027236	1	Sensor, Oil Temperature (Not Shown - Located in Rear Of Filter Mount)	
405		Ref	Pump, Injector Options:	
405	7027246	3	Series A Pump	
405	7027608	3	Series B Pump	
405	7027609	3	Series C Pump	
405	7027610	3	Series D Pump	
405	7020447	3	Gasket, Injector Pump	
406	7020023	1	Filter, Fuel	
406	70001423	1	Bracket, Fuel Filter	
407	70000916	1	Pump Fuel Supply (was p/n 7027238)	
407	7020411	1	O-Seal Between Fuel Pump and Engine Block (Not Shown)	
408	7020449	3	Gasket, Intake Manifold (Not Shown)	
408	7020471	3	Gasket, Exhaust Manifold (Not Shown)	
409	7020408	1	V-Belt	
410	7027795	1	Control, EMR2 (2000273/2000338 Engine Only)	
410	7027793	1	Connector, EMR2 Control (2000273/2000338 Engine Only)	
410	7027796	1	Harness, EMR2 Control (2000273/2000338 Engine Only)	
411	7000663	1	Alternator (was p/n 7020410)	
411	7020464		Regulator, Voltage (Not Shown)	
412	7020479	1	Starter	
412	7026608	1	Relay, Starter	
413	7027769	1	Radiator Connector Kit	
414		Ref	Sender, Oil Temperature Options (Not Shown):	
414	7027241	1	2000217 Engine Only	
414	7027791	1	2000273/2000338 Engine Only	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
415		Ref	Sensor, Oil Pressure Options:	
415	7020461	1	2000217 Engine Only	
415	7027790	1	2000273/2000338 Engine Only	
416	7024565	1	Sensor, Speed (Not Shown)	
416	70003932	1	Spacer, Sleeve (Not Shown)	
417		Ref	Actuator, Throttle Options:	
417	7020458	1	2000217 Engine Only	
417	7027792	1	2000273/2000338 Engine Only	
417	7027276	2	Spring for Actuators	
418	7020459	1	Thermostat	
418	7020460	1	Spring, Compression	
419	See Note	1	Flywheel (Not Shown) (Note: Not Available for Purchase)	
419	7024579	1	Rim, Gear (Not Shown)	
420	7027245	1	Filter, Fuel	
421	7027239	1	Solenoid, Start (Not Shown - Located near Throttle Actuator)	
422		Ref	Engine Harness Options:	
422	See Note	1	2000217 Engine Only (Note: Not Available for Purchase)	
422	7027794	1	2000273/2000338 Engine Only	
423	70000345	3	Plug, Glow (Deutz Factory Installed - Not Shown) (2000338 Engine Only)	
424	7020169	1	Pipe, Exhaust Pipe	
425	1320176	1	Clamp, Exhaust	
426		Ref	Gasket, Head Options (Not Shown):	
426	70003479	1	Gasket - 1 Notch	
426	70003480	1	Gasket - 2 Notch	
426	70003481	1	Gasket - 3 Notch	
427	70001181	1	Valve, Oil Pressure Relief (Not Shown)	

FIGURE 2-11. PISTON PUMP ASSEMBLY

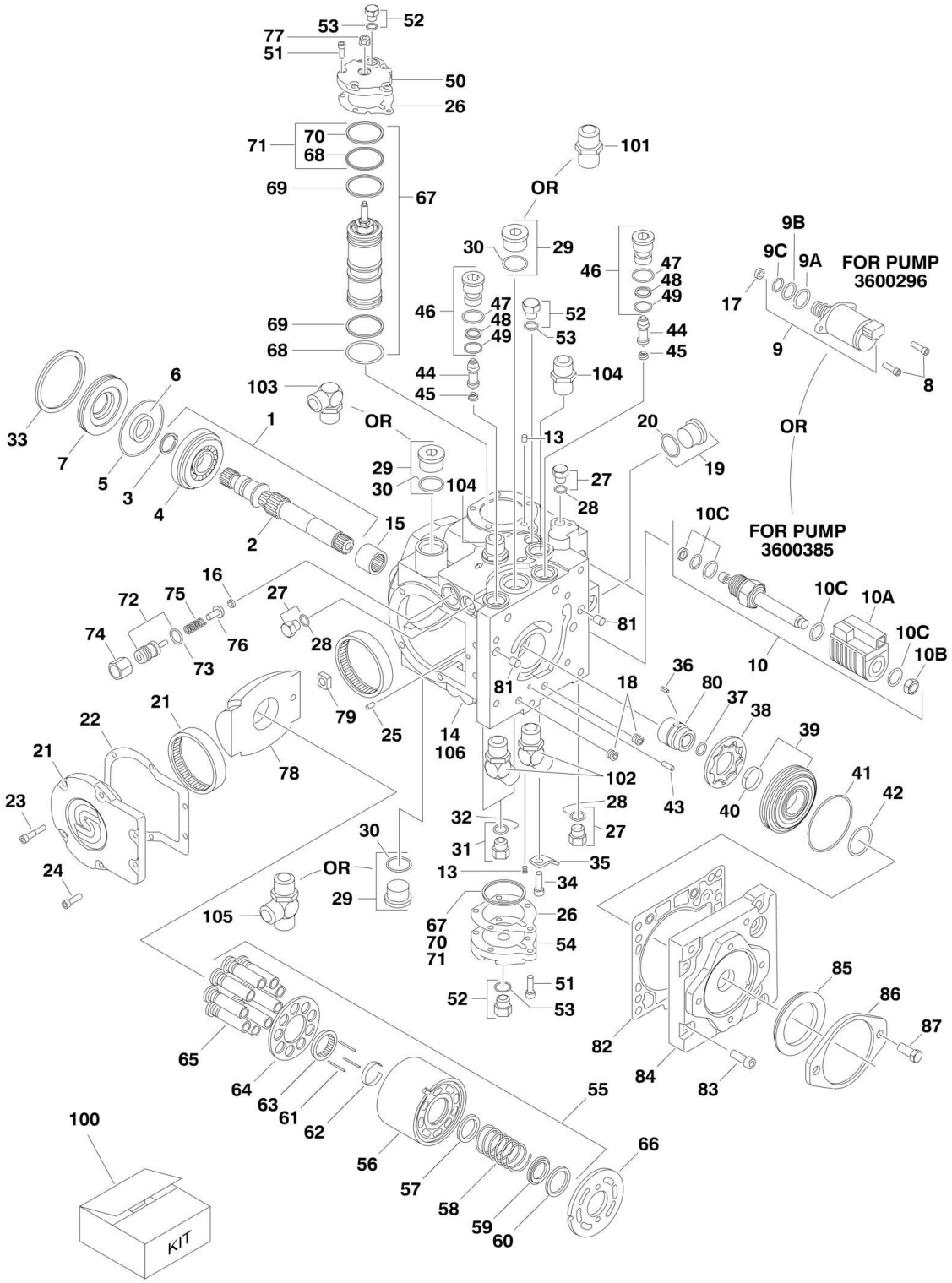


FIGURE 2-11. PISTON PUMP ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PISTON PUMP ASSEMBLY**	
	3600296	Ref	**Piston Pump Assembly (Prior to SN 0300073424)**	D
	3600385	Ref	**Piston Pump Assembly (SN 0300073424 through 0300096000)**	A
1	7021240	1	Shaft Assembly (Includes Items 2-4)	
2	7021237	1	Shaft	
3	7021238	1	Ring, Retaining	
4	7021239	1	Bearing, Roller	
5	See Note	NSS	O-Ring (Note: Use Item 100)	
6	7021242	1	Seal, Lip	
7	7021243	1	Carrier, Seal Shaft	
8	See Note	4	Screw (Note: Not Available for Purchase)	
9	7022373	2	Solenoid Assembly (Includes Items 9A-9C) (3600296 Pump)	
9A	7022374	2	O-Ring (3600296 Pump Only)	
9B	7022375	2	O-Ring (3600296 Pump Only)	
9C	7022376	2	O-Ring (3600296 Pump Only)	
10	7024855	1	Solenoid Assembly (Includes Items 10A-10C) (3600385 Pump)	
10A	7024856	2	Coil (3600385 Pump Only)	
10B	7024857	2	Nut (3600385 Pump Only)	
10C	7024858	2	Seal Kit - 7024855 Cartridge (3600385 Pump Only)	
13	7022377	2	Orifice	
14	7022378	1	Housing Assembly (Includes Items 15-20)	
15	7021249	1	Bearing, Needle	
16	7021254	1	Screen, Filter (3600296 Pump Only)	
17	7022379	2	Screen, Filter (3600296 Pump Only)	
18	7001485	2	Plug	
19	7022380	1	Plug (Includes Item 20)	
20	7022381	1	O-Ring	
21	7021248	1	Side Cover Assembly (Includes Item 22)	
22	See Note	NSS	Gasket (Note: Use Item 100)	
23	7021255	4	Screw	
24	7021251	2	Screw	
25	7021250	1	Pin	
26	See Note	NSS	Gasket (Note: Use Item 100)	
27	7021283	2	Plug Assembly (3600296 Pump Only)	
28	7021284	2	O-Ring (3600296 Pump Only)	
29	7007419	2	Plug Assembly	
30	See Note	NSS	O-Ring (Note: Use Item 29 or 100)	
31	7007470	2	Plug Assembly	
32	See Note	NSS	O-Ring (Note: Use Item 31 or 100)	
33	7021257	1	Ring, Retaining	
34	7021251	1	Screw	
35	7022340	1	Bracket, Lifting	
36	7022342	1	Key	
37	7022341	1	Ring, Retaining	
38	7021258	1	Gerotor	
39	7021260	1	Gerotor Cover Assembly	
40	7021259	1	Bearing, Journal	
41	See Note	1	O-Ring (3600296 Pump Only) (Note: No Longer Available for Purchase)	
42	See Note	NSS	O-Ring (Note: Use Item 100)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	See Note	1	Pin (Note: Not Available for Purchase)	
44	7021263	2	SCR Valve	
45		Ref	Spring Options:	
45	7021264	2	3600296 Pump Only	
45	7024800	2	3600385 Pump Only	
46	7021265	2	Bypass Valve Assembly (Includes Items 47-49)	
47	See Note	NSS	O-Ring (Note: Use Item 46 or 100)	
48	See Note	NSS	Ring, Back-up (Note: Use Item 46 or 100)	
49	See Note	NSS	O-Ring (Note: Use Item 46 or 100)	
50	7022382	1	Cover, Servo	
51	7021255	10	Screw	
52	7007470	1	Plug Assembly	
53	See Note	NSS	O-Ring (Note: Use Item 52 or 100)	
54	7021268	1	Cover, Servo	
55		Ref	Cylinder Block Assembly Options (Includes Items 56-65):	
55	7022383	1	3600385 Pump Only	
55	7021269	1	3600296 Pump Only	
56		Ref	Cylinder Block Options:	
56	7022384	1	3600385 Pump Only	
56	7021270	1	3600296 Pump Only	
57	7021271	1	Washer	
58	7021272	1	Spring	
59	7021273	1	Washer	
60	7021274	1	Ring, Retaining	
61	7021275	3	Pin, Slipper Hold Down	
62	7021276	1	Retainer, Hold Down Pin	
63	7021277	1	Guide, Slipper Retainer	
64	7021278	1	Retainer, Slipper	
65	7021279	9	Piston Assembly	
66	7021281	1	Plate, Valve	
67	7022385	1	Servo Piston Assembly (Includes Items 68-70)	
68	See Note	NSS	O-Ring (Note: Use Item 67, 71 or 100)	
69	See Note	NSS	Ring, Bearing (Note: Use Item 67 or 100)	
70	See Note	NSS	Ring, Piston (Note: Use Item 67, 71 or 100)	
71	7007412	1	Servo Piston Ring Kit (Includes Items 68 & 70 Only)	
72		Ref	Plug Assembly Options:	
72	7022346	1	3600385 Pump Only	
72	7021288	1	3600296 Pump Only	
73	See Note	NSS	O-Ring (Note: Use Item 72 or 100)	
74	7021290	1	Nut	
75		Ref	Spring Options:	
75	7022347	1	3600385 Pump Only	
75	7021291	1	3600296 Pump Only	
76		Ref	Poppet Options:	
76	7024804	1	3600385 Pump Only	
76	7021292	1	3600296 Pump Only	
77	See Note	NSS	Nut, Seal (Note: Use Item 100)	
78	7022386	1	Swashplate	
79	7022387	1	Slider, Block	
80	7021294	1	Coupling	
81	7001481	2	Pin	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
82	70002257	1	Gasket	
83	7021296	7	Screw	
84	7021297	1	Cover, Charge Pump	
85	7021298	1	Seal	
86	7021299	1	Plate, Cover	
87	7007289	2	Screw	
100	7021280	1	Seal Kit (Includes Items 5-6, 22, 26, 30, 32, 42, 47-49, 53, 68-70, 73, 77 & 82)	
	3600404	Ref	**PISTON PUMP SUB-ASSEMBLY**	A
		Ref	**Usage:**	
		Ref	**Caterpillar Engine Machines (SN 0300078267 through 0300096000)**	
		Ref	**Deutz Engine Machines (SN 0300077683 through 0300096000)**	
101	2220376	1	Fitting, Straight	
102	2220498	2	Fitting, Elbow	
103	2220578	1	Fitting, Elbow	
104	2220947	2	Fitting, Straight	
105	2221041	1	Fitting, Tee	
106	3600385	1	Pump Assembly (Includes Items 1-87)	

FIGURE 2-12. GEAR PUMP ASSEMBLY

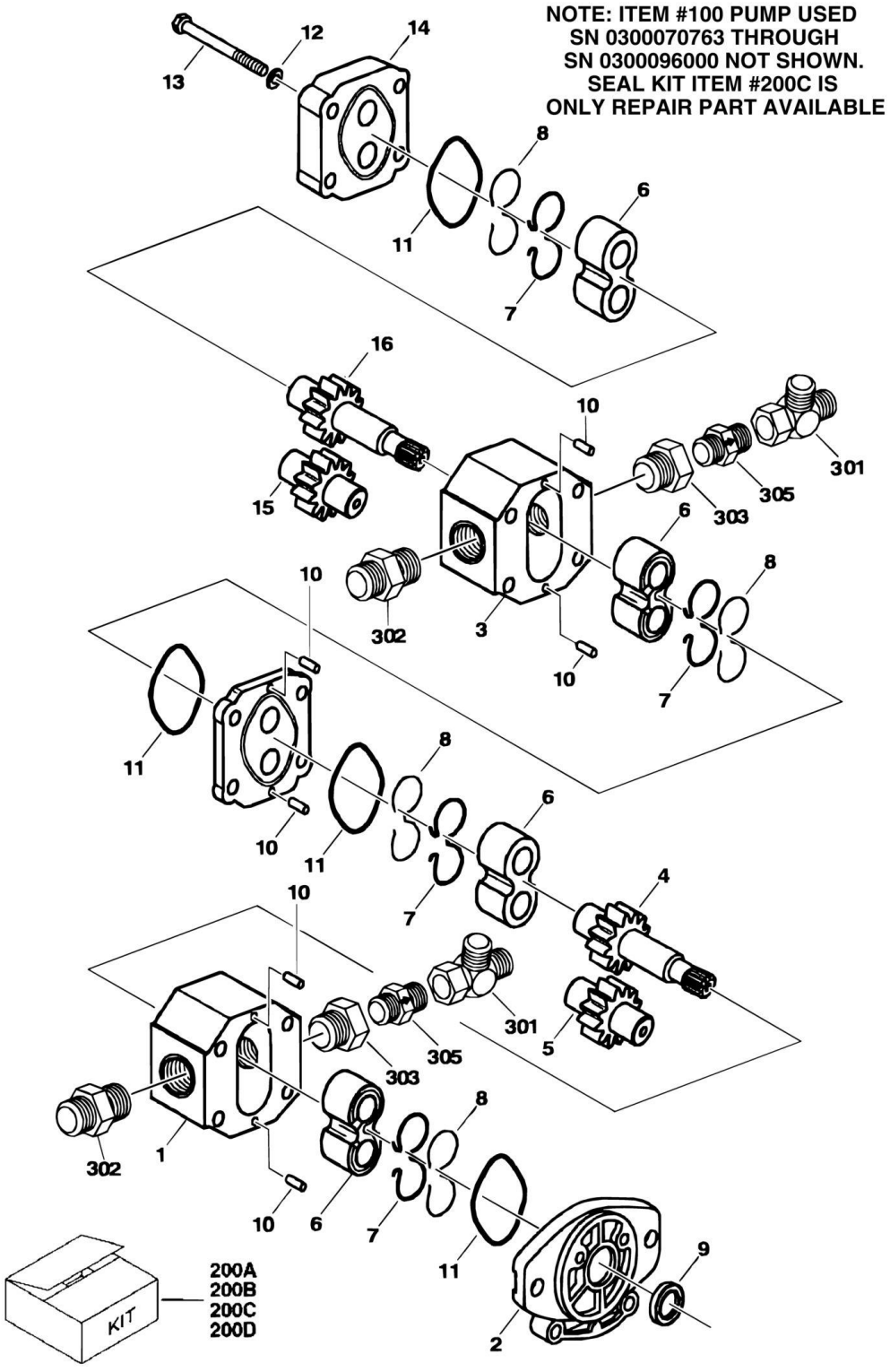


FIGURE 2-12. GEAR PUMP ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GEAR PUMP ASSEMBLY**	
	3600297	Ref	**Pump (Prior to SN 0300070763)**	C
1	See Note	NSS	Body, Front (Note: Use p/n 3600297)	
2	See Note	NSS	Cover (Note: Use p/n 3600297)	
3	See Note	NSS	Body, Rear (Note: Use p/n 3600297)	
4	7023811	1	Gear, Drive	
5	7023812	1	Gear, Idler	
6	See Note	NSS	Block, Bearing (Note: Use Item 200B)	
7	See Note	NSS	Seal, Load (Note: Use Item 200A or 200B)	
8	See Note	NSS	Seal, Anti/Extrusion (Note: Use Item 200A or 200B)	
9	See Note	NSS	Seal, Shaft (Note: Use Item 200A or 200B)	
10	See Note	NSS	Pin, Dowel (Note: Not Available for Purchase)	
11	See Note	NSS	Seal, Static (Note: Use Item 200A or 200B)	
12	7023813	4	Washer	
13	7023814	4	Capscrew	
14	3600297	1	Cover, Rear (Note: Not Available - Purchase Complete)	
15	7023812	1	Gear, Idler	
16	7023815	1	Gear, Drive	
100	3600368	Ref	**Pump (Not Shown) (SN 0300070763 through 0300096000)**	A
		Ref	**Note: Seal Kit Item 200C is only service part available for this pump.**	
200		Ref	**Seal Kit Options:**	
200A	7023820	1	3600297 Minor Seal Kit - (Includes Items - 7, 8, 9 & 11)	
200B	7023802	1	3600297 Major Seal Kit - (Includes Items - 6, 7, 8, 9 & 11)	
200C	7024962	1	3600368 Minor Seal Kit - (Includes Items - 7, 8, 9, 11 and O-Ring Between Intermediate Cover Plates)	
200D	See Note	NLA	3600368 Major Seal Kit (Note: Use p/n 3600368)	
	3600405	Ref	**GEAR PUMP SUB-ASSEMBLY**	A
		Ref	**Usage:**	
		Ref	**Caterpillar Engine Machines (SN 0300078267 through 0300096000)**	
		Ref	**Deutz Engine Machines (SN 0300077683 through 0300096000)**	
301	2220385	2	Fitting, Tee	
302	2220479	2	Fitting, Straight	
303	2220810	2	Fitting, Reducer	
304	3600368	1	Gear Pump Assembly (Not Shown)	
305	4640744	2	Valve, Check	

FIGURE 2-13. AUXILIARY PUMP ASSEMBLY

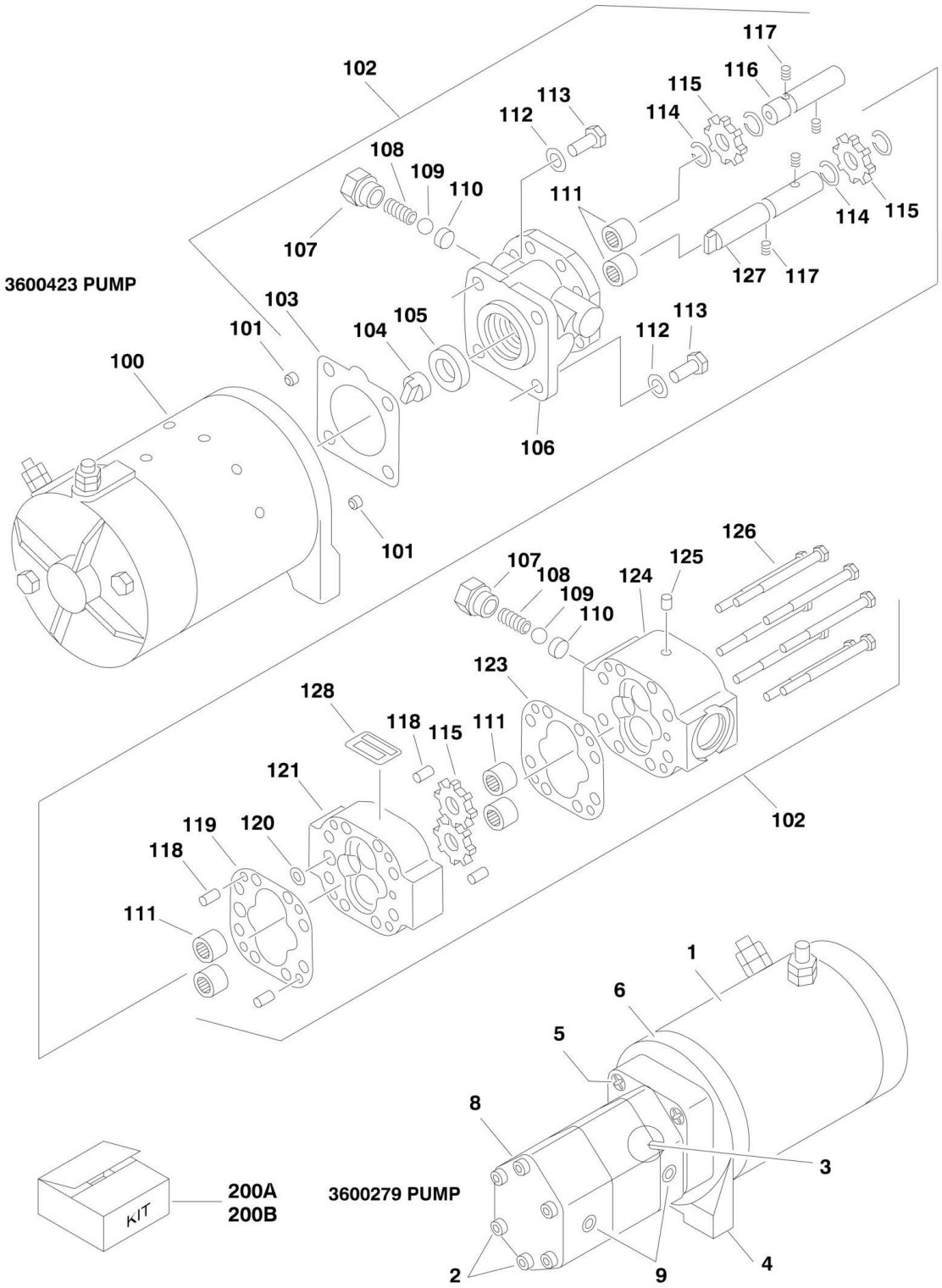


FIGURE 2-13. AUXILIARY PUMP ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**AUXILIARY PUMP ASSEMBLIES**	
		Ref	**Usage:**	
	3600279	Ref	**Original Equipment**	
	3600423	Ref	**Service Replacement**	
		Ref	**Note: Original Equipment pump may have been replaced with Service Replacement pump. Identify Pump by p/n before ordering replacement parts.**	
	3600279	Ref	**AUXILIARY PUMP ASSEMBLY (ORIGINAL EQUIPMENT)**	B
1	7016768	1	Motor, Replacement	
1	7013757	1	Brush Kit	
2	7016745	4	Capscrew, Socket Head 5/16in-24NF x 4-3/4in	
3	7013711	1	Coupling, Drive	
4	7016769	1	Bracket, Mounting	
5	7016744	2	Screw 5/16in-18NC x 1in	
6	7016746	1	Adapter, Mounting	
7	7013766	2	Pin (Not Shown)	
8	7013771	1	Pump, Replacement	
8	7013701	1	Seal Kit - 7013701 Pump	
9	See Note	2	Valve, Check (Note: Not Available for Purchase)	
	3600423	Ref	**AUXILIARY PUMP ASSEMBLY (SERVICE REPLACEMENT)**	A
100	7011067	1	Motor and Adapter	
101	See Note	2	Setscrew (Note: Not Available - Purchase Locally)	
102	70000978	1	Pump Assembly (Includes Items 103-127)	
103	7011044	1	Gasket, Mounting	
104	7011016	1	Coupling	
105	70000969	1	Seal, Shaft	
106	See Note	NSS	Stator (Note: Use Item 200B)	
107	See Note	NSS	Cap Assembly (Note: Use Item 200B)	
108	See Note	NSS	Spring (Note: Use Item 200B)	
109	See Note	NSS	Ball (Note: Use Item 200B)	
110	See Note	NSS	Seat (Note: Use Item 200B)	
111	70000976	6	Bearing, Needle	
112	See Note	NSS	Washer (Note: Use Item 200B)	
113	See Note	NSS	Screw (Note: Use Item 200B)	
114	70000970	4	Ring, Retaining	
115	70000971	4	Gear	
116	70000972	1	Shaft, Idler	
117	See Note	NSS	Pin, Drive (Note: Use Item 200B)	
118	See Note	NSS	Pin, Dowel (Note: Use Item 200B)	
119	70000973	1	Gasket	
120	See Note	NSS	O-Ring (Note: Use Item 200A or 200B)	
121	See Note	NSS	Housing, Gear (Note: Use Item 200B)	
122	See Note	1	Label (Note: Not Available for Purchase)	
123	7000974	1	Gasket	
124	See Note	NSS	Housing, Gear (Note: Use Item 200B)	
125	See Note	NSS	Plug (Note: Use Item 200B)	
126	See Note	NSS	Screw (Note: Use Item 200B)	
127	70000975	1	Shaft, Drive	
128	See Note	1	Label (Note: Not Available for Purchase)	
200		Ref	**SEAL KIT OPTIONS**	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
200A	70000977	1	Seal Kit - 3600423 Assembly (Includes Items 103,105, 120 and Qty 2 O-Rings for Item 107)	
200B	70000978	1	Replacement Pump Kit (Includes Items 103-121 & 123-127)	

FIGURE 2-14. TANK INSTALLATIONS

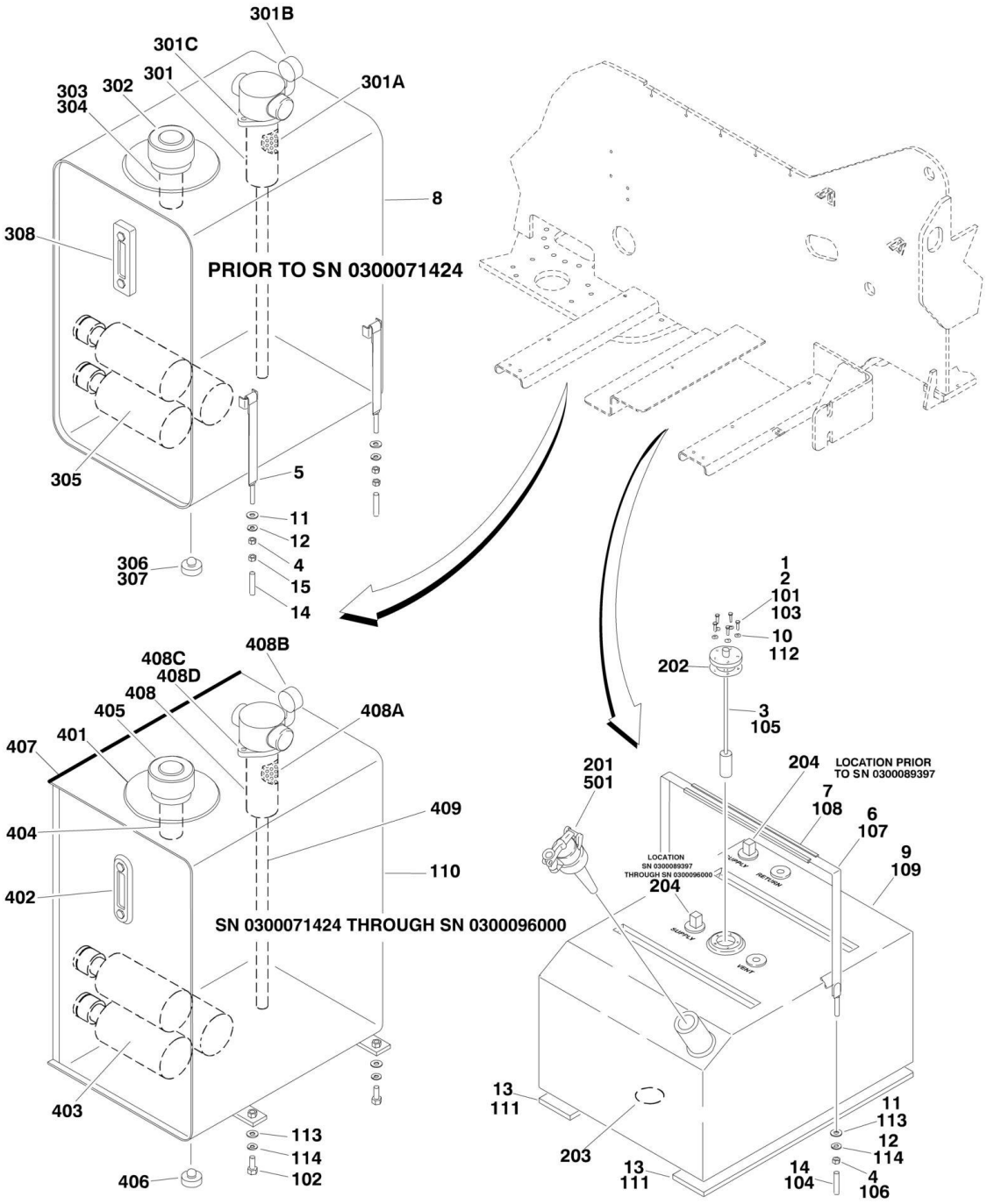


FIGURE 2-14. TANK INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**TANKS INSTALLATION OPTIONS**	
	0259143	Ref	**Tanks Installation (Prior to SN 0300071424)**	E
1	0100011	AR	Compound, Locking	
2	0731007	5	Screw, Indented #10-24NC	
3	2420191	1	Gauge, Fuel Level	
3	3960525	1	Gasket	
4	3311601	6	Nut 3/8in-16NC	
5	4240112	4	Strap, Tank Mount	
6	4240135	1	Strap, Tank Mount	
7	4280295	24 in/61cm	Strip, Bumper	
8	4400423	1	Hydraulic Tank Assembly (See Items 301-308 for Breakdown)	
9	4400429	1	Tank, Fuel (See Items 201-204 for Breakdown)	
10	4751000	5	Flatwasher #10 Regular	
11	4751600	6	Flatwasher 3/8in Regular	
12	4761600	6	Lockwasher 3/8in	
13	4420038	4 ft/1.3m	Tape, Rubber	
14	1120532	5	Cap, Protector	
15	3311602	4	Nut Jam 3/8in-16NC	
	0272731	Ref	**Tank Installation (SN 0300071424 through 0300096000)**	B
101	0100011	AR	Compound, Locking	
102	0641608	4	Bolt 3/8in-16NC x 1in	
103	0731007	5	Screw, Indented #10-24NC	
104	1120532	2	Cap, Protector	
105	2420191	1	Gauge, Fuel Level	
105	3960525	1	Gasket	
106	3311601	2	Nut 3/8in-16NC	
107	4240135	1	Strap, Tank Mount	
108	4280295	2.2 ft/0.7m	Strip, Bumper	
109	4400429	1	Tank, Fuel (See Items 201-204 for Breakdown)	
110	4400450	1	Hydraulic Tank Assembly (See Items 401-409 for Breakdown)	
111	4420038	6 ft/1.8m	Tape, Rubber	
112	4751000	5	Flatwasher #10 Regular	
113	4751600	6	Flatwasher 3/8in Regular	
114	4761600	6	Lockwasher 3/8in	
	4400429	Ref	**FUEL TANK ASSEMBLY**	H
201	See Note	1	Cap, Fill (Note: Tank Includes Non-Locking Cap) (Note: See Item 501)	
202	7016680	1	Gasket, Cover Plate	
203	See Note	1	Plug (Note: Not Available - Purchase Locally)	
204	7020043	1	Tube	
		Ref	**Hydraulic Tank Assembly Options**	
	4400423	Ref	**Hydraulic Tank Assembly (Prior to SN 0300071424)**	D
301	7020226	1	Filter	
301A	7023205	1	Element	
301B	See Note	1	Gauge, Pressure (Note: Not Available for Purchase)	
301C	7023306	1	Seal	
302	7020252	1	Cap, Fill	
303	7014810	1	Filler Neck Assembly	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
304	7014816	1	Screen	
305	7014801	3	Strainer	
306	7014813	1	Plug, Magnetic	
307	7014812	1	Magnet	
308	7014802	1	Gauge, Sight	
	4400450	Ref	**Hydraulic Tank Assembly (SN 0300071424 through 0300096000)**	C
401	7024439	1	Cover	
401	7024440		Gasket	
402	7024441	1	Gauge, Sight	
403	7024442	3	Strainer	
404	7024443	1	Filler Neck Assembly	
404	7024445	1	Strainer	
405	7024444	1	Cap, Fill	
406	7024446	1	Plug, Magnetic	
407	4060803	22 in/56cm	Flex-Trim	
408	7020226	1	Filter	
408A	7023205	1	Element	
408B	See Note	1	Gauge, Pressure (Note: Not Available for Purchase)	
408C	7023306	1	Seal	
408D	70002768	1	Spring	
409	70001863	1	Pipe	
501		Ref	**FUEL CAP OPTIONS:**	
501	1120484	Ref	Locking Cap (Red)	
501	1120487	Ref	Locking Cap (Blue)	
501	7016314	Ref	Standard Non-Locking Cap	

FIGURE 2-15. GROUND CONTROL BOX ASSEMBLY WITHOUT ADE SYSTEM

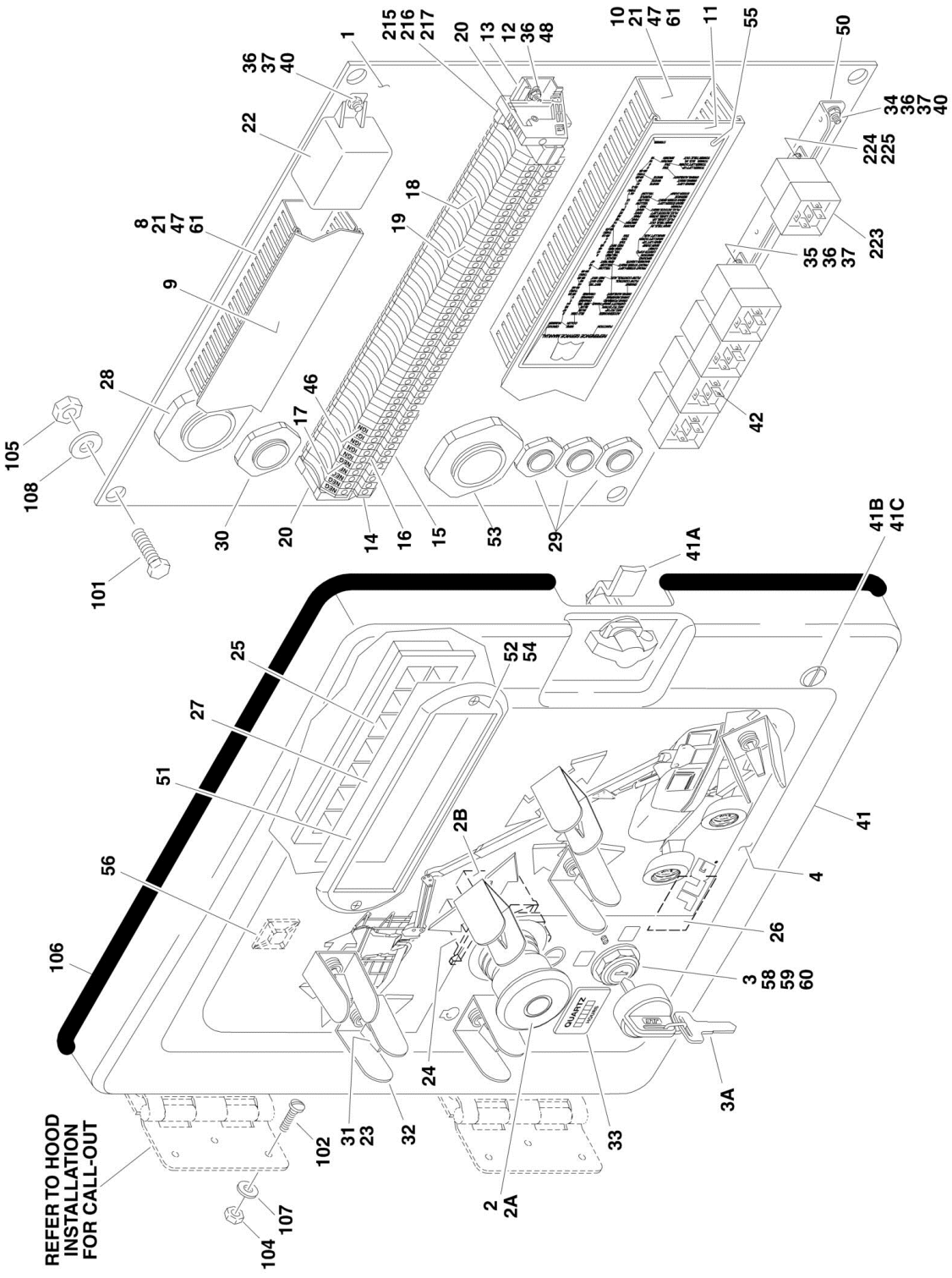


FIGURE 2-15. GROUND CONTROL BOX ASSEMBLY WITHOUT ADE SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GROUND CONTROL BOX ASSEMBLIES**	
	0861360	Ref	**Ground Control Box Assemblies 400S**	1/A
	0861361	Ref	**Ground Control Box Assemblies 460SJ**	1/A
1	3572003	1	Plate	
2	4360475	1	Switch, Emergency Stop	
2A	7020175	1	Cap, Mushroom Head	
2B	7020176	1	Block, Contact	
3	4360470	1	Switch, Key	
3A	2860030	1	Key	
4		Ref	Decal - Faceplate Options:	
4	1704465	1	Decal - Faceplate 400S	
4	1704466	1	Decal - Faceplate 460SJ	
5	4922347	1	Engine Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown)	
6	4922346	1	Valve Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown)	
7	4922349	1	Ground Control Box Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown)	
8	1840020	1	Duct, Wiring - 2in/5cm	
9	1840013	1	Duct, Cover - 2in/5cm	
10	1840014	1	Duct, Wiring - 3in/7.6cm	
11	1840015	1	Duct, Cover - 3in/7.6cm	
12	0731004	2	Screw #10-32NF x 1/2in	
13	3641182	1	Rail	
14	4460602	1	Barrier, Terminal	
15	4460601	10	Block, Terminal	
16	4460603	1	Bussbar - 10 Position (Requires being cut into (2) 5 position bussbars)	
17	4460631	1	Marker, Terminal (Negative)	
18	4460600	46	Block, Terminal	
19	4460628	2	Marker, Terminal (1-50)	
20	4460607	2	Stop, Terminal	
21	4750600	4	Flatwasher #6 Regular	
22	3740112	1	Relay, Bosch	
23	4360314	AR	Switch, Toggle	
24	4360476	1	Switch, Contact Block	
25	2760105	1	Housing, Display Light	
26	4420038	1 ft/.3m	Insulation, Adhesive Foam	
27	1702610	1	Decal - Ground Control Display	
28	4460526	1	Connector, Strain Relief	
29	4460428	3	Connector, Strain Relief	
30	4460426	1	Connector, Strain Relief	
31	4740444	6	Washer, Special	
32	4060906	6	Shield, Toggle Switch	
33	2420172	1	Gauge, Hourmeter	
36	4751000	4	Flatwasher #10 Regular	
37	0721004	10	Screw #10-24NC x 1/2in	
40	0100011	AR	Compound, Locking	
41	1780307	1	Lid Assembly	
41A	2940073	1	Latch	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41B	7024319	2	Screw	
41C	7024320	2	Retainer	
42	3740049	AR	Relay	
46	4460630	1	Marker, Terminal (Ignition)	
47	4760600	4	Lockwasher #6	
48	4761000	2	Lockwasher #10	
50	3539275	1	Bracket, Relay Mounting	
51	1670829	1	Bezel	
52	0630518	2	Capscrew, Button Head	
53	4460711	1	Connector, Strain Relief	
54	3300408	AR	Locknut, Plastic Insert	
55	1703622	1	Decal - Service Manual Reference	
56	4460234	AR	Base, Tie-Strap	
58	4070991	1	Shim .125	
59	4070987	1	Shim .015	
60	3910804	6	Screw #8-32NC x 1/4in	
61	3910608	4	#6-32NC x 1/2in	
		Ref	**GROUND CONTROL BOX INSTALLATIONS**	
	0861284	Ref	**Ground Control Box Installations 400S**	1
	0861285	Ref	**Ground Control Box Installations 460SJ**	1
101	0641406	4	Bolt 1/4in-20NC x 3/4in	
102	0720805	6	Screw, Machine #8-32NC	
104	3310805	6	Locknut #8-32NC	
105	3311405	4	Locknut 1/4in-20NC	
106	3960438	AR	Seal	
107	4750800	6	Flatwasher #8 Regular	
108	4751400	8	Flatwasher 1/4in Regular	
		Ref	**PLATFORM OVERLOADINSTALLATIONS**	
	0271474	Ref	**Overload - Lift Down (Prior to SN 0300062886)**	1/B
	0271542	Ref	**Overload - Lift Down (SN 0300062886 through 0300064715)**	1/A
215	3740057	1	Relay	
216	4120012	1	Base, Relay	
217	3740066	1	Spring, Relay	
223	3740049	1	Relay	
224	3300408	1	Locknut #10-24NC	
225	0721006	1	Screw #10-24NC x 3/4in	

FIGURE 2-16. GROUND CONTROL BOX ASSEMBLY WITH ADE SYSTEM

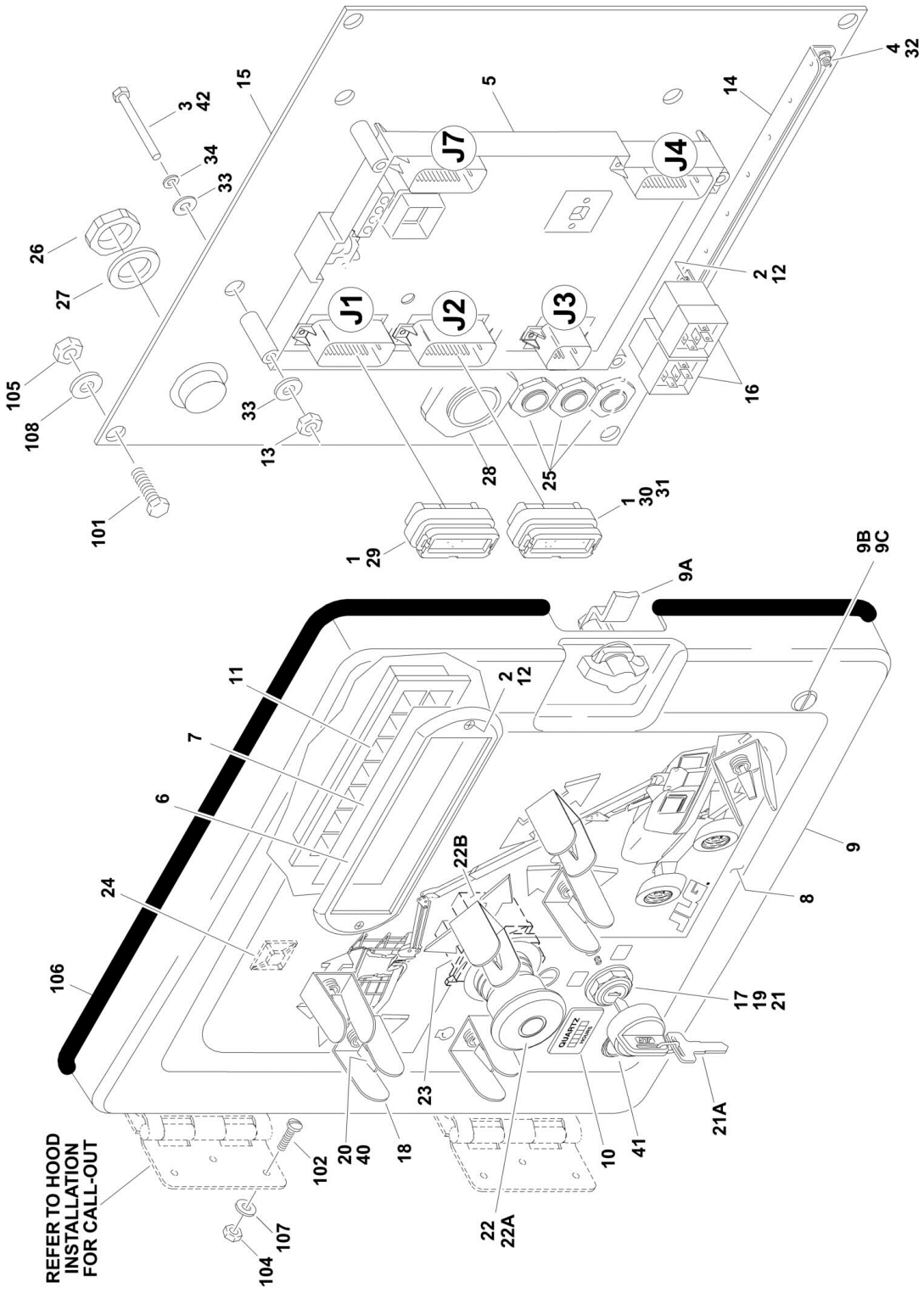


FIGURE 2-16. GROUND CONTROL BOX ASSEMBLY WITH ADE SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GROUND CONTROL BOX ASSEMBLIES**	
	0861593	Ref	**Ground Control Box Assemblies 400S with Caterpillar Engine (Prior to SN 0300087630)**	D
	0861708	Ref	**Ground Control Box Assemblies 400S with Caterpillar Engine (SN 0300087630 through 0300096000)**	D
	0861436	Ref	**Ground Control Box Assemblies 400S with Deutz Engine (Prior to SN 0300064404)**	D
	0861497	Ref	**Ground Control Box Assemblies 400S with Deutz Engine (SN 0300064404 through 0300085616)**	G
	0861737	Ref	**Ground Control Box Assemblies 400S with Deutz Engine (SN 0300085617 through 0300096000)**	B
	0861594	Ref	**Ground Control Box Assemblies 460SJ with Caterpillar Engine (Prior to SN 0300087630)**	D
	0861709	Ref	**Ground Control Box Assemblies 460SJ with Caterpillar Engine (SN 0300087630 through 0300096000)**	D
	0861437	Ref	**Ground Control Box Assemblies 460SJ with Deutz Engine (Prior to SN 0300064404)**	D
	0861498	Ref	**Ground Control Box Assemblies 460SJ with Deutz Engine (SN 0300064404 through 0300085616)**	G
	0861738	Ref	**Ground Control Box Assemblies 460SJ with Deutz Engine (SN 0300085617 through 0300096000)**	B
1	0100048	AR	Grease, Dialectric	
2	0630518	5	Capscrew, Button Head	
3	0630548	5	Tap Bolt, 2-1/2in	
4	0721004	2	Screw #10-24NC x 1/2in	
5		Ref	Module, Ground Control Options (Re-calibration Required when Replaced):	
5	1600312	NLA	Module, Ground Control (Caterpillar/Deutz Engine) (Use p/n 2910752) **(Prior to SN 0300064404)**	
5	1600327	NLA	Module, Ground Control (Caterpillar/Deutz Engine) (Use p/n 2915014) **(SN 0300064404 through 0300077553)**	
5	1600364	1	Module, Ground Control (Caterpillar Engine) **(SN 0300077554 through 0300096000)**	
5	1600364	1	Module, Ground Control (Deutz Engine) **(SN 0300077554 through 0300085616)**	
5	1600411	1	Module, Ground Control (Deutz Engine) **(SN 0300085617 through 0300096000)**	
5	2915014	1	Update Kit (Includes Module, Cables, Programming Instructions and CD Software) (Used with module p/n 1000364)	
6	1670829	1	Bezel	
7		Ref	Decal - Ground Control Display	
7	1702610	1	Caterpillar Engine Machines **(Prior to SN 0300085617)**	
7	1705753	1	Caterpillar Engine Machines **(SN 0300085617 through 0300093232)**	
7	1706712	1	Caterpillar Engine Machines **(SN 0300093233 through 0300096000)**	
7	1702610	1	Deutz Engine Machines **(Prior to SN 0300072566)**	
7	1705752	1	Deutz Engine Machines **(SN 0300072566 through 0300085616)**	
7	1705753	1	Deutz Engine Machines **(SN 0300085617 through 0300093232)**	
7	1706712	1	Deutz Engine Machines **(SN 0300093233 through 0300096000)**	
8		Ref	Decal - Faceplate Options:	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
8	1704465	1	Decal - Faceplate 400S	
8	1704466	1	Decal - Faceplate 460SJ	
9	1780307	1	Lid Assembly	
9A	2940073	1	Latch	
9B	7024319	2	Screw	
9C	7024320	2	Retainer	
10	2420172	1	Gauge, Hourmeter	
11	2760105	1	Housing, Display Light	
12	3300408	5	Locknut, Plastic Insert	
13	3311401	10	Nut 1/4in-20NC	
14	3539275	1	Bracket, Relay Mounting	
15	3572827	1	Plate	
16	3740049	AR	Relay	
17	3910804	6	Screw #8-32NC x 1/4in	
18	4060906	7	Shield, Toggle Switch	
19	4070987	1	Shim.015	
20	4360328	7	Switch, Toggle	
21	4360470	1	Switch, Key	
21A	2860030	1	Key	
22	4360475	1	Switch, Emergency Stop	
22A	7020175	1	Cap, Mushroom Head	
22B	7020176	1	Block, Contact	
23	4360476	1	Switch, Contact Block	
24	4460234	AR	Base, Tie-Strap	
25	4460428	3	Connector, Strain Relief	
26	4460470	1	Nut, Terminal	
27	4460471	1	Washer, Terminal	
28	4460526	1	Connector, Strain Relief	
29	4460874	1	Connector, Natural	
30	4460875	1	Connector, Gray	
31	4460905	4	Connector, Amp Seal Plug	
32	4751000	2	Flatwasher #10 Regular	
33	4751400	20	Flatwasher 1/4in Regular	
34	4761400	15	Lockwasher 1/4in	
35		Ref	Engine Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown)	
35	4922880	1	Caterpillar Engine Machines **(Prior to SN 0300087630)**	
35	4923234	1	Caterpillar Engine Machines **(SN 0300087630 through 0300091229)**	
35	4923356	1	Caterpillar Engine Machines **(SN 0300091230 through 0300096000)**	
35	4922537	1	Deutz Engine Machines **(Prior to SN 0300085617)**	
35	4923260	1	Deutz Engine Machines **(SN 0300085617 through 0300096000)**	
36	4922538	1	Valve Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown)	
37		Ref	Ground Control Box Harness Assembly (Not Shown - See ELECTRICAL SECTION for Breakdown)	
37	4922664	1	Caterpillar Engine Machines **(Prior to SN 0300087630)**	
37	4923236	1	Caterpillar Engine Machines **(SN 0300087630 through 0300091229)**	
37	4923456	1	Caterpillar Engine Machines **(SN 0300091230 through 0300096000)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	4922540	1	Deutz Engine Machines **(Prior to SN 0300064404)**	
37	4922664	1	Deutz Engine Machines **(SN 0300064404 through 0300085616)**	
37	4923261	1	Deutz Engine Machines **(SN 0300085617 through 0300096000)**	
38		Ref	Harness, Analyzer Cable Options (Not Shown - See ELECTRICAL SECTION for Breakdown):	
38	4922485	1	All Machines **(Prior to SN 0300064404)**	
38	4922666	1	All Machines **(SN 0300064404 through 0300085616)**	
38	4922666	1	Caterpillar Engine Machines **(SN 0300085617 through 0300096000)**	
38	Not Required	0	Deutz Engine Machines **(SN 0300085617 through 0300096000)**	
40	3790012	7	O-Ring	
41	1705132	1	Decal - ADE Control **(SN 0300067471 through 0300096000)**	
42	0100011	AR	Compound, Locking	
		Ref	**GROUND CONTROL BOX INSTALLATIONS**	
	0272940	Ref	**Ground Control Box Installations 400S with Caterpillar Engine (Prior to SN 0300087630)**	2
	0274417	Ref	**Ground Control Box Installations 400S with Caterpillar Engine (SN 0300087630 through 0300096000)**	1
	0271080	Ref	**Ground Control Box Installations 400S with Deutz Engine (Prior to SN 0300064404)**	3
	0271660	Ref	**Ground Control Box Installations 400S with Deutz Engine (SN 0300064404 through 0300096000)**	4
	0272941	Ref	**Ground Control Box Installations 460SJ with Caterpillar Engine (Prior to SN 0300087630)**	2
	0274418	Ref	**Ground Control Box Installations 460SJ with Caterpillar Engine (SN 0300087630 through 0300096000)**	1
	0271081	Ref	**Ground Control Box Installations 460SJ with Deutz Engine (Prior to SN 0300064404)**	3
	0271658	Ref	**Ground Control Box Installations 460SJ with Deutz Engine (SN 0300064404 through 0300096000)**	4
101	0641406	4	Bolt 1/4in-20NC x 3/4in	
102	0720805	6	Screw, Machine #8-32NC	
104	3310805	6	Locknut #8-32NC	
105	3311405	4	Locknut 1/4in-20NC	
106	3960438	AR	Seal	
107	4750800	6	Flatwasher #8 Regular	
108	4751400	8	Flatwasher 1/4in Regular	

FIGURE 2-17. ELECTRICAL OPTIONS INSTALLATION (TURNTABLE MOUNTED)

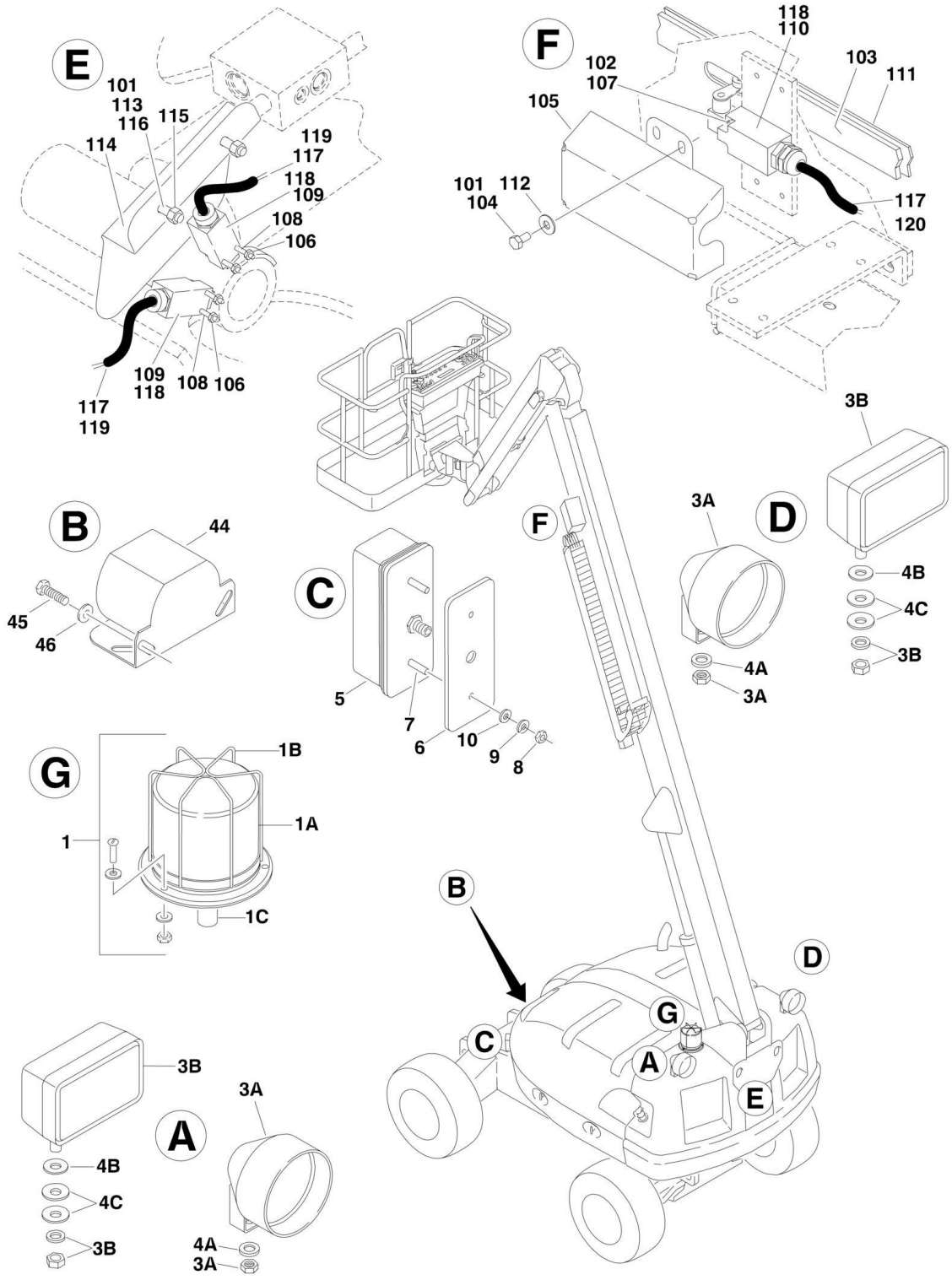


FIGURE 2-17. ELECTRICAL OPTIONS INSTALLATION (TURNTABLE MOUNTED)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STROBE LIGHT INSTALLATIONS (AMBER) (OPTIONAL)**	
	0270160	Ref	**Without ADE System**	1
	0271342	Ref	**With ADE System**	2
		Ref	**Note: If machine is equipped with BLUE Strobe Light, See SPECIAL OPTIONS SECTION for SkyGuard Kit.**	
1	0255917	1	Strobe Light/Guard/Harness Assembly	2/B
1A	2920130	NLA	Strobe Light - ECCO Model 6640 (Use p/n 0255917)	
1A	2920214	NLA	Strobe Light - ECCO Model 6650 (Use p/n 0255917)	
1A		Ref	Bulb, Replacement Options:	
1A	7016380	1	Bulb for ECCO Model 6640	
1A	70001941	1	Bulb for ECCO Model 6650	
1B		Ref	Guard Options:	
1B	4060907	1	Used with ECCO Model 6640	
1B	2920215	1	Used with ECCO Model 6650	
1C		Ref	Adapter Options:	
1C	0630491	1	Used with ECCO Model 6640	
1C	0080241	1	Used with ECCO Model 6650	
2	0100048	AR	Sealant, Silicone (Not Shown)	
		Ref	**LIGHTS INSTALLATIONS (OPTIONAL)**	
	0270159	Ref	**Headlights and Taillights Without ADE System**	2
	0271343	Ref	**Headlights and Taillights With ADE System (Prior to SN 0300064509)**	2
	0272018	Ref	**Headlights and Taillights With ADE System (SN 0300064509 through 0300096000)**	1
	0274574	Ref	**Chassis Illumination Lights**	1/A
3		Ref	Light Options:	
3A	2920110	2	Headlight Assembly (Round) (Includes Mounting Hardware)	
3A	7016628	2	Bulb, Replacement (1 Per Assembly)	
3B	2920157	2	Chassis Illumination Light Assembly (Rectangular) (Includes Mounting Hardware)	
3B	7024452	2	Bulb, Replacement (1 Per Assembly)	
4		Ref	Washer Options:	
4A	4740076	2	Washer, Fender (Use with Headlights and Taillights)	
4B	4740274	2	Washer, Snubbing (Use with Illumination Lights)	
4C	4740546	4	Washer, Rubber Cushioning (Use with Illumination Lights)	
5	2920113	2	Taillight Assembly	
6	3960461	2	Gasket	
7	3911040	4	Screw, Machine #10-24NC x 2-1/2in	
8	3311005	4	Nut #10-24NC	
9	4751000	4	Flatwasher #10 Regular	
10	4740362	4	Washer, Fender	
11	4460234	14	Mount, Tie-Strap (Not Shown)	
12	4240032	14	Tie-Strap (Not Shown)	
14	4360336	1	Switch, Toggle - SPST (Not Shown - Located on Console)	
15	3790012	1	O-Ring (Not Shown - Located on Console)	
	0258308	Ref	**ALARMS INSTALLATIONS**	2
44	See Note	1	Alarm/Harness Assembly (was p/n 0257887) (Note: Not Available - Purchase individual parts)	
44	0140032	1	Alarm	
44	2820035	6 in/15cm	Loom	
44	4460424	1	Plug, Male - 2 Position	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
44	4460268	2	Socket, Female	
45	0641406	2	Bolt 1/4in-20NC x 3/4in	
46	4711400	2	Flatwasher 1/4in Regular	
47	0100048	AR	Sealant, Silicone (Not Shown)	
		Ref	**LIMIT SWITCHES INSTALLATIONS - 400S**	
	0259157	Ref	**Australian Spec 400S with 500/1000LB. Capacity (Without ADE System)**	I
	0271164	Ref	**Australian Spec 400S with 500/1000LB. Capacity (With ADE System)**	F
	0259852	Ref	**Australian Spec 400S with 750/1000LB. Capacity (Without ADE System)**	I
	0271165	Ref	**Australian Spec 400S with 750/1000LB. Capacity (With ADE System)**	F
	0259857	Ref	**Australian Spec 460SJ (Without ADE System)**	E
	0271166	Ref	**Australian Spec 460SJ (With ADE System)**	D
	0270270	Ref	**CE Spec 400S/460SJ (Without ADE System)**	E
	0271163	Ref	**CE Spec 400S/460SJ (With ADE System)**	F
101	0100011	AR	Compound, Locking	
102	0100035	AR	Compound, Locking	
103		Ref	Bar, Fiberglass Options:	
103	0362528	1	Australian Spec 400S with 500/1000lb. Capacity	
103	0362909	1	Australian Spec 400S with 750/1000lb. Capacity	
103	Not Required	0	Australian Spec 460SJ	
103	0362610	1	CE Spec 400S & 460SJ	
104	0641404	4	Bolt #8-32NC x 1/2in	
105		Ref	Cover, Limit Switch Options:	
105	1670824	1	Australian Spec 400S	
105	Not Required	0	Australian Spec 460SJ	
105	1670824	1	CE Spec 400S & 460SJ	
106	3311005	AR	Locknut #10-24NC	
107	3930816	AR	Capscrew, Socket Head #8-32NC x 1in	
108	3931028	4	Capscrew, Socket Head #10-24NC x 1-3/4in	
109		Ref	Switch, Limit Options:	
109	4360321	NLA	Switch, Limit (Use p/n 4360548) **(Prior to SN 0300074316)**	
109	4360548	2	Switch, Limit **(SN 0300074316 through 0300096000)**	
110		Ref	Switch, Limit Options:	
110	4360322	NLA	Australian Spec 400S (Use p/n 4360549) **(Prior to SN 0300074316)**	
110	4360549	1	Australian Spec 400S **(SN 0300074316 through 0300096000)**	
110	Not Required	0	Australian Spec 460SJ	
110	4360322	NLA	CE Spec 400S & 460SJ (Use p/n 4360578) **(Prior to SN 0300074316)**	
110	4360549	NLA	CE Spec 400S & 460SJ (Use p/n 4360578) **(SN 0300074316 through 0300080967)**	
110	4360578	1	CE Spec 400S & 460SJ **(SN 0300080968 through 0300096000)**	
111	4420060	9 ft/2.7m	Tape, Double Sided	
112	4751400	AR	Flatwasher 1/4in Regular	
113	0641610	2	Bolt 3/8in-16NC x 1-1/4in	
114	1670956	1	Cover, Limit Switch	
115	3311601	2	Nut 3/8in-16NC	
116	4711600	4	Flatwasher 3/8in Thin	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
117		Ref	Cable, Electrical Options:	
117	1060341	AR	Cable, Electrical - 16/2 (Without ADE System)	
117	1060341	37 ft/11.3m	Australian Spec 400S	
117	1060341	6 ft/1.8m	Australian Spec 460SJ	
117	1060341	37 ft/11.3m	CE Spec 400S & 460SJ	
117	1060680	AR	Cable, Electrical - 18/2 (With ADE System) **(Prior to SN 0300068739)**	
117	1060680	42.5 ft/13m	Australian Spec 400S	
117	1060680	8.5 ft/2.6m	Australian Spec 460SJ	
117	1060680	42.5 ft/13m	CE Spec 400S & 460SJ	
118		Ref	Connector, Strain Relief Options:	
118	4460428	AR	Connector, Strain Relief (Use with p/n 4360322 & 4360321) **(Prior to SN 0300074316)**	
118	4460968	AR	Connector, Strain Relief (Use with p/n 4360549 & 4360548) **(SN 0300074316 through 0300096000)**	
119	4922714	2	Cable, Electrical - 18/2 (Includes Items 109 & 118) **(SN 0300068739 through 0300096000)**	B
119	1060609	8.5 ft/2.6m	Cable, Electrical - 18/2	
120	4922769	1	Cable, Electrical - 18/2 **(SN 0300068739 through 0300096000)**	
120	1060680	26.5 ft/8.1m	Cable, Electrical - 18/2	

