



PARTS MANUAL

LOAD KING

19-70

WARNING Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.

INSTRUCTIONS FOR ORDERING PARTS

When ordering parts, contact your nearest Load King distributor and give the following information to assure prompt service:

MACHINE IDENTIFICATION:

State the model and Product Identification Number (PIN), located on the plate in the Operator's Cab.

The six digit serial number is shown on a plate on the outside front of the operator's cab for convenient access.



PART IDENTIFICATION:

State the part number, description and quantity required. Do not use the item number. Avoid using the words "Pairs" or "Sets".

REF	PART.NO.	DESCRIPTION
	T139803	Mirror, Convex 1

SHIPPING INSTRUCTIONS:

State the invoicing address. Unless otherwise specified, invoices will be mailed to the shipping address.

State the correct shipping address and the means of shipment: parcel post, air mail, air freight, UPS, bus, etc.

INVOICE TO

Custom Truck One Source
7701 Independence Avenue,
Kansas City, MO 64125

SHIP TO

Custom Truck One Source
7701 Independence Avenue,
Kansas City, MO 64125

USING THIS PARTS BOOK

This Parts Manual has been designed for optimum ease of reading and is the key to Customer-Distributor-Factory communication. Genuine replacement parts, along with interchangeable product improvements as they become available, will keep your machine in a reliable and productive condition.

The following instructions describe the features of the manual and how to use it effectively.

Use this manual also as a supplement to the Operator's Manual and Maintenance Manual when performing service procedures on the machine.



IMPORTANT

This manual lists serviceable parts for **EVERY** machine built of this model designation. Serial numbers are used to identify parts when a product improvement is made or an alternate component is used. **KNOW THE SERIAL NUMBER OF YOUR MACHINE** before searching for replacement parts.

The **PARTS CHAPTER INDEX** shows the functional arrangement of associated parts for the machine. A chapter number identifies the same chapter of parts regardless of model (Chapter 2 is always the Lower Structure). The chapters which apply to the machine are listed in numerical order.

PAGE NUMBERS are in numerical sequence within each parts chapter.

EXPLODED VIEW ILLUSTRATIONS show the relationship of assembled parts. The illustrations are keyed to an accompanying parts list on the same page or on the facing page and are positioned for ease in reading the manual.

LOCATING INDIVIDUAL PARTS

1. Turn to the PARTS CHAPTER INDEX and find the general area of the part in question. (Example: Seat would be found in "Operator's Cab" chapter 1).
2. Refer to the parts chapter and check to see if a subsequent letter-designated chapter is used. Check the title block on the pages to determine the application of the chapter to your particular machine.

ENGINE	2
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FILTER	5
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3. Major assemblies are shown at the beginning of each chapter with page references to component parts breakdowns on the pages which follow. Briefly skim through the chapter to familiarize yourself with the information included in it. Locate the illustration and parts list which pertain to the assembly or part you desire. Compare the serial number of your machine to those which may appear on the page to be sure you are ordering the correct part.
4. Item numbers on the illustration correspond to those in the parts list. Parts not shown with an item number are the same as identical or symmetrical parts with an item number. Parts keyed with an asterisk or other symbol are included in a repair kit. If no part number is shown, these parts cannot be ordered separately.
5. Quantities are shown as required per component assembly unless otherwise noted.
6. If an assembly is listed without any serviceable parts, it must be ordered complete. Serviceable parts of components are listed under the component part or a subsequent page as indicated.
7. All hardware shown without the size listed after the noun name is specially made for the particular application and must not be substituted with standard hardware.

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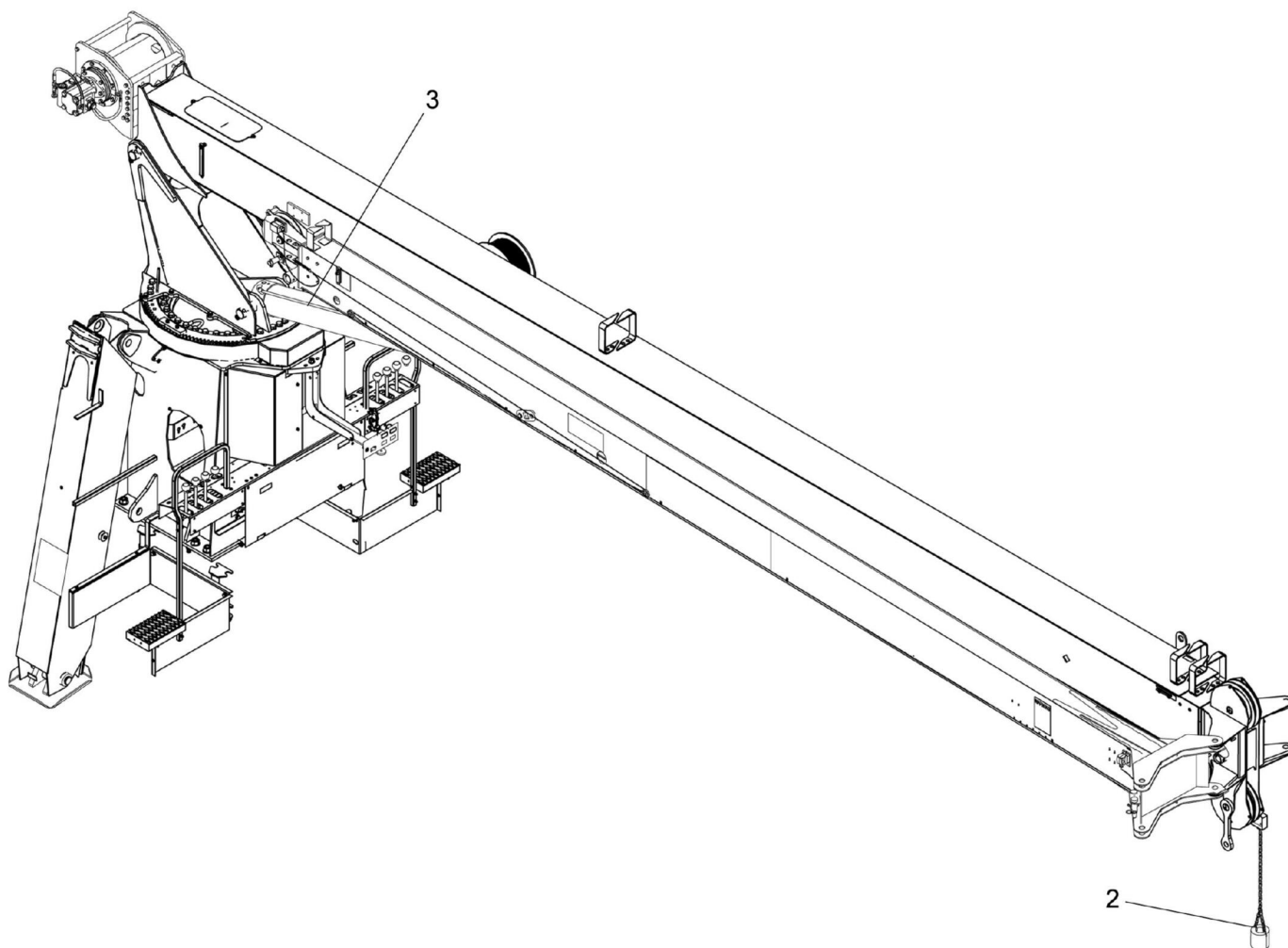
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CHAPTER NO. 1

19-70 UPPER STRUCTURE



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



19-70 UPPER STRUCTURE

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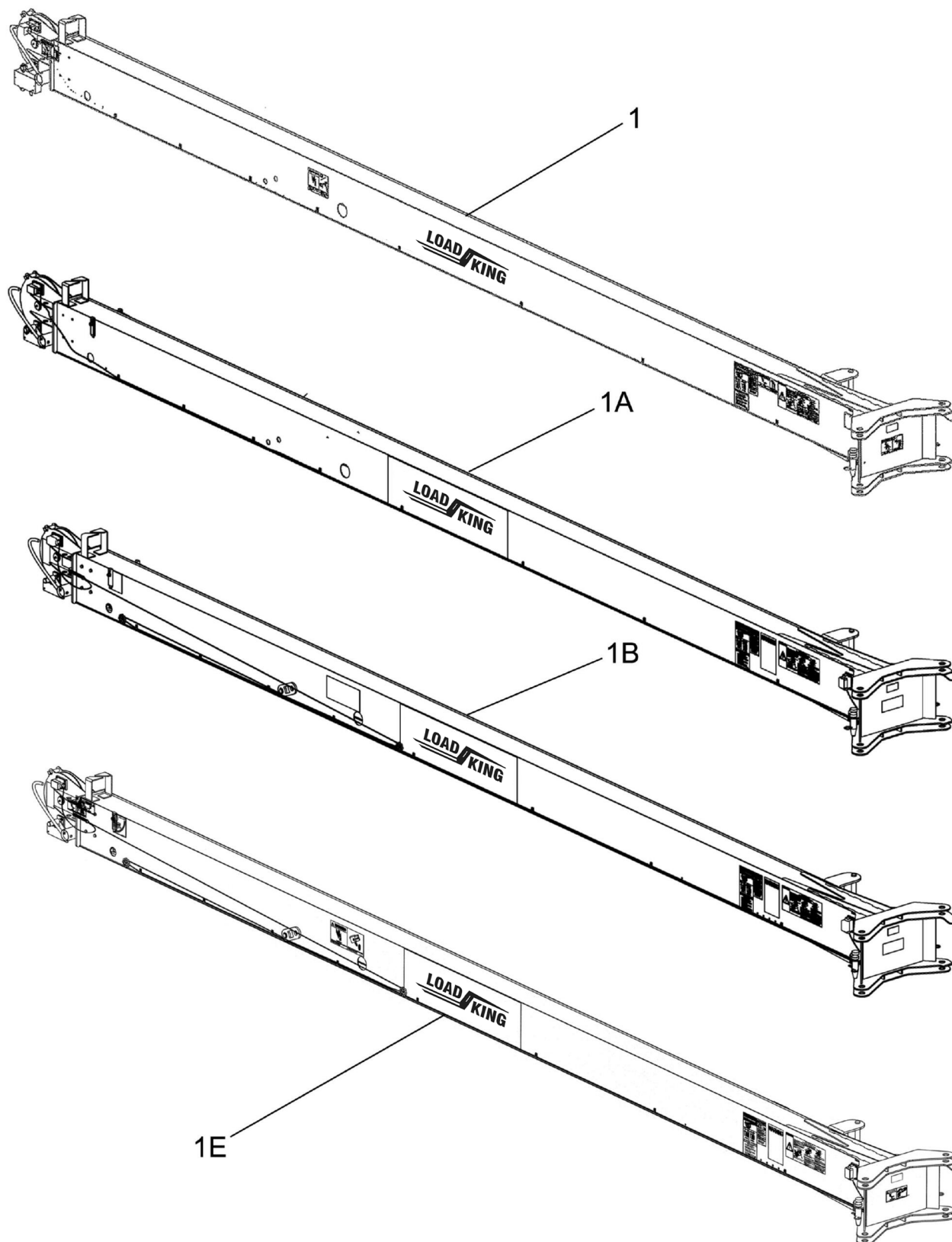
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	19-70-UPR-STR (Rev. 00)	<i>19-70 UPPER STRUCTURE</i>	
1**	19-70-JIB-OPT*	Jib Options (see page 19)	REF
2	19-70-HK/LD BALLS & ROPE*	Hook Block, Load Balls & Wire Rope Options (see page 42)	REF
3	500-01833-01	HYD Install, 19-70, NON CON-CF (see page 57)	1
3A	500-01833-02	HYD INSTL, 19-70, NON CON - MS (see page 168)	1
3A	500-01833-02	HYD Install, 19-70, NON CON-MS (see page 197)	1
3B	500-01833-03	HYD INSTL, 19-70, CON - CF (see page 202)	1
3B	500-01833-03	HYD INSTL, 19-70, CON - CF (see page 221)	1
3C	500-01833-04	HYD INSTL, 19-70, CON - MS (see page 224)	1
4**	400-14032-1	Throttle Instl Option (see page 239)	1
4A	400-14032-4	Throttle Instl Option (see page 241)	1
5**	T129697	Swing Cut-Out Kit (see page 243)	1

* NOT PURCHASABLE AT THIS LEVEL

** NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB OPTIONS

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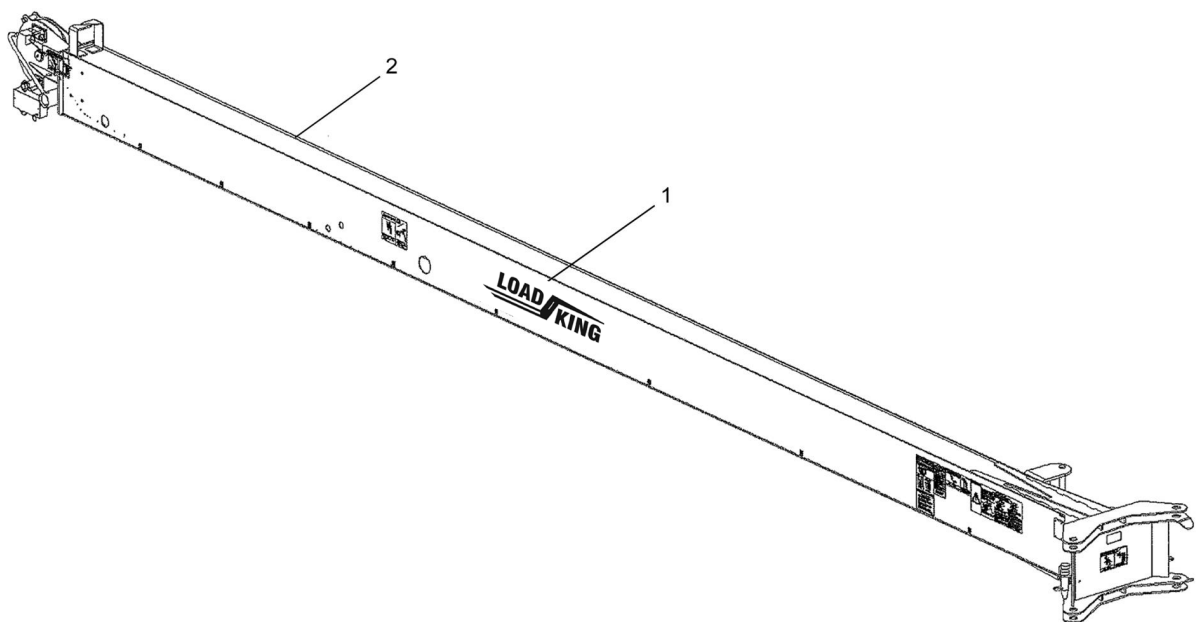
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	19-70-JIB-OPT* (Rev. 00)	<i>Jib Options</i>	
1	730-51364	Jib Assembly, One Stage, White Decal (see page 21)	1
1.1	655-00017	Decal INSTL, Jib - White LOAD KING (see page 22)	1 . . .
1.2	730-51354	Jib Assembly 24 FT-1 Stage (see page 24)	1
1A	730-51363	Jib Assembly, One Stage, Black Decal (see page 28)	1
1A.1	655-00016	Decal INSTL, Jib - Black LOAD KING (see page 29)	1 . . .
1A.2	730-51354	Jib Assembly 24 FT-1 Stage (see page 24)	1
1B	730-51361	Jib Assembly, Two Stage, Black Decal (see page 31)	1
1B.1	655-00016	Decal INSTL, Jib - Black LOAD KING (see page 29)	1 . . .
1B.2	730-51353	Jib ASSY 24-40 FT-2 ST (see page 35)	1
1C	730-51361-P4	Jib ASSY-Two Stage, BLK Decals, Red	1
1C.1	655-00016	Decal INSTL, Jib - Black LOAD KING (see page 29)	1 . . .
1C.2	730-51353-P4	Jib ASSY - Two Stage, Red	1
1D	730-51361-P23	Jib ASSY-Two Stage, BLK Decals, Green	1
1D.1	655-00016	Decal INSTL, Jib - Black LOAD KING (see page 29)	1 . . .
1D.2	730-51353-P23	Jib ASSY - Two Stage, Green	1
1E	730-51362	Jib Assembly, Two Stage, White Decal (see page 38)	1
1E.1	655-00017	Decal INSTL, Jib - White LOAD KING (see page 22)	1 . . .
1E.2	730-51353	Jib ASSY 24-40 FT-2 ST (see page 32)	1
2**	730-51355	Jib Installation (see page 39)	1

* NOT PURCHASABLE AT THIS LEVEL
** ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	JIB OPTIONS	DATE: Released 09-2017	CHAPTER 1
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51364 (Rev. A)	<i>Jib Assembly, One Stage, White Decal</i>	
1	1007066	Decal INSTL, Jib - White (see page 22)	1
2	730-51354	Jib Assembly 24 FT-1 Stage (see page 24)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB ASSEMBLY - SINGLE STAGE

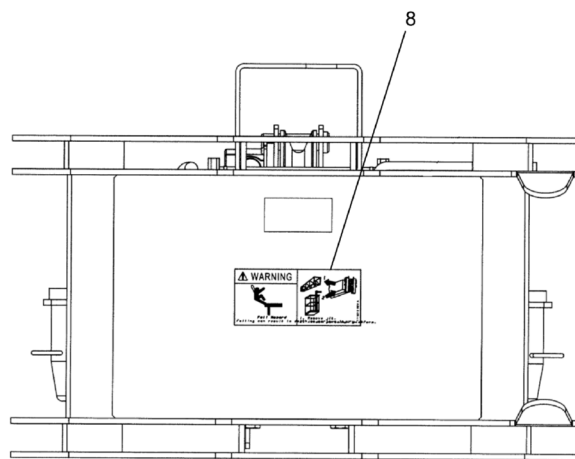
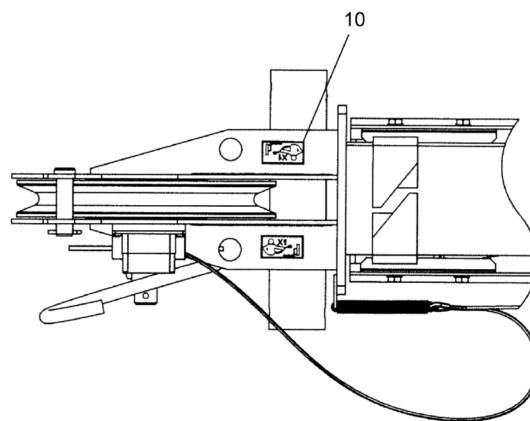
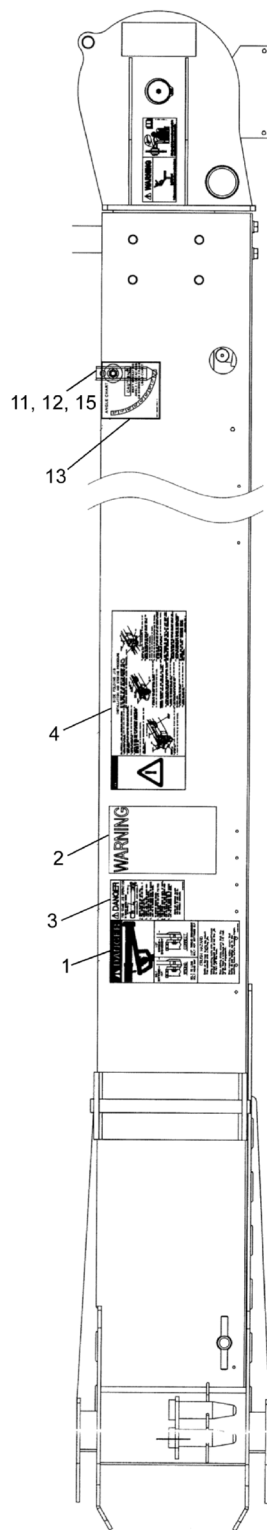
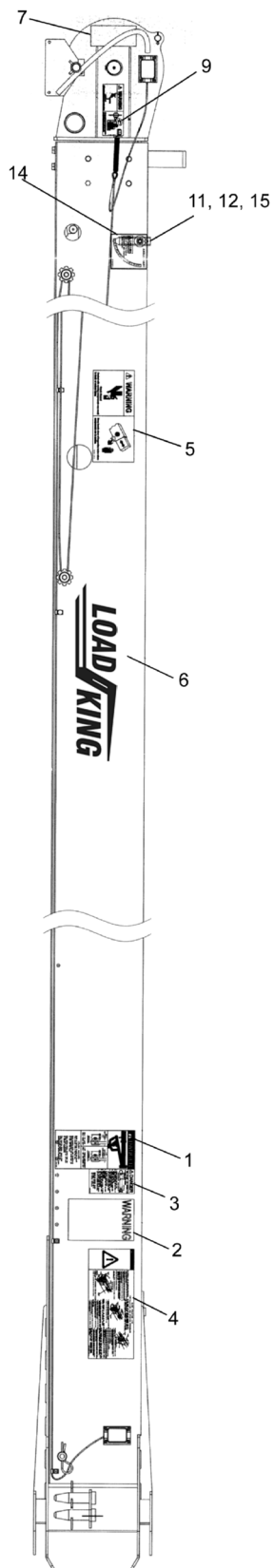
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, JIB - WHITE LOAD KING

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00017 (Rev. C)	<i>Decal INSTL, Jib - White</i>	
1	651-00371	Decal - Crush Hazard Jib	2
2	651-00416	Decal - Safe Elevated Access	2
3	652-00132	Decal - Jib Operation, 2 Stage	2
4	1006871	Decal - Jib INSTL, Side Folding	2
5	653-00411	Decal - Crush/Cut Hazard	2
6	1007066	Decal - LOAD KING Logo (White) 5.4" Crown	2
7	1007053	Safety Stripe 2.5 X 5.5	2
8	T118213	Decal, Jib Removal	1
9	T118214	Decal, Lanyard Hook Location	2
10	T127341	Decal, Lanyard Hook	4
11	729-02579	Angle Pointer	2
12	WAR-375X000-22	WSH, FL, TYP A-REG 0.375, ST SQC G2	2
13	651-00367	Decal Angle Chat R.H.	1
14	651-00366	Decal Angle Chat L.H.	1
15	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, JIB - WHITE LOAD KING

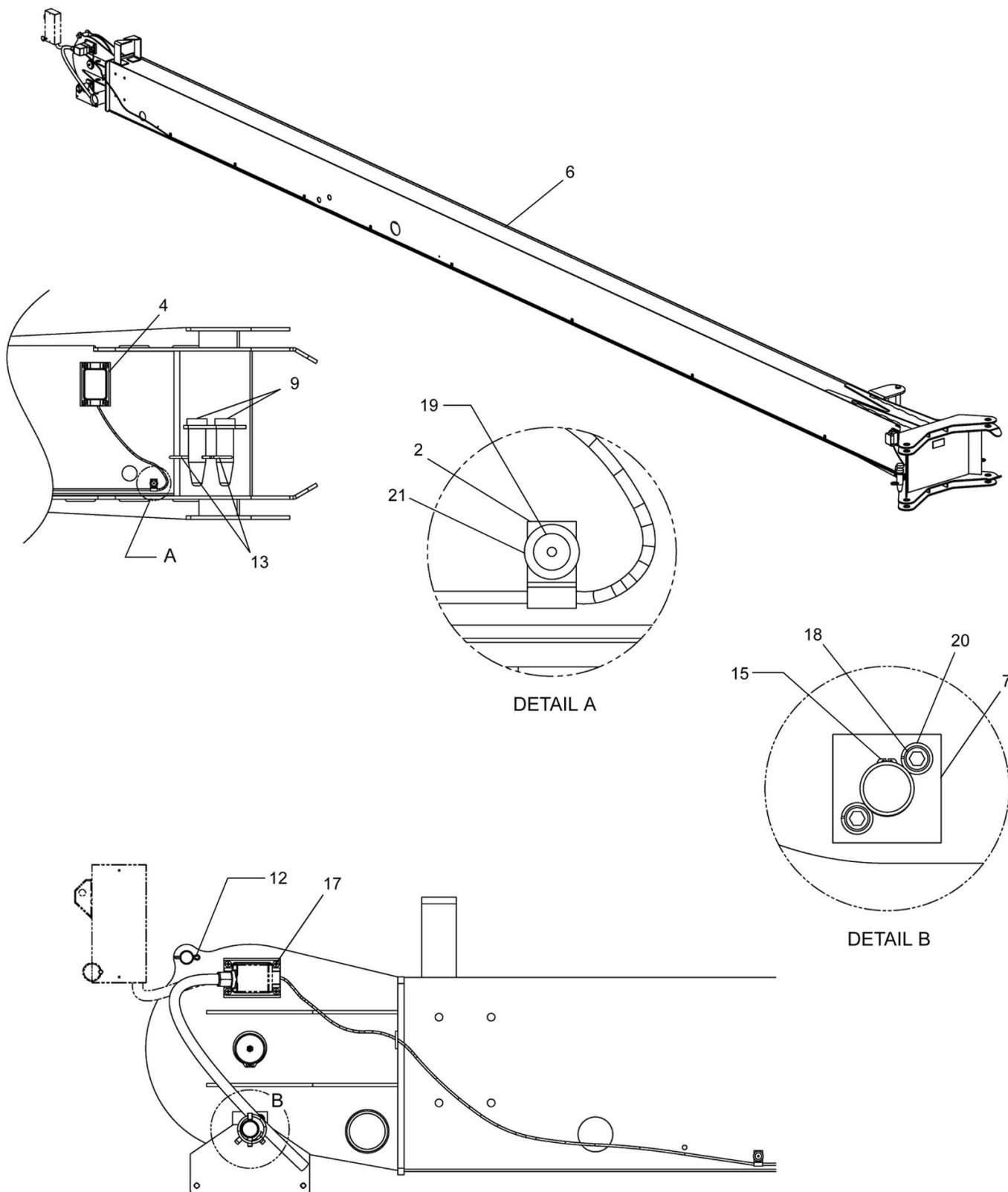
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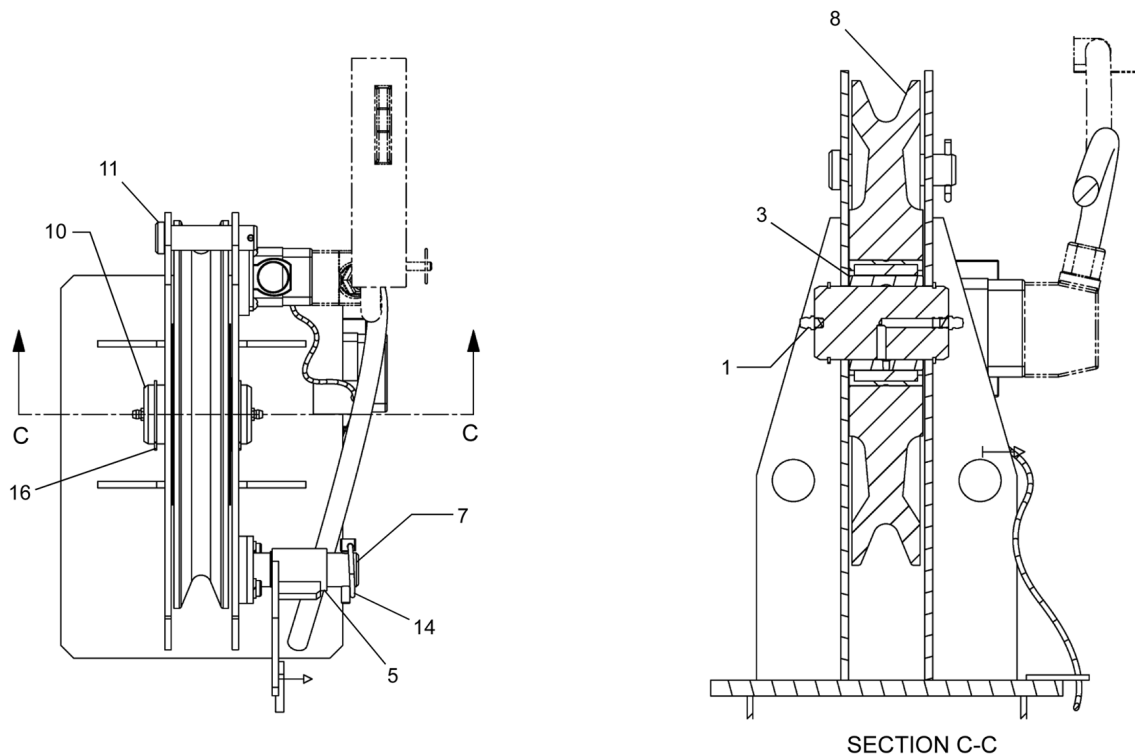
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB ASSEMBLY, 24FT - 1 STAGE

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51354 (Rev. F)	<i>Jib Assembly 24 FT-1 Stage</i>	
1	1213-7	Grease FTG, Zerk, 0.25-28 STR	2
2	201-00171	Clamp 0.125 DIA Tube	9
3	274-30004	Bearing, Inner Race, 1.75 Shaft	1
4	400-25212	LMI Harness ASSY-1 ST	1
5	729-02729	Bracket Weldment, LMI-ATB Switch	1
6	730-51359	Jib Base Weldment-1 Stage	1
7	774-00054	Adapter Bracket, ATB SW	1
8	860-40050	Sheave Assembly (see page 27)	1
9	870-30221	Pin 1.281 DIA, Jib Install	4
10	870-50058	Pin, Sheave 1.749 X 3.188	1
11	P01-750XB75-P0	Pin, Clevis 0.75 X 2.75, STL	1
12	P02-156XA00-20	Pin, Cotter 0.1562 X 1.00, ST SQC	1
13	PHP-178XC75-20	Pin, CTRHAIR 0.178 X 3.75 X 1.03, ST SQC	4
14	PLP-250XA56-20	Pin, LYNCH 0.25 X 1.562, ST Z	1
15	REX-875X042-BP	Ring, EXTSNP 0.875X0.042, ST BPH	1
16	REX-A75X062-BP	Ring, EXTSNP 1.75 X 0.062, ST BPH	2
17	SD1-190C375-20	SCR, CREC RND MS 10-24 X 0.375, ST Z	8
18	SLH-312C625-BX	SCR, LSHCS 0.312-18 X 0.625, ST BX	2
19	VBB187X450-L5	RVT, BTNHD, BLND 0.187X0.45, AL	9
20	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	2
21	WAR-216X000-22	WSH, FL TYPA-REG 12, ST SQC G2	9

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB ASSEMBLY, 24FT - 1 STAGE

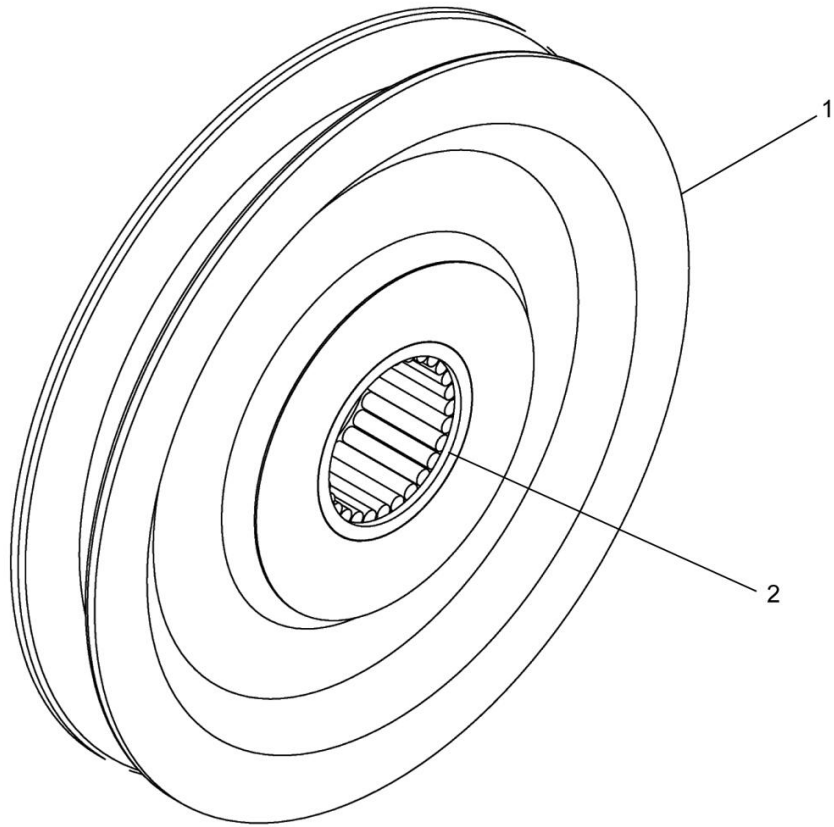
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	860-40050 (Rev. B)	<i>Sheave Assembly</i>	
1	860-40051	Load Sheave	1
2	273-50002	Roller Bearing Outer Race (McGILL MR-36)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SHEAVE ASSEMBLY

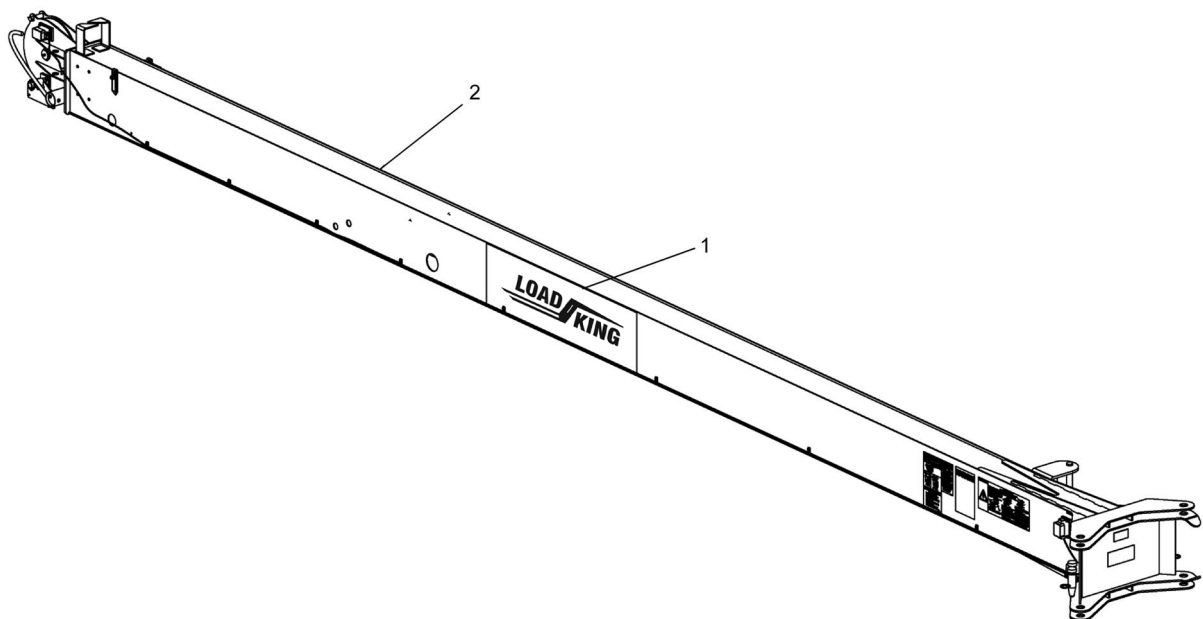
DATE: Released 07-2013

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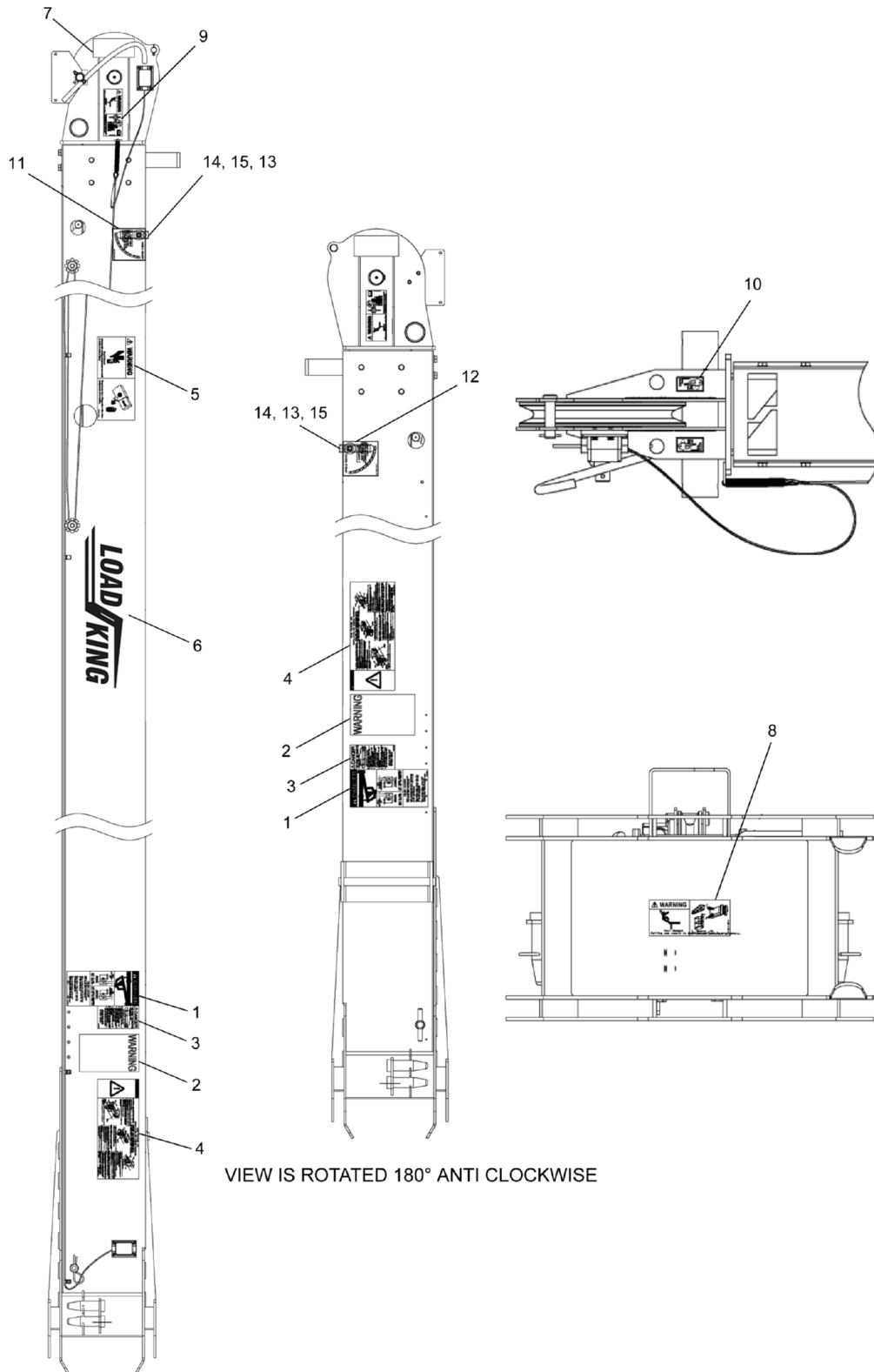
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51363 (Rev. B)	<i>Jib Assembly, One Stage, Black Decal</i>	
1	1007066	Decal INSTL, Jib - Black LOAD KING (see page 29)	1
2	730-51354	Jib Assembly 24 FT-1 Stage (see page 24)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	JIB ASSEMBLY - SINGLE STAGE	DATE: Revised 12-2013	CHAPTER 1
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VIEW IS ROTATED 180° ANTI CLOCKWISE

VIEW IS ROTATED 90° CLOCKWISE

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, JIB - BLACK LOAD KING

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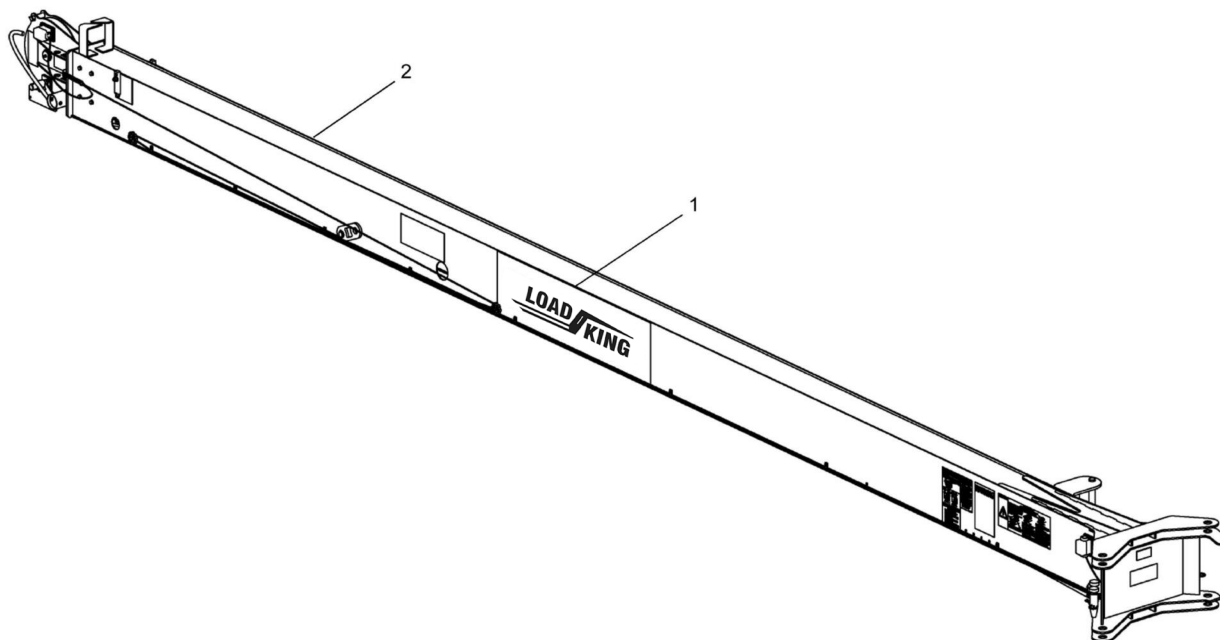
CHAPTER

1

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00016 (Rev. C)	<i>Decal INSTL, Jib - Black</i>	
1	651-00371	Decal - Crush Hazard Jib	2
2	651-00416	Decal - Safe Elevated Access	2
3	652-00132	Decal - Jib Operation, 2 Stage	2
4	1006871	Decal - Jib INSTL, Side Folding	2
5	653-00411	Decal - Crush/Cut Hazard	2
6	1007066	Decal - LOAD KING Logo (Black) 5.4" Crown	2
7	1007053	Safety Stripe 2.5 X 5.5	2
8	T118213	Decal, Jib Removal	1
9	T118214	Decal, Lanyard Hook Location	2
10	T127341	Decal, Lanyard Hook	4
11	651-00366	Decal Angle Chat L.H.	1
12	651-00367	Decal Angle Chat R.H.	1
13	WAR-375X000-22	WSH, FL, TYPA-REG 0.375, ST SQC G2	2
14	729-02579	Angle Pointer	2
15	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

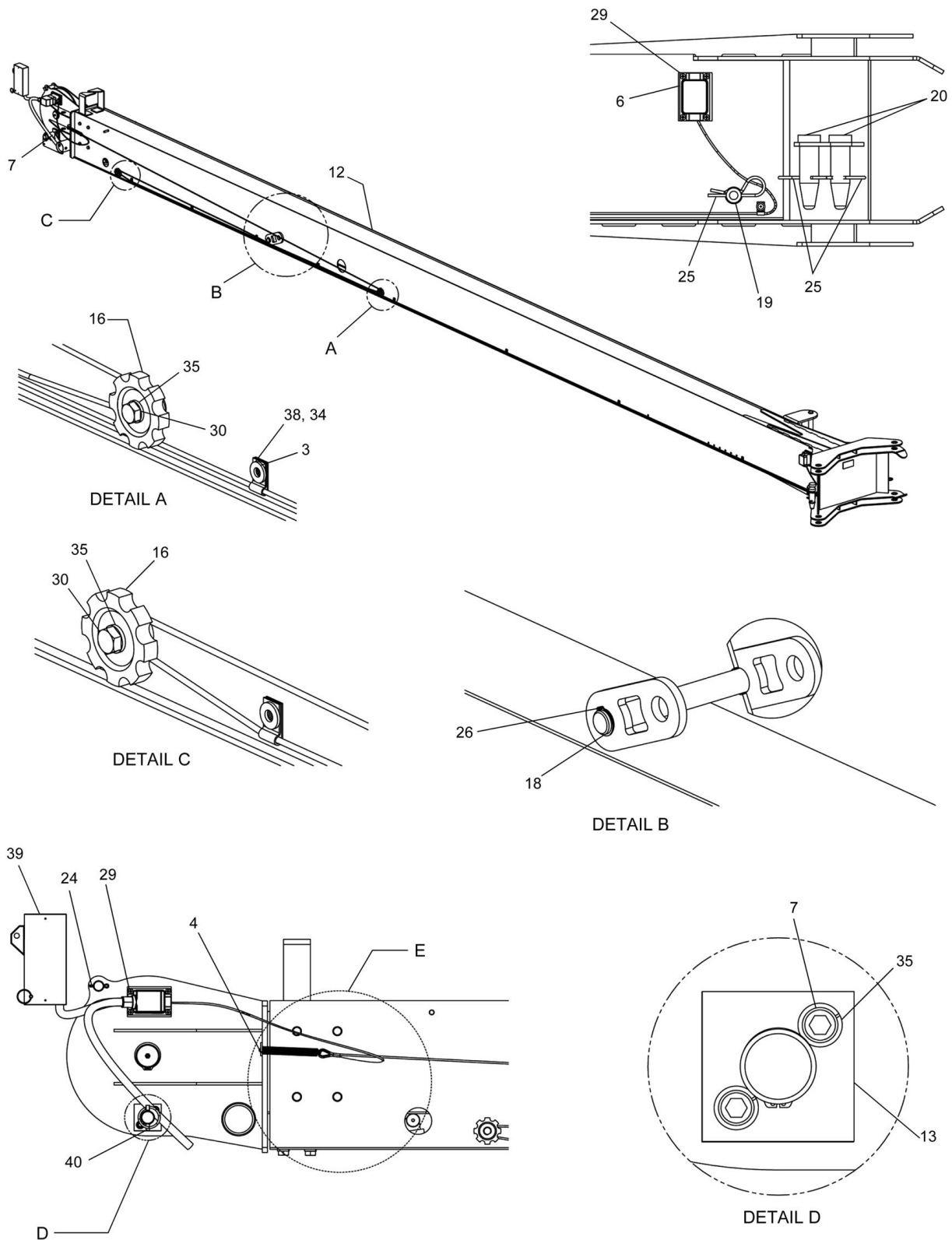
	MARKING DECALS, JIB - BLACK LOAD KING	DATE: Revised 12-2013	CHAPTER 1
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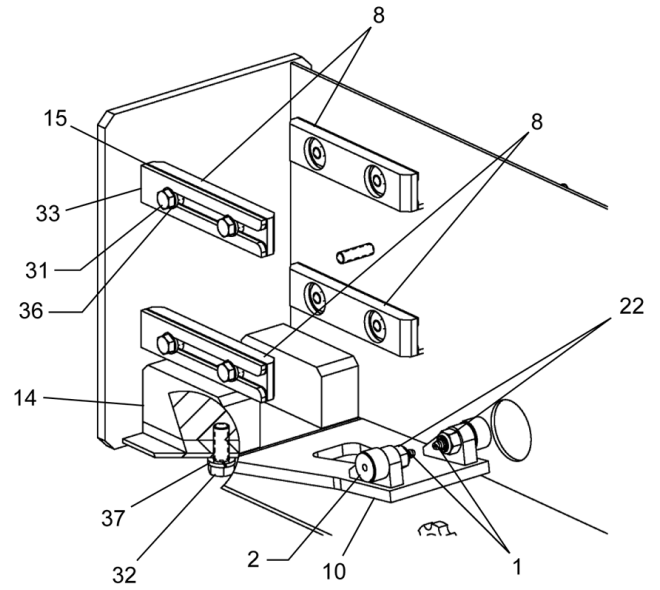
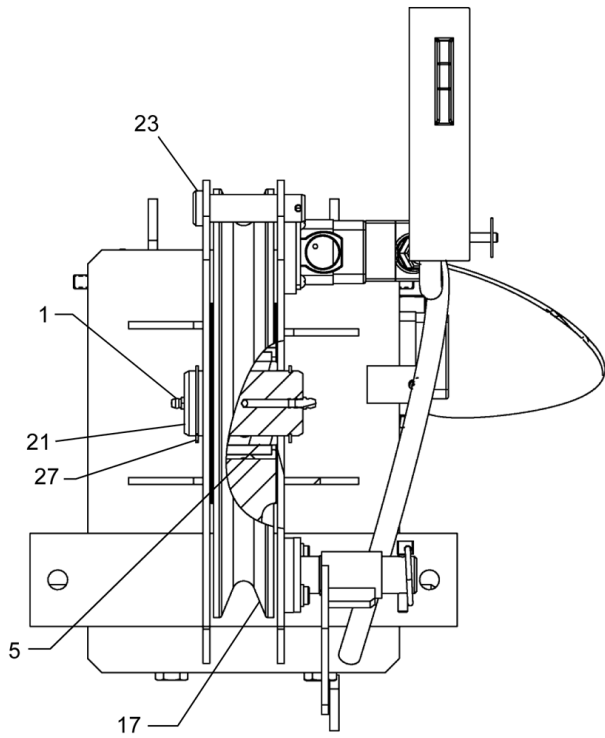
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51361 (Rev. C)	<i>Jib Assembly, Two Stage, Black Decal</i>	
1	1007066	Decal INSTL, Jib - Black LOAD KING (see page 29)	1
2	730-51353	Jib ASSY 24-40 FT-2 ST (see page 32)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

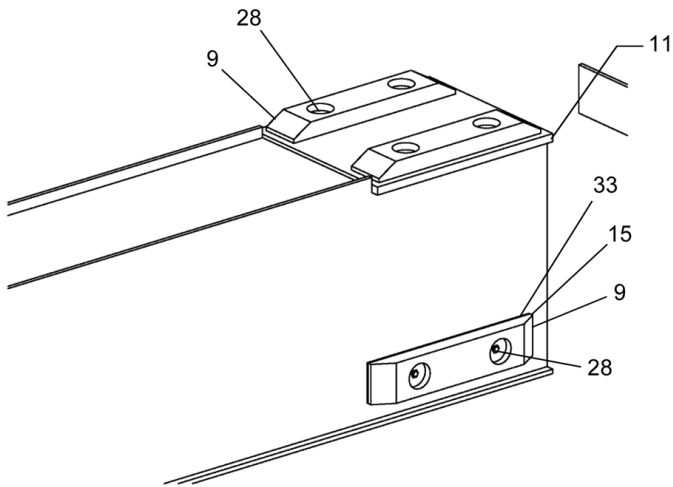
	JIB ASSEMBLY - SINGLE STAGE	DATE: Revised 02-2015	CHAPTER 1
		MODEL: 19-70	
		PAGE: 31	



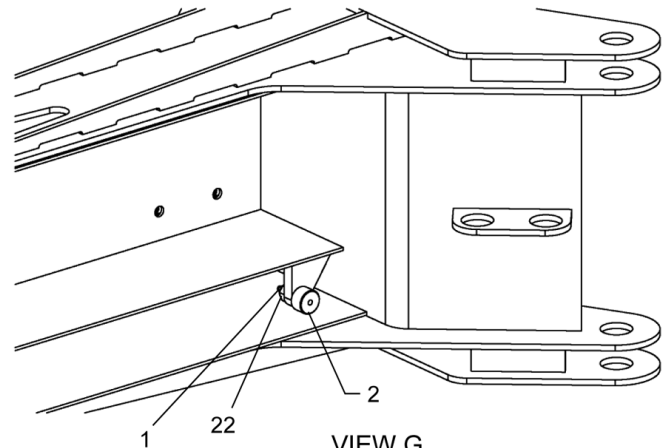
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



VIEW E



VIEW F



VIEW G

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB ASSEMBLY, 24 - 40FT - 2 STAGE

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51353 (Rev. J)	Jib ASSY 24-40 FT-2 ST	
1	1213-7	Grease FTG, Zerk, 0.25-28 STR	6
2	1217-49	Cam Follower	4
3	201-00171	Clamp 0.125 DIA Tube	9
4	202-10066	Spring, Cable Tension	1
5	274-30004	Bearing, Inner Race, 1.75 Shaft	1
6	400-25104	LMI Harness Assy-2 ST	1
7	SLH-312C625-BX	SCR, LSHHCS 0.312-18 X 0.625, ST BX	2
8	729-02862	Wear Pad 6.00 X 1.25 X 0.50	4
9	729-02872	Wear Pad 6.00 X 1.25 X 0.50	4
10	730-51351	Support Weldment, Roller	1
11	730-51358	Jib Stinger Weldment	1
12	730-51360	Jib Base Weldment	1
13	774-00054	Adapter Bracket, ATB SW	1
14	783-03719	Block 4.00 X 2.00 X 1.50	2
15	787-00329	Shim 6.00 X 1.25 X 0.048	6
16	808-00047	Knob, Hand	2
17	860-40050	Sheave Assembly (see page 27)	1
18	870-20227	Pin, Retaining 1.00 X 8.00	1
19	870-20268	Pin Assy, Jib Stinger Retaining	1
20	870-30221	Pin 1.281 DIA, Jib Install	4
21	870-50058	Pin, Sheave 1.749 X 3.188	1
22	NYL-438F000-Y8	Nut, HX NY-INS 0.438-20, ST SQC G8	4
23	P01-750XB75-P0	Pin, Clevis 0.75 X 2.75, STL	1
24	P02-156XA00-20	Pin, Cotter 0.1562 X 1.00, ST SQC	1
25	PHP-178XC75-20	Pin, CTRHAIR 0.178 X 3.75 X 1.03, ST SQC	5
26	REX-A00X042-BP	Ring, EXTSNP 1.00 X 0.042, ST BPH	2
27	REX-A75X062-BP	Ring, EXTSNP 1.75 X 0.062, ST BPH	2
28	S16-375C875-20	SCR, FHHCS 0.375-16 X 0.875, ST SQC	8
29	SD1-190C375-20	SCR, CREC RND MS 10-24 X 0.375, ST Z	8
30	SHF-312CA00-25	SCR, HHCS FT 0.312-18 X 1.00, ST SQC G5	2
31	SHF-375C750-Y8	SCR, HHCS FT 0.375-16 X 0.75, STYZG8	8
32	SHF-500CA38-Y8	SCR, HHCS FT 0.50-13 X 1.375, ST SQC G8	4
33	T116216	Wear Pad Shim, .1875 THK	6
34	VBB-187X450-L5	RVT, BTNHD, BLND 0.187 X 0.45, AL	9
35	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	4
36	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	8
37	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
38	WAR-216X000-22	WSH, FL TYP A-REG 12, ST SQC G2	9
39	861-90434	ATB Switch, HVY Duty	Ref
40	PLP-250XA56-20	Pin, LYNCH 0.25 X 1.562, ST Z	Ref

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB ASSEMBLY, 24 - 40FT - 2 STAGE

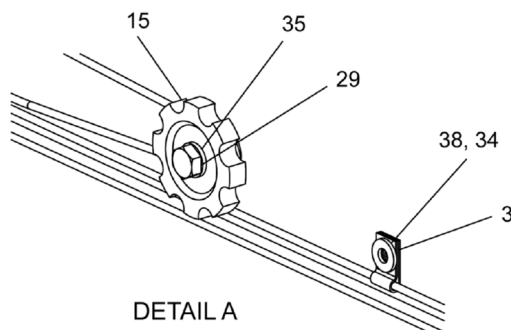
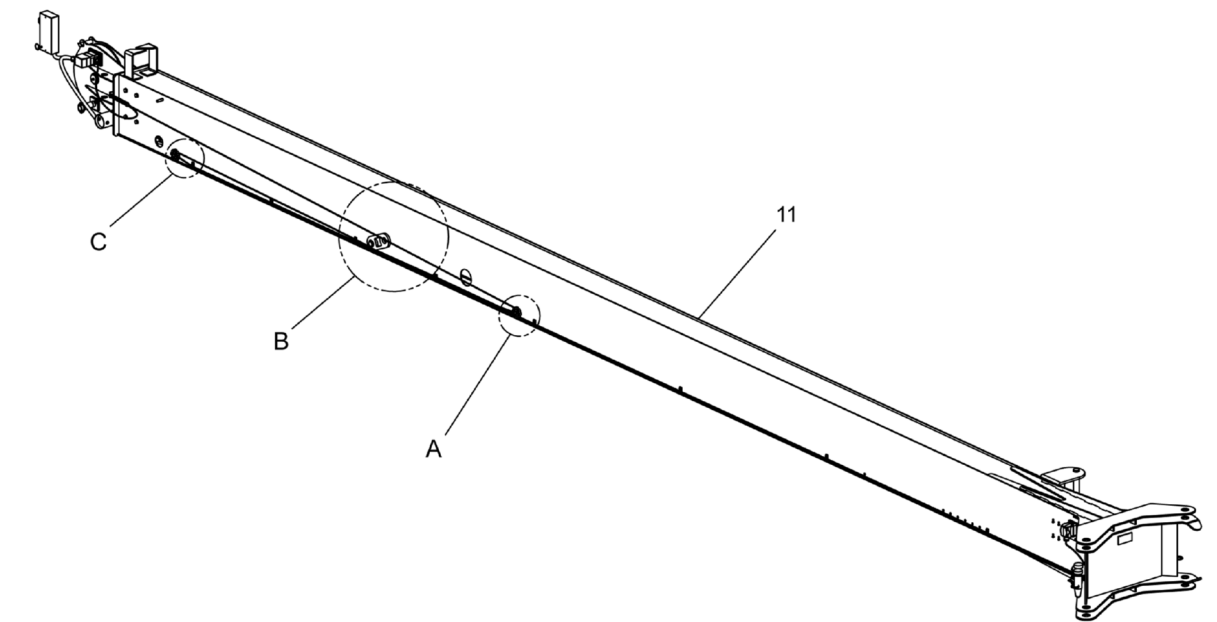
DATE: Revised 02-2015