FIGURE 2-18. HOODS INSTALLATION

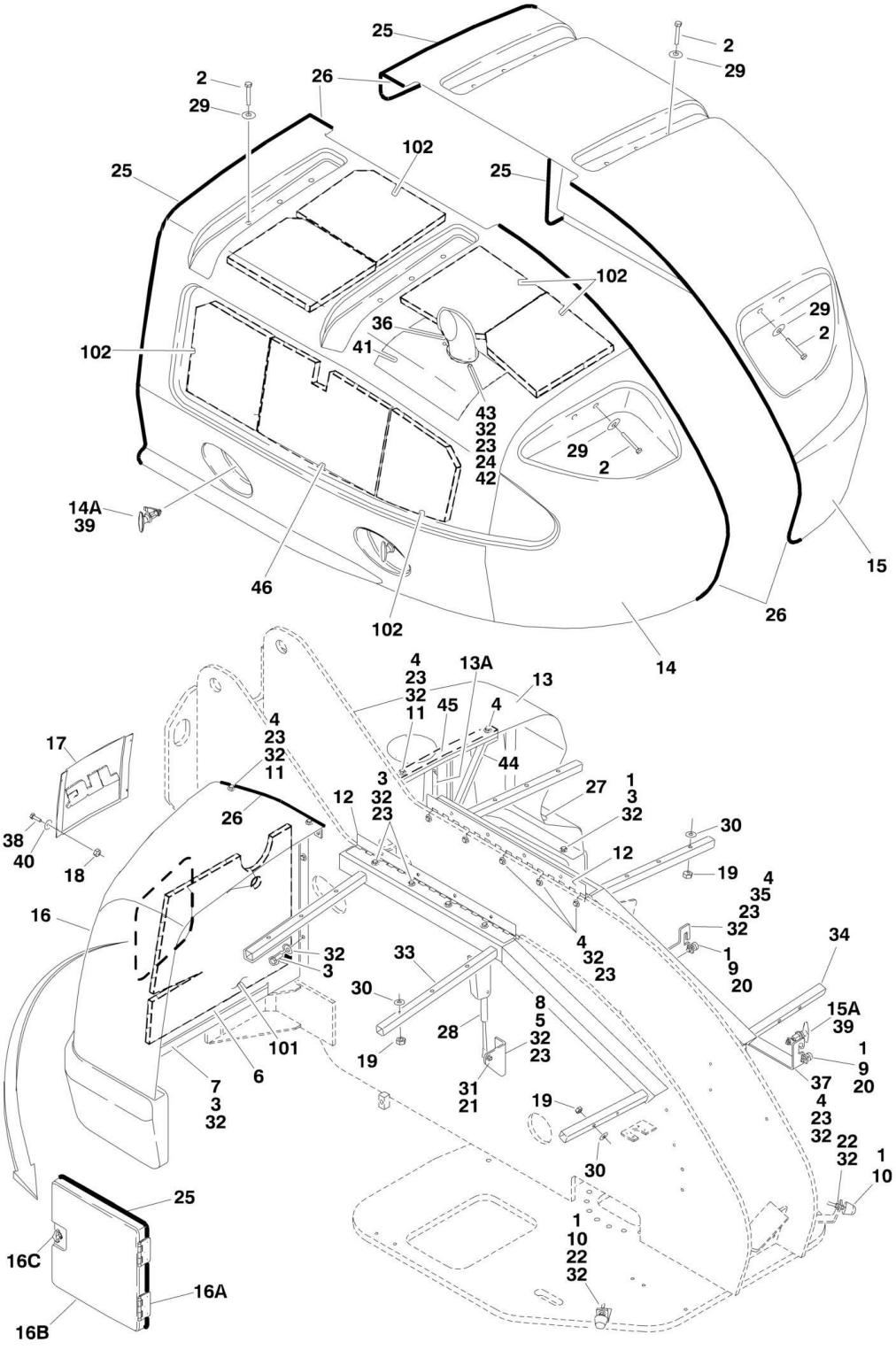


FIGURE 2-18. HOODS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0259141	Ref	**HOODS INSTALLATION**	
1	0100011	AR	Compound, Locking (Not Shown)	
2	0641416	16	Bolt 1/4in-20NC x 2in	
3	0641608	13	Bolt 3/8in-16NC x 1in	
4	0641610	18	Bolt 3/8in-16NC x 1-1/4in	
5	0641612	5	Bolt 3/8in-16NC x 1-3/4in	
6	0861320	1	Plate, Storage **(Prior to SN 0300072073)**	
7	0861327	1	Plate, Storage **(Prior to SN 0300072073)**	
8	0902669	2	Angle, Mounting	
9	0940049	2	Stopper, Hood	
10	0940071	2	Bumper	
11	2540035	5	Grommet	
12	2600209	2	Hinge, Hood	
13	2680463	1	Cover, Hood (Front Right Side)	G
13A	2600258	2	Hinge, Ground Control Lid	
14	2680464	NLA	Hood (Use Kit p/n 1001146992 - Kit Includes Non-Lockable Hood, Current Heat Shields and Items 36 & 102 Installed)	E
14	2680464	NLA	Hood (Use Kit p/n 1001146956 - Kit Includes Non-Lockable Hood, Current Heat Shields and Item 36 Installed)	H
14	2680464	NLA	Hood (Use Kit p/n 1001097963 - Kit Includes Non-Lockable Hood and Current Heat Shields. Purchase Item 36 Separately)	H
		Ref	**Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.**	
14A		Ref	Latch Options:	
14A	2940117	2	Non-Lockable	
14A	7027858	2	Lockable	
14B	0902668	2	Catch, Hood Latch **(SN 0300067320 through 0300096000)**	
15	2680465	1	Hood (Tank Side)	G
		Ref	**Note: Replacement Decals Must be Ordered Separately - See DECAL SECTION.**	
15A		Ref	Latch Options:	
15A	2940117	2	Non-Lockable	
15A	7027858	2	Lockable	
15B	0902668	2	Catch, Hood Latch **(SN 0300067320 through 0300096000)**	
16		Ref	Cover, Hood (Front Left Side) Options:	
16	2680516	1	Cover without Storage Compartment **(SN 0300072073 through 0300096000)**	A
16	2680466	1	Cover with Storage Compartment (Includes Items 16A, 16B & 16C) **(Prior to SN 0300072073)**	G
16A	2600258	2	Hinge, Door	
16B	1780305	1	Door	
16C	2940073	1	Latch	
17	2680471	1	Cover, Hood (Front Center)	D
18	3300441	4	Nut, Tinnerman	
19	3311405	16	Locknut 1/4in-20NC	
20	3311501	4	Nut 5/16in-18NC	
21	3311505	4	Locknut 5/16in-18NC	
22	3311601	4	Nut 3/8in-16NC	
23	3311605	34	Locknut 3/8in-16NC	
24	3900232	3	Capscrew, Button Head 3/8in-16NC 1-1/4in	
25	3960438	10 ft/3m	Seal, Hood Only **(Prior to SN 0300072073)**	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
26	3960389	27 ft/8.2m	Seal, Hood	
27	4060805	1 ft/30cm	Flex-Trim	
28	4160182	2	Spring, Gas	
29	4740362	16	Washer, Fender	
30	4751400	16	Flatwasher 1/4in Regular	
31	4751500	4	Flatwasher 5/16in Regular	
32	4751600	74	Flatwasher 3/8in Regular	
33	4846092	1	Hood Mounting Weldment (Engine Side)	
34	4846095	1	Hood Mounting Weldment (Tank Side)	
35	4846100	1	Latch, Hood	
36	4846110	1	Exhaust Tube Weldment	
37	4846111	1	Latch, Hood	
38	0750808	4	Screw	
39	0902668	4	Catch, Hood Latch **(Prior to SN 0300067320)**	
40	4740120	4	Washer, Nylon	
41	2820129	NLA	Insulation, Heat Shield (Silver) (Use p/n 1001152837)	
		Ref	**Note: Customer required to cut hole for exhaust stack on replacement head shield p/n 2820181.**	
42	4061010	1	Shield, Heat Gasket	
43	4740500	3	Shoulder Washer, Nylon	
44	0902673	1	Bracket, Front Cover Support	
45	0902674	1	Bracket, Front Cover Support	
46	2820128	NLA	Insulation, Heat Shield (Silver) (Use p/n 1001101835)	
	0270354	Ref	**NOISE REDUCTION INSTALLATION (DEUTZ MACHINES)**	B
101	2820080	1	Insulation, Foam (Black Only) **(Prior to SN 0300072073)**	
102	2820099	9	Insulation, Foam (Black)	

FIGURE 2-19. GENERATOR INSTALLATION - CATERPILLAR MACHINES (OPTIONAL)

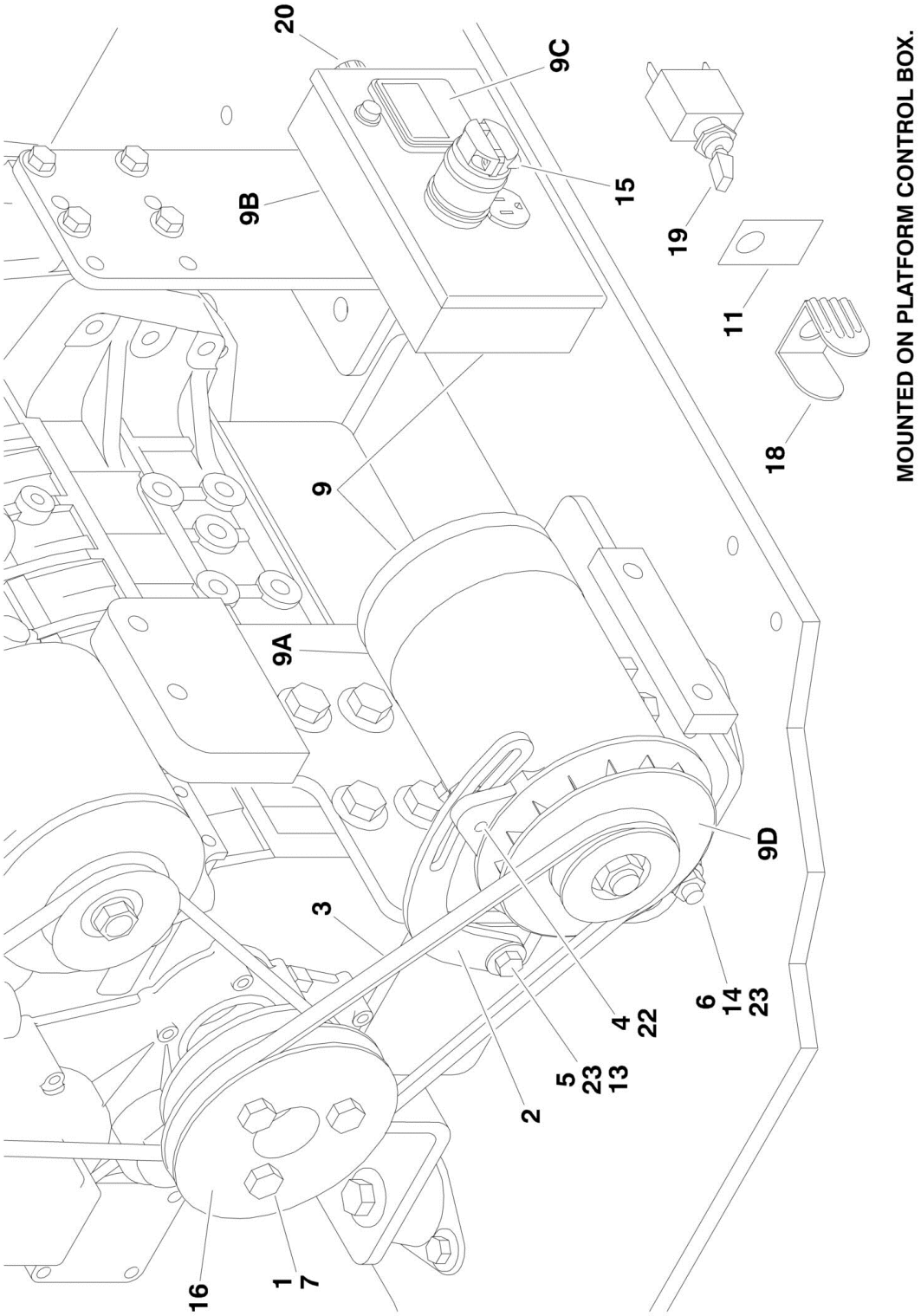


FIGURE 2-19. GENERATOR INSTALLATION - CATERPILLAR MACHINES (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GENERATOR INSTALLATION**	
	0273051	Ref	**220V/50HZ Generator Only (Prior to SN 0300082708)**	B
		Ref	**Note: Aftermarket installation kit not available.**	
1	0100011	AR	Compound, Locking	
2	0200742	1	Arm, Adjusting	
3	0480120	1	V-Belt	
4	0641508	1	Bolt 5/16in-18NC x 1in	
5	0641610	1	Bolt 3/8in-16NC x 1-1/4in	
6	0641772	1	Bolt 7/16in-14NC x 9in	
7	0701217	3	Bolt, Metric 12mm x 45mm	
8	0721008	2	Bolt #10-24NC x 1in	
9	2460013	1	Generator and Control Box Assembly	
9A	1001100321	1	Generator Only - 220V/50Hz	
9A	70000123	1	Armature with Slip Rings	
9A	7012513	4	Cap, Brush Holder	
9A	7020108	4	Brush	
9A	7020109	4	Holder, Brush	
9A	7012514	1	Fan	
9A	7020110	1	Bell, Front	
9A	7020111	1	Bell, Rear	
9A	7020190	2	Bearing	
9A	7020193	1	Cord, Power	
9B	70002235	1	Box, Control - 220V/50Hz	
9B		Ref	Receptacle Options:	
9B	70000124	1	Receptacle, Double (220V/50Hz Only)	
9B	70000125	1	Receptacle, Single (220V/50Hz Only)	
9B	70000126	1	Breaker, Circuit	
9B	3520028	1	Plug, Hole	
9B	2920162	1	Lamp Assembly	
9B	7020191	1	Switch, Toggle	
9C	7020192	1	Voltmeter	
9D	3580134	1	Pulley	
9D	7027887	1	Key, Woodruff	
10	2820031	1	Heat Shrink (Not Shown - Located at Platform)	
11	3251102	1	Decal (Located at Platform)	
12	3311005	2	Locknut #10-24NC	
13	3311605	1	Locknut 3/8in-16NC	
14	3311705	1	Locknut 7/16in-14NC	
15	3520028	1	Plug, Hole	
16	3580315	1	Pulley	
17	3740080	1	Relay (Not Shown - Located Back Side of Engine Tray with Existing Relays)	
18	4060802	1	Guard, Switch (Located at Platform)	
19	4360336	1	Switch, Toggle - SPST (Located at Platform)	
20	4460023	1	Connector, Strain Relief	
21	4751000	8	Flatwasher #10 Regular	
22	4751500	1	Flatwasher 5/16in Regular	
23	4751600	6	Flatwasher 3/8in Regular	

FIGURE 2-20. GENERATOR INSTALLATION - DEUTZ MACHINES (OPTIONAL)

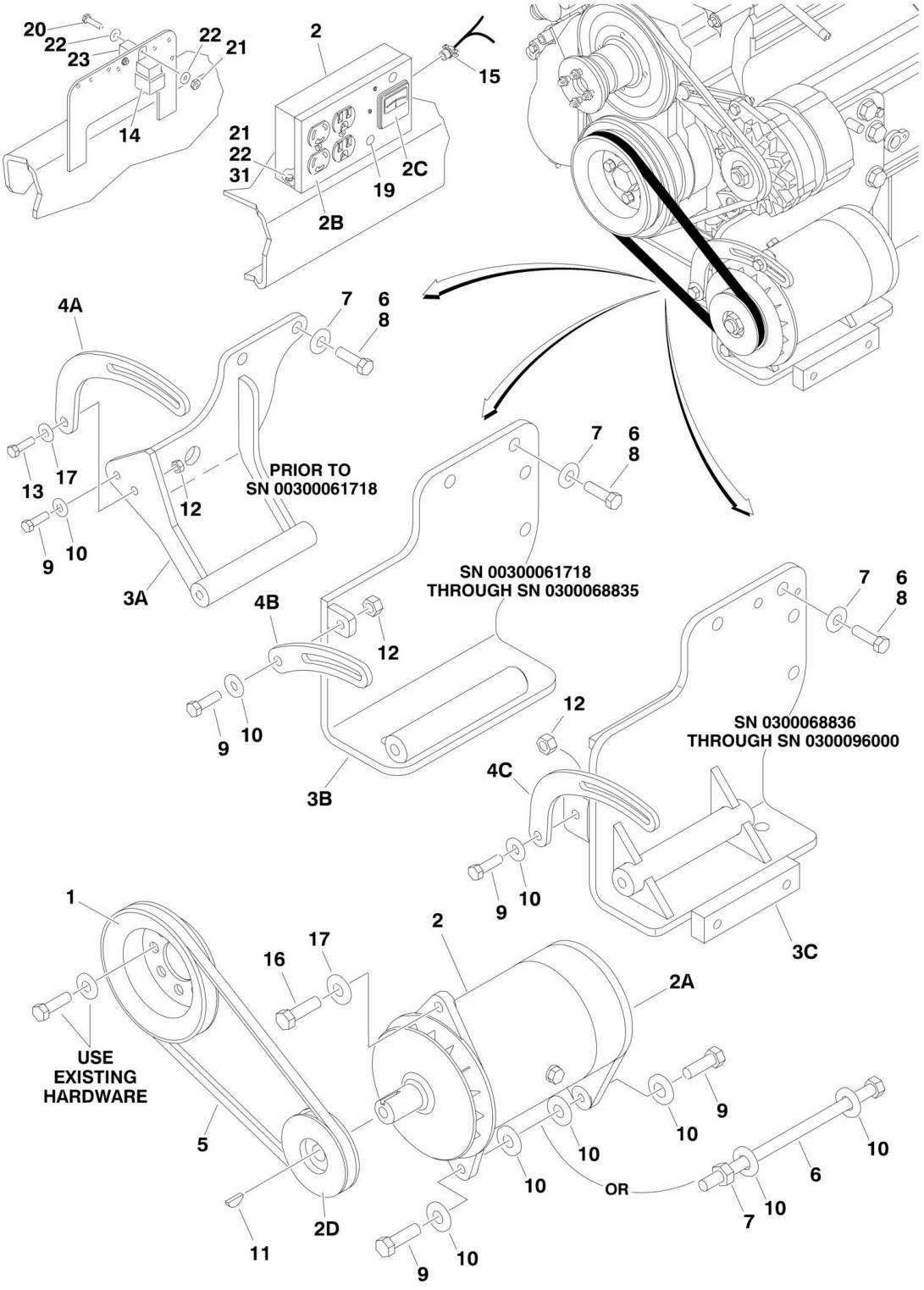


FIGURE 2-20. GENERATOR INSTALLATION - DEUTZ MACHINES (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**GENERATOR INSTALLATION OPTIONS:**	
	0272294	Ref	**110V Generator (SN 0300066478 through 0300068835)**	1/A
	0272616	Ref	**110V Generator (SN 0300068836 through 0300082707)**	3/C
	0274089	Ref	**110V Generator (SN 0300082708 through 0300096000)**	1/A
	0270499	Ref	**220V Generator (Prior to SN 0300064404)**	3/A
	0271347	Ref	**220V Generator (SN 0300064404 through 0300064508)**	3/C
	0272010	Ref	**220V Generator (SN 0300064509 through 0300068835)**	4/B
	0272615	Ref	**220V Generator (SN 0300068836 through 0300082707)**	2/B
	0274085	Ref	**220V Generator (SN 0300082708 through 0300096000)**	1/A
		Ref	**Note: See SPECIAL OPTIONS SECTION for 4000W Generator**	
1	3580158	1	Pulley	
2		Ref	Generator and Control Box Assembly Options:	
2	2460039	1	110Volt Assembly **(Prior to SN 0300082708)**	
2	2460057	1	110Volt Assembly **(SN 0300082708 through 0300096000)**	
2	2460013	1	220Volt Assembly **(Prior to SN 0300066060)**	
2	2460034	1	220Volt Assembly **(SN 0300066060 through 0300066685)**	
2	2460013	1	220Volt Assembly **(SN 0300066686 through 0300082707)**	
2	2460056	1	220Volt Assembly **(SN 0300082708 through 0300096000)**	
2A	2460049	1	Generator Only - 110V	
2A	1001100321	1	Generator Only - 220V	
		Ref	**Note: Replacement Generators come standard with p/n 3580134 pulley. This pulley may not be correct for all applications. Refer to pulley options below.**	
2A		Ref	Armature with Slip Rings Options:	
2A	70000122	1	Armature with Slip Rings - 110V	
2A	70000123	1	Armature with Slip Rings - 220V	
2A	7012513	4	Cap, Brush Holder	
2A	7020108	4	Brush	
2A	7020109	4	Holder, Brush	
2A	7012514	1	Fan	
2A	7020110	1	Bell, Front	
2A	7020111	1	Bell, Rear	
2A	7020190	2	Bearing	
2A	7020193	1	Cord, Power	
2B	7002239	1	Box, Control - 110V **(Prior to SN 0300082708)**	
2B	7019680	1	Box, Control - 110V **(SN 0300082708 through 0300096000)**	
2B	70002235	1	Box, Control - 220V **(Prior to SN 0300082708)**	
2B	70000127	1	Box, Control - 220V **(SN 0300082708 through 0300096000)**	
2B		Ref	Receptacle Options:	
2B	4460190	1	Receptacle, Standard (110V Only)	
2B	4460027	1	Receptacle, Twistlock (110V Only)	
2B	70000124	1	Receptacle, Double (220V/50Hz Only)	
2B	70000125	1	Receptacle, Single (220V/50Hz Only)	
2B		Ref	Breaker, Circuit Options:	
2B	70002240	1	Breaker 110V **(Prior to SN 0300082708)**	
2B	4360542	1	Breaker 110V **(SN 0300082708 through 0300096000)**	
2B	70000126	1	Breaker 220V/50Hz	
2B	3520028	1	Plug, Hole	
2B	2920162	1	Lamp Assembly (Not Required on 2460057 & 2460056 Generator Assemblies)	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2B	7020191	1	Switch, Toggle (Not Required on 2460057 & 2460056 Generator Assemblies)	
2C		Ref	Voltmeter Options:	
2C	2420203	1	Voltmeter - 110V	
2C	7020192	1	Voltmeter - 220V	
2D		Ref	Pulley Options:	
2D	3580134	1	Pulley 110V	
2D	3580134	1	Pulley 220V **(Prior to SN 0300066060)**	
2D	3580276	1	Pulley 220V **(SN 0300066060 through 0300066685)**	
2D	3580134	1	Pulley 220V **(SN 0300066686 through 0300096000)**	
2D	7027887	1	Key, Woodruff	
3		Ref	Bracket, Generator Mounting Options:	
3A	4845531	1	Bracket, Generator Mounting **(Prior to SN 0300064404)**	
3B	4846478	1	Bracket, Generator Mounting (Part of Engine Assembly) **(SN 0300064404 through 0300068835)**	
3C	4846567	1	Bracket, Generator Mounting (Part of Engine Assembly) **(SN 0300068836 through 0300096000)**	
4		Ref	Arm, Adjusting Options:	
4A	0200530	1	Arm, Adjusting **(Prior to SN 0300064404)**	
4B	0200741	1	Arm, Adjusting **(SN 0300064404 through 0300068835)**	
4C	0200742	1	Arm, Adjusting **(SN 0300068836 through 0300096000)**	
5		Ref	V-Belt Options:	
5	0480118	1	V-Belt **(Prior to SN 0300064509)**	
5	0480120	1	V-Belt **(SN 0300064509 through 0300096000)**	
6		Ref	Bolt Options:	
6	0701414	2	Bolt, Metric 14mm x 30mm **(Prior to SN 0300064509)**	
6	0641772	1	Bolt 7/16in-14NC x 9in **(SN 0300064509 through 0300096000)**	
7		Ref	Hardware Options:	
7	4751900	2	Flatwasher 9/16in Regular **(Prior to SN 0300064509)**	
7	3311705	1	Locknut 7/16in-14NC **(SN 0300064509 through 0300096000)**	
8	0100011	AR	Compound, Locking	
9		Ref	Bolt Options:	
9	0681612	3	Bolt 3/8in-16NC x 1-1/2in (Grade 8) **(Prior to SN 0300064509)**	
9	0641610	1	Bolt 3/8in-16NC x 1-1/4in **(SN 0300064509 through 0300096000)**	
10	4751600	6	Flatwasher 3/8in Regular	
11	2860012	1	Key, Woodruff	
12	3311605	1	Locknut 3/8in-16NC	
13	0700819	1	Bolt, Metric 8mm x 55mm **(Prior to SN 0300064509)**	
14	3740080	1	Relay	
15	4460023	1	Connector, Strain Relief	
16	0641508	1	Bolt 5/16in-18NC x 1in	
17	4751500	2	Flatwasher 5/16in Regular	
19	3520028	1	Plug, Hole	
20	0721006	AR	Bolt #10-24NC x 3/4in	
21	3311005	AR	Locknut #10-24NC	
22	4751000	AR	Flatwasher #10 Regular	
23	4360294	1	Breaker, Circuit - 30 Amp	
25	4360336	1	Switch, Toggle - SPST (Not Shown - Located at Platform)	
26	4740397	1	Washer (Not Shown - Located at Platform)	
27	4060802	1	Guard, Switch (Not Shown - Located at Platform)	
29	2820031	1	Heat Shrink (Not Shown - Located at Platform)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
30	3251102	1	Decal (Not Shown - Located at Platform)	
31	0721008	2	Bolt #10-24NC x 1in	
32	1705325	1	Decal - 120V 50HZ (110 Volt Generator Only) (Not Shown)	

FIGURE 2-21. 7500W SKYPOWER GENERATOR INSTALLATION - CATERPILLAR AND DEUTZ ENGINES

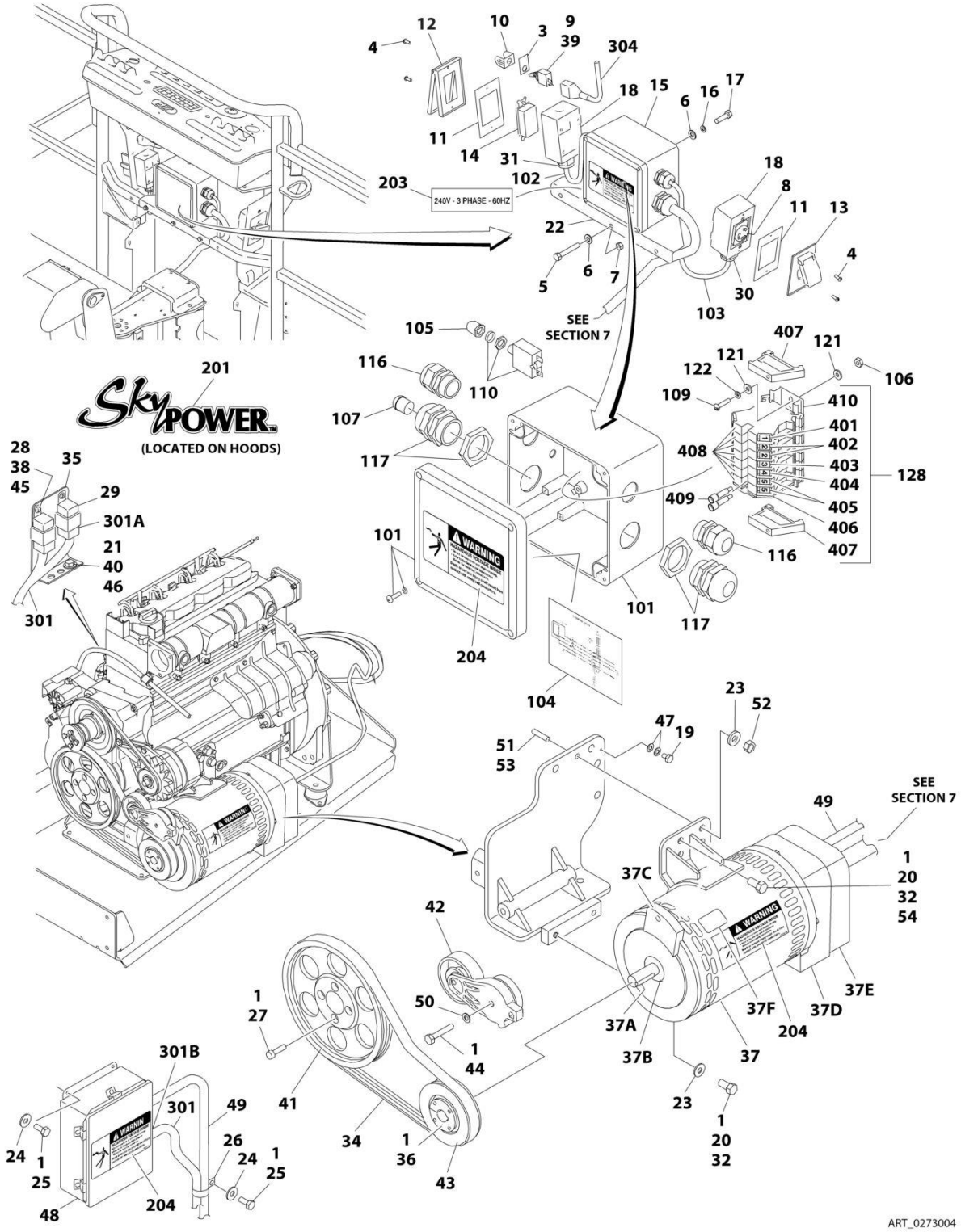


FIGURE 2-21. 7500W SKYPOWER GENERATOR INSTALLATION - CATERPILLAR AND DEUTZ ENGINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**7500W SKYPOWER GENERATOR INSTALLATION**	
	0273004	Ref	**50Hz and Caterpillar Engine (ANSI Export, Australian, CE and Japanese Specs)**	G
	0272596	Ref	**50Hz and Deutz Engine (ANSI Export, Australian, CE and Japanese Specs)**	J
1	0100011	AR	Compound, Locking	
2	4933264	1	Electrical Diagram (Not Shown) (See Items 301-304 For Breakdown)	
3	3252764	1	Nameplate	
4	3910606	8	Screw #6 x 3/8	
5	0641516	3	Bolt 5/16 x 2	
6	4711500	10	Washer 5/16	
7	3311505	3	Locknut 5/16	
8	See Note	NSS	Receptacle, Female Twist-Lock (Note: Not Available - Purchase Locally)	
9	4360336	1	Switch, Toggle	
10	4060802	1	Guard, Switch	
11	See Note	NSS	Gasket (Note: Not Available - Purchase Locally)	
12	See Note	NSS	Cover, Receptacle (Note: Not Available - Purchase Locally)	
13	See Note	NSS	Cover, Receptacle (Note: Not Available - Purchase Locally)	
14	See Note	NSS	Receptacle (Note: Not Available - Purchase Locally)	
15	0861567	1	Junction Box Assembly (See Items 101-128 for Breakdown)	
16	4751500	4	Washer 5/16	
17	0641505	4	Bolt 5/16 x 5/8	
18	See Note	NSS	Box, Switch (Note: Not Available - Purchase Locally)	
19	0641403	1	Bolt 1/4 x 3/8	
20	0641808	1	Bolt 1/2 x 1	
21	0641408	1	Bolt 1/4 x 1	
22	0902888	1	Bracket, Box Mounting	
23	4711800	4	Washer 1/2	
24	4711400	5	Washer 1/4	
25	0641404	5	Bolt 1/4 x 1/2	
26	1320318	1	Clamp	
27		Ref	Bolt Options:	
27	0701217	3	Bolt M12 x 45 (Caterpillar Engine)	
27	4032015	4	Bolt M10 x 55 (Deutz Engine)	
28	0721004	2	Screw #10 x 1/2	
29	3740080	2	Relay	
30	4460051	1	Connector, Strain Relief	
31	4460071	1	Connector, Strain Relief	
32	0100019	AR	Compound, Locking	
33	4240018	1	Tie-Strap (Not Shown)	
34		Ref	Belt Options:	
34	0480126	1	Caterpillar Engine	
34	0480128	1	Deutz Engine	
35		Ref	Bracket (Caterpillar Engine)	
35	3574163	1	Caterpillar Engine	
35	See Note	NSS	Deutz Engine	
36	0962520	1	Bushing, Split Taper	
37		Ref	Generator Assembly Options:	

SECTION 2 - TURNTABLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	2460048	1	Generator Assembly (Caterpillar Engine)	D
37	2460048	1	Generator Assembly (Deutz Engine)	
37	70001100	1	Rotor (Includes p/ns 70001384 & 70000863) (Not Shown)	
37	70001384	1	Bearing, Ball Radial (Not Shown)	
37	70000863	1	Fan (Not Shown)	
37	70002088	1	Stator (Not Shown)	
37	70002297	1	Stud	
37	7024484	NLA	Brushholder Assembly (Not Shown) (Use p/n 70003631)	
37A	7024561	NLA	Key (was p/n 70004171)	
37B	70001966	1	Bearing, Ball Radial (Located in Belt Tensioner Endbell)	
37B	70003708	1	Ring, Internal Retaining (Located in Belt Tensioner Endbell)	
37B	70003709	1	Ring, External Retaining (Located in Belt Tensioner Endbell)	
37C	70001953	1	Endbell, Belt Tensioner	
37D		Ref	Endbell, Brush Block Options	
37D	70001385	NLA	Caterpillar Engine Machines (Use p/n 70004170)	
37D	70001385	NLA	Deutz Engine Machines (Use p/n 70004169)	
37E		Ref	Shroud Options:	
37E	70004170	1	Caterpillar Engine	
37E	70002290	NLA	Deutz Engine (Use p/n 70004169)	
37E	7027799	1	Block, Connector 6 Position (Not Shown)	
37E	7026626	1	Connector - 6 Position with Seal (Not Shown)	
37E	70002460	1	Nut, Brass (Attaches p/n 7027799 to Cover) (Not Shown)	
37E	7024485	1	Breaker, Circuit 30Amp (Not Shown)	
37E	7024486	NLA	Boot, Breaker (Use p/n 70001696 - Not Shown)	
37E	7026597	1	Connector, with Leads (Not Shown)	
37E	7026188	1	Clamp, Cable (Not Shown)	
37E		Ref	Plate, End Panel Options:	
37E	70001972	NLA	Caterpillar Engine (Use p/n 70004170)	
37E	70002255	NLA	Deutz Engine (Use p/n 70004169)	
37E	70001974	1	Decal - Terminal Connections	
37F	70001973	1	Decal - Warning Moving Parts	
38	3311005	2	Nut #10	
39	2820031	1	Insulator	
40	3311405	1	Nut 1/4	
41		Ref	Pulley Options:	
41	3580316	1	Pulley (Caterpillar Engine)	
41	3580320	1	Pulley (Deutz Engine)	
42	3580317	1	Tensioner, Belt	
43	3580318	1	Pulley	
44	0641618	1	Bolt 3/8 x 2-1/4	
45	4751000	4	Washer #10	
46	4751400	2	Washer 1/4	
47	4791400	2	Washer 1/4	
48	0861572	1	Control Box Assembly	
48	7024488	1	Card, Circuit - Generator Power	
48	See Note	NSS	Fuse (Note: Not Available - Purchase Locally)	
48	7024489	1	Card, Circuit - Control	
		Ref	**Note: Same Circuit Card (P/N 7024489) is used for both 60Hz & 50Hz. When replacing card, rocker switch on card must be set for required application.**	
48	70000619	1	Harness, Circuit Card	
49	4922925	1	Harness, Generator	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	4711600	1	Washer 3/8	
51	4300157	1	Stud (Deutz Engine)	
52	3311801	1	Nut 1/2	
53	0100062	1	Loctite, #RC680	
54	0771415	1	Bolt M14 x 35 Grade 10.9 (Deutz Engine)	
	0861567	Ref	**JUNCTION BOX ASSEMBLY**	B
101	0861541	1	Box, Junction	
102	See Note	NSS	Cable, Electrical 12/3 (Note: Not Available - Purchase Locally)	
103	See Note	NSS	Cable, Electrical 10/3 (Note: Not Available - Purchase Locally)	
104	1705376	1	Decal - Wiring Schematic	
105	3300396	1	Cover, Fuse	
106	3310601	2	Nut 6-32NC	
107	3520189	1	Plug	
109	3910610	2	Bolt #6 x 5/8	
110	4360070	1	Circuit Breaker - 15Amp	
116	4460425	2	Strain Relief, Terminal	
117	4460426	2	Connector, Strain Relief	
121	4750600	4	Washer #6 Regular	
122	4760600	2	Washer #6	
128		Ref	Terminal Block Assembly Options (See Items 401-410 for Breakdown):	
128	NPN	1	Gray Terminal Block Assembly	
128	1001121340	1	Tan Terminal Block Assembly	
	0272589	Ref	**DECAL INSTALLATION**	A
201	1705460	2	Decal - SkyPower	
203	1705461	1	Decal - 240V - 3 Phase	
204	1705489	3	Decal, Hazardous Voltage	
	4933264	Ref	**ELECTRICAL DIAGRAM COMPONENTS**	C
301	4922757	1	Generator Harnes (See ELECTRICAL SECTION for Breakdown)	3-C
301A	4460374	2	Plug, Sealed Relay	
301A	4460375	7	Terminal	
301B	4460967	1	Plug, Male - 3 Position	
301B	4460465	3	Socket, Female	
301C	2400060	1	Fuseholder (Not Shown)	
301C	2400064	1	Fuse - 5Amp (Not Shown)	
304	4922641	1	Switch Harness	
		Ref	**TERMINAL BLOCK ASSEMBLY**	
	NPN	Ref	**Gray Terminal Block Assembly (Complete Assembly Not Available - Purchase Individual Components)**	
	1001121340	Ref	**Tan Terminal Block Assembly**	A
401		Ref	Marker Strip #1 Options:	
401	4460411	2	Gray Terminal Block Assembly	
401	70002818	2	Tan Terminal Block Assembly	
402		Ref	Marker Strip #2 Options:	
402	4460412	4	Gray Terminal Block Assembly	
402	70002819	4	Tan Terminal Block Assembly	
403		Ref	Marker Strip #3 Options:	
403	4460413	2	Gray Terminal Block Assembly	
403	70002820	2	Tan Terminal Block Assembly	
404		Ref	Marker Strip #4 Options:	
404	4460414	2	Gray Terminal Block Assembly	
404	70002821	2	Tan Terminal Block Assembly	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
405		Ref	Marker Strip #5 Options:	
405	4460415	AR	Gray Terminal Block Assembly	
405	70002822	4	Tan Terminal Block Assembly	
406		Ref	Terminal, End Barrier Options:	
406	4460956	1	Gray Terminal Block Assembly	
406	70002823	1	Tan Terminal Block Assembly	
407		Ref	Terminal, End Block Options:	
407	4460607	2	Gray Terminal Block Assembly	
407	70002824	2	Tan Terminal Block Assembly	
408		Ref	Terminal, Block Options:	
408	4460957	AR	Gray Terminal Block Assembly	
408	70002825	7	Tan Terminal Block Assembly	
409		Ref	Terminal, Cross Connector Jumper Options:	
409	4461001	2	Gray Terminal Block Assembly	
409	70002826	2	Tan Terminal Block Assembly	
410	3641533	1	Rail, Relay	

SECTION 3 - BOOM

FIGURE 3-1. BOOM INSTALLATIONS

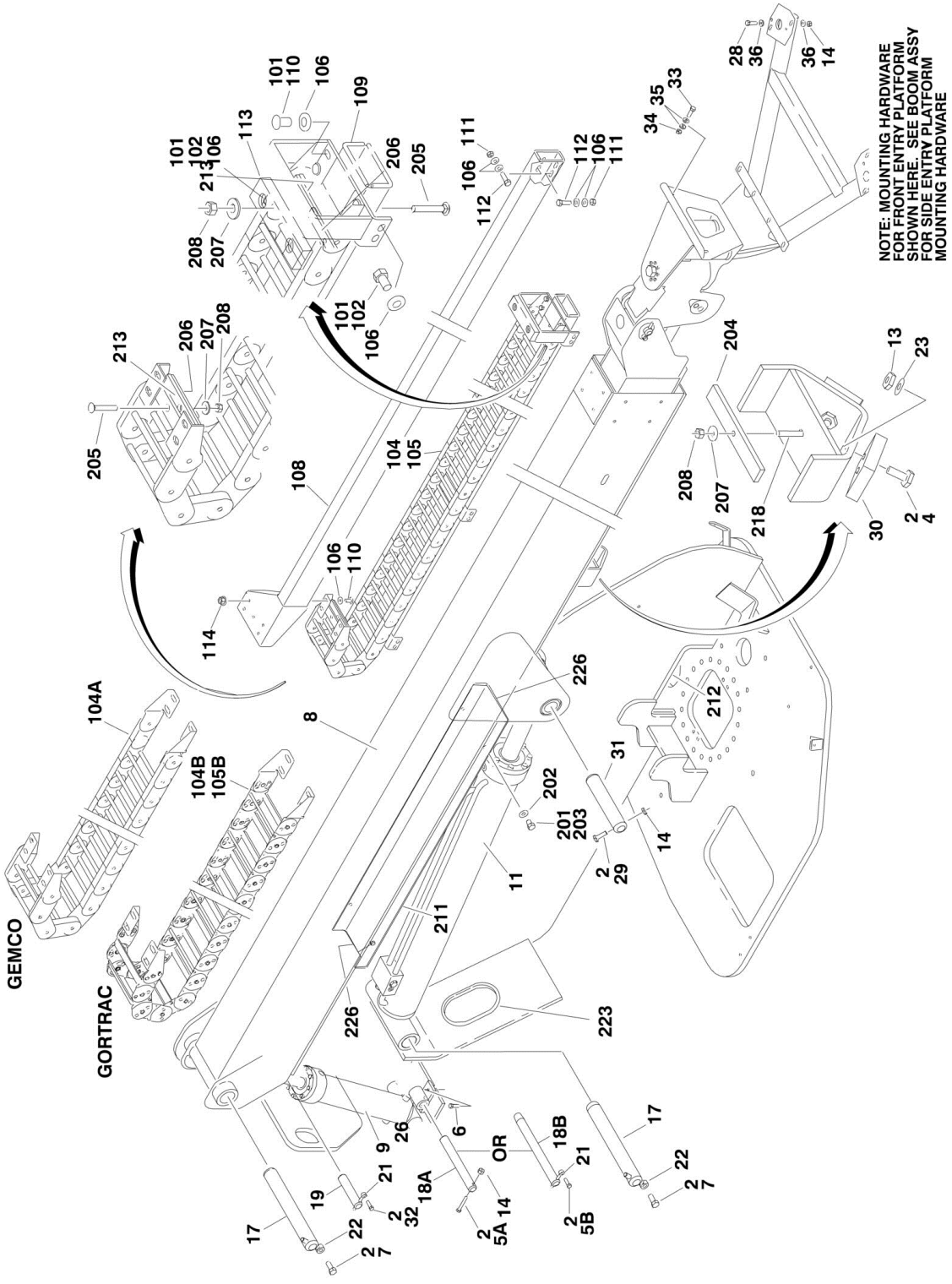


FIGURE 3-1. BOOM INSTALLATIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**BOOM AND CYLINDERS INSTALLATION**	
	0259135	Ref	**Australian Spec 400S (Front Entry Platform)**	H
	0259136	Ref	**Australian Spec 460SJ (Front Entry Platform)**	F
	0270295	Ref	**CE Spec 400S (Front Entry Platform)**	B
	0270296	Ref	**CE Spec 460SJ (Front Entry Platform)**	B
	0272591	Ref	**Australian and CE Specs 400S (Side Entry Platform) (Prior to SN 0300074573)**	A
	0273065	Ref	**Australian and CE Specs 400S (Side Entry Platform) (SN 0300074573 through 0300096000)**	A
	0272592	Ref	**Australian and CE Specs 460SJ (Side Entry Platform) (Prior to SN 0300074573)**	A
	0272999	Ref	**Australian and CE Specs 460SJ (Side Entry Platform) (SN 0300074573 through 0300096000)**	A
2	0100011	AR	Compound, Locking	
4	0641610	4	Bolt 3/8in-16NC x 1-1/4in	
5		Ref	Bolt Options:	
5A	0641620	1	Bolt 3/8in-16NC x 2-1/2in **(Prior to SN 0300074573)**	
5B	0641608	1	Bolt 3/8in-16NC x 1in **(SN 0300074573 through 0300096000)**	
6	0641814	4	Bolt 1/2in-13NC x 1-3/4in **(Prior to SN 0300074573)**	
7	0642012	2	Bolt 5/8in-11NC x 1-1/2in	
8		Ref	Boom Assembly Options:	
8		Ref	Boom Assembly 400S (See BOOM ASSEMBLY - 400S for Breakdown)	
8	0801223	1	Australian Spec (Front Entry Platform)	
8	0801244	1	CE Spec (Front Entry Platform)	
8	0801359	1	Australian/CE Spec (Side Entry Platform)	
8		Ref	Boom Assembly 460SJ (See BOOM ASSEMBLY - 460SJ for Breakdown)	
8	0801186	1	Australian Spec (Front Entry Platform)	
8	0801245	1	CE Spec (Front Entry Platform)	
8	0801360	1	Australian/CE Spec (Side Entry Platform)	
9		Ref	Master Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
9	1683951	1	Cylinder,Master **(Prior to SN 0300074573)**	
9	1684284	NLA	Cylinder,Master (Use p/n 1001140587) **(SN 0300074573 through 0300096000)**	
11	1683776	1	Lift Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
13	3311601	4	Nut 3/8in-16NC	
14	3311605	AR	Locknut 3/8in-16NC	
17	3422564	2	Pin, Pivot	
18		Ref	Pin, Pivot Options:	
18A	3422690	1	Pin, Pivot **(Prior to SN 0300074573)**	
18B	3422566	1	Pin, Pivot **(SN 0300074573 through 0300096000)**	
19	3422561	1	Pin, Pivot	
21	3841143	AR	Keeper, Pin - 3/8in	
22	3841258	2	Keeper, Pin - 5/8in	
23	4711600	8	Flatwasher 3/8in Thin	
26	4846128	2	Cylinder Mount Weldment Only **(Prior to SN 0300074573)**	
28	0681610	6	Bolt 3/8in-16NC x 1-1/4in (Grade 8) (Front Entry Platform)	
29	0681632	1	Bolt 3/8in-16NC x 4in (Grade 8)	
30	3340853	2	Pad, Boom Rest	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
31	3422851	1	Pin, Boom Lift	
32	0641605	1	Bolt 3/8in-16NC x 5/8in	
33	0641820	2	Bolt 1/2in-13NC x 2-1/2in (Front Entry Platform)	
34	3311805	2	Locknut 1/2in-13NC (Front Entry Platform)	
35	4751800	4	Flatwasher 1/2in Regular (Front Entry Platform)	
36	4751600	12	Flatwasher 3/8in Regular (Front Entry Platform)	
		Ref	**POWERTRACK INSTALLATION**	
	0270213	Ref	**Standard Powertrack**	C
	0272897	Ref	**Inverted Powertrack**	B
101	0100011	AR	Compound, Locking	
102	0641605	10	Bolt 3/8in-16NC x 5/8in	
104		Ref	Power Track Assembly Options:	
		Ref	**Note: Original Power Track may have been replaced with a Service Replacement. Visually identify the power track before ordering parts.**	
104	1180336	NLA	Standard Power Track Assembly (Original Equipment) (Use p/n 1001225901)	
104	1001099830	NLA	Standard Power Track Assembly (Service Replacement) (Use p/n 1001225901)	
104	1001225901	1	Standard Power Track Assembly (Service Replacement)	
104A		Ref	Gemco Brand Replacement Parts:	
104A	7006140	AR	Repair Section for p/n 1180336 Power Track (Includes 10 Link Pins, 4 Radius Links, 8 Carrier Links, 4 Rod Carrier, 8 Screws, 10 Slugs and 20 Bearing Plates)	
104A	7006151	2 pr.	Feet, Mounting for p/n 1180336 Power Track (Includes 2 Round Spacers, Left and Right Mounting Feet)	
104A	7006152	AR	Pin Kit for p/n 1180336 Power Track (Includes 1 Pin, 1 Retaining Ring and Set of 4 Washers (Different Sizes)	
104B		Ref	Gortrac Brand Replacement Parts:	
104B	70001994	AR	Repair Section - 1001099830 Power Track	
104B	70001995	1	Mounting Bracket Kit for 1001099830 Power Track	
104B	70006268	AR	Repair Section - 1001225901 Power Track	
104B	70006277	1	Mounting Bracket Kit for 1001225901 Power Track	
105	1180379	1	Inverted Power Track Assembly	
105B	7016505	AR	Repair Section for 1180379 Power Track (Includes extra pin assemblies for each end but no mounting feet)	
105B	7016524	2 pr.	Feet, Mounting for 1180379 Power Track (Includes 1 each of Left and Right Mounting Feet)	
105B	7006137	AR	Pin Kit for 1180379 Power Track (Includes 1 Pin, 1 Retaining Ring and Set of 4 Washers (Different Sizes)	
106	4711600	26	Flatwasher 3/8in Thin	
108	4846216	1	Tube, Push	
109	4846186	1	Tube, Carrier	
110	3900283	8	Screw, Button Head 3/8in-16NC x 3/4in	
111	3311601	4	Nut 3/8in-16NC	
112	0641609	4	Bolt 3/8in-16NC x 1-1/8in	
113	3340453	1	Pad, Wear	
114	3311608	4	Nut, Flanged 3/8in-16NC	
		Ref	**BOOM CABLES INSTALLATION**	
	0259191	Ref	**Boom Cables Installation 400S (Prior to SN 0300064404)**	9
	0271162	Ref	**Boom Cables Installation 400S (SN 0300064404 through 0300096000)**	8
	0272612	Ref	**Boom Cables Installation 400S (7500w 60Hz Generator - SkyPower)**	4

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0259192	Ref	**Boom Cables Installation 460SJ (Prior to SN 0300064404)**	9
	0271161	Ref	**Boom Cables Installation 460SJ (SN 0300064404 through 0300096000)**	8
	0272613	Ref	**Boom Cables Installation 460SJ (7500w 60Hz Generator - SkyPower)**	4
201	0100011	AR	Compound, Locking	
202	4711600	4	Flatwasher 3/8in Thin	
203	0641604	4	Bolt 3/8in-16NC x 1/2in	
204	3572200	1	Clamp, Block	
205	0630566	2	Bolt, Carriage 5/16in-18NC x 2-1/4in	
206	3572345	4	Clamp, Block	
207	4751500	3	Flatwasher 5/16in Regular	
208	3311505	3	Locknut 5/16in-18NC	
211	3572165		Cover	
212	4060919	6 ft/1.8m	Trim, Protection	
213	3340897	2	Pad	
218	0641516	1	Bolt 5/16in-18NC x 2in	
223	4060808	5 ft/1.5m	Trim, Protection	
226	4060805	1.5 ft/ 0.5m	Trim, Protection	

FIGURE 3-2. BOOM ASSEMBLY - 400S

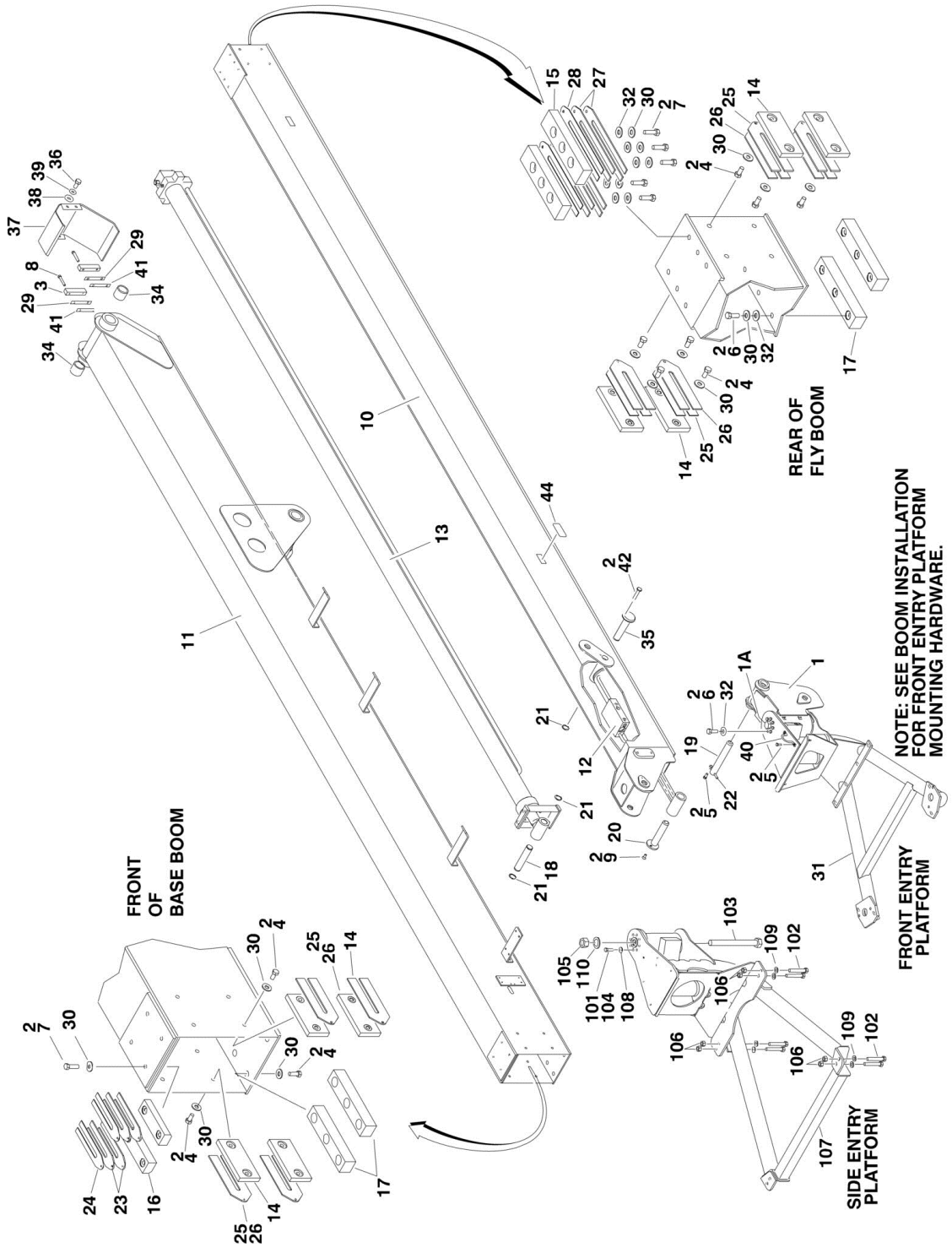


FIGURE 3-2. BOOM ASSEMBLY - 400S

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**BOOM ASSEMBLIES - 400S**	
	0801223	Ref	**Australian Spec (Front Entry Platform)**	N
	0801244	Ref	**CE Spec (Front Entry Platform)**	F
	0801359	Ref	**Australian/CE Spec (Side Entry Platform)**	A
1		Ref	Rotator Assembly Options (See ROTATOR ASSEMBLIES for Breakdown):	
1	0060047	NLA	Rotator Assembly (Use p/n 0060059) **(Prior to SN 0300052800)**	
1	0060059	1	Rotator Assembly **(SN 0300052800 through 0300096000)**	
1A	See Note	AR	Hardware Kit (Note: Use items 103, 105 & 110 as Service Replacement)	
2	0100011	AR	Compound, Locking	
3	0561185	2	Block, Telescope Cylinder Attach	
4	0641606	16	Bolt 3/8in-16NC x 3/4in	
5	0641605	1	Bolt 3/8in-16NC x 5/8in	
6	0641608	20	Bolt 3/8in-16NC x 1in	
7	0641610	10	Bolt 3/8in-16NC x 1-1/4in	
8	0641616	2	Bolt 3/8in-16NC x 2in	
9	0741607	1	Screw, Flathead Socket 3/8in-16NC x 7/8in **(Prior to SN 0300066372)**	
10	0801213	1	Boom, Fly	
11	0801215	1	Boom, Base	
12	1683778	NLA	Level (Platform Slave) Cylinder Assembly (Use p/n 1001140586) (See CYLINDER SECTION for Breakdown)	
13		Ref	Telescope Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
13	1683897	NLA	Telescope Cylinder Assembly (Use p/n 1684194) **(Prior to SN 0300066372)**	
13	1684194	1	Telescope Cylinder Assembly **(SN 0300066372 through 0300096000)**	
14	3340867	8	Pad, Wear (Fly Rear Sides and Base Front Sides)	
15	3340868	2	Pad, Wear (Fly Rear Top)	
16	3340869	2	Pad, Wear (Base Front Top)	
17	3340870	4	Pad, Wear (Fly Rear Bottom and Base Front Bottom)	
18	3422457	1	Pin, Telescope Cylinder	
19	3422582	1	Pin, Pivot	
20	3422865	1	Pin, Pivot	
21	3760133	3	Ring, Retaining	
22	3841143	1	Keeper, Pin	
23	4070497	4	Shim 1/8in	
24	4070498	2	Shim 1/16in	
25	4070501	8	Shim 1/8in	
26	4070502	2	Shim 1/16in	
27	4070503	4	Shim 1/8in	
28	4070504	2	Shim 1/16in	
29	4070929	2	Shim 1/8in	
30	4751600	26	Flatwasher 3/8in Regular	
31		Ref	Support Weldment Options:	
31	4846137	1	Australian Spec with Front Entry Platform	
31	4846263	1	CE Spec with Front Entry Platform	
31	See Note	1	All Side Entry Platform (Note: See Items 101-110 for Breakdown)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	4711600	20	Flatwasher 3/8in Thin	
33	0961951	2	Bushing	
34	0961950	2	Bushing	
35	3422859	1	Pin	
36	0641406	4	Bolt 1/4in-20NC x 3/4in	
37	4060995	1	Shield, Rear	
38	4751400	4	Flatwasher 1/4in Regular	
39	4761400	4	Lockwasher 1/4in	
40	3841340	1	Rod, Hose Loop (Front Entry Platform)	
41	4071007	2	Shim, 20 Gauge	
42	0741605	AR	Screw, Flathead Socket 3/8in-16NC x 5/8in	
44	1670836	6	Cover **(SN 0300066372 through 0300096000)**	
		Ref	**PLATFORM SUPPORT INSTALLATIONS (SIDE ENTRY PLATFORM)**	
	0272070	Ref	**Australian Spec**	B
	See Note	Ref	**CE Spec**	
	See Note	Ref	**Machines without Load Sensing and with SkyGlazier (Note: For Replacement Parts, Contact JLG Customer Service and Request Manual p/n 3124242)**	
	See Note	Ref	**Machines with Load Sensing and without SkyGlazier (Note: For Replacement Parts, Contact JLG Customer Service and Request Manual p/n 3124287)**	
	See Note	Ref	**Machines with Load Sensing and with SkyGlazier (Note: For Replacement Parts, Contact JLG Customer Service and Request Manual p/n 3124287)**	
101	0100011	AR	Compound, Locking	
102	0641812	8	Bolt 1/2in-13NC x 1-1/2in	
103	0642682	1	Bolt 1in-8NC x 10-1/4in	
104	0681608	8	Bolt 3/8in-16NC x 1in	
105	3272605	1	Locknut 1in-8NC	
106	3311805	8	Locknut 1/2in-13NC	
107		Ref	Support Weldment	
107	4846573	1	Australian Spec	
107	See Note	1	CE Spec (Note: See JLG Supplement p/n 3124287)	
108	4891600	8	Flatwasher 3/8in Hardened	
109	4891800	8	Flatwasher 1/2in Hardened	
110	4892600	1	Flatwasher 1in Hardened	

FIGURE 3-3. BOOM ASSEMBLY - 460SJ

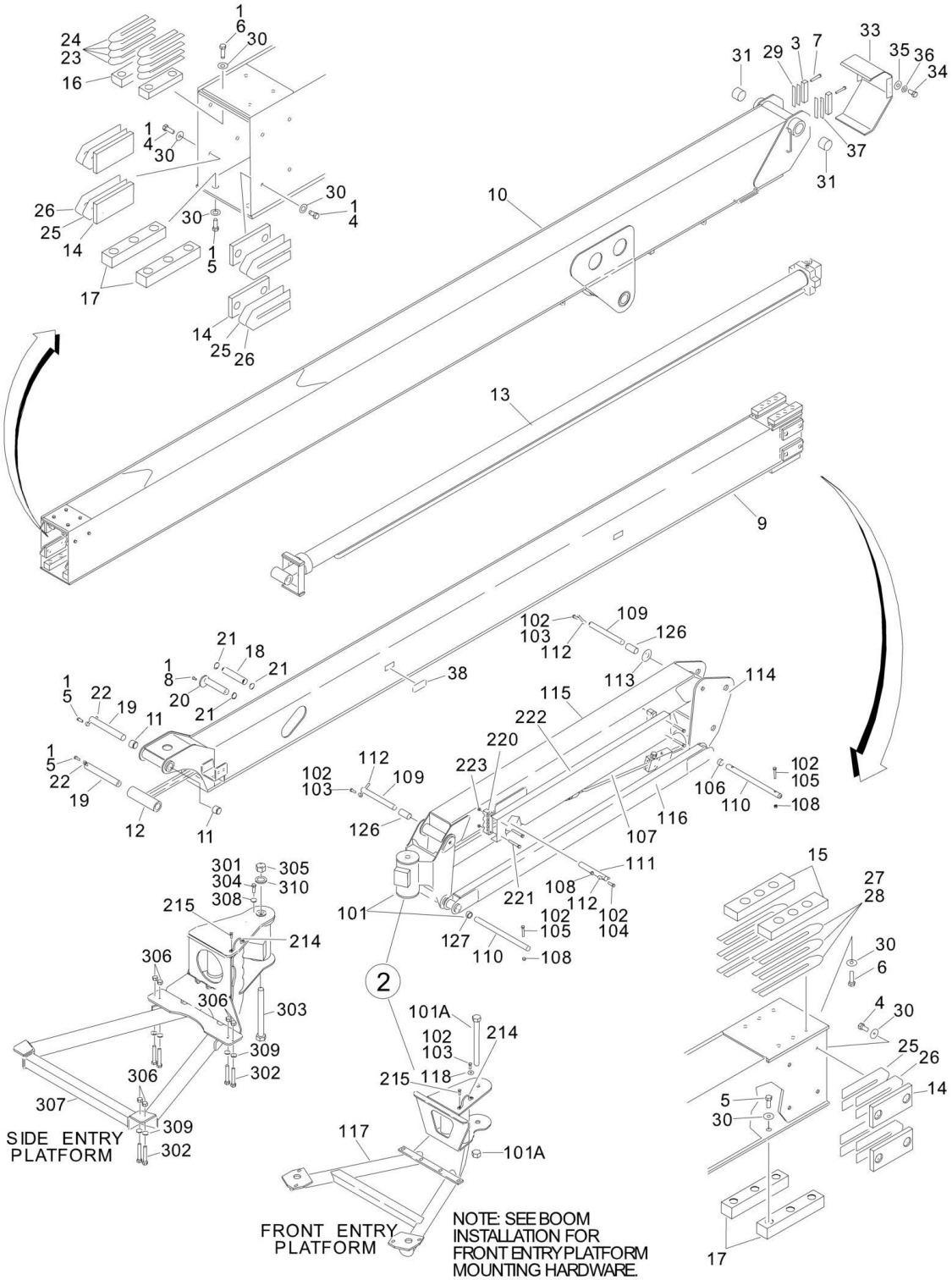


FIGURE 3-3. BOOM ASSEMBLY - 460SJ

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**BOOM ASSEMBLIES - 460SJ**	
	0801186	Ref	**Australian Spec (Front Entry Platform)**	K
	0801245	Ref	**CE Spec (Front Entry Platform)**	D
	0801360	Ref	**Australian/CE Spec (Side Entry Platform)**	K
1	0100011	AR	Compound, Locking	
2		Ref	Jib Assembly Options (See Items 101-127 for Breakdown):	
2	0259856	1	Australian Spec with Front Entry Platform	
2	0270294	1	CE Spec with Front Entry Platform	
2	0272593	1	All Specs with Side Entry Platform	
3	0561185	2	Block, Telescope Cylinder Attach	
4	0641606	16	Bolt 3/8in-16NC x 3/4in	
5	0641608	14	Bolt 3/8in-16NC x 1in	
6	0641610	10	Bolt 3/8in-16NC x 1-1/4in	
7	0641616	2	Bolt 3/8in-16NC x 2in	
8	0741605	1	Screw, Flathead Socket 3/8in-16NC x 5/8in	
9	0801214	1	Boom, Fly	
10	0801216	1	Boom, Base	
11	0961951	2	Bushing	
12	1684013	1	Platform Level Cylinder Assembly (See CYLINDER SECTION for Breakdown)	
13		Ref	Telescope Cylinder Assembly Options (See CYLINDER SECTION for Breakdown):	
13	1683897	NLA	Front Entry Platform (Use p/n 1684194)	
13	1684194	1	Side Entry Platform	
14	3340867	8	Pad, Wear (Fly Rear Sides and Base Front Sides)	
15	3340868	2	Pad, Wear (Fly Rear Top)	
16	3340869	2	Pad, Wear (Base Front Top)	
17	3340870	4	Pad, Wear (Fly Rear Bottom and Base Front Bottom)	
18	3422457	1	Pin, Telescope Cylinder	
19	3422561	2	Pin, Pivot	
20	3422859	1	Pin, Pivot	
21	3760133	3	Ring, Retaining	
22	3841143	2	Keeper, Pin	
23	4070497	4	Shim 1/8in	
24	4070498	4	Shim 1/16in	
25	4070501	8	Shim 1/8in	
26	4070502	8	Shim 1/16in	
27	4070503	2	Shim 1/8in	
28	4070504	4	Shim 1/16in	
29	4070929	2	Shim 1/8in	
30	4751600	26	Flatwasher 3/8in Regular	
31	0961950	2	Bearing	
32	4711600	12	Flatwasher 3/8in Regular	
33	4060995	1	Cover, Rear	
34	0641406	4	Bolt 1/4in-20NC x 3/4in	
35	4751400	4	Flatwasher 1/4in Regular	
36	4761400	4	Lockwasher 1/4in	
37	4071007	2	Shim, 20 Gauge	
38	1670836	6	Cover **(SN 0300066372 through 0300096000)**	
		Ref	**JIB ASSEMBLIES**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0259856	Ref	**Australian Spec with Front Entry Platform**	G
	0270294	Ref	**CE Spec with Front Entry Platform**	C
	0272593	Ref	**All Specs with Side Entry Platform**	A
101	0060048	1	Rotator Assembly (See ROTATOR ASSEMBLIES for Breakdown)	
101A	See Note	AR	Hardware Kit (Note: Use items 303, 305 & 310 as Service Replacement)	
102	0100011	AR	Compound, Locking	
103	0641608	AR	Bolt 3/8in-16NC x 1in	
104	0641610	1	Bolt 3/8in-16NC x 1-1/4in	
105	0641618	4	Bolt 3/8in-16NC x 2-1/4in	
106	0961947	AR	Bushing	
		Ref	**Note: When replacing 106, recommend using qty 4. Original Equipment qty was 2.**	
107	1683609	NLA	Jib Lift Cylinder Assembly (Use p/n 1001248012) (Original Equipment) (See CYLINDER SECTION for Breakdown)	
107	1001228012	NLA	Jib Lift Cylinder Assembly (Use p/n 1001248012) (Service Replacement) (See CYLINDER SECTION for Breakdown)	
107	1001248012	1	Jib Lift Cylinder Assembly (Service Replacement) (See CYLINDER SECTION for Breakdown)	
108	3311605	5	Locknut 3/8in-16NC	
109	3422860	2	Pin, Pivot	
110	3422861	2	Pin, Pivot	
111	3422867	1	Pin, Pivot	
112	3841143	3	Keeper, Pin - 3/8in	
113	4740439	2	Thrustwasher	
114	4844815	1	Pivot Weldment	
115	4844816	1	Tube (Top) (Includes Item 126 p/n 0962335)	
116	4844817	2	Tube (Bottom)	
117		Ref	Support Weldment Options:	
117	4846137	1	Australian Spec with Front Entry Platform	
117	4846263	1	CE Spec with Front Entry Platform	
117	See Note	1	All Specs with Side Entry Platform (Note: See Items 301-310)	
118	4711600	8	Flatwasher 3/8in Thin (Front Entry Platform)	
126	0961947	NLA	Bushing (Part of Item 115) (Use p/n 0962335)	
127	0961947	2	Bushing (Part of Item 101)	
		Ref	**BOOM CABLES INSTALLATION**	
	0259192	Ref	**Boom Cables Installation 460SJ (Prior to SN 0300064404)**	9
	0271161	Ref	**Boom Cables Installation 460SJ (SN 0300064404 through 0300096000)**	8
	0272613	Ref	**Boom Cables Installation 460SJ (7500w 60Hz Generator - SkyPower)**	4
214	3841340	1	Rod, Hose Loop	
215	0641605	2	Bolt 3/8in-16NC x 5/8in	
220	0561237	2	Clamp, Block	
221	0641416	4	Bolt 1/4in-20NC x 2in	
222	1670769	1	Cover	
223	2080044	4	Fastener, Rivnut	
		Ref	**PLATFORM SUPPORT INSTALLATIONS (SIDE ENTRY PLATFORM)**	
	0272070	Ref	**Australian Spec**	
	See Note	Ref	**CE Spec(Note: Refer to JLG Supplement p/n 3124287 unless equipped with SkyGlazier**	B
301	0100011	AR	Compound, Locking	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
302	0641812	8	Bolt 1/2in-13NC x 10-1/2in	
303	0642682	1	Bolt 1in-8NC x 10-1/4in	
304	0681608	8	Bolt 3/8in-16NC x 1in	
305	3272605	1	Locknut 1in-8NC	
306	3311805	8	Locknut 1/2in-13NC	
307		Ref	Support Weldment	
307	4846573	1	Australian Spec	
307	See Note	1	CE Spec (Note: See JLG Supplement p/n 3124287)	
308	4891600	8	Flatwasher 3/8in Hardened	
309	4891800	8	Flatwasher 1/2in Hardened	
310	4892600	1	Flatwasher 1in Hardened	