MODEL: 19-70

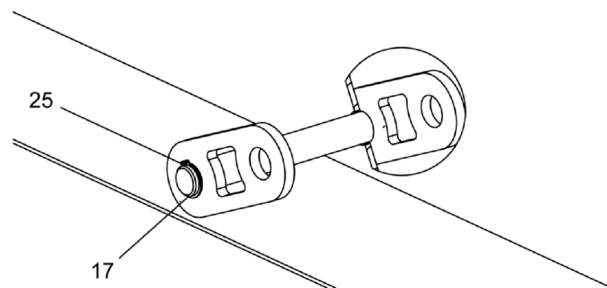
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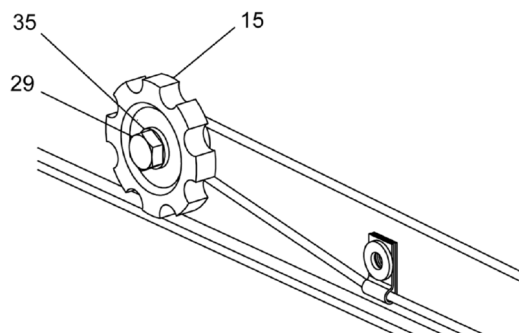
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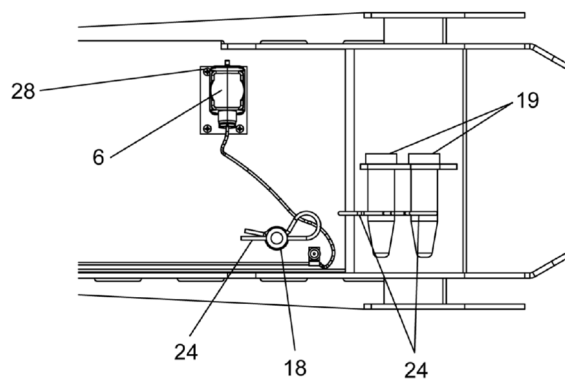
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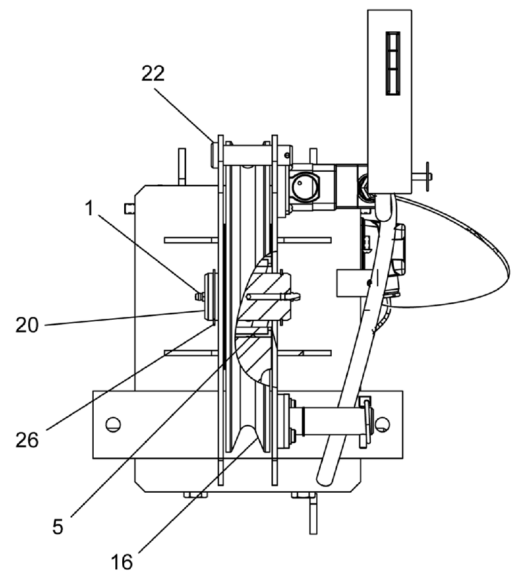
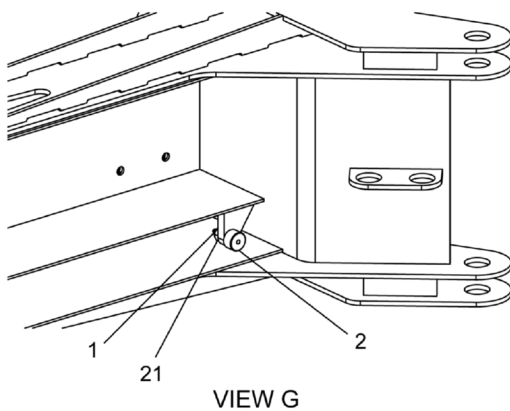
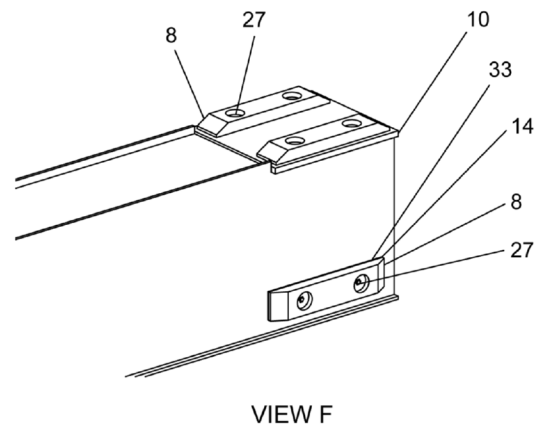
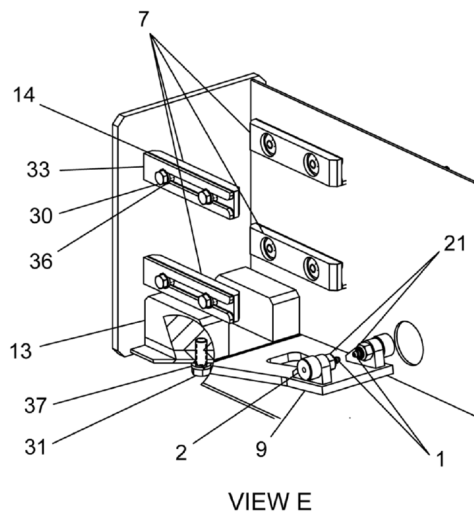
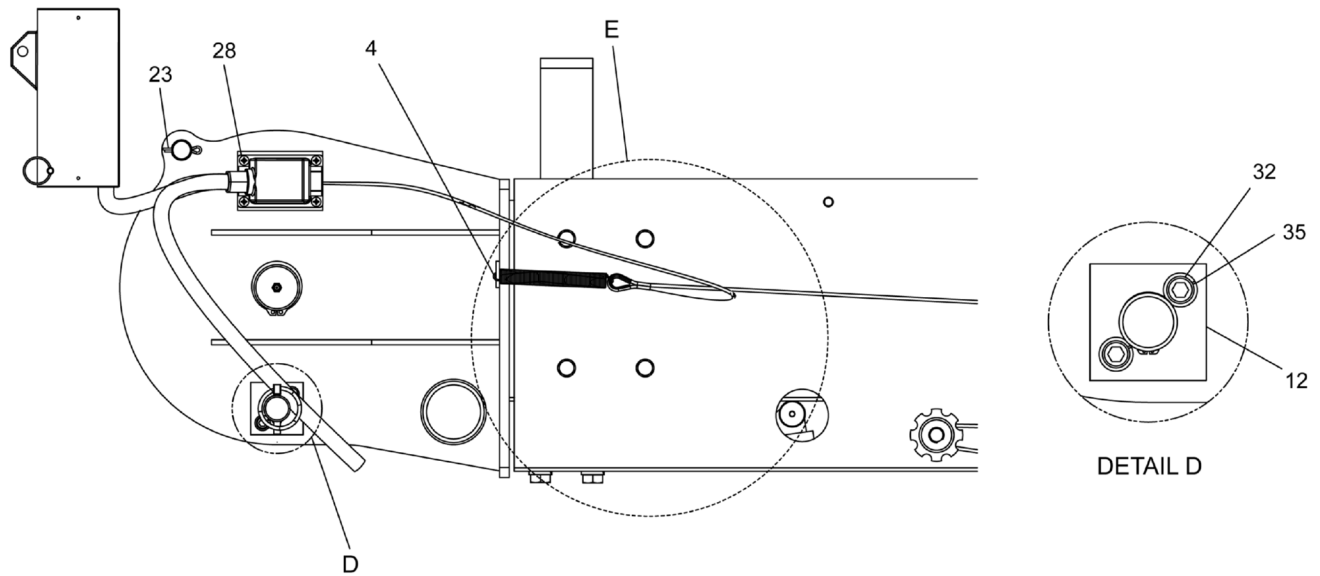
DETAIL B



DETAIL C



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

REF	PART NO.	DESCRIPTION	QTY
	730-51353 (Rev. K)	Jib ASSY 24-40 FT-2 ST	
1	1213-7	Grease FTG, Zerk, 0.25-28 STR	6
2	1217-49	Cam Follower	4
3	201-00171	Clamp 0.125 DIA Tube	9
4	202-10066	Spring, Cable Tension	1
5	274-30004	Bearing, Inner Race, 1.75 Shaft	1
6	400-25104	LMI Harness Assy-2 ST	1
7	729-02862	Wear Pad 6.00 X 1.25 X 0.50	4
8	729-02872	Wear Pad 6.00 X 1.25 X 0.50	4
9	730-51351	Support Weldment, Roller	1
10	730-51358	Jib Stinger Weldment	1
11	730-51360	Jib Base Weldment	1
12	774-00054	Adapter Bracket, ATB SW	1
13	783-03719	Block 4.00 X 2.00 X 1.50	2
14	787-00329	Shim 6.00 X 1.25 X 0.048	6
15	808-00047	Knob, Hand	2
16	860-40050	Sheave Assembly (see page 27)	1
17	870-20227	Pin, Retaining 1.00 X 8.00	1
18	870-20268	Pin Assy, Jib Stinger Retaining	1
19	870-30221	Pin 1.281 DIA, Jib Install	4
20	870-50058	Pin, Sheave 1.749 X 3.188	1
21	NYL-438F000-Y8	Nut, HX NY-INS 0.438-20, ST SQC G8	4
22	P01-750XB75-P0	Pin, Clevis 0.75 X 2.75, STL	1
23	P02-156XA00-20	Pin, Cotter 0.1562 X 1.00, ST SQC	1
24	PHP-178XC75-20	Pin, CTRHAIR 0.178 X 3.75 X 1.03, ST SQC	5
25	REX-A00X042-BP	Ring, EXTSNP 1.00 X 0.042, ST BPH	2
26	REX-A75X062-BP	Ring, EXTSNP 1.75 X 0.062, ST BPH	2
27	S16-375C875-20	SCR, FSHCS 0.375-16 X 0.875, ST SQC	8
28	SD1-190C375-20	SCR, CREC RND MS 10-24 X 0.375, ST Z	12
29	SHF-312CA00-25	SCR, HHCS FT 0.312-18 X 1.00, ST SQC G5	2
30	SHF-375C750-Y8	SCR, HHCS FT 0.375-16 X 0.75, STYZG8	8
31	SHF-500CA38-Y8	SCR, HHCS FT 0.50-13 X 1.375, ST SQC G8	4
32	SLH-312C625-BX	SCR, LSHCS 0.312-18 X 0.625, ST BX	2
33	T116216	Wear Pad Shim, .1875 THK	6
34	VBB-187X450-L5	RVT, BTNHD, BLND 0.187 X 0.45, AL	9
35	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	4
36	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	8
37	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
38	WAR-216X000-22	WSH, FL TYPA-REG 12, ST SQC G2	9

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB ASSEMBLY, 24 - 40FT - 2 STAGE

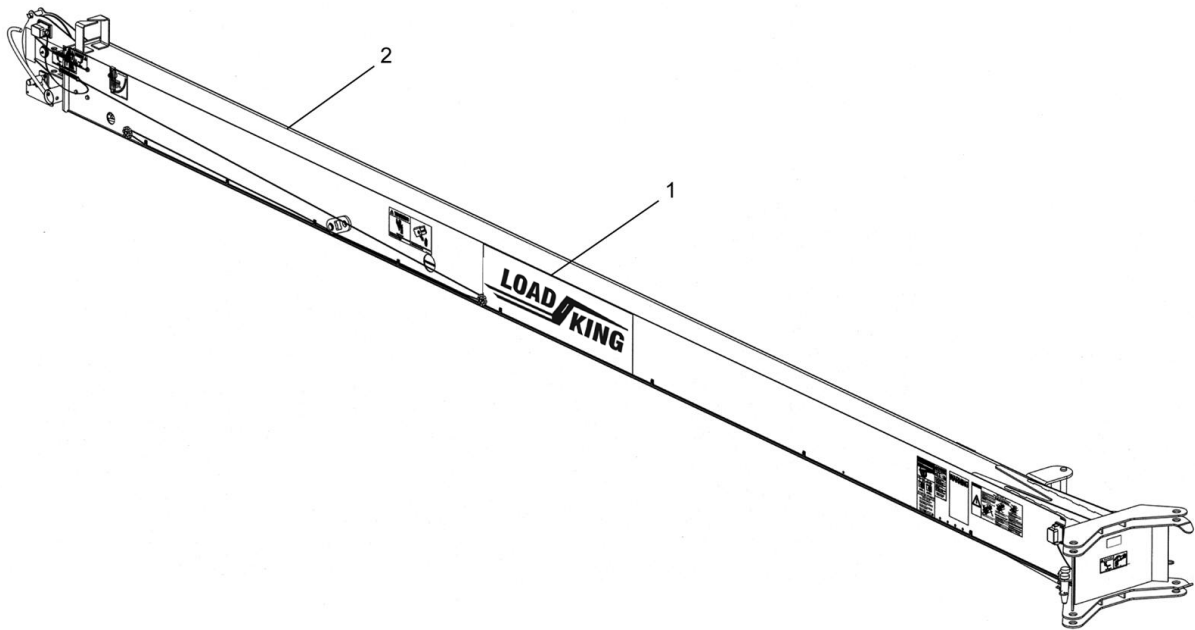
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51362 (Rev. C)	<i>Jib Assembly, Two Stage, White Decal</i>	
1	1007066	Decal INSTL, Jib - White LOAD KING (see page 22)	1
2	730-51353	Jib ASSY 24-40 FT-2 ST (see page 32)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB ASSEMBLY - TWO STAGE

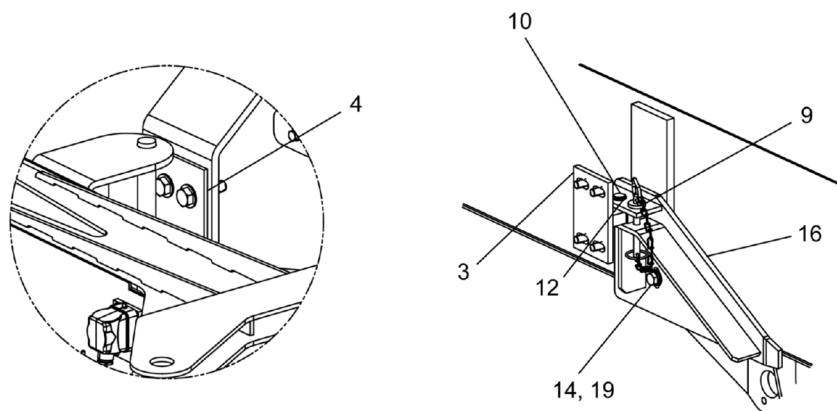
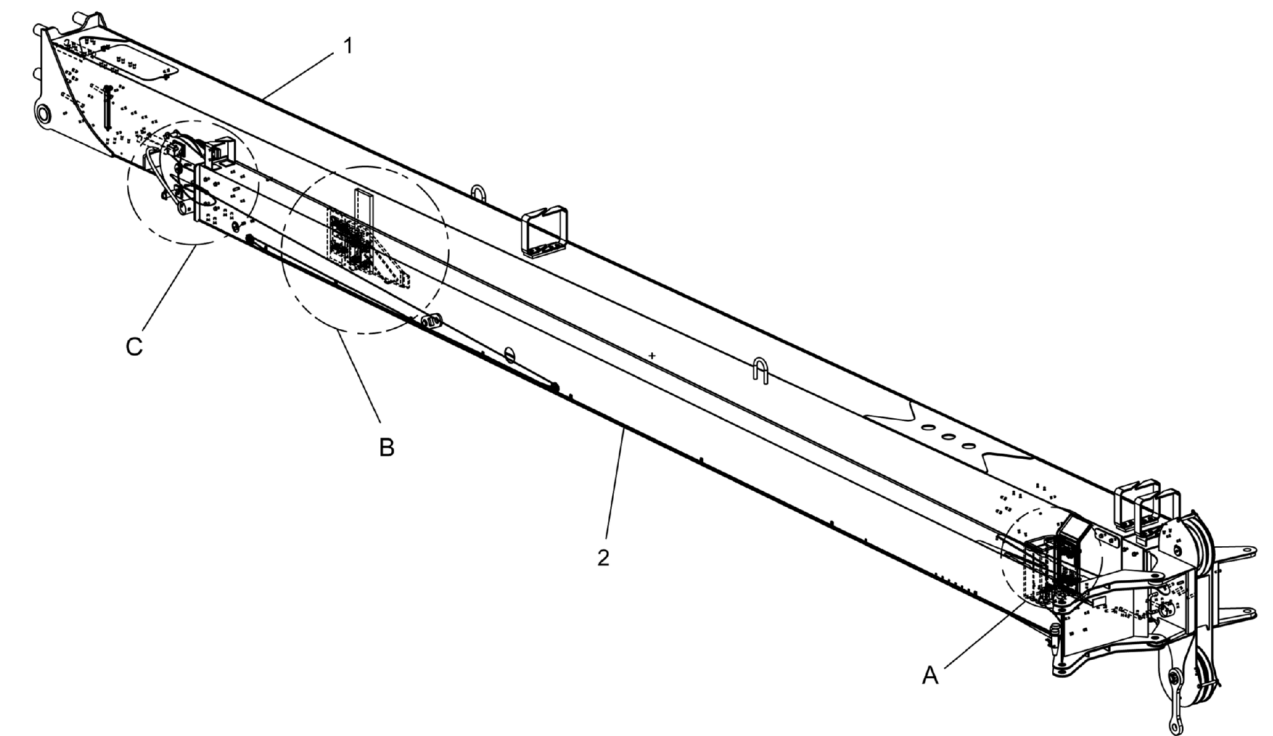
DATE: Revised 02-2015

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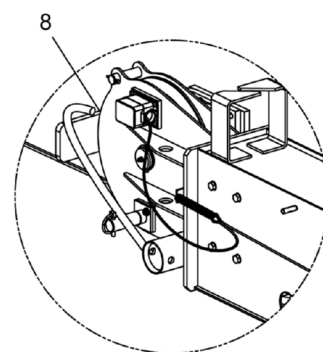
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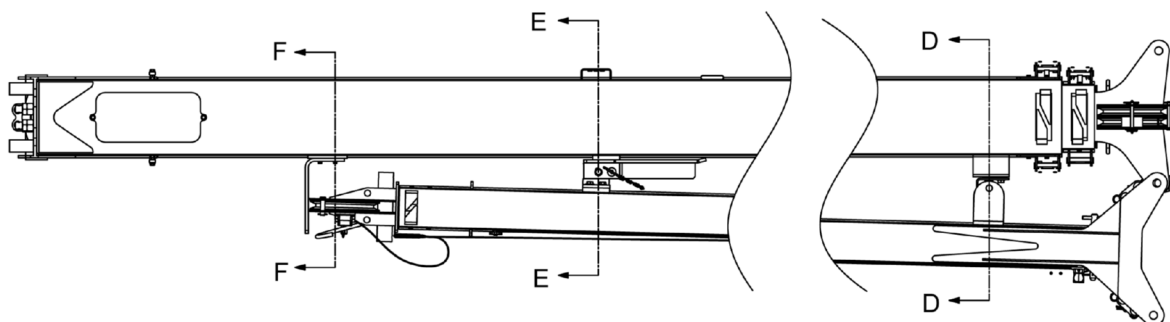


DETAIL A

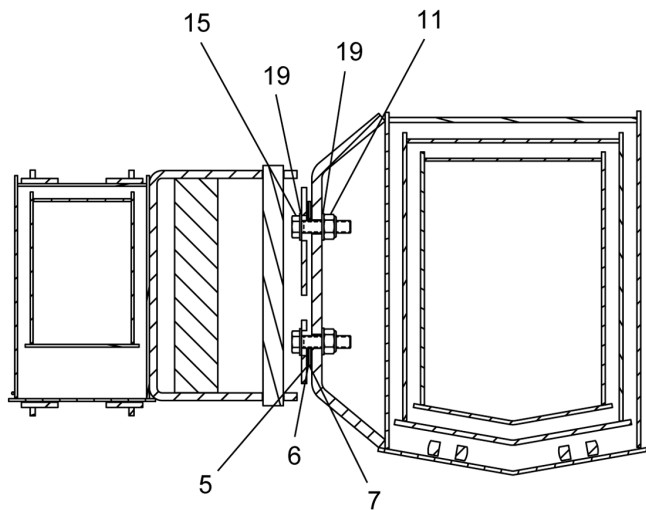
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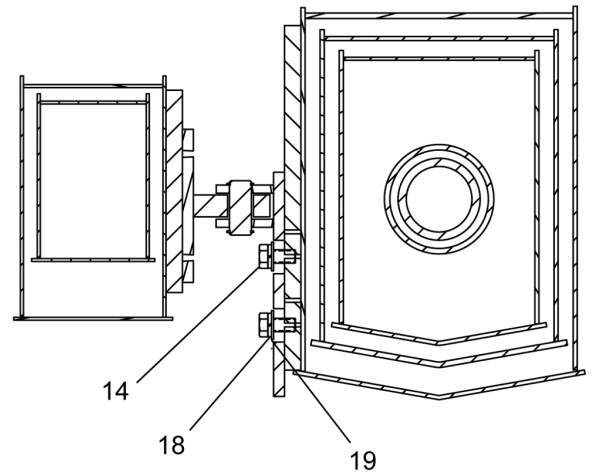
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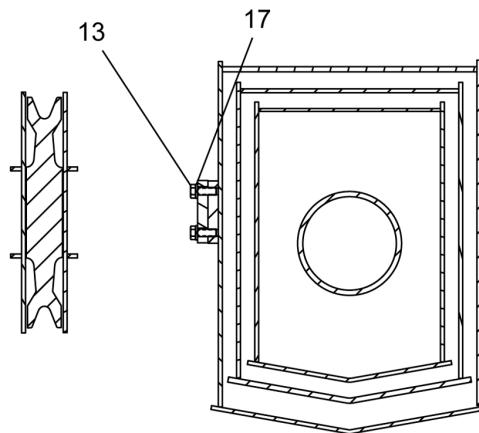
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SECTION D - D



SECTION E - E



SECTION F - F

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB INSTALLATION

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51355 (Rev. E)	<i>Jib Installation</i>	
1	721-00243	Boom ASSY, 70FT	1
2	730-51353	Jib ASSY 24-40 FT-2 ST (see page 35)	1
2.1	730-51354	Jib Assembly 24 FT-1 Stage (see page 24)	REF
3	770-01676	Bracket Weldment, Jib Stowage	1
4	770-01711	Bracket Weldment, Jib Stowage	1
5	787-00226	Shim 4.00 X 2.375 X 0.040, AL6061	2
6	787-00227	Shim 4.00 X 2.375 X 0.063, AL6061	2
7	787-00228	Shim 4.00 X 2.375 X 0.10, AL6061	2
8	789-05942	Safety Stop, Jib	1
9	870-00131	Pin ASSY, Jib Restrain	1
10	870-20243	Pin 1.00 X 2.48, Jib Stow	1
11	NYT-625C000-22	Nut, NYLK HVYTHN 0.625-11, ST SQC G2	4
12	REX-A00X078-BP	Ring, EXTSNP HVY 1.00 X 0.078, ST BP	2
13	SHF-375CA00-25	SCR, HHCS FT 0.375-16 X 1.00, STZ G5	4
14	SHF-625CA25-25	SCR, HHCS FT 0.625-11 X 1.25, ST SQC G5	8
15	SHF-625CB50-25	SCR, HHCS FT 0.625-11 X 2.50, ST SQC G5	4
16	T138162	Bracket Weldment, Jib Stowage	1
17	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	4
18	W07-625X000-20	WSH, LCK, MED SPLT 0.625, ST SQC	4
19	WAN-62NX000-20	WSH, FL TYPA-NRW 0.625, ST SQC	16

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



JIB INSTALLATION

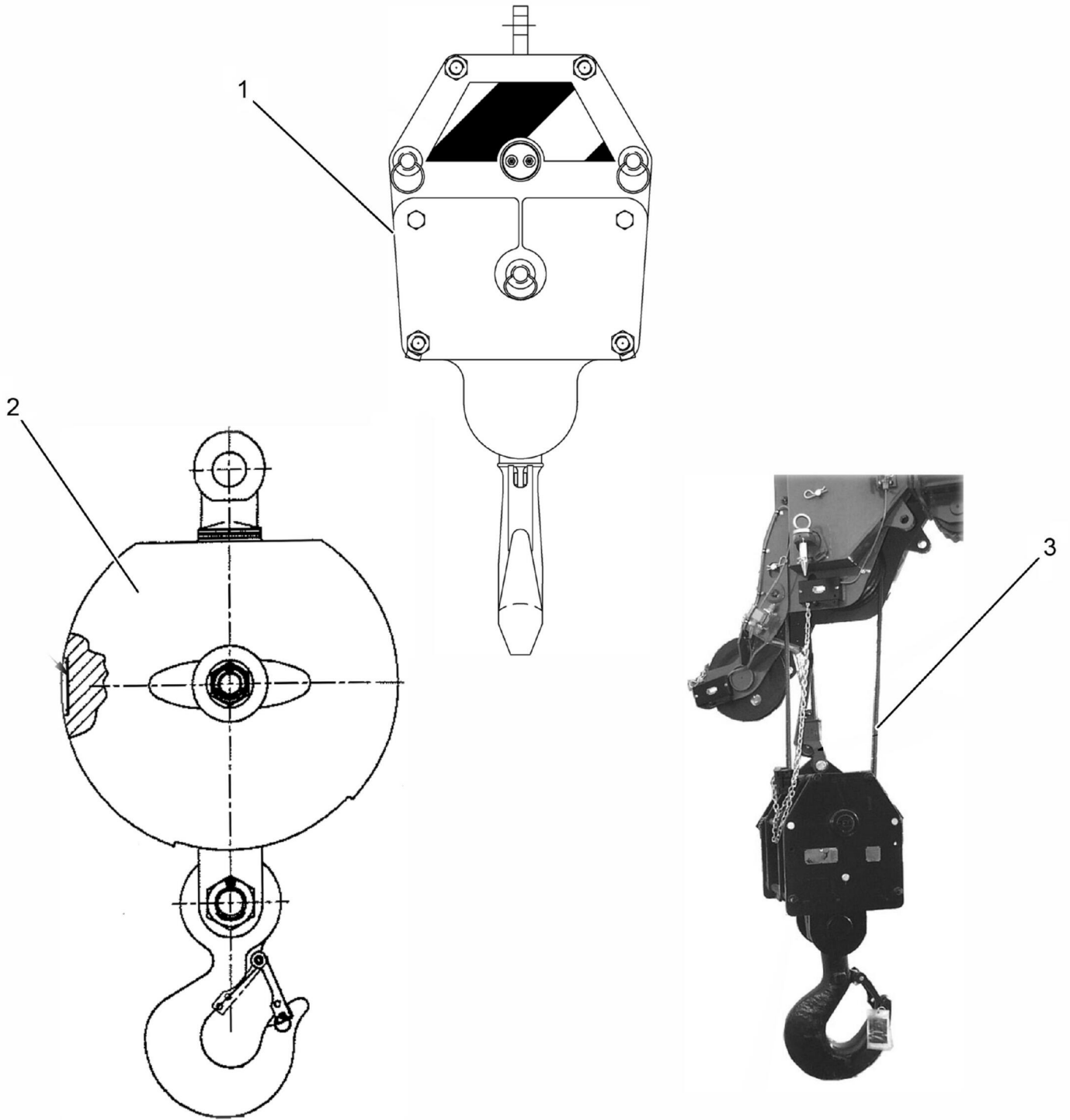
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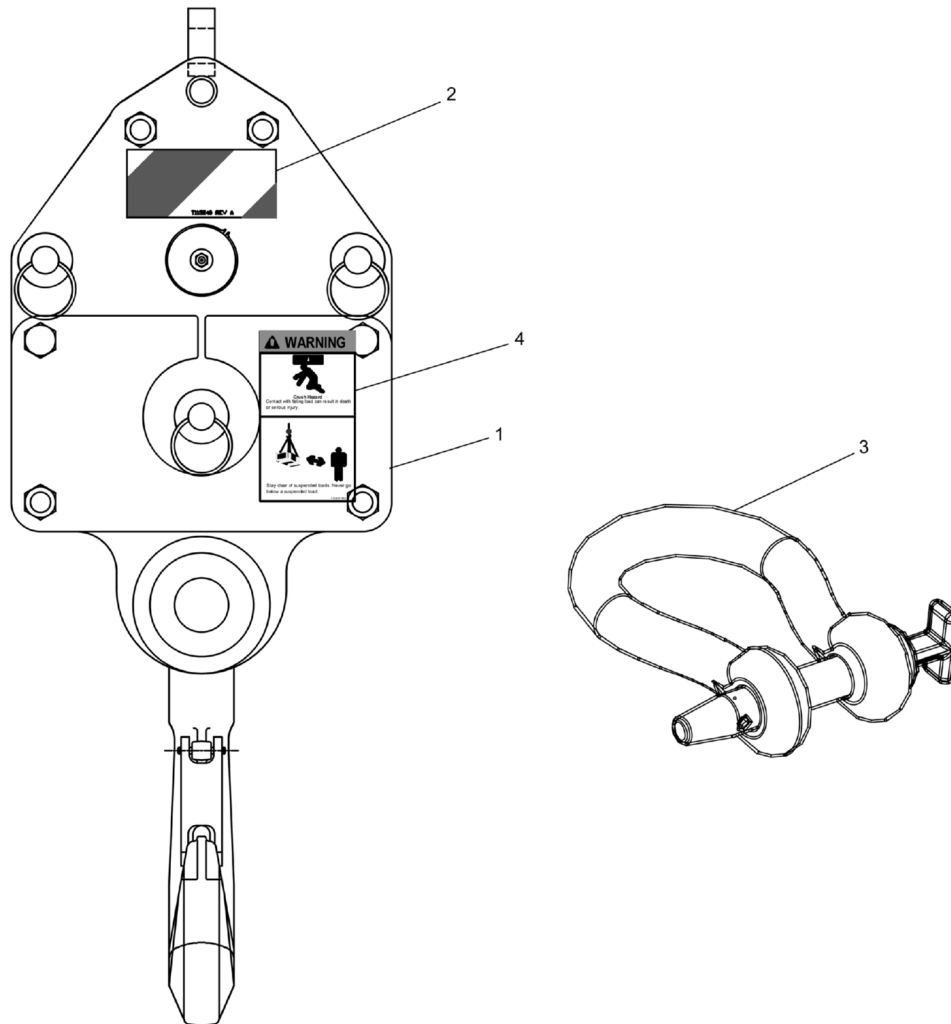
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	19-70-HK/LD BALLS & ROPE* (Rev. 00)	<i>Hook Block, Load Balls & Wire Rope Options</i>	
1	T115989	Load Block ASSY, Q Reeve 15T, 2 or 3 Part 1 Sheave (see page 44)	1
1A	T115990	Hook Block ASSY, Q Reeve 25T, 4 or 5 Part 2 Sheave (see page 47)	1
2	861-60087	Load Ball 7 Ton, 210 # Top Swivel (see page 50)	1
2A	861-90288	Load Ball 6.25T, Top Swivel (see page 52)	1
2B	861-60089	Load Ball 7 Ton Non SW (Used W/RR Rope) (see page 54)	1
2C	T143915	Wedge & Socket 9/16" (see page 56)	1
3	861-16088	Rope, Wire 9/16" X 240' EEIPS	1
3A	861-16083	Rope, 9/16 X 240 FT-ROT Rotation Resistant	1

* NOT PURCHASABLE AT THIS LEVEL

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HOOK BLOCK & WIRE ROPE	DATE: Released 09-2017	CHAPTER 1
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REF	PART NO.	DESCRIPTION	QTY
	T115989 (Rev. E)	Load Block ASSY, Q Reeve 15T, 2 or 3 Part 1 Sheave	
1	861-60109	Load Block, Q Reeve, 15T, 1 Sheave (see page 45)	1
2	1007053	Safety Stripe 2.5 X 5.5	2
3	T147170	Clevis Assembly 7/8 X 4-1/4	1
4	T140607	Decal, Crush Hazard, Stay Clear of Load	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HOOK BLOCK ASSEMBLY 1 SHEAVE / 15 TON

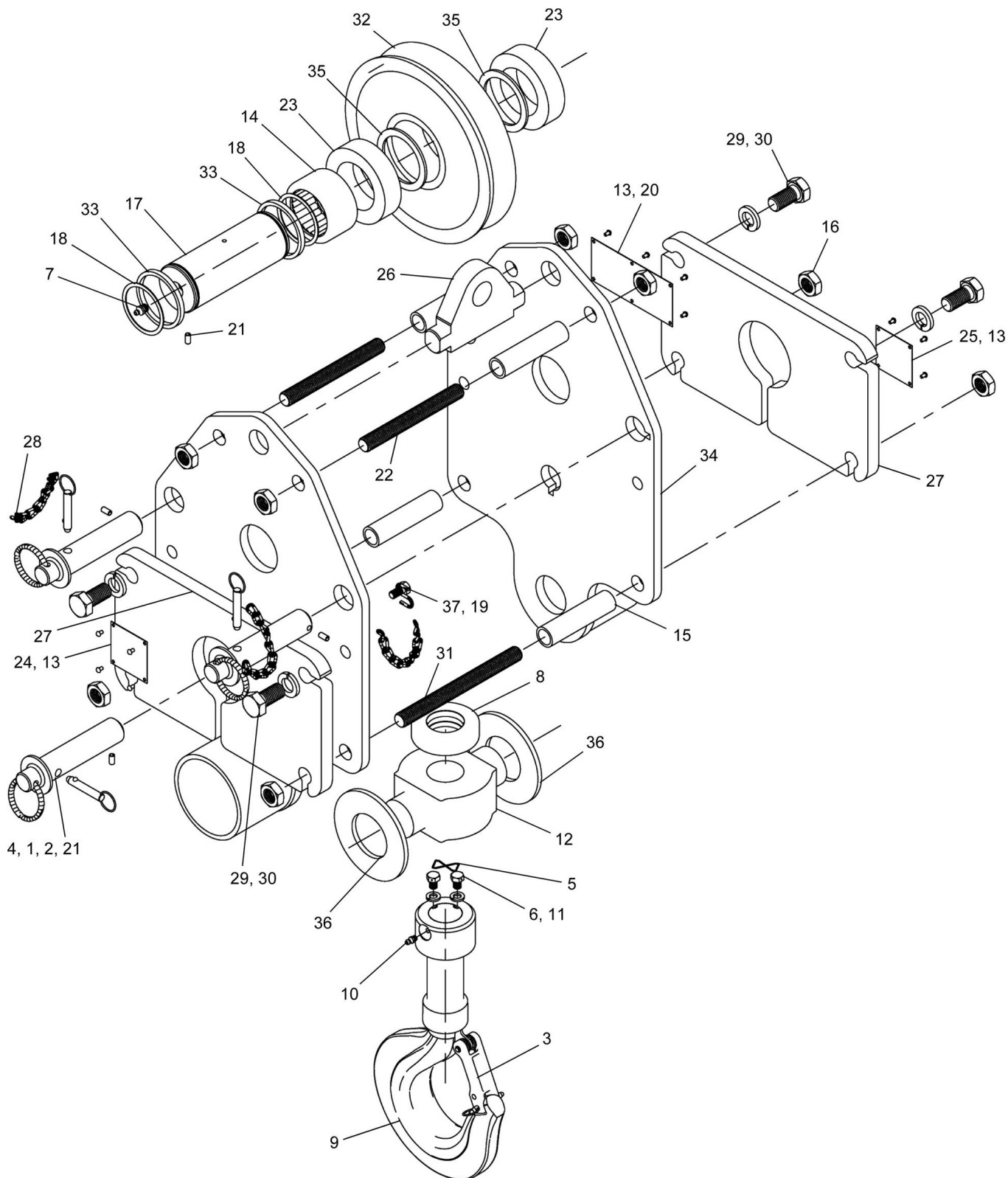
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HOOK BLOCK 1 SHEAVE, 15T

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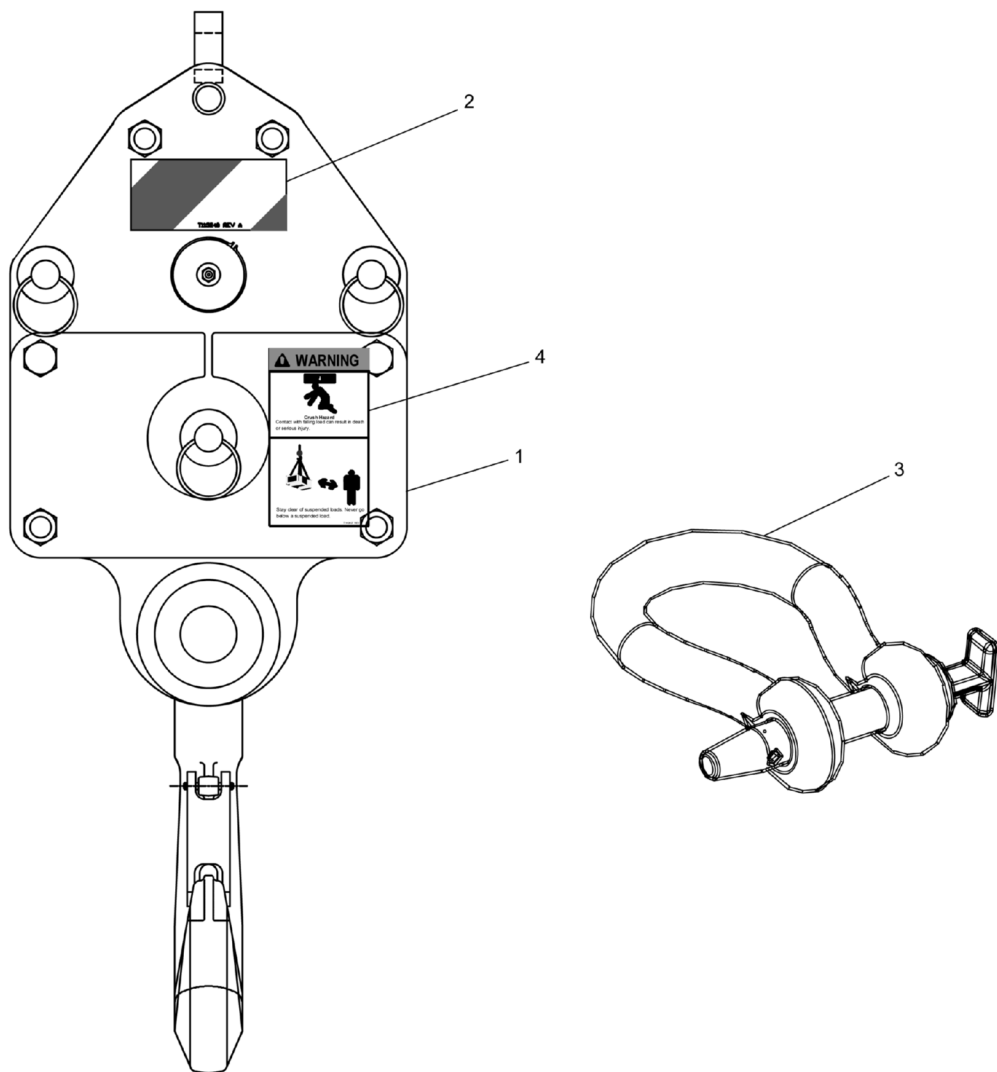
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REF	PART NO.	DESCRIPTION	QTY
	861-60109 (Rev. 00)	Load Block, Q Reeve, 15T, 1 Sheave	
1	215303	2Ring Split	3
2	215290	Pin QK-REL 0.38ODX1.50LG	3
3	217143	A15J Latch Kit Installed	1
4	221153	Pin QK Reeve 1.25ODX5.35LG	3
5	217119	1/32 STN SAFETY Wire	1
6	217898	Screw Cap HX0.38ODX0.50LG NC	2
7	215304	Fitting 1/8NPT	1
8	215312	T176 RT BRG	1
9	221154	J 15HK & Nut F-A.	1
10	215286	- 28Fitting 1/4	1
11	217899	L Wash 3/8	2
12	215311	J DHSG Casting	1
13	216955	Screw DR RDO. 14ODX0.25LGNC CD	14
14	215278	BRG R 3.25ODX2.50IDX1.75WD	1
15	221148	Spacer 1.05ODX0.75IDX4.31LG	4
16	219133	- 10Nut J 3/4	8
17	219135	Pin Center2.50ODX6.44LG-1	1
18	215294	SPRLOX21/2	2
19	215301	S Hook	1
20	217135	QRJ Caution Plate	1
21	215305	Roll Pin 0.25 DIA X .50 Deep	4
22	221155	T Bolt 6.50X3/4	2
23	219136	SPR 4.00ODX2.53IDX1.09LG	2
24	220256	Name Plate LOAD KING F/Block	1
25	220253	CAUT Plate LOAD KING	1
26	221156	QRJ D End 1 TRN	1
27	221157	PLT CKWT QRJBK 10SHV.75TK	2
28	215291	No.3 MACH Twist Link Chain	3
29	215901	Screw Cap HX0.75ODX1.50LG NC	4
30	215287	L Wash 3/4	4
31	221161	T Bolt 0.75ODX8.00LG All THD	2
32	226861	SHV MC 9.81ODX3.25IDX2.00TK	1
33	221160	SPR 3.00ODX2.63IDX0.25LG	2
34	221158	QRJ 10PL Group W/Stabilizer	1
35	219137	Wash TH 3.24ODX2.52IDX0.13 TKBR	2
36	215326	SPR 4.75ODX2.38IDX0.22LG	2
37	221159	Screw Cap HX0.38ODX0.75LG NC	1

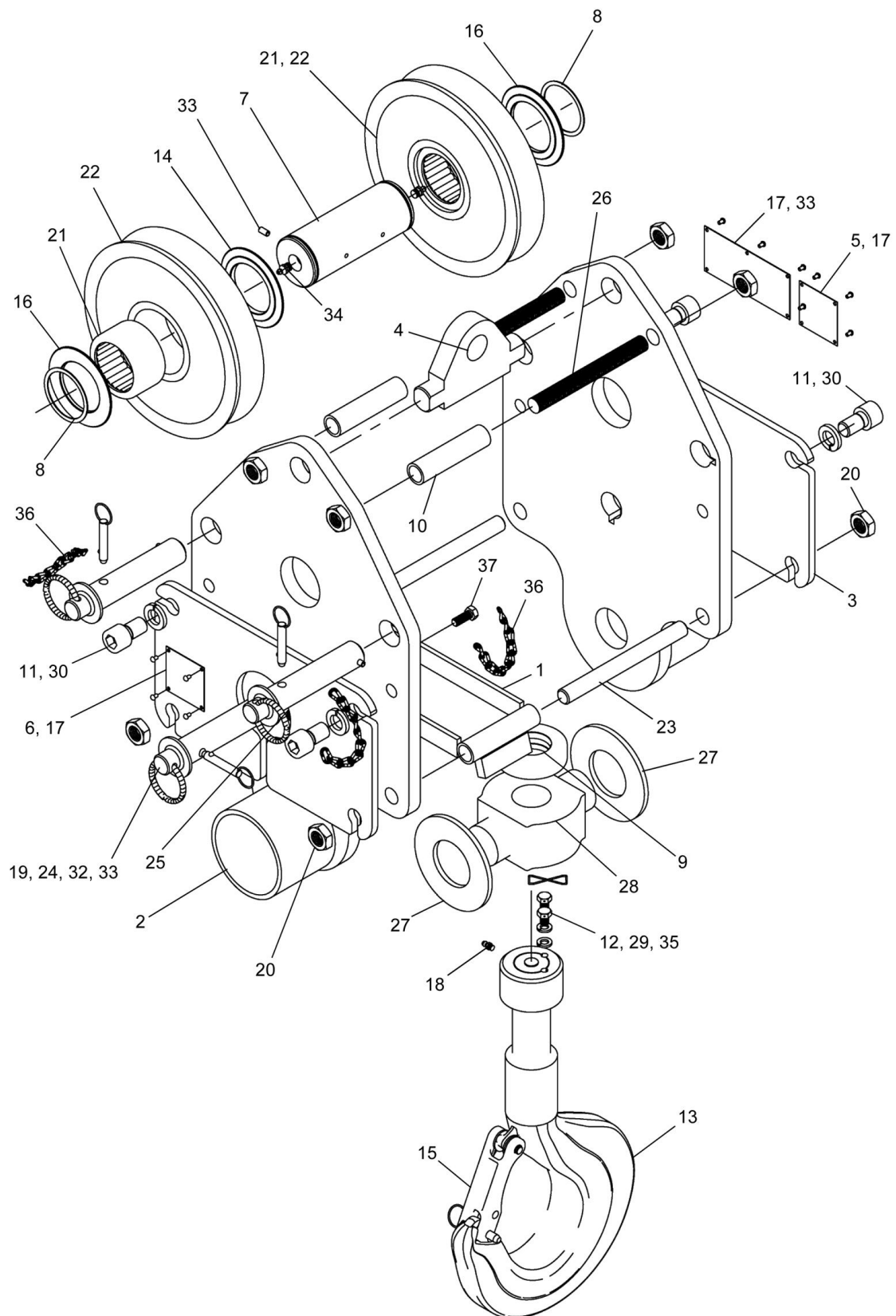
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HOOK BLOCK 1 SHEAVE, 15T	DATE: Revised 12-2013	CHAPTER 1
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REF	PART NO.	DESCRIPTION	QTY
	T115990 (Rev. E)	Hook Block ASSY, Q Reeve 25T, 4 or 5 Part 2 Sheave	
1	861-60110	Load Block, Q Reeve, 25T, 2 Sheave (see page 48)	1
2	1007053	Safety Stripe 2.5 X 5.5	2
3	T147170	Clevis Assembly 7/8 X 4-1/4	1
4	T140607	Decal, Crush Hazard, Stay Clear of Load	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HOOK BLOCK 2 SHEAVE, 25T

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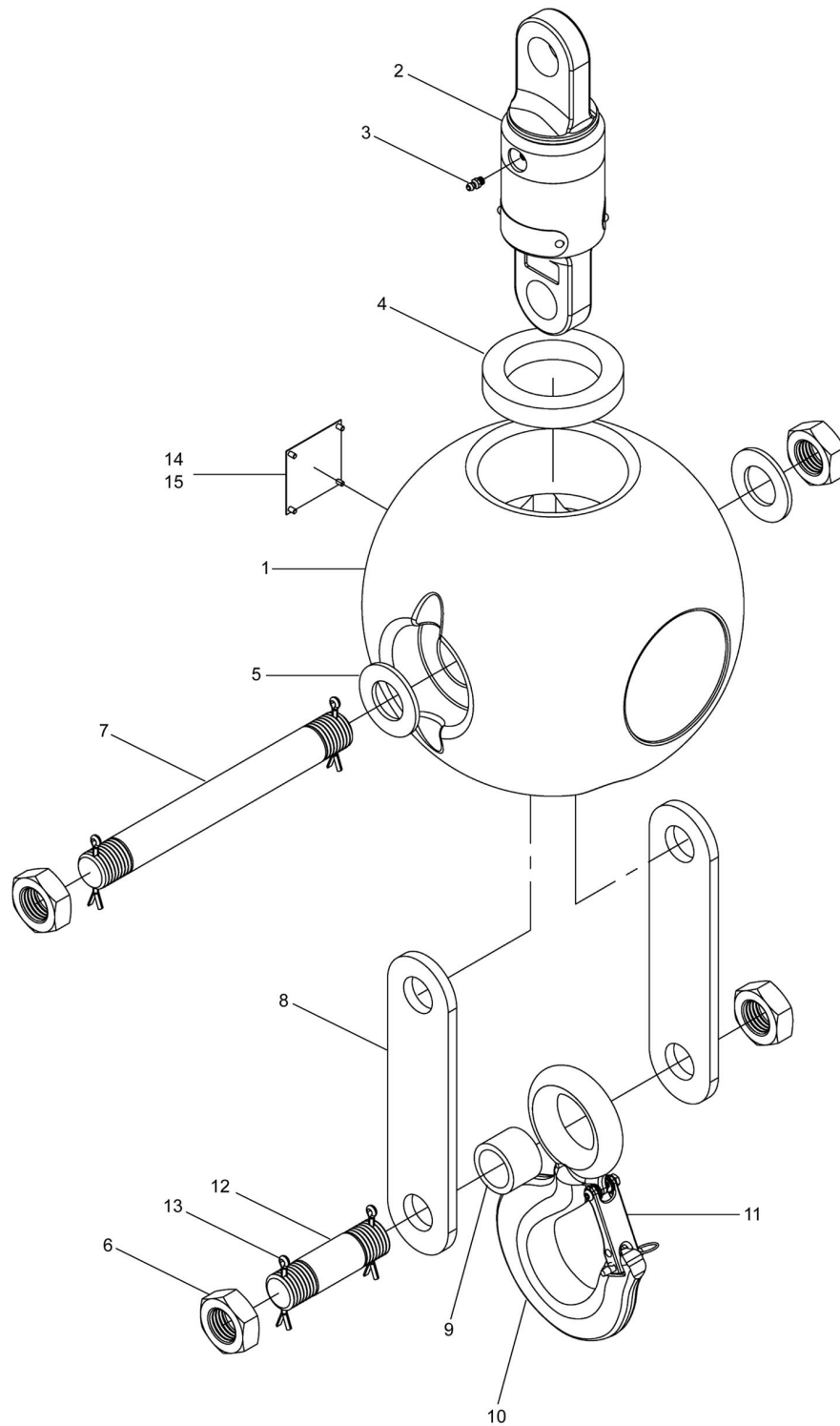
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	861-60110 (Rev. 00)	Load Block, Q Reeve, 25T, 2 Sheave	
1	221144	QRJ 10R Guide AY	1
2	221145	QJ D 10PL Group W/Stabilizer	1
3	221146	PLT CKWT QRJBK 10SHV.75TK	2
4	221147	QRJ D End 1 TRN	1
5	220253	CAUT Plate LOAD KING	1
6	220256	Name Plate LOAD KING F/Block	1
7	215317	Pin Center 2.50ODX6.47LG-2	1
8	215294	SPRLOX21/2	2
9	215312	T176 RT BRG	1
10	221148	Spacer 1.05ODX0.75IDX4.31LG	2
11	215287	L Wash 3/4	4
12	217899	L Wash 3/8	2
13	221149	J 25HK & Nut A25	1
14	215310	Wash TH 4.00ODX2.53IDX0.30TKBR	1
15	215323	A22J Latch Kit Installed	1
16	215309	Wash TH 4.00ODX2.53IDX0.20TKBR	2
17	216955	Screw DR RDO. 14ODX0.25LGNC CD	14
18	215286	- 28Fitting 1/4	1
19	215303	2Ring Split	3
20	219133	- 10Nut J 3/4	8
21	215278	BRG R 3.25ODX2.50IDX1.75WD	2
22	226861	SHV MC 9.81ODX3.25IDX2.00TK	2
23	221151	T Bolt 0.75ODX7.75LG All THD	2
24	215290	Pin QK-REL 0.38ODX1.50LG	3
25	215301	S Hook	1
26	219134	T Bolt 0.75ODX7.00LG All THD	2
27	215326	SPR 4.75ODX2.38IDX0.22LG	2
28	215311	J DHSG Casting	1
29	217898	Screw Cap HX0.38ODX0.50LG NC	2
30	221152	Screw Cap SC 0.75ODX1.25LG NC	4
31*	217135	QRJ Caution Plate	1
32	215321	Pin QK Reeve 1.25ODX5.88LG	3
33	215305	Roll Pin 0.25 DIA X .50 Deep	4
34	215304	Fitting 1/8NPT	2
35	217119	1/32 STN SAFETY Wire	1
36	215291	No.3 MACH Twist Link Chain	3
37	215327	Screw Cap HX0.38ODX1.00LG NC	1

* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HOOK BLOCK 2 SHEAVE, 25T	DATE: Revised 12-2013	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



LOAD BALL 7 TON, 210 # TOP SWIVEL

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	861-60087 (Rev. 00)	<i>Load Ball 7 Ton, 210 # Top Swivel</i>	
1	215394	OHB 200 Ball	1
2	229652	7EE	1
3	215286	- 28Fitting 1/4	1
4	216951	7EE200C Ring	1
5	215386	Washer 11/4	2
6	215387	-7Nut J 11/4	4
7	215395	Pin Latch 1.25ODX11.1LG	1
8	215393	OHB ADP B 3/8	2
9	215392	SPR 1.75ODX1.31IDX1.25LG	1
10	215391	7 Eye HK A 7	1
11	219129	A-7J Latch Kit Installed	1
12	215389	Pin Latch 1.25ODX4.38LG OHB	1
13	215388	Pin Cotter 0.19ODX1.75LG	4
14	219778	LOAD KING Name Plate F/OHB	1
15	216955	Screw DR RDO. 14ODX0.25LGNC CD	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



LOAD BALL 7 TON, 210 # TOP SWIVEL

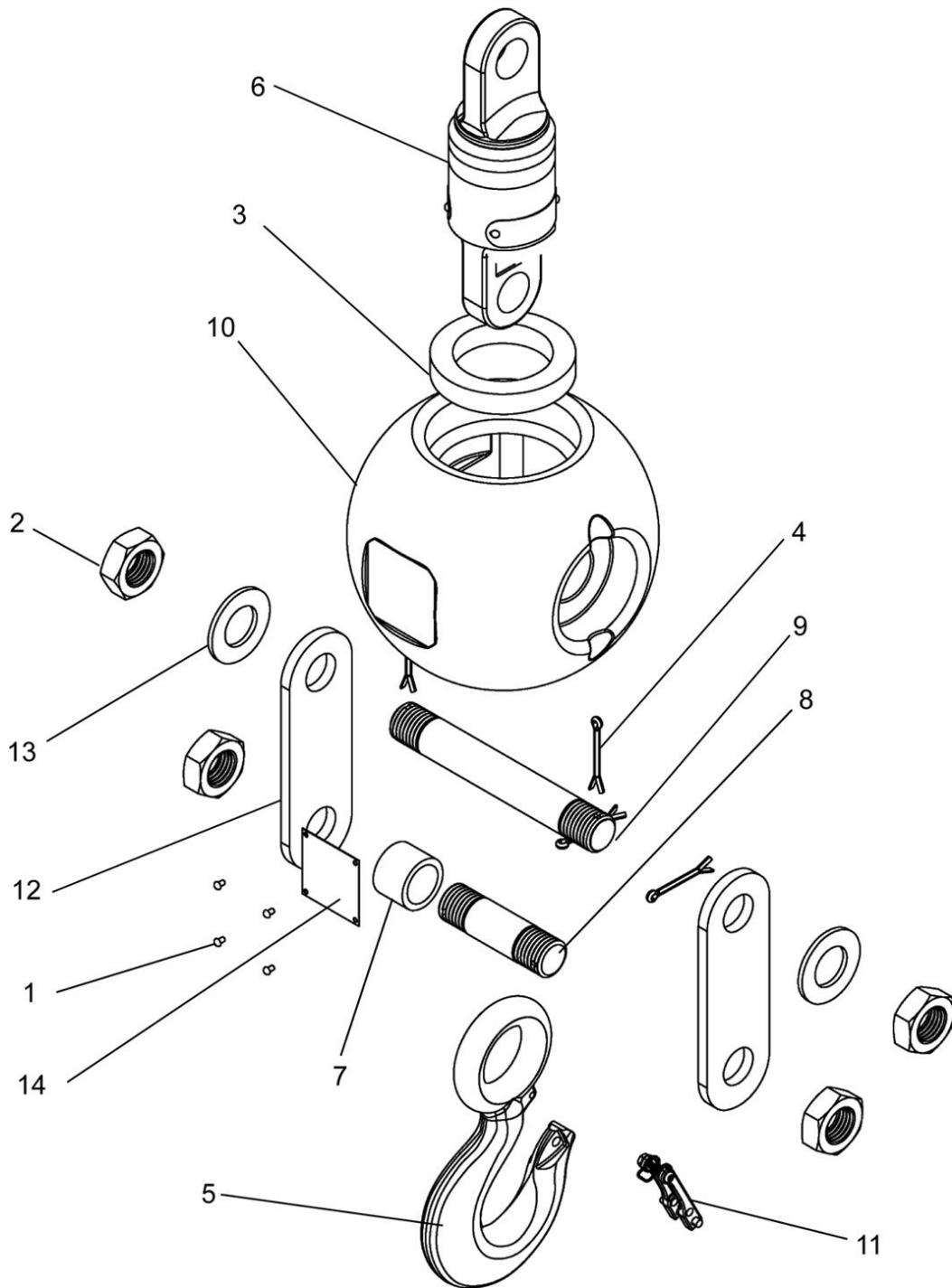
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