FIGURE 3-4. ROTATOR ASSEMBLIES

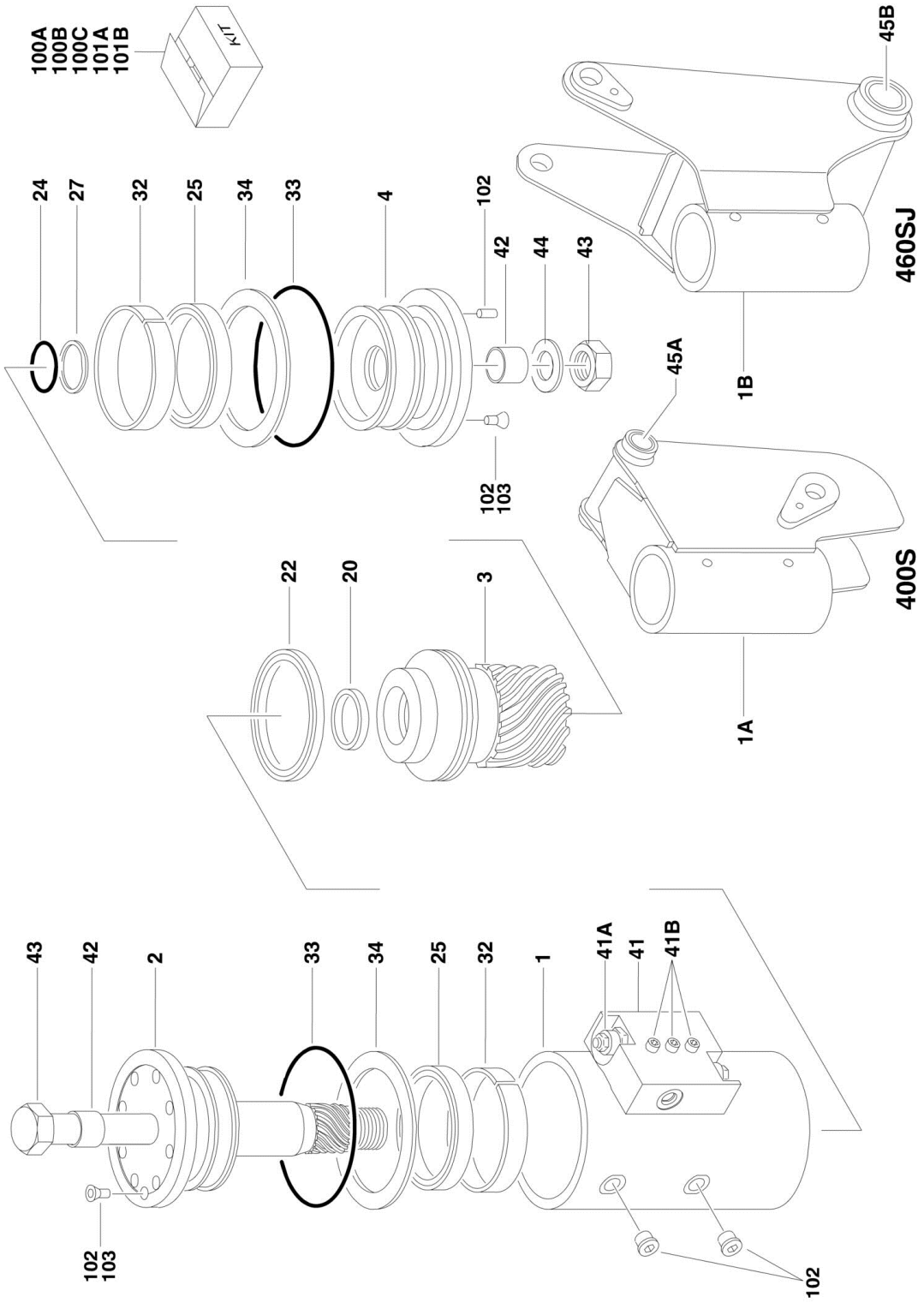


FIGURE 3-4. ROTATOR ASSEMBLIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**ROTATOR ASSEMBLIES**	
	See Note	Ref	**Rotator Assemblies 400S (Note: Was p/n 0060047 - use p/n 0060059 as Service Replacement) (Prior to SN 0300054365)**	E
	0060059	Ref	**Rotator Assemblies 400S (SN 0300054365 through 0300096000)**	E
	0060048	Ref	**Rotator Assemblies 460SJ**	G
1	See Note	1	Housing/Ring Gear Assembly (Note: Not Available - Purchase Complete Rotator Assembly)	
2		Ref	Shaft Weldment Options:	
2	7017140	1	Shaft Weldment **(Prior to SN 0300052800)**	
2	7017162	1	Shaft Weldment **(SN 0300052800 through 0300096000)**	
3		Ref	Piston/Sleeve Assembly Options:	
3	7017139	1	Piston/Sleeve Assembly **(Prior to SN 0300052800)**	
3	7017163	1	Piston/Sleeve Assembly **(SN 0300052800 through 0300096000)**	
4		Ref	Cap, End Options:	
4	7017148	1	Cap, End **(Prior to SN 0300052800)**	
4	7017164	1	Cap, End **(SN 0300052800 through 0300096000)**	
20	See Note	1	T-Seal (Note: Use Item 100A, 100B or 100C)	
22	See Note	1	T-Seal (Note: Use Item 100A, 100B or 100C)	
24	See Note	1	O-Ring (Note: Use Item 100A, 100B or 100C)	
25	See Note	2	Seal (Note: Use Item 100A, 100B or 100C)	
27	See Note	1	Ring, Back-up (Note: Use Item 100A, 100B or 100C)	
32	See Note	2	Ring, Wear (Note: Use Item 101A or 101B)	
33	See Note	2	Ring, Wiper (Note: Use Item 100A, 100B or 100C)	
34	See Note	2	Thrustwasher (Note: Use Item 101A or 101B)	
41		Ref	Valve Assembly Options:	
41	7017125	NLA	Valve Used (Use p/n 7017172) **(Prior to SN 0300052800)**	
41	7017172	1	Valve used **(SN 0300052800 through 0300096000)**	
41A		Ref	Cartridge, Valve Options:	
41A	7011323	2	Cartridge Used **(Prior to SN 0300052800)**	
41A	2900770	2	Seal Kit - 7011323 Valve	
41A	7017192	2	Cartridge Used **(SN 0300052800 through 0300096000)**	
41A	See Note	2	Seal Kit - 7017192 Valve (Note: Not Available for Purchase)	
41B	See Note	3	Bolt 1/4 x 1-1/2 (Grade 8) (Note: Not Available - Purchase Locally)	
42		Ref	Bushing Options:	
42	7017136	2	Bushing **(Prior to SN 0300052800)**	
42	7017195	2	Bushing **(SN 0300052800 through 0300096000)**	
43	See Note	1	Bolt and Nut (Note: Was p/n 7017143 for Machines Built Prior to SN 0300068836. P/N 7017143 is no longer available. Use hardware called out on Boom Assembly for Service Replacement)	
44	4892600	1	Flatwasher, Hardened Only - See Boom Assembly for **(Prior to SN 0300068836, SN 0300068836 through 0300096000)**	
45		Ref	Bushing Options:	
45A	0961951	2	Bushing 400S	
45B	0961947	2	Bushing 460SJ	
100		Ref	Seal Kit Options (Includes Items 20, 22, 24, 25, 27 & 33):	
100A	7017137	1	Standard **(Prior to SN 0300052800)**	
100B	7017158	1	Standard **(SN 0300052800 through 0300096000)**	

SECTION 3 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
100C	70000342	1	Low Temperature **(SN 0300052800 through 0300096000)**	
101		Ref	Bearing Kit Options (Includes Items 32 & 34):	
101A	7017138	1	Bearing Kit **(Prior to SN 0300052800)**	
101B	7017159	1	Bearing Kit **(SN 0300052800 through 0300096000)**	
102	7017142	1	Hardware Kit	
103	70001697	4	Screw, Countersunk 1/4in-20NC x 3/8in (Grade 8)	

FIGURE 3-5. PLATFORM SUPPORT INSTALLATION - WITH LSS

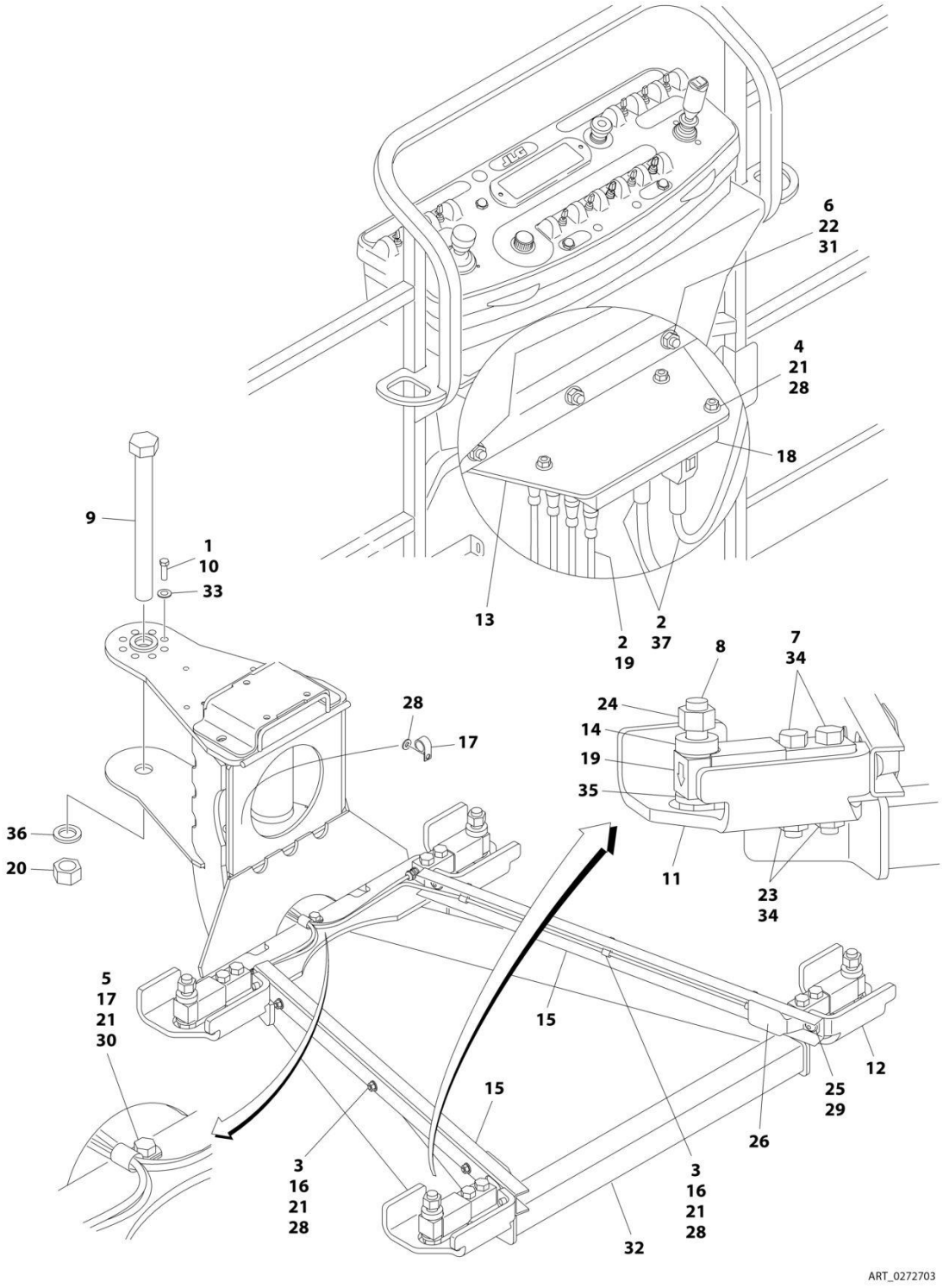


FIGURE 3-5. PLATFORM SUPPORT INSTALLATION - WITH LSS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272703	Ref	**PLATFORM SUPPORT INSTALLATION - WITH LSS & WITHOUT SKYGLAZIER**	K
1	0100011	AR	Compound, Locking	
2	0100048	AR	Grease, Dielectric	
3	0641405	6	Bolt 1/4 x 5/8	
4	0641416	3	Bolt 1/4 x 2	
5	0641407	1	Bolt 1/4 x 7/8	
6	0641516	3	Bolt 5/16 x 2	
7	0641822	8	Bolt 1/2 x 2-3/4	
8	0642024	4	Bolt 5/8 x 3	
9	0642684	1	Bolt 1 x 10-1/2	
10	0681608	8	Bolt 3/8 x 1 Grade 8	
11	0902919	2	Bracket, Cell Guard	
12	0902920	2	Bracket, Cell Guard	
13	0902894	1	Bracket, Module Mount	
14	0962450	4	Bushing, Spacer	
15	1271538	2	Channel	
16	1320136	6	Clamp	
17	1320224	2	Clamp	
18	1600387	1	Module, Control - LSS (Note: Recalibration Required When Replaced)	
19	2420202	4	Cell, Load (Includes Cable)	
20	3272605	1	Nut 1 Grade 8	
21	3311405	10	Nut 1/4	
22	3311508	3	Nut 5/16	
23	3311805	8	Nut 1/2	
24	3312005	4	Nut 5/8	
25	3900283	4	Screw 3/8 x 3/4	
26	4061054	2	Shield	
27	4240033	AR	Tie-Strap (Not Shown)	
28	4711400	10	Washer 1/4	
29	4711600	4	Washer 3/8	
30	4751400	1	Washer 1/4	
31	4751500	3	Washer 5/16	
32	4846573	1	Support, Platform	
33	4891600	8	Washer 3/8	
34	4891800	8	Washer 1/2	
35	4892000	4	Washer 5/8	
36	4892600	1	Washer 1	
37	4922869	1	LSS Harness	
37	4922705	1	Analyzer Harness (Not Shown)	
37	4460761	1	Receptacle, Female - 4 Position (Not Shown)	
37	4460226	2	Socket, Female	
37	4460836	1	Connector - 12 Position (Black) (J2)	
37	4460465	2	Socket, Female	
37	4460466	10	Plug, Terminal	
37	0840055	1	Boot	
37	4460933	1	Connector - 12 Position (Grey) (J1)	
37	4460465	3	Socket, Female	
37	4460466	9	Plug, Terminal	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	0840055	1	Boot	

SECTION 4 - PLATFORM

FIGURE 4-1. PLATFORM INSTALLATION (FRONT ENTRY PLATFORM)

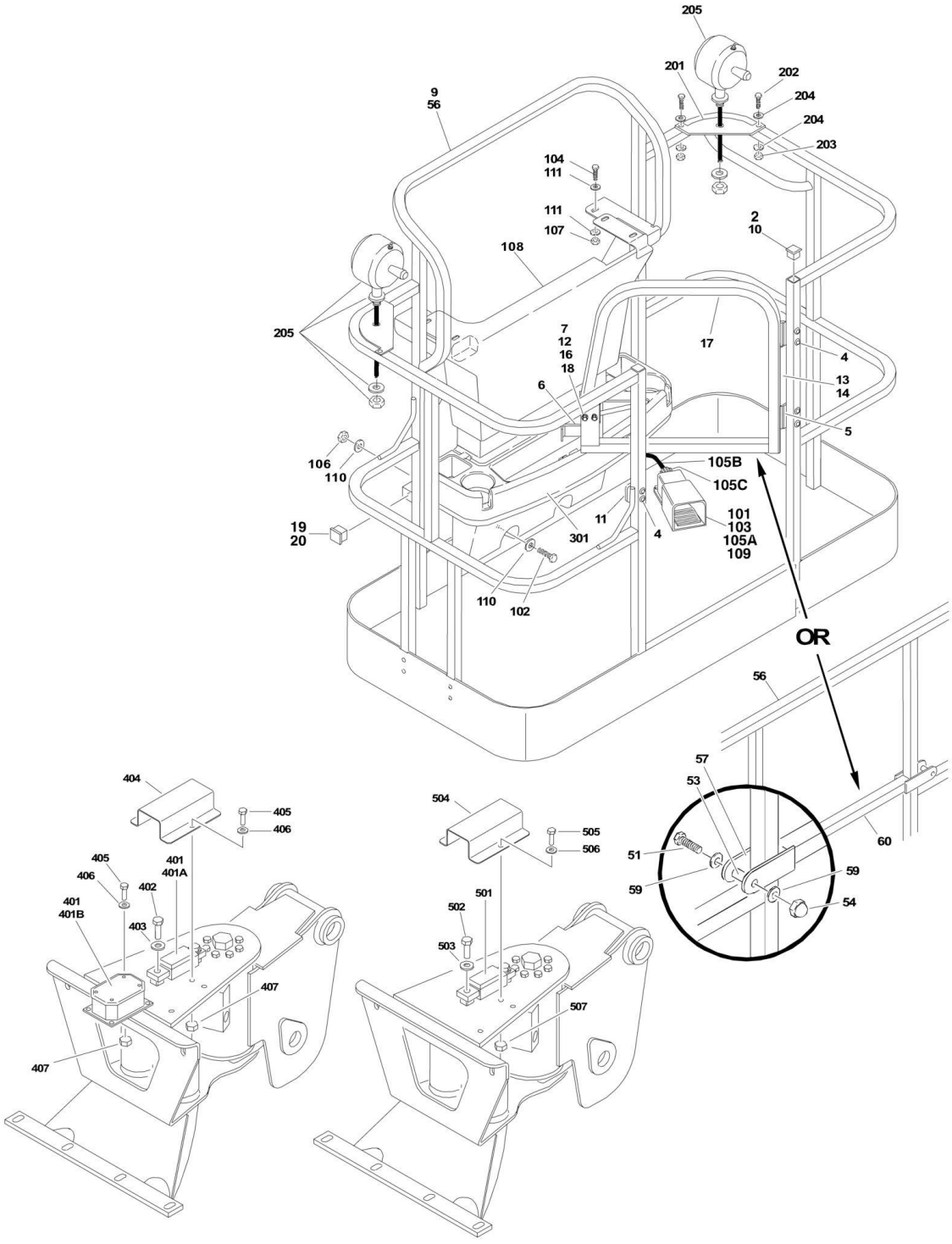


FIGURE 4-1. PLATFORM INSTALLATION (FRONT ENTRY PLATFORM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PLATFORM ASSEMBLIES (WITH GATE)**	
	3510714	Ref	**4ft (1.22m) with No Mesh (Australian Specs)**	C
	3510725	Ref	**4ft (1.22m) with Mesh to Top Rail (Australian Specs)**	C
	3510742	Ref	**6ft (1.83m) with No Mesh (Australian Specs)**	E
	3510754	Ref	**6ft (1.83m) with Mesh to Top Rail (Australian Specs)**	F
	3510749	Ref	**8ft (2.44m) with No Mesh (Australian Specs)**	E
	3510753	Ref	**8ft (2.44m) with Mesh to Top Rail (Australian Specs)**	F
		Ref	**Note: Replacement Decals Must be purchased separately - See DECAL SECTION.**	
2	0100040	AR	Sealant, RTV Silicone	
4	2080040	13	Fastener, Huck	
5		Ref	Hinge Options:	
5	2600219	2	Hinge **(Prior to SN 0300068521)**	
5	2600287	2	Hinge **(SN 0300068521 through 0300096000)**	
6	2940074	1	Latch	
7	3311005	4	Locknut #10-24NC	
9	See Note	1	Platform Weldment (Note: Not Available - Purchase Platform Assembly)	
10	3520072	3	Cap-Plug	
11	3539685	1	Plate, Latch	
12	3911008	4	Screw #10-24NC x 1in	
13	4060803	6 in/15cm	Trim	
14	4220165	1	Stop, Gate	
16	4751000	8	Flatwasher #10 Regular	
17		Ref	Gate Weldment Options:	
17	4845426	1	No Mesh/Self-Closing Gate	
17	4845951	1	Mesh to Top Rail/Self-Closing Gate	
18	4761000	4	Lockwasher #10	
19	0100010	AR	Adhesive	
20	3520172	2	Plug	
		Ref	**PLATFORM ASSEMBLIES (WITH LIFT BAR)**	
	3510696	Ref	**4ft (1.22m) (CE Specs)**	B
	3510716	Ref	**6ft (1.83m) (CE Specs)**	1/B
	3510717	Ref	**8ft (2.44m) (CE Specs)**	1/B
	3510774	Ref	**8ft (2.44m) (CE Specs)**	A
51	0641418	2	Bolt 1/4in-20NC x 2-1/4in	
53	0961845	2	Bushing	
54	3300151	2	Nut, Acorn 1/4in-20NC	
56	See Note	1	Platform Weldment Note: Not Available - Purchase Platform Assembly)	
57	4420055	4	Tape	
59	4740411	4	Washer, Nylon	
60	4845288	1	Weldment, Slidebar	
		Ref	**FOOTSWITCH AND COVERS INSTALLATION**	
	0272035	Ref	**Aluminum Box Installation**	A
	0272036	Ref	**Poly Box Installation**	A
101	0100020	AR	Sealant, Pipe	
102	0641406	4	Bolt 1/4in-20NC x 3/4in	
103	0641408	3	Bolt 1/4in-20NC x 1in	
104	0641610	4	Bolt 3/8in-16NC x 1-1/4in	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
105		Ref	Console Box Assembly (Not Shown - See PLATFORM CONSOLE ASSEMBLY WITHOUT ADE SYSTEM AND PLATFORM CONSOLE ASSEMBLY WITH ADE SYSTEM For Breakdown)	
105A	4360031	1	Footswitch Options:	
105A	7000625	2	Block, Contact for 4360031 Footswitch	
105B	1060918	8 ft/2.4m	Cable, Electrical - 18/3	
105C	4460071	1	Connector, Strain Relief	
106	3311405	4	Locknut 1/4in-20NC	
107	3311605	4	Locknut 3/8in-16NC	
108	3380434	1	Panel, Poly	
109	4740362	7	Washer, Fender	
110	4751400	5	Flatwasher 1/4in Regular	
111	4751600	8	Flatwasher 3/8in Regular	
		Ref	**WORKLIGHTS INSTALLATION (optional)**	
	0258309	Ref	**Standard (Prior to SN 0300064404)**	1/A
	0270814	Ref	**ADE System (SN 0300064404 through 0300096000)**	3/E
201	3536089	2	Plate, Mounting	
202	0641414	4	Bolt 1/4in-20NC x 1-3/4in	
203	3311405	4	Locknut 1/4in-20NC	
204	4711400	8	Flatwasher 1/4in Thin	
205	2920140	2	Worklight	
206	4240099	10	Tie-Strap (Not Shown)	
207	2820035	9	Loom, Vinyl (Not Shown)	
209	4460598	1	Connector, Strain Relief (Not Shown - Located at Console Box)	
210	4920018	18 in/46cm	Wire, Black (Not Shown)	
		Ref	**TRAY INSTALLATIONS (OPTIONAL)**	
301	1580012	1	Tray, Storage (Center)	
302	1580013	1	Tray, Storage (Rail Mounted - Not Shown)	
		Ref	**PLATFORM OVERLOAD INSTALLATION**	
	0270392	Ref	**Overload (Prior to SN 0300058378)**	B
	0259233	Ref	**Overload (SN 0300058378 through 0300062885)**	4/C
	0270392	Ref	**Overload (SN 0300062886 through 0300064259)**	B
	0271474	Ref	**Overload - Lift Down (Prior to SN 0300062886)**	2/B
	0271542	Ref	**Overload - Lift Down (SN 0300062886 through 0300064259)**	1/A
401		Ref	Load Sensing Assembly Options:	
401	2901943	1	Load Sensing Assembly **(Prior to SN 0300058378)**	
401	2901811	1	Load Sensing Assembly **(SN 0300058378 through 0300062885)**	
401	2901943	1	Load Sensing Assembly **(SN 0300062886 through 0300096000)**	
401A		Ref	Transducer, Pressure	
401A	See Note	1	Transducer, Pressure (Note: Not Available for Purchase) **(Prior to SN 0300058378)**	
401A	3990109	1	Transducer, Pressure **(SN 0300058378 through 0300062885)**	
401A	See Note	1	Transducer, Pressure (Note: Not Available for Purchase) **(SN 0300062886 through 0300096000)**	
401B		Ref	Card, Control Options:	
401B	See Note	1	Card, Control (Note: Not Available for Purchase) **(Prior to SN 0300058378)**	
401B	7023332	1	Card, Control **(SN 0300058378 through 0300062885)**	
401B	See Note	1	Card, Control (Note: Not Available for Purchase) **(SN**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			0300062886 through 0300096000)	
401B	7023331	1	Fuse	
401B	7023333	1	Holder, Fuse	
402	0701010	2	Bolt 10mm x 20mm	
403	4812000	2	Flatwasher 10mm	
404		Ref	Cover, Load Cell Options:	
404	1670905	1	Cover, Load Cell **(Prior to SN 0300058378)**	
404	1670900	1	Cover, Load Cell **(SN 0300058378 through 0300062885)**	
404	1670905	1	Cover, Load Cell **(SN 0300062886 through 0300096000)**	
405	0641407	4	Bolt 1/4in-20NC x 7/8in	
406	4761400	4	Lockwasher 1/4in	
407	3311401	4	Nut 1/4in-20NC	
	0271543	Ref	**PLATFORM LOAD SENSING DEVICE INSTALLATION (FRENCH SPEC) (WITH ADE SYSTEM) (SN 0300064259 through 0300064508)**	1A
	0272169	Ref	**PLATFORM LOAD SENSING DEVICE INSTALLATION (FRENCH SPEC) (WITH ADE SYSTEM) (SN 0300064509 through 0300096000)**	1A
501		Ref	Transducer, Pressure Options:	
501	3990109	1	Transducer, Pressure **(Prior to SN 0300064509)**	
501	3990108	1	Transducer, Pressure **(SN 0300064509 through 0300096000)**	
502	0701010	2	Bolt 10mm x 20mm	
503	4812000	2	Flatwasher 10mm	
504		Ref	Cover, Load Cell Options:	
504	1670900	1	Cover, Load Cell **(Prior to SN 0300064509)**	
504	1670905	1	Cover, Load Cell **(SN 0300064509 through 0300096000)**	
505	0641407	2	Bolt 1/4in-20NC x 7/8in	
506	4761400	2	Lockwasher 1/4in	
507	3311401	2	Nut 1/4in-20NC	
509	4460226	4	Terminal, Socket (Not Shown) (Located in Console Box)	

FIGURE 4-2. PLATFORM INSTALLATION - SIDE ENTRY PLATFORM

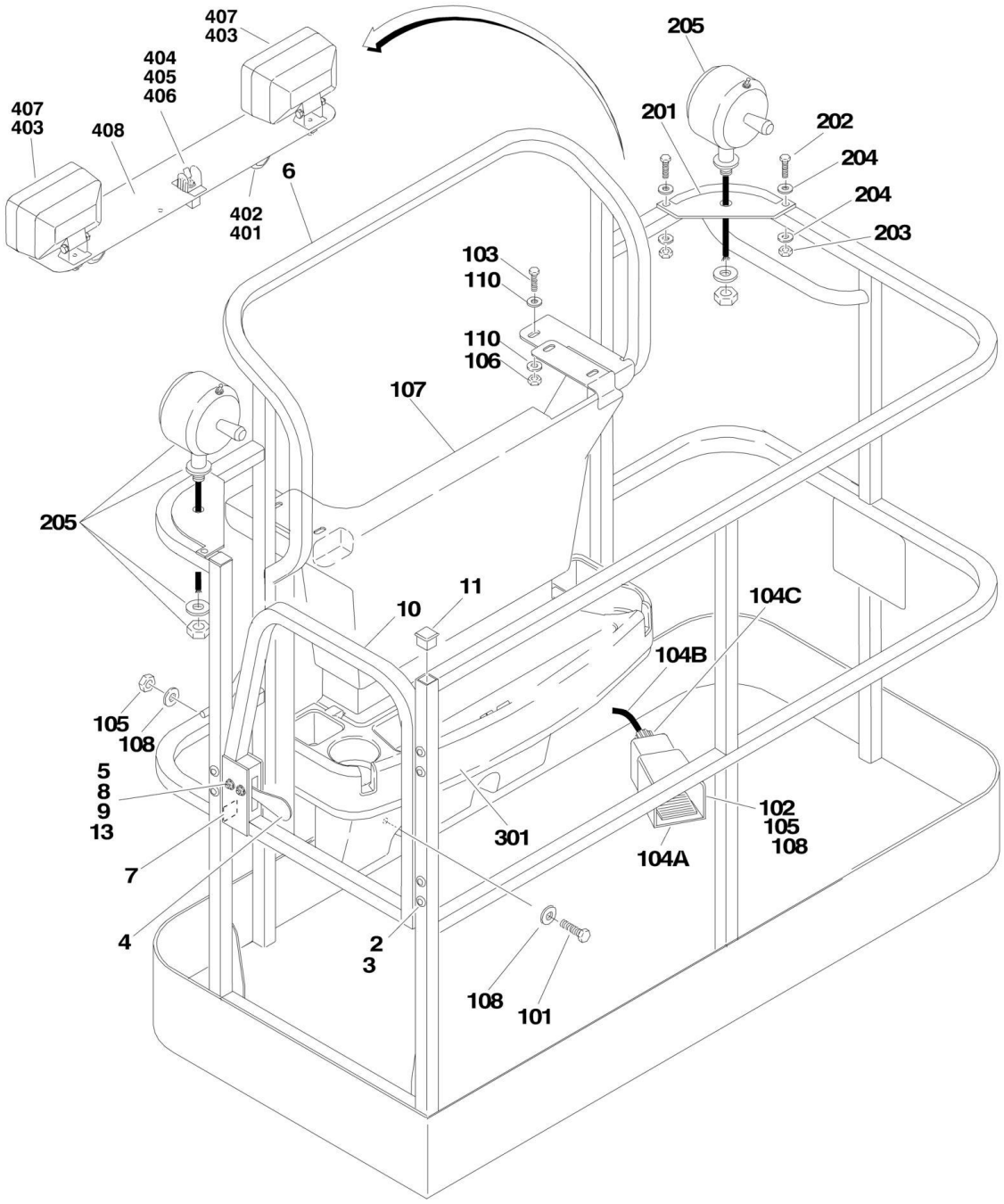


FIGURE 4-2. PLATFORM INSTALLATION - SIDE ENTRY PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PLATFORM ASSEMBLIES:**	
	3510822	Ref	**36in x 8ft (91.5cm x 2.44m) with No Mesh (Use p/n 1001144023)**	B/J
	3510832	Ref	**30in x 6ft (76cm x 1.83m) with No Mesh (Use p/n 1001144025)**	B/L
	3510833	Ref	**36in x 6ft (91.5cm x 1.83m) with No Mesh (Use p/n 1001144024)**	B/I
	3510831	Ref	**30in x 5ft (76cm x 1.52m) with No Mesh (Use p/n 1001144026)**	B/L
	3510830	Ref	**30in x 4ft (76cm x 1.22m) (Use p/n 1001144027)**	B/M
		Ref	**Note: Original Equipment platform may have been replaced with Service Replacement platform. Identify platform before ordering parts.**	
		Ref	**Note: Platform and Mesh must be ordered separately for Platforms with Mesh. See ELECTRICAL SECTION for Mesh Installations.**	
		Ref	**Note: Replacement Decals Must be purchased separately - See DECAL SECTION.**	
2	2080040	16	Fastener, Huck	
3	2600281	2	Hinge, Self-Closing	
4	2940074	1	Latch	
5	3311001	4	Nut #10-24NC Only **(Prior to SN 0300077394)**	
6	See Note	1	Platform Weldment (Note: Not Available - Purchase Platform Assembly)	
7	3520072	1	Cap-Plug	
8		Ref	Fastener Options:	
8	3911008	4	Screw #10-24NC x 1in **(Prior to SN 0300076465)**	
8	3900205	4	Screw #10-24NC x 5/8in **(SN 0300076465 through 0300077393)**	
8	3820020	4	Rivet **(SN 0300077394 through 0300096000)**	
9	4751000	8	Flatwasher #10 Regular Only **(Prior to SN 0300077394)**	
10		Ref	Gate Weldment Options:	
10	4846452	1	Gate for Original Equipment Platform p/n 3510822, 3510830, 3510831, 3510832 & 3510833	
10	1001144629	1	Gate for Service Replacement Platform p/ns 1001144023, 1001144024, 1001144025, 1001144026 & 1001144027	
11	3520072	2	Cap-Plug	
13	4761000	4	Lockwasher #10 Only **(Prior to SN 0300077394)**	
	0272609	Ref	**CONSOLE BOX INSTALLATIONS**	A
101	0641406	4	Bolt 1/4in-20NC x 3/4in	
102	0641408	3	Bolt 1/4in-20NC x 1in	
103	0641610	4	Bolt 3/8in-16NC x 1-1/4in	
104		Ref	Platform Console Box Assembly (Not Shown) (See PLATFORM CONSOLE ASSEMBLY WITHOUT ADE SYSTEM AND PLATFORM CONSOLE ASSEMBLY WITH ADE SYSTEM for Breakdown)	
104A	0272970	1	Footswitch Assembly (Includes Footswitch and Items 104B & 104C)	B
		Ref	**Note: Assembly p/n 0272970 may use either p/n 4360031 or p/n 1001117320. If Original Equipment was replaced as an "assembly," p/n 1001117320 may have been used as part of the Service Replacement. Identify component before ordering parts.**	
104A		Ref	Footswitch Less Cable Options:	
104A	4360031	1	Original Equipment	
104A	1001117320	1	Service Replacement	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
104A		Ref	Block, Contact Options (See Note Above):	
104A	7000625	2	Contact Block for 4360031 Footswitch	
104A	70003483	1	Contact Block for 1001117320 Footswitch	
104A	3252347	1	Nameplate (Note: See DECAL SECTION for Other Languages)	
104B	1060918	7 ft/2.14m	Cable, Electrical - 18/3	
104C	4460071	1	Connector, Strain Relief	
105	3311405	7	Locknut 1/4in-20NC	
106	3311605	4	Locknut 3/8in-16NC	
107	3380434	1	Panel, Decal Mount	
108	4740362	7	Washer, Fender 1/4in	
109	4751400	4	Flatwasher 1/4in Regular	
110	4751600	8	Flatwasher 3/8in Regular	
		Ref	**WORKLIGHTS INSTALLATIONS (optional)**	
	0270814	Ref	**Worklights Installations (Optional) (Prior to SN 0300074316)**	3/E
	0273493	Ref	**Worklights Installations (Optional) 400S (SN 0300074316 through 0300096000)**	B
	0273494	Ref	**Worklights Installations (Optional) 460SJ (SN 0300074316 through 0300096000)**	B
201	3536089	2	Plate, Mounting	
202		Ref	Fastener Options:	
202	0641414	4	Bolt 1/4in-20NC x 1-3/4in	
202	2080040	4	Rivet 1/4in	
203	3311405	AR	Locknut 1/4in-20NC	
204	4711400	AR	Flatwasher 1/4in Thin	
205	2920140	2	Worklight	
205	7016399	2	Bulb, Replacement (1 Per Worklight)	
206	4240099	10	Tie-Strap (Not Shown)	
207	2820035	9	Loom, Vinyl (Not Shown)	
209	4460598	1	Connector, Strain Relief (Not Shown - Located at Console Box)	
		Ref	**TRAY INSTALLATIONS (OPTIONAL)**	
301	1580012	1	Tray, Storage (Center)	
302	1580013	1	Tray, Storage (Rail Mounted - Not Shown)	
		Ref	**FLOODLIGHT INSTALLATION**	
	0274570	Ref	**Floodlight Installation 400S**	A
	0274584	Ref	**Floodlight Installation 460SJ**	A
401	0641518	2	Bolt 5/16in-18NC x 2-1/4in	
402	2560173	2	Handle	
403	2920157	2	Lamp, Work Light	
404	3250585	1	Nameplate - Light On	
405	4060802	1	Guard, Switch	
406	4360336	1	Switch, Toggle	
407	4751800	2	Flatwasher 1/2in Regular	
408	4846561	1	Mount, Light	
409		Ref	Harness 12/3 (Not Shown)	
409	1060983	63 ft/19.2m	Harness 12/3 (Not Shown) 400S	
409	4922965	1	Harness 12/3 (Not Shown) 460SJ	
411	4420037	1	Tape, Insulation (Not Shown)	

FIGURE 4-3. SOFT TOUCH INSTALLATION (FRONT ENTRY PLATFORM) (OPTIONAL)

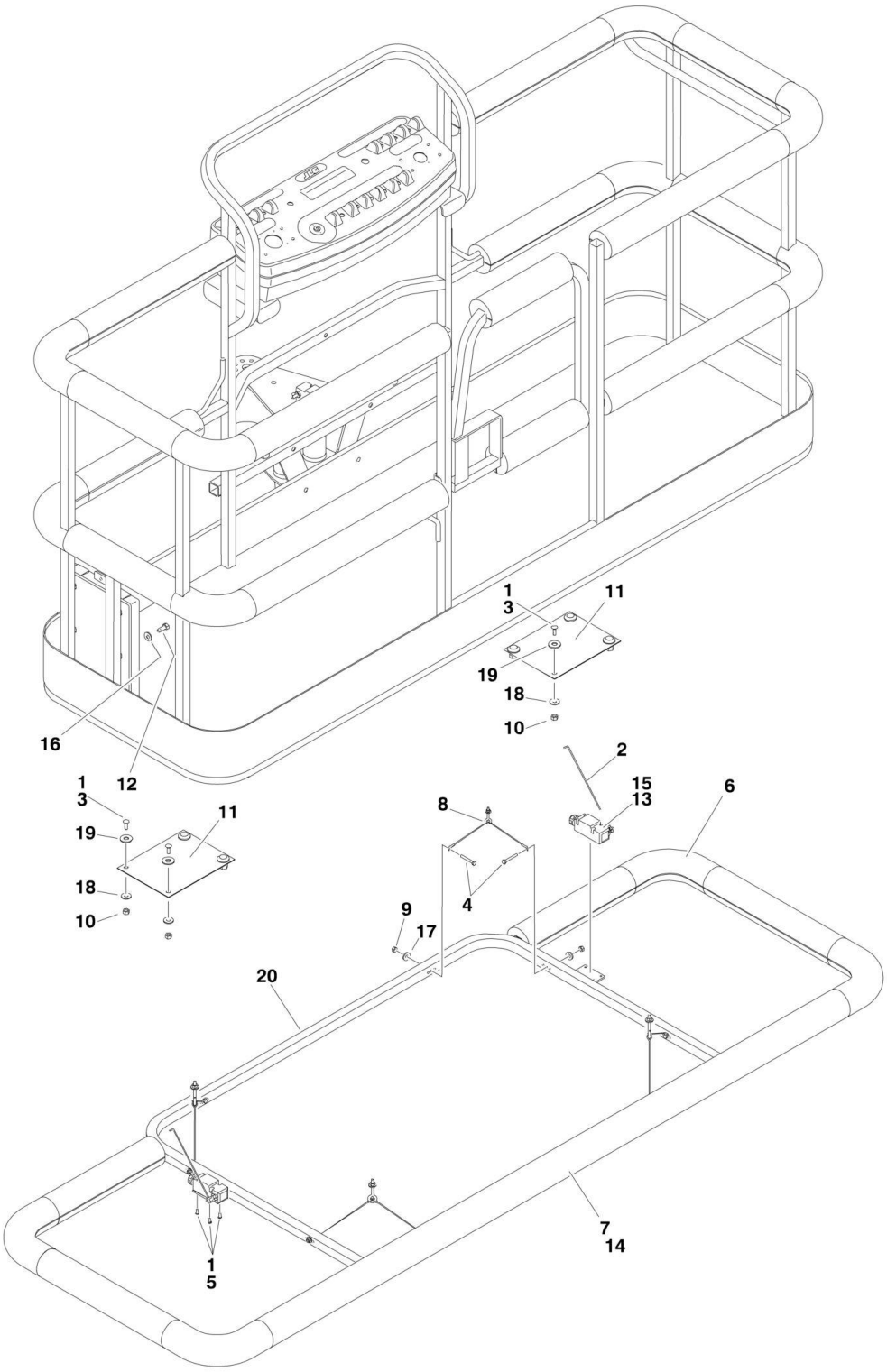


FIGURE 4-3. SOFT TOUCH INSTALLATION (FRONT ENTRY PLATFORM) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SOFT TOUCH INSTALLATION**	
	0271040	Ref	**30in x 96in Without Mesh With Swing Gate (Prior to SN 0300064404)**	B
	0271355	Ref	**30in x 96in Without Mesh With Swing Gate (SN 0300064404 through 0300064508)**	B
	0272007	Ref	**30in x 96in Without Mesh With Swing Gate (SN 0300064509 through 0300096000)**	C
1	0100011	AR	Compound, Locking	
2	0200048	2	Arm, Switch Activator	
3	0630462	8	Bolt, Carriage	
4	0641414	8	Bolt 1/4in-20NC x 1-3/4in	
5	0731005	4	Screw #10-32NF x 5/8in	
6	0940092	12	Bumper (Corner) **(Prior to SN 0300066686)**	
7		Ref	Bumper Options:	
7	0940094	3	Bumper (Center) **(Prior to SN 0300066686)**	
7	0940101	1	Bumper (Precut Kit) **(SN 0300066686 through 0300096000)**	
8	1060903	4	Wire Rope and Eyebolt Assembly	
9	3311401	8	Nut 1/4in-20NC	
10	3311501	8	Nut 5/16in-18NC	
11	3539719	2	Plate, Switch Strike	
12	3941405	2	Screw, Self-Tapping 1/4in-20NC x 5/8in	
13	4360057	2	Switch, Limit	
14	4420068	AR	Tape, Yellow Adhesive	
15	4460049	2	Connector, Strain Relief	
16	4711400	2	Flatwasher 1/4in Thin	
17	4751400	8	Flatwasher 1/4in Regular	
18	4751500	12	Flatwasher 5/16in Regular	
19	4751800	8	Flatwasher 1/2in Regular	
20	4846390	1	Weldment, Soft Touch Rail	

FIGURE 4-4. SOFT TOUCH INSTALLATION (SIDE ENTRY PLATFORM) (OPTIONAL)

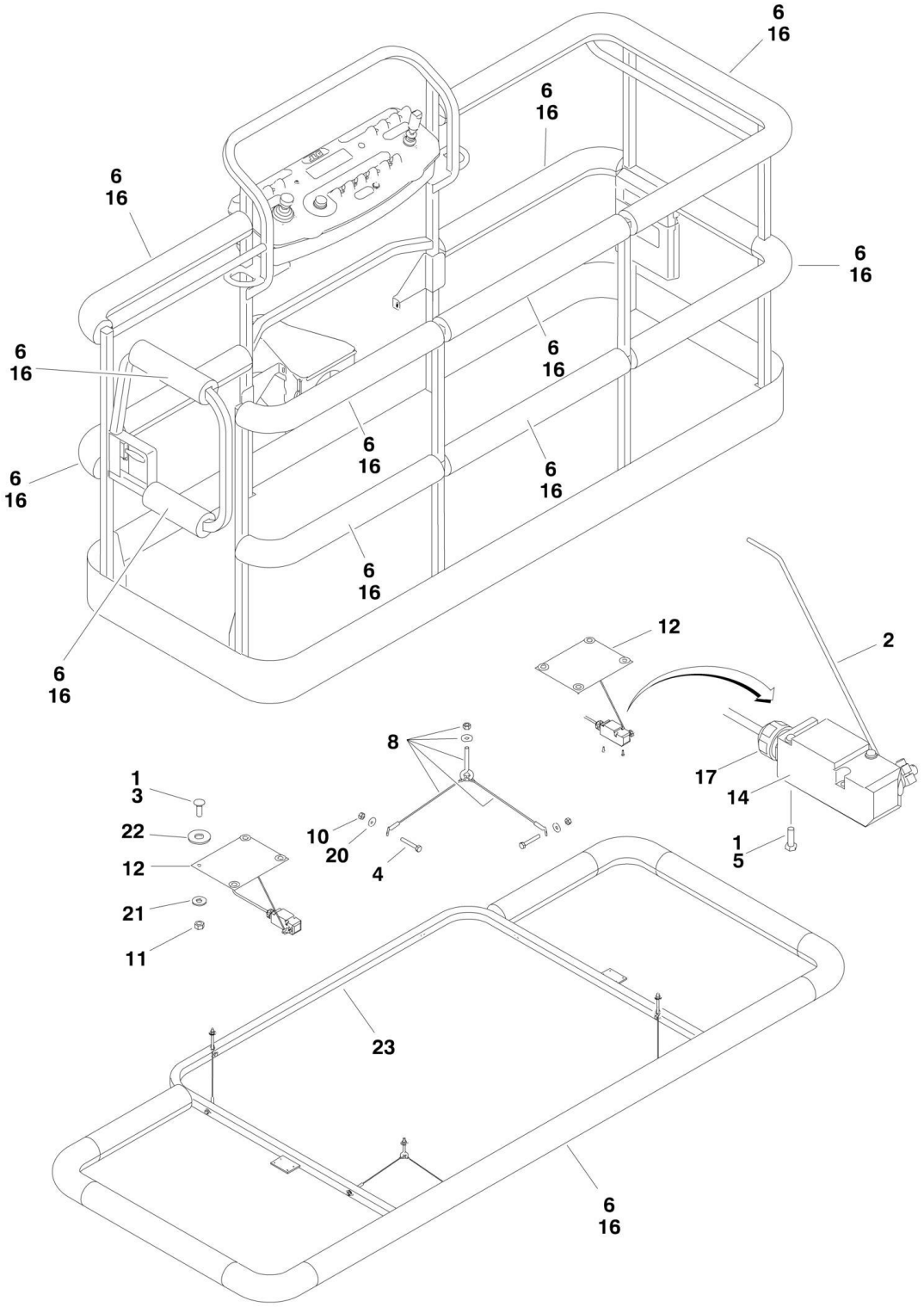


FIGURE 4-4. SOFT TOUCH INSTALLATION (SIDE ENTRY PLATFORM) (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SOFT TOUCH SYSTEM INSTALLATIONS OPTIONS:**	
	See Note	Ref	**6ft/1.8m Platforms (Note: Not Available for Purchase)**	
	0272427	Ref	**8ft/2.4m Platforms**	C
1	0100011	AR	Compound, Locking	
2	0200048	2	Arm, Switch Activator	
3	0630462	8	Bolt, Carriage	
4	0641414	8	Bolt 1/4in-20NC x 1-3/4in	
5	0731005	NLA	Screw, Machine #10-32 x 5/8in (Use p/n 0721005)	
6	0940103	1	Bumper Kit	
8	1060903	4	Wire Rope and Eyebolt Assembly	
10	3311401	8	Nut 1/4in-20NC	
11	3311501	8	Nut 5/16in-18NC	
12	3574091	2	Plate, Striker	
13	4240099	7	Tie-Strap (Not Shown)	
14	4360057	2	Switch, Limit	
16	4420068	1	Tape, Yellow Adhesive	
17	4460049	2	Connector, Strain Relief	
18	4460234	7	Base, Tie-Strap Mounting (Not Shown)	
20	4751400	8	Flatwasher 1/4in Regular	
21	4751500	12	Flatwasher 5/16in Regular	
22	4751800	8	Flatwasher 1/2in Regular	
23	4846673	1	Rail, Soft-Touch	
	0272444	Ref	**SOFT TOUCH COUNTERWEIGHT INSTALLATION (NOT SHOWN)**	C
	4821397	1	Counterweight (Located in Frame)	

FIGURE 4-5. PLATFORM CONSOLE ASSEMBLY WITHOUT ADE SYSTEM

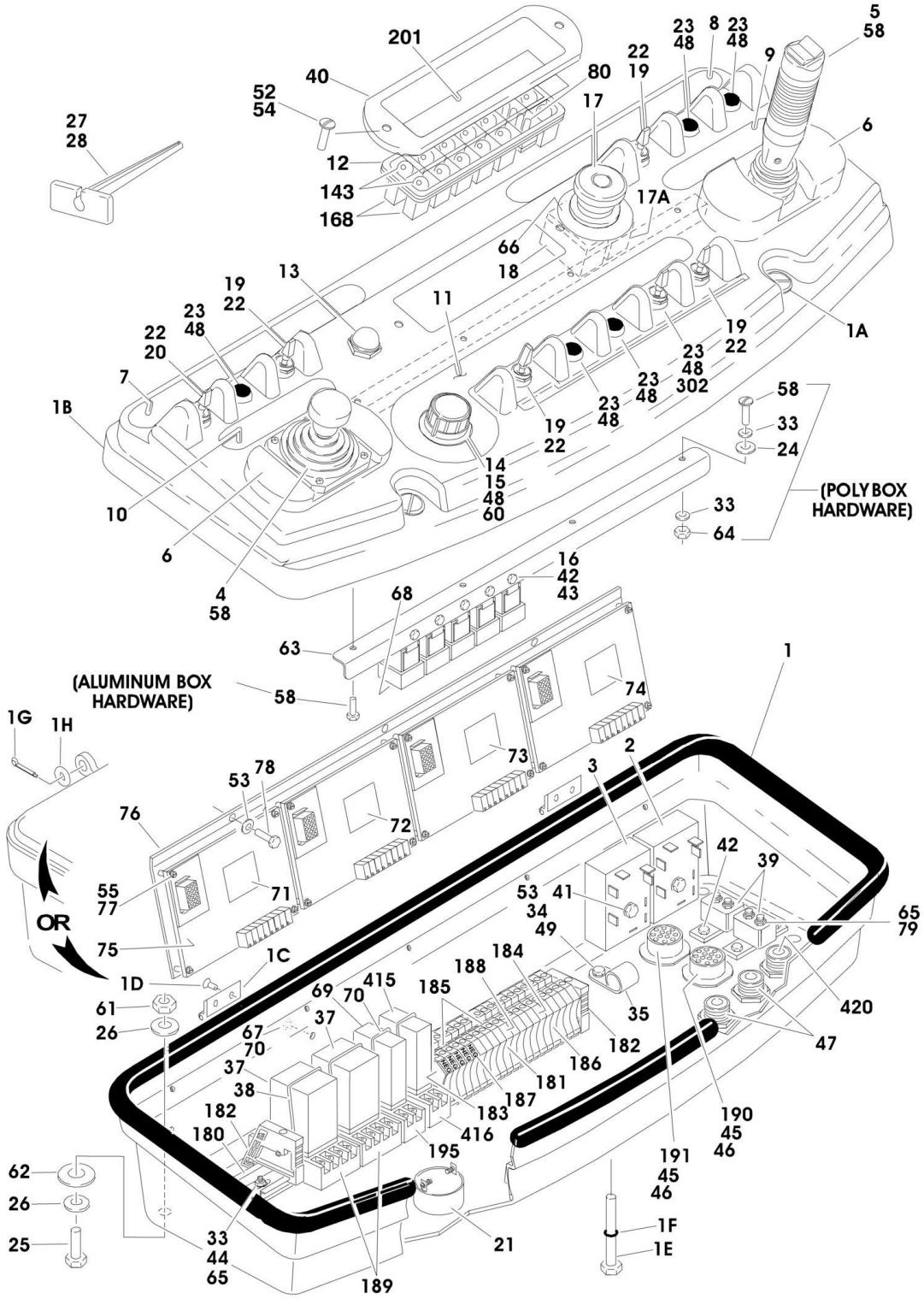


FIGURE 4-5. PLATFORM CONSOLE ASSEMBLY WITHOUT ADE SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**CONSOLE BOX ASSEMBLY OPTIONS:**	
	0861270	Ref	**Poly Box (Australian Spec)**	7/E
	0861273	Ref	**Poly Box (CE Spec)**	3/C
	0861271	Ref	**Aluminum Box (Australian Spec)**	6/D
	0861359	Ref	**Aluminum Box (CE Spec)**	2/B
1		Ref	Box, Console Options:	
1	0861195	1	Poly Box **(Prior to SN 0300066471)**	
1	0860984	1	Alum Box **(Prior to SN 0300066471)**	
1	0861535	1	Die Cast Box **(SN 0300066471 through 0300096000)**	
1		Ref	Box Components:	
1A	7020099	2	Screw (Poly Box Only)	
1A	3760308	2	Retainer (Poly Box Only)	
1A	7020100	2	Clip with Bracket (Poly Box Only)	
1B	See Note	1	Lid (Note: Not Available for Purchase)	
1C		Ref	Hinge Options:	
1C	See Note	1	Poly Box (Note: Not Available for Purchase)	
1C	2600211	2	Alum Box	
1C	Not Required	0	Die Cast Box	
1D	3900224	8	Screw, Countersunk 6mm x 16mm (Alum Box Only)	
1E	3931664	1	Capscrew 3/8in-16NC x 4in (Alum Box Only)	
1E	3931672	1	Capscrew 3/8in-16NC x 4-1/2in (Die Cast Box Only)	
1F	3790109	1	O-Ring (Alum Box Only)	
1F	3311601	1	Nut 3/8 x 16NC (Die Cast Box Only)	
1G	3450304	2	Pin, Cotter (Die Cast Box Only)	
1H	4711500	2	Flatwasher 5/16in Regular (Die Cast Box Only)	
2	3740113	1	Relay, Time Delay (5 Pin)	
3	3740115	1	Relay, Time Delay (3 Pin)	
4	1600284	1	Controller Assembly (Lift and Swing) (See CONTROLLER ASSEMBLY (LIFT AND SWING) (WITHOUT ADE SYSTEM) for Breakdown)	
5	1600283	1	Controller Assembly (Drive and Steer) (See CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITHOUT ADE SYSTEM) for Breakdown)	
6		Ref	Pad, Hand Options:	
6	Not Required	0	Poly Box	
6	4340678	1	Alum Box (Left Side)	
6	4340684	1	Alum Box (Right Side)	
7	1703776	1	Decal (Horn)	
8	1702564	1	Decal (Stop)	
9	1702565	1	Decal (Drive and Steer)	
10	1702566	1	Decal (Lift and Swing)	
11	1702567	1	Decal (Lower Lift/Tele/Rotate/Jib)	
12	2760109	1	Housing, Display Light	
13	4360387	1	Switch, Pushbutton	
14	2560136	1	Knob, Speed Control	
15	4360407	1	Speed Controller Assembly	
15	See Note	1	Gasket, "Top Hat" (Included with Switch) (Note: Not Available - Purchase Complete Controller)	
15	70003784		Seal	
16	3311005		Locknut #10-24NC	
17	4360475	1	Switch, Emergency Stop	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17	7020175	1	Cap, Mushroom	
17A	7020176	1	Block, Contact	
18	4360476	1	Block, Contact	
19	4360314	4	Switch, Toggle	
20	4360331	1	Switch, Toggle	
21	0140026	1	Alarm	
22	3790012	5	O-Ring	
23	3520028	6	Plug, Hole (For switch call-outs at these locations, refer to option installation)	
24	4740120	4	Washer, Nylon #10 (Poly Box Only)	
25	0641611	4	Bolt 3/8in-16NC x 1-3/8in	
26	4751600	8	Flatwasher 3/8in Regular	
27	4460467	1	Tool, Pin Extraction (Blue 16-18 Gauge) (Not Shown)	
28	4460510	1	Tool, Pin Extraction (Yellow 12-14 Gauge) (Not Shown)	
33	4711000	6	Flatwasher #10 Thin	
34	3311401	1	Nut 1/4in-20NC	
35	1320060	1	Clamp	
36		Ref	Mount, Tie-Strap Options (Not Shown):	
36	4460234	6	Poly Box	
36	4460488	10	Alum Box	
37	3740058	2	Relay - DPDT	
38	3740063	2	Spring, Relay	
39	4360232	2	Breaker, Circuit - 15 Amp	
40	1670829	1	Bezel, Light Panel	
41	0721010	2	Screw, Machine #10-24NC x 1-1/4in	
42	0721003	AR	Screw, Machine #10-24NC x 3/8in	
43	4751000	AR	Flatwasher #10 Regular	
44	0731004	2	Screw, Machine #10-32NC x 1/2in	
45	4460470	2	Nut, Terminal	
46	4460471	2	Washer, Terminal	
47	4460428	2	Connector, Strain Relief	
48	0100009	AR	Silicone (Not Shown)	
49	0641406	1	Bolt 1/4in-20NC x 3/4in	
50	4420038	6 in/15cm	Foam (Not Shown - Located on top of item 180) (Poly Box Only)	
52	0630464	2	Screw, Button Head #10-24NC x 1/2in	
53	4751400	AR	Flatwasher 1/4in Regular	
54	0100011	AR	Compound, Locking (Not Shown)	
55	0100035	AR	Compound, Locking (Not Shown)	
58		Ref	Hardware Options:	
58	0630518	4	Screw, Button Head #10-24NC x 3/4in (Poly Box)	
58	0641404	4	Bolt 1/4in-20NC x 1/2in (Alum Box)	
59	4761400	3	Lockwasher 1/4in (Poly Box Only)	
60	7019181	1	Gasket (Poly Box Only)	
61	3311605	4	Locknut 3/8in-16NC	
62	4751800	4	Flatwasher 1/2in Regular (Poly Box Only)	
63	3571222	1	Plate, Relay Mounting	
64	3300408	4	Locknut #10-24NC (Poly Box Only)	
65	4761000	6	Lockwasher #10	
66	1704260	1	Decal - EMS	
67	3520173	4	Plug, Hole (Poly Box Only)	
68	3740049	5	Relay, Bosch	
69		Ref	Relay - DPDT Options:	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
69	Not Required	0	Australian Spec	
69	3740057	1	CE Spec	
70		Ref	Spring, Relay Options	
70	Not Required	0	Australian Spec	
70	3740066	1	CE Spec	
71	1703090	1	Decal - Control Card (Lift)	
72	1703091	1	Decal - Control Card (Swing)	
73	1703092	1	Decal - Control Card (Flow Control)	
74	1703093	1	Decal - Control Card (Drive)	
75	1600218	4	Card, Control	
76	3538819	1	Plate, Mounting	
77	3910610	16	Screw, Machine #6-32NC x 5/8in	
78	3931412	3	Capscrew, Socket Head 1/4in-20NC x 3/4in	
79	3311001	4	Nut #10-32NC	
80	2420194	1	Gauge, Fuel	
81	4420038	AR	Tape, Foam (Not Shown)	
82	0100020	AR	Sealant (Not Shown)	
		Ref	**ELECTRICAL COMPONENTS INSTALLATIONS**	
	4922340	Ref	**Poly Box (CE Spec)**	7/F
	4922393	Ref	**Aluminum Box (Australian Spec)**	4/C
142	4460234	10	Base, Tie-Strap (Not Shown)	
143	2920129	10	Bulb, Light	
168	4120035	10	Socket, Light	
180	3641182	1	Track	
181	4460601	10	Block, Terminal	
182	4460607	2	Stop, End	
183	4460602	1	Barrier, Terminal	
184	4460629	2	Marker, Terminal (6-15)	
185	4460603	1	Bar, Buss - 10 Position (Cut into [2] 5 Position Bars)	
186	4460600	10	Block, Terminal	
187	4460631	1	Marker, Terminal (Negative)	
188	4460632	4	Marker, Terminal (1-5)	
189	4120013	2	Socket, Relay	
190	4460613	1	Connector - 21 Position	
191	4460503	1	Connector - 31 Position	
195		Ref	Socket, Relay Options:	
195	Not Required	0	Australian Spec	
195	4120012	1	CE Spec	
		Ref	**LIGHT PANEL DECAL INSTALLATIONS**	
	0259964	Ref	**Australian Spec 400S with 230KG Capacity**	1
	0259968	Ref	**Australian Spec 400S with 750LB Capacity**	1
	0259964	Ref	**Australian Spec 460SJ**	1
	0259963	Ref	**CE Spec 400S**	1
	0259963	Ref	**CE Spec 460SJ**	1
201		Ref	Decal Options:	
201	1704486	1	Australian Spec 400S with 230KG Capacity	
201	1704514	1	Australian Spec 400S with 750LB Capacity	
201	1704486	1	Australian Spec 460SJ	
201	1704485	1	CE Spec 400S & 460SJ	
		Ref	**OPTIONAL SWITCH INSTALLATIONS**	
302	0258608	Ref	**Jib Switch Installation**	A

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
302	4360314	1	Switch, Toggle	
302	3790012	1	O-Ring	
	0270392	Ref	**PLATFORM OVERLOAD COMPONENTS**	
	0259233	Ref	**Overload (Prior to SN 0300058378)**	B
	0270392	Ref	**Overload (SN 0300058378 through 0300062885)**	4/C
	0271474	Ref	**Overload (SN 0300062886 through 0300096000)**	B
	0271542	Ref	**Overload - Lift Down (Prior to SN 0300062886)**	2/B
		Ref	**Overload - Lift Down (SN 0300062886 through 0300096000)**	1/A
415	3740057	1	Relay	
415	3740066	1	Spring, Relay	
416	4120012	1	Base, Relay	
420	4460428	1	Terminal, Strain Relief	
	4932980	Ref	**SOFT TOUCH PLATFORM COMPONENTS (OPTIONAL) (NOT SHOWN)**	2/C
	3740057	1	Relay	
	4120012	1	Relay, Socket	
	3740066	1	Spring, Relay Hold-Down	
	3740049	1	Relay, SPDT	

FIGURE 4-6. PLATFORM CONSOLE ASSEMBLY WITH ADE SYSTEM

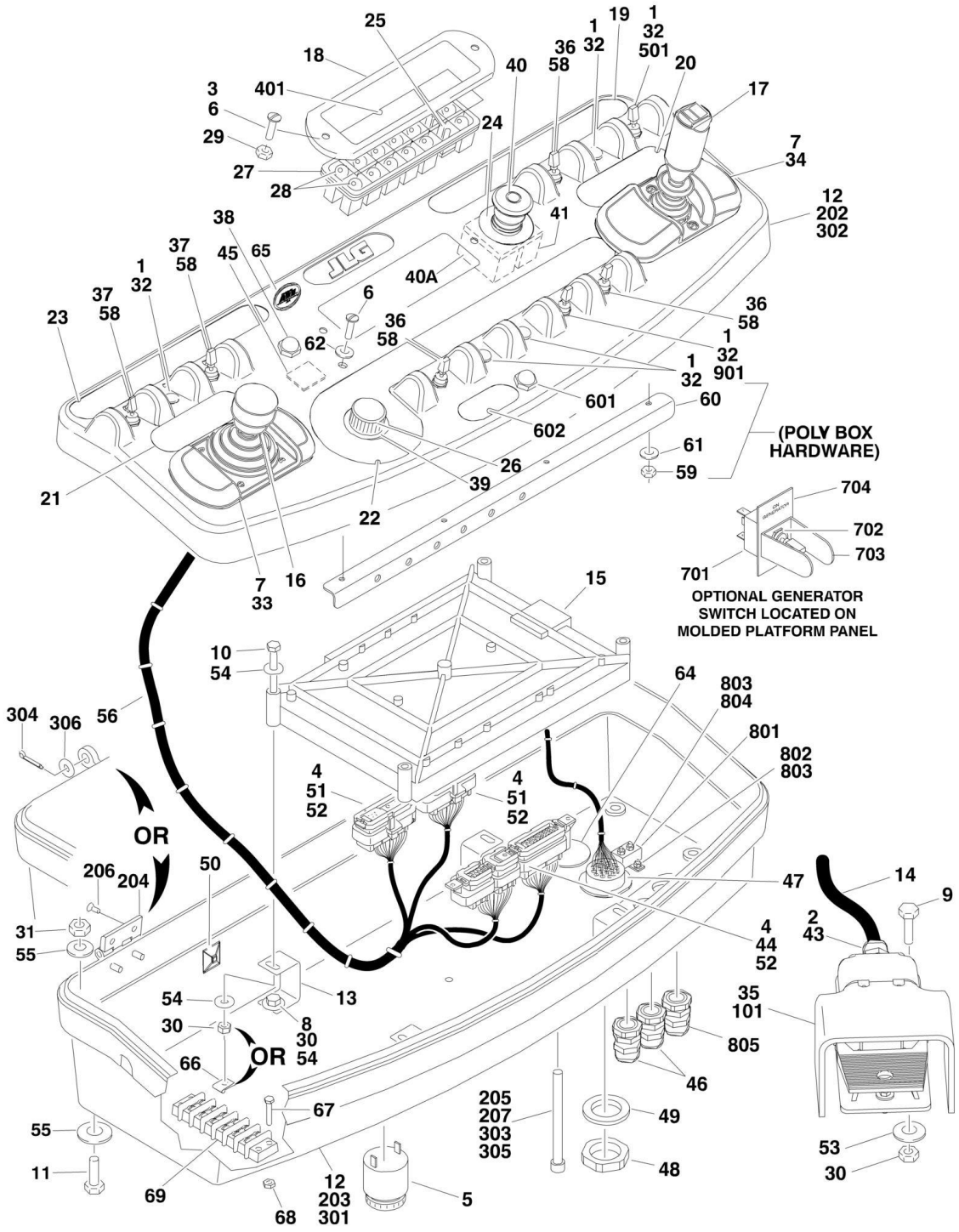


FIGURE 4-6. PLATFORM CONSOLE ASSEMBLY WITH ADE SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PLATFORM CONSOLE ASSEMBLIES**	
	0861510	Ref	**Poly Box (Prior to SN 0300068222)**	D
	0861509	Ref	**Aluminum Box (Prior to SN 0300068222)**	D
	0861571	Ref	**Die Cast Box (SN 0300068222 through 0300096000)**	E
1	0100009	AR	Sealant	
2	0100020	AR	Sealant	
3	0100035	AR	Compound, Locking	
4	0100048	AR	Grease, Dialectric	
5	0140011	1	Alarm	
6	0630464	2	Screw, Button Head #10-24NC x 1/2in	
7	0641404	AR	Bolt 1/4in-20NC x 1/2in	
8	0641406	4	Bolt 1/4in-20NC x 3/4in	
9	0641408	3	Bolt 1/4in-20NC x 1in **(Prior to SN 0300065174)**	
10	0641414	4	Bolt 1/4in-20NC x 1-3/4in	
11	0641610	4	Bolt 3/8in-16NC x 1-1/4in **(Prior to SN 0300065174)**	
12		Ref	Box, Console Options:	
12	0861414	1	Box, Console - Aluminum (See Items 201-208 for Breakdown) **(Prior to SN 0300068222)**	
12	0861392	1	Box, Console - Poly **(Prior to SN 0300068222)**	
12	0861537	1	Box, Console - Aluminum (See Items 301-306 for Breakdown) **(SN 0300068222 through 0300096000)**	
13	0902751	4	Bracket, Support	
14	1060918	8 ft /2.4mm	Cable, Electrical - 18/3	
15		Ref	Controller, Module Options:	
15	1600313	1	Controller, Module **(Prior to SN 0300077683)**	
15	1600375	1	Controller, Module **(SN 0300077683 through 0300096000)**	
16	1600317	NLA	Controller Assembly (Lift and Swing) (See CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM) for Breakdown) (Use p/n 1001129555)	
17	1600318	NLA	Controller Assembly (Drive and Steer) (See CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM) for Breakdown) (Use p/n 1001166538)	
18	1670829	1	Bezel	
19		Ref	Decal (Stop) Options:	
19	1702564	1	Decal (Stop) **(Prior to SN 0300073084)**	
19	1704997	1	Decal (Stop) **(SN 0300073084 through 0300096000)**	
20	1702565	1	Decal (Drive and Steer)	
21	1702566	1	Decal (Lift and Swing)	
22	1702567	1	Decal (Function Speed)	
23	1702676	1	Decal (Horn)	
24	1704260	1	Decal - EMS	
25	2420197	1	Gauge, Fuel	
26	2560136	1	Handle, Knob	
27	2760109	1	Housing, Display Light	
28	2920129	11	Bulb, Light	
29	3300408	2	Insert, Nylon	
30	3311405	8	Locknut 1/4in-20NC	
31	3311605	4	Locknut 3/8in-16NC **(Prior to SN 0300065174)**	
32		Ref	Plug, Hole Options:	
32	3520028	6	Plug, Hole (1/2in) **(Prior to SN 0300077683)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	3520054	6	Plug, Hole (7/16in) **(SN 0300077683 through 0300096000)**	
33	4340678	1	Support, Hand (Aluminum Box) (Left Side) **(Prior to SN 0300068222)**	
34	4340684	1	Support, Hand (Aluminum Box) (Right Side) **(Prior to SN 0300068222)**	
35	4360031	1	Footswitch	
36	4360328	4	Switch, Toggle	
37	4360331	1	Switch, Toggle	
38	4360387	1	Switch, Pushbutton	
39	4360407	1	Controller, Speed	
40	4360475	1	Switch, Emergency Stop	
40	7020175	1	Cap, Red	
40A	7020176	1	Contact Block	
41	4360476	1	Block, Contact	
43	4460071	1	Connector, Strain Relief	
44	4460226	2	Socket, Contact	
45	4460234	3	Mount, Tie-Strap	
46	4460428	2	Connector, Strain Relief	
47	4460464	1	Terminal, Deutsch	
48	4460470	1	Nut, Terminal	
49	4460471	1	Lockwasher, Terminal	
50	4460488	1	Base, Mounting	
51	4460708	2	Receptacle - 15 Position	
52	4460905	5	Seal, Plug	
53	4740362	3	Washer, Fender **(Prior to SN 0300065174)**	
54	4751400	AR	Flatwasher 1/4in Regular	
55	4751600	9	Flatwasher 3/8in Regular **(Prior to SN 0300065174)**	
56	4922665	1	Harness, Platform Box (See ELECTRICAL SECTION for Breakdown)	
57	4922666	1	Harness, Analyzer Cable (Not Shown - See ELECTRICAL SECTION for Breakdown)	
58	3790012	5	O-Ring	
59	3311005	4	Locknut #10-24NC	
60	3571222	1	Plate, Relay Mounting	
61	4751000	4	Flatwasher #10 Regular	
62	4740120	4	Washer Nylon **(SN 0300066372 through 0300096000)**	
63	0100081	AR	Loctite #454 (Not Shown) **(SN 0300068222 through 0300096000)**	
64	1671037	1	Cover **(SN 0300068222 through 0300096000)**	
65	1705132	1	Decal - ADE **(SN 0300068222 through 0300096000)**	
66	3300353	4	Nut, Tinnerman **(SN 0300068222 through 0300096000)**	
67	0721008	1	Screw #10-24NC x 1in **(SN 0300073084 through 0300096000)**	
68	3311001	1	Nut #10-24NC Only **(SN 0300073084 through 0300096000)**	
69	4460007	1	Strip, Terminal Only **(SN 0300073084 through 0300096000)**	
101	0272970	1	Footswitch Kit - Preassembled (Includes Items 2, 14, 35 & 43)	A
	0861414	Ref	**CONSOLE BOX ASSEMBLY (Prior to SN 0300068222)**	C
201	0100011	AR	Compound, Locking (Not Shown)	
202	0861414	1	Console Top (Note: Not Available for Purchase)	
203	0861414	1	Console Bottom (Note: Not Available for Purchase)	
204	2600211	2	Hinge	
205	3311601	1	Nut 3/8in-16NC	
206	3900224	8	Screw Countersunk	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
207	3931672	1	Screw 3/8in-16NC x 4-1/2in	
208	3520174	3	Plug, Hole (Not Shown - Located in Back of Lid)	
	0861537	Ref	**CONSOLE BOX ASSEMBLY (SN 0300068222 through 0300096000)**	C
301	0861537	1	Console Bottom (Note: Not Available for Purchase)	
302	0861537	1	Console Top (Note: Not Available for Purchase)	
303	3311601	1	Nut 3/8in-16NC	
304		Ref	Pin Options:	
304	3450304	2	Pin, Cotter	
304	3420156	2	Hairpin	
305	0630568	1	Screw 3/8in-16NC x 4-1/2in	
306	4711500	2	Flatwasher 5/16in Thin	
		Ref	**LIGHT PANEL DECAL INSTALLATIONS**	
	0259964	Ref	**Australian Spec 400S with 500LB Capacity**	1
	0259968	Ref	**Australian Spec 400S with 750LB Capacity**	1
	0259964	Ref	**Australian Spec 460SJ**	1
	0259963	Ref	**CE Spec 400S**	1
	0259963	Ref	**CE Spec 460SJ**	1
401		Ref	Decal Options:	
401	1704486	1	Australian Spec 400S with 230KG Capacity	
401	1704514	1	Australian Spec 400S with 750LB Capacity	
401	1704486	1	Australian Spec 460SJ	
401	1704485	1	CE Spec 400S & 460SJ	
		Ref	**LIGHTS INSTALLATION (OPTIONAL)**	
	0271343	Ref	**Headlights and Taillights (Prior to SN 0300064509)**	2
	0272018	Ref	**Headlights and Taillights (SN 0300064509 through 0300096000)**	1
	0274574	Ref	**Chassis Illumination Lights (SN 0300064509 through 0300096000)**	1
501	4360336	1	Switch, Toggle	
501	3790012	1	O-Ring	
	0271355	Ref	**SOFT TOUCH SYSTEM INSTALLATION (OPTIONAL)**	B
601	4360387	1	Switch, Pushbutton	
602	1702938	1	Decal - Soft Touch Override	
		Ref	**GENERATOR INSTALLATION (OPTIONAL)**	
701	4360336	1	Switch, Toggle	
702	4740397	1	Bushing	
703	4060802	1	Guard, Switch	
704	3251102	1	Decal - Generator ON/OFF	
	0270814	Ref	**PLATFORM WORKLIGHT INSTALLATION (OPTIONAL)**	3
801	4360232	1	Breaker, Circuit - 15Amp	
802	0721003	2	Bolt #10-24NC x 3/8in	
803	4761000	4	Lockwasher #10	
804	3311001	2	Nut #10-24NC	
805	4460598	1	Connector, Strain Relief	
	0271340	Ref	**JIB SWITCH INSTALLATION (460SJ ONLY)**	1/A
901	4360328	1	Switch, Toggle	
901	3790012	1	O-Ring	

FIGURE 4-7. CONTROLLER ASSEMBLY (SWING AND LIFT) (WITHOUT ADE SYSTEM)

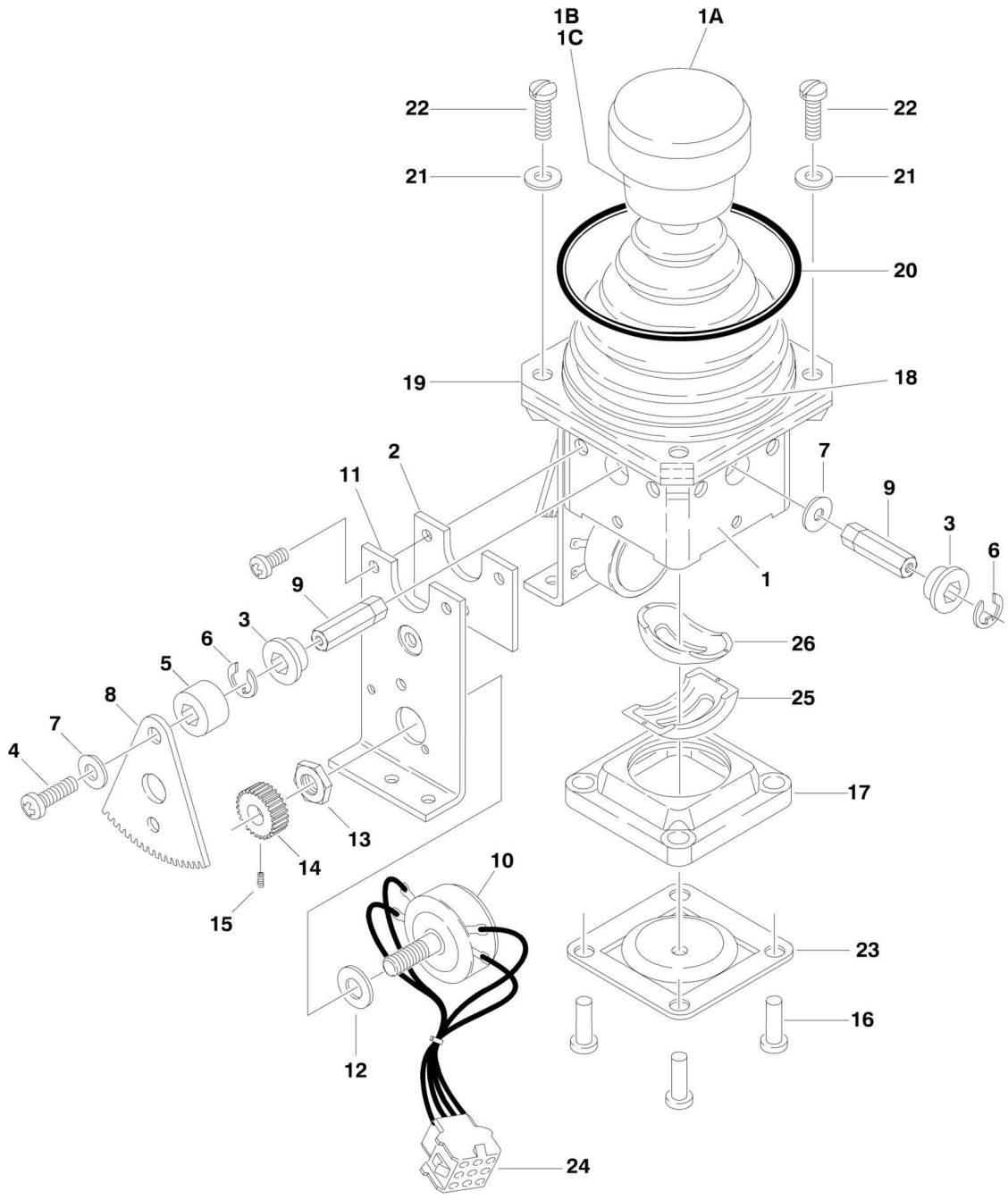


FIGURE 4-7. CONTROLLER ASSEMBLY (SWING AND LIFT) (WITHOUT ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1600284	Ref	**CONTROLLER ASSEMBLY**	A
1	7019141	1	Mechanical Assembly (Includes Base, Handle Stem and Items 1A, 1B, 1C & 18)	
1A	7019197	1	Cap and Rod	
1B	7003928	1	Spring	
1C	7022808	1	Cap, Lift	
2	7019171	2	Plate	
3	7019111	4	Bearing, Gear	
4	7019143	2	Screw	
5	7019144	2	Spacer, Cam	
6	7019145	4	E-Clip	
7	7019174	2	Spacer	
8	7003977	2	Gear, Drive	
9	7019147	4	Shaft	
10	7003974	2	Potentiometer	
11	7019142	2	Plate	
12	7003992	2	Washer	
13	7003993	2	Nut	
14	7003976	2	Gear, Slave	
15	7019149	2	Setscrew	
16	7003952	4	Screw	
17	7019150	1	Gate	
18	7022813	1	Boot (was p/n 7003955)	
19	7022813	1	Plate, Plastic (was p/n 7003954)	
20	7003956	1	O-Ring	
21	7003953	4	Washer	
22	7019137	4	Screw	
23	See Note	1	Center, Detent (Note: Not Available for Purchase)	
24	4460266	1	Connector - 9 Pin	
24	4460268	8	Socket, Female	
24	4460265	1	Plug - 9 Pin (Part of Platform Wiring) (Not Shown)	
24	4460267	8	Pin, Male (Part of Platform Wiring) (Not Shown)	
25	7019122	1	Gimble, Outer	
26	7019123	1	Gimble, Inner	

FIGURE 4-8. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM)

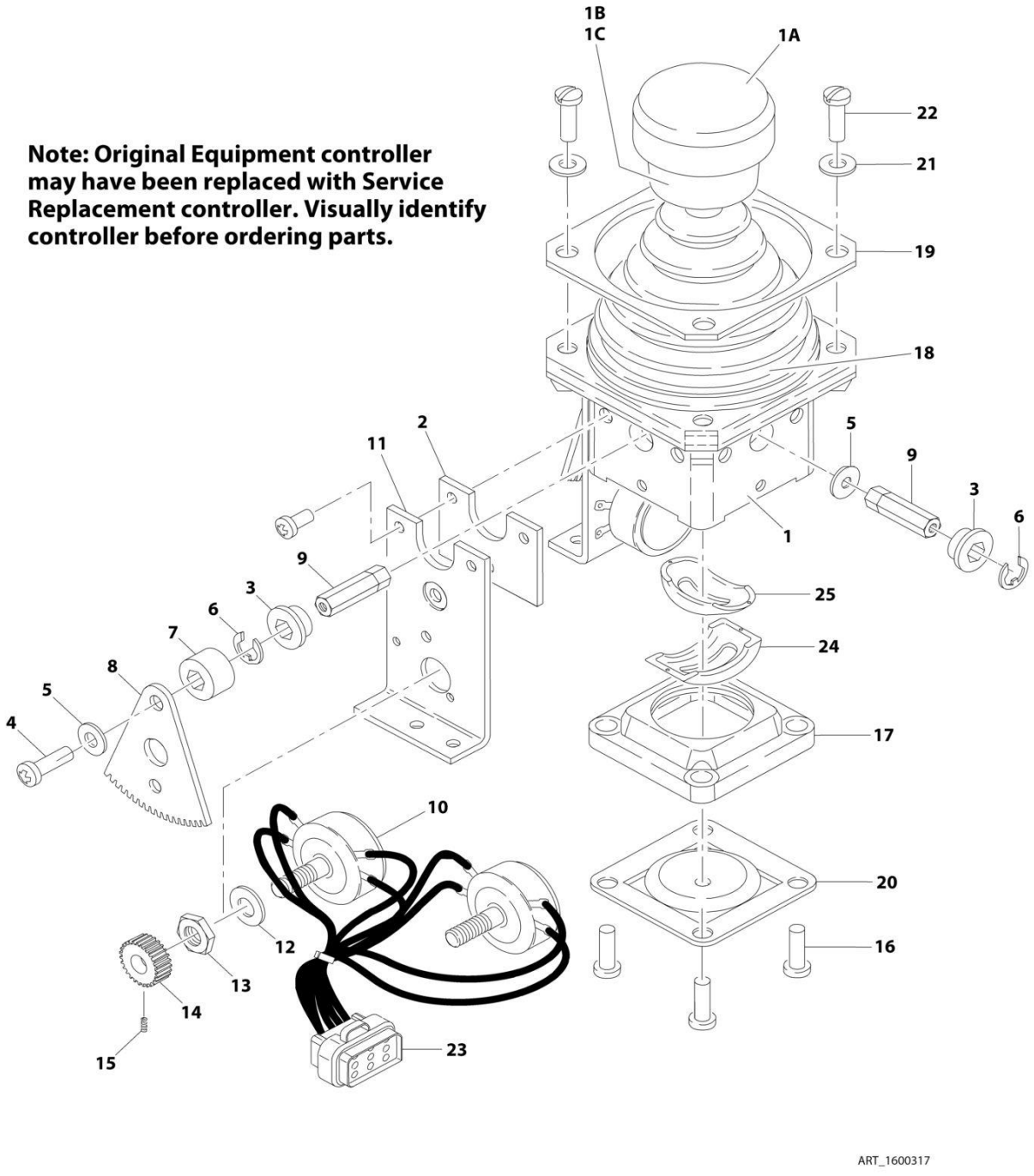
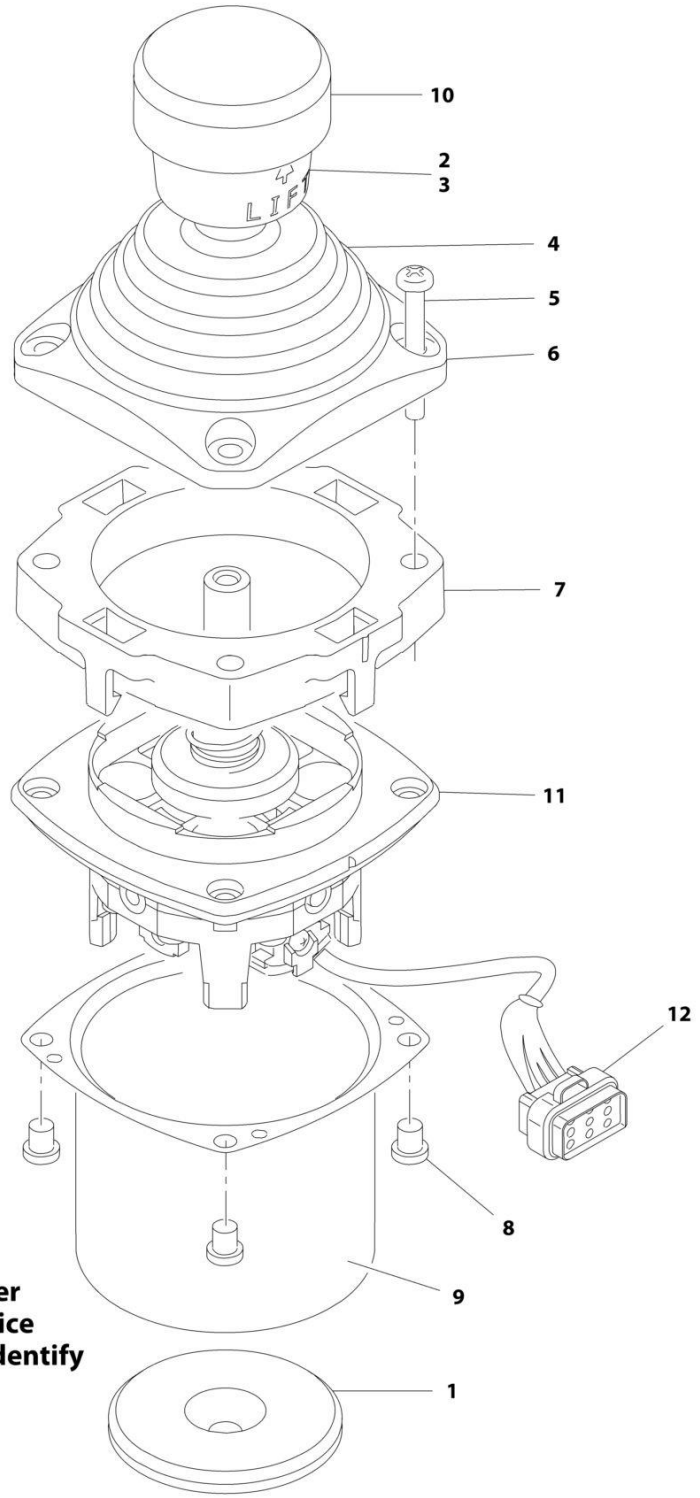


FIGURE 4-8. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.**	
	1600317	Ref	**CONTROLLER ASSEMBLY**	C
		Ref	**Note: Use p/n 1001129555 Kit as Replacement.**	
1	7019141	1	Mechanical Assembly (Includes Base, Handle Stem and Items 1A, 1B, 1C & 18)	
1A	7019197	1	Handle Cap and Rod	
1B	7003928	1	Spring	
1C	7022808	1	Cap, Lift	
2	7019171	2	Plate	
3	7019111	4	Bearing, Gear	
4	7019143	2	Screw	
5	7019144	2	Spacer, Cam	
6	7019145	4	E-Clip	
7	7019174	2	Spacer	
8	7003977	2	Gear, Drive	
9		Ref	Shaft Options:	
9	7019147	2	Shaft, Short	
9	7019177	2	Shaft, Long	
10	7022818	2	Potentiometer	
11	7019142	2	Plate	
12	7003992	2	Washer	
13	7003993	2	Nut	
14	7003976	2	Gear, Slave	
15	7019149	2	Setscrew	
16	7022816	4	Screw	
17	7019150	1	Gate	
18	7022814	1	Boot	
19	7022815	1	Bezel	
20	See Note	NSS	Center, Detent (Note: Not Available for Purchase)	
21	7003953	4	Washer	
22	7022817	4	Screw	
23	7022819	1	Plug, Male 8 Position (Natural)	
23	4460871	8	Socket, Female	
24	7019122	1	Gimble, Outer	
25	7019123	1	Gimble, Inner	

FIGURE 4-9. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM)

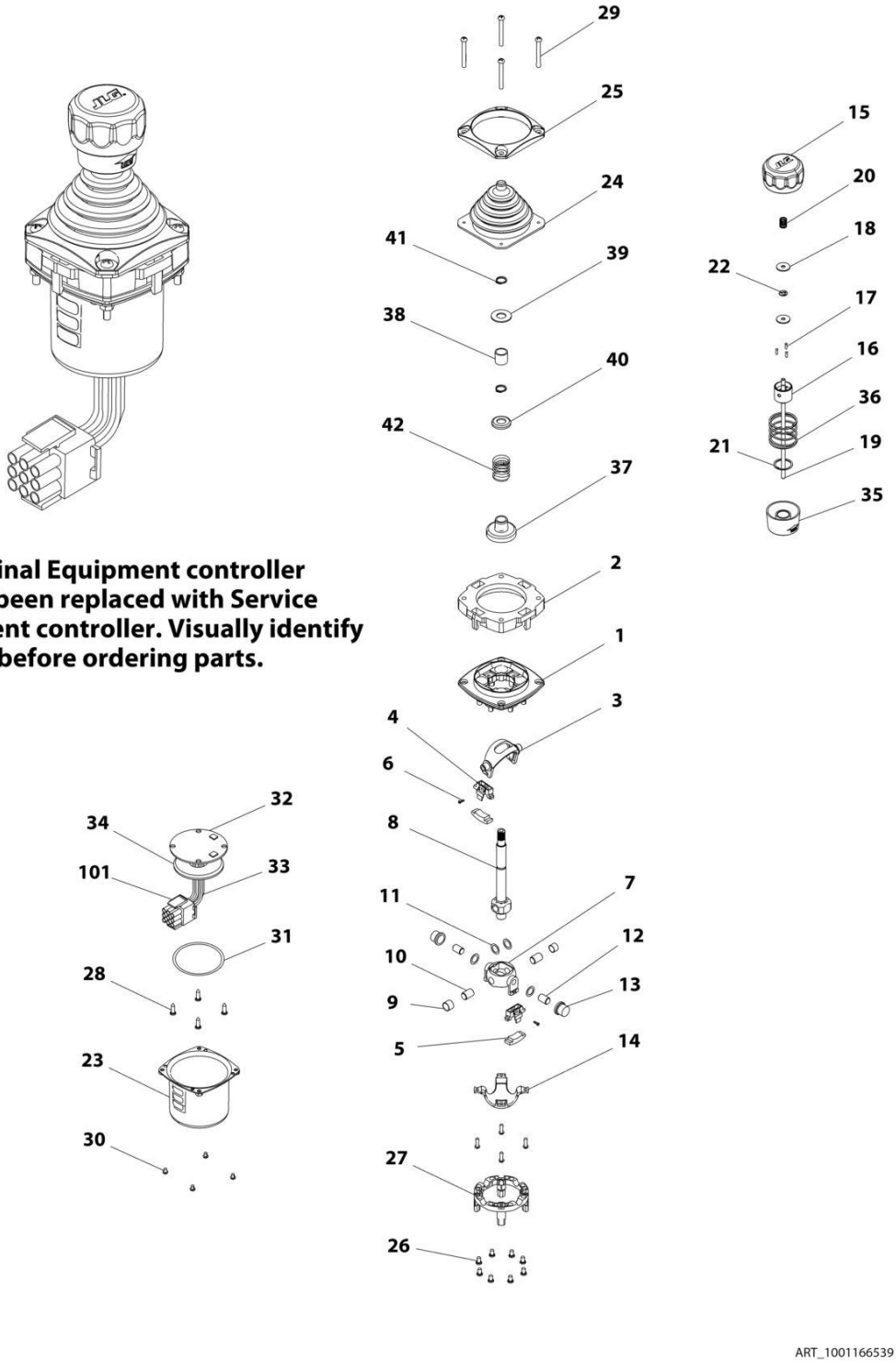


Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.

FIGURE 4-9. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.**	
	1001118417	Ref	**CONTROLLER ASSEMBLY (LIFT AND SWING)**	E
		Ref	**Note: Use p/n 1001129555 as Replacement.**	
1	70002730	1	Gasket	
2	7003928	1	Spring	
3	7022808	1	Cap, Lift	
4	70002731	1	Boot	
5	70002732	4	Screw	
6	7022815	1	Bezel	
7	70002733	1	Adapter	
8	70002734	4	Screw	
9	70002735	1	Can, Enclosure	
10	70002906	1	Cap	
11	See Note	NSS	Mechanical Assembly (Note: Use p/n 1001129555)	
12	7022819	1	Connector - 8 Position	
12	4460871	6	Socket, Female	

FIGURE 4-10. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM)



Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.

FIGURE 4-10. CONTROLLER ASSEMBLY (LIFT AND SWING) (WITH ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.**	
	1001166539	Ref	**CONTROLLER ASSEMBLY (LIFT AND SWING)**	A
		Ref	**Note: Use p/n 1001129555 as Replacement.**	
1	See Note	NSS	Main Cast Body (Note: Not Available - Purchase Complete Assembly)	
2	70004752	1	Adapter	
3	See Note	NSS	Pivot Arm, Plastic (Note: Not Available - Purchase Complete Assembly)	
4	See Note	NSS	Holder, Magnet (Note: Not Available - Purchase Complete Assembly)	
5	See Note	NSS	Arc, Magnet (Note: Not Available - Purchase Complete Assembly)	
6	See Note	NSS	Screw (Note: Not Available for Purchase)	
7	See Note	NSS	Pivot Arm, Cast (Note: Not Available - Purchase Complete Assembly)	
8	See Note	NSS	Shaft, Main (Note: Not Available - Purchase Complete Assembly)	
9	See Note	NSS	Bearing (Note: Not Available - Purchase Complete Assembly)	
10	See Note	NSS	Pin (Note: Not Available - Purchase Complete Assembly)	
11	See Note	NSS	Shim (Note: Not Available - Purchase Complete Assembly)	
12	See Note	NSS	Pin (Note: Not Available - Purchase Complete Assembly)	
13	See Note	NSS	Bearing (Note: Not Available - Purchase Complete Assembly)	
14	See Note	NSS	Dome, Centering (Note: Not Available - Purchase Complete Assembly)	
15	70004753	1	Cap	
16	70004754	1	Insert, Cap	
17	70004755	3	Pin	
18	70004756	2	Washer	
19	70004757	1	Pin, Centering	
20	70004758	1	Spring	
21	70004759	1	Ring, Retaining	
22	70004760	1	E-Ring	
23	70004761	1	Can, Enclosure	
24	70004762	1	Boot	
25	70004763	1	Bezel	
26	See Note	NSS	Screw (Note: Not Available for Purchase)	
27	See Note	NSS	Base Mounting (Note: Not Available - Purchase Complete Assembly)	
28	See Note	NSS	Screw (Note: Not Available for Purchase)	
29	70004764	4	Screw	
30	70004765	4	Screw	
31	70004766	1	O-Ring	
32	See Note	NSS	Plate (Note: Not Available - Purchase Complete Assembly)	
33	See Note	NSS	Harness (Note: Not Available - Purchase Complete Assembly)	
34	70004767	1	Grommet, Rubber	
35	70004768	1	Housing	
36	70004769	1	Spring	
37	70004770	1	Stopper	
38	70004771	1	Spacer	
39	70004772	1	Washer	
40	70004773	1	Disc	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	70004774	2	Ring, Retaining	
42	70004775	1	Spring	
101	4460265	1	Connector - 9 Position	
101	4460226	6	Socket, Female	

FIGURE 4-11. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITHOUT ADE SYSTEM)

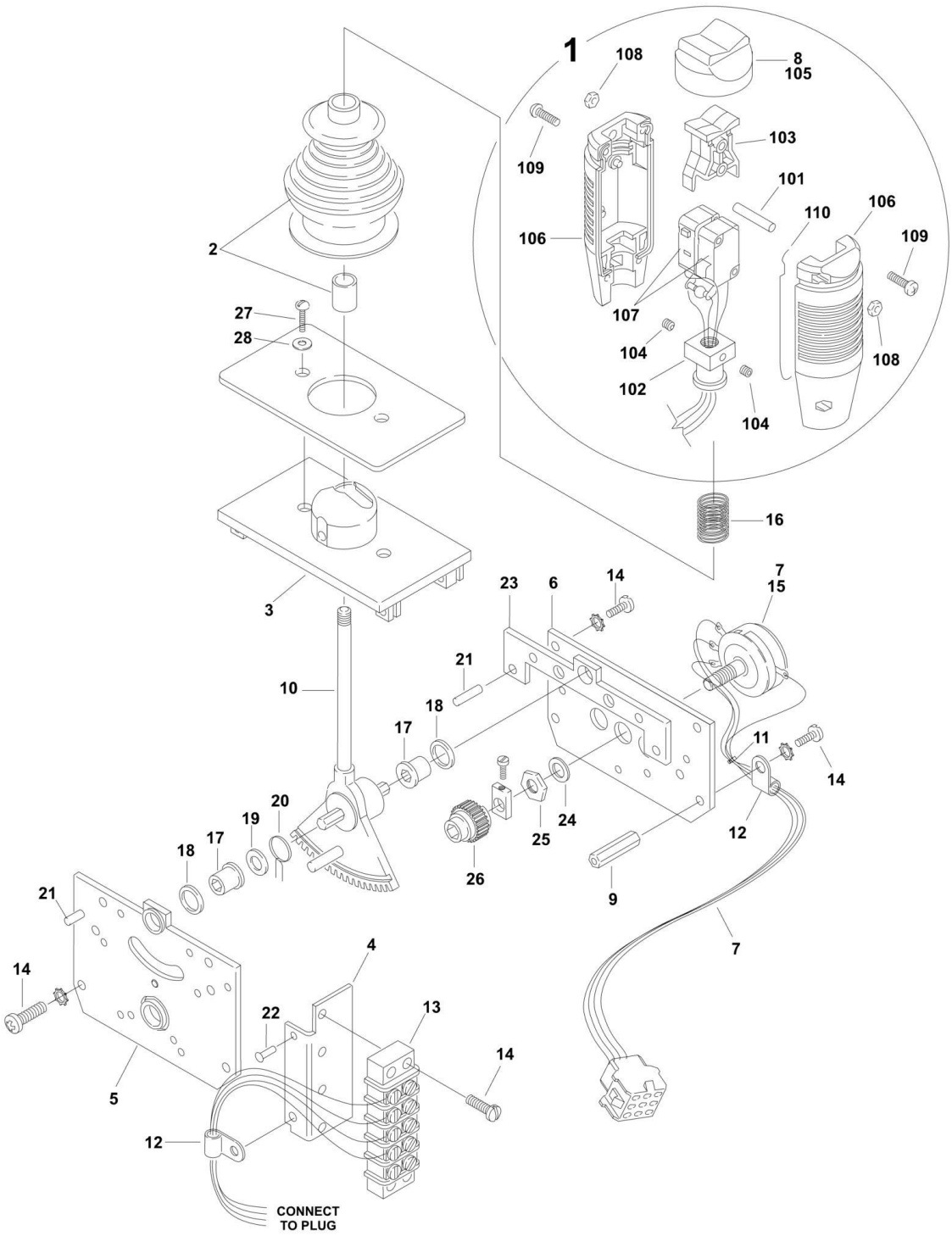
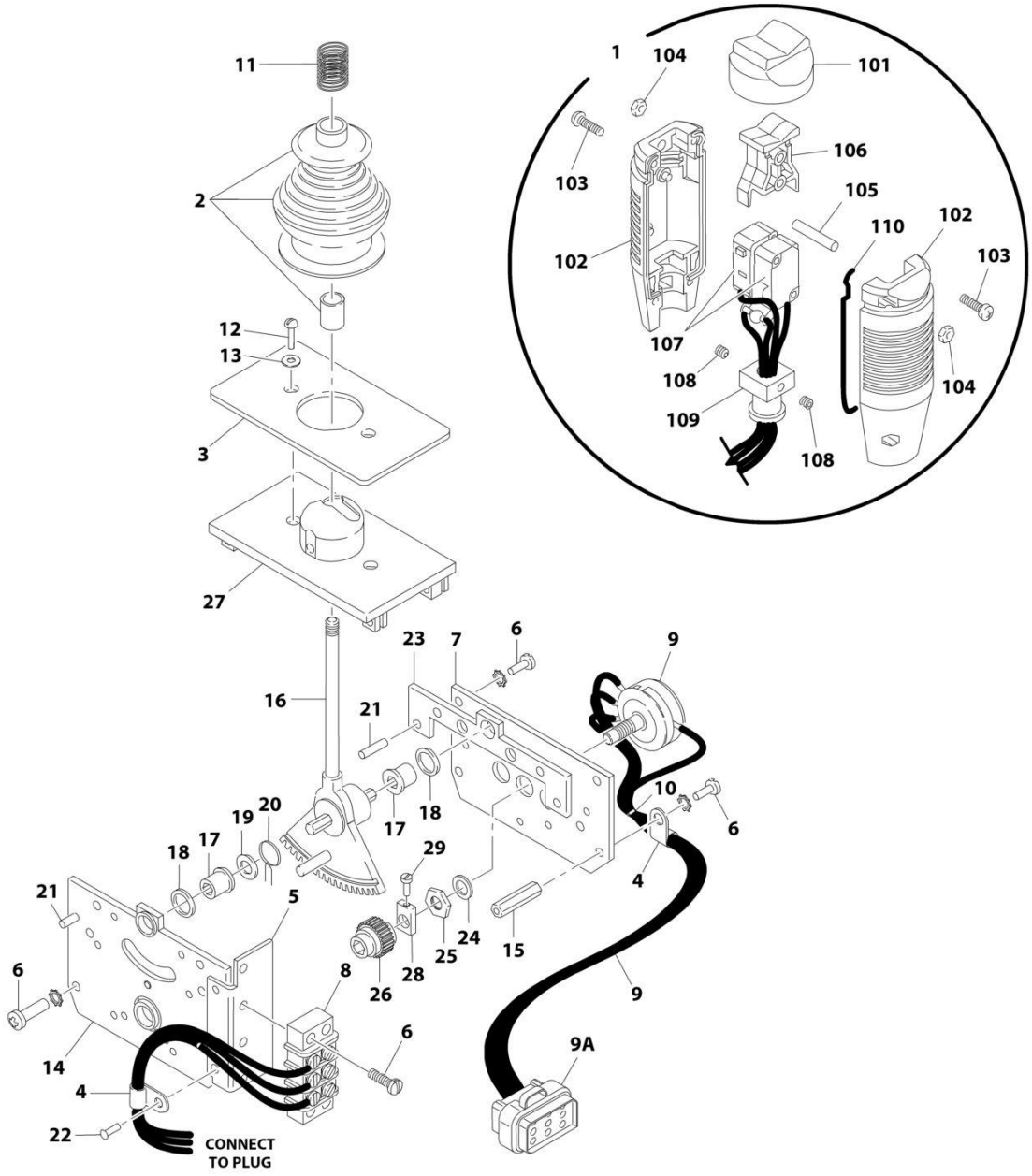


FIGURE 4-11. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITHOUT ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1600283	Ref	**CONTROLLER ASSEMBLY**	A
1		Ref	Handle Assembly (See items 101-110 for Breakdown)	
2	7019161	1	Boot and Sleeve	
3	7019160	1	Cast Housing Assembly	
4	7019159	1	Bracket, Mounting	
5	7019158	1	Plate, Mounting (Left Side)	
6	7019157	1	Plate, Pot Mounting	
7	7019156	1	Electric Assembly	
8	7003972	1	Boot, Rocker	
9	7019115	2	Stand-Off	
10	7019155	1	Shaft 8mm	
11	7019151	AR	Tie-Strap	
12	7019154	2	Clamp, Wire	
13	7019153	1	Strip, Terminal - 5 Position	
14	7019117	8	Screw	
15	7019163	1	Potentiometer Coupling Assembly	
16	7019162	1	Spring	
17	7019111	2	Bearing	
18	7019110	2	Spacer, Head Gear	
19	7019112	1	Washer	
20	7003946	1	Spring, Return	
21	7019103	4	Pin	
22	See Note	1	Rivet (Note: Not Available for Purchase)	
23	7019168	1	Plate, Mounting (Right Side)	
24	7003992	1	Washer	
25	7003993	1	Nut	
26	7003935	1	Gear, Slave	
27	7003969	2	Screw	
28	7003941	2	Washer	
		Ref	**HANDLE ASSEMBLY**	
101	7019164	1	Axle	
102	7019194	1	Coupling	
103	7019165	1	Rocker	
104	7003983	2	Setscrew	
105	7003972	1	Boot, Switch	
106	7003973	2	Half, Handle	
107	7019166	2	Switch, Micro	
108	7019167	4	Nut	
109	7003980	4	Screw	
110	7003989	2	Gasket	

FIGURE 4-12. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM)



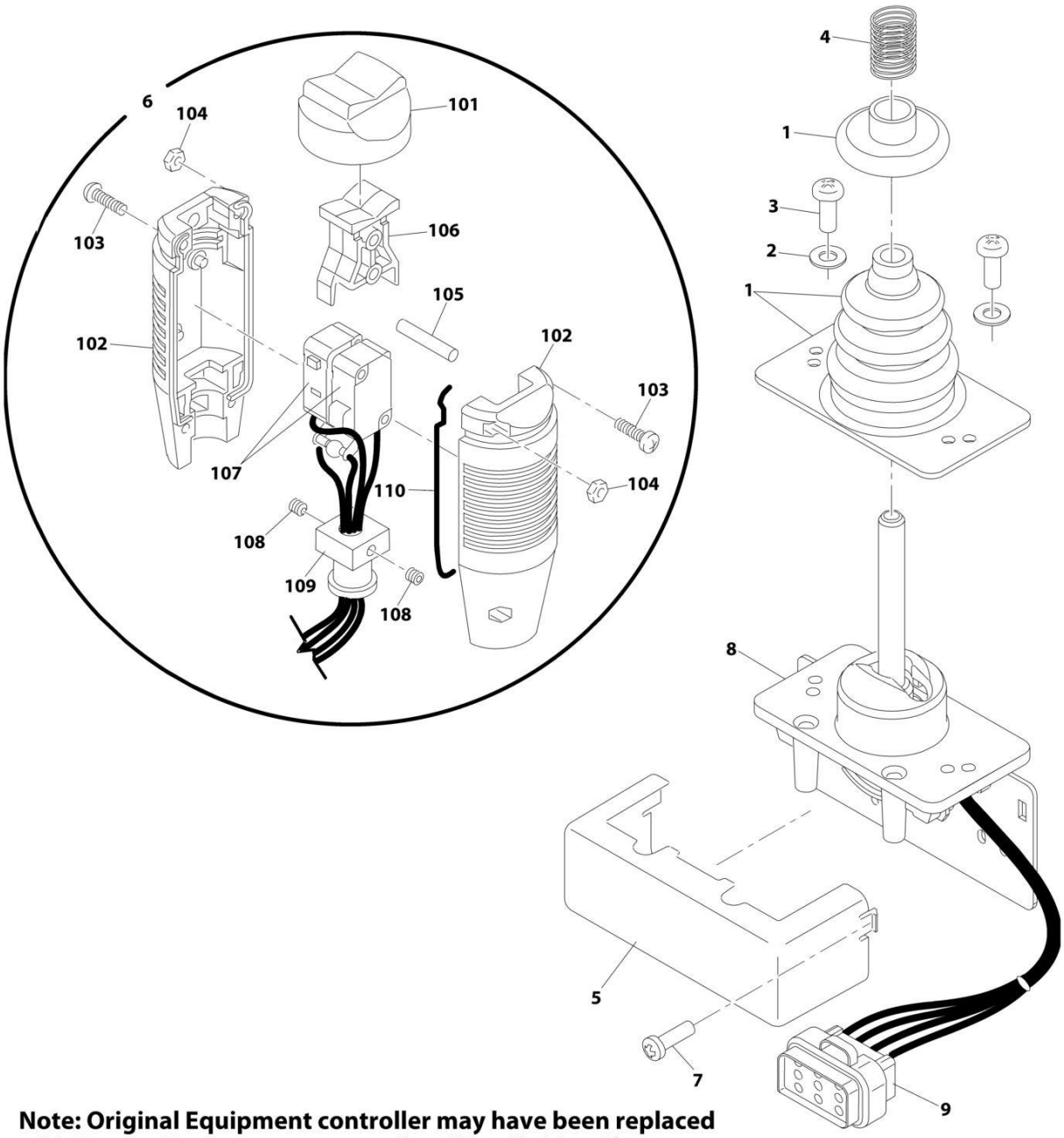
Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.

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FIGURE 4-12. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.**	
	1600318	Ref	**CONTROLLER ASSEMBLY**	C
		Ref	**Note: Use p/n 1001166538 as Replacement.**	
1	7022812	1	Handle Assembly (See Items 101-110 for Breakdown)	
2	7019161	1	Boot and Sleeve	
3	7003933	1	Gasket	
4	7019154	2	Clamp, Wire	
5	7022823	1	Bracket, Mounting	
6	7003994	1	Screw	
7	7022822	1	Plate, Pot Mounting	
8	7003986	1	Strip, Terminal - 3 Position	
9	7022824	1	Electric Assembly	
9A	1001113961	1	Plug, Male - 8 Position (Black) (was p/n 7022825)	
9A	4460871	7	Socket, Female	
10	7019151	AR	Tie-Strap	
11	7019162	1	Spring	
12	7003969	2	Screw	
13	7003941	2	Washer	
14	See Note	NSS	Plate, Mounting (Left Side) (Note: Not Available for Purchase)	
15	7019115	2	Stand-Off	
16	7019155	1	Shaft 8mm	
17	7019111	2	Bearing	
18	7019110	2	Spacer, Head Gear	
19	7019112	1	Washer	
20	7003946	1	Spring, Return	
21	7019103	4	Pin	
22	See Note	NSS	Rivet (Note: Not Available - Purchase Locally)	
23	7019168	1	Plate, Mounting (Right Side)	
24	7003992	1	Washer	
25	7003993	1	Nut	
26	7003935	1	Gear, Slave	
27	7019160	1	Plate, Base	
28	7019114	1	Coupling, Potentiometer	
29	See Note	NSS	Cup Point Screw (Note: Not Available for Purchase)	
	7022812	Ref	**HANDLE ASSEMBLY**	
101	7003972	1	Boot, Switch	
102	7003973	2	Half, Handle	
103	7003980	4	Screw	
104	7019167	4	Nut	
105	7019164	1	Axle	
106	7019165	1	Rocker	
107	See Note	NSS	Wiring for Controller Assembly p/n 1600318 (Note: Use p/n 1001166538)	
107	7019166	2	Switch, Micro	
108	7003983	2	Setscrew	
109	7019194	1	Coupling	
110	7003989	2	Gasket	

FIGURE 4-13. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM)



Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.

FIGURE 4-13. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.**	
	1001118416	Ref	**CONTROLLER ASSEMBLY (DRIVE AND STEER)**	D
		Ref	**Note: Use p/n 1001166538 as Replacement.**	
1	70002724	1	Boot and Control Lock Assembly	
2	7003941	2	Washer	
3	70002725	2	Screw	
4	7019162	1	Spring	
5	70002726	1	Enclosure	
6	70002727	1	Handle Assembly (See Items 101-110 for Breakdown)	
7	70002728	1	Screw	
8	See Note	NSS	Mechanical Assembly (Note: Use p/n 1001166538)	
9	1001113961	1	Plug, Male - 8 Position (Black) (was p/n 7022825)	
9	4460871	7	Socket, Female	
	70002727	Ref	**HANDLE ASSEMBLY**	
101	7003972	1	Boot, Switch	
102	7003973	2	Half, Handle	
103	7003980	4	Screw	
104	7019167	4	Nut	
105	7019164	1	Axle	
106	7019165	1	Rocker	
107	70002729	1	Wiring Assembly	
107	7003982	2	Switch, Micro	
108	7003983	2	Set Screw	
109	7019194	1	Coupling	
110	7003989	2	Gasket	

FIGURE 4-14. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM)

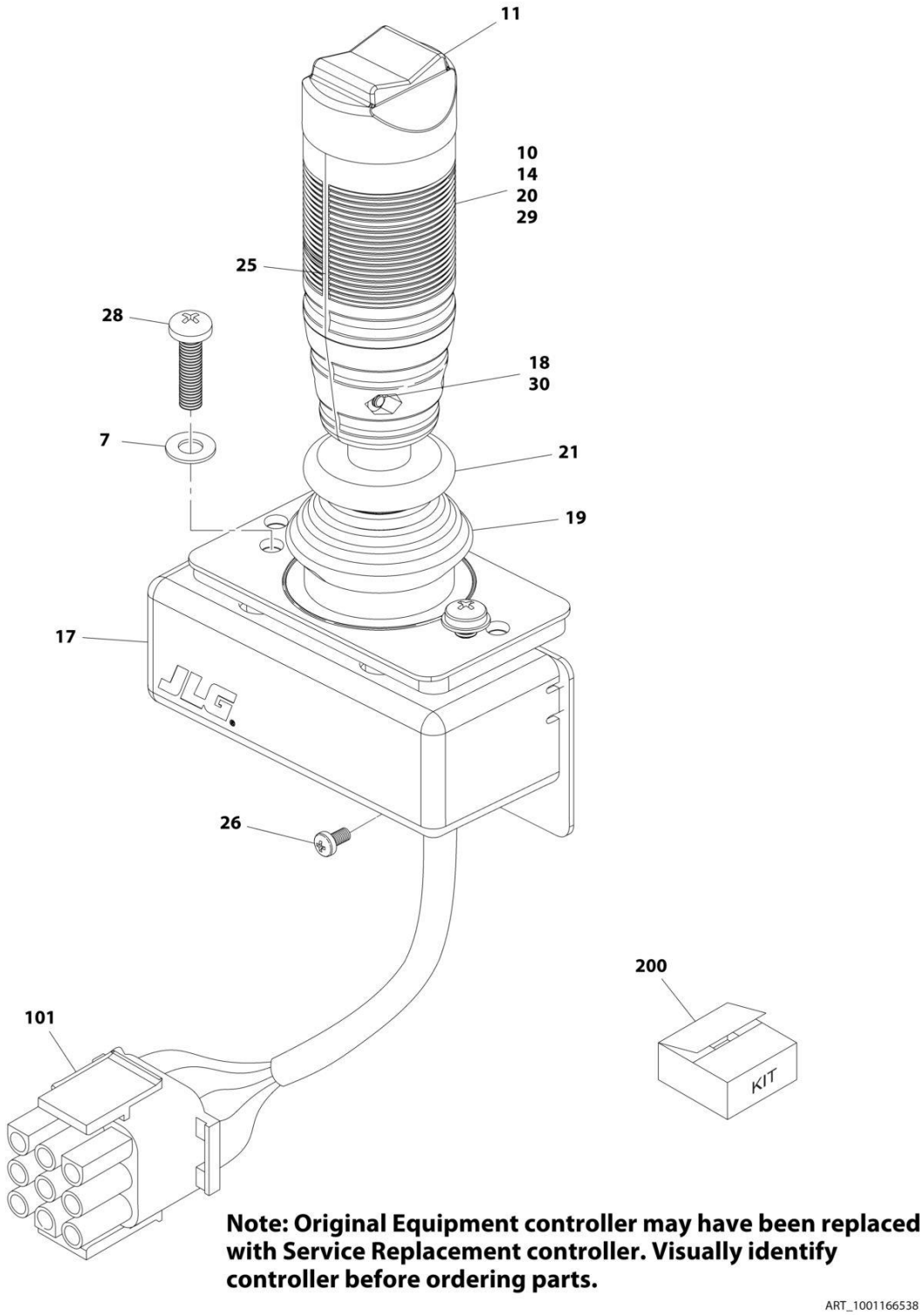


FIGURE 4-14. CONTROLLER ASSEMBLY (DRIVE AND STEER) (WITH ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment controller may have been replaced with Service Replacement controller. Visually identify controller before ordering parts.**	
	1001166538	Ref	**CONTROLLER ASSEMBLY (DRIVE AND STEER)**	E
7	70004738	2	Washer	
10	70004739	1	Roller	
11	70004740	1	Boot, Switch	
14	70004741	2	Half, Handle	
17	70004742	1	Enclosure	
18	70004743	4	Nut	
19	70004744	NLA	Boot, Controller (Note: Use Item 200)	
20	70004745	NLA	Tube, Locking (Note: Use Item 200)	
21	70004746	NLA	Disc, Locking (Note: Use Item 200)	
25	70004747	2	Seal, Rope	
26	70004748	1	Screw, M3 x 6	
28	70004749	2	Screw, M5 x 20	
29	70004750	1	Pin, Dowel	
30	70004751	4	Screw, M3 x 16	
101	4460265	1	Connector - 9 Position	
101	4460226	7	Socket, Female	
200	70005230	1	Boot Kit (Includes Items 19-21)	

FIGURE 4-15. SKYCUTTER INSTALLATION

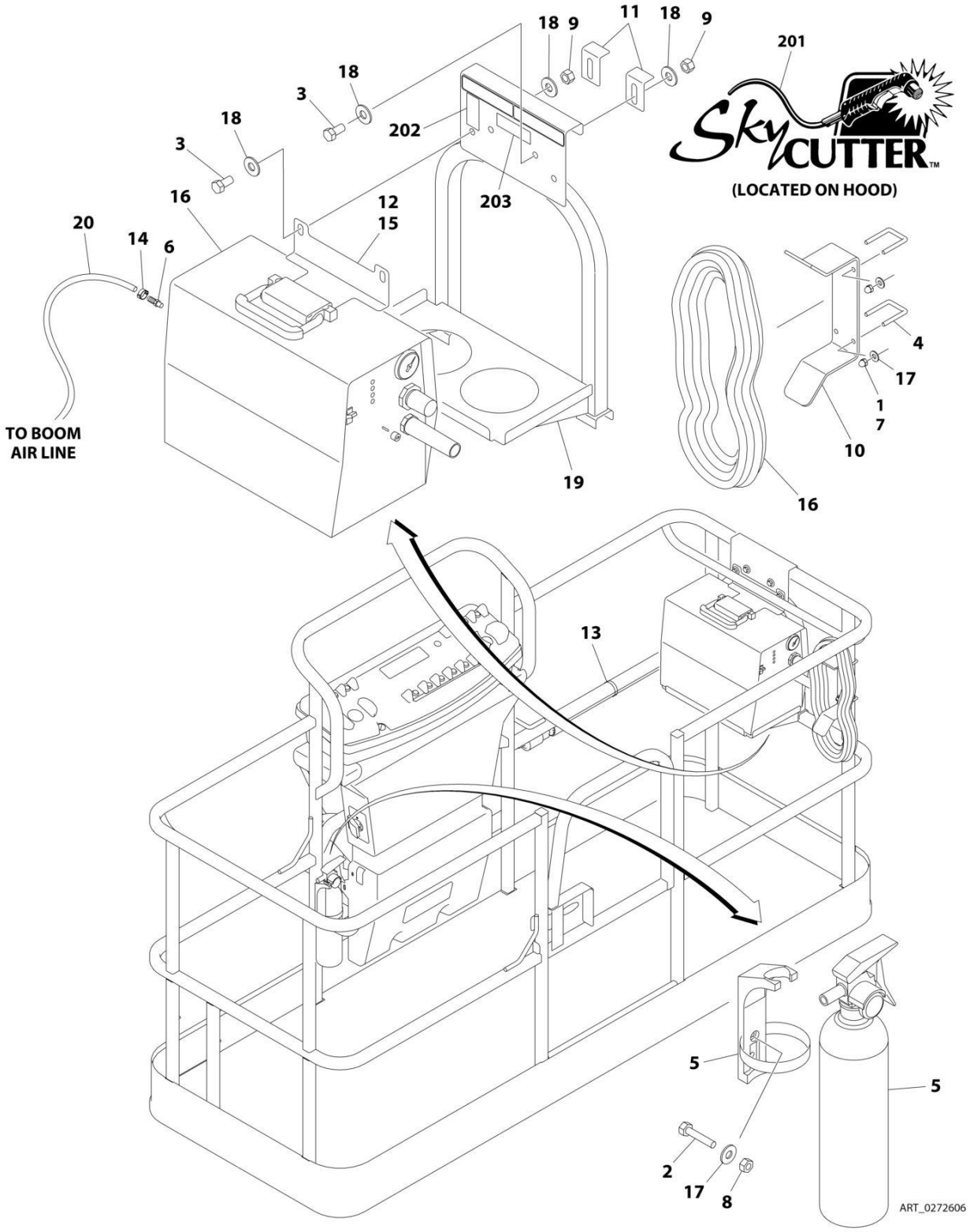


FIGURE 4-15. SKYCUTTER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272606	Ref	**SKYCUTTER INSTALLATION**	D
		Ref	**Note: When replacing platform on machines with SkyCutter option, new bracket p/n 1001145405 must be purchased to accommodate SkyCutter components.**	
1	0100011	AR	Compound, Locking	
2	0641406	2	Bolt 1/4 x 3/4	
3	0641606	4	Bolt 3/8 x 3/4	
4	1320302	2	Clamp	
5	2030010	1	Extinguisher, Fire	
6	2180832	1	Fitting, NPT/Barbed	
7	3300151	4	Nut 1/4	
8	3311405	2	Nut 1/4	
9	3311605	4	Nut 3/8	
10	3573400	1	Bracket, Cable	
11	3573641	2	Plate, Clamp (Use p/n 3577121)	
12	3573643	1	Plate, Top Support	
13	4240099	AR	Tie, Wire	
14	1320177	2	Clamp, Hose	
15	4420037	AR	Tape, Insulation	
16	4530025	1	Plasma Cutter Assembly (See PLASMA CUTTER ASSEMBLY for Breakdown)	
17	4751400	6	Washer 1/4	
18	4751600	8	Washer 3/8	
19	4846571	1	Support	
20	2720160	4 ft/1.2m	Hose	
	0272607	Ref	**SKYCUTTER DECAL INSTALLATION**	A
201	1705490	2	Decal - SkyCutter	
202	1705305	1	Decal - Weld Lead	
203	1705466	1	Decal - Weight	

FIGURE 4-16. PLASMA CUTTER ASSEMBLY

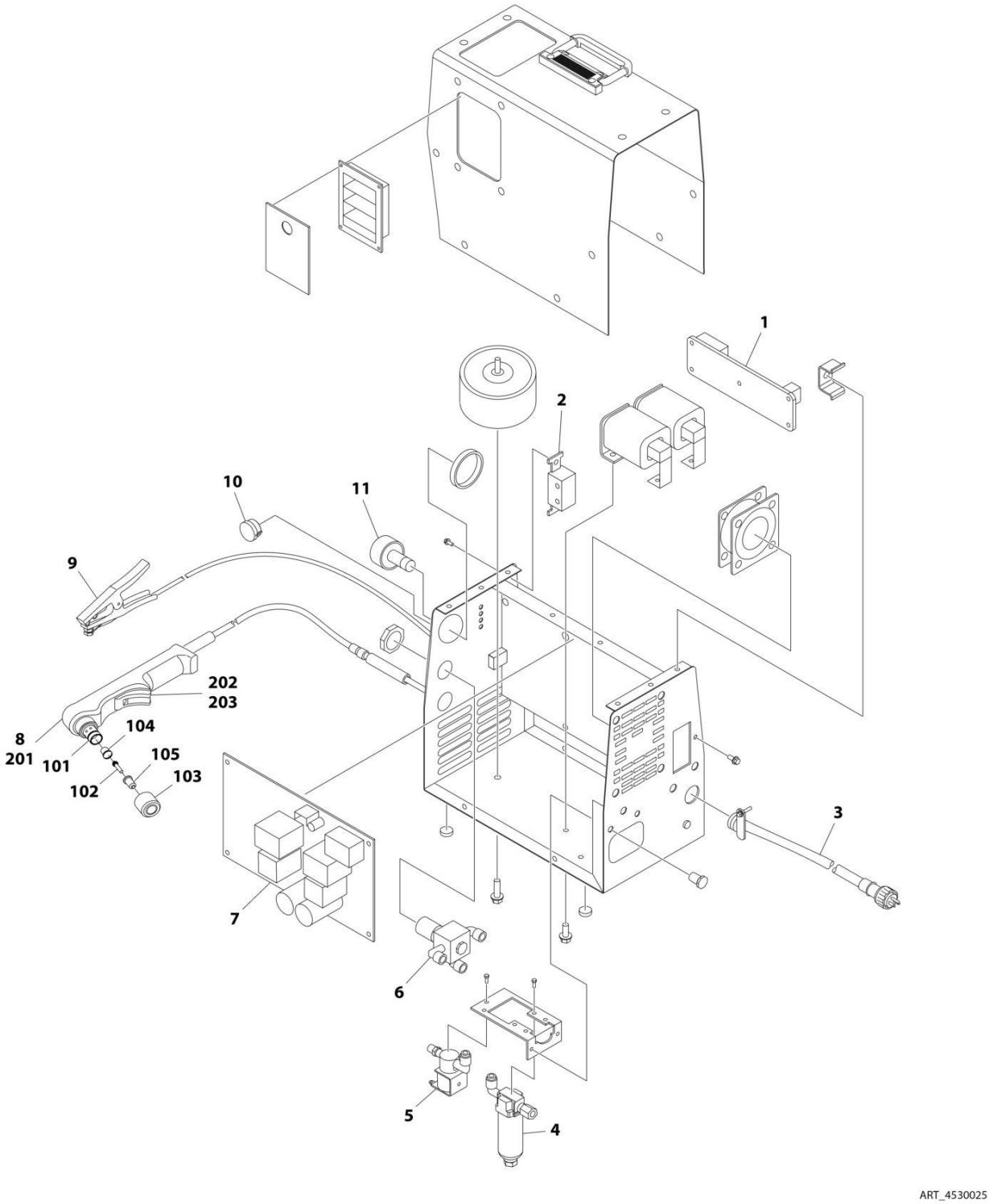
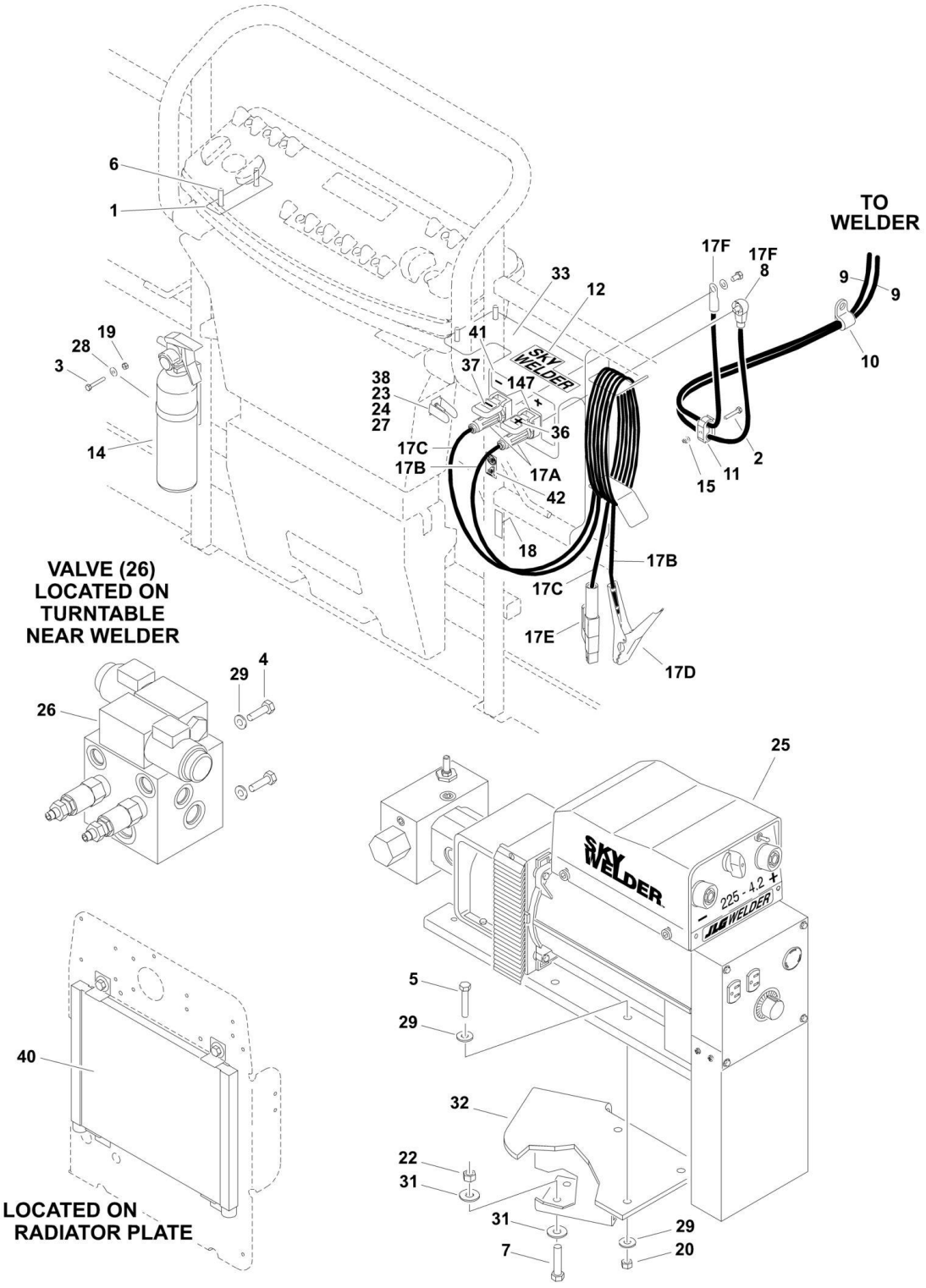


FIGURE 4-16. PLASMA CUTTER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4530025	Ref	**PLASMA CUTTER ASSEMBLY**	A
		Ref	**Note: For other components see your Miller Dealer.**	
1	7024538	1	Circuit Card	
2	7024520	1	Switch	
3	7024539	10 ft/3m	Cable, Power	
4	7024522	1	Filter, Air	
5	7024540	1	Valve, Air	
6	7024524	1	Regulator, Air	
7	7024541	1	Circuit Card	
8	7024526	1	Torch Assembly (See Items 101-203 for Breakdown)	
9	7024527	1	Clamp	
10	7024528	1	Knob	
11	7024529	1	Gauge, Air	
		Ref	**TORCH ASSEMBLY**	
101	7024530	1	O-Ring	
102	7024531	1	Electrode	
103	7024532	1	Cup, Retaining	
104	7024533	1	Swirl Ring	
105	7024534	1	Tip	
201	7024535	1	Handle, Torch	
202	7024536	1	Switch	
203	7024537	1	Trigger	

FIGURE 4-17. SKYWELDER INSTALLATION (Prior to SN 0300068333)



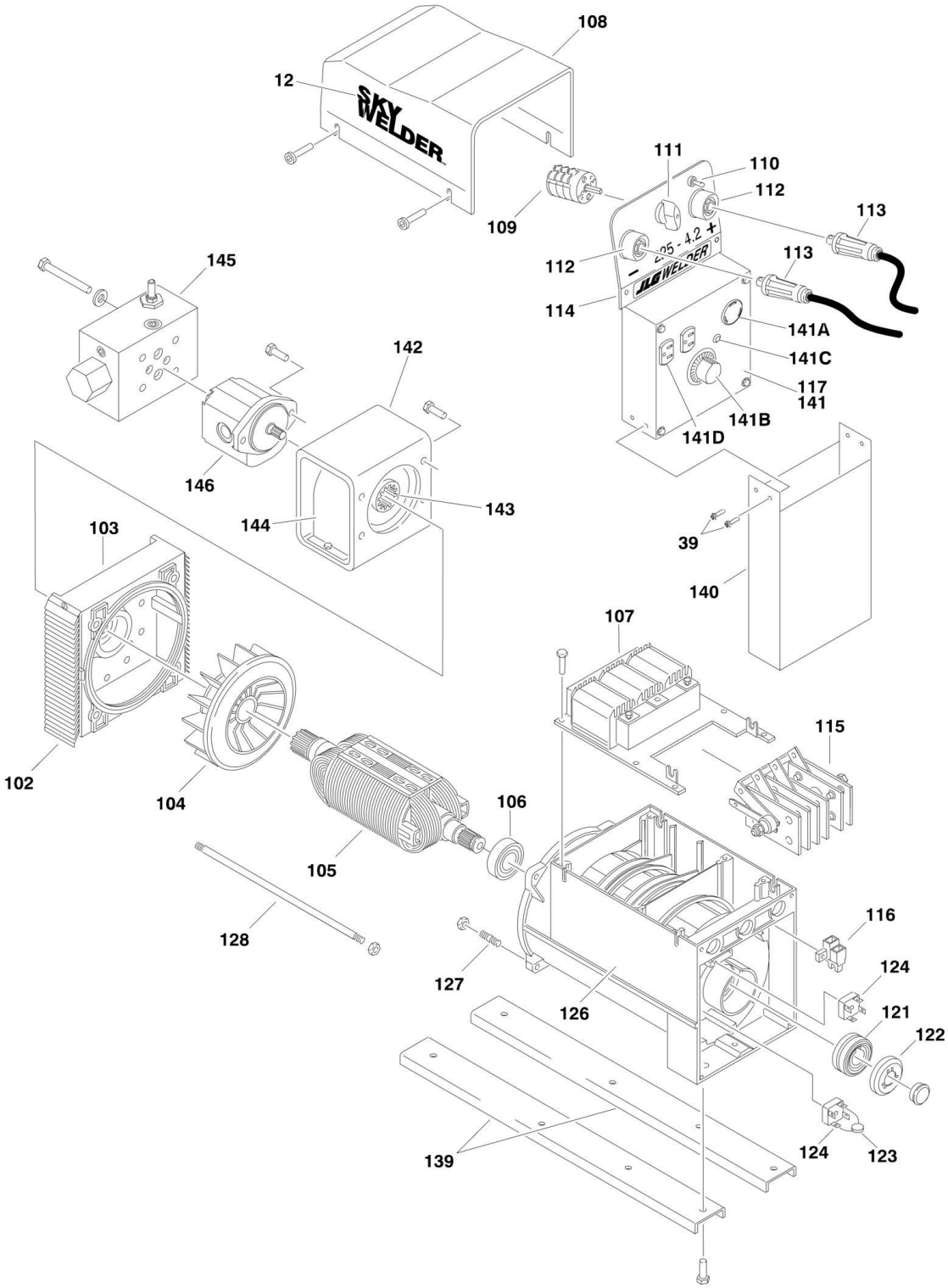

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SKY WELDER
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FIGURE 4-17. SKYWELDER INSTALLATION (Prior to SN 0300068333)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**SKYWELDER INSTALLATIONS**	
	0270044	Ref	**225A -400S (Prior to SN 0300064404)**	E
	0271579	Ref	**200A -400S (Prior to SN 0300064404)**	A
	0271358	Ref	**225A - 400S - ADE System (SN 0300064404 through 0300064508)**	D
	0272025	Ref	**225A - 400S - ADE System (SN 0300064509 through 0300068333)**	B
	0270361	Ref	**225A -460SJ (Prior to SN 0300064404)**	E
	0271580	Ref	**200A -460SJ (Prior to SN 6030004404)**	A
	0271359	Ref	**225A - 460SJ - ADE System (SN 0300064404 through 0300064508)**	D
	0272024	Ref	**225A - 460SJ - ADE System (SN 0300064509 through 0300068333)**	B
1	0362949	2	Bar, Space	
2	0641412	1	Bolt 1/4in-20NC x 1-1/2in	
3	0641414	2	Bolt 1/4in-20NC x 1-3/4in	
4	0641510	2	Bolt 5/16in-18NC x 1-1/4in	
5	0641514	4	Bolt 5/16in-18NC x 1-3/4in	
6	0641613	4	Bolt 3/8in-16NC x 1-5/8in	
7	0641810	4	Bolt 1/2in-13NC x 1-1/4in	
8	0840041	1	Boot, Cable	
9	1060883	AR	Cable, Weld	
9	1060883	110 ft/33.5m	Cable, Weld 400S	
9	1060883	125 ft/38.1m	Cable, Weld 460SJ	
10		Ref	Clamp, Hose	
10	Not Required	0	Clamp, Hose 400S	
10	1320130	4	Clamp, Hose 460SJ	
11		Ref	Clamp, Hose Options:	
11	1320146	1	Clamp, Hose **(Prior to SN 0300064404)**	
11	1320291	1	Clamp, Hose **(SN 0300064404 through 0300068333)**	
12	1704895	2	Decal - SkyWelder	
13	1704896	1	Decal - SkyWelder (Not Shown - Located on Hood)	
14	2030010	1	Extinguisher, Fire	
15	2080044	1	Rivnut, Fastener	
17	2901971	1	Platform Weld Leads Kit	B
17A	7023413	2	Connector, Cable	
17B	7023414	1	Cable, #1 Weld - Black (12ft Length)	
17C	7023418	1	Cable, #1 Weld - Red (12ft Length)	
17D	7023415	1	Clamp, Ground	
17E	7023416	1	Holder, Electrode	
17F	7023417	2	Lugs, Cable	
18	3251963	1	Nameplate - Welding Leads	
19	3311405	2	Locknut 1/4in-20NC	
20	3311505	4	Locknut 5/16in-18NC	
22	3311805	4	Locknut 1/2in-13NC	
23	4060802	1	Guard, Switch	
24	4360336	1	Switch, Toggle	
25		Ref	Hydraulic Welder Assembly Options (See Items 101-147 for Breakdown):	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
25	4530016	1	225A	
25	4530020	1	200A	
26	4641164	1	Diverter Valve Assembly	
27	4740397	1	Spacer, Washer	
28	4751400	2	Flatwasher 1/4in	
29	4751500	12	Flatwasher 5/16in	
31	4751800	4	Flatwasher 1/2in	
32	4846213	1	Support, Welder	
33	4846231	1	Support, Weld Lead	
34	4922442	1	Harness, Electrical (Not Shown) **(Prior to SN 0300064404)**	1/A
34	3990001	1	Diode 3Amp	
34	4460741	1	Connector, Relay	
36	1704919	1	Decal - Positive	
37	1704920	1	Decal - Negative	
38	3252764	1	Nameplate - AC and Weld	
39	0750605	4	Screw	
40	3620034	1	Oil Cooler Assembly	
41	1705000	1	Decal - SkyWelder (Platform)	
42	1705305	1	Decal - Weld Lead **(SN 0300066961 through 0300068333)**	
		Ref	**HYDRAULIC WELDER ASSEMBLIES**	
	4530016	Ref	**225A**	C
	4530020	Ref	**200A**	B
102	7023444	2	Grid - Front	
103	7023445	1	Shield Front	
104	7023446	1	Fan	
105	7023251	1	Rotor	
106	7023252	1	Bearing	
107		Ref	Impedance, Weld Options:	
107	7023253	1	225A	
107	7024313	1	200A	
108	7023447	1	Cover	
109	7023254	1	Switch, Step	
110	7023255	1	Selector, Range	
111	7023256	1	Knob, Switch	
112	7023257	2	Terminal, Female Weld Cable Attached	
113	7023258	2	Terminal, Male Weld Cable Attached	
114	See Note	1	Panel, Front (Note: Not Available - Purchase Complete Welder Assembly)	
115	7023259	1	Bridge, Rectifier	
116	7023260	1	Brushes and Holder	
117		Ref	Panel, Receptacle Options (Panel Only):	
117	7023419	1	225A	
117	7024315	1	200A	
121	7023261	1	Ring, Slip	
122	7023262	1	Cover, Slip Ring	
123	7022363	1	Varistor	
124	7023264	2	Bridge, Single Phase Rectifier	
126		Ref	Housing and Stator Options:	
126	7023265	1	225A	
126	7024316	1	200A	
127	7023266	4	Bolt, Stay M8 x 30mm	
128	7023267	4	Bolt, Stay	

SECTION 4 - PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
139	7023448	1	Rail Set	
140	7023449	1	Duct	
141		Ref	Panel Assembly (Complete) Options:	
141	7023420	1	225A	
141	See Note	1	200A (Note: Not Available for Purchase)	
141A		Ref	Receptacle, Twistlock Options:	
141A	7023421	1	225A	
141A	See Note	1	200A (Note: Not Available for Purchase)	
141B	7023422	1	Control, Fine	
141B	7024436	1	Knob	
141C	7023423	1	Light - AC	
141D		Ref	Receptacle Options:	
141D	7023424	1	225A	
141D	See Note	1	200A (Note: Not Available for Purchase)	
141E	7023425	1	Harness (Not Shown)	
142	See Note	1	Mount, Motor (Note: Not Available for Purchase)	
143	7023426	1	Coupling	
144	See Note	1	Guard, Coupling (Note: Not Available for Purchase)	
145	7023427	1	Valve Assembly	
146		Ref	Motor Assembly Options:	
146	7023428	1	225A	
146	7024317	1	200A	
147	7024559	2	Cover, Weld Receptacle W/Cover	

FIGURE 4-18. SKYWELDER INSTALLATION (50HZ) (SN 0300068333 through 0300096000)