LOAD BALL 6.25T, TOP SWIVEL

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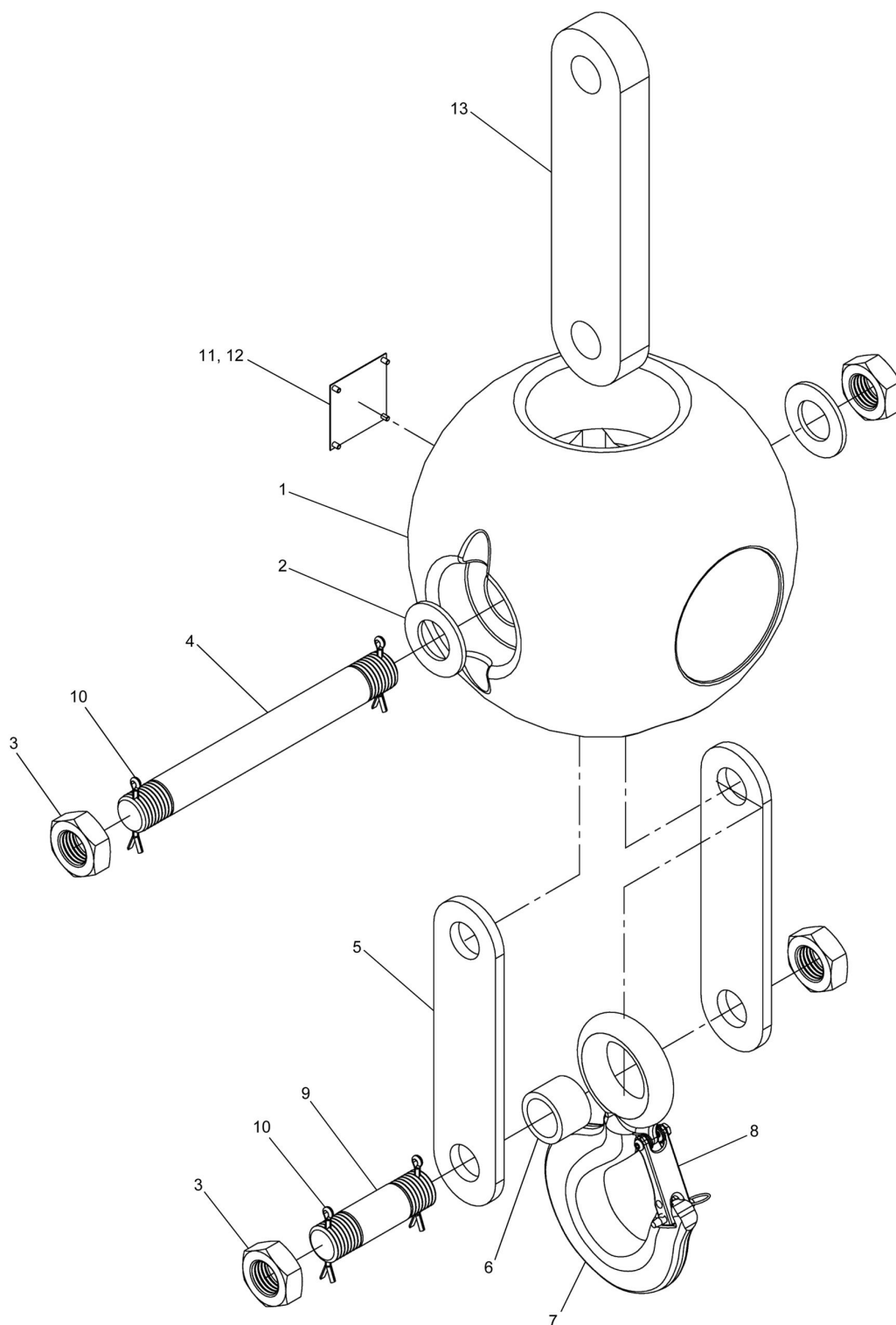
CHAPTER

1

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	861-90288 (Rev. 00)	<i>Load Ball 6.25T, Top Swivel</i>	
1	216955	Screw DR RDO. 14ODX0.25LGNC CD	4
2	215387	-7Nut J 11/4	4
3	216951	7EE200C Ring	1
4	215388	Pin Cotter 0.19ODX1.75LG	4
5	215391	7 Eye HK A 7	1
6	215382	7EE	1
7	215392	SPR 1.75ODX1.31IDX1.25LG	1
8	215389	Pin Latch 1.25ODX4.38LG OHB	1
9	215385	Pin Latch 1.25ODX8.63LG OHB	1
10	215384	OHB 85 Ball	1
11	219129	A-7J Latch Kit Installed	1
12	215383	OHB ADP B 3/8	2
13	215386	Washer 11/4	2
14	219778	LOAD KING Name Plate F/OHB	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	LOAD BALL 6.25T, TOP SWIVEL	DATE: Revised 01-2015	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



LOAD BALL 7 TON NON SW (USED W/RR ROPE)

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	861-60089 (Rev. 00)	<i>Load Ball 7 Ton Non SW (Used W/RR Rope)</i>	
1	861-90565	OHB 200 Ball	1
2	861-90539	Washer 11/4	2
3	861-90509	-7 Nut J 11/4	4
4	861-90562	Pin Latch 1.25 OD X 11.1 LG	1
5	861-90543	OHB ADP B 3/8	2
6	861-90544	SPR 1.75 OD X 1.31 ID X 1.25 LG	1
7	861-90513	7 Eye HK A 7	1
8	209-00714	A-7J Latch Kit Installed	1
9	861-90511	Pin Latch 1.25 OD X 4.38 LG	1
10	861-90510	Pin Cotter 0.19 OD X 1.75 LG	4
11	Name Plate LOAD KING	Name Plate LOAD KING	1
12	861-90490	Screw DR RD 0.14 OD X 0.25 LGNC	4
13	861-90514	OHB ADP B 11/4	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



LOAD BALL 7 TON NON SW (USED W/RR ROPE)

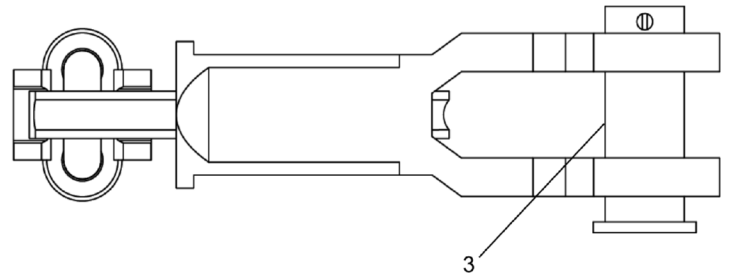
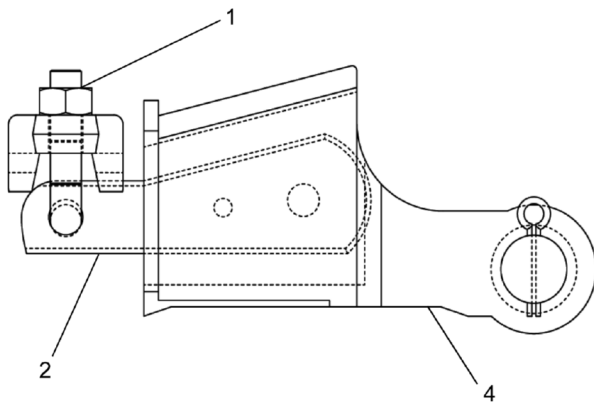
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T143915 (Rev. B)	<i>Wedge & Socket 9/16"</i>	
1	T143909	Forged Wire Rope Clip 9/16"	1
2	1234-19	Wedge	1
3	T143912	Bolt & Cotter 5/8" Rope	1
4	1234-18	Socket	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WEDGE & SCOKET INSTL

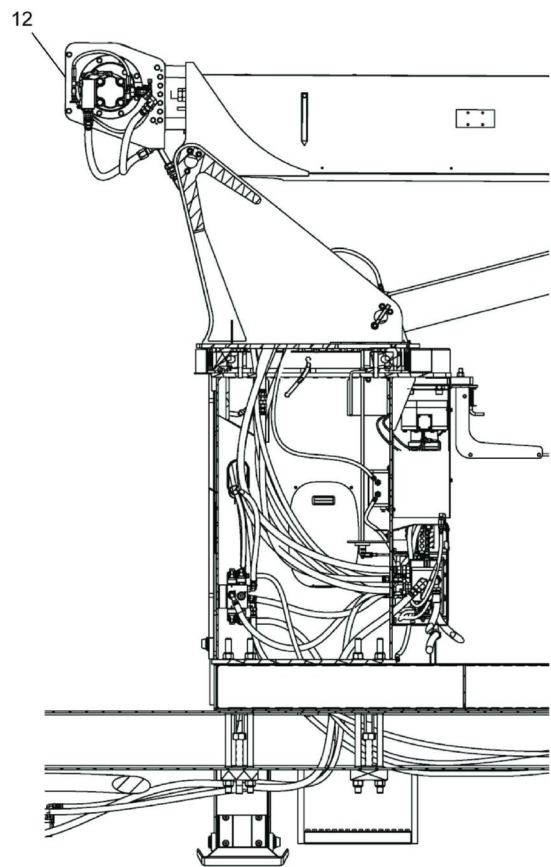
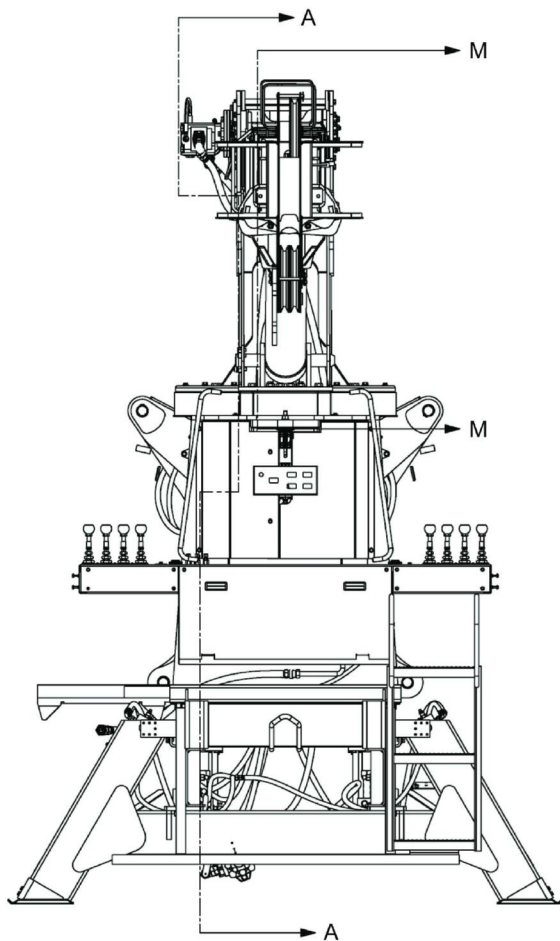
DATE: Revised 08-2017

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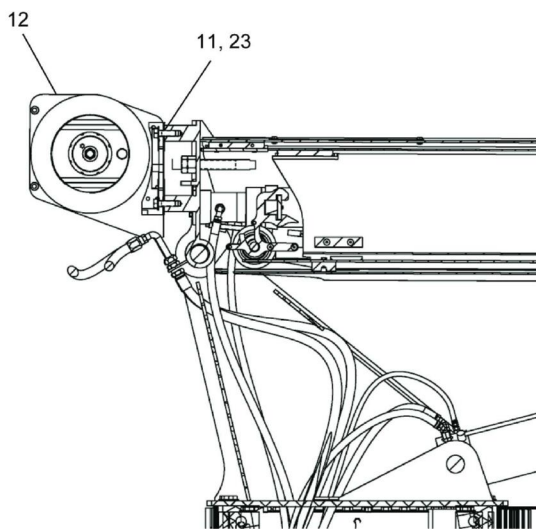
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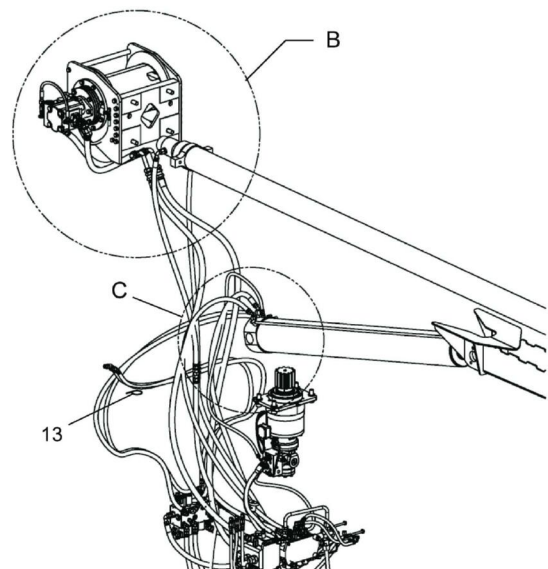
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SECTION A-A



SECTION M-M



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - COMBINED FLOW (1 SPEED)

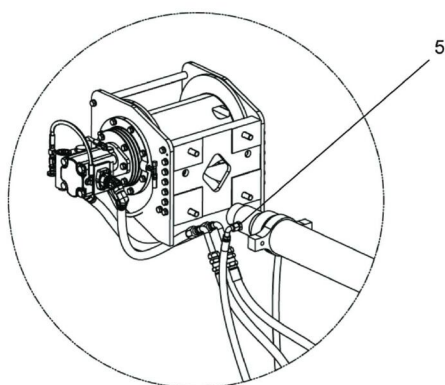
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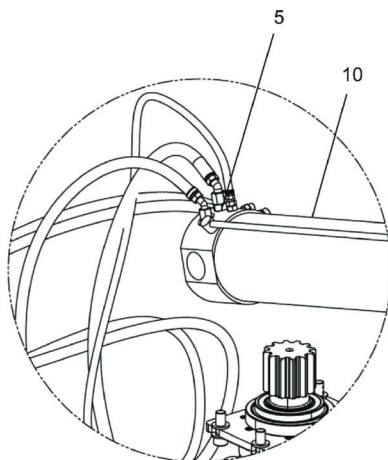
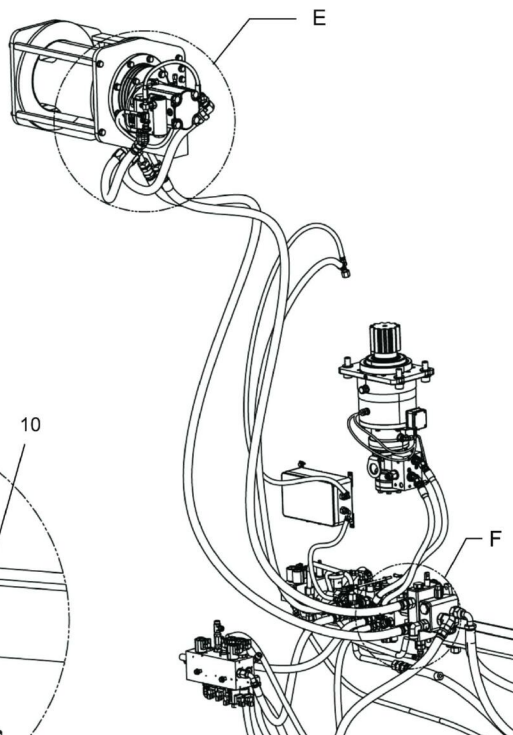
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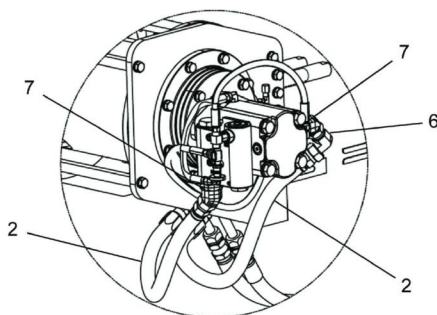
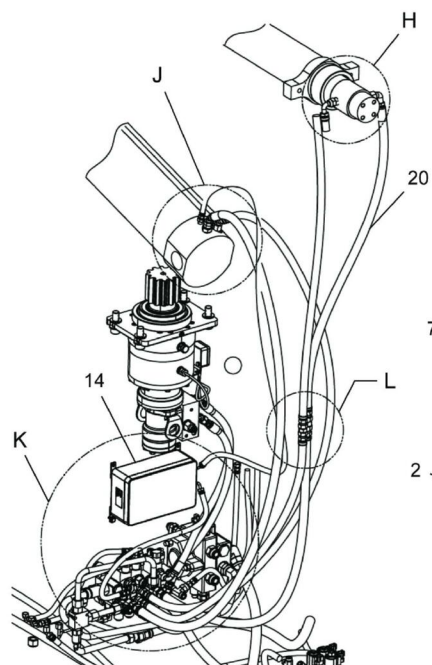
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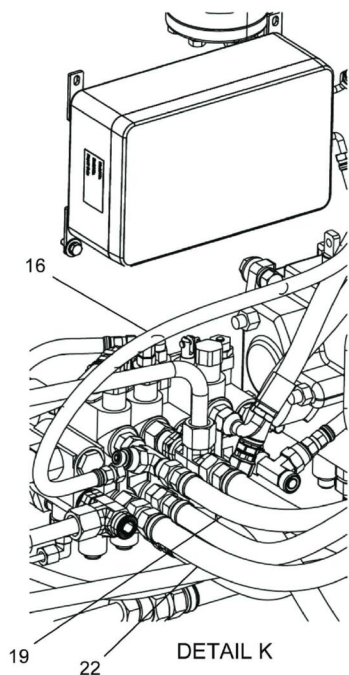
DETAIL B



DETAIL C



DETAIL E



DETAIL K

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - COMBINED FLOW (1 SPEED)

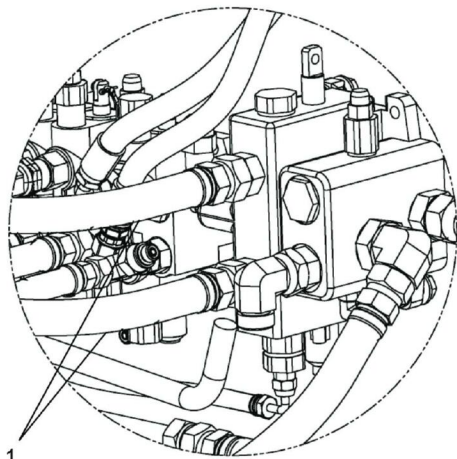
DATE: Revised 09-2017

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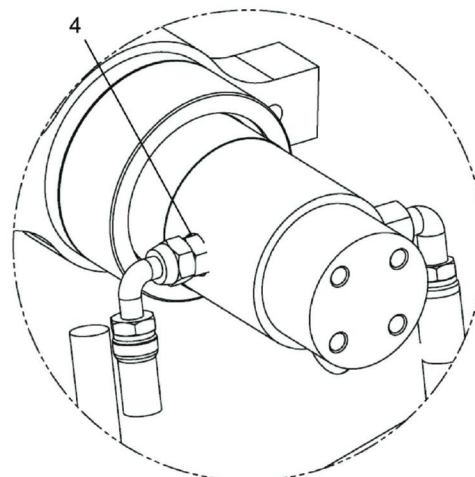
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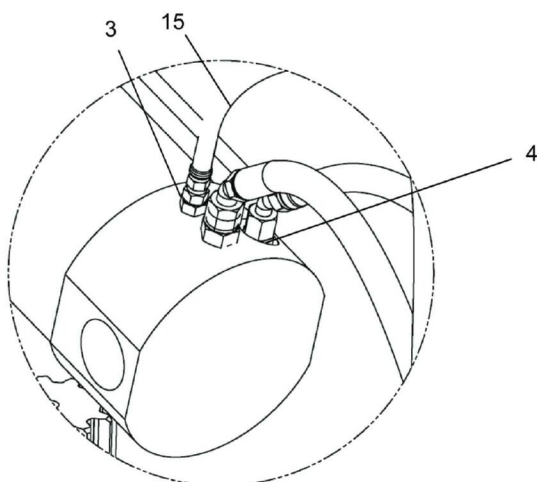
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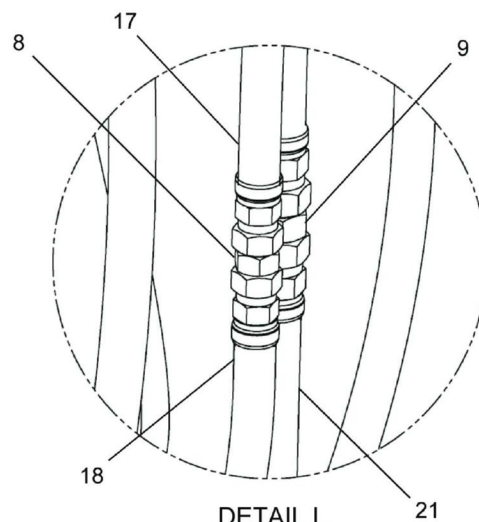
DETAIL F



DETAIL H



DETAIL J



DETAIL L

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - COMBINED FLOW (1 SPEED)

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-01 (Rev. F)	<i>HYD Install, 19-70, NON CON-CF</i>	
1	502-41014	Hose ASSY, Winch	2
2	502-41015	Hose ASSY, Winch, Short	2
3	513-20019	Adapter, MOFS-4/MORB-6	1
4	513-50023	Adapter, MOFS-8/MORB-8	2
5	513-60008	Adapter, MOFS-10/MORB-10	2
6	514-67004	Elbow Swivel 90°	1
7	515-07003	Elbow 45°	2
8	519-50024	Union Fitting, STR M08 OFS	1
9	519-60017	Union Fitting, STR M10 OFS	1
10	695-10020	Structural Assembly, 19-70 (see page 61)	1
11	S01-750CB25-Y8	SCR, HHCS 0.75-10X2.25, ST YZ GR8	4
12	T145115	Winch ASSY (OMNIGEAR) (see page 118)	1
13	400-15086	Tie, Nylon CBL, 1.75 DIA	1
14	500-01839-01	HYD INSTL, Main Outrigger (see page 122)	1
15	502-11350	Hose, Hydraulic, RCI	1
16	502-11351	Hose, HYD RCI Topping Rod Base	1
17	502-30783	Hose ASSY, Tele Retract - Upper	1
18	502-30784	Hose ASSY, TELE Retract-Lower	1
19	502-30787	Hose, Boom Topping Retract	1
20	502-35084	Hose ASSY, Tele Extend - Upper	1
21	502-35085	Hose ASSY, TELE Extend-Lower	1
22	502-35087	Hose, Boom Topping Extend	1
23	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - COMBINED FLOW (1 SPEED)

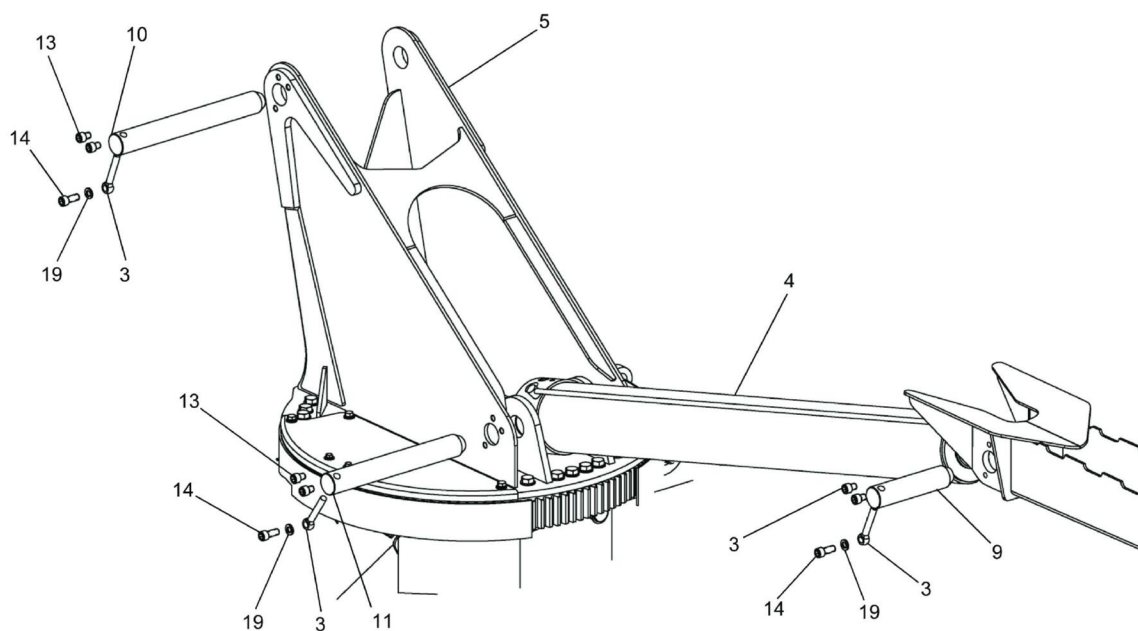
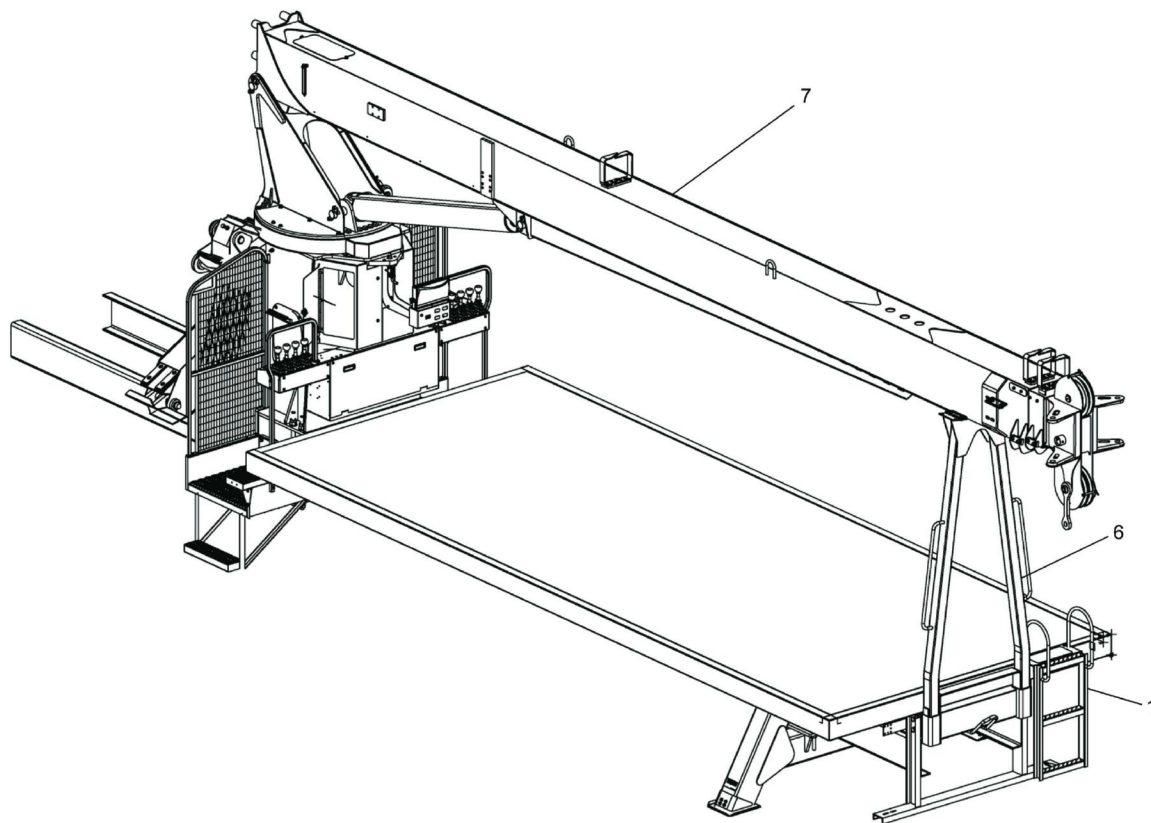
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



STRUCTURAL ASSEMBLY (BOOM & HOIST CYLINDER)

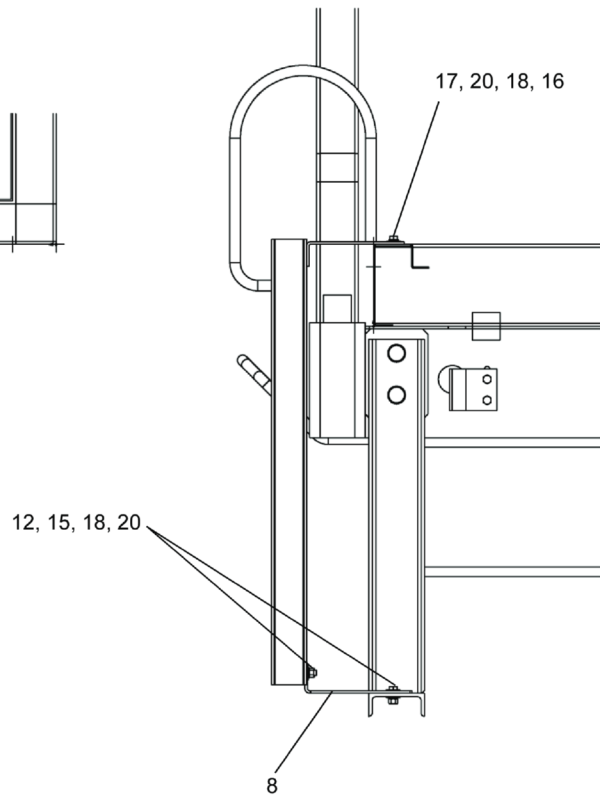
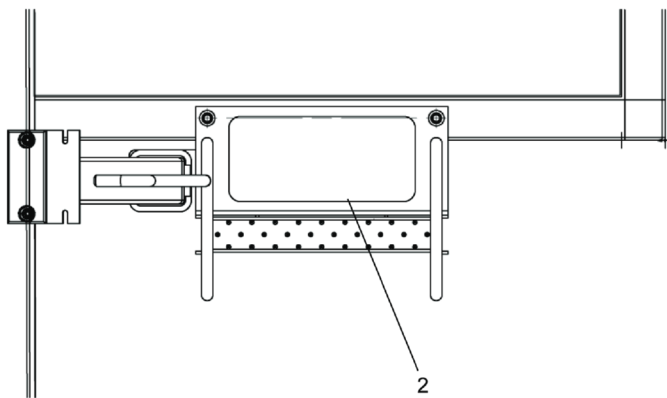
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