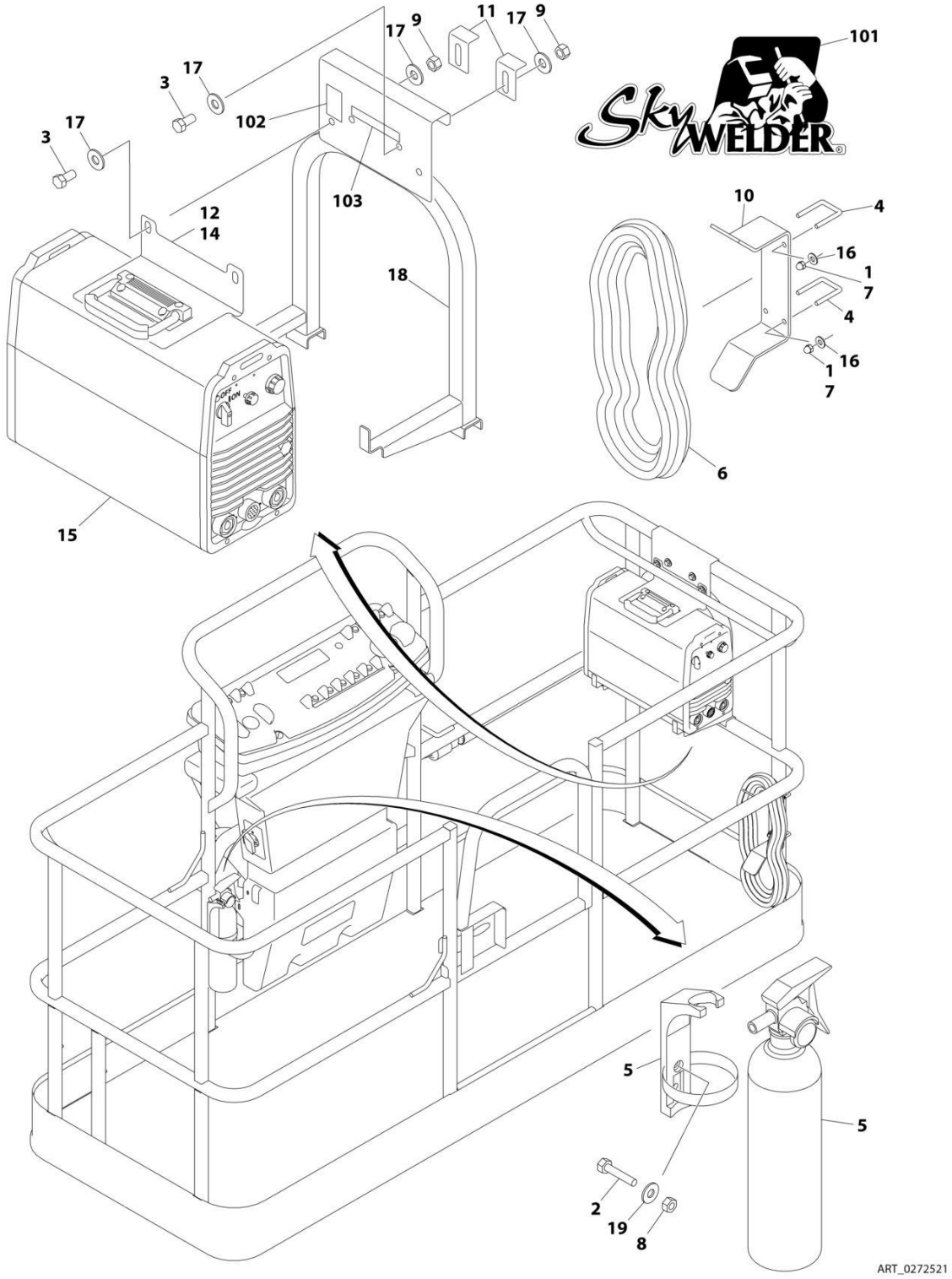


FIGURE 4-18. SKYWELDER INSTALLATION (50HZ) (SN 0300068333 through 0300096000)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272521	Ref	**SKYWELDER INSTALLATION (50HZ) (SN 0300068333 through 0300096000)**	F
1	0100011	AR	Compound, Locking	
2	0630518	2	Screw #10 x 3/4	
3	0641606	4	Bolt 3/8 x 3/4	
4	1320302	2	U-Clamp	
5	2030010	1	Extinguisher, Fire	
6	2902217	1	Weld Leads Kit	
7	3300151	4	Nut 1/4	
8	3311005	2	Nut #10	
9	3311605	4	Nut 3/8	
10	3573400	1	Bracket	
11	3577121	2	Angle	
12	3573642	1	Plate	
13	4240099	AR	Tie-Strap (Not Shown)	
14	4420037	AR	Tape	
15		Ref	Welder Assembly Options (See WELDER ASSEMBLY for Breakdown):	
15	4530022	1	Miller Model CST250 **(Prior to SN 0300083533)**	
15	4530028	1	Miller Model CST280 **(SN 0300083533 through 0300096000)**	
16	4751400	4	Washer 1/4	
17	4751600	8	Washer 3/8	
18	4846627	1	Support	
19	4751000	2	Washer #10	
	0272588	Ref	**SKYWELDER DECAL INSTALLATION**	A
101	1705355	2	Decal - SkyWelder	
102	1705305	1	Decal - Weld Lead	
103	1705466	1	Decal - Weight	

FIGURE 4-19. WELDER ASSEMBLY

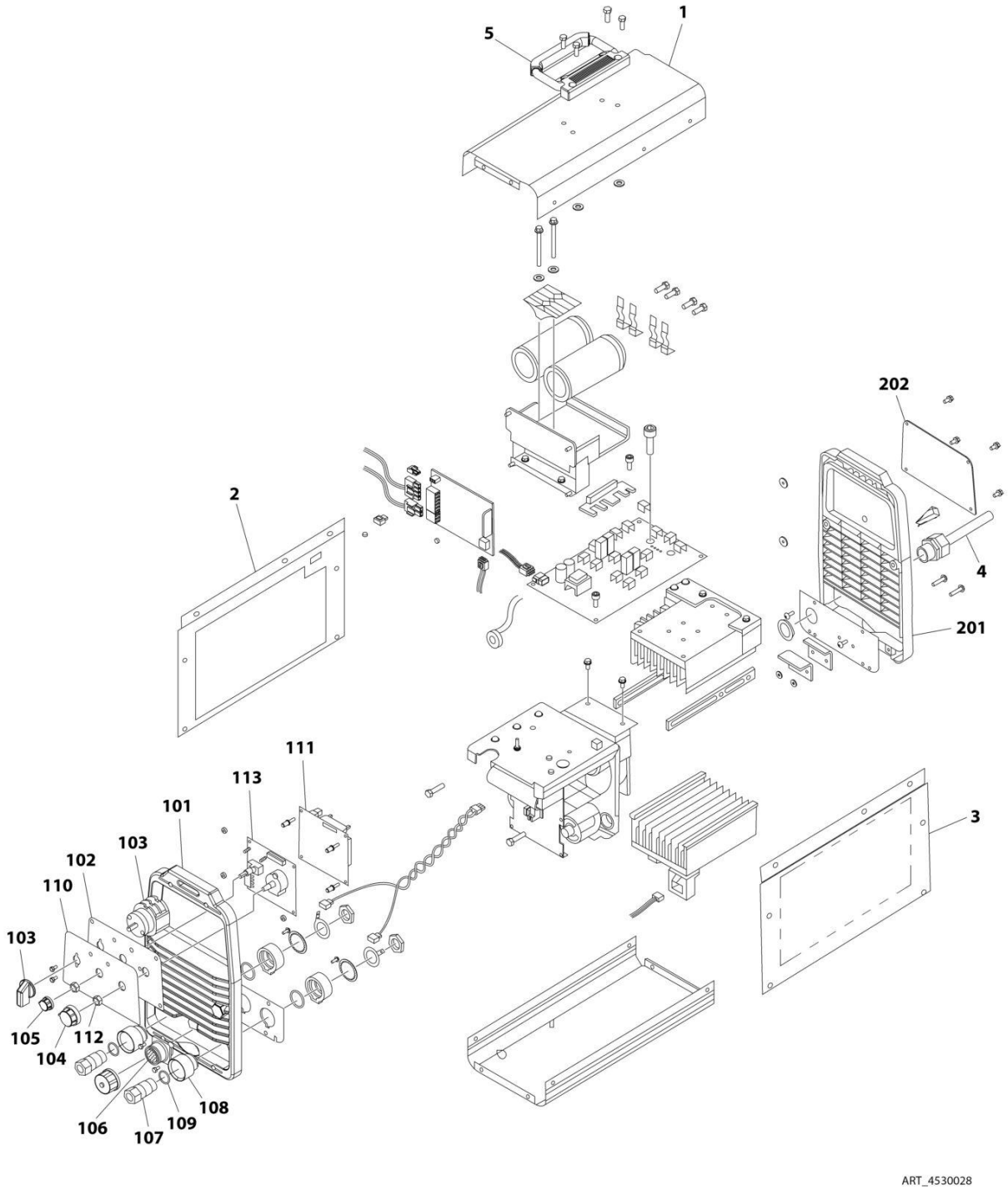


FIGURE 4-19. WELDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4530028	Ref	**WELDER ASSEMBLY**	B
		Ref	**Note: For Other Components, contact your Miller Welder Dealer.**	
1		Ref	Cover, Top Options:	
1	7024464	1	Miller Model CST250 **(Prior to SN 0300083533)**	
1	7027773	1	Miller Model CST280 **(SN 0300083533 through 0300096000)**	
1	7027774	1	Decal - Static Precautionary Warning **(SN 0300083533 through 0300096000)**	
2		Ref	Panel, LH Side Options	
2	7024465	1	Miller Model CST250 **(Prior to SN 0300083533)**	
2	See Note	NSS	Miller Model CST280 (Note: Part of Item 1. Purchase Item 1) **(SN 0300083533 through 030009600)**	
3		Ref	Panel, RH Side Options:	
3	7024466	1	Miller Model CST250 **(Prior to SN 0300083533)**	
3	See Note	NSS	Miller Model CST280 (Note: Part of Item 1. Purchase Item 1) **(SN 0300083533 through 0300096000)**	
4	7024467	1	Cable, Power	
4	7024467	1	Decal - Electrical Shock Warning (Not Shown) **(SN 0300083533 through 0300096000)**	
5		Ref	Handle, Carrying Options:	
5	7024468	1	Miller Model CST250 **(Prior to SN 0300083533)**	
5	7027776	1	Miller Model CST280 **(SN 0300083533 through 0300096000)**	
101	7024462	1	Panel, Front	
102	7024463	1	Panel, Console	
103	7024469	1	Switch with Lead	
104	7024470	1	Knob	
105	7024471	1	Knob	
106	7024472	1	Receptacle with Leads and Plugs	
107	7024473	2	Receptacle, Twistlock Female	
108	7024474	2	Insulator	
109	7024475	2	O-Ring	
110		Ref	Nameplate Options:	
110	7024476	1	Miller Model CST250 **(Prior to SN 0300083533)**	
110	7027777	1	Miller Model CST280 **(SN 0300083533 through 0300096000)**	
111		Ref	Circuit Card Assembly (Process Control) Options:	
111	7024477	1	Miller Model CST250 **(Prior to SN 0300083533)**	
111	7027779	1	Miller Model CST280 **(SN 0300083533 through 0300096000)**	
112	7024478	2	Nut	
113		Ref	Circuit Card Assembly (Operator Interface) Options:	
113	See Note	NSS	Miller Model CST250 (Note: Not Available for Purchase) **(Prior to SN 0300083533)**	
113	7027778	1	Miller Model CST280 **(SN 0300083533 through 0300096000)**	
201	7024462	1	Panel, Rear	
202		Ref	Panel, Cover Options:	
202	7024479	1	Miller Model CST250 **(Prior to SN 0300083533)**	
202	7027780	1	Miller Model CST280 **(SN 0300083533 through 0300096000)**	

FIGURE 4-20. PIPE RACKS INSTALLATION

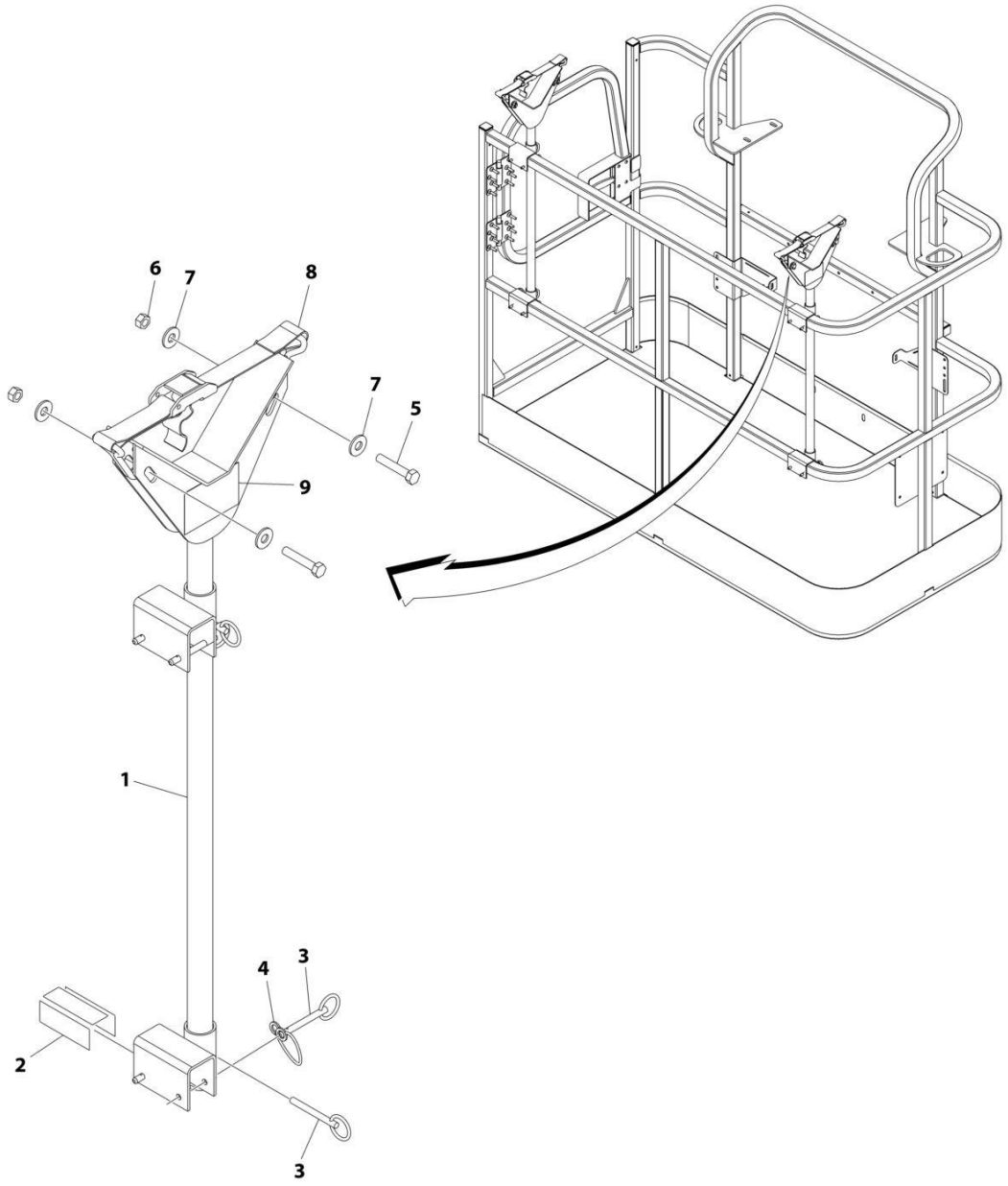


FIGURE 4-20. PIPE RACKS INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0257728	Ref	**PIPE RACKS INSTALLATION**	2/C
1	4845582	2	Rack, Pipe	
2	4420062	AR	Tape	
3	3422661	10	Pin	
4	1060379	4	Lanyard	
5	0641514	4	Bolt 5/16 x 1-3/4	
6	3311505	4	Nut 5/16	
7	4751500	8	Washer 5/16	
8	0480100	2	Tie-Down	
9	1703683	2	Decal - Capacity	

SECTION 5 - CYLINDER

FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLY

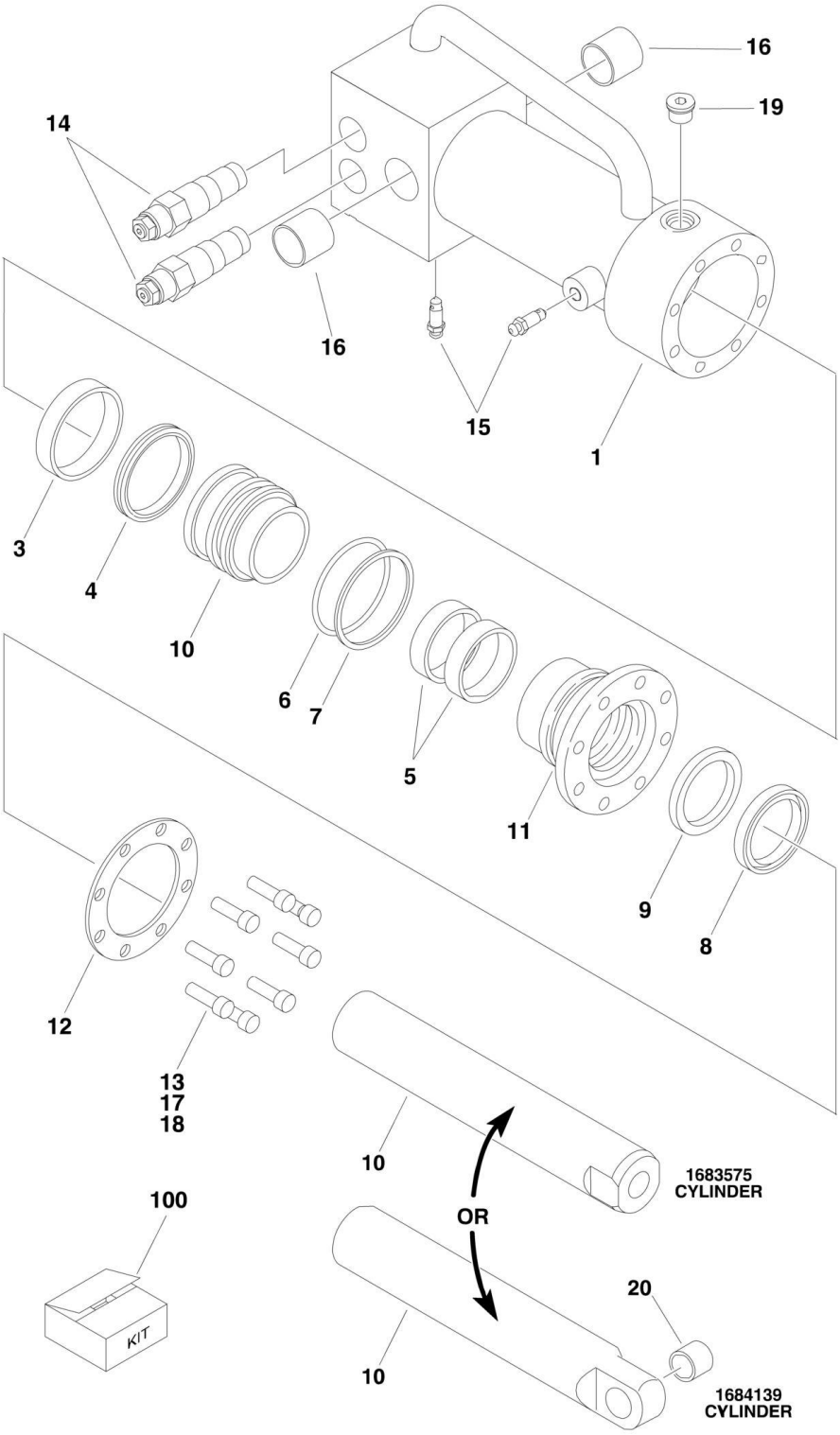


FIGURE 5-1. AXLE LOCKOUT CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
		Ref	**AXLE LOCKOUT CYLINDER ASSEMBLIES**	
	1683575	Ref	**Axle Lockout Cylinder Assemblies (Original Equipment) (Prior to SN 0300065402)**	E
	1684139	Ref	**Axle Lockout Cylinder Assemblies (Service Replacement) (Prior to SN 0300065402)**	D
	1684139	Ref	**Axle Lockout Cylinder Assemblies (SN 0300065402 through 0300096000)**	D
1	1683572	1	Barrel Weldment	
3	See Note	NSS	Ring, Wear (Note: Use Item 100)	
4	See Note	NSS	T-Seal (Note: Use Item 100)	
5	See Note	NSS	Ring, Wear (Note: Use Item 100)	
6	See Note	NSS	O-Ring (Note: Use Item 100)	
7	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
8	See Note	NSS	Wiper (Note: Use Item 100)	
9	See Note	NSS	Seal (Note: Use Item 100)	
10		Ref	Rod Weldment Options:	
10	1683574	1	1683575 Cylinder	
10	1684138	1	1684139 Cylinder	
11	1683076	1	Cap	
12	3760367	1	Ring, Washer	
13	3931516	8	Bolt, Socket Head 5/16in-18NC x 2in	
14	4641162	2	Cartridge, Valve (Counterbalance)	
14	2900770	2	Seal Kit - 4641162 Valve (1 Per Assembly)	
15	4640858	2	Valve, Bleeder	
16		Ref	Bushing Options:	
16	0961890	NLA	1683575 Cylinder (Use p/n 0962474)	
16	0962474	2	1684139 Cylinder	
17	0100011	AR	Compound, Locking	
18	0100038	AR	Primer, Locking	
19	2220885	1	Plug, O-Ring	
20	0962140	1	Bushing (1684139 Cylinder Only)	
100	2901548	1	Seal Kit (Includes Items 3-9)	

FIGURE 5-2. LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY

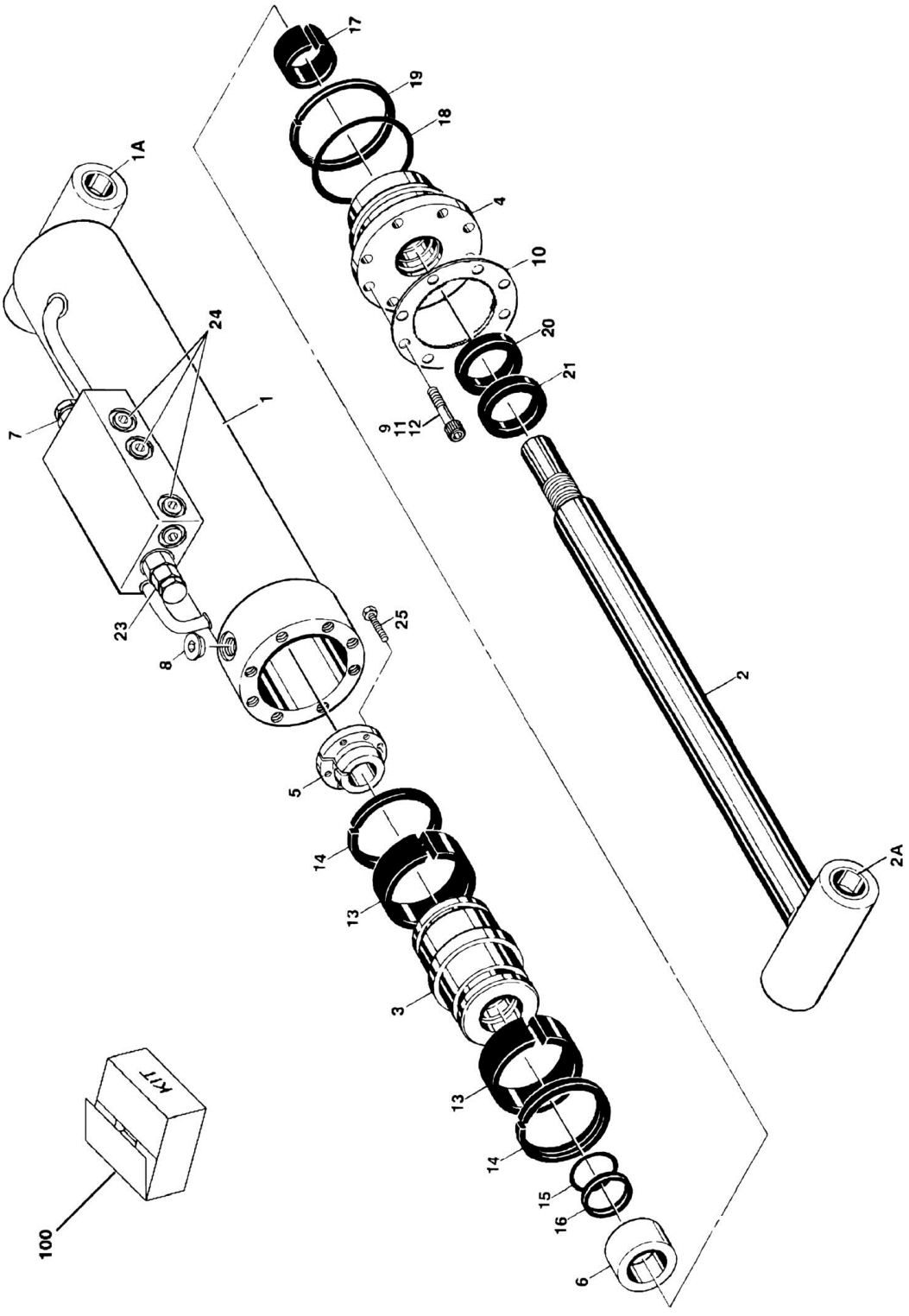


FIGURE 5-2. LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
		Ref	**PLATFORM LEVEL CYLINDER ASSEMBLIES**	
	See Note	Ref	**Platform Level Cylinder Assemblies 400S (Original Equipment was p/n 1683778) (Note: See LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY (400S - SERVICE REPLACEMENT CYLINDER) for Service Replacement)**	E
	1684013	Ref	**Platform Level Cylinder Assemblies 460SJ**	A
1	1683952	1	Barrel Weldment (Note: Does not Include Item 1A - Purchase Separately)	
1A	0961951	2	Bushing	
2		Ref	Rod Weldment Options (Note: Does not Include Item 2A - Purchase Separately):	
2	1683861	1	Rod Weldment 400S	
2	1684012	1	Rod Weldment 460SJ	
2A	0961951	2	Bushing	
3	3480188	1	Piston	
4	1683055	1	Head	
5	0961894	1	Bushing, Tapered	
6	4566468	1	Spacer	
7	4640509	1	Cartridge, Valve	
7	2900792	1	Seal Kit - 4640509 Valve	
8	2220885	1	Plug, O-Ring	
9	3931620	8	Capscrew, Socket Head 3/8in-16NC x 1-1/4in	
10	3760369	1	Ring, Washer	
11	0100011	AR	Compound, Locking	
12	0100038	AR	Primer, Locking	
13	See Note	NSS	Seal (Note: Use Item 100)	
14	See Note	NSS	Ring, Lock (Note: Use Item 100)	
15	See Note	NSS	O-Ring (Note: Use Item 100)	
16	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
17	See Note	NSS	Ring, Wear (Note: Use Item 100)	
18	See Note	NSS	O-Ring (Note: Use Item 100)	
19	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
20	See Note	NSS	Seal, Rod (Note: Use Item 100)	
21	See Note	NSS	Wiper (Note: Use Item 100)	
23	4640932	1	Cartridge, Valve	
23	7011112	1	Seal Kit	
24	2220883	8	Plug, O-Ring	
25	0630535	3	Screw, Socket Head 1/4in-20NC x 1-1/8in	
100	2901301	1	Seal Kit (Includes Items 13-21)	

FIGURE 5-3. LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY (400S - SERVICE REPLACEMENT CYLINDER)

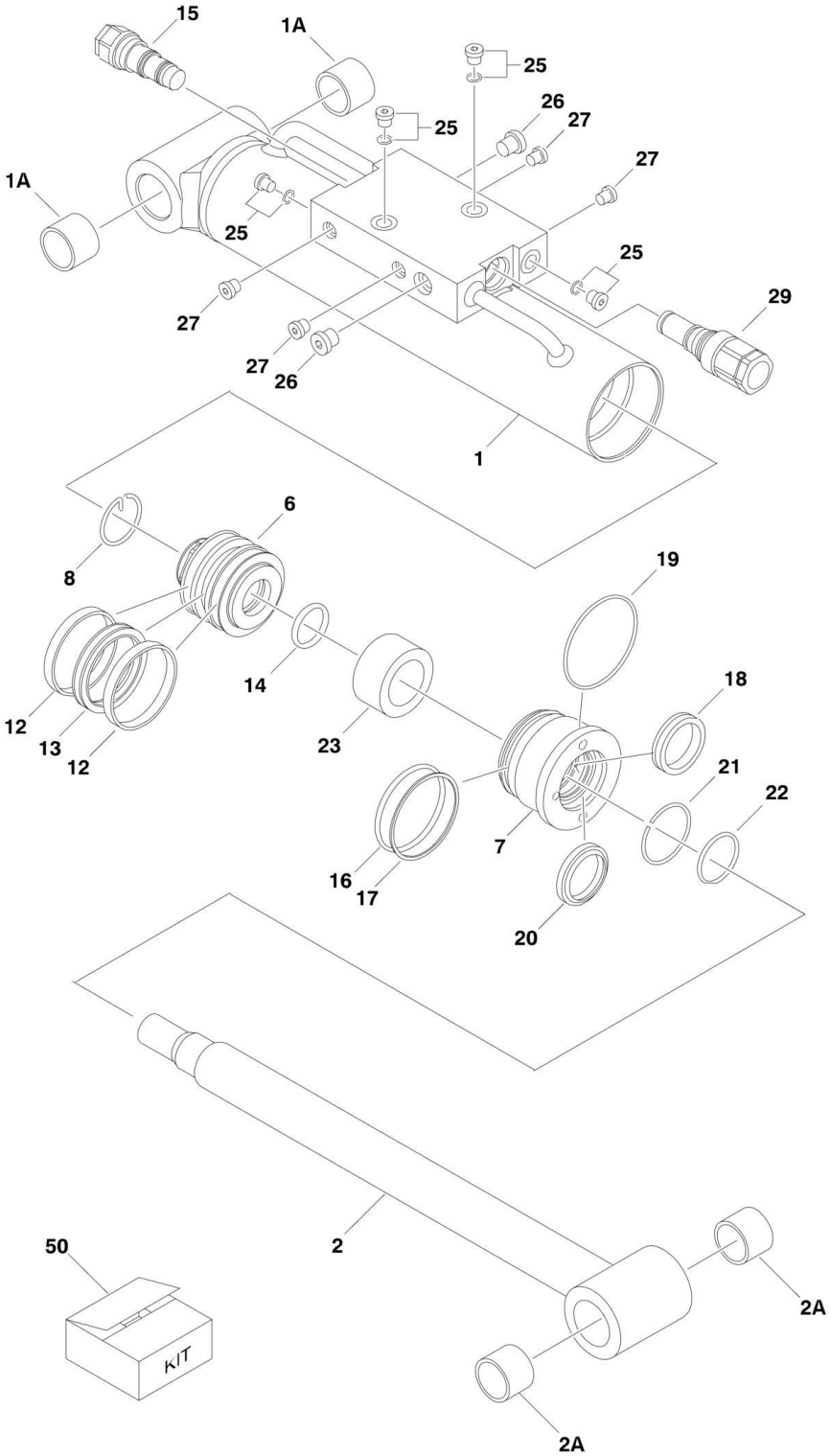


FIGURE 5-3. LEVEL (PLATFORM SLAVE) CYLINDER ASSEMBLY (400S - SERVICE REPLACEMENT CYLINDER)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
		Ref	**PLATFORM LEVEL CYLINDER ASSEMBLY**	
	1001140586	Ref	**Platform Level Cylinder Assembly 400S (Service Replacement for p/n 1683778)**	B
1	70004137	1	Barrel	
1A	0961951	2	Bushing	
2	70004138	1	Rod	
2A	0961951	2	Bushing	
6	70003848	1	Head	
7	70004136	1	Piston	
8	70002224	1	Retainer	
12	See Note	NSS	Ring, Wear (Note: Use Item 50)	
13	See Note	NSS	Seal (Note: Use Item 50)	
14	See Note	NSS	O-Ring (Note: Use Item 50)	
15	4640509	1	Cartridge, Counterbalance Valve	
15	2900792	1	Seal Kit - 4640509 Valve	
16	See Note	NSS	O-Ring (Note: Use Item 50)	
17	See Note	NSS	Ring, Back-up (Note: Use Item 50)	
18	See Note	NSS	Seal (Note: Use Item 50)	
19	See Note	NSS	O-Ring (Note: Use Item 50)	
20	See Note	NSS	Wiper (Note: Use Item 50)	
21	70003838	1	Ring, Retaining	
22	70003856	1	O-Ring	
23	70003839	1	Spacer	
25	See Note	2	Plug (Note: Not Available for Purchase)	
26	See Note	2	Plug (Note: Not Available for Purchase)	
27	See Note	4	Plug (Note: Not Available for Purchase)	
29	4640932	1	Cartridge, Counterbalance Valve	
29	7011112	1	Seal Kit - 4640932 Valve	
50	70004128	1	Seal Kit - 1001140596 Cylinder (Includes Items 12-14 & 16-20)	

FIGURE 5-4. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (ORIGINAL EQUIPMENT)

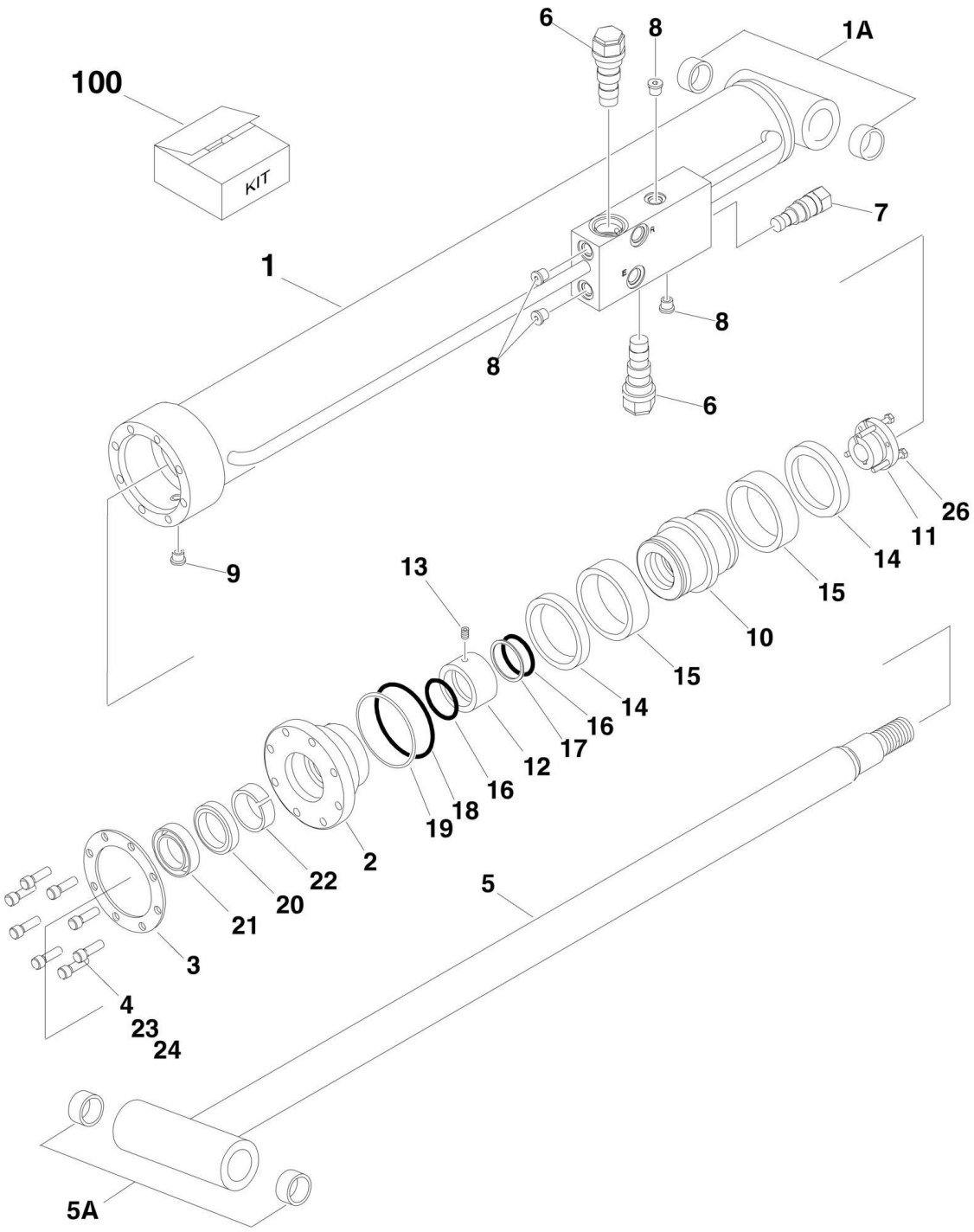


FIGURE 5-4. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (ORIGINAL EQUIPMENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1683609	Ref	**JIB LIFT CYLINDER ASSEMBLY (460SJ)**	G
		Ref	**Note: Original Cylinder may have been replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.**	
1	1683687	1	Barrel Weldment	
1A	0962336	2	Bushing	
2	1683053	1	Head	
3	3760368	1	Washer, Ring	
4	3931516	8	Bolt, Socket Head 5/16in-18NC x 2in	
5	1683261	1	Rod Weldment	
5A	0962336	2	Bushing	
6	4640509	2	Cartridge, Valve (Counterbalance Non-Vented)	
6	2900792	2	Seal Kit - 4640509 Valve	
7	4641062	1	Plug **(Prior to SN 0300069330)**	
8	2220883	4	Plug, O-Ring	
9	2220885	1	Plug, O-Ring	
10	3480210	1	Piston	
11	0961893	1	Bushing, Tapered	
12		Ref	Spacer, Tube Options:	
12	4566471	1	Spacer, Tube (Uses Setscrew) **(Prior to SN 0300079702)**	
12	4100100	1	Spacer, Tube (Uses O-Ring) **(SN 0300079702 through 0300096000)**	
13	3900141	1	Setscrew 1/4in-20NC x 1/4in Only **(Prior to SN 0300079702)**	
14	See Note	NSS	Ring, Lock (Note: Use Item 100)	
15	See Note	NSS	Seal, Piston (Note: Use Item 100)	
16	See Note	NSS	O-Ring (Note: Use Item 100)	
17	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
18	See Note	NSS	O-Ring (Note: Use Item 100)	
19	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
20	See Note	NSS	Seal (Note: Use Item 100)	
21	See Note	NSS	Wiper (Note: Use Item 100)	
22	See Note	NSS	Ring, Wear (Note: Use Item 100)	
23	0100011	AR	Compound, Locking	
24	0100038	AR	Primer, Locking	
26	0630534	3	Capscrew, Socket Head #10-24NC x 1in	
100	2901303	1	Seal Kit (Includes Items 14-22)	

FIGURE 5-5. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (USAGE MAY VARY) (SERVICE REPLACEMENT)

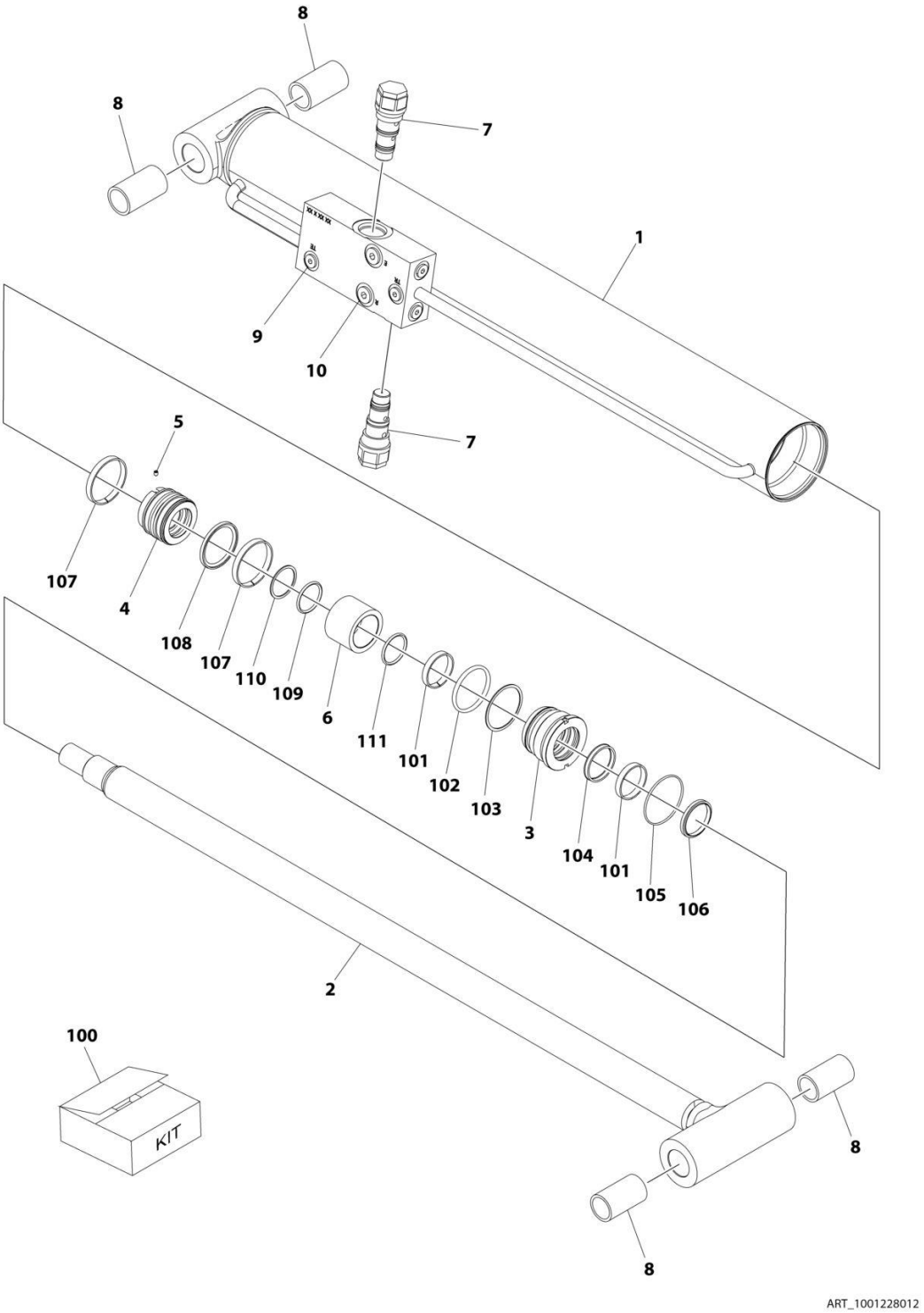


FIGURE 5-5. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (USAGE MAY VARY) (SERVICE REPLACEMENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001228012	Ref	LIFT CYLINDER ASSEMBLY - JIB	C
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70006572	1	Rod	
3	70006571	1	Head	
4	70006570	1	Piston	
5	70023915	1	Screw	
6	70006569	1	Spacer	
7	4640509	2	Cartridge, Valve	
7	2900792	2	Seal Kit - 4640509 Valve	
8	0962336	4	Bushing	
9	2220883	6	Plug, O-Ring	
10	2220885	2	Plug, O-Ring	
100	70006568	1	Seal Kit (Includes Items 101-111)	
101	See Note	NSS	Ring, Wear (Note: Use Item 100)	
102	See Note	NSS	O-Ring (Note: Use Item 100)	
103	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
104	See Note	NSS	Seal, Rod (Note: Use Item 100)	
105	See Note	NSS	O-Ring (Note: Use Item 100)	
106	See Note	NSS	Wiper (Note: Use Item 100)	
107	See Note	NSS	Ring, Wear (Note: Use Item 100)	
108	See Note	NSS	Seal (Note: Use Item 100)	
109	See Note	NSS	O-Ring (Note: Use Item 100)	
110	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
111	See Note	NSS	O-Ring (Note: Use Item 100)	

FIGURE 5-6. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (USAGE MAY VARY) (SERVICE REPLACEMENT)

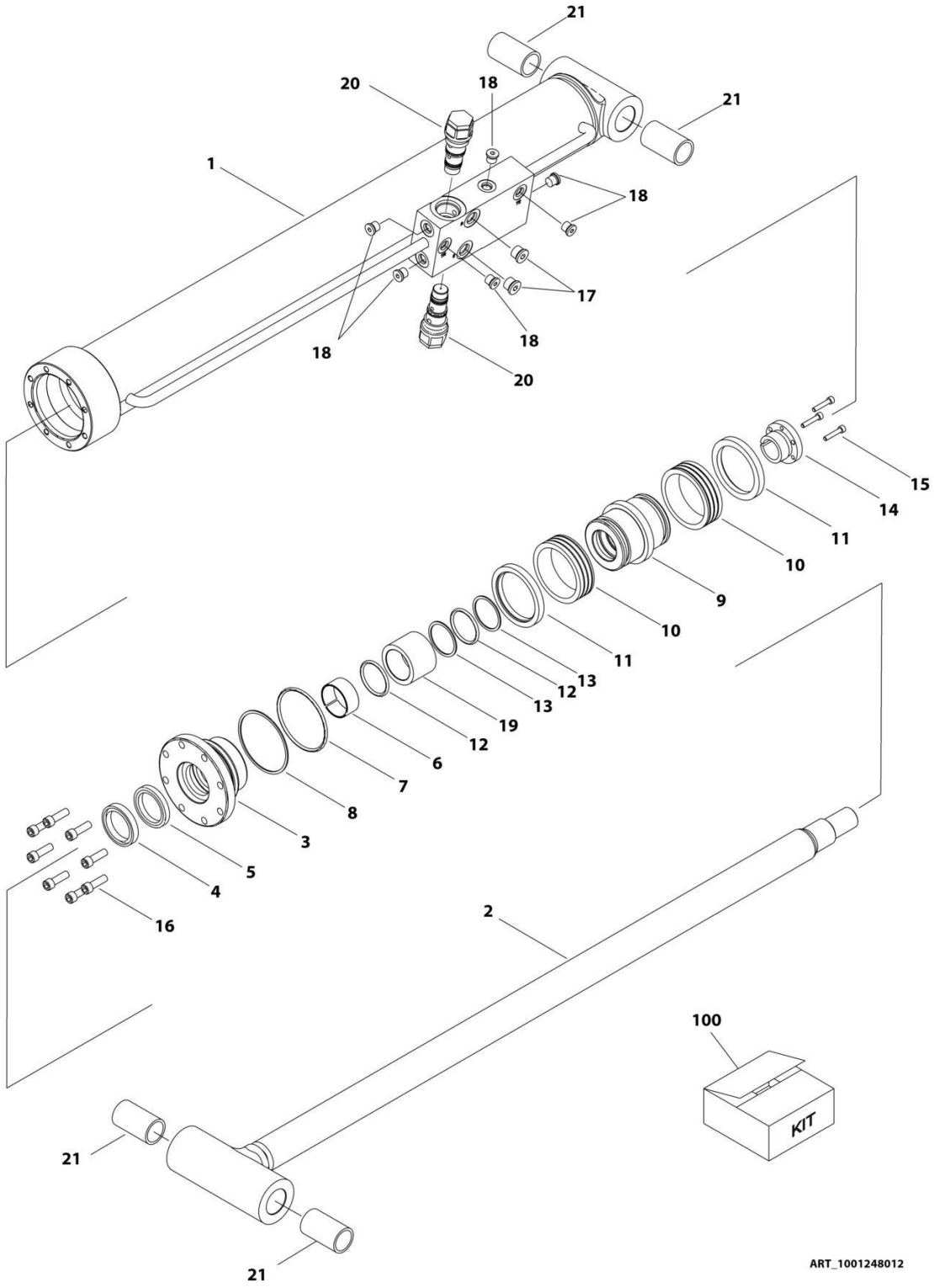


FIGURE 5-6. LIFT CYLINDER ASSEMBLY - JIB (460SJ) (USAGE MAY VARY) (SERVICE REPLACEMENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001248012	Ref	LIFT CYLINDER ASSEMBLY - JIB	A
		Ref	Note: Original Cylinder May Have Been Replaced with Service Replacement. Identify PN Stamped on Cylinder Before Ordering Parts.	
1	See Note	NSS	Barrel (Note: Not Available for Purchase)	
2	70006734	1	Rod	
3	70006649	1	Head	
4	See Note	NSS	Wiper (Note: Use Item 100)	
5	See Note	NSS	Seal, Rod (Note: Use Item 100)	
6	See Note	NSS	Ring, Wear (Note: Use Item 100)	
7	See Note	NSS	O-Ring (Note: Use Item 100)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
9	70006650	1	Piston	
10	See Note	NSS	Seal (Note: Use Item 100)	
11	See Note	NSS	Ring, Lock (Note: Use Item 100)	
12	See Note	NSS	O-Ring (Note: Use Item 100)	
13	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
14	0961893	1	Bushing, Tapered	
15	0630534	3	Capscrew, Socket Head #10 x 1	
16	70006735	8	Capscrew 5/16	
17	2220885	2	Plug, O-Ring	
18	2220883	6	Plug, O-Ring	
19	70006736	1	Spacer	
20	4640509	2	Cartridge, Valve	
20	2900792	2	Seal Kit - 4640509 Valve	
21	0962336	4	Bushing	
100	1001138795	1	Seal Kit (Includes Items 4-8 & 10-13)	

FIGURE 5-7. LIFT CYLINDER ASSEMBLY - MAIN

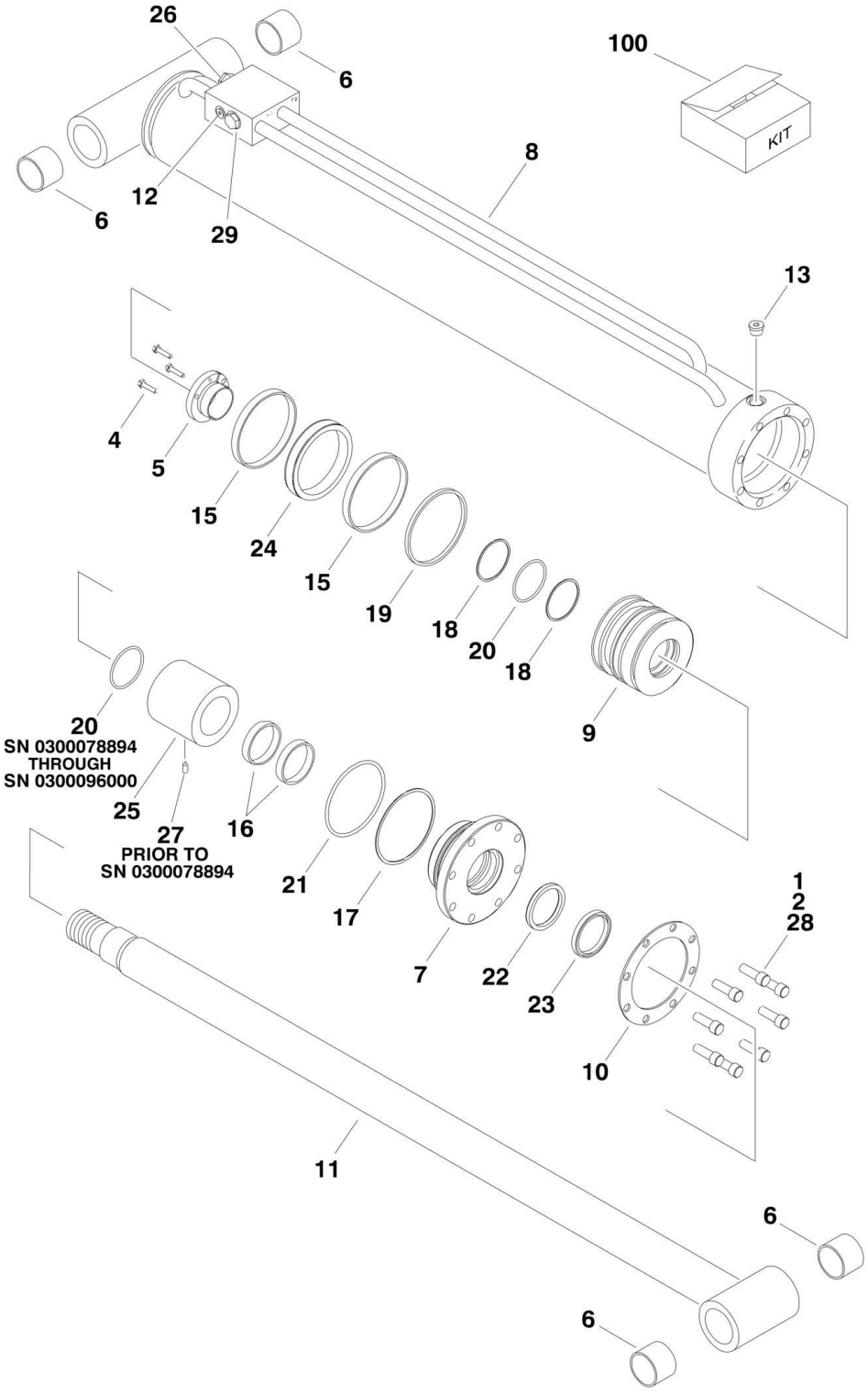


FIGURE 5-7. LIFT CYLINDER ASSEMBLY - MAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1683776	Ref	**LIFT CYLINDER ASSEMBLY**	D
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer, Locking	
4	0630535	3	Bolt, Socket Head #10-24NC x 1-1/8in	
5	0961897	1	Bushing, Tapered	
6	0961950	4	Bushing	
7	1683063	1	Head	
8	1683844	1	Barrel Weldment	
9	3480253	1	Piston	
10	3760371	1	Ring, Wear	
11	1683846	1	Rod Weldment	
12	2220883	1	Plug, O-Ring #4	
13	2220886	1	Plug, O-Ring #8	
15	See Note	NSS	Ring, Wear (Note: Use Item 100)	
16	See Note	NSS	Ring, Wear (Note: Use Item 100)	
17	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
18	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
19	See Note	NSS	Seal (Note: Use Item 100)	
20	See Note	NSS	O-Ring (Note: Use Item 100)	
21	See Note	NSS	O-Ring (Note: Use Item 100)	
22	See Note	NSS	Seal, Poly (Note: Use Item 100)	
23	See Note	NSS	Wiper (Note: Use Item 100)	
24	See Note	NSS	T-Seal (Note: Use Item 100)	
25		Ref	Spacer, Tube Options:	
25	See Note	1	Spacer, Tube (was p/n 4567949) (Note: Use p/ns 4100099 Sleeve and 3790230 O-Ring as a Replacement) **(Prior to SN 0300078894)**	
25	4100099	1	Spacer, Tube **(SN 0300078894 through 0300096000)**	
26	4640509	1	Valve, Counterbalance	
26	2900792	1	Seal Kit - 4640509	
27	3900139	1	Setscrew 1/4in-20NC x 1/2in Only **(Prior to SN 0300078894)**	
28	3931824	8	Capscrew 1/2in-18NC x 1-1/2in	
29	4641144	1	Cartridge, Valve	
29	7012967	1	Seal Kit - 4641144 Valve	
100	2901841	1	Seal Kit (Includes Items 15-24)	

FIGURE 5-8. MASTER CYLINDER ASSEMBLY (ORIGINAL EQUIPMENT)

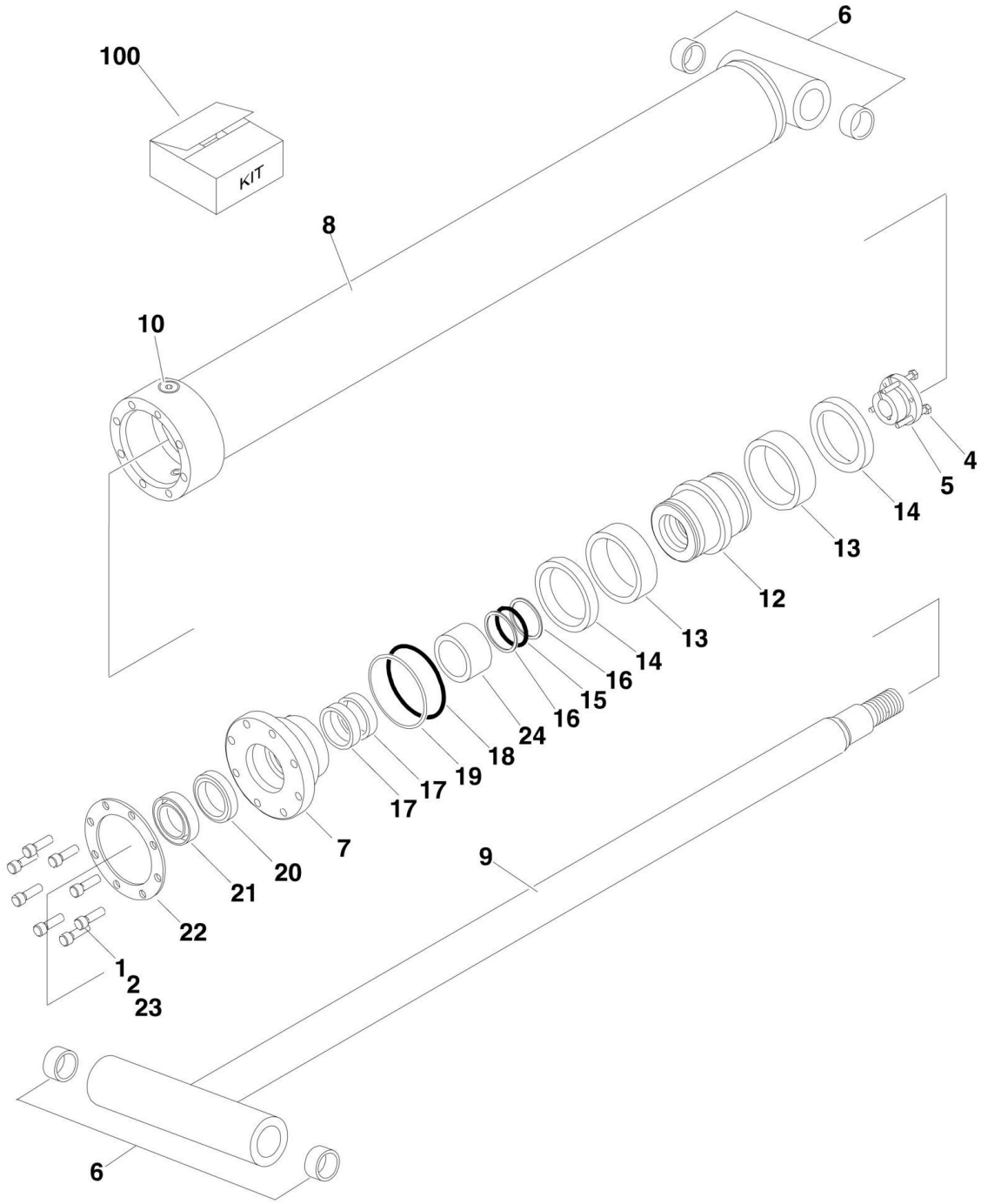


FIGURE 5-8. MASTER CYLINDER ASSEMBLY (ORIGINAL EQUIPMENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
		Ref	**MASTER CYLINDER ASSEMBLY**	
	1683951	Ref	**Master Cylinder Assembly (Prior to SN 0300074573)**	A
	1684284	Ref	**Master Cylinder Assembly (SN 0300074573 through 0300096000)**	B
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer, Locking	
4	0630535	3	Bolt, Socket Head #10-24NC x 1-1/8in	
5	0961894	1	Bushing, Tapered	
6	0961951	4	Bushing	
7	1683055	1	Head	
8		Ref	Barrel Weldment	
8	1683949	1	Barrel Weldment **(Prior to SN 0300074573)**	
8	1684283	1	Barrel Weldment **(SN 0300074573 through 0300096000)**	
9	1683950	1	Rod Weldment	
10	2220885	1	Plug, O-Ring #6	
12	3480188	1	Piston	
13	See Note	NSS	Ring, Hydrolock (Note: Use Item 100)	
14	See Note	NSS	Ring, Guidelock (Note: Use Item 100)	
15	See Note	NSS	O-Ring (Note: Use Item 100)	
16	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
17	See Note	NSS	Ring, Wear (Note: Use Item 100)	
18	See Note	NSS	O-Ring (Note: Use Item 100)	
19	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
20	See Note	NSS	Seal, Poly (Note: Use Item 100)	
21	See Note	NSS	Wiper (Note: Use Item 100)	
22	3760369	1	Ring, Washer	
23	3931620	8	Capscrew 3/8in-16NC x 1-1/4in	
24	4566468	1	Spacer, Tube	
100	2901301	1	Seal Kit (Includes Items 13-21)	

FIGURE 5-9. MASTER CYLINDER ASSEMBLY (SERVICE REPLACEMENT)

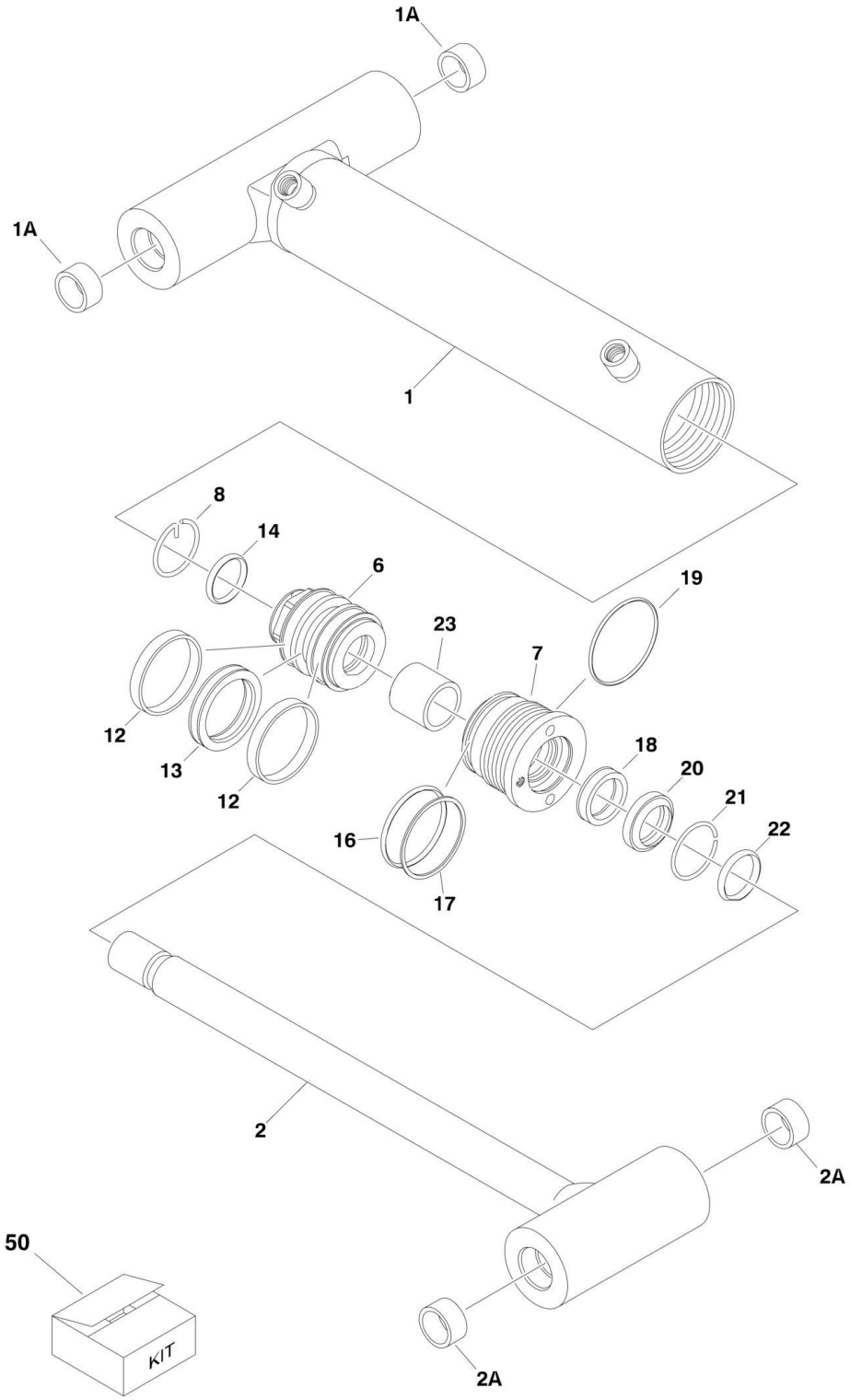


FIGURE 5-9. MASTER CYLINDER ASSEMBLY (SERVICE REPLACEMENT)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
	1001140587	Ref	**MASTER CYLINDER ASSEMBLY**	A
1	70004139	1	Barrel	
1A	0961951	2	Bushing	
2	70004140	1	Rod	
2A	0961951	2	Bushing	
6	70003848	1	Piston	
7	70004136	1	Head	
8	70002224	1	Retainer	
12	See Note	NSS	Ring, Wear (Note: Use Item 50)	
13	See Note	NSS	Seal (Note: Use Item 50)	
14	7026113	1	O-Ring	
16	See Note	NSS	O-Ring (Note: Use Item 50)	
17	See Note	NSS	Ring, Back-up (Note: Use Item 50)	
18	See Note	NSS	Seal (Note: Use Item 50)	
19	See Note	NSS	O-Ring (Note: Use Item 50)	
20	See Note	NSS	Wiper (Note: Use Item 50)	
21	70003838	1	Ring, Retaining	
22	70003856	1	O-Ring	
23	70003839	1	Spacer	
50	70004129	1	Seal Kit (Includes Items 12, 13 & 16-20)	

FIGURE 5-10. STEER CYLINDER ASSEMBLY (ORIGINAL EQUIPMENT) (Prior to SN 0300087392)

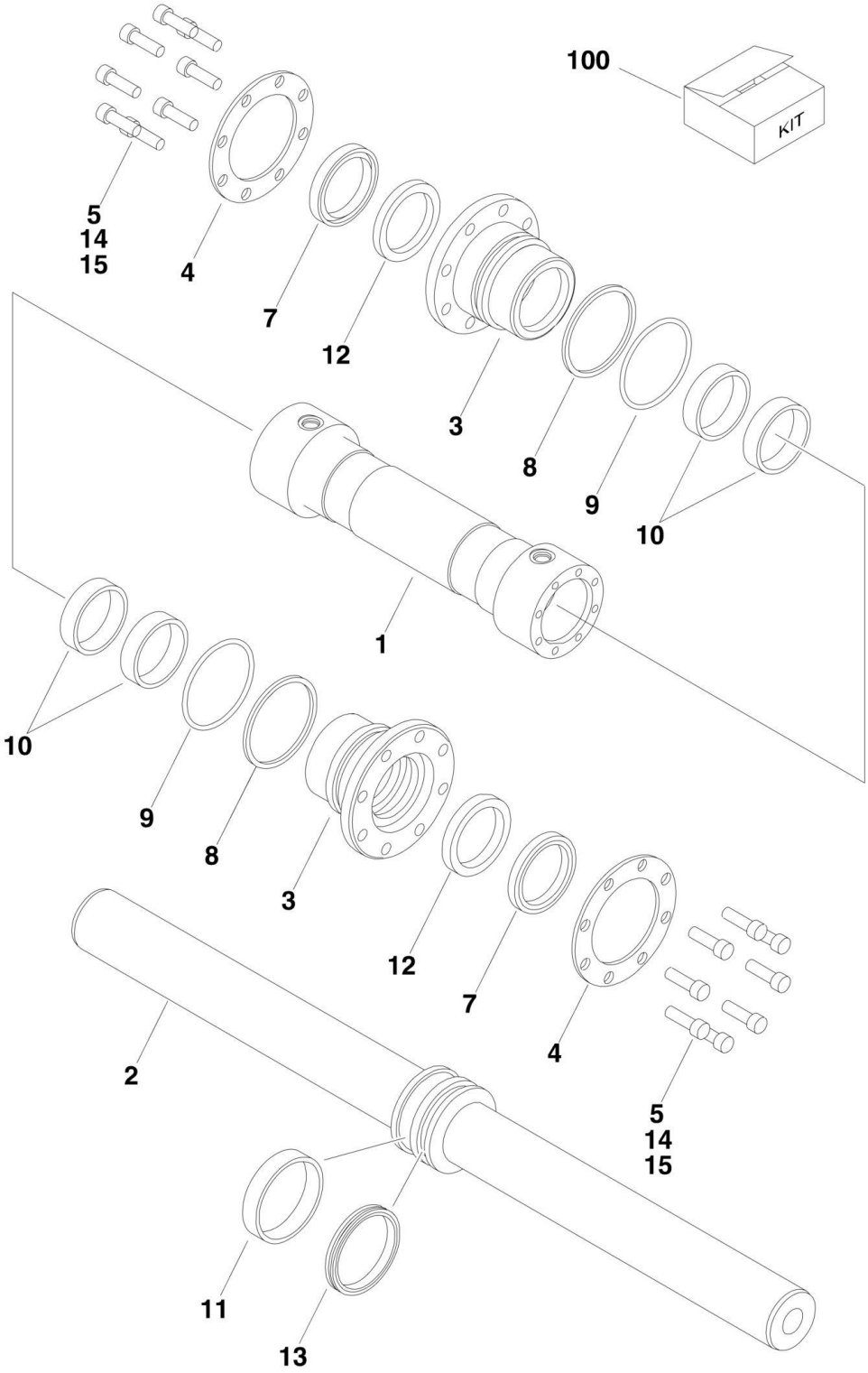


FIGURE 5-10. STEER CYLINDER ASSEMBLY (ORIGINAL EQUIPMENT) (Prior to SN 0300087392)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
	1683614	Ref	**STEER CYLINDER ASSEMBLY**	C
1	1683615	1	Barrel Weldment	
2	1683658	1	Rod Weldment	
3	1683076	2	Cap	
4	3760367	2	Washer, Ring	
5	3931516	16	Bolt, Socket Head 5/16in-18NC x 2in	
7	See Note	NSS	Wiper (Note: Use Item 100)	
8	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
9	See Note	NSS	O-Ring (Note: Use Item 100)	
10	See Note	NSS	Ring, Wear (Note: Use Item 100)	
11	See Note	NSS	Ring, Wear (Note: Use Item 100)	
12	See Note	NSS	Seal (Note: Use Item 100)	
13	See Note	NSS	T-Seal (Note: Use Item 100)	
14	0100011	AR	Compound, Locking	
15	0100038	AR	Primer, Locking	
100	2901547	1	Seal Kit (Includes Items 7-13)	