STRUCTURAL ASSEMBLY (BOOM & HOIST CYLINDER)

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10020 (Rev. B)	<i>Structural Assembly, 19-70</i>	
1	024-00009	Ladder Weldment	1
2	209-00871	Anti Slip Tape, Ladder	1
3	224-26005	Rod End 0.625X4.25	3
4	540-80096.2	Cylinder, HYD, Boom Hoist (see page 64)	1
5	695-10019	Truck Attach Main Assembly (see page 66)	REF
6	698-00065	Boom Rest ASSY (see page 109)	1
7	T120656	Boom Assembly, 70FT (see page 110)	REF
8	789-05812	Ladder SPT BRKT	1
9	870-70071	Pin, Boom Pivot 2.25X9.75	1
10	870-70072	Pin, Boom Pivot 2.25X18.625	1
11	870-70073	Pin, Boom Pivot 2.25X17.125	1
12	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	4
13	S14-625C750-H2	SCR, SHCS 0.625-11X0.75, ST Z	6
14	S14-625CA50-H2	SCR, SHCS 0.625-11X1.50, ST Z	3
15	SHF-375CA00-25	SCR, HHCS FT 0.375-16 X 1.00, STZ G5	4
16	SHF-375CA50-25	SCR, HHCS FT 0.375-16X1.50, STZ	2
17	T11-375C000-CD	Thread-Sert 0.375-16, ST CAD	2
18	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	6
19	W07-625X000-20	WSH, LCK, MED SPLT 0.625, ST SQC	3
20	WBR-37RXA00-20	WSH, FL TYPB - REG 0.375, ST Z	10

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



STRUCTURAL ASSEMBLY (BOOM & HOIST CYLINDER)

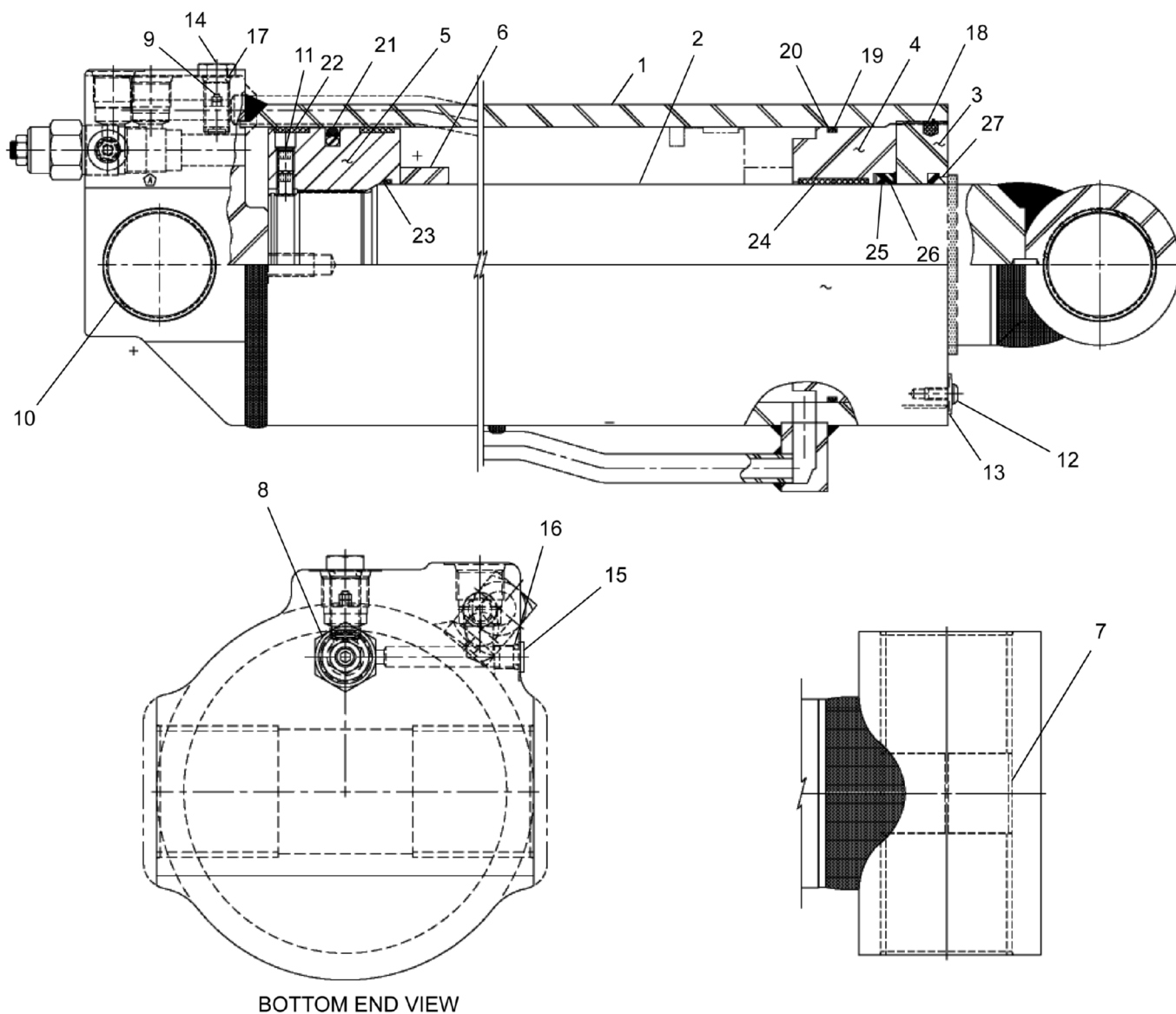
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



BOOM & HOIST CYLINDER

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	540-80096.2 (Rev. 00)	<i>Cylinder, HYD, Boom Hoist</i>	
1	346-00807	Case Weld G 6.000 68.688L	1
2	346-00806	Rod Weld G 3.500 69.625L	1
3	346-00695	THRD Ring D 6.250-12 B 3.500	1
4	346-00696	Head D 6.000 3.500 2.250L STL	1
5	346-00805	Piston G 6.000 3.250 2.875L	1
6	346-00804	Spacer G 3.510 4.250 1.063L	1
7	346-00599	Bush Spacer G 2.245 2.375	1
8	552-00145	Valve CBAL CBEA-LHN 4000	1
9	346-00699	Valve VEL Fuse RBE-9/16-18SAE	1
10	271-17004	Bearing 2.25 SHFT X 2.25, Teflon	4
11	346-00734	SHSS .375-16 .500 CUP PT *	4
12	346-00701	BHCS .250-20 .500	1
13	346-00702	Lockwasher Dished 0.8750D .039T	1
14	346-00704	Plug SAE 6 .563-18 HH STL	1
15	346-00703	Plug SAE 4 .438-20 SH STL	1
16	PART OF 268-90201	Wiper 3.500R D 90PU	1
17	PART OF 268-90201	Wiper 3.500R D 90PU	1
18	PART OF 268-90201	Wiper 3.500R D 90PU	1
19	PART OF 268-90201	Wiper 3.500R D 90PU	1
20	PART OF 268-90201	Wiper 3.500R D 90PU	1
21	PART OF 268-90201	Wiper 3.500R D 90PU	1
22	PART OF 268-90201	Wiper 3.500R D 90PU	2
23	PART OF 268-90201	Wiper 3.500R D 90PU	1
24	PART OF 268-90201	Wiper 3.500R D 90PU	2
25	PART OF 268-90201	Wiper 3.500R D 90PU	1
26	PART OF 268-90201	Wiper 3.500R D 90PU	1
27	PART OF 268-90201	Wiper 3.500R D 90PU	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



BOOM & HOIST CYLINDER

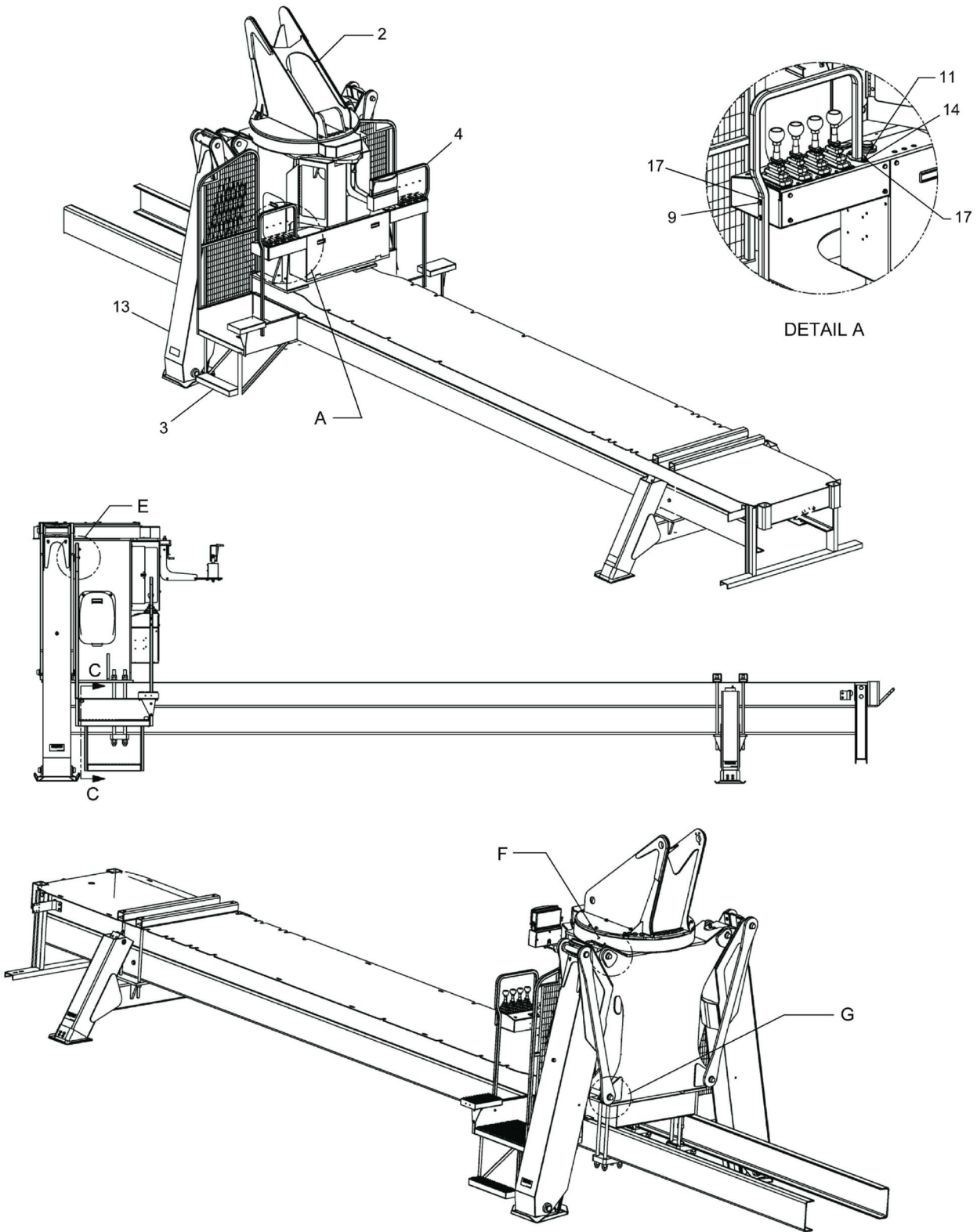
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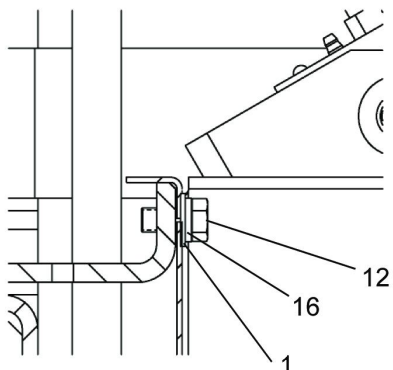
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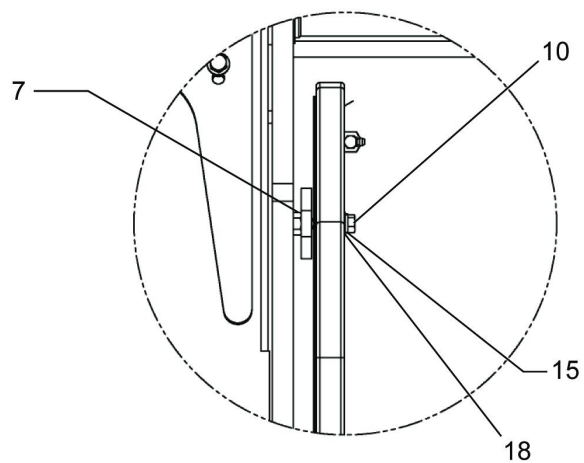
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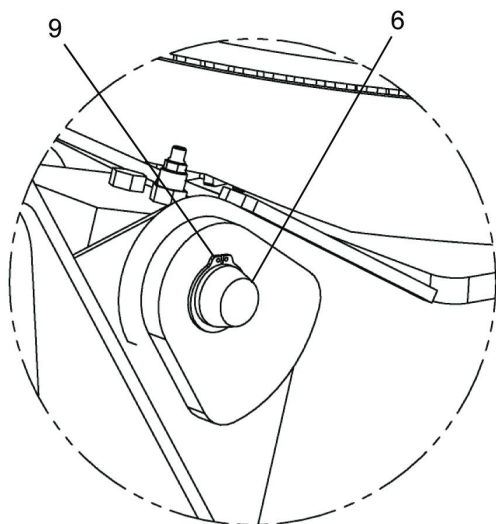
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



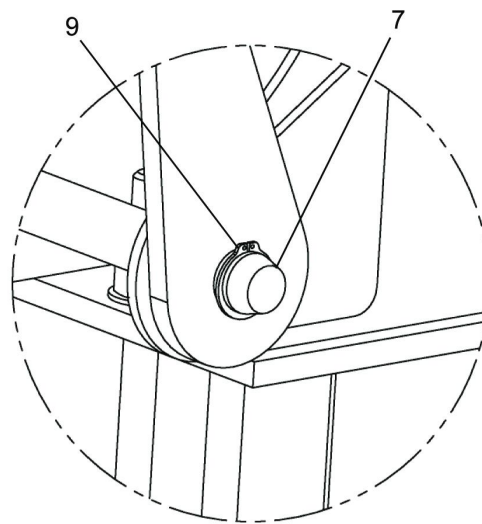
SECTION C-C



DETAIL E



DETAIL F



DETAIL G

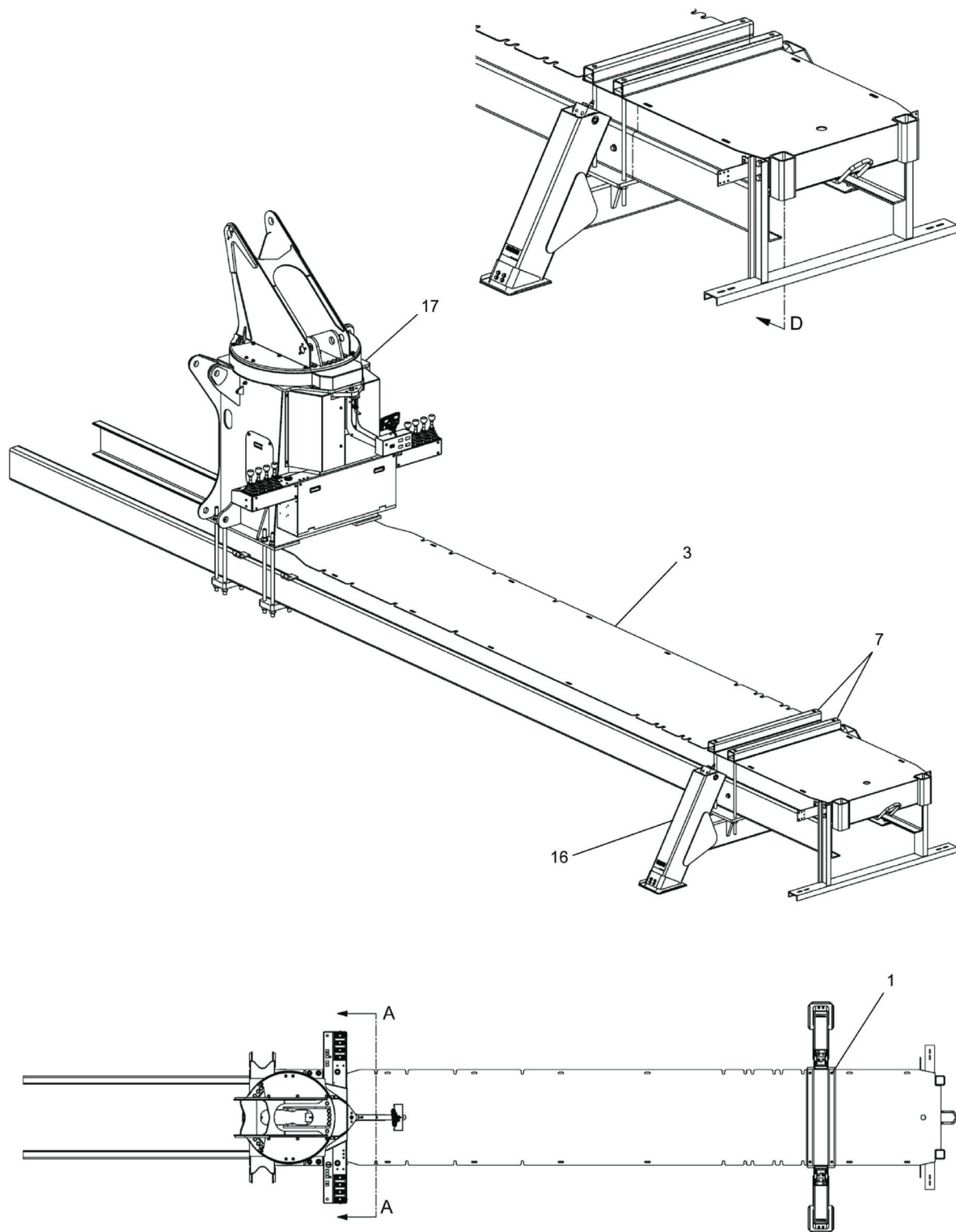
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10019 (Rev. C)	<i>Truck Attach Main Assembly</i>	
1	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	4
2	695-10018	Subframe-Mainframe ASSY (see page 69)	1
3	695-10026-1	Platform U.S Street Side (see page 98)	1
4	695-10026-2	Platform U.S Curb Side (see page 101)	1
5*	870-80020	Pin, Outrigger 1.75X12.20	2
6	870-80021	Pin, Outrigger 1.75X12.875	2
7	NYT-375C000-22	Nut, NYLK HVYTHN 0.375-16, ST Z G2	2
8*	REX-A75X109-BP	Ring, EXTSNP HVY 1.75X0.109, ST BP	8
9	S01-250CA75-25	SCR, HHCS 0.25-20X1.75, ST Z GR5	4
10	S01-375CB25-25	SCR, HHCS 0.375-16X2.25, ST Z GR5	2
11	SHF-250C625-25	SCR, HHCS FT 0.25-20 X 0.625, STZ G5	4
12	SHF-500CA00-25	SCR, HHCS FT 0.50-13 X 1.00, ST SQC G5	4
13	T124906	Leg ASSY, Main Outrigger (see page 104)	2
14	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	4
15	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	2
16	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
17	WAN-25NX000-20	WSH, FL TYP A-NRW 0.25, ST SQC	8
18	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SUBFRAME - MAINFRAME ASSEMBLY

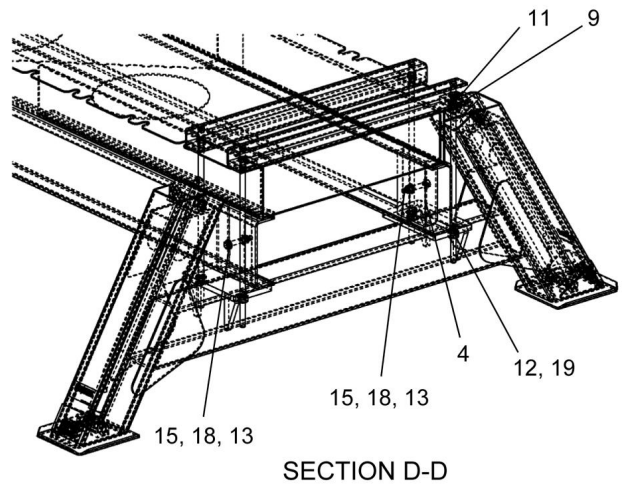
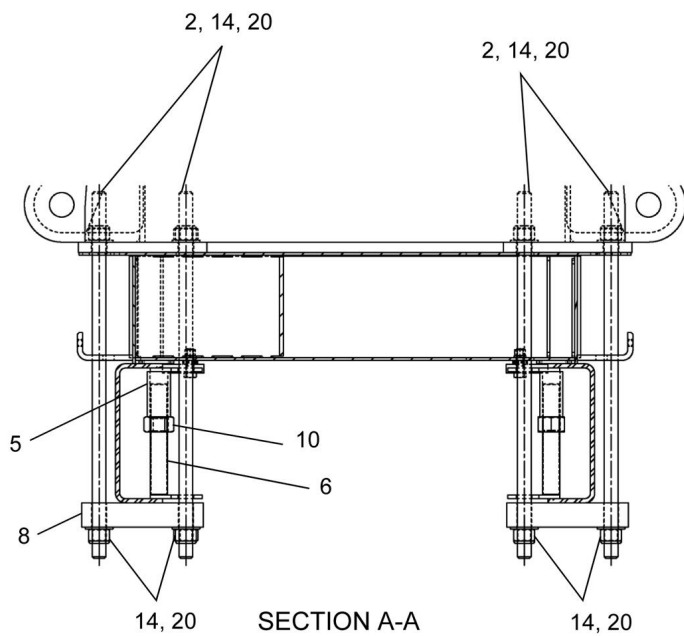
DATE: Revised 04-2018

MODEL: 19-70

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SUBFRAME - MAINFRAME ASSEMBLY

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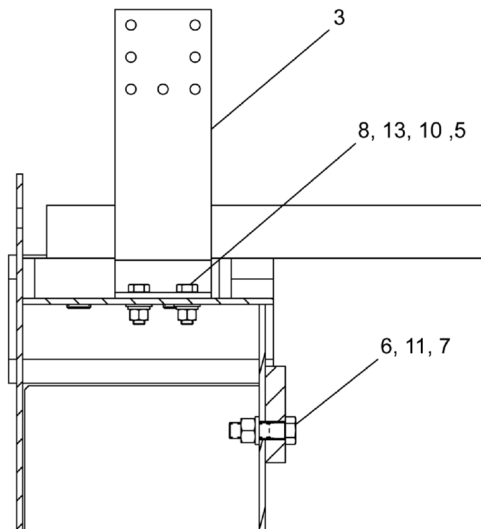
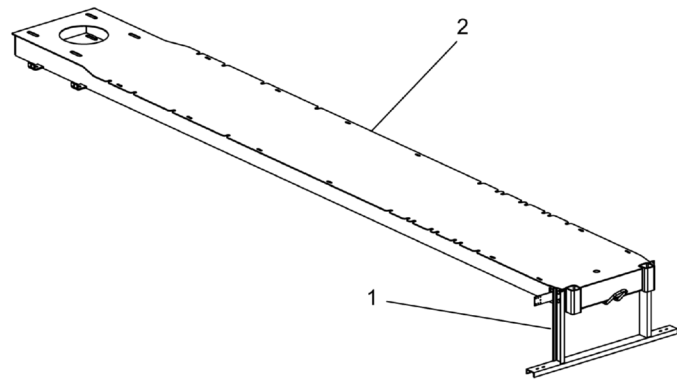
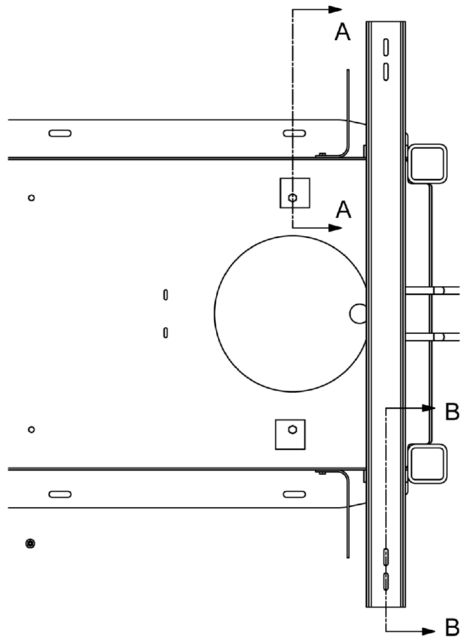
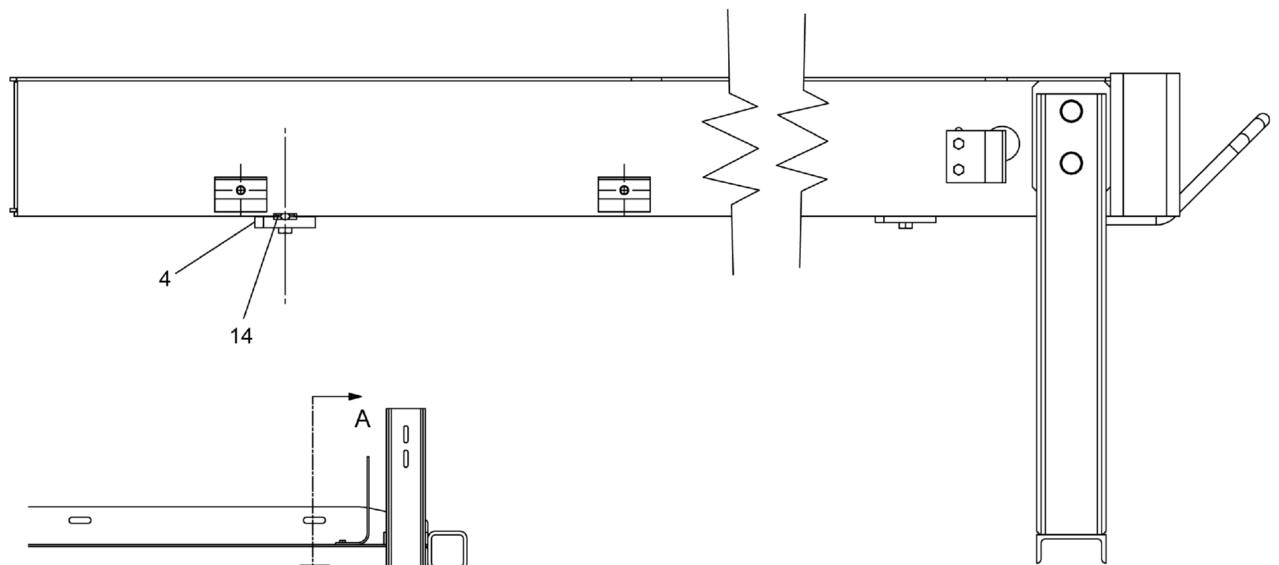
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10018 (Rev. G)	<i>Subframe-Mainframe ASSY</i>	
1	220-07056	Tie Rod	4
2	220-09117	Tiedown Rod, Mainframe 1.00-14 X 26.0	16
3	695-00189	Subframe Assembly (see page 72)	1
4	709-01902-2	Frame Reinforcement	2
5	772-00028	Frame Stiffener Weldment	4
6	772-00029	Frame Stiffener WLDMT	4
7	782-01734	Cross Tube	2
8	789-05767	Tie Down Plate	4
9	789-05852	Tap Block	4
10	N04-A25F000-Y8	Nut, HEX 1.25-12, ST SQC G8	4
11	N05-750F000-Y8	Nut, HEX JAM 0.75-16, ST SQC G8	4
12	N12-750F000-2A	Nut, HEX HVY 0.75-16, ST SQC GA	4
13	NYL-625C000-25	Nut, HEX NYL-INS 0.625-11, ST SQC G5	2
14	NYL-A00S000-Y8	Nut, HX NYL-INS 1.00-14, ST SQC G8	32
15	S01-625CD00-25	SCR, HHCS 0.625-11 X 4.00, ST SQC G5	2
16	T124908	Auxiliary Outrigger Assembly (Gray) (see page 76)	1
17	T127103	Mainframe-Console ASSY (see page 80)	1
18	WAH-62NX000-20	WSH, FL HRD A-NRW 0.625, ST SQC	4
19	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	4
20	WAH-A0NX000-20	WSH, FL HRD A-NRW 1.00, ST SQC	32
21*	12013-20	Fuel Diesel Per SAE J-313	50 GAL

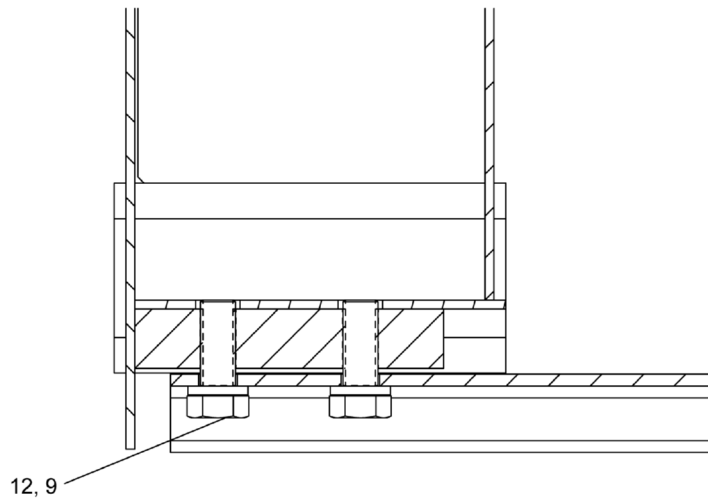
* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	SUBFRAME - MAINFRAME ASSEMBLY	DATE: Revised 04-2018	CHAPTER 1
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SECTION A - A



SECTION B - B

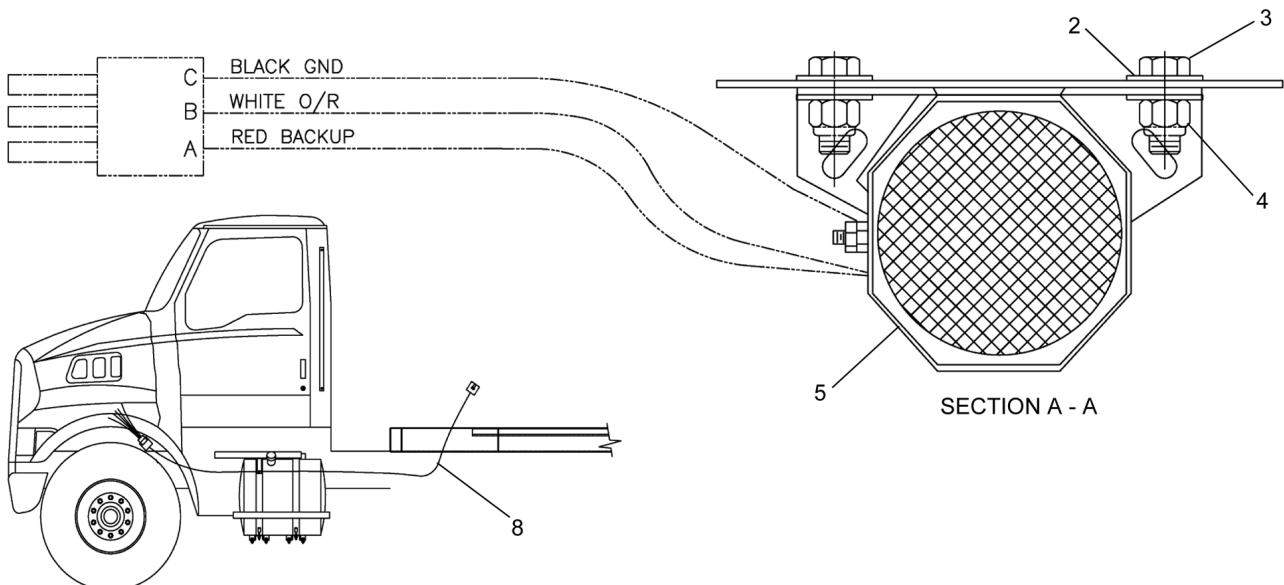
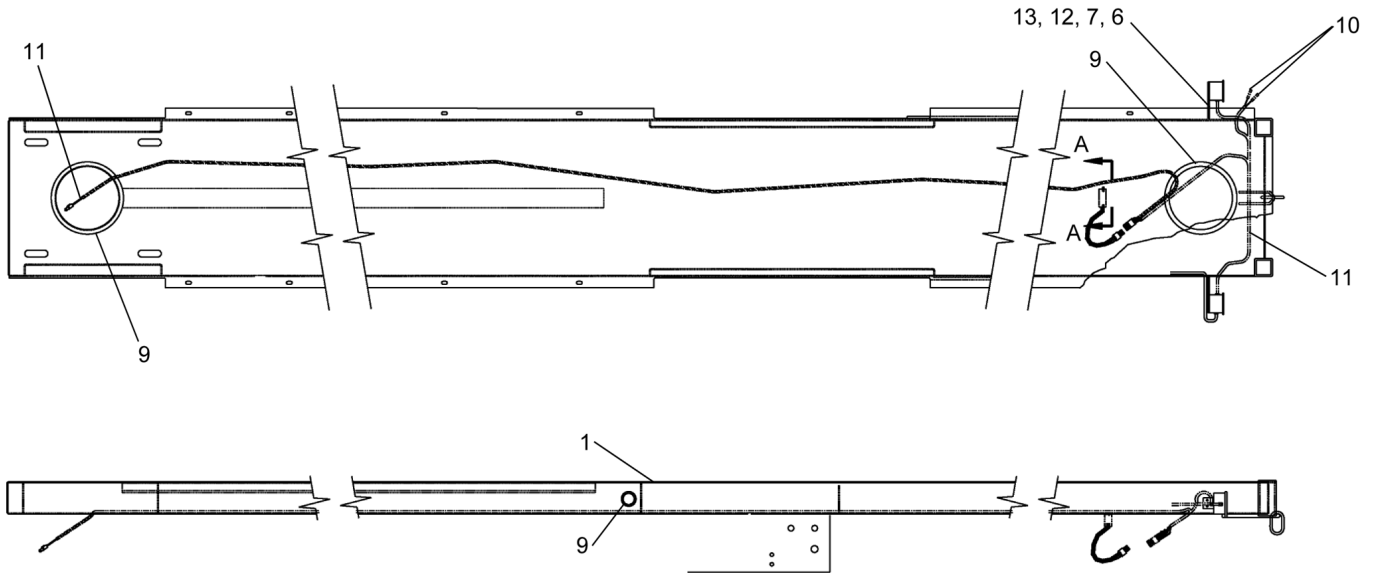
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-00189 (Rev. C)	<i>Subframe Assembly</i>	
1	600-22114	Bumper Weldment	1
2	701-00771	Subframe Weldment	1
3	789-05681	Bracket, Tail Light	2
4	789-05974	Block 3.00 X 3.00 X 0.625	4
5	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	4
6	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	4
7	S01-500CA75-25	SCR, HHCS 0.50-13 X 1.75, ST SQC G5	4
8	SHF-375CA00-25	SCR, HHCS FT 0.375-16 X 1.00, STZ G5	4
9	SHF-750CB00-Y8	SCR, HHCS FT 0.75-10 X 2.00, ST SQC G8	4
10	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	4
11	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
12	W07-750X000-20	WSH, LCK, MED SPLT 0.75, ST SQC	4
13	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	4
14	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	6
15*	400-25214	Assembly Subframe ELEC (see page 74)	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	400-25214 (Rev. B)	<i>Assembly Subframe ELEC</i>	
1	Boom Trucks	Subframe Weldment	REF
2	220-00003	Bolt, HEX HD 1/4 NC x 3/4 LG.	2
3	222-00006	Flatwasher 1/4	2
4	221-90001	Lock Nut, 1/4-20 UNC PLT	2
5	714A1432	Horn Assembly, ECCO #DF532	1
6	221-01001	HEX Nut, 5/16-18 NC Zinc PLT	4
7	222-11002	Lockwasher, 5/16 Zinc PLT	4
8	400-02463	Harness, Main	1
9	209-00174	Seal Trim	10FT
10	400-02230	Terminal-Butt Connection 16/14 GA	2
11	400-25210	Wire Harness, Tail Light - Alarm - O/R	1
12	222-01001	Flatwasher 5/16 Zinc PLT	8
13	220-01003	HHCS, 5/16-18 NC x 1.25 GR5 Zinc	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ELECTRICAL ASSEMBLY SUBFRAME

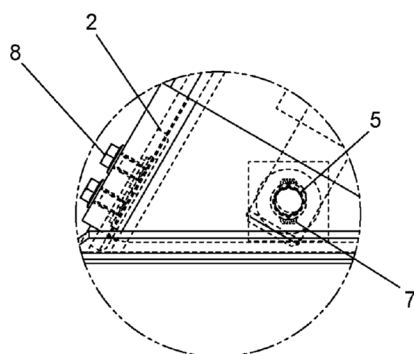
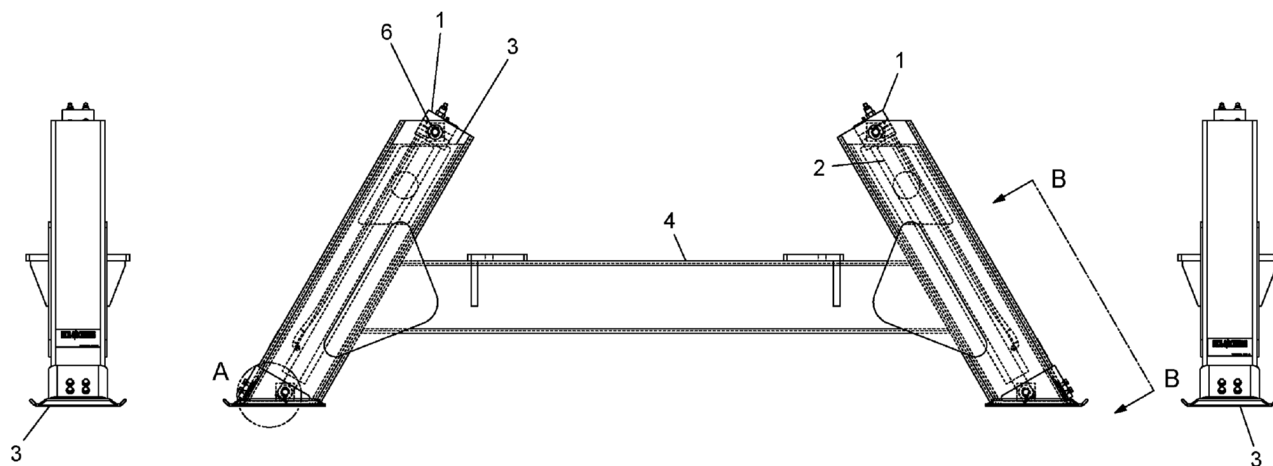
DATE: Revised 12-2013

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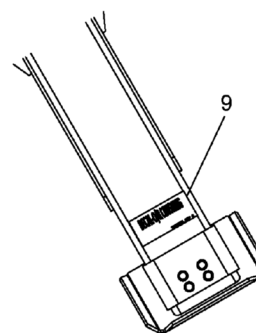
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DETAIL A



VIEW B - B

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



AUXILIARY OUTRIGGER ASSEMBLY (GRAY)

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T124908 (Rev. B)	<i>Auxiliary Outrigger Assembly (Gray)</i>	
1	540-50049	Cylinder, HYD, AUX Outrigger (see page 78)	2
2	729-02820	Wear Pad, AUX Outrigger	2
3	760-20481	Inner Jack Weldment	2
4	760-20482	Housing Weldment, AUX Outrigger	1
5	870-10212	Pin, Outrigger, Bottom	2
6	870-10213	Pin, Outrigger, Top	2
7	REX-750X078-BP	Ring, EXTSNP HVY 0.75 X 0.078, ST BP	8
8	SFS-375C750-27	SCR, HXFLG SER 0.375 - 16 X 0.75, G8.2	8
9	T116671	Decal, A Frame Outrigger Crush	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



AUXILIARY OUTRIGGER ASSEMBLY (GRAY)

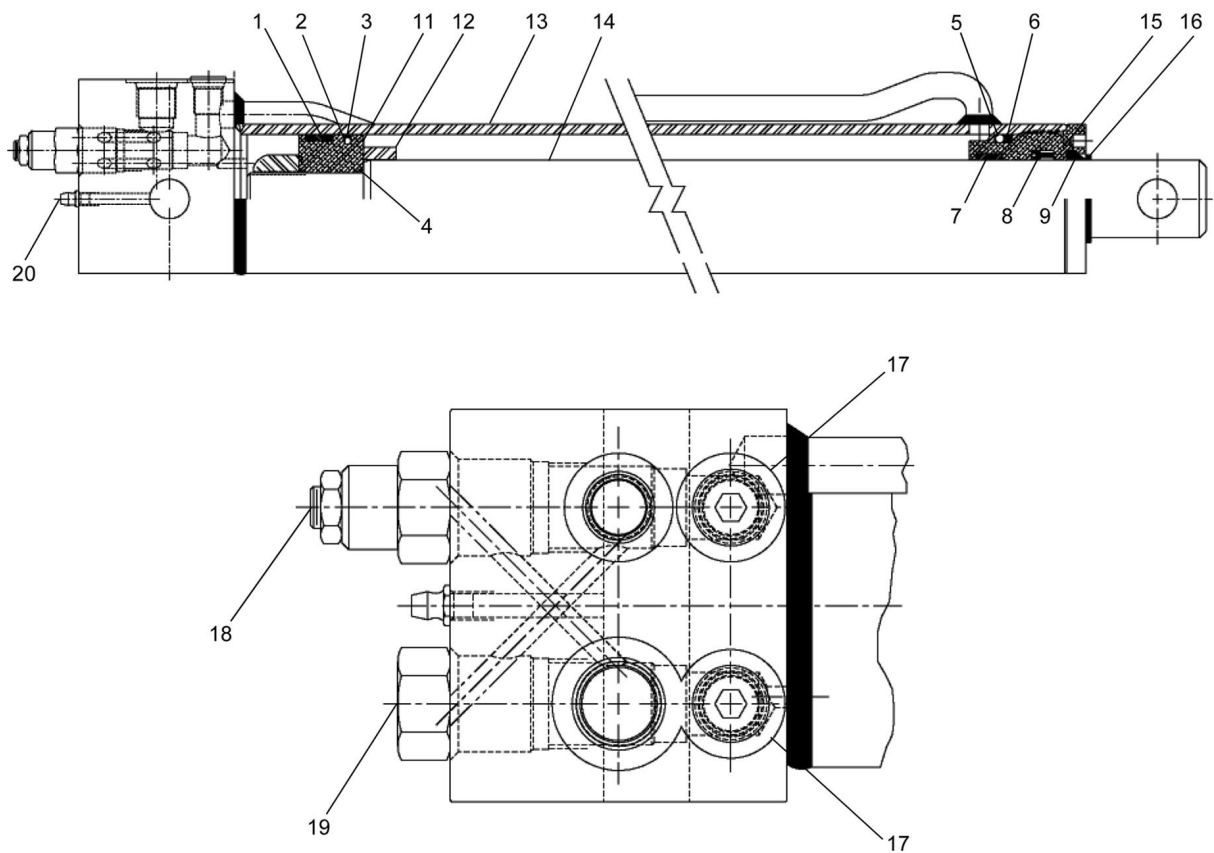
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



AUXILIARY OUTRIGGER CYLINDER

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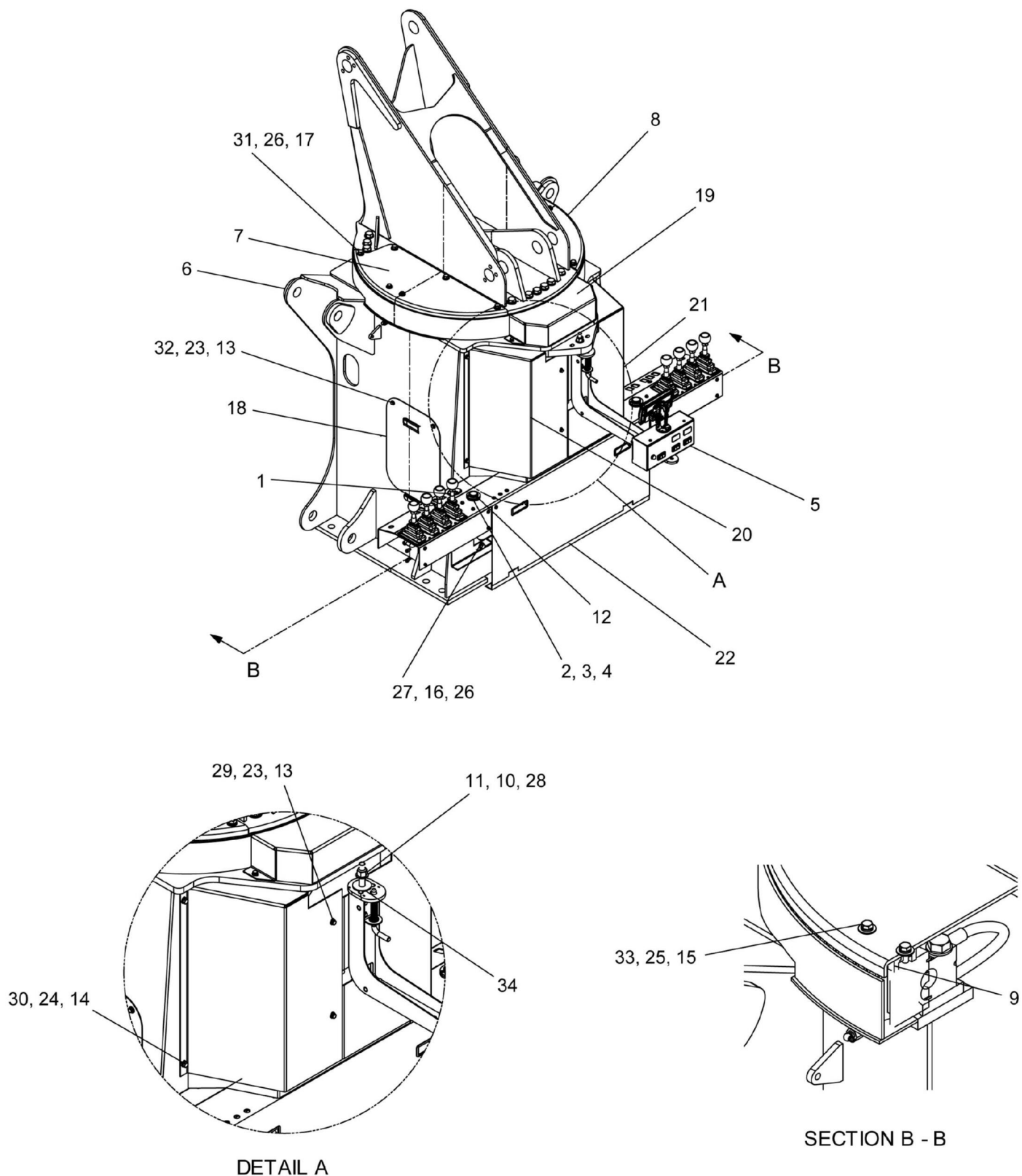
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	540-50049 (Rev. 00)	<i>Cylinder, HYD, AUX Outtrigger</i>	
	268-90196	Seal Kit (Items 1 thru 9)	1
1	PART OF 268-90196	Rod Wiper	1
2	PART OF 268-90196	Rod Wiper	1
3	PART OF 268-90196	Rod Wiper	1
4	PART OF 268-90196	Rod Wiper	1
5	PART OF 268-90196	Rod Wiper	1
6	PART OF 268-90196	Rod Wiper	1
7	PART OF 268-90196	Rod Wiper	1
8	PART OF 268-90196	Rod Wiper	1
9	PART OF 268-90196	Rod Wiper	1
10*	812-00015	Lock Nut	1
11	812-00063	Piston	1
12	812-00064	Spacer	1
13	812-00065	Barrel Assembly	1
14	812-00066	Rod	1
15	812-00043	Internal Head	1
16	812-00067	Square Ring	1
17	812-00014	Steel Plug	2
18	552-00144	Counter Balance Valve	1
19	226837	Check Valve	1
20	226878	Grease Zerk	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	AUXILIARY OUTRIGGER CYLINDER	DATE: Revised 12-2013	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAINFRAME - CONSOLE ASSEMBLY

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REF	PART NO.	DESCRIPTION	QTY
	T127103 (Rev. C)	<i>Mainframe-Console ASSY</i>	
1	1245-162	Meter, Hour	1
2	209-00831	BRKT, Bubble Level Mounting	2
3	209-00832	Bubble Level	2
4	263-00044	Gasket-Level Mounting	2
5	695-10021	Switch Box ASSY, Outriggers (see page 82)	1
6	700-01000	Mainframe - Turret Assembly (see page 88)	1
7	719-00478	Cover, Bearing -RH	1
8	719-00479	Cover, Bearing -LH	1
9	729-02235	Wear Pad, 6.75 X 1.75 X 0.75	2
10	NYL-625C000-25	Nut, HEX NYL-INS 0.625-11, ST SQC G5	1
11	S01-625CC25-Y8	SCR, HHCS 0.625-11 X 3.25, ST SQC G8	1
12	S16-164C750-20	SCR, FHS HCS 08-32 X 0.75, ST SQC	6
13	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	8
14	SHF-312C750-25	SCR, HHCS FT 0.312-18 X 0.75, ST SQC G5	4
15	SHF-375C875-25	SCR, HHCS FT 0.375-16 X 0.875, ST SQC G5	4
16	SHF-500C750-25	SCR, HHCS FT 0.50-13 X 0.75, ST SQC G5	4
17	SHF-500CA00-25	SCR, HHCS FT 0.50-13 X 1.00, ST SQC G5	8
18	T110469	ASSY, Mainframe Access CVR (see page 90)	2
19	T126910	Cover, Pinion	1
20	T126913	Cover, Swing Motor	1
21	T127085	Cover ASSY, Swing Motor (see page 91)	1
22	T127087	Control Console ASSY (see page 92)	1
23	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	8
24	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	4
25	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	4
26	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	12
27	WAH-50NX000-20	WSH, FL HRD A-NRW 0.50, ST SQC	4
28	WAH-62NX000-20	WSH, FL HRD A-NRW 0.625, ST SQC	1
29	WAN-25NX000-20	WSH, FL TYP A-NRW 0.25, ST SQC	4
30	WAN-31NX000-20	WSH, FL TYP A-NRW 0.3125, ST SQC	4
31	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	8
32	WBR-25RX734-20	WSH, FL TYP B - REG 0.25, ST Z	4
33	WBR-37RXA00-20	WSH, FL TYP B - REG 0.375, ST Z	4
34	WFT-625XB00-20	WSH, FNDR 0.625 X 2.00 X 0.125, ST SQC	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAINFRAME - CONSOLE ASSEMBLY

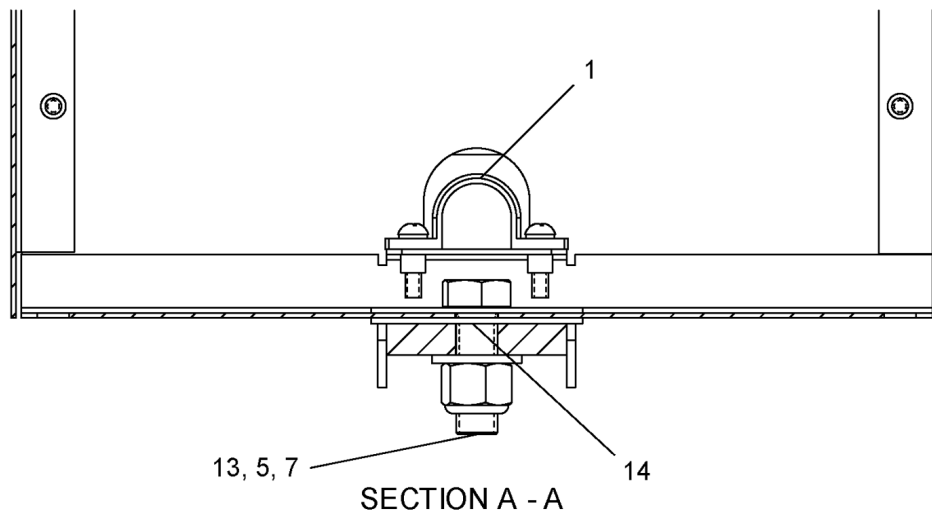
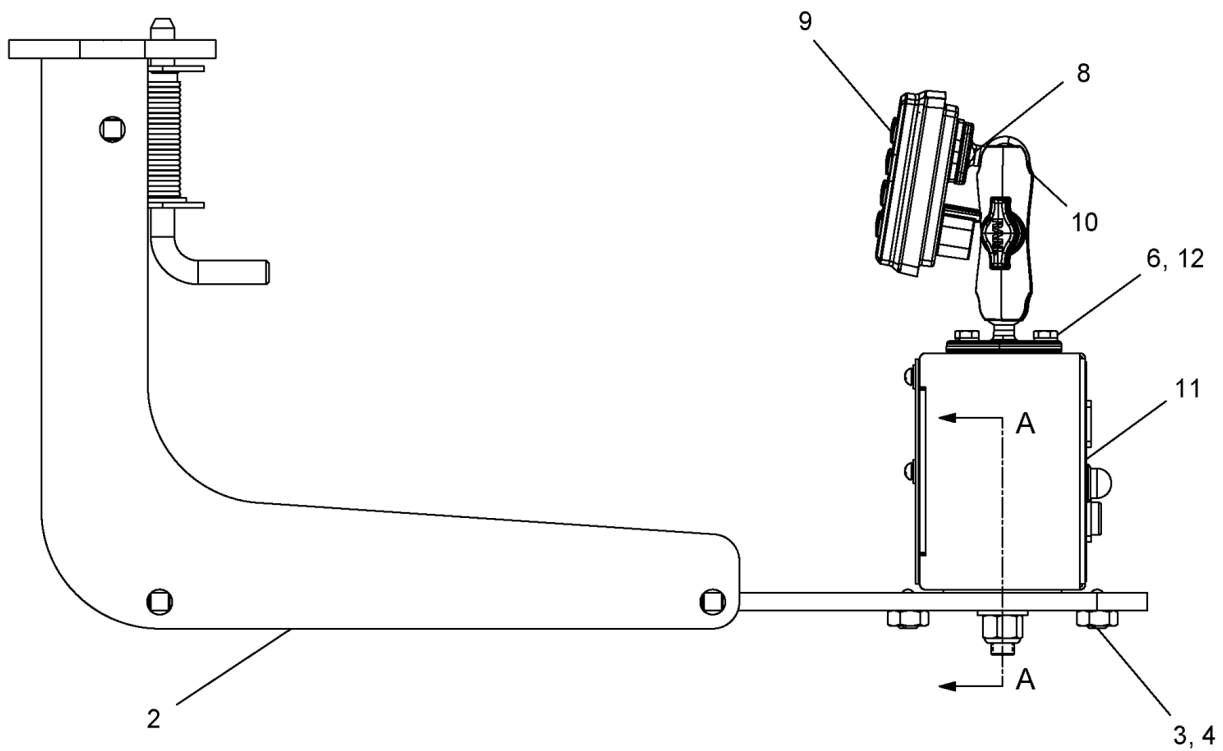
DATE: Revised 04-2018

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SWITCH BOX ASSEMBLY, OUTRIGGERS

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10021 (Rev. C)	Switch Box ASSY, Outriggers	
1	201-00264	Strap, Rigid Plastic	1
2	770-02822	Swing ARM Weldment	1
3	870-00173-5	Ball, Spring Plunger	2
4	N05-500C000-25	Nut, HEX Jam 0.50-13, ST Z GR5	2
5	NYL-500C000-25	Nut, HEX NYL-INS 0.50-13, ST Z G5	1
6	SHF-250C625-25	SCR, HHCS FT 0.25-20 X 0.625, STZ G5	3
7	SHF-500CA50-25	SCR, HHCS FT 0.50-13 X 1.50, ST SQC G5	1
8	SL5-164C500-20	SCR, CR RND MS 8-32X0.500, ST Z	2
9	695-10021-Display	Display, Greer Insight (see page 84)	1
10	T119215	Ram Mount, Greer Insight Display	1
11	T122074	ASSY, Outrigger Box (see page 85)	1
12	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	3
13	WAN-50NX000-20	WSH, FL TYPA-NRW 0.50, ST SQC	1
14	WFD-500XB50-20	WSH, FNDR 0.50X2.50, ST Z	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SWITCH BOX ASSEMBLY, OUTRIGGERS

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CHAPTER

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10021-Display (Rev. 00)	Display, Greer Insight	
1	T117745	Display, Greer Insight	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