FIGURE 5-11. STEER CYLINDER ASSEMBLY (SERVICE REPLACEMENT AND ORIGINAL EQUIPMENT) (Prior to SN 0300087392, SN 0300087392 through 0300096000)

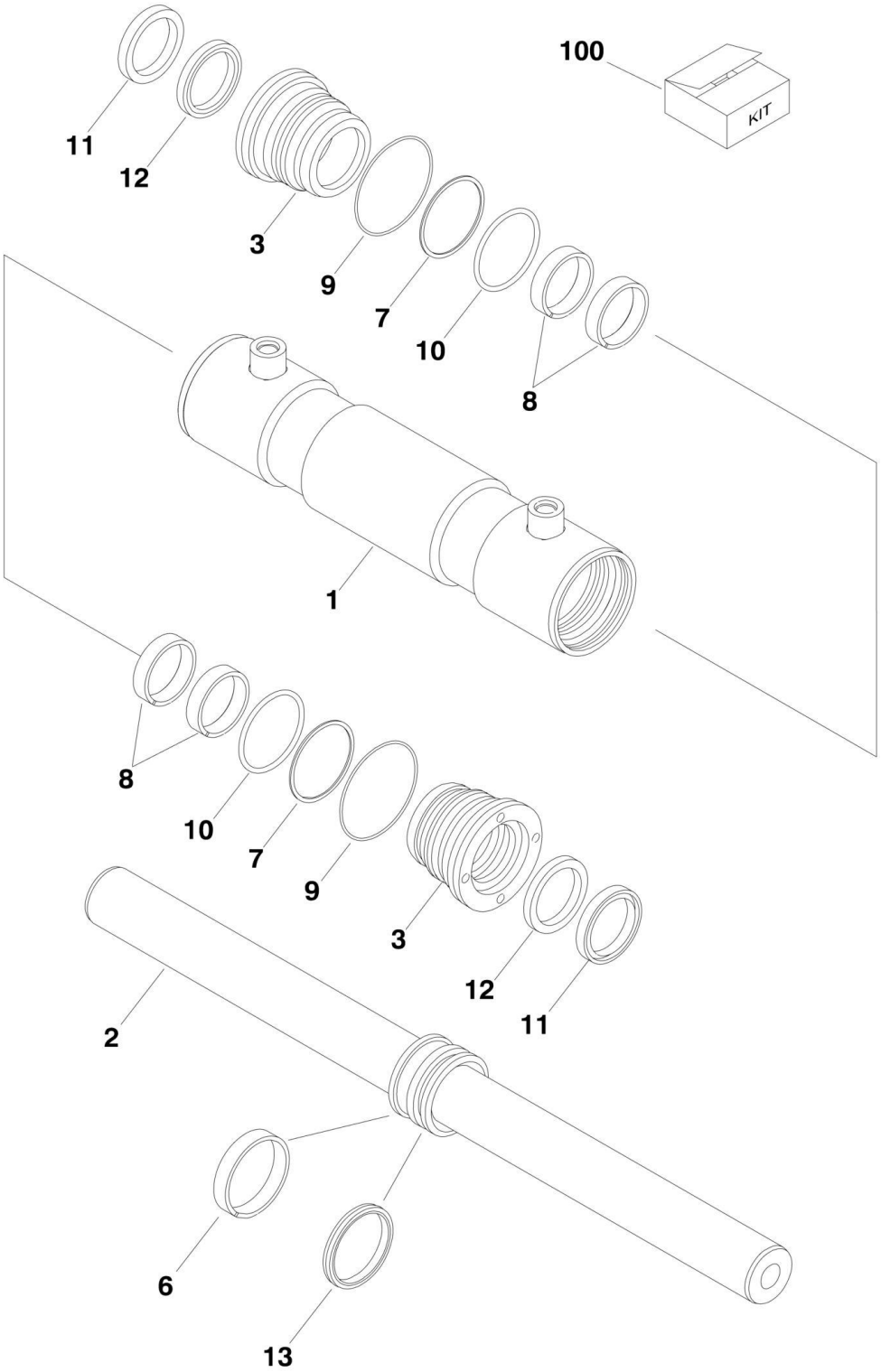


FIGURE 5-11. STEER CYLINDER ASSEMBLY (SERVICE REPLACEMENT AND ORIGINAL EQUIPMENT) (Prior to SN 0300087392, SN 0300087392 through 0300096000)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
	1684412	Ref	**STEER CYLINDER ASSEMBLY**	A
1	0370024	1	Barrel Weldment	
2	1683658	1	Rod Weldment	
3	2570008	2	Head, Cylinder	
4	3020043	1	Lube, Anti-Seize (Not Shown - Apply Only to Threads on Item 3)	
6	See Note	NSS	Ring, Wear (Note: Use Item 100)	
7	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
8	See Note	NSS	Ring, Wear (Note: Use Item 100)	
9	See Note	NSS	O-Ring (Note: Use Item 100)	
10	See Note	NSS	O-Ring (Note: Use Item 100)	
11	See Note	NSS	Wiper (Note: Use Item 100)	
12	See Note	NSS	Seal (Note: Use Item 100)	
13	See Note	NSS	T-Seal (Note: Use Item 100)	
100	2902409	1	Seal Kit (Includes Items 6-13)	

FIGURE 5-12. TELESCOPE CYLINDER ASSEMBLY

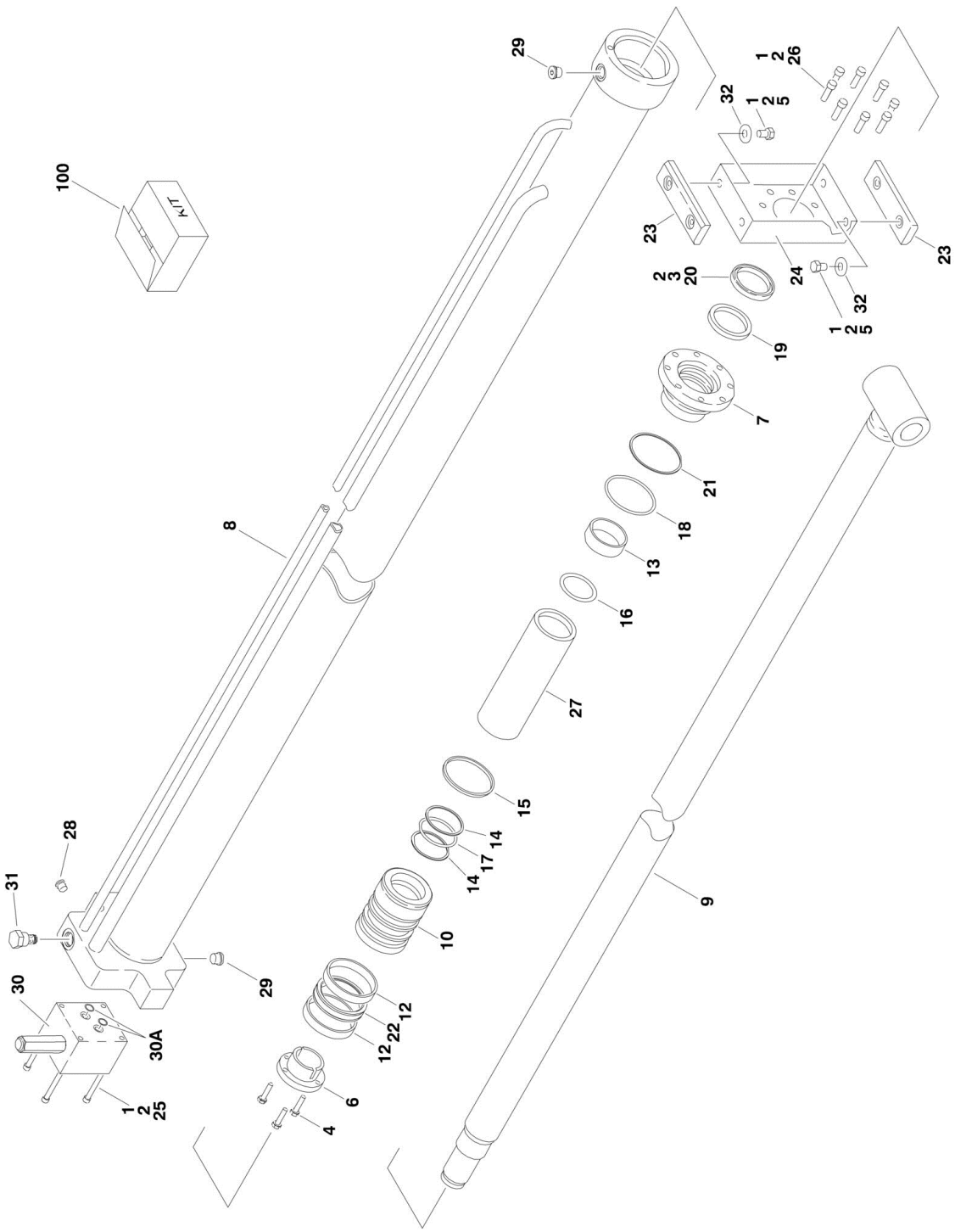


FIGURE 5-12. TELESCOPE CYLINDER ASSEMBLY

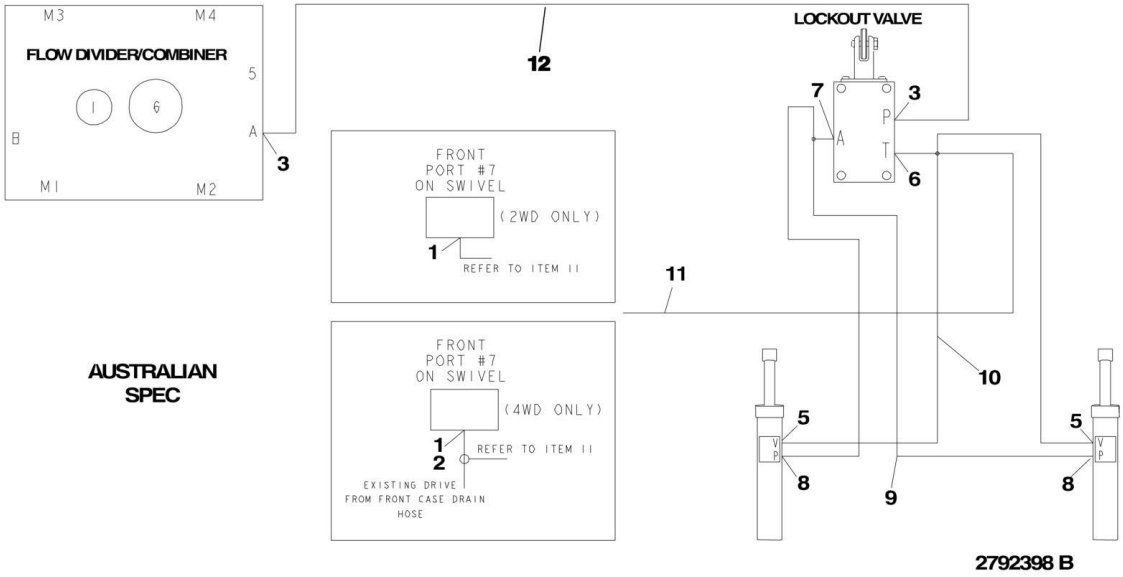
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Original Equipment Cylinder may have been replaced with Service Replacement Cylinder. Identify p/n stamped on cylinder before ordering parts.**	
		Ref	**TELESCOPE CYLINDER ASSEMBLIES**	
	1683897	Ref	**Telescope Cylinder Assemblies (Original Equipment) (Prior to SN 0300066372)**	B
	1684194	Ref	**Telescope Cylinder Assemblies (Service Replacement) (Prior to SN 0300066372)**	C
	1684194	Ref	**Telescope Cylinder Assemblies (SN 0300066372 through 0300096000)**	C
1	0100011	AR	Compound, Locking	
2	0100038	AR	Primer, Locking	
3	0100063	AR	Adhesive	
4	0630535	3	Bolt, Socket Head 1/4in-20NC x 1-1/8in	
5	0641604	4	Bolt 3/8in-16NC x 1/2in	
6	0961896	1	Bushing, Tapered	
7	1683054	1	Head	
8		Ref	Barrel Weldment Options:	
8	1683893	1	Cylinder p/n 1683897	
8	1684193	1	Cylinder p/n 1684194	
9		Ref	Rod Weldment Options:	
9	1683895	1	Cylinder p/n 1683897	
9	1684312	1	Cylinder p/n 1684194	
10		Ref	Piston Options:	
10	3480255	1	Cylinder p/n 1683897	
10	3480274	1	Cylinder p/n 1684194	
12	See Note	NSS	Ring, Wear (Note: Use Item 100)	
13	See Note	NSS	Ring, Wear (Note: Use Item 100)	
14	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
15	3760436	1	Seal (Cylinder p/n 1683897 Only)	
16	See Note	NSS	O-Ring (Note: Use Item 100)	
17	See Note	NSS	O-Ring (Note: Use Item 100)	
18	See Note	NSS	O-Ring (Note: Use Item 100)	
19	See Note	NSS	Seal, Rod (Note: Use Item 100)	
20	See Note	NSS	Wiper (Note: Use Item 100)	
21	See Note	NSS	Ring, Back-up (Note: Use Item 100)	
22	See Note	NSS	Seal (Note: Use Item 100)	
23	3340608	2	Pad, Wear	
24	3571795	1	Plate, Wear Pad Mounting	
25	3931448	4	Capscrew 1/4in-20NC x 3in	
26	3931516	8	Capscrew 5/16in-18NC x 1in	
27	4566425	1	Spacer, Tube	
28	2220883	1	Plug, O-Ring #4 (Cylinder p/n 1683897 Only)	
29	2220885	2	Plug, O-Ring #6	
30	4641033	1	Valve, Counterbalance	
30A	7024508	2	O-Ring	
31		Ref	Options:	
31	4641114	1	Cartridge, Valve - Restrictor/Check (Cylinder p/n 1683897 Only)	
31	7012967	1	Seal Kit - 4641114 Valve	
31	2220886	1	Plug, O-Ring #8 (Cylinder p/n 1683897 Only)	
32	4751600	4	Flatwasher 3/8in Regular	

SECTION 5 - CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
100	2901861	1	Seal Kit (Includes Items 12-14 & 16-22)	

SECTION 6 - HYDRAULIC

FIGURE 6-1. AXLE LOCKOUT HYDRAULIC DIAGRAM



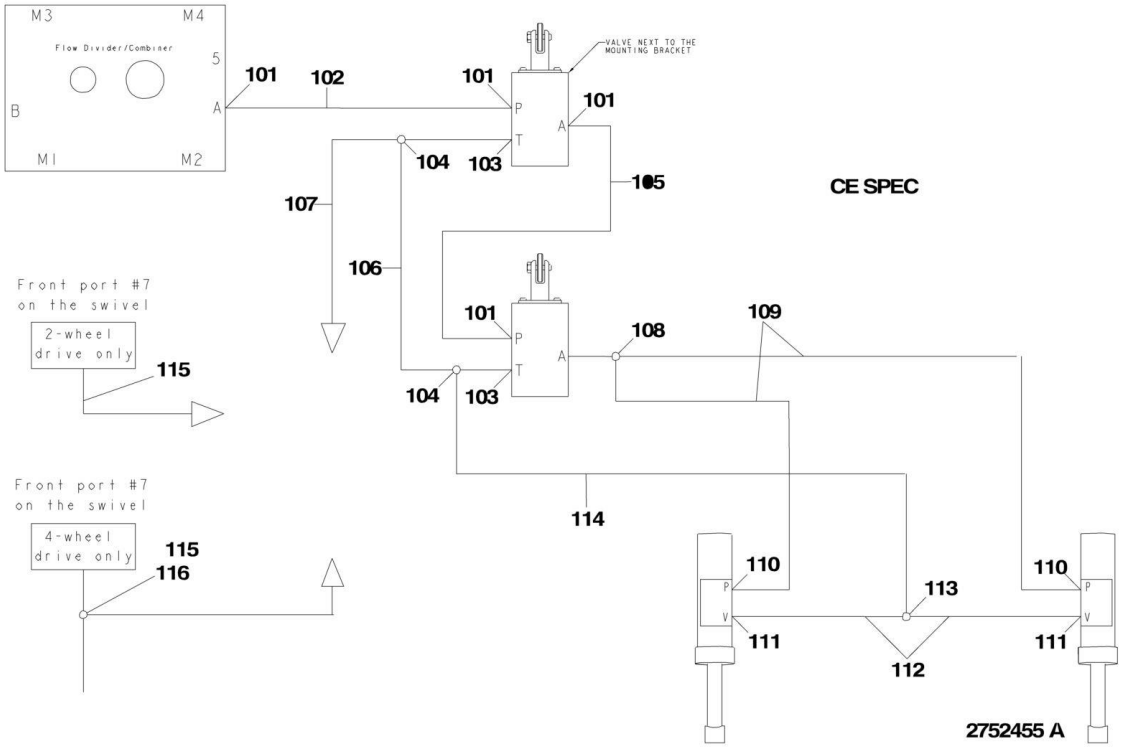


FIGURE 6-1. AXLE LOCKOUT HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792398	Ref	**AXLE LOCKOUT HYDRAULIC DIAGRAM (AUSTRALIAN SPEC)**	2
1	2220375	1	Fitting, Straight	
2	2220385	1	Fitting, Tee	
3	2220415	2	Fitting, Straight	
5	2220501	2	Fitting, Elbow	
6	2221043	1	Fitting, Tee	
7	2220711	1	Fitting, Tee	
8	2221040	2	Fitting, Elbow	
9	2753035	2	Hose	
10	2752632	2	Hose	
11	2753342	1	Hose	
12	2753339	1	Hose	
	2792455	Ref	**AXLE LOCKOUT HYDRAULIC DIAGRAM (CE SPEC)**	2
101	2220415	4	Fitting, Straight	
102	2753339	1	Hose	
103	2220603	2	Fitting	
104	2220635	2	Fitting	
105	2751013	1	Hose	
106	2752471	1	Hose	
107	2753342	1	Hose	
108	2221034	1	Fitting, Tee	
109	2753035	2	Hose	
110	2221040	2	Fitting, Elbow	
111	2220501	2	Fitting, Elbow	
112	2753118	2	Hose	
113	2220490	1	Fitting, Tee	
114	2752469	1	Hose	
115	2220375	1	Fitting	
116	2220385	1	Fitting, Tee	

FIGURE 6-2. DRIVE HYDRAULIC DIAGRAM - 2WD

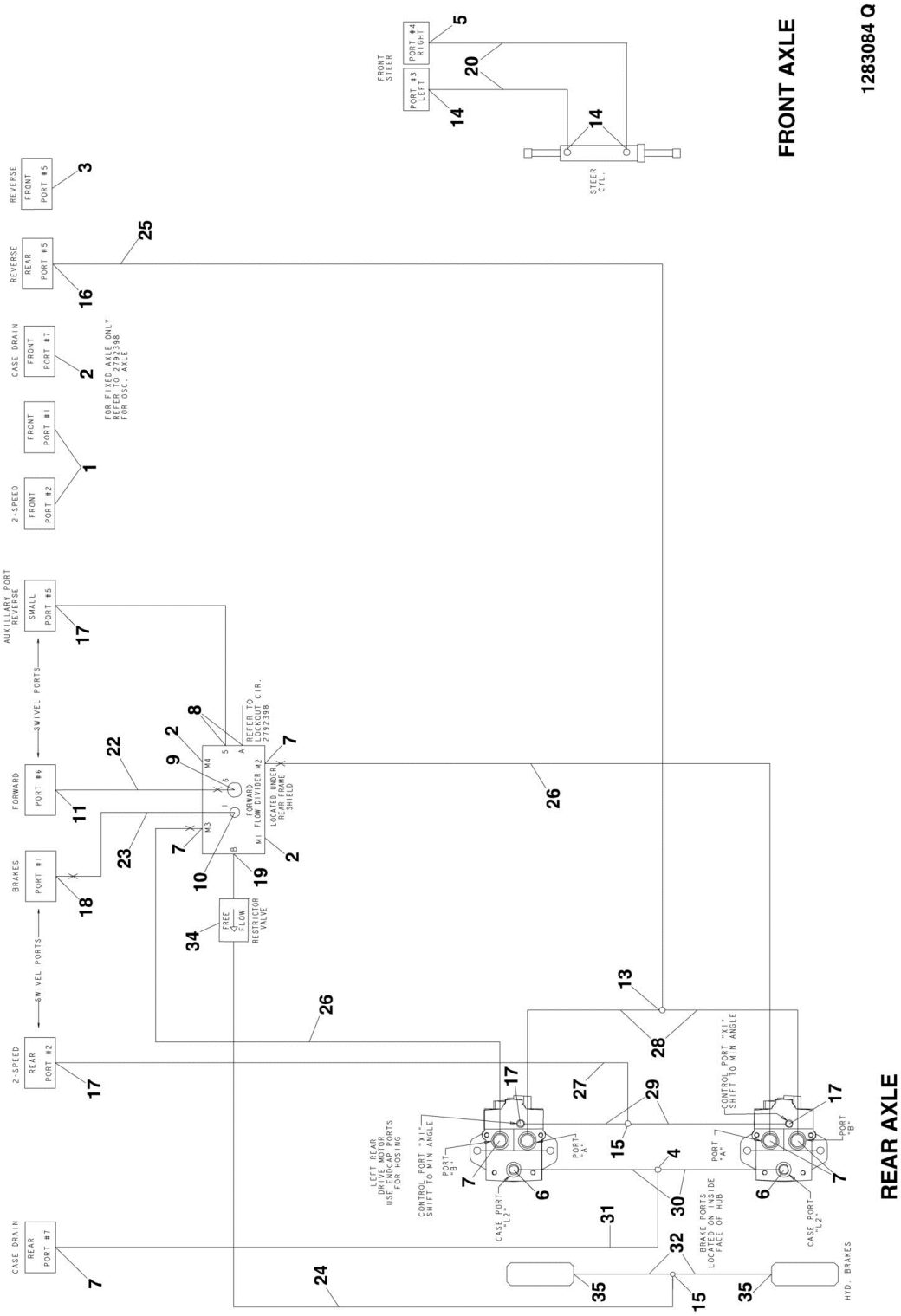


FIGURE 6-2. DRIVE HYDRAULIC DIAGRAM - 2WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792385	Ref	**DRIVE HYDRAULIC DIAGRAM - 2WD**	9/Q
	1283084	Ref	**DRIVE HYDRAULIC DIAGRAM - 2WD**	9/Q
1	2220237	2	Fitting, Plug	
2	2220240	3	Fitting, Plug	
3	2220242	1	Fitting, Plug	
4	2220362	1	Fitting, Tee	
5	2220371	1	Fitting, Straight	
6	2220373	2	Fitting, Straight (Fittings moved to Pump Assembly)	
7	2220375	AR	Fitting, Straight	
7		Ref	Pump Assy without Fittings	
7		Ref	Pump Assy with Fittings	
8	2220415	2	Fitting, Straight	
9	2220435	1	Fitting, Straight	
10	2220596	2	Fitting, Elbow	
11	2220465	1	Fitting, Elbow	
13	2220481	1	Fitting, Tee	
14	2220501	3	Fitting, Elbow	
15	2220504	2	Fitting, Tee	
16	2220568	1	Fitting, Elbow	
17	2220582	AR	Fitting, Straight	
17		Ref	Pump Assy without Fittings	
17		Ref	Pump Assy with Fittings	
18	2220600	1	Fitting, Straight	
19	2221030	1	Fitting, Straight Only **(Prior to SN 0300074316)**	
20	2752466	2	Hose	
22	2753346	1	Hose	
23	2752495	1	Hose	
24	2752442	1	Hose	
25	2753347	1	Hose	
26	2753343	2	Hose	
27	2752977	1	Hose	
28	2753344	2	Hose	
29		Ref	Hose Options:	
29	2753341	2	Hose **(Prior to SN 0300088029)**	
29	2752908	2	Hose **(SN 0300088029 through 0300096000)**	
30		Ref	Hose Options:	
30	2752492	2	Hose **(Prior to SN 0300088029)**	
30	2752496	2	Hose **(SN 0300088029 through 0300096000)**	
31	2752506	1	Hose	
32		Ref	Hose Options:	
32	2753340	2	Hose **(Prior to SN 0300088029)**	
32	2754229	2	Hose **(SN 0300088029 through 0300096000)**	
34		Ref	Valve, Restrictor Options:	
34	4641076	1	Valve, Restrictor (.021) **(Prior to SN 0300074316)**	
34	4641282	1	Valve, Restrictor (.020) **(SN 0300074316 through 0300096000)**	
35	2220466	2	Fitting, Elbow	

FIGURE 6-3. DRIVE HYDRAULIC DIAGRAM - 4WD

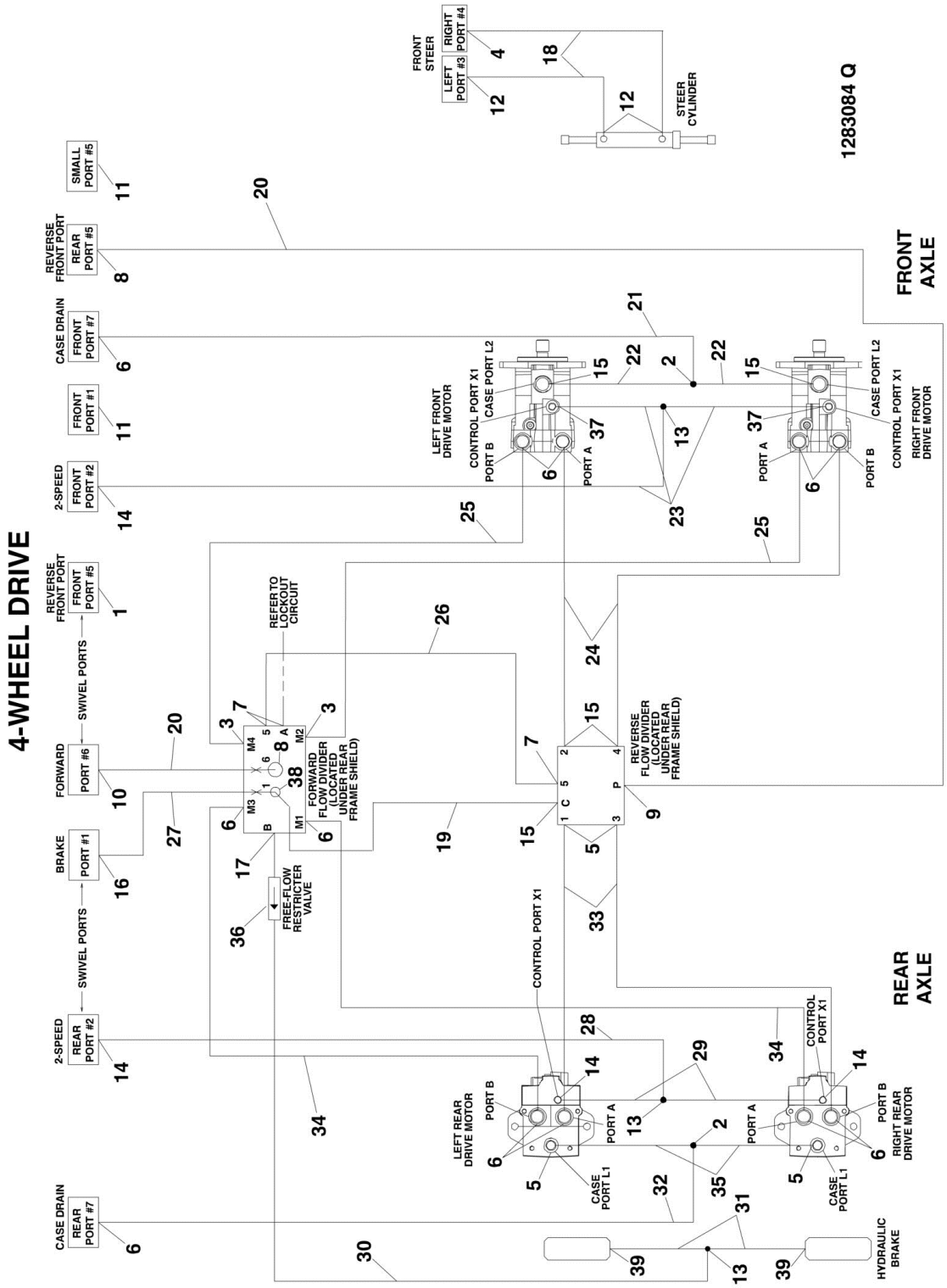


FIGURE 6-3. DRIVE HYDRAULIC DIAGRAM - 4WD

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2792386	Ref	**DRIVE HYDRAULIC DIAGRAM - 4WD**	7/Q
	1283084	Ref	**DRIVE HYDRAULIC DIAGRAM - 4WD**	7/Q
1	2220242	1	Fitting, Plug	
2	2220362	2	Fitting, Tee	
3	2220366	2	Fitting, Elbow	
4	2220371	1	Fitting, Straight	
5	2220373	AR	Fitting, Straight Options:	
5		Ref	Pump Assy without Fittings	
5		Ref	Pump Assy with Fittings	
6	2220375	AR	Fitting, Straight Options:	
6		Ref	Pump Assy without Fittings	
6		Ref	Pump Assy with Fittings	
7	2220415	3	Fitting, Straight	
8	2220435	2	Fitting, Straight	
9	2220578	1	Fitting, Elbow	
10	2220465	1	Fitting, Elbow	
11	2220237	2	Plug	
12	2220501	3	Fitting, Elbow	
13	2220504	3	Fitting, Tee	
14	2220582	AR	Fitting, Straight Options:	
14		Ref	Pump Assy without Fittings	
14		Ref	Pump Assy with Fittings	
15	2220596	AR	Fitting, Elbow Options:	
15		Ref	Pump Assy without Fittings	
15		Ref	Pump Assy with Fittings	
16	2220600	1	Fitting, Straight	
17	2221030	1	Fitting, Straight Only **(Prior to SN 0300074316)**	
18	2752466	2	Hose	
19	2752502	2	Hose	
20	2753346	2	Hose	
21	2752944	1	Hose	
22	2753416	2	Hose	
23	2752594	3	Hose	
24	2753417	2	Hose	
25	2753345	2	Hose	
26	2753035	1	Hose	
27	2752495	1	Hose	
28	2752977	1	Hose	
29		Ref	Hose Options:	
29	2753341	2	Hose **(Prior to SN 0300088029)**	
29	2752908	2	Hose **(SN 0300088029 through 0300096000)**	
30	2752443	1	Hose	
31		Ref	Hose Options:	
31	2753340	2	Hose **(Prior to SN 0300088029)**	
31	2754229	2	Hose **(SN 0300088029 through 0300096000)**	
32	2752506	1	Hose	
33	2753162	2	Hose	
34	2753343	2	Hose	
35		Ref	Hose Options:	
35	2752492	2	Hose **(Prior to SN 0300088029)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
35	2752496	2	Hose **(SN 0300088029 through 0300096000)**	
36		Ref	Valve, Restrictor Options:	
36	4641076	1	Valve, Restrictor (.021) **(Prior to SN 0300074316)**	
36	4641282	1	Valve, Restrictor (.020) **(SN 0300074316 through 0300096000)**	
37	2220472	2	Fitting, Elbow (Fitting moved to Pump Assembly)	
38	2220602	1	Fitting, Tee	
39	2220466	2	Fitting, Elbow	

FIGURE 6-4. STANDARD HYDRAULIC DIAGRAM

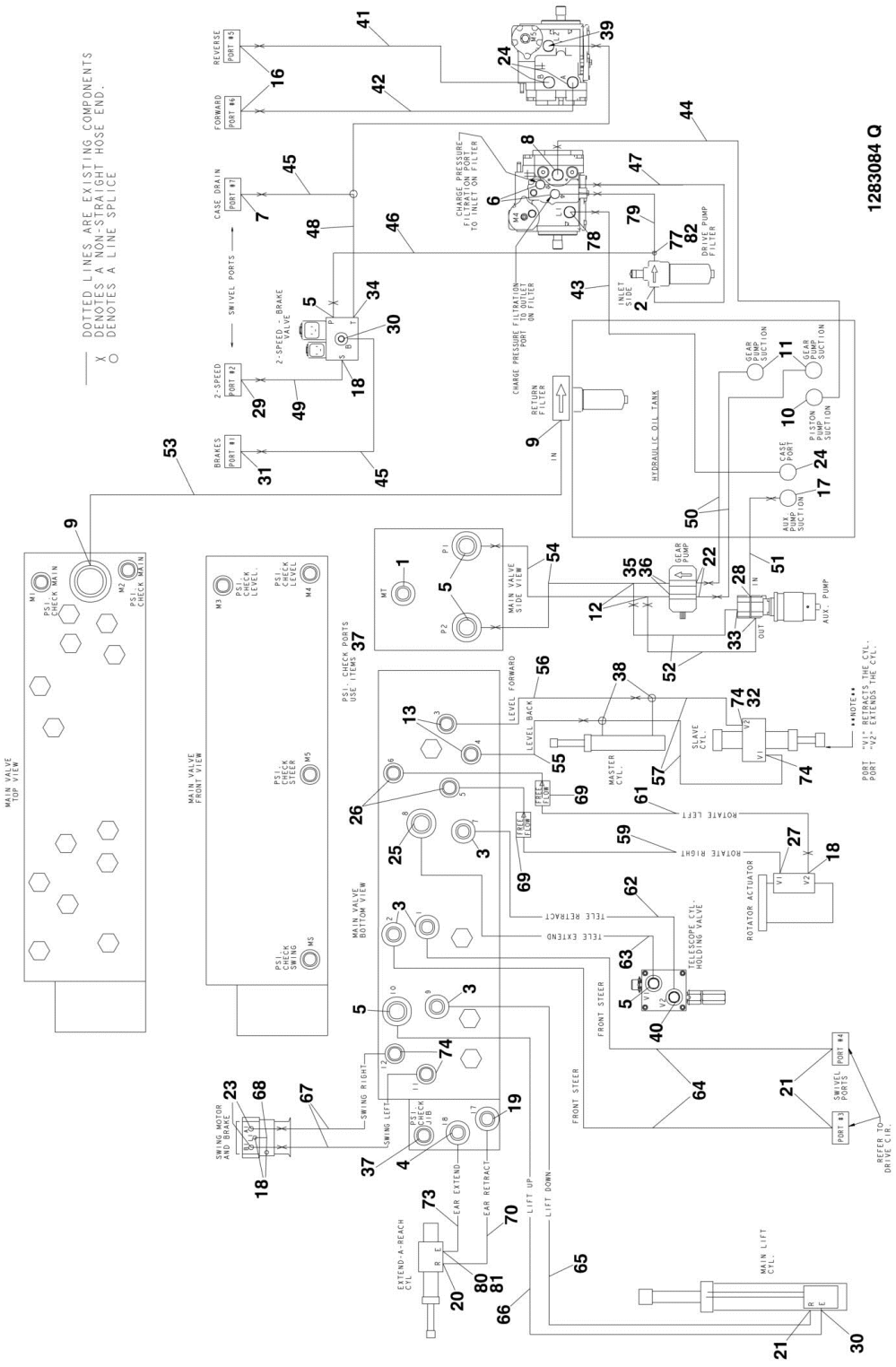


FIGURE 6-4. STANDARD HYDRAULIC DIAGRAM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STANDARD HYDRAULIC DIAGRAM**	
	2792383	Ref	**Standard Hydraulic Diagram 400S (Prior to SN 0300087630)**	12/Q
	1283084	Ref	**Standard Hydraulic Diagram 400S (Prior to SN 0300087630)**	12/Q
	2792704	Ref	**Standard Hydraulic Diagram 400S (SN 0300087630 through 0300096000)**	1/Q
	1283084	Ref	**Standard Hydraulic Diagram 400S (SN 0300087630 through 0300096000)**	1/Q
	2792384	Ref	**Standard Hydraulic Diagram 460SJ (Prior to SN 0300087630)**	12/Q
	1283084	Ref	**Standard Hydraulic Diagram 460SJ (Prior to SN 0300087630)**	12/Q
	2792705	Ref	**Standard Hydraulic Diagram 460SJ (SN 0300087630 through 0300096000)**	1/Q
	1283084	Ref	**Standard Hydraulic Diagram 460SJ (SN 0300087630 through 0300096000)**	1/Q
1	2220237	1	Fitting, Plug	
2		Ref	Fitting, Elbow Options:	
2	2220906	1	Fitting, Elbow **(Prior to SN 0300086916)**	
2	2221042	1	Fitting, Elbow **(SN 0300086916 through 0300096000)**	
3	2220371	4	Fitting, Straight	
4	2220372	1	Fitting, Straight (460SJ Only)	
5	2220373	7	Fitting, Straight	
6	2220947	2	Fitting, Straight (Fitting moved to Pump Assembly)	
7	2220375	1	Fitting, Straight	
8	2220376	1	Fitting, Straight (Fitting moved to Pump Assembly)	
9	2220377	2	Fitting, Straight	
10	2220379	1	Fitting, Straight	
11	2220380	2	Fitting, Straight	
12	2220385	2	Fitting, Tee (Fitting moved to Pump Assembly)	
13	2220415	AR	Fitting, Straight	
14	2220428	1	Fitting, Quick Disconnect **(Prior to SN 0300074935)**	
15	2220429	1	Fitting, Dust Cap **(Prior to SN 0300074935)**	
16	2220435	2	Fitting, Straight	
17	2220451	1	Fitting, Straight	
18	2220466	4	Fitting, Elbow	
19	2220468	1	Fitting, Straight (460SJ Only)	
20	2220472	1	Fitting, Elbow (460SJ Only)	
21	2220473	3	Fitting, Elbow	
22	2220479	2	Fitting, Straight (Fitting moved to Pump Assembly)	
23	2220497	2	Fitting, Straight	
24	2220498	AR	Fitting, Elbow	
24		Ref	Pump Assy without Fittings	
24		Ref	Pump Assy with Fittings	
25	2220500	1	Fitting, Elbow	
26	2221030	2	Fitting, Straight **(Prior to SN 0300074935)**	
27	2220502	AR	Fitting, Elbow	
28	2220567	1	Fitting, Elbow	
29	2220582	1	Fitting, Straight	
30	2220596	2	Fitting, Elbow	
31	2220600	1	Fitting, Straight	
32	4567139	1	Tube	
33	2221045	2	Fitting, Elbow	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
34	2220775	1	Fitting, Elbow	
35	2220810	2	Fitting, Reducer (Fitting moved to Pump Assembly)	
36	4640744	2	Fitting, Check Valve (Fitting moved to Pump Assembly)	
37	2221086	6	Fitting, Pressure Check	
38	2220899	2	Fitting, Tee	
39	2221041	1	Fitting, Tee (Fitting moved to Pump Assembly)	
40	2221044	1	Fitting, Elbow	
41	2753352	1	Hose	
42	2753353	1	Hose	
43	2753354	1	Hose	
44	2753357	1	Hose	
45	2753351	2	Hose	
46	2752942	1	Hose	
47	2752763	1	Hose	
48	2753350	1	Hose	
49	2752430	1	Hose	
50	2753358	2	Hose	
51	2753355	1	Hose	
52	2753349	2	Hose	
53	2753356	1	Hose	
54	2752519	2	Hose	
55	2753360	1	Hose	
56	2753359	1	Hose	
57	2753514	2	Hose	
59		Ref	Hose Options:	
59	2753517	1	Hose 400S	
59	2753512	1	Hose 460SJ	
61		Ref	Hose Options:	
61	2753516	1	Hose 400S	
61	2753513	1	Hose 460SJ	
62	2753368	1	Hose	
63	2753372	1	Hose	
64	2753348	2	Hose	
65	2753369	1	Hose	
66	2753373	1	Hose	
67	2752471	2	Hose	
68	2752443	1	Hose	
69		Ref	Valve, Restrictor Options:	
69	4641076	2	Valve, Restrictor (.021) **(Prior to SN 0300074935)**	
69	4641282	2	Valve, Restrictor (.020) **(SN 0300074935 through 0300096000)**	
70	2753511	1	Hose (460SJ Only)	
73	2753515	1	Hose (460SJ Only)	
74	2220603	4	Fitting, Straight	
75	2752573	1	Hose **(Prior to SN 0300074935)**	
76	2220414	1	Fitting, Straight **(Prior to SN 0300074935)**	
77	2221063	1	Fitting, Tee	
78	2220578	1	Fitting, Straight (Fitting moved to Pump Assembly)	
79	2753502	1	Hose	
80	2180724	1	Fitting, Modified Elbow (460SJ Only)	
81	2180422	1	Fitting, Plug (460SJ Only)	
82	2221216	1	Fitting, Straight **(SN 0300087630 through 0300096000)**	

FIGURE 6-5. HYDRAULIC DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: Information on diagrams not shown is available from JLG Service/Parts Departments.**	
		Ref	**AXLE LOCKOUT HYDRAULIC DIAGRAM**	
	2792398	Ref	Australian Spec	
	2792455	Ref	CE Spec	
		Ref	**Drive Hydraulic Diagrams:**	
	2792385	Ref	2WD Machines without Tow Package	
	1283084	Ref	2WD Machines without Tow Package	
	2792598	Ref	2WD Machines with Tow Package	
	1283084	Ref	2WD Machines with Tow Package	
	2792386	Ref	4WD Machines	
	1283084	Ref	4WD Machines	
		Ref	**Standard Hydraulic Diagrams:**	
	2792383	Ref	Standard Hydraulic Diagram 400S **(Prior to SN 0300087630)**	
	1283084	Ref	Standard Hydraulic Diagram 400S **(Prior to SN 0300087630)**	
	2792704	Ref	Standard Hydraulic Diagram 400S **(SN 0300087630 through 0300096000)**	
	2792384	Ref	Standard Hydraulic Diagram 460SJ **(Prior to SN 0300087630)**	
	1283084	Ref	Standard Hydraulic Diagram 460SJ **(Prior to SN 0300087630)**	
	2792705	Ref	Standard Hydraulic Diagram 460SJ **(SN 0300087630 through 0300096000)**	
	1283084	Ref	Standard Hydraulic Diagram 460SJ **(SN 0300087630 through 0300096000)**	
	2792387	Ref	**Standard Hydraulic Schematic**	
	2792432	Ref	**SkyWelder Hydraulic Diagram (Optional)**	
	2792598	Ref	**Tow Hydraulic Diagram**	
	1283084	Ref	**Tow Hydraulic Diagram**	

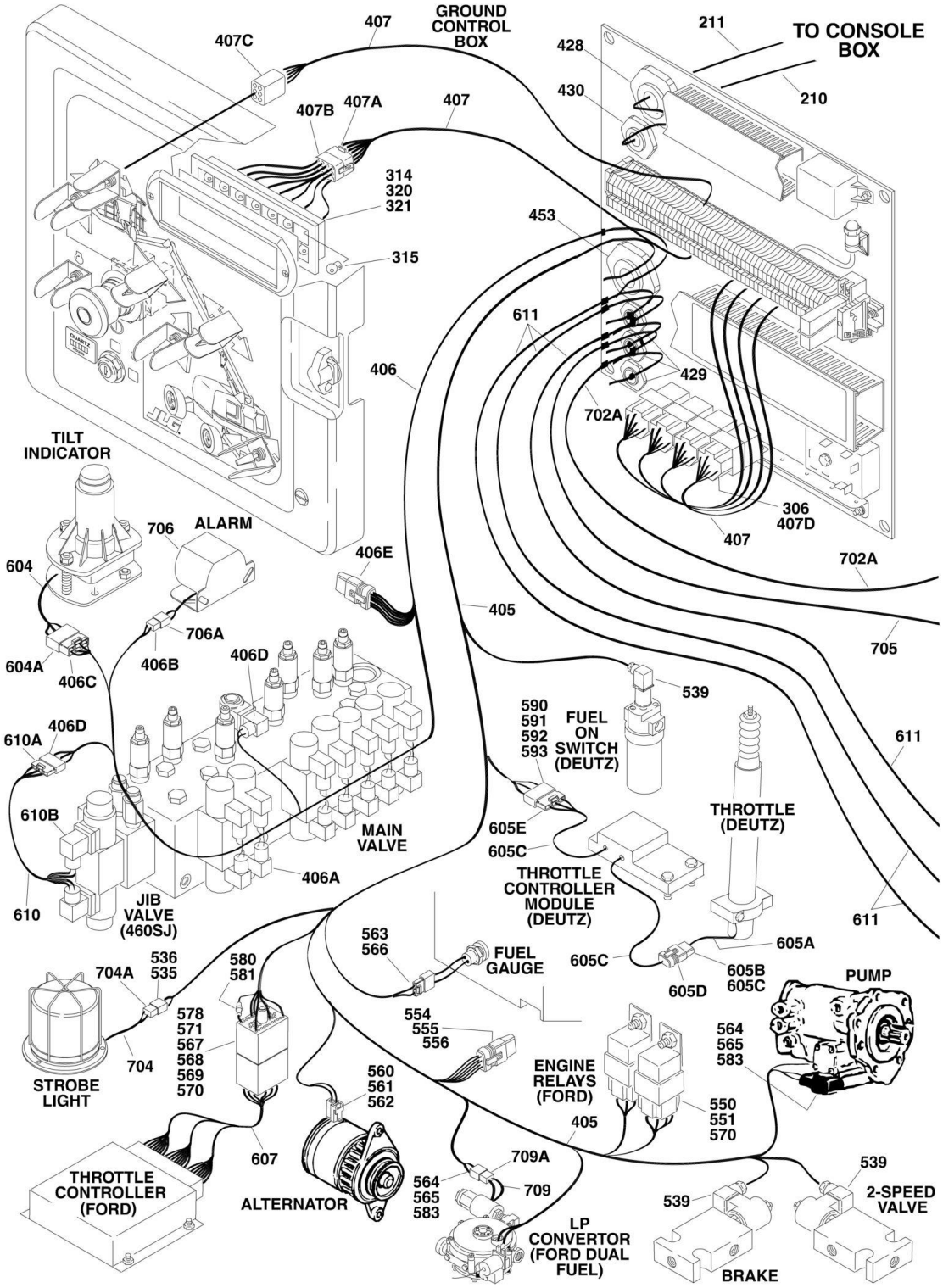
SECTION 7 - ELECTRICAL

FIGURE 7-1. ELECTRICAL DIAGRAM LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**ALARM ELECTRICAL DIAGRAMS**	
	4933025	Ref	**Motion Alarm**	
	1282937	Ref	**Motion Alarm**	
	4933026	Ref	**Travel Alarm**	
	1282937	Ref	**Travel Alarm**	
		Ref	**COLD WEATHER KITS WIRING DIAGRAM**	
	0270646	Ref	**Deutz Engine Machines (Ether)**	
		Ref	**Deutz Engine Machines (Glow Plugs) Options:**	
	0270647	Ref	**Without ADE System**	
	0271333	Ref	**With ADE System (Prior to SN 0300064571)**	
	0271912	Ref	**With ADE System (SN 0300064571 through 0300096000)**	
	2902393	Ref	**DRIVE/STEER CUTOUT WIRING DIAGRAM**	
	4933307	Ref	**DRIVE/STEER CUTOUT WIRING DIAGRAM**	
	0270649	Ref	**ETHER START WIRING DIAGRAM (DEUTZ ENGINE MACHINES)**	
		Ref	**GENERATOR ELECTRICAL DIAGRAMS:**	
		Ref	**(Note: See JLG Supplement p/n 3124242 for SkyPower Miller 7500W Generator)**	
	4933153	Ref	**110Volt (Without ADE System)**	
	4933190	Ref	**110Volt (Without ADE System) (Prior to SN 0300069030)**	
	4933238	Ref	**110Volt (With ADE System) (SN 0300069030 through 0300096000)**	
	4933300	Ref	**110 Volt (With ADE System) (SN 0300077682 through 0300096000)**	
	4933154	Ref	**220 Volt (Without ADE System)**	
	4933191	Ref	**220 Volt (With ADE System) (Prior to SN 0300069030)**	
	4933239	Ref	**220 Volt (With ADE System) (SN 0300069030 through 0300077681)**	
	4933300	Ref	**220 Volt (With ADE System) (SN 0300077682 through 0300096000)**	
		Ref	**GLOW PLUG WIRING DIAGRAM (DEUTZ ENGINE MACHINES) OPTIONS:**	
	4933175	Ref	**Without ADE System**	
	4933189	Ref	**With ADE System (Prior to SN 0300064571)**	
	4933217	Ref	**With ADE System (SN 0300064571 through 0300096000)**	
		Ref	**LIGHTS ELECTRICAL DIAGRAM OPTIONS:**	
	4932917	Ref	**Without ADE System**	
	4933157	Ref	**With ADE System (Prior to SN 0300064509)**	
	4933219	Ref	**With ADE System (SN 0300064509 through 0300096000)**	
	3740049	1	Relay	
		Ref	**PLATFORM ELECTRICAL DIAGRAM OPTIONS:**	
	4922340	Ref	**Australian Spec Without ADE System**	
	4922393	Ref	**CE Spec Without ADE System**	
	4922665	Ref	**All Specs With ADE System**	
		Ref	**PLATFORM OVERLOAD ELECTRICAL DIAGRAM OPTIONS:**	
	0259233	Ref	**Without ADE System**	
	1060079	6 ft/1.8m	Cable, Electrical - 16/4	
	4922304	1	Harness, Wiring (Console)	
	3990010	1	Diode 6 Amp	
	3740057	1	Relay	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0271543	Ref	**With ADE System (Prior to SN 0300064509)**	
	0272169	Ref	**With ADE System (SN 0300064509 through 0300069277)**	
	4933265	Ref	**With ADE System (SN 0300069278 through 0300096000)**	
	4922766	Ref	EIM Load Cell Harness	
	4933313	Ref	**PLATFORM FLOODLIGHTS ELECTRICAL DIAGRAM**	
		Ref	**PLATFORM WORKLIGHTS ELECTRICAL DIAGRAM OPTIONS:**	
	0258309	Ref	**Without ADE System**	
	0270814	Ref	**With ADE System**	
		Ref	**SOFT TOUCH ELECTRICAL DIAGRAM**	
	4932980	Ref	**Without ADE System**	
	4933192	Ref	**With ADE System (Prior to SN 0300064509)**	
	4933237	Ref	**With ADE System (SN 0300064509 through 0300096000)**	
		Ref	**STANDARD ELECTRICAL DIAGRAMS**	
	4933279	Ref	**Caterpillar Engine Machines (Prior to SN 0300087630)**	
	4933335	Ref	**Caterpillar Engine Machines (SN 0300087630 through 0300091229)**	
	4933353	Ref	**Caterpillar Engine Machines (SN 0300091230 through 0300096000)**	
	4933177	Ref	**Deutz Engine Machines (Prior to SN 0300064404)**	
	4933230	Ref	**Deutz Engine Machines (SN 0300064404 through 0300085616)**	
	4933325	Ref	**Deutz Engine Machines (SN 0300085617 through 0300096000)**	
		Ref	**STANDARD ELECTRICAL SCHEMATICS**	
	1870119	Ref	**Deutz (Without ADE System)**	
	1870132	Ref	**Caterpillar/Deutz (With ADE System)**	
	1870191	Ref	**Deutz EMR2/GM**	
	4933027	Ref	**STROBE LIGHT ELECTRICAL DIAGRAM (WITHOUT ADE SYSTEM)**	
		Ref	**SKYWELDER ELECTRICAL DIAGRAM (OPTIONAL)**	
	4933151	Ref	**Without ADE System**	
	4933193	Ref	**With ADE System (Prior to SN 0300064509)**	
	4933240	Ref	**With ADE System (SN 0300064509 through 0300096000)**	

FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (WITHOUT ADE SYSTEM)



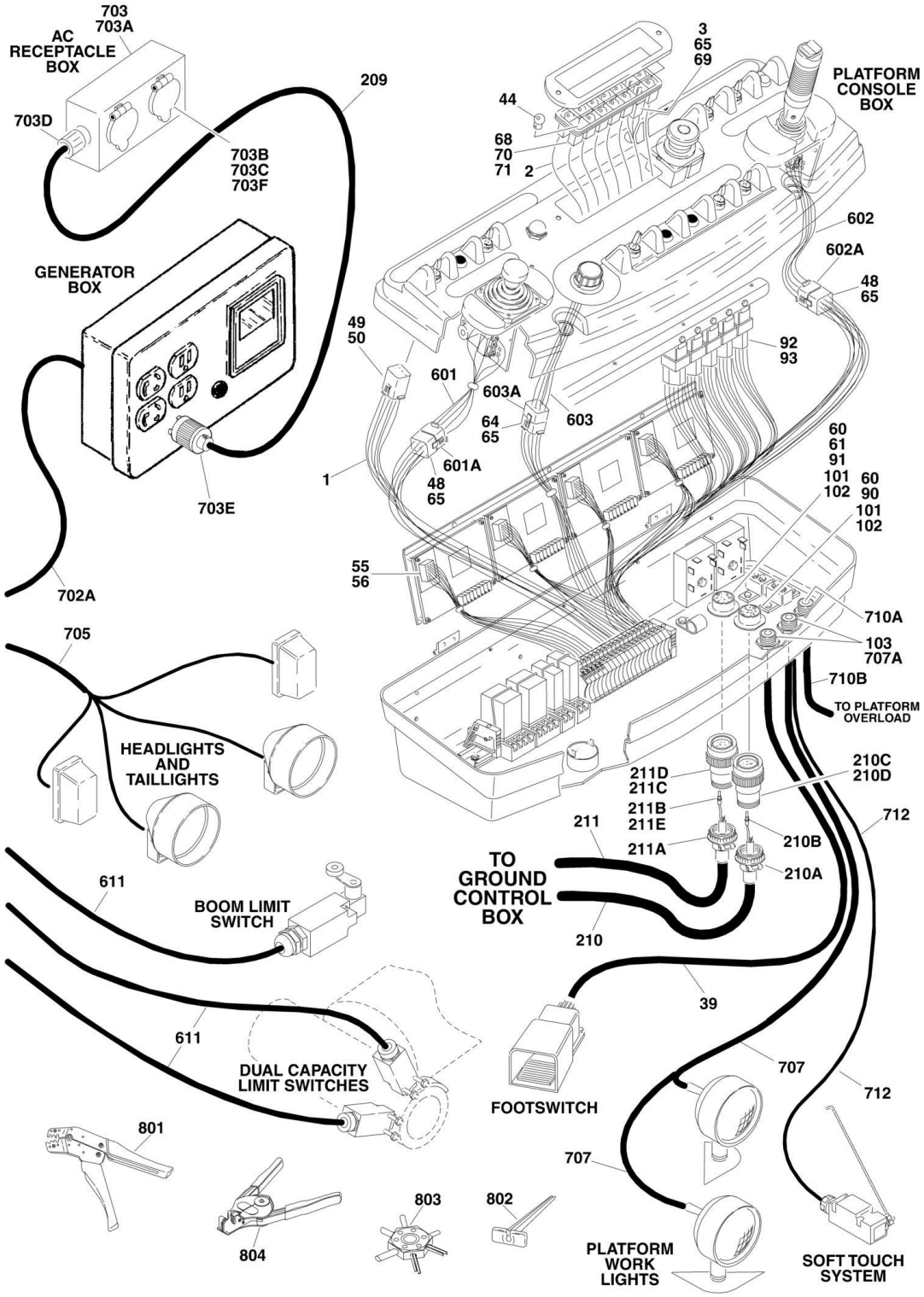

703
703A
AC
RECEPTACLE
BOX
703D
209
703B
703C
703F
GENERATOR
BOX
703E
702A
705
HEADLIGHTS
AND
TAILLIGHTS
611
BOOM LIMIT
SWITCH
611
DUAL CAPACITY
LIMIT SWITCHES
801
804
803
802
3
65
69
PLATFORM
CONSOLE
BOX
44
68
70
71
2
602
602A
48
65
49
50
92
93
601
603A
603
64
65
601A
48
65
1
60
61
91
101
102
60
90
101
102
55
56
710A
103
707A
710B
TO PLATFORM
OVERLOAD
211D
211C
211B
211E
211A
210C
210D
712
211
210B
210A
TO
GROUND
CONTROL
BOX
210
39
FOOTSWITCH
707
712
707
PLATFORM
WORK
LIGHTS
SOFT TOUCH
SYSTEM

FIGURE 7-2. HARNESS COMPONENTS INSTALLATION (WITHOUT ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**HARNESS COMPONENTS INSTALLATION**	
		Ref	**PLATFORM BOX HARNESS ASSEMBLY**	
	4922340	Ref	**Australian Spec**	7/F
	4922393	Ref	**CE Spec**	4/C
1	See Note	AR	Switch Harness (Made up of Individual Wires) (Note: Not Available for Purchase)	
2	See Note	AR	Light Display Harness (Made up of Individual Wires) (Note: Not Available for Purchase)	
3	See Note	AR	Fuel Gauge Harness (Made up of Individual Wires) (Note: Not Available for Purchase)	
39	1060515	7 ft/2.13m	Cable, Electrical - 12/4	
44	2920129	10	Bulb, Light	
48	4460265	2	Connector - 9 Position	
49	4460418	5	Connector - 6 Position	
50	4460419	26	Terminal, Female	
55	4460720	4	Connector - 15 Position	
56	4460721	44	Socket, Female	
60	4460464	31	Pin, Male (16 Gauge)	
61	4460508	4	Pin, Male (12 Gauge)	
62	3990001	23	Diode - 3 Amp (Not Shown)	
64	4460225	1	Connector - 6 Position	
65	4460267	36	Pin, Male	
66	3990010	9	Diode - 6 Amp (Not Shown)	
68	4120035	10	Socket, Light	
69	4460326	1	Connector - 3 Position	
70	4460634	10	Insert, Terminal (Single Wire)	
71	4460635	8	Insert, Terminal (Double Wire)	
90	4460613	1	Connector - 21 Position	
91	4460503	1	Connector - 31 Position	
92	4460741	5	Connector - 5 Position	
93	4460420	22	Terminal	
		Ref	**PLATFORM BOX ASSEMBLY COMPONENTS**	
101	4460470	2	Nut, Conduit	
102	4460471	2	Washer, Conduit	
103	4460428	2	Connector, Strain Relief	
		Ref	**BOOM CABLES INSTALLATION**	
	0259191	Ref	**Boom Cables Installation 400S**	9
	0259192	Ref	**Boom Cables Installation 460SJ**	10
209	1060461	63 ft/19.2m	Cable, Electrical - 12/3	
210		Ref	Cable, Electrical - 16/30 Options:	
210	4922387	1	Cable, Electrical - 16/30 400S	1
210	4922375	1	Cable, Electrical - 16/30 460SJ	1
210	1060516	AR	Cable, Electrical - 16/30	
210	1060516	54 ft/16.5m	Cable, Electrical - 16/30 400S	
210	1060516	60 ft/18.3m	Cable, Electrical - 16/30 460SJ	
210A	4460473	1	Clamp, Cable	
210B	4460465	30	Socket, Female	
210C	4460502	1	Connector, Female - 31 Position	

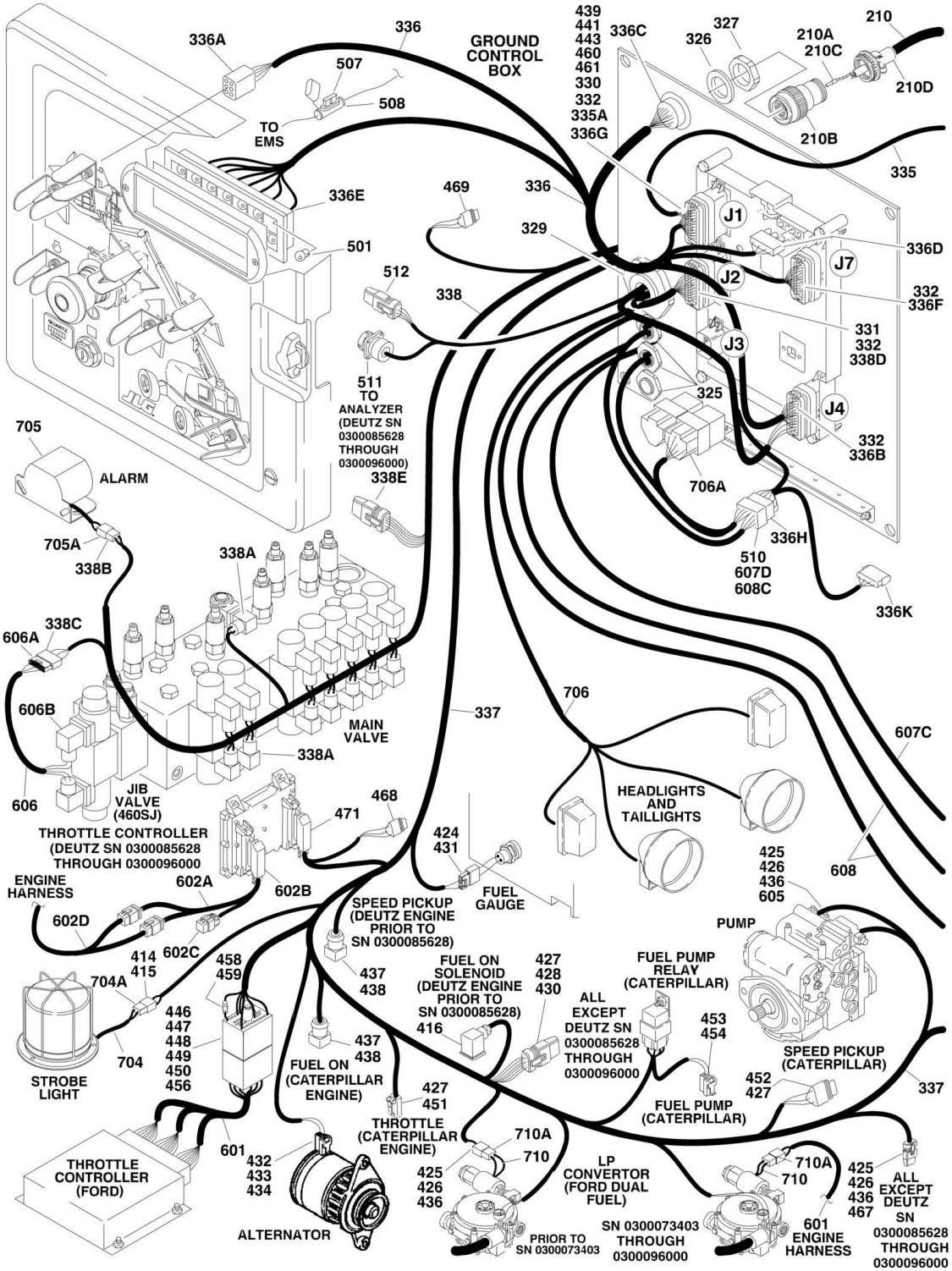
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
210D	4460466	1	Plug, Seal	
211		Ref	Cable, Electrical - 6/4 & 12/4	
211	4922388	AR	Cable, Electrical - 6/4 & 12/4 400S	3/C
211	4922376	AR	Cable, Electrical - 6/4 & 12/4 460SJ	4/C
211	1060602	AR	Cable, Electrical - 16/10 & 12/4 Options: (Does not Include Terminals)	
211	1060602	54 ft/16.5m	Cable, Electrical - 16/10 & 12/4 400S	
211	1060602	60 ft/18.3m	Cable, Electrical - 16/10 & 12/4 460SJ	
211A	4460473	1	Clamp, Cable	
211B	4460465	4	Socket, Female	
211C	4460614	1	Connector, Female - 21 Position	
211D	4460466	13	Plug, Seal	
211E	4460509	4	Socket, Female	
		Ref	**GROUND CONTROL BOX DIAGRAMS**	
	4933127	Ref	**Deutz Engine**	4/D
306	4460420	AR	Connector, Relay	
312	3990010	6	Diode 6 Amp (Not Shown)	
314	4120035	7	Base, Light	
315	2920129	7	Bulb, Light	
319	3730023	1	Resistor 500 Ohm (Not Shown - Located at Alternator Light)	
320	4460634	3	Insert, Terminal (Single Wire)	
321	4460635	AR	Insert, Terminal (Double Wire)	
		Ref	**GROUND CONTROL BOX ASSY COMPONENTS**	
405	4922347	1	Engine Harness Assembly (See Items 501-575 for Breakdown)	
406	4922346	1	Valve Harness Assembly	3/C
406A	4460499	14	DIN Connector with Diode	
406B	4460320	2	Connector - 2 Position	
406B	4460267	2	Pin, Male	
406C	4460225	1	Housing, Terminal - 6 Position	
406C	4460267	4	Pin, Male	
406D	4460445	1	Connector - 3 Position	
406D	4460268	3	Socket, Female	
406E	4460836	2	Connector, Deutsch - 12 Position	
406E	4460837	2	Housing, Terminal Connector	
406E	4460465	20	Socket, Female	
407	4922349	1	Ground Control Box Harness Assembly	5/E
407	3990010	13	Diode 6 Amp (Not Shown)	
407A	4460224	1	Connector - 6 Position	
407A	4460268	6	Socket, Female	
407B	4460225	1	Connector - 6 Position	
407B	4460267	6	Pin, Male	
407C	4460418	9	Connector - 6 Position	
407C	4460419	46	Terminal, Female	
407D	4460268	AR	Socket, Female	
407E	3730099	1	Resistor (Not Shown)	
407F	4460420	6	Plug, Relay	
407F	4460741	13	Terminal, Relay Plug	
428	4460526	1	Connector, Strain Relief	
429	4460428	3	Connector, Strain Relief	
430	4460426	1	Connector, Strain Relief	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
453	4460711	1	Connector, Strain Relief	
	4922347	Ref	**ENGINE HARNESS ASSEMBLY - DEUTZ ENGINE**	6/G
535	4460424	1	Connector - 2 Position	
536	4460268	2	Socket, Female	
539	4460499	AR	DIN Connector with Diode	
550 to 551	Not Required	0	Not Required	
554	4460837	1	Housing, Deutsch	
555	4460836	1	Connector, Deutsch	
556	4460465	12	Terminal	
560 to 562	Not Required	0	Not Required	
563	4460834	1	Connector - 2 Position	
564	4460457	4	Terminal, Female	
565	4460458	4	Seal, Terminal	
566	4460842	2	Terminal, Female	
567 to 578	Not Required	0	Not Required	
580 to 581	Not Required	0	Not Required	
583	4460742	2	Connector - 2 Position	
590	4460591	1	Terminal, Lock	
591	4460589	3	Socket	
592	4460608	3	Seal, Cable	
593	4460777	1	Housing - 4 Position	
		Ref	**STANDARD HARNESS COMPONENTS**	
601	See Note	1	Controller Harness Assembly (Lift and Swing) (Note: Not Available for Purchase)	
601A	4460266	1	Connector - 9 Position	
601A	4460268	7	Socket, Female	
602	See Note	1	Controller Harness/Circuit Board Assembly (Drive and Steer) (Note: Not Available for Purchase)	
602A	4460266	1	Connector - 9 Position	
602A	4460268	7	Socket, Female	
603	See Note	1	Controller Harness - Speed (Note: Not Available for Purchase)	
603A	4460224	1	Connector - 6 Position	
603A	4460268	6	Socket, Female	
604	See Note	1	Tilt Indicator Harness (Note: Not Available for Purchase)	
604A	4460224	1	Connector - 6 Position	
604A	4460268	6	Socket, Female	
605	See Note	1	Throttle Actuator/Controller Harness (Deutz/Isuzu) (Note: Not Available for Purchase)	
605	0060033	NLA	Throttle Actuator and Controller Assembly (Use p/n 2910000)	
605	7008833	1	Mounting Clamp Kit (Not Shown)	
605	7008836	1	Spring, Retract (Not Shown)	
605A	2910000	1	Throttle Actuator and Harness (Note: Not Available for Purchase)	
605A	7016336	1	Boot Kit	
605B	2910000	9	Pin, Male (Note: Not Available for Purchase)	
605B	2910000	1	Connector, Male (Note: Not Available for Purchase)	
605C	2910001	1	Controller and Harness (Purchase p/n 2910000)	
605D	2910000	9	Socket, Female (Note: Not Available for Purchase)	
605D	2910000	1	Connector (Note: Not Available for Purchase)	
605E	2910000	1	Connector - 4 Position (Note: Not Available for Purchase)	
605E	4460693	4	Pin, Male	
605E	4460591	1	Clip	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
605E	4460608	4	Seal, Terminal	
606	Not Required	0	Not Required	
607	Not Required	0	Not Required	
608	Not Required	0	Not Required	
609	Not Required	0	Not Required	
610	4921927	1	Jib Valve Harness (460SJ Only)	
610A	4460326	1	Connector - 3 Position	
610A	4460267	3	Pin, Male	
610B	4460499	2	Connector, DIN with Diode	
611	See Note	AR	Limit Switch Harness (Note: Not Available for Purchase)	
611	1060341	37 ft/11.3m	Cable, Electrical - 16/2	
		Ref	**OPTIONAL HARNESS COMPONENTS**	
702	4932989	Ref	Generator Electrical Components	1/A
702	3990010	1	Diode - 6 Amp (Not Shown)	
702A	4921938	1	Harness - On/Off Switch (Powermite Control Box to Ground Control Box)	
702B	4460125	1	Receptacle, Electrical (220V)	
702C	4460125	1	Receptacle, Electrical (220V)	
703	0270023	Ref	AC to Platform Receptacle Components	1
703A	See Note	1	Box, Switch (Note: Not Available - Purchase Locally)	
703B	See Note	1	Receptacle (Note: Not Available - Purchase Locally)	
703C	See Note	1	Shield, Cover (Note: Not Available - Purchase Locally)	
703D	See Note	1	Connector, Strain Relief (Note: Not Available - Purchase Locally)	
703E	See Note	2	Plug, Male (Note: Not Available - Purchase Locally)	
703F	See Note	1	Gasket (Note: Not Available - Purchase Locally)	
704	See Note	1	Strobe Light Harness (Note: Not Available - Purchase Locally)	-
704A	4460320	1	Connector - 2 Position	
704A	4460267	2	Pin, Male	
705	See Note	1	Lights Harness (Note: Not Available - Purchase Locally)	
705	3740049	1	Relay (Not Shown)	
705	1060341	37 ft/11.3m	Cable, Electrical - 16/2	
706	See Note	1	Alarm Harness (Includes Alarm) (Note: Not Available - Purchase Locally)	
706A	4460424	1	Connector - 2 Position	
706A	4460268	2	Socket, Female	
706A	1060341	37 ft/11.3m	Cable, Electrical - 16/2	
707	See Note	2	Platform Worklights Harness (Note: Not Available - Purchase Locally)	
707	2820035	9 ft/2.8m	Loom, Vinyl	
707A	4460598	1	Connector, Strain Relief	
707A	4460442	2	Terminal (Not Shown-Located in Platform Console)	
709	Not Required	0	Not Required	
710	See Note	1	Platform Overload Harness - External (Note: Not Available - Purchase Locally)	
710A	4460428	1	Connector, Strain Relief	
710B	1060079	6 ft/1.8m	Cable, Electrical - 16/14	
711		Ref	Platform Overload Harness Options: - Internal (Inside Platform Box - Not Shown)	
711	4922433	1	Platform Overload Harness **(Prior to SN 0300058378)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
711	4922403	1	Platform Overload Harness **(SN 0300058378 through 0300096000)**	
711	3990010	1	Diode 6Amp	
712	See Note	1	Soft Touch System Harness (Note: Not Available for Purchase)	
		Ref	**TOOLS**	
	4921850	1	Service Harness (For Setting Deutz Throttle Actuator)	
	4922021	1	Service Harness (For Setting Circuit Cards)	
801	7002821	1	Crimper (For Wire to Pin/Socket Connections)	
802	7002823	1	Extractor (For Removal of Pin/Socket from Connectors)	
803	4460467	1	Extractor, Pin (Blue 16-18 Gauge) (For Removal of Pin/Socket from Connectors)	
803	4460510	1	Extractor, Pin (Yellow 12-14 Gauge) (For Removal of Pin/Socket from Connectors)	
804	7002828	1	Stripper, Wire	

FIGURE 7-3. HARNESS COMPONENTS INSTALLATION (WITH ADE SYSTEM)



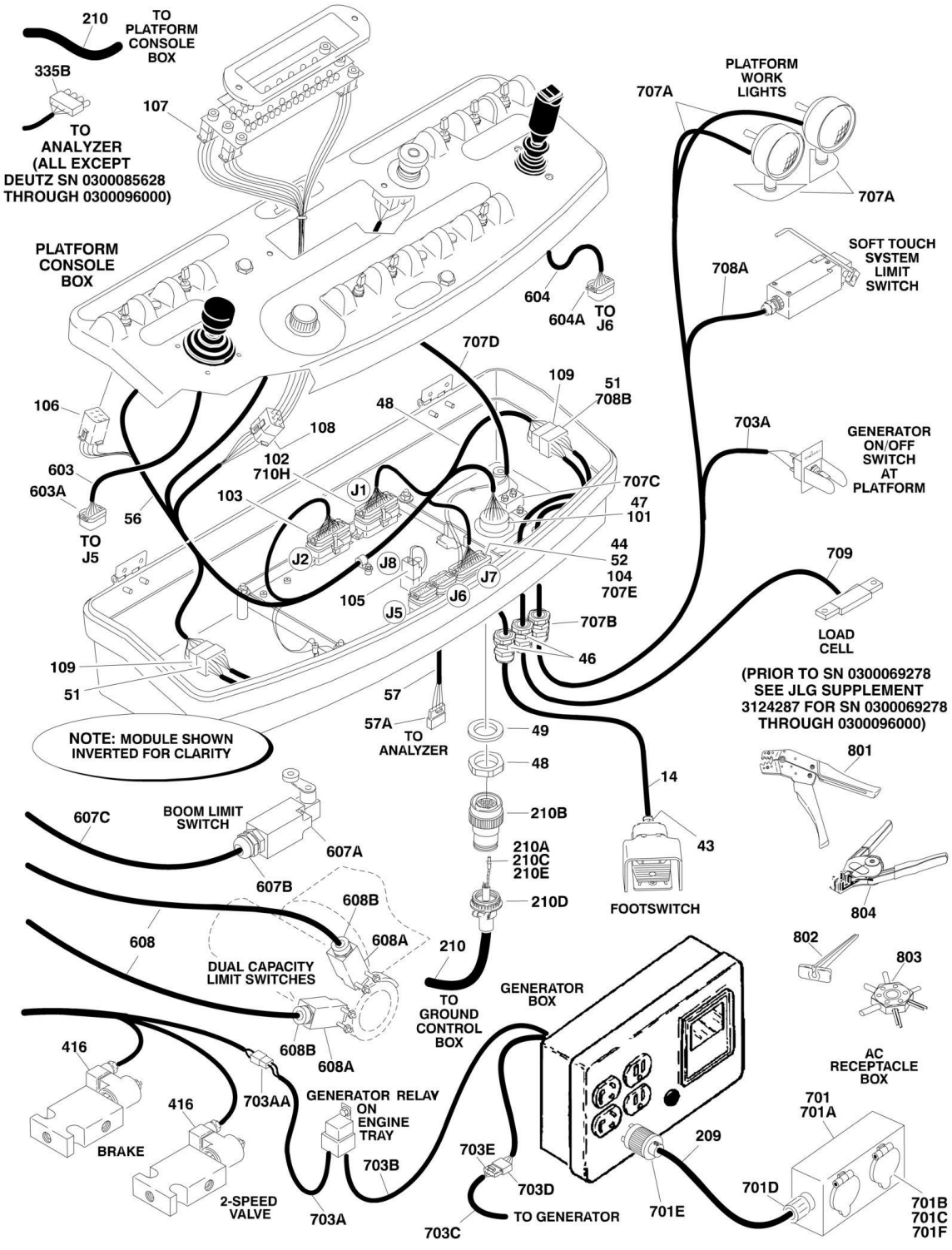

210
TO PLATFORM CONSOLE BOX
335B
TO ANALYZER (ALL EXCEPT DEUTZ SN 0300085628 THROUGH 0300096000)
107
PLATFORM CONSOLE BOX
106
603
603A
TO J5
56
108
102
710H
103
J1
J2
J8
J7
J6
J5
105
109
51
NOTE: MODULE SHOWN INVERTED FOR CLARITY
604
604A
TO J6
707D
109
51
708B
48
707C
47
101
44
52
104
707E
707B
46
57
57A
TO ANALYZER
49
48
210B
210A
210C
210E
210D
607C
BOOM LIMIT SWITCH
607A
607B
608B
608A
608
DUAL CAPACITY LIMIT SWITCHES
210
TO GROUND CONTROL BOX
416
608B
608A
703AA
GENERATOR RELAY ON ENGINE TRAY
BRAKE
416
2-SPEED VALVE
703B
703A
GENERATOR BOX
703E
703D
TO GENERATOR
703C
14
43
FOOTSWITCH
707A
PLATFORM WORK LIGHTS
707A
708A
SOFT TOUCH SYSTEM LIMIT SWITCH
703A
GENERATOR ON/OFF SWITCH AT PLATFORM
709
LOAD CELL
(PRIOR TO SN 0300069278 SEE JLG SUPPLEMENT 3124287 FOR SN 0300069278 THROUGH 0300096000)
801
804
802
803
AC RECEPTACLE BOX
701
701A
209
701E
701D
701B
701C
701F

FIGURE 7-3. HARNESS COMPONENTS INSTALLATION (WITH ADE SYSTEM)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**PLATFORM CONSOLE BOX COMPONENTS**	
4	0100048	AR	Grease, Dialectric (Not Shown)	
14	1060918	7 ft/2.14m	Cable, Electrical - 18/3	
43	4460071	1	Connector, Strain Relief	
44	4460226	2	Socket, Female	
46	4460428	2	Connector, Strain Relief	
47	4460464	1	Pin, Male Deutsch	
48	4460470	1	Nut, Terminal	
49	4460471	1	Lockwasher, Terminal	
51	4460708	2	Connector - 15 Position	
52	4460905	5	Seal, Plug	
56	4922665	1	Harness, Platform Box (See Items 101-109 for Breakdown)	
57	4922666	1	Harness, Analyzer Cable	2/B
57	4460226	4	Socket, Female (Not Shown - Located at J2)	
57A	4460761	1	Connector - 4 Position	
57A	4460227	4	Pin, Male	
	4922665	Ref	**PLATFORM BOX HARNESS ASSEMBLY**	3/C
101	4460866	1	Connector - 19 Pin	
101	4460464	7	Pin, Male Deutsch 16 Ga	
101	4460508	3	Pin, Male Deutsch 12 Ga	
102	4460874	1	Connector - 35 Position (Natural)	
102	4460871	23	Socket, Female	
103	4460875	1	Connector - 35 Position (Gray)	
103	4460871	18	Socket, Female	
104	4460873	1	Connector - 35 Position (Black)	
104	4460871	8	Socket, Female	
105	4460879	1	Connector 2 Position	
105	4460887	2	Terminal (12 Gauge)	
106	4460418	6	Connector - 6 Position	
106	4460419	18	Socket, Female	
107	4460225	2	Plug, Male - 6 Position	
107	4460226	18	Terminal (16 Gauge)	
108	4460225	1	Connector - 6 Position	
108	4460227	16	Pin	
109	4460434	2	Connector - 15 Position	
109	4460227	16	Pin	
		Ref	**BOOM CABLES INSTALLATION**	
	0271162	Ref	**Boom Cables Installation 400S**	8
	0271161	Ref	**Boom Cables Installation 460SJ**	8
	0272612	Ref	**Boom Cables Installation 400S (7500w 60Hz Generator - SKYPOWER)**	4
	0272613	Ref	**Boom Cables Installation 460SJ (7500w 60Hz Generator - SKYPOWER)**	4
209		Ref	Cable, Electrical Options:	
209	1060461	63 ft/19.2m	Cable, Electrical - 12/3 **(Prior to SN 0300068444)**	
209	1060986	1	Cable, Electrical - 12/3 (400S) (57ft/17.4m) **(SN 0300068444 through 0300096000)**	
209	1060984	1	Cable, Electrical - 12/3 (460SJ) (63ft/19.2m) **(SN 0300068444 through 0300096000)**	
209	4922802	1	Harness, Electrical - 8/5 (400S) (With 7500w 60Hz Generator)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
209	4922803	1	Harness, Electrical - 8/5 (460SJ) (With 7500w 60Hz Generator)	
210		Ref	Harness Assembly (12/4 - 18/8)	
210	4922548	1	Harness Assembly (12/4 - 18/8) 400S	3/C
210	4922547	1	Harness Assembly (12/4 - 18/8) 460SJ	3/C
210	1060896	AR	Cable, Electrical - 12/4 & 18/8 Options:	
210	1060896	54 ft/16.5m	Cable, Electrical - 12/4 & 18/8 400S	
210	1060896	60 ft/18.3m	Cable, Electrical - 12/4 & 18/8 460SJ	
210A	4460465	22	Socket, Female 18 Gauge	
210B	4460865	1	Connector Deutsch - 19 Position	
210C	4460509	8	Socket, Female 12 Gauge	
210D	4460473	1	Clamp. Cable	
210E	4460466	4	Seal, Plug	
224	4460865	1	Connector Deutsch - 19 Position	
225	4460473	1	Clamp, Cable	
		Ref	**GROUND CONTROL BOX COMPONENTS**	
325	4460428	3	Connector, Strain Relief	
326	4460470	1	Washer, Terminal	
327	4460471	1	Locknut, Terminal	
329	4460526	1	Connector, Strain Relief	
330	4460874	1	Connector (Natural)	
331	4460875	1	Connector (Gray)	
332	4460905	4	Seal, Plug	
335		Ref	Cable, Analyzer Options:	
335	4922485	1	Cable, Analyzer **(Prior to SN 0300064404)**	3
335	4922666	1	Cable, Analyzer **(SN 0300064404 through 0300085616)**	1
335	Not Required	0	Not Required **(SN 0300085617 through 0300096000)**	
335A		Ref	Socket, Female (Not Shown - Located at J1)	
335A	4460871	4	Socket, Female **(Prior to SN 0300064404)**	
335A	4460226	4	Socket, Female **(SN 0300064404 through 0300085616)**	
335A	Not Required	0	Not Required **(SN 0300085617 through 0300096000)**	
335B	4460761	1	Connector - 4 Position	
335B	4460227	4	Pin, Male	
336		Ref	Ground Control Box Harness Assembly	
336	4922664	1	Caterpillar Engine Machines **(Prior to SN 0300087630)**	6/G
336	4923236	1	Caterpillar Engine Machines **(SN 0300087630 through 0300091229)**	1/B
336	4923456	1	Caterpillar Engine Machines **(SN 0300091230 through 0300096000)**	B
336	4922540	1	Deutz Engine Machines **(Prior to SN 0300064404)**	5/E
336	4922664	1	Deutz Engine Machines **(SN 0300064404 through 0300085616)**	5/F
336	4923261	1	Deutz Engine Machines **(SN 0300085617 through 0300096000)**	C
336	3990010	2	Diode 6 Amp	
336A	4460418	7	Connector - 6 Position	
336A	4460419	21	Socket, Female	
336B	4460876	1	Connector - 35 Position (Blue)	
336B	4460871	24	Socket, Female	
336B	4460905	28	Seal, Plug	
336C	4460866	1	Connector - 19 Pin	
336C	4460464	7	Pin, Male Deutsch 16 Ga	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
336C	4460508	3	Pin, Male (12 Gauge)	
336D	4460878	1	Housing, Terminal - 4 Position	
336D	4460887	3	Terminal (12 Gauge)	
336E	4120035	6	Base, Light	
336E	4460634	7	Terminal (16 Gauge)	
336F	4460873	1	Connector - 35 Position (Black)	
336F	4460871	20	Socket, Female	
336F	4460905	1	Seal, Plug	
336G	4460871	3	Socket, Female	
336H	4460434	1	Connector - 15 Position	
336H	4460227	14	Pin	
336J	4460536	1	Connector - 3 Position (Deutz Engines Only) **(SN 0300085617 through 0300096000)**	
336J	4460943	3	Socket, Female (Deutz Engines Only) **(SN 0300085617 through 0300096000)**	
336K	4460761	1	Connector - 4 Position (Deutz Engines Only/Caterpillar Engines) **(SN 0300085617 through 0300096000, SN 0300087630 through 0300096000)**	
336K	4460227	4	Pin, Male (Deutz Engines Only/Caterpillar Engines) **(SN 0300085617 through 0300096000, SN 0300087630 through 0300096000)**	
337		Ref	Engine Harness Assembly (See Items 401-460 for Breakdown)	
337	4922880	1	Caterpillar Engine Machines **(Prior to SN 0300087630)**	
337	4923234	1	Caterpillar Engine Machines **(SN 0300087630 through 0300096000)**	
337	4922537	1	Deutz Engine Machines **(Prior to SN 0300085617)**	
337	4923260	1	Deutz Engine Machines **(SN 0300085617 through 0300096000)**	
338	4922538	1	Valve Harness Assembly	4/D
338A	4460880	14	DIN Connector	
338B	4460320	2	Connector - 2 Position	
338B	4460267	4	Pin, Male	
338C	4460445	1	Connector - 3 Position	
338C	4460268	3	Socket, Female	
338D	4460871	20	Socket, Female	
338E	4460836	2	Connector, Deutsch - 12 Position	
338E	4460837	2	Housing, Terminal Connector	
338E	4460465	22	Socket, Female	
339		Ref	Ground Control Box Wiring Diagram (Not Shown - See Items 501-512 for Breakdown)	
339	4933279	Ref	Caterpillar Engine Machines **(Prior to SN 0300087630)**	
339	4933335	Ref	Caterpillar Engine Machines **(SN 0300087630 through 0300091229)**	
339	4933353	Ref	Caterpillar Engine Machines **(SN 0300091230 through 0300096000)**	
339	4933177	Ref	Deutz Engine Machines **(Prior to SN 0300064404)**	
339	4933230	Ref	Deutz Engine Machines **(SN 0300064404 through 0300085616)**	
339	4933325	Ref	Deutz Engine Machines **(SN 0300085617 through 0300096000)**	
		Ref	**ENGINE HARNESS ASSEMBLY**	
	4922880	Ref	**Caterpillar Engine (Prior to SN 0300087630)**	5/D
	4923234	Ref	**Caterpillar Engine (SN 0300087630 through 0300091229)**	3/C
	4923356	Ref	**Caterpillar Engine (SN 0300091230 through 0300096000)**	1/A

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922537	Ref	**Deutz Engine (Prior to SN 0300085617)**	7/F
	4923260	Ref	**Deutz Engine (SN 0300085617 through 0300096000)**	D
414	4460424	1	Connector - 2 Position	
415	4460268	2	Socket, Female	
416	4460880	AR	DIN Connector without Diode	
424	4460834	1	Connector - 2 Position	
425	4460457	AR	Terminal, Female	
426	4460458	AR	Seal, Terminal	
427	4460465	AR	Socket, Female	
428	4460836	1	Connector, Deutsch - 12 Position (Deutz Only) **(Prior to SN 0300085617)**	
430	4460837	1	Housing, Terminal Connector (Deutz Only) **(Prior to SN 0300085617)**	
431	4460842	2	Terminal, Female	
432	Not Required	0	Terminal (Ford Engine Only)	
433	Not Required	0	Lock, Terminal (Ford Engine Only)	
434	Not Required	0	Housing - 3 Position (Ford Engine Only)	
436	4460742	AR	Connector - 2 Position	
437	4460890	1	Housing - 2 Position (Deutz and All Caterpillar Engines Only) **(Prior to SN 0300085617)**	
438	4460889	2	Terminal (Deutz and All Caterpillar Engines Only) **(Prior to SN 0300085617)**	
439	4460887	2	Terminal (12 Gauge)	
441	4460464	1	Pin, Male	
443	4460871	14	Socket, Female	
446	Not Required	0	Connector, Housing 42 Position (Ford Engine Only)	
447	Not Required	0	Connector Wedge Lock, Center (Ford Engine Only)	
448	Not Required	0	Connector Wedge Lock, Side (Ford Engine Only)	
449	Not Required	0	Connector, Plug (Ford Engine Only)	
450	Not Required	0	Pin, Male (Ford Engine Only)	
451	4460891	1	Connector - 2 Position	
452	4460539	1	Connector 3 Position (Caterpillar Engine Only)	
453	4460993	2	Terminal, Spade (Caterpillar Engine Only)	
454	4460994	1	Connector 2 Position (Caterpillar Engine Only)	
456	Not Required	0	Pin, Male (Ford Engine Only)	
458	Not Required	0	Fuse (Ford Engine Only)	
459	Not Required	0	Holder, Fuse (Ford Engine Only)	
460		Ref	Socket, Female Options:	
460	Not Required	0	All Machines **(Prior to SN 0300066372)**	
460	4460226	1	Caterpillar Engines **(SN 0300066372 through 0300096000)**	
460	4460226	1	Deutz Engines **(SN 0300066372 through 0300085616)**	
460	4460465	1	Deutz Engines **(SN 0300085617 through 0300096000)**	
461	3990001	1	Diode (Caterpillar Engine Only) **(SN 0300087630 through 0300096000)**	
468	4461070	1	Connector - 3 Position with Resistor (Deutz Only) **(SN 0300085617 through 0300096000)**	
468	4460944	3	Socket, Female (Deutz Only) **(SN 0300085617 through 0300096000)**	
468	4461095	1	Connector - 3 Position (Deutz Only) **(SN 0300085617 through 0300096000)**	
469	4460539	1	Connector - 3 Position (Deutz Only) **(SN 0300085617 through 0300096000)**	
469	4460944	3	Socket, Female (Deutz Only) **(SN 0300085617 through 0300096000)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
470	4922099	AR	Can Buss Cable (Deutz Only) **(SN 0300085617 through 0300096000)**	
471	4461052	1	Connector - 25 Position (Deutz Only) **(SN 0300085617 through 0300096000)**	
471	4461053	1	Cover, Receptacle (Deutz Only) **(SN 0300085617 through 0300096000)**	
471	4461005	5	Terminal (Deutz Only) **(SN 0300085617 through 0300096000)**	
471	4461006	5	Seal (Used with p/n 4461005) (Deutz Only) **(SN 0300085617 through 0300096000)**	
471	4461060	2	Terminal (Deutz Only) **(SN 0300085617 through 0300096000)**	
471	4461054	2	Seal (Used with p/n 4461060) (Deutz Only) **(SN 0300085617 through 0300096000)**	
471	4461008	18	Plug, Hole (Deutz Only) **(SN 0300085617 through 0300096000)**	
		Ref	**GROUND CONTROL BOX WIRING DIAGRAM**	
	4933279	Ref	**Caterpillar Engine Machines (Prior to SN 0300087630)**	3/D
	4933335	Ref	**Caterpillar Engine Machines (SN 0300087630 through 0300091229)**	3/C
	4933353	Ref	**Caterpillar Engine Machines (SN 0300091230 through 0300096000)**	1/A
	4933177	Ref	**Deutz Engine Machines (Prior to SN 0300064404)**	2/C
	4933230	Ref	**Deutz Engine Machines (SN 0300064404 through 0300085616)**	4/F
	4933325	Ref	**Deutz Engine Machines (SN 0300085617 through 0300096000)**	D
501	2920129	AR	Bulb, Light	
507	2400065	1	Fuse, 30Amp	
508	2400066	1	Fuse, Holder	
510	4460708	2	Connector - 15 Position **(SN 0300064404 through 0300096000)**	
510	4460226	AR	Socket, Female	
510	4922637	1	Harness, Jumper (Not Shown)	
510	4922636	1	Harness, Jumper (Not Shown) (Caterpillar Machines Only)	
511	2902443	1	Receptacle Kit (Deutz Only) **(SN 0300085617 through 0300096000)**	
511	4461072		Connector - 12 Position (Deutz Only) **(SN 0300085617 through 0300096000)**	
511	4461074	1	Shell, Receptacle (Deutz Only) **(SN 0300085617 through 0300096000)**	
511	4461071	4	Socket, Female (Gold) (Deutz Only) **(SN 0300085617 through 0300096000)**	
511	4461073	1	Cap, Dust (Deutz Only) **(SN 0300085617 through 0300096000)**	
512	4460894	1	Connector - 6 Position (Deutz Only) **(SN 0300085617 through 0300096000)**	
512	4460892	1	Connector, Terminal (Deutz Only) **(SN 0300085617 through 0300096000)**	
		Ref	**STANDARD HARNESS COMPONENTS**	
601	Not Required	0	Ford Engine Harness (For replacement parts refer to Ford engine dealer) (Ford Engine Machines)	
602		Ref	Deutz Engine Harness Components (For replacement parts refer to Deutz engine dealer) **(SN 0300085617 through 0300096000)**	
602A	7027796	1	Deutz Engine Harness (For replacement parts refer to Deutz engine dealer) **(SN 0300085617 through 0300096000)**	
602B	See Note	1	Connector - 25 Position (Deutz Only) (Note: Not Available for Purchase) **(SN 0300085617 through 0300096000)**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
602C	7027793	1	Plug-In, Connector **(SN 0300085617 through 0300096000)**	
602D	7027794	1	Deutz Engine Harness **(SN 0300085617 through 0300096000)**	
603	See Note	1	Controller Harness Assembly (Lift and Swing) (Note: Not Available for Purchase)	
603A	7022819	1	Connector - 8 Position (Natural)	
603A	4460871	8	Socket, Female	
604	7022824	1	Controller Harness/Circuit Board Assembly (Drive and Steer)	
604A	7022825	1	Connector - 8 Position Black	
604A	4460871	7	Socket, Female	
605	See Note	1	Pump Harness (Note: Not Available for Purchase)	
605	7007497	1	Plug (Pump)	
605	7007498	1	Plug (Valve Harness)	
606	4921927	1	Jib Valve Harness (460SJ Only)	
606A	4460326	1	Connector - 3 Position	
606A	4460267	3	Pin, Male	
606B	4460499	2	Connector, DIN with Diode	
607	See Note	AR	Limit Switch Harness Components (400S Only) (Note: Not Available for Purchase):	
607A		Ref	Switch, Limit Options:	
607A	4360322	NLA	Australian Spec 400S (Use p/n 4360549) **(Prior to SN 0300074316)**	
607A	4360549	1	Australian Spec 400S **(SN 0300074316 through 0300096000)**	
607A	Not Required	0	Australian Spec 460SJ	
607A	4360322	NLA	CE Spec 400S & 460SJ (Use p/n 4360549) **(Prior to SN 0300074316)**	
607A	4360549	1	CE Spec 400S & 460SJ **(SN 0300074316 through 0300096000)**	
607B		Ref	Connector, Strain Relief Options:	
607B	4460428	1	Connector, Strain (Use with p/n 4360322) **(Prior to SN 0300074316)**	
607B	4460968	1	Connector, Strain (Use with p/n 4360549) **(SN 0300074316 through 0300096000)**	
607C	4922769	1	Cable, Electrical - 18/2	
607D	4460226	2	Socket, Female	
608	4922714	2	Capacity/Elevation Cut-out Switch Harnesses	
608	1060902	8.5 ft/2.6m	Cable, Electrical - 18/2	
608A		Ref	Switch, Limit Options:	
608A	4360321	NLA	Switch, Limit (Use p/n 4360548) **(Prior to SN 0300074316)**	
608A	4360548	1	Switch, Limit **(SN 0300074316 through 0300096000)**	
608B		Ref	Connector, Strain Relief Options:	
608B	4460428	1	Connector, Strain Relief (Use with p/n 4360321) **(Prior to SN 0300074316)**	
608B	4460968	1	Connector, Strain Relief (Use with p/n 4360548) **(SN 0300074316 through 0300096000)**	
608C	4460226	2	Socket, Female	
609	4922978	1	Start Assist Solenoid Harness (Deutz Engine Machines Only) (Located between Start Relay and Start Assist Solenoid on Engine) **(SN 0300077682 through 0300085617)**	2/B
610	4923451	1	Glow Plugs Harness (Deutz Engine Machines Only) (Not Shown - Located between Glow Plug Relay and Glow Plugs on Engine) **(SN 0300092802 through 0300096000)**	A
		Ref	**OPTIONAL HARNESS COMPONENTS**	
701	0270023	Ref	AC to Platform Receptacle Components	1

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
701A	See Note	1	Box, Switch (Note: Not Available - Purchase Locally)	
701B	See Note	1	Receptacle (Note: Not Available - Purchase Locally)	
701C	See Note	1	Shield, Cover (Note: Not Available - Purchase Locally)	
701D	See Note	1	Connector, Strain Relief (Note: Not Available - Purchase Locally)	
701E	See Note	2	Plug, Male (Note: Not Available - Purchase Locally)	
701F	See Note	1	Gasket (Note: Not Available - Purchase Locally)	
703		Ref	Generator Electrical Components	
703	4933191	1	220V **(Prior to SN 0300064509)**	2/B
703	4933239	1	220V **(SN 0300064509 through 0300077681)**	1/A
703	4933300	1	220V **(SN 0300077682 through 0300096000)**	2/A
703	3990010	1	Diode - 6 Amp (Not Shown)	
703A		Ref	Harness - On/Off Switch Options:	
703A	4922483	1	Harness - On/Off Switch **(Prior to SN 0300064509)**	
703A	4922641	1	Harness - On/Off Switch **(SN 0300064509 through 0300096000)**	
703AA	Not Required	0	Not Required	
703B		Ref	Powermite Control Box to Relay Options:	
703B	4922482	1	Powermite Control Box to Relay **(Prior to SN 0300077682)**	
703B	4922940	1	Powermite Control Box to Relay **(SN 0300077682 through 0300096000)**	
703C		Ref	Generator to Control Box Harness	
703C	See Note	1	Hardwired (Note: Not Available for Purchase) **(Prior to SN 0300077682)**	
703C	See Note	1	Harness (Note: Not Available for Purchase) **(SN 0300077682 through 0300096000)**	
703D	4460961	1	Connector - 4 Position	
703D	4460705	4	Pin, Male	
703E	4460321	1	Connector - 4 Position	
703E	4460906	4	Socket, Female	
704	0255917	1	Strobe Light Harness (Includes Strobe Light)	
704A	4460320	1	Connector - 2 Position	
704A	4460267	2	Pin, Male	
705	0257887	1	Alarm Harness (Includes Alarm)	
705A	4460424	1	Connector - 2 Position	
705A	4460268	2	Socket, Female	
706	See Note	1	Lights Harness (Note: Not Available for Purchase)	
706	1060341	37 ft/11.3m	Cable, Electrical - 16/2	
706A	3740049	1	Relay	
706A		Ref	Harness, Bag (Located at Ground Control Box) (Not Shown) Options:	
706A	4922484	1	Harness, Bag **(Prior to SN 0300064509)**	
706A	4922643	1	Harness, Bag **(SN 0300064509 through 0300096000)**	
707		Ref	Platform Worklights Components	
707A		Ref	Platform Worklights/Floodlights and Harness Components:	
707A	2920140	2	Platform Worklights External Harness (Includes Light and Wire Only)	
707A	2920157	2	Platform Floodlights External Harness (Includes Lights and Wire Only) (Not Shown)	
707A	4460320	2	Connector - 2 Position	
707A	4460227	4	Pin, Male	
707A	4922764	2	Platform Floodlights Harness (Lights to Switch) (Not Shown)	1/A

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
707A	4460424	2	Connector - 2 Position	
707A	4460226	4	Socket, Female	
707B		Ref	Connector, Strain Relief Options:	
707B	4460598	1	Platform Worklights **(Prior to SN 0300074316)**	
707B	4460426	1	Platform Worklights **(SN 0300074316 through 0300096000)**	
707B	4460425	1	Platform Floodlights	
707C		Ref	Circuit Breaker, 15Amp Options:	
707C	4360232	1	Platform Worklights **(Prior to SN 0300074316)**	
707C	Not Required	0	Platform Worklights **(SN 0300074316 through 0300096000)**	
707C	4360232	1	Platform Floodlights	
707D		Ref	Platform Worklights/Floodlights Console Box to Ground Harness	
707D	4922498	1	All Internal Console Box Harness **(Prior to SN 0300074316)**	
707D	1060983	1	Console Box to Aux Relay 400S **(SN 0300074316 through 0300096000)**	
707D	4922965	1	Console Box to Aux Relay 460SJ **(SN 0300074316 through 0300096000)**	
707D	2400070	1	Fuse 20 AMP (Not Shown - Located Aux Relay Only) **(SN 0300074316 through 0300096000)**	
707D	2400066	1	Fuseholder (Not Shown - Located Aux Relay Only) **(SN 0300074316 through 0300096000)**	
707E	4460871	3	Socket, Female Only **(Prior to SN 0300074316)**	
708	See Note	1	Soft-Touch System Harness (Note: Not Available for Purchase)	
708A	1060902	16 ft/4.9m	Cable, Electrical - 18/2	
708B	4460871	2	Socket, Female	
709	See Note	1	Load Cell Harness (Purchase Load Cell) (Note: Not Available for Purchase) **(Prior to SN 0300069278)**	
710	Not Required	0	Not Required	
		Ref	**TOOLS**	
801	7002821	1	Crimper (For Wire to Pin/Socket Connections)	
802	7002823	1	Extractor (For Removal of Pin/Socket from Connectors)	
803	4460467	1	Extractor, Pin (Blue 16-18 Gauge) (For Removal of Pin/Socket from Connectors)	
803	4460510	1	Extractor, Pin (Yellow 12-14 Gauge) (For Removal of Pin/Socket from Connectors)	
804	7002828	1	Stripper, Wire	
805	2901443	1	Analyzer Kit (Not Shown)	

SECTION 8 - DECALS

SECTION 8 - DECALS

FIGURE 8-1. DECAL INSTALLATION (Prior to SN 0300085617)

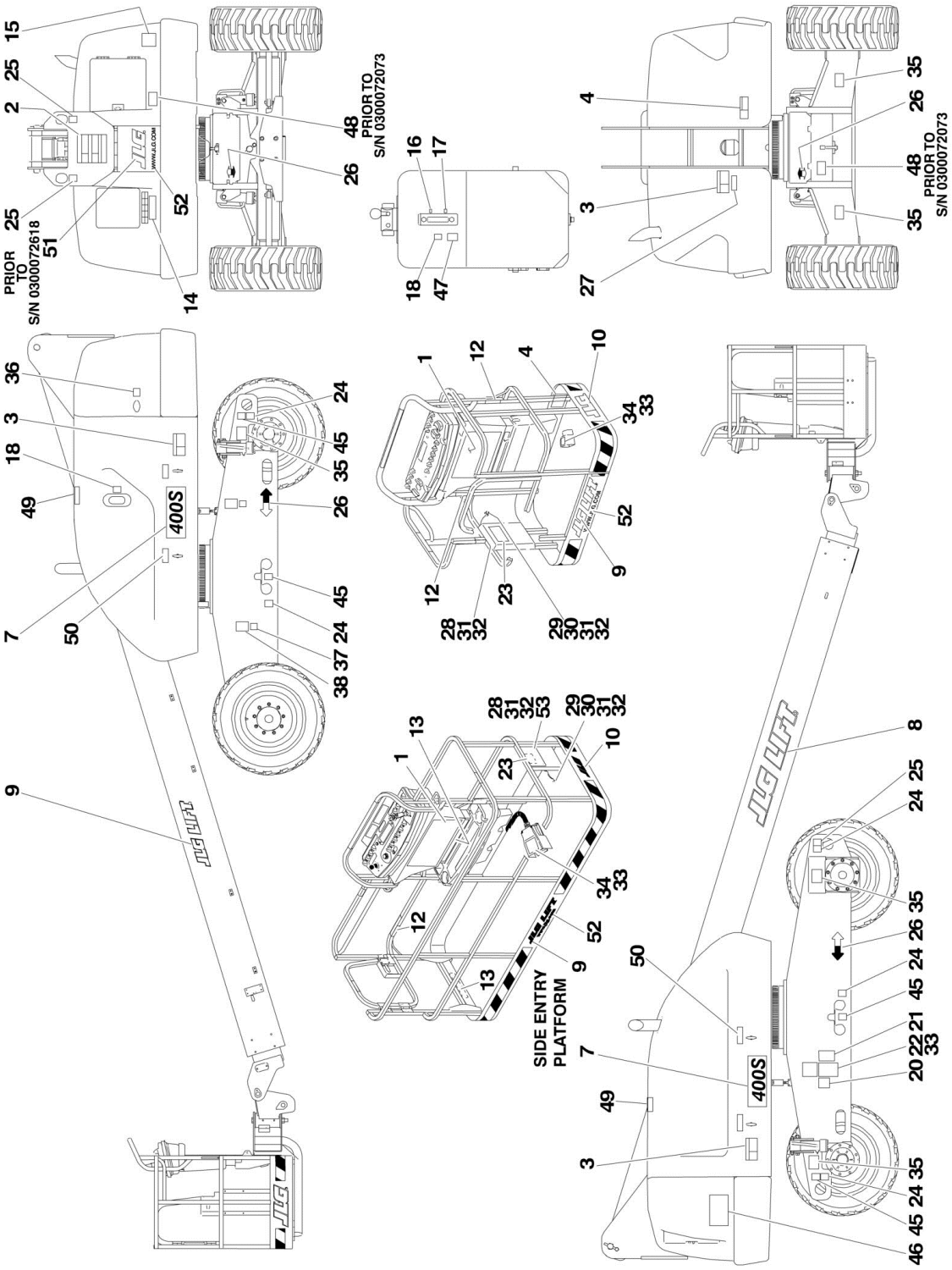


FIGURE 8-1. DECAL INSTALLATION (Prior to SN 0300085617)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STANDARD DECAL INSTALLATIONS**	
	0270398	Ref	**Decals JLG**	4
		Ref	**Standard Decal Installations 400S with 500LB Capacity**	
	0259161	Ref	**Australian Spec**	13
	0259167	Ref	**Dutch Spec**	16
	See Note	Ref	**Finnish Spec (Note: Not Available for Purchase)**	
	0259171	Ref	**French Spec**	15
	0259165	Ref	**German Spec**	15
	0259169	Ref	**Italian Spec**	15
	0273181	Ref	**Norwegian Spec**	5
	0259173	Ref	**Spanish Spec**	15
	0259163	Ref	**UK Spec**	15
		Ref	**Standard Decal Installations 400S with 750LB Capacity**	
	0259982	Ref	**Australian Spec**	11
	0259985	Ref	**Dutch Spec**	11
	See Note	Ref	**Finnish Spec (Note: Not Available for Purchase)**	
	0259987	Ref	**French Spec**	11
	0259984	Ref	**German Spec**	11
	0259986	Ref	**Italian Spec**	11
	0273183	Ref	**Norwegian Spec**	5
	0259988	Ref	**Spanish Spec**	11
	0259983	Ref	**UK Spec**	11
		Ref	**Standard Decal Installations 460SJ**	
	0259162	Ref	**Australian Spec**	12
	0259168	Ref	**Dutch Spec**	15
	0259172	Ref	**French Spec**	14
	0274589	Ref	**Finnish Spec**	1
	0259166	Ref	**German Spec**	13
	0259170	Ref	**Italian Spec**	14
	0273182	Ref	**Norwegian Spec**	4
	0259174	Ref	**Spanish Spec**	14
	0259164	Ref	**UK Spec**	14
1		Ref	Decal - Danger/Warning (Platform) Options:	
1	1703992	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (Australian Spec)	
1	1704809	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (Dutch Spec)	
1	See Note	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (Finnish Spec) (Note: Not Available for Purchase)	
1	1704811	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (French Spec)	
1	1704767	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (German Spec)	
1	1704810	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (Italian Spec)	
1	1705270	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (Norwegian Spec)	
1	1704812	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (Spanish Spec)	
1	1704808	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity (UK Spec)	
1	1704503	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
			(Australian Spec)	
1	1704506	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity (Dutch Spec)	
1	See Note	1	Decal - Danger/Warning (Platform) 400S with 750Lbs Capacity (Finnish Spec) (Note: Not Available for Purchase)	
1	1704508	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity (French Spec)	
1	1704505	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity (German Spec)	
1	1704507	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity (Italian Spec)	
1	1705825	1	Decal - Danger/Warning (Platform) 400S with 750Lbs Capacity (Norwegian Spec)	
1	1704509	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity (Spanish Spec)	
1	1704504	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity (UK Spec)	
1	1703992	1	Decal - Danger/Warning (Platform) 460SJ (Australian Spec)	
1	1704809	1	Decal - Danger/Warning (Platform) 460SJ (Dutch Spec)	
1	1705921	1	Decal - Danger/Warning (Platform) 460SJ (Finnish Spec)	
1	1703917	1	Decal - Danger/Warning (Platform) 460SJ (French Spec)	
1	1703799	1	Decal - Danger/Warning (Platform) 460SJ (German Spec)	
1	1703915	1	Decal - Danger/Warning (Platform) 460SJ (Italian Spec)	
1	1705270	1	Decal - Danger/Warning (Platform) 460SJ (Norwegian Spec)	
1	1703919	1	Decal - Danger/Warning (Platform) 460SJ (Spanish Spec)	
1	1704808	1	Decal - Danger/Warning (Platform) 460SJ (UK Spec)	
2		Ref	Decal - Danger/Warning (Ground Control) Options:	
2	1704819	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (Australian Spec)	
2	1704821	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (Dutch Spec) **(Prior to SN 0300071114)**	
2	1705410	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (Dutch Spec) **(SN 0300071114 through 0300085617)**	
2	See Note	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (Finnish Spec) (Note: Not Available for Purchase)	
2	1704823	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (French Spec)	
2	1704820	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (German Spec)	
2	1704822	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (Italian Spec)	
2	1705272	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (Norwegian Spec)	
2	1704824	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (Spanish Spec)	
2	1704819	1	Decal - Danger/Warning (Ground Control) 400S with 500Lbs Capacity (UK Spec)	
2	1703807	1	Decal - Danger/Warning (Ground Control) 400S with 750LB Capacity (Australian Spec)	
2	1703914	1	Decal - Danger/Warning (Ground Control) 400S with 750LB Capacity (Dutch Spec)	
2	See Note	1	Decal - Danger/Warning (Ground Control) 400S with 750Lbs Capacity (Finnish Spec) (Note: Not Available for Purchase)	
2	1703918	1	Decal - Danger/Warning (Ground Control) 400S with 750LB Capacity (French Spec)	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	1703800	1	Decal - Danger/Warning (Ground Control) 400S with 750LB Capacity (German Spec)	
2	1703916	1	Decal - Danger/Warning (Ground Control) 400S with 750LB Capacity (Italian Spec)	
2	1705255	1	Decal - Danger/Warning (Ground Control) 400S with 750Lbs Capacity (Norwegian Spec)	
2	1703920	1	Decal - Danger/Warning (Ground Control) 400S with 750LB Capacity (Spanish Spec)	
2	1703807	1	Decal - Danger/Warning (Ground Control) 400S with 750LB Capacity (UK Spec)	
2	1703807	1	Decal - Danger/Warning (Ground Control) 460SJ (Australian Spec)	
2	1704821	1	Decal - Danger/Warning (Ground Control) 460SJ (Dutch Spec) **(Prior to SN 0300071114)**	
2	1705410	1	Decal - Danger/Warning (Ground Control) 460SJ (Dutch Spec) **(SN 0300071114 through 0300085617)**	
2	1705822	1	Decal - Danger/Warning (Ground Control) 460SJ (Finnish Spec)	
2	1704823	1	Decal - Danger/Warning (Ground Control) 460SJ (French Spec)	
2	1704820	1	Decal - Danger/Warning (Ground Control) 460SJ (German Spec)	
2	1704822	1	Decal - Danger/Warning (Ground Control) 460SJ (Italian Spec)	
2	1705272	1	Decal - Danger/Warning (Ground Control) 460SJ (Norwegian Spec)	
2	1704824	1	Decal - Danger/Warning (Ground Control) 460SJ (Spanish Spec)	
2	1704819	1	Decal - Danger/Warning (Ground Control) 460SJ (UK Spec)	
3		Ref	Decal - Electrocution	
3	1705961	3	Finnish Spec	
3	Not Required	0	All Other Specs	
4	1701518	3	Decal - Warning Crushing	
7		Ref	Decal - Model Designation Options:	
7	1704472	2	Decal - Model Designation Model 400S	
7	1704473	2	Decal - Model Designation Model 460SJ	
8	1702861	AR	Decal - JLG Lift (8in)	
8		Ref	Decal - JLG Lift (8in) **(Prior to SN 0300069278)**	
8		Ref	Decal - JLG Lift (8in) **(SN 0300069278 through 0300085617)**	
9	1702774	AR	Decal - JLG Lift (3.5in)	
9		Ref	Decal - JLG Lift (3.5in) **(Prior to SN 0300069278)**	
9		Ref	Decal - JLG Lift (3.5in) **(SN 0300069278 through 0300085617)**	
10	1702773	AR	Decal - JLG (5in)	
10		Ref	Front Entry Platform	
10		Ref	Side Entry Platform	
12		Ref	Decal - Attach Lanyard Here	
12	1704277	3	Australian/Finnish/Norwegian Spec	
12	Not Required	0	Dutch/ French/ German/ Italian/ Spanish/ UK Spec **(Prior to SN 0300062886)**	
12	1704277	3	Dutch/ French/ German/ Italian/ Spanish/ UK Spec **(SN 0300062886 through 0300085617)**	
13		Ref	Decal - 230kg Capacity	
13	1705978	2	Finnish Spec	
13	Not Required	0	All Other Specs	
14		Ref	Decal - 230kg Capacity	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
14	1705978	1	Finnish Spec	
14	Not Required	0	All Other Specs	
15		Ref	Decal - CE	
15	Not Required	0	Australian Spec	
15	1702928	NLA	All Other Specs (Use p/n 1705084)	
16	1701502	1	Decal - High Oil Level	
17	1701503	1	Decal - Low Oil Level	
18	1701504	2	Decal - Hydraulic Oil	
20	See Note	1	Decal - Bar Code (Note: Not Aailable for Purchase)	
21	1700584	1	Decal - Patent	
22	See Note	1	Nameplate - Serial Number (Note: Not Available for Purchase)	
23	1701509	1	Decal - Manual	
24	1702300	6	Decal - Tie Down	
25	1701500	4	Decal - Lift	
26	1701529	4	Decal - Arrow	
27		Ref	Nameplate - 240V-50Hz	
27	3251242	1	Australian Spec	
27	Not Required	0	All Other Specs	
28	0860520	1	Box, Manual Storage	
29	1060279	1	Cable, Lanyard	
30	0641408	1	Bolt 1/4in-20NC x 1in	
31	4751400	6	Flatwasher 1/4in	
32	3311405	1	Locknut 1/4in-20NC	
33	3820001	AR	Rivet	
34		Ref	Decal - Footswitch	
34	3252347	1	Australian Spec	
34	1403518	1	Dutch Spec	
34	1705828	1	Finnish Spec	
34	1693292	1	French Spec	
34	1693294	1	German Spec	
34	1701600	1	Italian Spec	
34	1705275	1	Norwegian Spec	
34	1701791	1	Spanish Spec	
34	3252347	1	UK Spec	
35		Ref	Decal - Maximum Tire Load Options:	
35	1704827	NLA	Decal - Maximum Tire Load 400S with 500LB Capacity (Use p/n 1706126)	
35	1704829	4	Decal - Maximum Tire Load 400S with 750LB Capacity	
35	1704828	4	Decal - Maximum Tire Load 460SJ	
36	1701505	1	Decal - Fuel	
45	1701499	4	Decal - No Lift	
46		Ref	Decal - Lift Diagram Options:	
46	3252672	1	Australian Spec	
46	3252676	1	Dutch Spec	
46	1705276	1	Finnish Spec	
46	3252678	1	French Spec	
46	3252675	1	German Spec	
46	3252677	1	Italian Spec	
46	1705276	1	Norwegian Spec	
46	3252679	1	Spanish Spec	
46	3252672	1	UK Spec	
47	1704412	1	Decal - Hydraulic Oil Chart	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	1704540	AR	Decal - Storage Capacity Only **(Prior to SN 0300072073)**	
49	1701691	4	Decal - No Step	
50	1704726	4	Decal - Lock Latch	
51	1704825	1	Decal - JLG Only **(Prior to SN 0300072618)**	
52	1704885	2	Decal - WWW.JLG.COM	
53	0641406	4	Bolt 1/4in-20NC x 3/4in	

FIGURE 8-2. DECAL INSTALLATION (SN 0300085617 through 0300095670)

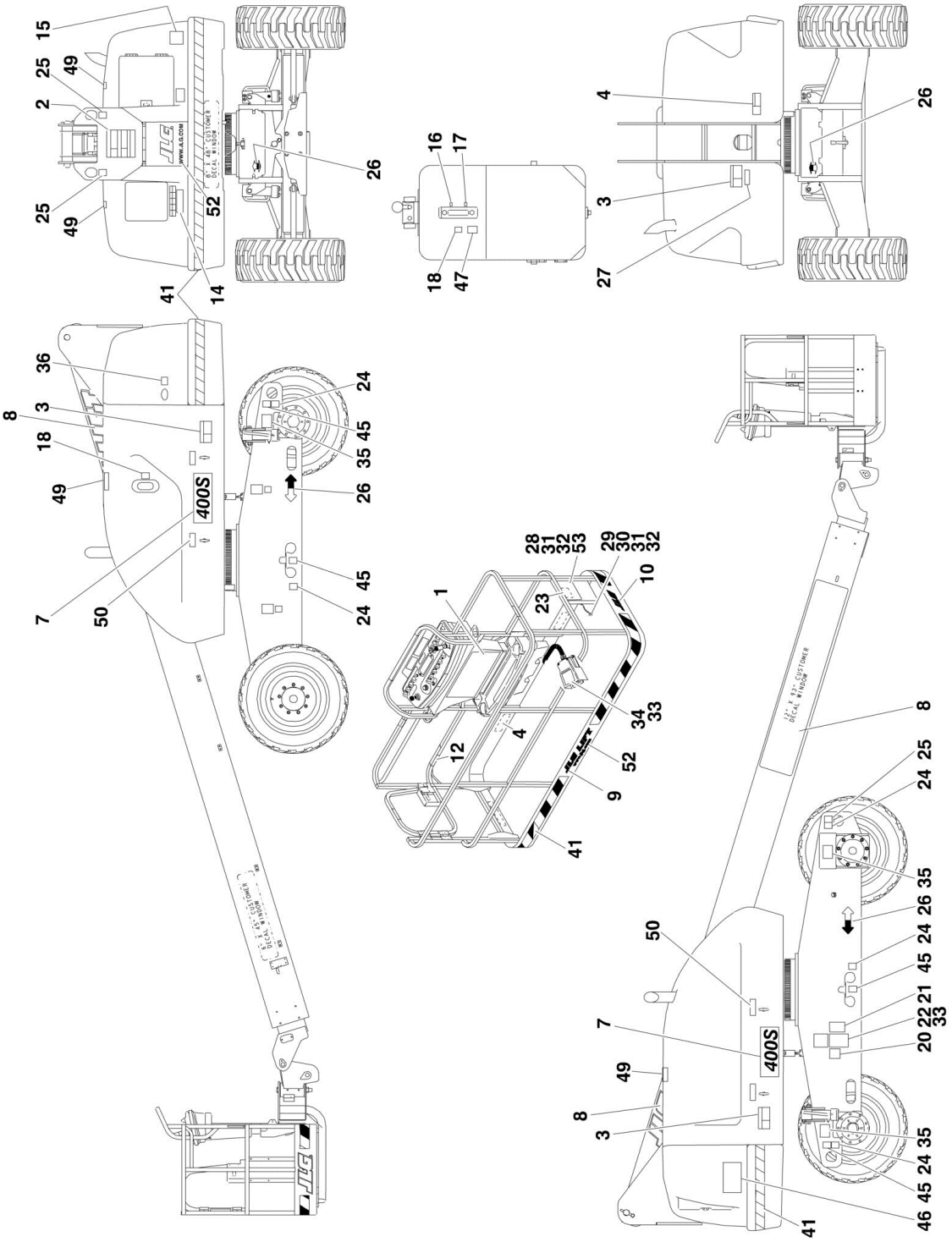


FIGURE 8-2. DECAL INSTALLATION (SN 0300085617 through 0300095670)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STANDARD DECAL INSTALLATIONS**	
	0270398	Ref	**Decals JLG**	4
		Ref	**Standard Decal Installations 400S with 500LB Capacity**	
	0259161	Ref	**Australian and CE Spec**	13
		Ref	**Standard Decal Installations 400S with 750LB Capacity**	
	0259982	Ref	**Australian and CE Spec**	10
		Ref	**Standard Decal Installations 460SJ**	
	0259162	Ref	**Australian and CE Spec**	12
1		Ref	Decal - Danger/Warning (Platform) Options:	
1	1703992	1	Decal - Danger/Warning (Platform) 400S with 500Lbs Capacity	
1	1704503	1	Decal - Danger/Warning (Platform) 400S with 750LB Capacity (Australian Spec)	
1	1703992	1	Decal - Danger/Warning (Platform) 460SJ	
2	1704819	1	Decal - Danger/Warning (Ground Control)	
4	1701518	3	Decal - Warning Crushing	
7		Ref	Decal - Model Designation Options:	
7	1704472	2	Decal - Model Designation Model 400S	
7	1704473	2	Decal - Model Designation Model 460SJ	
8	1702861	2	Decal - JLG Lift (8in)	
9	1702774	1	Decal - JLG Lift (3.5in)	
10	1702773	1	Decal - JLG (5in)	
12	1704277	3	Decal - Attach Lanyard Here	
16	1701502	1	Decal - High Oil Level	
17	1701503	1	Decal - Low Oil Level	
18	1701504	2	Decal - Hydraulic Oil	
20	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
21	1700584	1	Decal - Patent	
22	See Note	1	Nameplate - Serial Number (Note: Not Available for Purchase)	
23	1701509	1	Decal - Manual	
24	1702300	6	Decal - Tie Down	
25	1701500	4	Decal - Lift	
26	1701529	4	Decal - Arrow	
27	3251242	1	Nameplate - 240V-50Hz	
28	0860520	1	Box, Manual Storage	
29	1060279	1	Cable, Lanyard	
30	0641408	1	Bolt 1/4in-20NC x 1in	
31	4751400	6	Flatwasher 1/4in	
32	3311405	5	Locknut 1/4in-20NC	
33	3820001	4	Rivet	
35		Ref	Decal - Maximum Tire Load Options:	
35	1706126	4	Decal - Maximum Tire Load 400S with 500LB Capacity	
35	1704829	4	Decal - Maximum Tire Load 400S with 750LB Capacity	
35	1704828	4	Decal - Maximum Tire Load 460SJ	
36	1701505	1	Decal - Fuel	
45	1701499	4	Decal - No Lift	
46	3252672	1	Decal - Lift Diagram	
47	1704412	1	Decal - Hydraulic Oil Chart	
49	1701691	4	Decal - No Step	
50	1704726	4	Decal - Lock Latch	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
52	1704885	2	Decal - WWW.JLG.COM	
53	0641406	4	Bolt 1/4in-20NC x 3/4in	

FIGURE 8-3. DECAL INSTALLATION (SN 0300095671 through 0300096000)

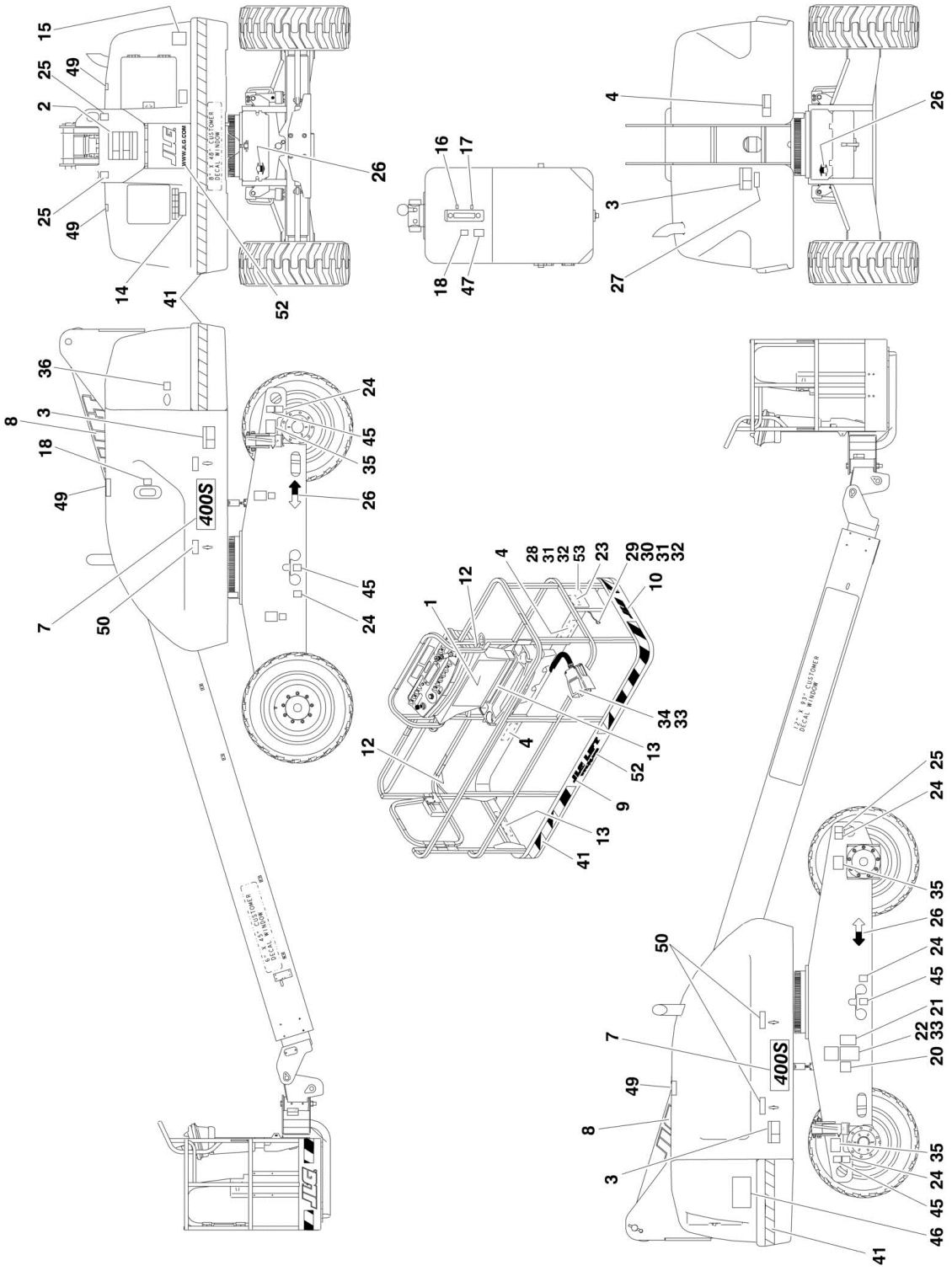


FIGURE 8-3. DECAL INSTALLATION (SN 0300095671 through 0300096000)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**STANDARD DECAL INSTALLATIONS**	
	0270398	Ref	**JLG Decals**	4
	0275066	Ref	**Standard Decal Installations 400S with 500LB Capacity**	1
	0275067	Ref	**Standard Decal Installations 400S with 750LB Capacity**	1
	0275068	Ref	**Standard Decal Installations 460SJ**	1
1	1705921	1	Decal - Tipping/Electrocution (Platform) Options:	
2	1705822	1	Decal - Electrocution/Safety Manual	
3	1705961	3	Decal - Electrocution	
4	1701518	3	Decal - Warning Crushing	
7		Ref	Decal - Model Designation Options:	
7	1704472	2	Decal - Model Designation Model 400S	
7	1704473	2	Decal - Model Designation Model 460SJ	
8	1702861	2	Decal - JLG Lift (8in)	
9	1702774	1	Decal - JLG Lift (3.5in)	
10	1702773	1	Decal - JLG (5in)	
12	1704277	3	Decal - Attach Lanyard Here	
13		Ref	Decal - Capacity Options:	
13	1705978	2	Decal - Capacity 400S with 230kg Capacity	
13	1706382	2	Decal - Capacity 400S with 340kg Capacity	
13	1705978	2	Decal - Capacity 460SJ	
14		Ref	Decal - Capacity Options:	
14	1705978	1	Decal - Capacity 400S with 230kg Capacity	
14	1706382	1	Decal - Capacity 400S with 340kg Capacity	
14	1705978	1	Decal - Capacity 460SJ	
15	1705084	1	Decal - Sound Power Level	
16	1701502	1	Decal - High Oil Level	
17	1701503	1	Decal - Low Oil Level	
18	1701504	2	Decal - Hydraulic Oil	
20	See Note	1	Decal - Bar Code (Note: Not Available for Purchase)	
21	1700584	1	Decal - Patent	
22	See Note	1	Nameplate - Serial Number (Note: Not Available for Purchase)	
23	1701509	1	Decal - Manual	
24	1702300	6	Decal - Tie Down	
25	1701500	4	Decal - Lift	
26	1701529	4	Decal - Arrow	
27	3251242	1	Nameplate - 240V-50Hz	
28	0860520	1	Box, Manual Storage	
29	1060279	1	Cable, Lanyard	
30	0641408	1	Bolt 1/4in-20NC x 1in	
31	4751400	6	Flatwasher 1/4in	
32	3311405	5	Locknut 1/4in-20NC	
33	3820001	4	Rivet	
34	1705828	1	Decal - Footswitch	
35		Ref	Decal - Maximum Tire Load Options:	
35	1706126	4	Decal - Maximum Tire Load 400S with 230kg Capacity	
35	1704829	4	Decal - Maximum Tire Load 400S with 340kg Capacity	
35	1704828	4	Decal - Maximum Tire Load 460SJ	
36	1701505	1	Decal - Fuel	
41	4420051	209 in/5.3m	Decal - Warning Stripes	

SECTION 8 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	1701499	4	Decal - No Lift	
46	1705276	1	Decal - Lift Diagram	
47	1704412	1	Decal - Hydraulic Oil Chart	
49	1701691	4	Decal - No Step	
50	1704726	4	Decal - Lock Latch	
52	1704885	2	Decal - WWW.JLG.COM	
53	0641406	4	Bolt 1/4in-20NC x 3/4in	

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

SECTION 9 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 9-1. MODEL 400S/460SJ STANDARD PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.**	
		Ref	**STANDARD PARTS**	
	2120210	4	Element, Filter	
	7012944	1	Coil	
	7012943	1	Coil	
	7021376	1	Coil	
	7018991	1	Coil	
	7012772	1	Coil	
	7012664	4	Element, Air Cleaner	
	3740067	1	Relay	
	7023205	4	Filter	
	4360475	1	Switch, Mushroom	
	4360470	1	Switch, Key	
	2860030	1	Key, Replacement	
	4360328	1	Switch, Toggle	
	4360476	1	Contact, Switch Block	
	3740049	1	Relay	
	2940074	1	Latch	
	1001129555	1	Controller (Lift and Swing)	
	1001118416	1	Controller (Drive and Steer)	
	4360387	1	Switch, Push Button	
	4360407	1	Controller, Speed	
	4360331	1	Switch, Toggle	
	4360232	1	Breaker, Circuit	
	7022818	1	Potentiometer	
	7022824	1	PC Board Assembly	
	7019166	1	Microswitch	
	3990010	2	Diode	

FIGURE 9-2. MODEL 400S/460SJ VARIABLE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	**Note: The following list will service one machine (built to current production per date on the front cover) with emergency repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.**	
		Ref	**VARIABLE PARTS**	
	7026855	1 Dozen	Filter, Oil (Caterpillar Engine Machines)	
	7026871	4	Filter, Fuel (Caterpillar Engine Machines)	
	70001990	1	Solenoid, Shutdown (Caterpillar Engine Machines)	
	7016331	1 Dozen	Filter, Oil (Deutz Engine Machines)	
	7020023	4	Filter, Fuel (Deutz Engine Machines)	
	7027245	4	Filter, Fuel (Deutz Engine Machines)	
	7020458	1	Solenoid, Shutdown (Deutz Engine Machines)	
	7027795	1	Module, Deutz EMR2 (Deutz Engine Machines)	
	3740080	1	Relay (Machines with Generator Option)	
	4360336	1	Switch, Toggle (Machines with Generator Option)	
	1600364	1	Module, Controller (Ground Control) (Caterpillar Engine)	
	1600411	1	Module, Controller (Ground Control) (Deutz Engine)	
	4360548	1	Switch, Limit	
	4360549	1	Switch, Limit	
	1600375	1	Module, Controller (Platform Control)	

SECTION 10 - SPECIAL OPTIONS

SECTION 10 - SPECIAL OPTIONS

FIGURE 10-1. SPECIAL OPTIONS LIST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	**Note: This list is to accommodate machines ordered with special equipment. Options may not be applicable to all models. For more specific parts information contact JLG Parts Department.**	
		Ref	**MISCELLANEOUS SPECIAL OPTIONS**	
	1340061	Ref	**Air Cleaner with Dust Evacuator Valve**	
	0271239	Ref	**Air Line at Platform Installation - 400S**	
	0271445	Ref	**Air Line at Platform Installation - 460SJ**	
	1001204996	Ref	**Arctic Package with SkyPower Installation Kit (400S Only)**	
	1001204997	Ref	**Arctic Package without SkyPower Installation Kit (400S Only)**	
	1001205008	Ref	**Arctic Package with SkyPower Installation Kit (460SJ Only)**	
	1001205009	Ref	**Arctic Package without SkyPower Installation Kit (460SJ Only)**	
		Ref	**Bellows Installations**	
	0259194	Ref	**Bellows Installations 400S with Oscillating Axle**	
	0259193	Ref	**Bellows Installations 400S with Fixed Axle**	
	0259196	Ref	**Bellows Installations 460SJ with Oscillating Axle**	
	0259195	Ref	**Bellows Installations 460SJ with Fixed Axle**	
	1001106689	Ref	**Boom Wear Pad Kit**	
	0259197	Ref	**Boom Wiper Installation**	
		Ref	**Cold Weather Start Kits**	
	0273064	Ref	**Caterpillar Engine Machines**	
	0270646	Ref	**Deutz Engine Machines (Ether Only) (Prior to SN 0300085617)**	
	0270647	Ref	**Deutz Engine Machines (Glow Plugs) (Prior to SN 0300064404)**	
	0271912	Ref	**Deutz Engine Machines - ADE System (SN 0300064404 through 0300085617)**	
	0270670	Ref	**Ford Engine Machines**	
	0258999	Ref	**Isuzu Engine Machines**	
		Ref	**Decal Installations**	
	1702788	1	Decal - Biodegradable Hydraulic Fluid (All except German Spec)	
	1704174	1	Decal - Biodegradable Synthetic Hydraulic Fluid (All except German Spec)	
	1703479	1	Decal - Biodegradable Hydraulic Fluid (German Spec Only)	
	1704175	1	Decal - Biodegradable Synthetic Hydraulic Fluid (German Spec Only)	
	0257195	Ref	Decal - Government Warranty Installation	
	1704150	1	Decal - Glow Plug Warning	
	0273250	Ref	Decal - Hertz	
	0273370	Ref	Decal - Nations Rent	
	1703175	1	Decal - Lanyard Attach (GM K-1 Spec)	
	1702868	2	Decal - No Hands (English Language) (Used with Mesh to Top Rail Platform)	
	1704000	2	Decal - No Hands (English and French Dual Language) (Used with Mesh to Top Rail Platform)	
	1702962	1	Decal - Prop 65 Warning (Diesel Machines) (California Spec)	
	1702961	1	Decal - Prop 65 Warning (Gasoline Machines) (California Spec)	
	0272607	Ref	Decal - SkyCutter	
	0272418	Ref	Decal - SkyGlazier (400S Only)	
		Ref	Decal - SkyPower Options:	
	0272435	Ref	ANSI Spec	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0272589	Ref	ANSI Export Spec	
		Ref	Decal - SkyWelder Options:	
	0272448	Ref	ANSI Spec	
	0272588	Ref	ANSI Export Spec	
	0270575	Ref	Decal - Sunbelt	
	0270574	Ref	Decal - United Rentals **(Prior to SN 0300069278)**	
	0271892	Ref	Decal - United Rentals **(SN 0300069278 through 0300096000)**	
	0257733	Ref	Decal Installation - Warning Stripes	
		Ref	**Decal Kits**	
	2910478	Ref	Decal Kit - Machine	
	1001108717	Ref	Decal Kit - Platform	
	1001109194	Ref	Decal Kit - Platform Console Box (without ADE)	
	2910865	Ref	Decal Kit - Platform Console Box (with ADE)	
	2902393	Ref	**Drive/Steer Cutout Kit**	
		Ref	**Electrical Connector Kits**	
	1001148902	Ref	Amp/Tyco Electrical Connector Kit	
	1001148903	Ref	Deutsch DT Electrical Connector Kit	
	1001148904	Ref	Deutsch HD Electrical Connector Kit	
	1001148905	Ref	Packard Electrical Connector Kit	
	1001148906	Ref	Various Electrical Connectors Kit	
	0258922	Ref	**Engine Block Heater Installation (Ford Engines)**	
	0270649	Ref	**Ether Start Installation (Deutz Engine Machines Only) (Prior to SN 0300085617)**	
		Ref	**Filter Kits:**	
		Ref	Combined Filter Kit (Hydraulic/Air and Fuel/Engine Oil)	
		Ref	Combined Filter Kit **(Prior to SN 0300087630)**	
	1001114035	NLA	Caterpillar Engine (Use p/n 1001110998)	
	2910495	NLA	Deutz Engine (Use p/n 1001110997)	
	1001114129	NLA	Deutz Engine (Use p/n 1001110997)	
		Ref	Combined Filter Kit **(SN 0300087630 through 0300096000)**	
	1001114034	NLA	Caterpillar Engine (Use p/n 1001111000)	
	1001114128	NLA	Deutz Engine (Use p/n 1001110999)	
		Ref	Hydraulic/Air Filter	
	1001114060	NLA	Hydraulic/Air Filter (Use p/n 1001109694) **(Prior to SN 0300087630)**	
	1001114120	NLA	Hydraulic/Air Filter (Use p/n 1001109694) **(Prior to SN 0300087630)**	
	1001114061	NLA	Hydraulic/Air Filter (Use p/n 1001109698) **(SN 0300087630 through 0300096000)**	
	1001114121	NLA	Hydraulic/Air Filter (Use p/n 1001109698) **(SN 0300087630 through 0300096000)**	
		Ref	Engine - Fuel/Engine Oil Filter	
	1001110139	1	Caterpillar Engine	
	1001110138	1	Deutz Engine	
		Ref	**Footswitch Shield Installation**	
	4060959	1	Shield, Footswitch **(Prior to SN 0300091439)**	
	3380652	1	Shield, Footswitch **(SN 0300091439 through 0300096000)**	
	1001175930	Ref	**Generator (4000W) Kit**	
		Ref	**Glow Plug Installations (Deutz Engine Machines)**	
	0270648	Ref	**Glow Plug Installation (Prior to SN 0300064404)**	
	0271548	Ref	**Glow Plug Installation - ADE System (SN 0300064404 through 0300085617)**	
		Ref	**Hose Kits**	

SECTION 10 - SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001187481	Ref	**Hose Kit - Boom (400S)**	
	1001187482	Ref	**Hose Kit - Boom (460SJ)**	
	1001204921	Ref	**Hostile Environment Kit, 400S**	
	1001204922	Ref	**Hostile Environment Kit, 400SJ**	
		Ref	**Hydraulic Fluids Options:**	
	2300014	Ref	Mobil 424	
	2300027	Ref	Mobil 224H Bio	
	2300029	Ref	Mobil EAL ISO 46 Bio	
	2300016	Ref	Mobil DTE 13M	
	2300019	Ref	Quaker State Quintolubric 888-46 Fire Res.	
		Ref	**Hydraulic Welder Assemblies**	
	0270044	1	225A - 400S **(Prior to SN 0300064404)**	
	0271579	1	200A - 400S **(Prior to SN 0300064404)**	
	0271358	1	225A - 400S - ADE System **(SN 0300064404 through 0300064508)**	
	0272025	1	225A - 400S - ADE System **(SN 0300064509 through 0300096000)**	
	0270361	1	225A - 460SJ **(Prior to SN 0300064404)**	
	0271580	1	200A - 460SJ **(Prior to SN 0300064404)**	
	0271359	1	225A - 460SJ - ADE System **(SN 0300064404 through 6030004508)**	
	0272024	1	225A - 460SJ - ADE System **(SN 0300064509 through 0300096000)**	
		Ref	**Hydraulic Oil Cooler Installations**	
	0256765	1	Deutz **(Prior to SN 0300063791)**	
	0256778	1	Ford **(Prior to SN 0300063791)**	
	0271607	1	Ford/Deutz **(SN 0300063791 through 0300096000)**	
	1001148971	Ref	**Lanyard (Bolt-On) Kit Installation**	
		Ref	**Lift Companion Components**	
		Ref	**Data Recorder Installations:**	
	0258584	Ref	**Lift Companion 5**	
	0258585	Ref	**Lift Companion 6**	
	2901662	Ref	**Start up Kit**	
		Ref	**Collection Box Kits:**	
	2901659	Ref	**All Specs except Latin American**	
	2901663	Ref	**Latin American Spec**	
	1001183407	Ref	**Low Temperature Cutout Installation**	
		Ref	**Platform Cover Installations**	
	0258703	Ref	**Clear Plastic Construction**	
	1670870	1	Cover	
		Ref	**Steel Construction Options:**	
	0258981	Ref	**Steel Construction (Prior to SN 0300065099)**	
	0271675	Ref	**Steel Construction (SN 0300065099 through 0300096000)**	
		Ref	Cover Weldment Options:	
	4845950	1	Cover Weldment **(Prior to SN 0300065099)**	
	4846506	1	Cover Weldment **(SN 0300065099 through 0300096000)**	
	1670894	1	Cover, Rubber	
	2915227	Ref	**Platform Conversion Kit - Rear Entry to Side Entry**	
		Ref	**Platform Entry Kit**	
	1001142504	Ref	**Kit, Replace Swing Gate with Drop Bar**	
	1001142505	Ref	**Kit, Replace Drop Bar with Swing Gate**	
		Ref	**Platform Mesh to Top Rail Add-on Kits (Side Entry Platform):**	

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001214552	Ref	30in x 4ft (76cm x 1.22m) with Gate	
	1001214559	Ref	30in x 5ft (76cm x 1.52m) with Gate	
	1001214561	Ref	36in x 6ft (91.5cm x 1.83m) with Gate	
	1001214562	Ref	36in x 8ft (91.5cm x 2.44m) with Gate	
		Ref	**Platform Mesh to Top Rail Installations (Side Entry Platform):**	
	0273147	Ref	30in x 4ft (76cm x 1.22m)	
	0273146	Ref	30in x 5ft (76cm x 1.52m)	
	0273149	Ref	36in x 6ft (91.5cm x 1.83m)	
	0273145	Ref	36in x 8ft (91.5cm x 2.44m)	
		Ref	**Platform Mesh to Mid Rail Add-on Kits (Side Entry Platform):**	
	1001214478	Ref	30in x 4ft (76cm x 1.22m) with Gate	
	1001214515	Ref	30in x 5ft (76cm x 1.52m) with Gate	
	1001214540	Ref	36in x 6ft (91.5cm x 1.83m) with Gate	
	1001214548	Ref	36in x 8ft (91.5cm x 2.44m) with Gate	
		Ref	**Platform Mesh to Mid Rail Installation (Side Entry Platform):**	
	1001140318	Ref	30in x 4ft (76cm x 1.22m)	
	1001140315	Ref	30in x 5ft (76cm x 1.52m)	
	1001138772	Ref	36in x 6ft (91.5cm x 1.83m)	
	1001138773	Ref	36in x 8ft (91.5cm x 2.44m)	
	1001149730	Ref	**Platform Mid Rail Repair Kit**	
		Ref	**Platform Rail Extension Installations**	
	0271603	Ref	**30in x 6ft Platforms (Front Entry Platform)**	
	0272733	Ref	**36in x 6ft Platforms (Side Entry Platform)**	
	0272725	Ref	**36in x 8ft Platforms (Side Entry Platform)**	
	0861575	Ref	**Proportional Valve Drive Installation (SN 0300069278 through 0300096000)**	
	1600344	2	Controller	
	4922829	1	Harness, Feed Back	
		Ref	**SkyGuard Component Options:**	
	1001149560	Ref	SkyGuard Complete Add-On Kit (Non-UGM Machines)	
	1001137672	Ref	SkyGuard Platform Sensor Kit	
	1001143256	Ref	SkyGuard Blue Beacon Kit	
	1001228357	Ref	**Telematics Retrofit Harness Kit (Machines with UGM)**	
		Ref	**Tire Sealant Installations**	
	0272307	Ref	12 x 16.5	
	0272301	Ref	14 x 17.5	
		Ref	**Tools for Service**	
	2901443	1	Analyzer Kit **(SN 0300064404 through 0300096000)**	
	8896941	1	Wire Stripper	
	7002821	1	Wire Crimper (To install wire ends to wires)	
	7002823	1	Pin/Socket Extractor - Universal (To Remove Pins/ Sockets from Connectors)	
	4460467	1	Extractor - 16-18 Gauge (For Removal of Pin/ Sockets from Deutsch Connectors)	
	4460510	1	Extractor - 12-14 Gauge (For Removal of Pin/ Sockets from Deutsch Connectors)	
	7002822	1	Screwdriver, Potentiometer (To Adjust Drive Controllers)	
	7016654	1	Screwdriver, Magnetic	
	7004275	1	Seal Installation Tool - 1in	
	7004276	1	Seal Installation Tool - 1-1/2in	
	7002826	1	Seal Installation Tool - 2in	
	7016655	1	Wire Rope Sheave Gauge	

SECTION 10 - SPECIAL OPTIONS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4922012	1	Horsepower Card Service Harness	
		Ref	**Weld Leads at Platform Installations**	
	0271240	Ref	**Weld leads at Platform Installations 400S**	
	0271446	Ref	**Weld leads at Platform Installations 460SJ**	

PART NUMBER INDEX

PART NUMBER INDEX

0020005.....51
0020006.....51
0060033.....87, 266
0060047.....147
0060048.....152, 155
0060059.....147, 155
0080163.....91, 97
0080181.....80
0080201.....80
0080231.....88, 95
0080241.....123
0100009.....176, 181
0100010.....163
0100011....11, 12, 15, 16, 19, 20, 25, 52, 55, 59, 69, 80, 82, 88, 94, 95, 111, 115, 121, 124, 127, 131, 134, 137, 143, 144, 145, 147, 148, 151, 152, 159, 171, 173, 176, 182, 203, 213, 221, 223, 227, 233, 235, 239, 243
0100019....12, 15, 16, 20, 25, 69, 137
0100020....80, 82, 88, 94, 95, 163, 177, 181
0100035.....124, 176, 181
0100038....221, 223, 227, 233, 235, 239, 243
0100040.....163
0100048.....94, 119, 123, 124, 159, 181, 272
0100062.....139
0100063.....243
0100081.....182
0140001.....59
0140011.....181
0140026.....176
0140032.....123
0200048.....171, 173
0200530.....134
0200741.....134
0200742.....131, 134
0240047.....52
0240049.....52
0240050.....52
0255917.....123, 278
0256765.....302
0256778.....302
0256847.....91, 97
0257195.....300
0257728.....217
0257733.....301
0257887.....278
0258308.....123
0258309.....164, 261
0258584.....302
0258585.....302
0258608.....177
0258703.....302
0258922.....301
0258981.....302
0258999.....300
0259135.....143
0259136.....143
0259138..... 87
0259141..... 127
0259143..... 111
0259145..... 25, 47
0259146..... 25, 47
0259147..... 69
0259148..... 12
0259149..... 20
0259150..... 11
0259151..... 19
0259152..... 11
0259153..... 19
0259155..... 69
0259156..... 69
0259157..... 124
0259158..... 69
0259161..... 283, 289
0259162..... 283, 289
0259163..... 283
0259164..... 283
0259165..... 283
0259166..... 283
0259167..... 283
0259168..... 283
0259169..... 283
0259170..... 283
0259171..... 283
0259172..... 283
0259173..... 283
0259174..... 283
0259187..... 59
0259191..... 144, 264
0259192.... 145, 152, 264
0259193..... 300
0259194..... 300
0259195..... 300
0259196..... 300
0259197..... 300
0259233.... 164, 178, 260
0259354..... 26
0259355..... 26
0259356..... 26
0259640..... 59
0259641..... 59
0259665..... 51
0259674..... 51
0259852..... 124
0259856..... 151, 152
0259857..... 124
0259875..... 69
0259963..... 177, 183
0259964..... 177, 183
0259968..... 177, 183
0259982..... 283, 289
0259983..... 283
0259984..... 283
0259985..... 283
0259986..... 283
0259987..... 283
0259988..... 283
0270023..... 267, 277
0270029..... 51, 52
0270030..... 51, 52
0270044..... 208, 302
0270076..... 26
0270077..... 26
0270079..... 26
0270086..... 51
0270092..... 26
0270094..... 26
0270159..... 123
0270160..... 123
0270180..... 52
0270184..... 51
0270186..... 52
0270187..... 52
0270192..... 51
0270193..... 51, 52
0270213..... 144
0270259..... 51
0270270..... 124
0270294..... 151, 152
0270295..... 143
0270296..... 143
0270326..... 69
0270354..... 128
0270361..... 208, 302
0270392..... 164, 178
0270398.... 283, 289, 293
0270499..... 133
0270574..... 301
0270575..... 301
0270646..... 260, 300
0270647..... 260, 300
0270648..... 301
0270649..... 260, 301
0270653..... 26
0270654..... 26
0270655..... 26
0270670..... 300
0270715..... 11
0270716..... 19
0270814... 164, 168, 183, 261
0271040..... 171
0271080..... 121
0271081..... 121
0271161.... 145, 152, 272
0271162..... 144, 272
0271163..... 124
0271164..... 124
0271165..... 124
0271166..... 124
0271211..... 51
0271212..... 51
0271213..... 51
0271215..... 51
0271218..... 51
0271239..... 300
0271240..... 304
0271245..... 87
0271333..... 260
0271340..... 183
0271342..... 123
0271343..... 123, 183
0271347..... 133
0271355..... 171, 183
0271358..... 208, 302
0271359..... 208, 302
0271445..... 300
0271446..... 304
0271474.... 116, 164, 178
0271542.....116, 164, 178
0271543.....165, 261
0271548.....301
0271579.....208, 302
0271580.....208, 302
0271603.....303
0271607.....302
0271658.....121
0271660.....121
0271675.....302
0271892.....301
0271912.....260, 300
0271977.....11
0271978.....19
0271979.....11
0271980.....19
0271996.....26
0271997.....26
0271998.....26
0272007.....171
0272010.....133
0272018.....123, 183
0272024.....208, 302
0272025.....208, 302
0272035.....163
0272036.....163
0272070.....148, 152
0272169.....165, 261
0272274.....11
0272275.....19
0272294.....133
0272301.....303
0272307.....303
0272418.....300
0272427.....173
0272435.....300
0272444.....173
0272448.....301
0272521.....213
0272588.....213, 301
0272589.....139, 301
0272591.....143
0272592.....143
0272593.....151, 152
0272596.....137
0272606.....203
0272607.....203, 300
0272609.....167
0272612.....144, 272
0272613.....145, 152, 272
0272615.....133
0272616.....133
0272703.....159
0272725.....303
0272731.....111
0272733.....303
0272783.....25, 47
0272784.....25, 47
0272803.....15
0272804.....16
0272805.....55
0272828.....55
0272897.....144
0272900.....11
0272901.....19
0272902.....11

0272903 19
0272904 11
0272905 19
0272906 15
0272925 ..... 25, 47
0272926 ..... 25, 47
0272927 20
0272940 121
0272941 121
0272970 ..... 167, 182
0272989 80
0272994 82
0272999 143
0273004 137
0273051 131
0273064 300
0273065 143
0273145 303
0273146 303
0273147 303
0273149 303
0273181 283
0273182 283
0273183 283
0273250 300
0273370 300
0273473 15
0273493 168
0273494 168
0273944 94
0274085 133
0274089 133
0274334 94
0274417 121
0274418 121
0274570 168
0274574 ..... 123, 183
0274584 168
0274589 283
0274600 59
0274601 59
0274605 82
0275066 293
0275067 293
0275068 293
0340041 ..... 80, 88, 95
0340046 80
0360406 55
0360541 88
0361810 ..... 82, 88, 94
0362528 124
0362610 124
0362909 124
0362932 ..... 11, 15
0362936 47
0362949 208
0362954 ..... 11, 15, 19
0362965 19
0363019 55
0370024 241
0400075 ..... 82, 88, 94
0440161 20
0440162 ..... 12, 16
0440240 69
0440271 20
0440274 21
0440291 21
0480100 217
0480118 134
0480120 ..... 131, 134
0480126 137
0480128 137
0561185 ..... 147, 151
0561237 152
0561300 ..... 11, 12, 15
0630462 ..... 171, 173
0630464 ..... 47, 176, 181
0630491 123
0630498 88
0630518 ... 116, 119, 176, 213
0630534 ..... 227, 231
0630535 ... 223, 233, 235, 243
0630541 ..... 82, 88, 94
0630548 119
0630566 145
0630568 183
0630569 80
0641403 137
0641404 ..... 35, 124, 137, 176, 181
0641405 159
0641406 . 80, 87, 95, 116, 121, 124, 148, 151, 163, 167, 176, 181, 203, 287, 290, 294
0641407 ..... 159, 165
0641408 51, 80, 137, 163, 167, 181, 286, 289, 293
0641410 .... 80, 82, 89, 94
0641412 ..... 59, 208
0641414 11, 19, 164, 168, 171, 173, 181, 208
0641416 .... 127, 152, 159
0641418 163
0641420 59
0641424 ..... 11, 15, 19
0641504 ..... 47, 55
0641505 137
0641506 ..... 80, 89
0641507 ..... 80, 95
0641508 16, 47, 131, 134
0641510 ... 59, 89, 95, 97, 208
0641512 95
0641514 ..... 208, 217
0641516 .... 137, 145, 159
0641518 168
0641530 47
0641538 ..... 47, 48
0641604 ..... 145, 243
0641605 .... 144, 147, 152
0641606 ... 12, 16, 19, 21, 47, 147, 151, 203, 213
0641607 ... 11, 12, 15, 20, 48
0641608 ... 80, 87, 95, 97, 111, 127, 143, 147, 151, 152
0641609 ..... 82, 95, 144
0641610 . 59, 80, 87, 124, 127, 131, 134, 143, 147, 151, 152, 163, 167, 181
0641611 ..... 88, 95, 176
0641612 127
0641613 208
0641616 .. 82, 89, 94, 147, 151
0641618 . 47, 48, 138, 152
0641620 ..... 19, 143
0641626 ..... 11, 15
0641772 ..... 131, 134
0641808 ..... 51, 137
0641810 ..... 69, 208
0641812 .. 80, 87, 95, 148, 153
0641814 143
0641820 ... 80, 87, 95, 144
0641822 159
0641826 69
0642010 .... 11, 15, 19, 82, 89, 94
0642012 ... 11, 15, 19, 143
0642024 159
0642682 ..... 148, 153
0642684 159
0651406 59
0681608 ..... 148, 153, 159
0681610 143
0681612 134
0681632 143
0681810 25
0681822 51
0681824 16
0681828 ..... 12, 16, 21
0681832 69
0681856 51
0681872 51
0682012 25
0682014 25
0682018 69
0682026 69
0682040 55
0682048 69
0682248 ..... 11, 15, 19
0700808 80
0700810 ..... 91, 97
0700816 ..... 88, 95
0700819 134
0701010 165
0701012 87
0701014 95
0701015 ..... 87, 95
0701217 ..... 131, 137
0701414 ..... 87, 95, 134
0720805 ..... 116, 121
0721003 ..... 176, 183
0721004 ..... 80, 115, 119, 137
0721006 ..... 80, 116, 134
0721008 ..... 131, 135, 182
0721010 176
0731004 ..... 115, 176
0731005 ..... 171, 173
0731007 111
0741605 ..... 148, 151
0741607 147
0741610 ..... 80, 88, 95
0750605 209
0750808 128
0771012 95
0771415 139
0801186 ..... 143, 151
0801213 147
0801214 151
0801215 147
0801216 151
0801223 ..... 143, 147
0801244 ..... 143, 147
0801245 ..... 143, 151
0801359 ..... 143, 147
0801360 ..... 143, 151
0840041 208
0840055 ..... 159, 160
0860520 .... 286, 289, 293
0860984 175
0861195 175
0861270 175
0861271 175
0861273 175
0861284 116
0861285 116
0861320 127
0861327 127
0861359 175
0861360 115
0861361 115
0861392 181
0861414 ..... 181, 182
0861436 119
0861437 119
0861497 119
0861498 119
0861509 181
0861510 181
0861535 175
0861537 ..... 181, 183
0861541 139
0861567 ..... 137, 139
0861571 181
0861572 138
0861575 303
0861593 119
0861594 119
0861708 119
0861709 119
0861737 119
0861738 119
0902461 87
0902464 87
0902556 69
0902668 ..... 127, 128
0902669 127
0902673 128
0902674 128
0902733 55
0902734 55
0902740 ..... 89, 95
0902751 181
0902888 137
0902894 159
0902919 159
0902920 159
0903063 95
0920116 ..... 69, 73

PART NUMBER INDEX

0920119.....69, 73
0940049...82, 89, 94, 127
0940071.....127
0940092.....171
0940094.....171
0940101.....171
0940103.....173
0941611.....82
0961845.....163
0961890.....221
0961893.....227, 231
0961894.....223, 235
0961896.....243
0961897.....233
0961947.....152, 155
0961948.....51
0961950..11, 15, 19, 148, 151, 233
0961951..13, 16, 21, 148, 151, 155, 223, 225, 235, 237
0962140...13, 16, 21, 221
0962172.....80, 89, 95
0962292.....16
0962293.....51
0962336.....227, 229, 231
0962348.....16
0962450.....159
0962474.....221
0962520.....137
1001097554.....83
1001099830.....144
1001100321.....131, 133
1001101228.....81
1001101232.....81
1001101233.....81
1001102354.....52
1001106689.....300
1001108717.....301
1001109194.....301
1001110138.....301
1001110139.....301
1001113961.....197, 199
1001114034.....301
1001114035.....301
1001114060.....301
1001114061.....301
1001114120.....301
1001114121.....301
1001114128.....301
1001114129.....301
1001117320.....167
1001118416.....199, 296
1001118417.....189
1001121340.....139
1001129555.....296
1001137672.....303
1001138772.....303
1001138773.....303
1001138795.....231
1001140283.....12, 16, 21
1001140315.....303
1001140318.....303
1001140586.....225
1001140587.....237
1001142504.....302
1001142505.....302
1001143256..... 303
1001144629..... 167
1001148902..... 301
1001148903..... 301
1001148904..... 301
1001148905..... 301
1001148906..... 301
1001148971..... 302
1001149560..... 303
1001149730..... 303
1001166538..... 201
1001166539..... 191
1001175930..... 301
1001183407..... 302
1001187481..... 302
1001187482..... 302
1001204921..... 302
1001204922..... 302
1001204996..... 300
1001204997..... 300
1001205008..... 300
1001205009..... 300
1001214478..... 303
1001214515..... 303
1001214540..... 303
1001214548..... 303
1001214552..... 303
1001214559..... 303
1001214561..... 303
1001214562..... 303
1001225901..... 144
1001228012..... 152, 229
1001228357..... 303
1001248012..... 152, 231
1060079..... 260, 267
1060279.... 286, 289, 293
1060341.... 125, 267, 278
1060379..... 217
1060461..... 264, 272
1060515..... 264
1060516..... 264
1060602..... 265
1060609..... 125
1060680..... 125
1060883..... 208
1060896..... 273
1060902..... 277, 279
1060903..... 171, 173
1060904..... 80, 97
1060918... 164, 168, 181, 272
1060983..... 168, 279
1060984..... 272
1060986..... 272
1100118..... 11, 19
1100123..... 11, 15, 19
1120484..... 112
1120487..... 112
1120532..... 111
1180336..... 144
1180379..... 144
1260017..... 69
1271538..... 159
1282937..... 260
1283084... 249, 251, 255, 258
1320012..... 80, 81
1320016..... 80, 88, 95
1320022... 80, 82, 89, 94, 95
1320060..... 176
1320130..... 208
1320136..... 159
1320146..... 208
1320176.... 89, 90, 96, 98
1320177..... 203
1320222..... 88, 95
1320223.... 82, 89, 94, 95
1320224..... 159
1320291..... 208
1320302..... 203, 213
1320318..... 137
1340060..... 80, 88, 95
1340061..... 300
1403518..... 286
1580011..... 80
1580012..... 164, 168
1580013..... 164, 168
1600218..... 177
1600283..... 175, 195
1600284..... 175, 185
1600312..... 119
1600313..... 181
1600317..... 181, 187
1600318..... 181, 197
1600327..... 119
1600344..... 303
1600364..... 119, 298
1600375..... 181, 298
1600387..... 159
1600411..... 119, 298
1660219..... 69
1660219RR..... 69
1660234..... 91, 97
1660255..... 80
1670769..... 152
1670824..... 124
1670829... 116, 119, 176, 181
1670836..... 148, 151
1670870..... 302
1670894..... 302
1670900..... 165
1670905..... 165
1670956..... 124
1671037..... 182
1683053..... 227
1683054..... 243
1683055..... 223, 235
1683063..... 233
1683076..... 221, 239
1683261..... 227
1683572..... 221
1683574..... 221
1683575..... 11, 19, 221
1683609..... 152, 227
1683614.. 12, 16, 21, 239
1683615..... 239
1683658..... 239, 241
1683687..... 227
1683776..... 143, 233
1683778..... 147
1683844..... 233
1683846..... 233
1683861.....223
1683893.....243
1683895.....243
1683897.....147, 151, 243
1683949.....235
1683950.....235
1683951.....143, 235
1683952.....223
1684012.....223
1684013.....151, 223
1684138.....221
1684139...11, 15, 20, 221
1684193.....243
1684194.....147, 151, 243
1684283.....235
1684284.....143, 235
1684312.....243
1684412.....241
1693292.....286
1693294.....286
1700584.....286, 289, 293
1701499.....286, 289, 294
1701500.....286, 289, 293
1701502.....286, 289, 293
1701503.....286, 289, 293
1701504.....286, 289, 293
1701505 82, 89, 286, 289, 293
1701509.....286, 289, 293
1701515.....94
1701518.....285, 289, 293
1701529.....286, 289, 293
1701600.....286
1701691.....287, 289, 294
1701791.....286
1702300.....286, 289, 293
1702564.....175, 181
1702565.....175, 181
1702566.....175, 181
1702567.....175, 181
1702610.....115, 119
1702676.....181
1702773.....285, 289, 293
1702774.....285, 289, 293
1702788.....300
1702861.....285, 289, 293
1702868.....300
1702928.....286
1702938.....183
1702961.....300
1702962.....300
1702968.....55
1703090.....177
1703091.....177
1703092.....177
1703093.....177
1703162.....80, 89, 96
1703175.....300
1703450.....55
1703479.....300
1703622.....116
1703683.....217
1703776.....175
1703799.....284
1703800.....285
1703807.....284, 285
1703914.....284

1703915 284
1703916 285
1703917 284
1703918 284
1703919 284
1703920 285
1703992 .... 283, 284, 289
1704000 300
1704150 300
1704174 300
1704175 300
1704260 ..... 176, 181
1704277 .... 285, 289, 293
1704412 .... 286, 289, 294
1704465 ..... 115, 120
1704466 ..... 115, 120
1704472 .... 285, 289, 293
1704473 .... 285, 289, 293
1704485 ..... 177, 183
1704486 ..... 177, 183
1704503 ..... 283, 289
1704504 284
1704505 284
1704506 284
1704507 284
1704508 284
1704509 284
1704514 ..... 177, 183
1704540 287
1704578 55
1704586 52
1704726 .... 287, 289, 294
1704767 283
1704808 ..... 283, 284
1704809 ..... 283, 284
1704810 283
1704811 283
1704812 283
1704819 .... 284, 285, 289
1704820 ..... 284, 285
1704821 ..... 284, 285
1704822 ..... 284, 285
1704823 ..... 284, 285
1704824 ..... 284, 285
1704825 287
1704827 286
1704828 .... 286, 289, 293
1704829 .... 286, 289, 293
1704885 .... 287, 290, 294
1704895 208
1704896 208
1704919 209
1704920 209
1704997 181
1705000 209
1705084 293
1705132 ..... 121, 182
1705255 285
1705270 ..... 283, 284
1705272 ..... 284, 285
1705275 286
1705276 ..... 286, 294
1705305 .... 203, 209, 213
1705325 135
1705355 213
1705376 139
1705410 ..... 284, 285
1705460 139
1705461 139
1705466 ..... 203, 213
1705489 139
1705490 203
1705752 119
1705753 119
1705822 ..... 285, 293
1705825 284
1705828 ..... 286, 293
1705921 ..... 284, 293
1705961 ..... 285, 293
1705978 .... 285, 286, 293
1706098 94
1706126 ..... 289, 293
1706382 293
1706712 119
1780305 127
1780307 ..... 115, 120
1840013 115
1840014 115
1840015 115
1840020 115
1870119 261
1870132 261
1870191 261
2000162 ..... 87, 89
2000175 ..... 87, 89
2000190 ..... 87, 90
2000195 ..... 80, 83
2000217 ..... 96, 97
2000245 94
2000247 95
2000273 ..... 96, 97
2000286 94
2000287 95
2000313 80
2000338 ..... 96, 97
2000347 95
2030010 .... 203, 208, 213
2060025 ..... 88, 96
2060032 80
2080040 .... 163, 167, 168
2080044 ..... 152, 208
2120150 59
2120163 59
2120209 59
2120210 ..... 59, 296
2160002 69
2180344 69
2180422 256
2180482 80
2180536 ..... 82, 89
2180724 256
2180798 ..... 80, 88, 96
2180832 203
2200221 96
2200222 .... 75, 82, 89, 94
2220001 69
2220124 69
2220237 .... 249, 251, 255
2220240 249
2220242 ..... 249, 251
2220250 ..... 82, 89
2220273 .... 70, 82, 89, 94
2220313 ..... 82, 89, 94
2220362 ..... 249, 251
2220366 251
2220371 ..... 249, 251, 255
2220372 255
2220373 ..... 249, 251, 255
2220375 .... 247, 249, 251, 255
2220376 ..... 80, 103, 255
2220377 255
2220379 255
2220380 255
2220385 ..... 105, 247, 255
2220409 88
2220414 256
2220415 .... 247, 249, 251, 255
2220428 255
2220429 255
2220435 ..... 249, 251, 255
2220451 ..... 88, 96, 255
2220459 ..... 82, 89
2220465 ..... 249, 251
2220466 ..... 249, 252, 255
2220468 255
2220472 ..... 252, 255
2220473 255
2220479 ..... 80, 105, 255
2220481 249
2220490 247
2220497 255
2220498 ..... 80, 103, 255
2220500 255
2220501 ..... 247, 249, 251
2220502 255
2220504 ..... 249, 251
2220567 ..... 80, 255
2220568 249
2220578 ..... 80, 103, 251, 256
2220582 ..... 249, 251, 255
2220596 ..... 249, 251, 255
2220600 ..... 249, 251, 255
2220602 252
2220603 ..... 247, 256
2220635 247
2220711 247
2220775 256
2220794 ..... 82, 89, 94
2220810 ..... 80, 105, 256
2220883 43, 44, 223, 227, 229, 231, 233, 243
2220885 .... 221, 223, 227, 229, 231, 235, 243
2220886 . 43, 44, 233, 243
2220888 43
2220899 256
2220906 255
2220947 ..... 80, 103, 255
2221030 ..... 249, 251, 255
2221034 247
2221040 247
2221041 ..... 80, 103, 256
2221042 255
2221043 247
2221044 256
2221045 ..... 80, 255
2221063 256
2221086 256
2221176 94
2221216 256
2300014 302
2300016 ..... 26, 302
2300019 302
2300027 302
2300029 302
2360539 ..... 13, 17, 22
2360540 ..... 13, 17, 22
2360541 ..... 13, 17, 22
2360551 ..... 13, 17, 22
2360625 ..... 13, 17, 22
2360626 ..... 13, 17, 22
2360627 ..... 13, 17, 22
2360628 ..... 13, 17, 22
2360650 ..... 13, 17, 22
2360651 ..... 13, 17, 22
2360652 ..... 13, 17, 22
2360653 ..... 13, 17, 22
2400060 139
2400064 139
2400065 276
2400066 ..... 276, 279
2400070 279
2420172 ..... 115, 120
2420191 111
2420194 177
2420197 181
2420202 159
2420203 134
2460013 ..... 131, 133
2460034 133
2460039 133
2460048 138
2460049 133
2460056 133
2460057 133
2540035 127
2560136 ..... 175, 181
2560173 168
2570008 241
2600209 127
2600211 ..... 175, 182
2600219 163
2600258 127
2600281 167
2600287 163
2680463 127
2680464 127
2680465 127
2680466 127
2680471 127
2680516 127
2720058 .... 80, 82, 89, 95
2720160 203
2720271 ..... 82, 89
2720351 89
2720398 ..... 88, 96
2720434 ..... 88, 96
2720449 ..... 89, 96
2720507 80
2720508 81
2750532 ... 81, 82, 89, 94, 96
2751013 247
2751095 70
2752430 256

PART NUMBER INDEX

2752442.....249
2752443.....251, 256
2752466.....249, 251
2752469.....247
2752471.....247, 256
2752492.....249, 251
2752495.....249, 251
2752496.....249, 252
2752502.....251
2752506.....249, 251
2752519.....256
2752573.....256
2752594.....251
2752632.....247
2752763.....256
2752908.....249, 251
2752942.....256
2752944.....251
2752977.....249, 251
2753035.....247, 251
2753118.....247
2753162.....251
2753339.....247
2753340.....249, 251
2753341.....249, 251
2753342.....247
2753343.....249, 251
2753344.....249
2753345.....251
2753346.....249, 251
2753347.....249
2753348.....256
2753349.....256
2753350.....256
2753351.....256
2753352.....256
2753353.....256
2753354.....256
2753355.....256
2753356.....256
2753357.....256
2753358.....256
2753359.....256
2753360.....256
2753368.....256
2753369.....256
2753372.....256
2753373.....256
2753416.....251
2753417.....251
2753502.....256
2753511.....256
2753512.....256
2753513.....256
2753514.....256
2753515.....256
2753516.....256
2753517.....256
2754229.....249, 251
2760105.....115, 120
2760109.....175, 181
2780221.....51, 52
2780230.....12, 13, 16
2780243.....25, 31
2780244.....25, 31
2780246.....25, 29
2780247.....69, 75
2780253..... 25, 31
2780254..... 25, 31, 32
2780267..... 25, 35
2780268..... 25, 35
2792383..... 255, 258
2792384..... 255, 258
2792385..... 249, 258
2792386..... 251, 258
2792387..... 258
2792398..... 247, 258
2792432..... 258
2792455..... 247, 258
2792598..... 258
2792704..... 255, 258
2792705..... 255, 258
2820031.... 131, 134, 138
2820035... 123, 164, 168, 267
2820080..... 128
2820099..... 128
2820128..... 89, 94, 128
2820129..... 128
2860012..... 134
2860030.... 115, 120, 296
2900708..... 47, 48
2900733..... 77
2900770..... 155, 221
2900792... 223, 225, 227, 229, 231, 233
2900804..... 52
2901301..... 223, 235
2901303..... 227
2901443..... 279, 303
2901547..... 239
2901548..... 221
2901637..... 87
2901659..... 302
2901662..... 302
2901663..... 302
2901811..... 164
2901841..... 233
2901861..... 244
2901880..... 81, 88, 95
2901943..... 164
2901971..... 208
2902217..... 213
2902393..... 260, 301
2902400..... 21
2902409..... 241
2902443..... 276
2910000..... 266
2910001..... 266
2910478..... 301
2910495..... 301
2910865..... 301
2915014..... 119
2915227..... 302
2920110..... 123
2920113..... 123
2920129... 177, 181, 264, 265, 276
2920130..... 123
2920140.... 164, 168, 278
2920157.... 123, 168, 278
2920162..... 131, 133
2920214..... 123
2920215..... 123
2940073.... 115, 120, 127
2940074.... 163, 167, 296
2940117..... 127
2940118..... 47
3020021..... 91, 97
3020029..... 21
3020043..... 241
3160242..... 25, 39
3160243..... 25, 39
3160249..... 69, 77
3160266..... 25, 39
3160280..... 69, 77
3160298..... 25, 39
3160348..... 43
3160351..... 43
3160353..... 43
3160354..... 43
3200378..... 81, 87
3200406..... 96
3220110..... 89, 96
3220112..... 89, 96
3220113..... 81
3250585..... 168
3250872..... 55
3251102.... 131, 135, 183
3251242.... 286, 289, 293
3251963..... 208
3252347..... 168, 286
3252672..... 286, 289
3252675..... 286
3252676..... 286
3252677..... 286
3252678..... 286
3252679..... 286
3252764..... 137, 209
3271805..... 51
3272201..... 12, 15, 20
3272205..... 16
3272605.... 148, 153, 159
3300106..... 26
3300151.... 163, 203, 213
3300220..... 81
3300255..... 51
3300353..... 182
3300396..... 139
3300408... 116, 120, 176, 181
3300441..... 127
3310601..... 139
3310805..... 116, 121
3311001... 167, 177, 182, 183
3311005 . 47, 81, 88, 123, 124, 131, 134, 138, 163, 175, 182, 213
3311401... 120, 165, 171, 173, 176
3311405... 59, 81, 83, 87, 94, 96, 116, 121, 127, 138, 159, 164, 168, 181, 203, 208, 286, 289, 293
3311501 . 83, 89, 94, 127, 171, 173
3311505... 47, 48, 59, 81, 89, 96, 127, 137, 145, 208, 217
3311508.....159
3311601.... 111, 124, 127, 143, 144, 175, 182, 183
3311602.....111
3311605.... 47, 48, 81, 82, 88, 94, 96, 127, 131, 134, 143, 152, 164, 168, 176, 181, 203, 213
3311608.....144
3311705.....131, 134
3311801... 25, 55, 69, 139
3311805.. 81, 87, 96, 144, 148, 153, 159, 208
3312005.... 55, 82, 89, 94, 159
3312008.....12, 16, 21
3322201..... 12, 16, 20, 21
3323003.....12, 16
3340399.... 81, 83, 88, 94, 96
3340453.....144
3340608.....243
3340853.....143
3340867.....147, 151
3340868.....147, 151
3340869.....147, 151
3340870.....147, 151
3340897.....145
3340898.....47, 48
3380434.....164, 168
3380652.....301
3420156.....183
3420352.....55
3420372.....55
3421565.....69
3422457.....147, 151
3422561.....143, 151
3422564.....143
3422566.....143
3422582.....147
3422592.... 11, 12, 15, 19, 20
3422661.....217
3422690.....143
3422692.....12, 16
3422716.....21
3422786.....51
3422848.....16
3422851.....144
3422859.....148, 151
3422860.....152
3422861.....152
3422865.....147
3422867.....152
3422936.....12, 15, 20
3423081.....21
3450304.....175, 183
3450608.....13, 17
3450808.....12, 16
3480188.....223, 235
3480210.....227
3480253.....233
3480255.....243
3480274.....243
3510696.....163
3510714.....163
3510716.....163

3510717 163
3510725 163
3510742 163
3510749 163
3510753 163
3510754 163
3510774 163
3510822 167
3510830 167
3510831 167
3510832 167
3510833 167
3520028 ... 131, 133, 134, 176, 181
3520054 182
3520072 ..... 163, 167
3520172 163
3520173 176
3520174 183
3520189 139
3536089 ..... 164, 168
3538819 177
3539275 ..... 116, 120
3539685 163
3539719 171
3570607 87
3570800 87
3570801 87
3570808 ..... 88, 96
3571019 81
3571222 ..... 176, 182
3571692 ..... 81, 87, 96
3571795 243
3571818 52
3571833 52
3572003 115
3572032 ..... 51, 52
3572041 69
3572165 145
3572200 145
3572345 145
3572502 81
3572503 81
3572504 83
3572506 55
3572827 120
3573400 ..... 203, 213
3573641 203
3573642 213
3573643 203
3573667 ..... 81, 87, 96
3574091 173
3574163 137
3574210 48
3574235 16
3574253 81
3574254 ... 11, 12, 15, 19, 20
3574259 81
3574264 81
3577121 213
3580134 ..... 131, 134
3580158 133
3580276 134
3580315 131
3580316 138
3580317 138
3580318 138
3580320 138
3600279 .. 81, 87, 96, 107
3600296 ..... 81, 87, 101
3600297 ..... 87, 105
3600368 ..... 81, 87, 105
3600385 81, 87, 101, 103
3600404 ..... 81, 95, 103
3600405 ..... 81, 95, 105
3600423 107
3620033 ..... 88, 96
3620034 209
3620046 81
3641182 ..... 115, 177
3641533 140
3730023 265
3730099 265
3740049 ... 116, 120, 176, 178, 260, 267, 278, 296
3740057 ... 116, 177, 178, 260
3740058 176
3740063 176
3740066 .... 116, 177, 178
3740067 .. 81, 88, 96, 296
3740080 ..... 81, 131, 134, 137, 298
3740112 115
3740113 175
3740115 175
3760133 ..... 147, 151
3760170 ..... 55, 69
3760308 175
3760367 ..... 221, 239
3760368 227
3760369 ..... 223, 235
3760371 233
3760436 243
3780182 21
3790012 ... 121, 123, 176, 178, 182, 183
3790045 26
3790109 175
3790152 ..... 81, 89, 95
3820001 ..... 55, 286, 289, 293
3820020 167
3841143 ..... 16, 143, 147, 151, 152
3841203 52
3841258 ... 11, 12, 15, 19, 20, 143
3841340 47, 48, 148, 152
3841367 .... 12, 16, 20, 21
3841442 13
3841520 ..... 12, 15, 20
3841619 16
3900109 ... 12, 13, 16, 20, 21
3900139 233
3900141 227
3900205 167
3900224 ..... 175, 182
3900232 127
3900255 ..... 82, 89, 94
3900283 ..... 144, 159
3900295 16
3900296 16
3910606 137
3910608 116
3910610 ..... 139, 177
3910804 ..... 116, 120
3911008 ..... 163, 167
3911040 123
3930816 124
3931028 124
3931412 177
3931448 243
3931516 .... 221, 227, 239, 243
3931620 ..... 223, 235
3931664 175
3931672 ..... 175, 183
3931824 233
3932224 69
3941405 171
3960389 ..... 81, 128
3960407 ..... 89, 96
3960438 ..... 116, 121, 127
3960461 123
3960469 82
3960525 111
3990001 ..... 209, 264, 275
3990010 .... 260, 264, 265, 267, 268, 273, 278, 296
3990108 165
3990109 ..... 164, 165
4032015 137
4060802 .... 131, 134, 137, 168, 183, 208
4060803 ..... 112, 163
4060805 ..... 128, 145
4060808 145
4060906 ..... 115, 120
4060907 123
4060919 145
4060950 ..... 13, 21
4060959 301
4060978 .... 11, 12, 15, 19, 20
4060979 47
4060980 47
4060981 47
4060995 ..... 148, 151
4061010 128
4061048 16
4061054 159
4070450 55
4070497 .... 81, 83, 88, 94, 96, 147, 151
4070498 .... 81, 83, 88, 94, 96, 147, 151
4070501 ..... 147, 151
4070502 ..... 147, 151
4070503 ..... 147, 151
4070504 ..... 147, 151
4070560 55
4070561 55
4070929 ..... 147, 151
4070972 19
4070973 ..... 11, 15, 19
4070987 ..... 116, 120
4070991 116
4071002 ..... 11, 15, 19
4071007 ..... 148, 151
4100099 233
4100100 227
4120012 .... 116, 177, 178
4120013 177
4120035 ... 177, 264, 265, 274
4130368 21
4130369 21
4130405 21
4130406 21
4160182 128
4220165 163
4240018 137
4240032 123
4240033 159
4240099 ..... 89, 164, 168, 173, 203, 213
4240112 111
4240135 111
4280295 111
4300048 55
4300157 139
4340678 ..... 175, 182
4340684 ..... 175, 182
4360031 .... 164, 167, 182
4360057 ..... 171, 173
4360070 139
4360232 ... 176, 183, 279, 296
4360294 ..... 88, 134
4360314 .... 115, 176, 178
4360321 ..... 124, 277
4360322 ..... 124, 277
4360328 ... 120, 182, 183, 296
4360331 .... 176, 182, 296
4360336 ... 123, 131, 134, 137, 168, 183, 208, 298
4360387 ... 175, 182, 183, 296
4360392 ..... 81, 88, 96
4360407 .... 175, 182, 296
4360470 .... 115, 120, 296
4360475 ... 115, 120, 175, 182, 296
4360476 ... 115, 120, 176, 182, 296
4360495 59
4360542 133
4360548 .... 124, 277, 298
4360549 .... 124, 277, 298
4360578 124
4400423 111
4400429 111
4400450 ..... 111, 112
4420037 .... 168, 203, 213
4420038 ... 111, 115, 176, 177
4420051 ..... 55, 293
4420055 163
4420060 124
4420062 217
4420068 ..... 171, 173
4460007 182
4460023 ..... 131, 134
4460027 133

PART NUMBER INDEX

4460049.....171, 173
4460051.....137
4460071....137, 164, 168, 182, 272
4460125.....267
4460190.....133
4460224.....265, 266
4460225.....264, 265, 272
4460226....159, 165, 182, 192, 201, 272, 273, 275, 276, 277, 279
4460227....272, 273, 274, 278
4460234....116, 120, 123, 173, 176, 177, 182
4460265....185, 192, 201, 264
4460266.....185, 266
4460267....185, 264, 265, 267, 274, 277, 278
4460268....124, 185, 265, 266, 267, 274, 275, 278
4460320....265, 267, 274, 278
4460321.....278
4460326.....264, 267, 277
4460374.....139
4460375.....139
4460411.....139
4460412.....139
4460413.....139
4460414.....139
4460415.....140
4460418....264, 265, 272, 273
4460419....264, 265, 272, 273
4460420.....264, 265
4460424....123, 266, 267, 275, 278, 279
4460425.....139, 279
4460426....115, 139, 265, 279
4460428....115, 120, 125, 176, 178, 182, 264, 265, 267, 272, 273, 277
4460434.....272, 274
4460442.....267
4460445.....265, 274
4460457.....266, 275
4460458.....266, 275
4460464....182, 264, 272, 273, 275
4460465....139, 159, 264, 265, 266, 273, 274, 275
4460466.....159, 265, 273
4460467....176, 268, 279, 303
4460470....120, 176, 182, 264, 272, 273
4460471....120, 176, 182, 264, 272, 273
4460473.....264, 265, 273
4460488.....176, 182
4460499.....67, 265, 266, 267, 277
4460502.....264
4460503..... 177, 264
4460508.... 264, 272, 274
4460509..... 265, 273
4460510... 176, 268, 279, 303
4460526... 115, 120, 265, 273
4460536..... 274
4460539..... 275
4460589..... 266
4460591..... 266
4460598... 164, 168, 183, 267, 279
4460600..... 115, 177
4460601..... 115, 177
4460602..... 115, 177
4460603..... 115, 177
4460607.... 115, 140, 177
4460608..... 266, 267
4460613..... 177, 264
4460614..... 265
4460628..... 115
4460629..... 177
4460630..... 116
4460631..... 115, 177
4460632..... 177
4460634.... 264, 265, 274
4460635..... 264, 265
4460693..... 266
4460705..... 278
4460708.... 182, 272, 276
4460711..... 116, 266
4460720..... 264
4460721..... 264
4460741.... 209, 264, 265
4460742..... 266, 275
4460761... 159, 272, 273, 274
4460777..... 266
4460834..... 266, 275
4460836... 159, 265, 266, 274, 275
4460837... 265, 266, 274, 275
4460842..... 266, 275
4460865..... 273
4460866..... 272, 273
4460871... 187, 189, 197, 199, 272, 273, 274, 275, 277, 279
4460873..... 272, 274
4460874.... 120, 272, 273
4460875.... 120, 272, 273
4460876..... 273
4460878..... 274
4460879..... 272
4460880..... 274, 275
4460887.... 272, 274, 275
4460889..... 275
4460890..... 275
4460891..... 275
4460892..... 276
4460894..... 276
4460905... 120, 182, 272, 273, 274
4460906..... 278
4460933..... 159
4460943..... 274
4460944..... 275
4460956..... 140
4460957..... 140
4460961..... 278
4460967..... 139
4460968..... 125, 277
4460993..... 275
4460994..... 275
4461001..... 140
4461005..... 276
4461006..... 276
4461008..... 276
4461052..... 276
4461053..... 276
4461054..... 276
4461060..... 276
4461070..... 275
4461071..... 276
4461072..... 276
4461073..... 276
4461074..... 276
4461095..... 275
4520171..... 26
4520212..... 26
4520216..... 26
4520224..... 52
4520234..... 52
4520240..... 26
4520259..... 26
4530016..... 209
4530020..... 209
4530022..... 213
4530025..... 203, 205
4530028..... 213, 215
4558765..... 82
4566425..... 243
4566468..... 223, 235
4566471..... 227
4567139..... 255
4567462..... 12, 15, 20
4567495..... 88, 96
4568743..... 81
4569176..... 82
4620128..... 69
4620141..... 69
4640113..... 26, 52
4640261..... 55
4640509... 223, 225, 227, 229, 231, 233
4640744..... 82, 105, 256
4640751..... 89, 96
4640858..... 221
4640871..... 12, 15, 20
4640921..... 59, 67
4640932..... 223, 225
4641033..... 243
4641062..... 227
4641076.... 249, 252, 256
4641107..... 47, 48
4641108..... 59
4641114..... 243
4641115..... 47, 48
4641117..... 59, 63
4641144..... 233
4641162..... 221
4641164..... 209
4641207.....48
4641208.....48
4641272.....82
4641282.....249, 252, 256
4641499.....59, 63
4711000.....176
4711400....12, 15, 20, 52, 94, 124, 137, 159, 164, 168, 171
4711500 55, 82, 137, 175, 183
4711600.....82, 124, 139, 143, 144, 145, 148, 151, 152, 159
4711800.....137
4711900.....89
4712400.....16
4713000.....13, 16
4740076.....123
4740086.....13, 16, 21
4740120.....128, 176, 182
4740155.....16
4740158....11, 12, 15, 19, 20
4740274...82, 87, 96, 123
4740362....123, 128, 164, 168, 182
4740397.....134, 183, 209
4740411.....163
4740439.....152
4740444.....115
4740491.....16
4740500.....128
4740537.....20
4740538.....20
4740539.....20
4740540.....20
4740546.....123
4750600.....115, 139
4750800.....116, 121
4751000..47, 82, 88, 111, 115, 120, 123, 131, 134, 138, 163, 167, 176, 182, 213
4751400....59, 60, 82, 83, 87, 94, 96, 116, 120, 121, 124, 128, 138, 148, 151, 159, 164, 168, 171, 173, 176, 182, 203, 209, 213, 286, 289, 293
4751500....47, 48, 59, 82, 83, 89, 94, 96, 128, 131, 134, 137, 145, 159, 171, 173, 209, 217
4751600....11, 12, 15, 19, 20, 47, 48, 59, 82, 88, 94, 96, 111, 128, 131, 134, 144, 147, 151, 164, 168, 176, 182, 203, 213, 243
4751800....13, 16, 21, 55, 69, 82, 89, 96, 144, 168, 171, 173, 176, 209
4751900.....134
4752000....12, 15, 20, 55, 82, 89, 94

4752200 ..... 82, 89, 94
4760600 ..... 116, 139
4761000 ... 116, 163, 167, 176, 183
4761400 ... 120, 148, 151, 165, 176
4761600 ... 11, 12, 19, 20, 47, 111
4791400 ..... 97, 138
4791500 59
4791600 ..... 89, 94, 96
4812000 165
4812200 96
4821397 173
4831900 ..... 91, 97
4832000 ..... 91, 97
4844815 152
4844816 152
4844817 152
4844958 69
4845288 163
4845395 ..... 89, 96
4845426 163
4845531 134
4845582 217
4845950 302
4845951 163
4846069 ..... 19, 20
4846070 21
4846072 ..... 11, 12
4846080 ..... 87, 97
4846092 128
4846095 128
4846096 ..... 83, 89, 94
4846100 128
4846110 128
4846111 128
4846112 52
4846113 52
4846114 52
4846126 52
4846128 143
4846137 ..... 147, 152
4846186 144
4846213 209
4846216 144
4846231 209
4846263 ..... 147, 152
4846390 171
4846393 52
4846394 52
4846426 15
4846452 167
4846478 ..... 87, 134
4846506 302
4846550 ..... 19, 20
4846551 ..... 11, 12
4846561 168
4846567 ..... 87, 97, 134
4846571 203
4846573 .... 148, 153, 159
4846627 213
4846673 173
4846801 15
4846802 16
4846809 ..... 87, 97
4846821 82
4846852 82
4860198 26
4860213 26
4860214 26
4860215 52
4860218 52
4891600 . 82, 88, 95, 148, 153, 159
4891800 ... 26, 51, 52, 69, 148, 153, 159
4892000 ..... 26, 69, 159
4892200 ..... 12, 15, 20
4892600 ... 148, 153, 155, 159
4920018 164
4921850 268
4921927 ..... 59, 267, 277
4921938 267
4922012 304
4922021 268
4922099 276
4922304 260
4922340 .... 177, 260, 264
4922346 ..... 115, 265
4922347 .... 115, 265, 266
4922349 ..... 115, 265
4922375 264
4922376 265
4922387 264
4922388 265
4922393 .... 177, 260, 264
4922403 268
4922433 267
4922442 209
4922482 278
4922483 278
4922484 278
4922485 ..... 121, 273
4922498 279
4922537 .... 120, 274, 275
4922538 ..... 120, 274
4922540 ..... 121, 273
4922547 273
4922548 273
4922636 276
4922637 276
4922641 ..... 139, 278
4922643 278
4922664 .... 120, 121, 273
4922665 .... 182, 260, 272
4922666 ... 121, 182, 272, 273
4922705 159
4922714 ..... 125, 277
4922737 82
4922757 139
4922764 278
4922766 261
4922769 ..... 125, 277
4922802 272
4922803 273
4922829 303
4922869 159
4922880 ..... 120, 274
4922925 138
4922940 278
4922965 ..... 168, 279
4922978 ..... 94, 277
4923234 ..... 120, 274
4923236 ..... 120, 273
4923260 ..... 120, 274, 275
4923261 ..... 121, 273
4923356 ..... 120, 274
4923451 ..... 97, 277
4923456 ..... 120, 273
4932917 260
4932980 ..... 178, 261
4932989 267
4933025 260
4933026 260
4933027 261
4933127 265
4933151 261
4933153 260
4933154 260
4933157 260
4933175 260
4933177 ..... 261, 274, 276
4933189 260
4933190 260
4933191 ..... 260, 278
4933192 261
4933193 261
4933217 260
4933219 260
4933230 ..... 261, 274, 276
4933237 261
4933238 260
4933239 ..... 260, 278
4933240 261
4933264 ..... 137, 139
4933265 261
4933279 ..... 261, 274, 276
4933300 ..... 260, 278
4933307 260
4933313 261
4933325 ..... 261, 274, 276
4933335 ..... 261, 274, 276
4933353 ..... 261, 274, 276
70000122 133
70000123 ..... 131, 133
70000124 ..... 131, 133
70000125 ..... 131, 133
70000126 ..... 131, 133
70000127 133
70000264 90
70000342 156
70000345 98
70000544 83
70000619 138
70000787 91
70000797 43
70000851 90
70000856 39
70000863 138
70000916 97
70000969 107
70000970 107
70000971 107
70000972 107
70000973 107
70000975 107
70000976 107
70000977 108
70000978 ..... 107, 108
70001002 90
70001017 81
70001100 138
70001180 83
70001181 98
70001256 63
70001257 83
70001384 138
70001385 138
70001423 97
70001695 83
70001697 156
70001863 112
70001941 123
70001953 138
70001966 138
70001972 138
70001973 138
70001974 138
70001976 64
70001990 ..... 83, 298
70001994 144
70001995 144
7000206 35
70002088 138
7000209 75
7000217 75
70002224 ..... 225, 237
70002234 90
70002235 ..... 131, 133
70002240 133
70002255 138
70002257 103
7000228 75
7000229 ..... 35, 75
70002290 138
70002297 138
7000230 ..... 35, 75
7000232 35
7000246 ..... 35, 75
70002460 138
7000248 35
7000253 ..... 35, 75
7000255 75
7000256 75
7000257 ..... 35, 75
7000258 ..... 35, 75
7000261 35
7000262 35
7000263 35
7000269 75
7000270 75
70002724 199
70002725 199
70002726 199
70002727 199
70002728 199
70002729 199
70002730 189
70002731 189
70002732 189
70002733 189
70002734 189
70002735 189
70002768 112
7000281 75

PART NUMBER INDEX

70002818.....139
70002819.....139
70002820.....139
70002821.....139
70002822.....140
70002823.....140
70002824.....140
70002825.....140
70002826.....140
70002906.....189
70003039.....91
70003040.....91
70003041.....91
70003479.....98
70003480.....98
70003481.....98
70003483.....168
70003708.....138
70003709.....138
70003784.....175
70003838.....225, 237
70003839.....225, 237
70003848.....225, 237
70003856.....225, 237
70003932.....90, 98
70004128.....225
70004129.....237
70004136.....225, 237
70004137.....225
70004138.....225
70004139.....237
70004140.....237
70004170.....138
70004738.....201
70004739.....201
70004740.....201
70004741.....201
70004742.....201
70004743.....201
70004744.....201
70004745.....201
70004746.....201
70004747.....201
70004748.....201
70004749.....201
70004750.....201
70004751.....201
70004752.....191
70004753.....191
70004754.....191
70004755.....191
70004756.....191
70004757.....191
70004758.....191
70004759.....191
70004760.....191
70004761.....191
70004762.....191
70004763.....191
70004764.....191
70004765.....191
70004766.....191
70004767.....191
70004768.....191
70004769.....191
70004770.....191
70004771.....191
70004772.....191
70004773.....191
70004774.....192
70004775.....192
70005230.....201
70005483.....36
7000625.....164, 168
70006268.....144
70006277.....144
70006568.....229
70006569.....229
70006570.....229
70006571.....229
70006572.....229
7000663.....90, 97
70006649.....231
70006650.....231
70006734.....231
70006735.....231
70006736.....231
7000722.....73
7000723.....73
7000724.....73
7000725.....73
7000731.....36, 73
7000782.....73
7000798.....73
7000974.....107
7001481.....102
7001485.....101
7001988.....75
7001998.....35
7002107.....77
7002110.....77
7002111.....77
7002112.....77
7002117.....77
7002125.....77
7002239.....133
70023915.....229
7002821.....268, 279, 303
7002822.....303
7002823.....268, 279, 303
7002826.....303
7002828.....268, 279
7002840.....12, 15, 20
7003049.....73
7003050.....73
7003078.....73
7003094.....73
7003452.....73
7003453.....73
7003454.....73
7003457.....73
7003459.....73
7003462.....73
7003928.....185, 187, 189
7003933.....197
7003935.....195, 197
7003941.....195, 197, 199
7003946.....195, 197
7003952.....185
7003953.....185, 187
7003956.....185
7003969.....195, 197
7003972.....195, 197, 199
7003973.....195, 197, 199
7003974.....185
7003976.....185, 187
7003977.....185, 187
7003980.....195, 197, 199
7003982.....199
7003983.....195, 197, 199
7003986.....197
7003989.....195, 197, 199
7003992.....185, 187, 195, 197
7003993.....185, 187, 195, 197
7003994.....197
7004275.....303
7004276.....303
7006137.....144
7006140.....144
7006151.....144
7006152.....144
7007289.....103
7007412.....102
7007419.....101
7007437.....40, 44
7007438.....39, 43
7007439.....39, 43
7007446.....39, 43
7007470.....101, 102
7007497.....277
7007498.....277
7007601.....35
7007633.....75
7007640.....35
7007933.....73
7007990.....73
7008833.....266
7008836.....266
7009992.....77
7009995.....77
7009996.....77
7009998.....77
7010429.....35
7010488.....75
7010494.....75
7010542.....47, 48, 63
7010543.....47, 48, 59, 63
7011016.....107
7011044.....107
7011067.....107
7011112.....223, 225
7011323.....155
7012513.....131, 133
7012514.....131, 133
7012518.....59, 63
7012519.....52
7012520.....52
7012521.....52
7012522.....52
7012523.....52
7012664.....80, 88, 96, 296
7012693.....12, 15, 20
7012770.....67
7012772.....64, 67, 296
7012773.....63, 64, 67
7012775.....64
7012776.....67
7012777.....67
7012799.....64
7012914.....63
7012918.....63
7012930.....47, 48
7012941.....59
7012943.....59, 296
7012944.....59, 63, 296
7012953.....67
7012965.....67
7012967.....47, 48, 63, 233, 243
7012975.....63
7012995.....59
7012998.....63, 67
7013187.....69
7013701.....107
7013711.....107
7013757.....107
7013766.....107
7013771.....107
7014801.....112
7014802.....112
7014810.....111
7014812.....112
7014813.....112
7014816.....112
7014900.....77
7016180.....88
7016314.....112
7016330.....90
7016331.....90, 97, 298
7016332.....90
7016336.....266
7016359.....90
7016360.....52
7016380.....123
7016399.....168
7016505.....144
7016524.....144
7016628.....123
7016654.....303
7016655.....303
7016680.....111
7016744.....107
7016745.....107
7016746.....107
7016768.....107
7016769.....107
7016803.....88
7016817.....88
7016820.....81, 88, 95
7016833.....88
7016834.....81, 88, 95
7016835.....81, 88, 95
7016843.....81, 88, 95
7017059.....35
7017064.....75
7017065.....75
7017066.....75
7017067.....35
7017070.....35
7017080.....35
7017090.....35
7017091.....35
7017092.....35
7017093.....35
7017094.....35
7017095.....35

7017097 35
7017125 155
7017136 155
7017137 155
7017138 156
7017139 155
7017140 155
7017142 156
7017148 155
7017158 155
7017159 156
7017162 155
7017163 155
7017164 155
7017172 155
7017192 155
7017195 155
7017410 63
7017411 63
7017412 ..... 47, 48
7017421 67
7017422 ..... 63, 67
7017427 63
7017428 63
7018612 73
7018900 64
7018912 ..... 64, 67
7018942 ..... 64, 67
7018945 67
7018991 ..... 64, 296
7019103 ..... 195, 197
7019110 ..... 195, 197
7019111 ... 185, 187, 195, 197
7019112 ..... 195, 197
7019114 197
7019115 ..... 195, 197
7019117 195
7019122 ..... 185, 187
7019123 ..... 185, 187
7019137 185
7019141 ..... 185, 187
7019142 ..... 185, 187
7019143 ..... 185, 187
7019144 ..... 185, 187
7019145 ..... 185, 187
7019147 ..... 185, 187
7019149 ..... 185, 187
7019150 ..... 185, 187
7019151 ..... 195, 197
7019153 195
7019154 ..... 195, 197
7019155 ..... 195, 197
7019156 195
7019157 195
7019158 195
7019159 195
7019160 ..... 195, 197
7019161 ..... 195, 197
7019162 .... 195, 197, 199
7019163 195
7019164 .... 195, 197, 199
7019165 .... 195, 197, 199
7019166 .... 195, 197, 296
7019167 .... 195, 197, 199
7019168 ..... 195, 197
7019171 ..... 185, 187
7019174 ..... 185, 187
7019177 187
7019181 176
7019194 .... 195, 197, 199
7019197 ..... 185, 187
7019680 133
7020020 59
7020023 ..... 90, 97, 298
7020024 90
7020025 90
7020026 ..... 90, 97
7020027 90
7020033 ..... 13, 16
7020034 ..... 13, 16
7020035 ..... 13, 16
7020036 ..... 13, 16
7020037 ..... 13, 16
7020038 ..... 13, 16
7020039 ..... 13, 17
7020040 ..... 13, 17
7020041 ..... 13, 17
7020042 ..... 13, 17
7020043 111
7020054 ..... 13, 17
7020055 ..... 13, 17
7020099 175
7020100 175
7020108 ..... 131, 133
7020109 ..... 131, 133
7020110 ..... 131, 133
7020111 ..... 131, 133
7020168 90
7020169 ..... 90, 98
7020175 ... 115, 120, 176, 182
7020176 ... 115, 120, 176, 182
7020180 ..... 12, 20
7020190 ..... 131, 133
7020191 ..... 131, 134
7020192 ..... 131, 134
7020193 ..... 131, 133
7020226 ..... 111, 112
7020252 111
7020343 77
7020352 77
7020353 77
7020356 77
7020357 77
7020359 77
7020362 77
7020408 ..... 90, 97
7020411 ..... 90, 97
7020446 90
7020447 97
7020449 ..... 90, 97
7020458 ..... 90, 98, 298
7020459 98
7020460 98
7020461 ..... 90, 98
7020463 90
7020464 ..... 90, 97
7020465 ..... 90, 97
7020467 91
7020468 ..... 91, 97
7020471 ..... 90, 97
7020477 90
7020479 ..... 90, 97
7020480 90
7020482 91
7020488 91
7020495 97
7021237 101
7021238 101
7021239 101
7021240 101
7021242 101
7021243 101
7021248 101
7021249 ..... 40, 43, 101
7021250 101
7021251 101
7021254 101
7021255 ..... 101, 102
7021257 101
7021258 101
7021259 101
7021260 101
7021263 102
7021264 102
7021265 102
7021268 102
7021269 102
7021270 102
7021271 102
7021272 102
7021273 102
7021274 102
7021275 ..... 39, 43, 102
7021276 ..... 39, 43, 102
7021277 ..... 39, 43, 102
7021278 102
7021279 102
7021280 103
7021281 102
7021283 101
7021284 101
7021288 102
7021290 102
7021291 102
7021292 102
7021294 102
7021296 103
7021297 103
7021298 103
7021299 103
7021325 ..... 29, 31
7021326 ..... 29, 31
7021327 ..... 29, 31
7021328 ..... 29, 31
7021329 ..... 29, 32
7021330 ..... 29, 32
7021335 31
7021337 ..... 29, 31
7021338 ..... 29, 32
7021339 29
7021340 ..... 29, 32
7021341 31
7021342 ..... 29, 31
7021344 ..... 29, 32
7021346 ..... 29, 31
7021347 ..... 29, 31
7021349 31
7021351 31
7021352 31
7021354 32
7021355 32
7021356 32
7021357 32
7021358 32
7021359 32
7021365 63
7021373 ..... 63, 64
7021374 64
7021375 ..... 63, 64
7021376 ..... 63, 64, 296
7021625 ..... 47, 48
7021647 63
7021648 63
7021654 ..... 47, 48
7021655 ..... 47, 48
7021656 ..... 47, 48
7022302 ..... 39, 43
7022305 ..... 39, 43
7022306 ..... 39, 43
7022307 ..... 39, 43
7022309 ..... 39, 43
7022310 ..... 39, 43
7022311 ..... 39, 43
7022312 ..... 39, 43
7022313 39
7022314 ..... 39, 43
7022318 40
7022321 40
7022326 ..... 40, 44
7022328 ..... 40, 44
7022340 101
7022341 101
7022342 101
7022346 102
7022347 102
7022363 209
7022366 39
7022367 40
7022368 ..... 40, 43
7022369 ..... 40, 44
7022370 40
7022371 ..... 40, 44
7022372 ..... 40, 44
7022373 101
7022374 101
7022375 101
7022376 101
7022377 101
7022378 101
7022379 101
7022380 101
7022381 101
7022382 102
7022383 102
7022384 102
7022385 102
7022386 102
7022387 102
7022397 48
7022399 48
7022544 ..... 29, 32
7022545 ..... 29, 32
7022547 32
7022548 32
7022549 32

PART NUMBER INDEX

7022551.....32
7022808.....185, 187, 189
7022812.....197
7022813.....185
7022814.....187
7022815.....187, 189
7022816.....187
7022817.....187
7022818.....187, 296
7022819.....187, 189, 277
7022822.....197
7022823.....197
7022824.....197, 277, 296
7022825.....277
7023205.....111, 112, 296
7023206.....59
7023207.....59
7023251.....209
7023252.....209
7023253.....209
7023254.....209
7023255.....209
7023256.....209
7023257.....209
7023258.....209
7023259.....209
7023260.....209
7023261.....209
7023262.....209
7023264.....209
7023265.....209
7023266.....209
7023267.....209
7023306.....111, 112
7023331.....165
7023332.....164
7023333.....165
7023413.....208
7023414.....208
7023415.....208
7023416.....208
7023417.....208
7023418.....208
7023419.....209
7023420.....210
7023421.....210
7023422.....210
7023423.....210
7023424.....210
7023425.....210
7023426.....210
7023427.....210
7023428.....210
7023444.....209
7023445.....209
7023446.....209
7023447.....209
7023448.....210
7023449.....210
7023802.....105
7023811.....105
7023812.....105
7023813.....105
7023814.....105
7023815.....105
7023820.....105
7023821.....64
7023822.....64
7023823.....64
7023824.....64
7023907.....39, 43
7023908.....39, 43
7023910.....39, 43
7023917.....48
7023934.....48
7023935.....48
7023936.....48
7024017.....32
7024026.....32
7024100.....75
7024182.....36
7024189.....36
7024190.....36
7024191.....36
7024192.....36
7024193.....36
7024194.....36
7024195.....36
7024196.....36
7024197.....36
7024313.....209
7024315.....209
7024316.....209
7024317.....210
7024318.....90
7024319.....116, 120
7024320.....116, 120
7024436.....210
7024439.....112
7024440.....112
7024441.....112
7024442.....112
7024443.....112
7024444.....112
7024445.....112
7024446.....112
7024452.....123
7024462.....215
7024463.....215
7024464.....215
7024465.....215
7024466.....215
7024467.....215
7024468.....215
7024469.....215
7024470.....215
7024471.....215
7024472.....215
7024473.....215
7024474.....215
7024475.....215
7024476.....215
7024477.....215
7024478.....215
7024479.....215
7024484.....138
7024485.....138
7024486.....138
7024488.....138
7024489.....138
7024508.....243
7024520.....205
7024522.....205
7024524.....205
7024526.....205
7024527.....205
7024528.....205
7024529.....205
7024530.....205
7024531.....205
7024532.....205
7024533.....205
7024534.....205
7024535.....205
7024536.....205
7024537.....205
7024538.....205
7024539.....205
7024540.....205
7024541.....205
7024559.....210
7024561.....138
7024565.....90, 98
7024579.....90, 98
7024705.....36
7024712.....35
7024713.....35
7024714.....35
7024715.....36
7024716.....36
7024717.....36
7024718.....36
7024800.....102
7024804.....102
7024852.....40
7024853.....40, 44
7024854.....40, 44
7024855.....101
7024856.....101
7024857.....101
7024858.....101
7024868.....39, 43
7024962.....105
7024980.....32
7026113.....237
7026188.....138
7026597.....138
7026608.....97
7026626.....138
7026835.....84
7026836.....84
7026840.....83
7026843.....84
7026846.....83
7026847.....83
7026848.....83
7026849.....83
7026850.....83
7026851.....84
7026852.....83
7026854.....84
7026855.....83, 298
7026856.....83
7026857.....83
7026858.....83
7026859.....84
7026860.....83
7026861.....84
7026862.....84
7026863.....83
7026864.....83
7026865.....83
7026866.....83
7026867.....83
7026868.....83
7026869.....83
7026870.....83
7026871.....83, 298
7026872.....83
7026873.....83
7026874.....83
7026875.....83
7026878.....83
7026879.....83
7026880.....84
7026881.....84
7026882.....83
7026883.....84
7026884.....84
7026885.....84
7026886.....84
7027236.....97
7027239.....98
7027241.....97
7027245.....98, 298
7027246.....97
7027250.....90
7027276.....90, 98
7027419.....40, 43
7027608.....97
7027609.....97
7027610.....97
7027769.....97
7027773.....215
7027774.....215
7027776.....215
7027777.....215
7027778.....215
7027779.....215
7027780.....215
7027790.....98
7027791.....97
7027792.....98
7027793.....97, 277
7027794.....98, 277
7027795.....97, 298
7027796.....97, 276
7027799.....138
7027858.....127
7027887.....131, 134
8180311.....81
8896941.....303



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