VGA DISPLAY, GREER INSIGHT

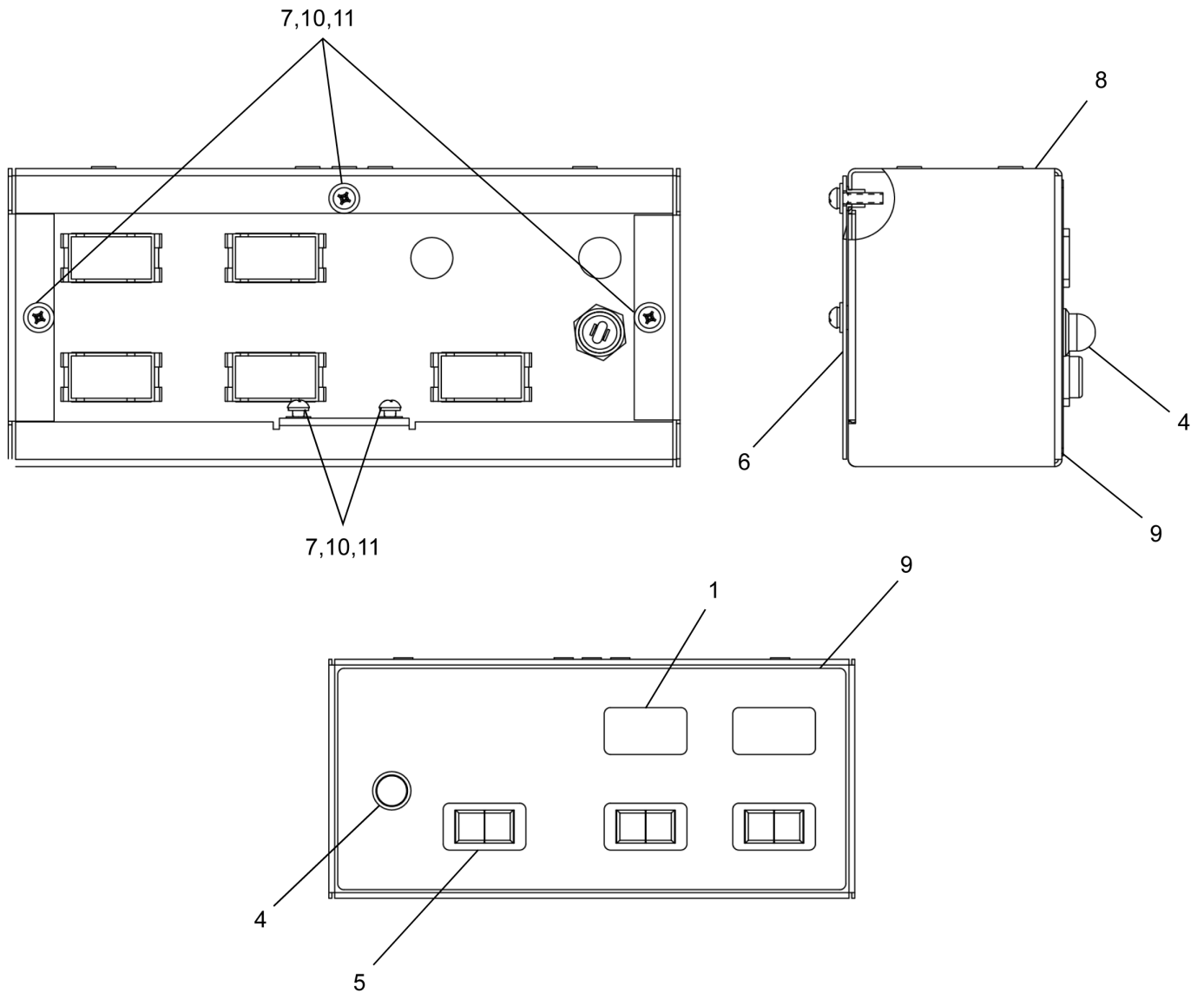
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



OUTRIGGER, COTROL BOX ASSEMBLY

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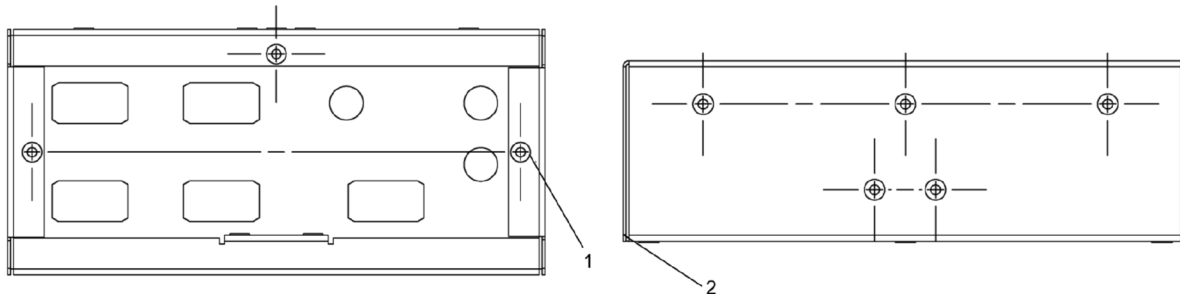
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T122074 (Rev. C)	ASSY, Outrigger Box	
1	1223-1006	Hole Plug SW	2
2*	1223-1020	Socket	1
3*	1223-1021	Lamp 12 V	1
4	1223-1022	Lens Red	1
5	1223-1051	SW Rocker DPDT	3
6	402-00047	Cover, Switch Box, Outrigger	1
7	SL5-190C750-20	SCR, CREC RND MS 10-24X0.75, ST Z	5
8	T121958	Outrigger Switch Box ASSY (see page 87)	1
9	T132436	Decal, Outrigger Controls (A-Frame)	1
10	W07-190X000-20	WSH, LCK, MED SPLT 10, ST SQC	5
11	WAR-190X000-22	WSH, FL TYPA-REG 10, ST SQC G2	3

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	OUTRIGGER, COTROL BOX ASSEMBLY	DATE: Revised 11-2016	CHAPTER 1
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REF	PART NO.	DESCRIPTION	QTY
	T121958 (Rev. B)	<i>Outrigger Switch Box ASSY</i>	
1	T11-190C000-CD	Thread - SERT 10-24, ST CAD	10
2	T121959	Switch Box, Outriggers	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



OUTRIGGER CONTROL BOX ASSEMBLY

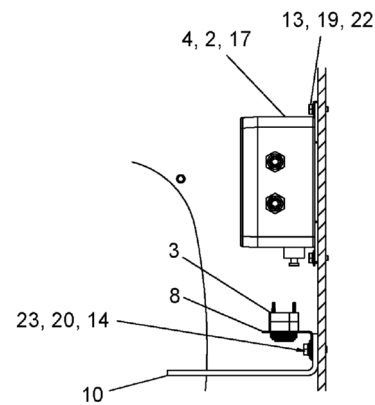
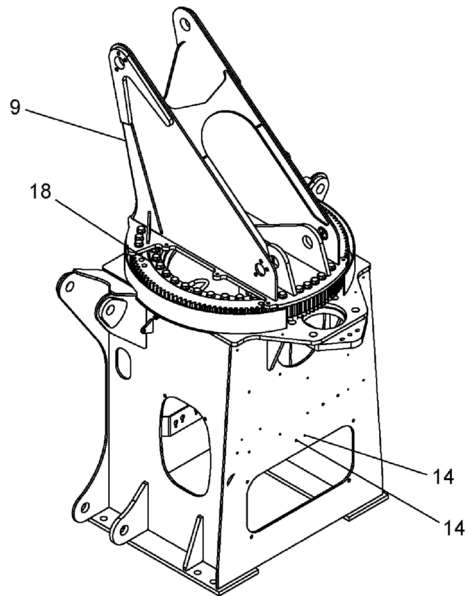
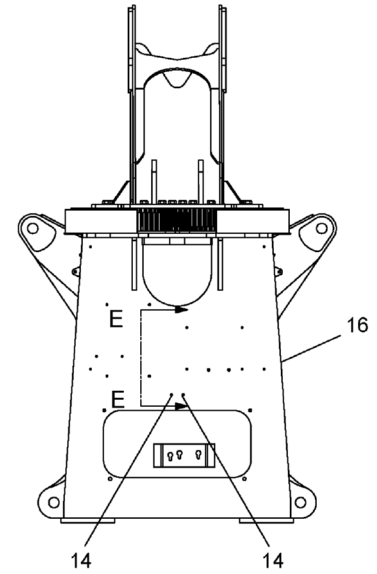
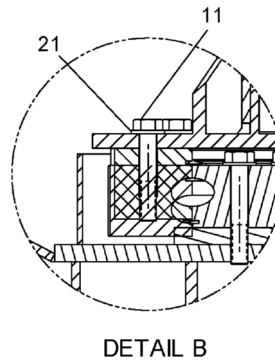
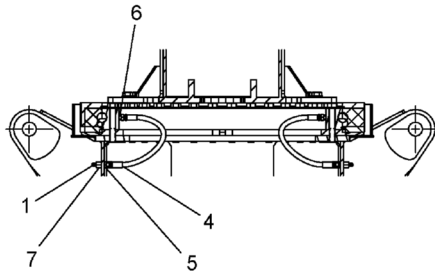
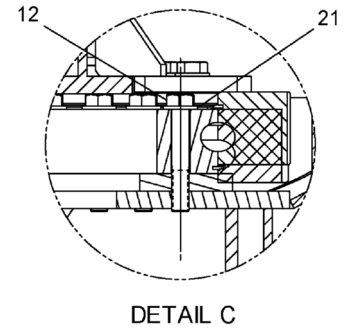
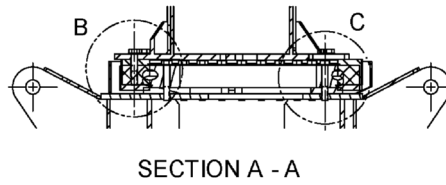
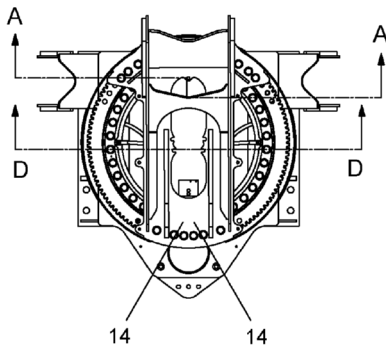
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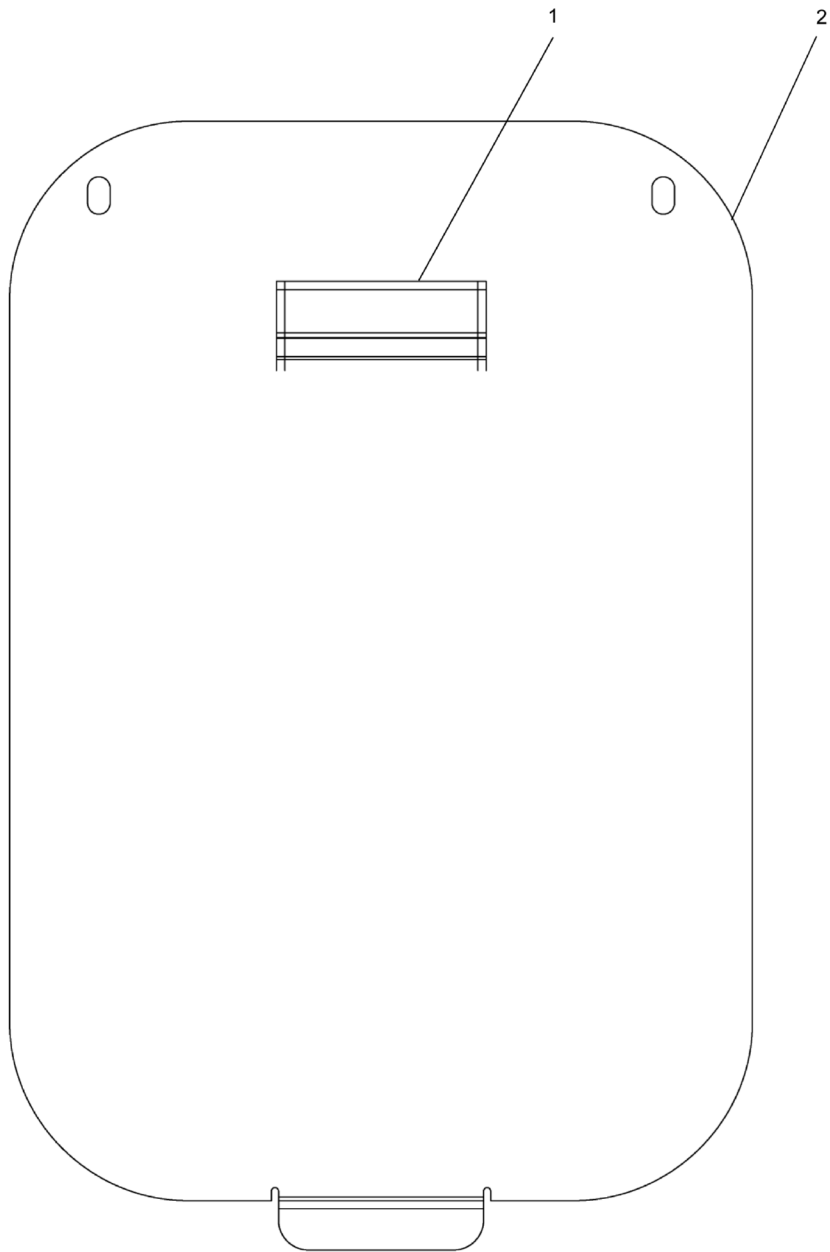
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	700-01000 (Rev. F)	<i>Mainframe - Turret Assembly</i>	
1	1213-06	Grease FTG, ZERK, 0.125NPT 90°	2
2	400-16139	ELEC Cable, Greer WAD 32' Long	1
3	450-0006	Alarm	1
4	502-00191	Grease Line Hose, BRG	2
5	511-21001	Jam Nut (TMPKNS 306-04)	2
6	513-20029	Adapter, MOFS-4/MNPT-2	2
7	518-20001	CONN BH F 0.125 NPT X M 0.25 JIC	2
8	709-6827	Bracket	1
9	712-00281	Turret Weldment	1
10	785-01678	Support Angle, Swing Stop	1
11	S01-750CD00-Y8	SCR, HHCS 0.75-10 X 4.00, ST YZ GR8	20
12	S01-750CD50-Y8	SCR, HHCS 0.75-10 X 4.50, ST YZ GR8	36
13	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	4
14	SHF-312C875-25	SCR, HHCS FT 0.312-18 X 0.875, STZG5	2
15*	T117809	Harness, RCI Power	1
16	T122785	Mainframe Weldment	1
17	T132578	Computer, Greer A450858	1
18	T151341	Bearing, Swing	1
19	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	4
20	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	2
21	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	56
22	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	4
23	WBR-31RX875-20	WSH, FL TYPB-REG 0.3125, ST Z	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	MAINFRAME TURRET ASSEMBLY	DATE: Revised 04-2019	CHAPTER 1
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T110469 (Rev. A)	ASSY, Mainframe Access CVR	
1	809-00514-3	Handle	1
2	802-01682	Mainframe Access Cover	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAINFRAME ACCESS COVER ASSEMBLY

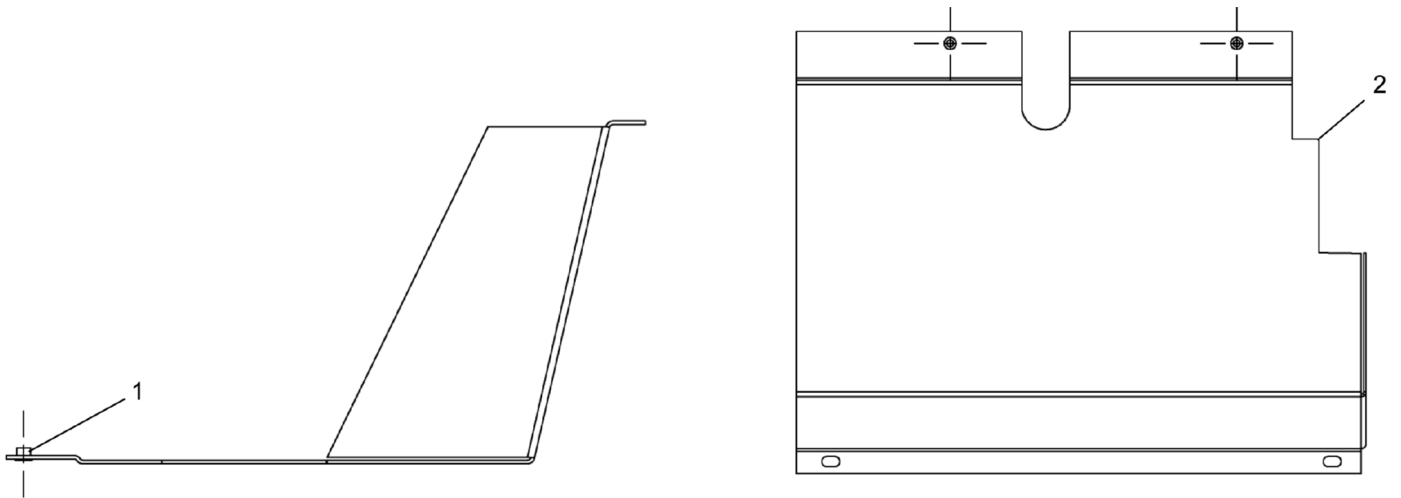
DATE: Revised 08-2011

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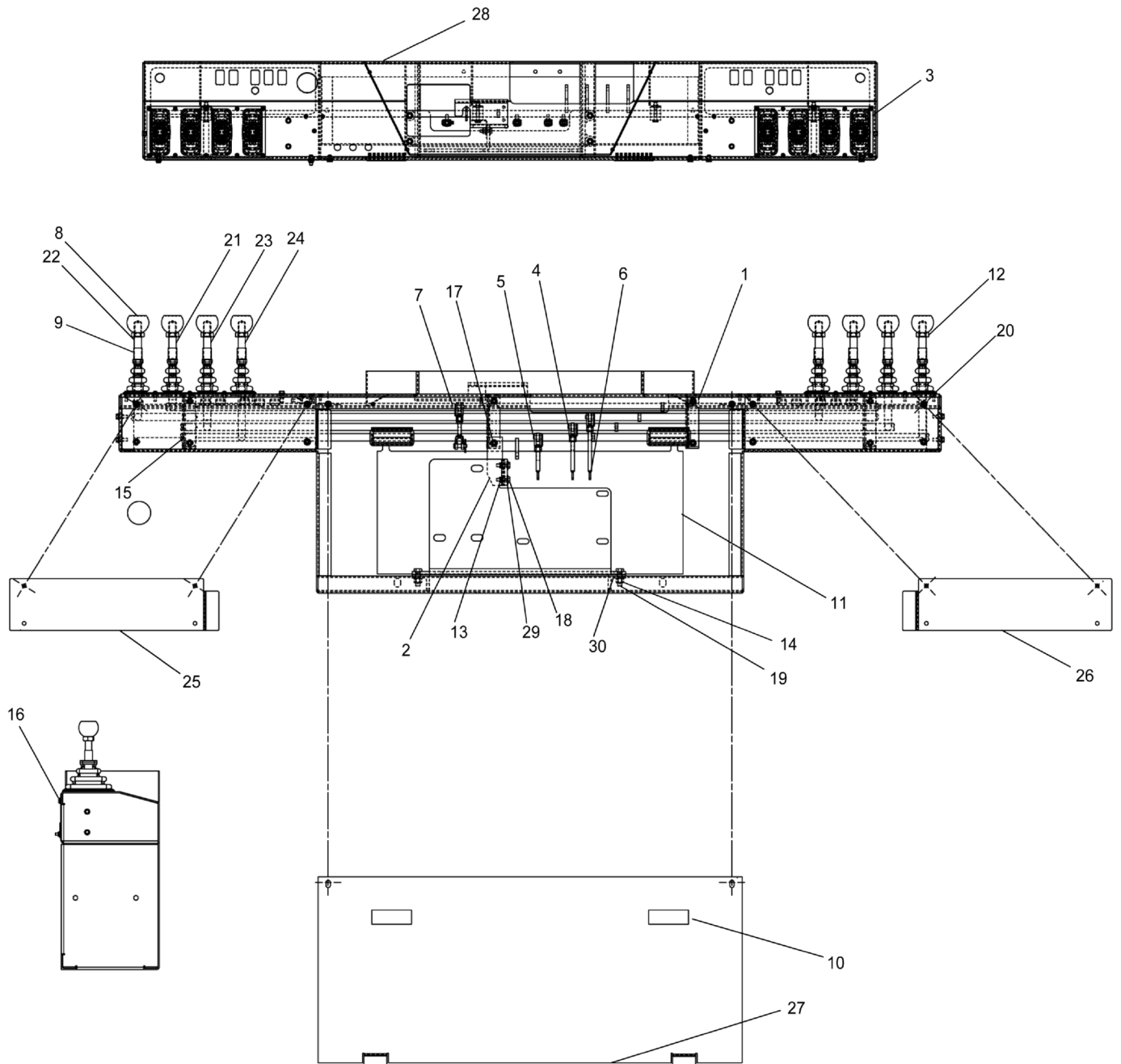
CHAPTER

1



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T127085 (Rev. A)	Cover ASSY, Swing Motor	
1	T11-250C000-CD	Thread-SERT 0.25-20, ST CAD	2
2	T127084	Swing Motor Cover	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CONTROL CONSOLE ASSEMBLY

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T127087 (Rev. C)	Control Console ASSY	
1	709-01858	Bearing Block- Control Handle	8
2	789-05882	BRKT, BLABE MTG. Lever Support	1
3	789-05883	Boot Hold Down Plate	2
4	806-00267	Control Link ASSY, Boom Tele (see page 94)	1
5	806-00268	Control Link ASSY, Swing (see page 95)	1
6	806-00269	Control Link ASSY, Boom Hoist (see page 96)	1
7	806-00272	Console Link ASSY Winch (see page 97)	1
8	808-00048	DIMCO Part # 1-274- 070	8
9	809-00501	Shift Boot, PVC Molded	4
10	809-00514-3	Handle	2
11	809-00520	BRKT, Valve MTG	1
12	N05-625C000-25	Nut, HEX JAM 0.625 -11, ST Z GR5	8
13	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	2
14	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	4
15	P22-125XA00-GP	Pin, Spring SLTD 0.125X1.00, ST	8
16	SFL-250C500-B8	SCR, HEX FLNG 0.25-20X 0.50, GR8	10
17	SFL-250CA75-B8	SCR, HEX FLNG 0.25-20X1.75, GR8	8
18	SHF-250CA00-25	SCR, HHCS FT 0.25-20X1.00, ST Z G5	2
19	SHF-375CA25-25	SCR, HHCS FT 0.375 - 16X1.25, STZ G5	4
20	SL5-190C750-20	SCR, CREC RND MS 10-24X0.75, ST Z	20
21	T127068	Control Handle, Winch	1
22	T127069	Control Handle, Boom Hoist	1
23	T127070	Control Handle, Boom Tele	1
24	T127071	Control Handle, Swing	1
25	T127115	Console Cover, S.S. End	1
26	T127116	Console Cover, C.S. End	1
27	T127117	Console Cover, Center Section	1
28	T130477	Console ASSY	1
29	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	4
30	WBR-37RXA00-20	WSH, FL TYPB - REG 0.375, ST Z	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CONTROL CONSOLE ASSEMBLY

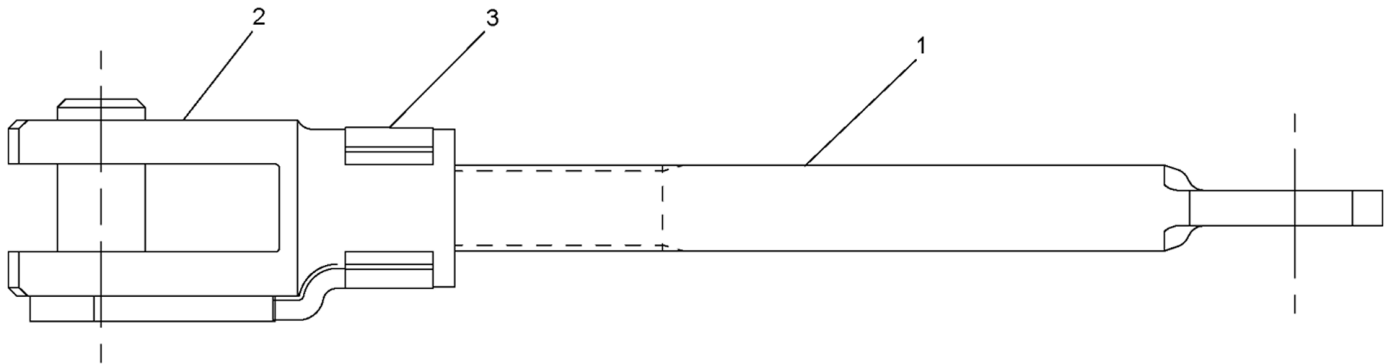
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	806-00267 (Rev. 00)	Control Link ASSY, Boom Tele	
1	806-00270-2	Control Link Rod 5/16-24X3.50	1
2	809-00510	Clevis Fork 0.3125	1
3	809-00511	Clevis Bracket Weldment 0.3125	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CONTROL LINK ASSY, BOOM TELE

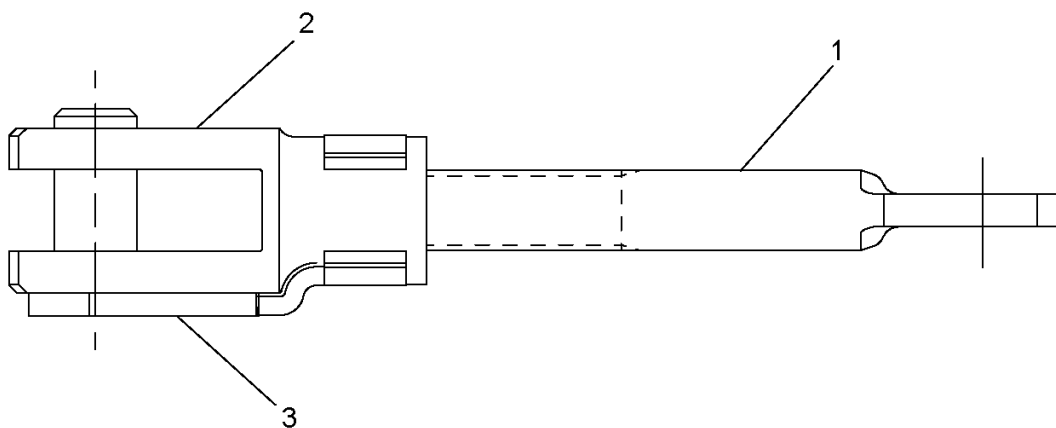
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	806-00268 (Rev. 00)	<i>Control Link ASSY, Swing</i>	
1	806-00270-1	Control Link Rod 5/16-24X2.63 Zinc	1
2	809-00510	Clevis Fork 0.3125	1
3	809-00511	Clevis Bracket Weldment 0.3125	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CONTROL LINK ASSY, SWING

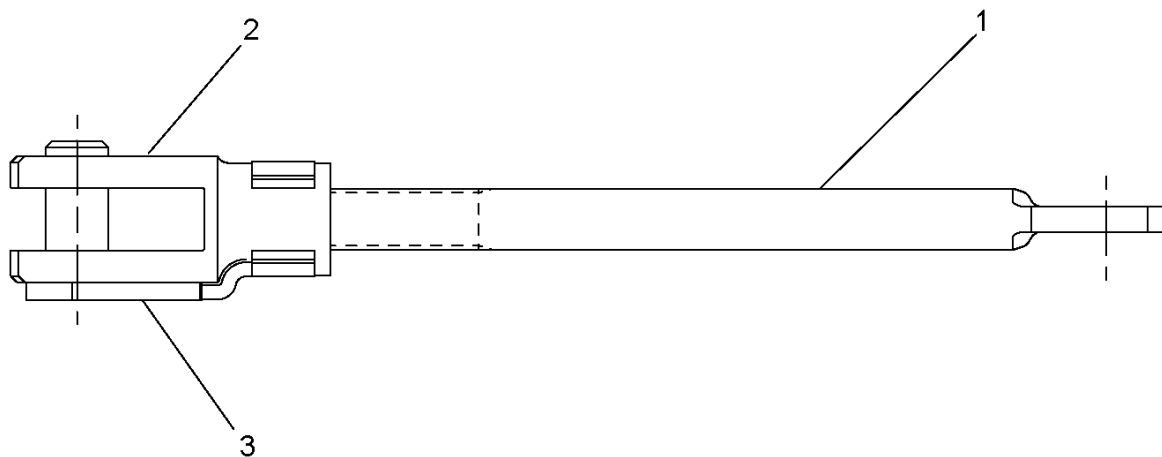
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	806-00269 (Rev. 00)	Control Link ASSY, Boom Hoist	
1	806-00270-3	Control Link Rod 0.3125-24X4.00	1
2	809-00510	Clevis Fork 0.3125	1
3	809-00511	Clevis Bracket Weldment 0.3125	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CONTROL LINK ASSY, BOOM HOIST

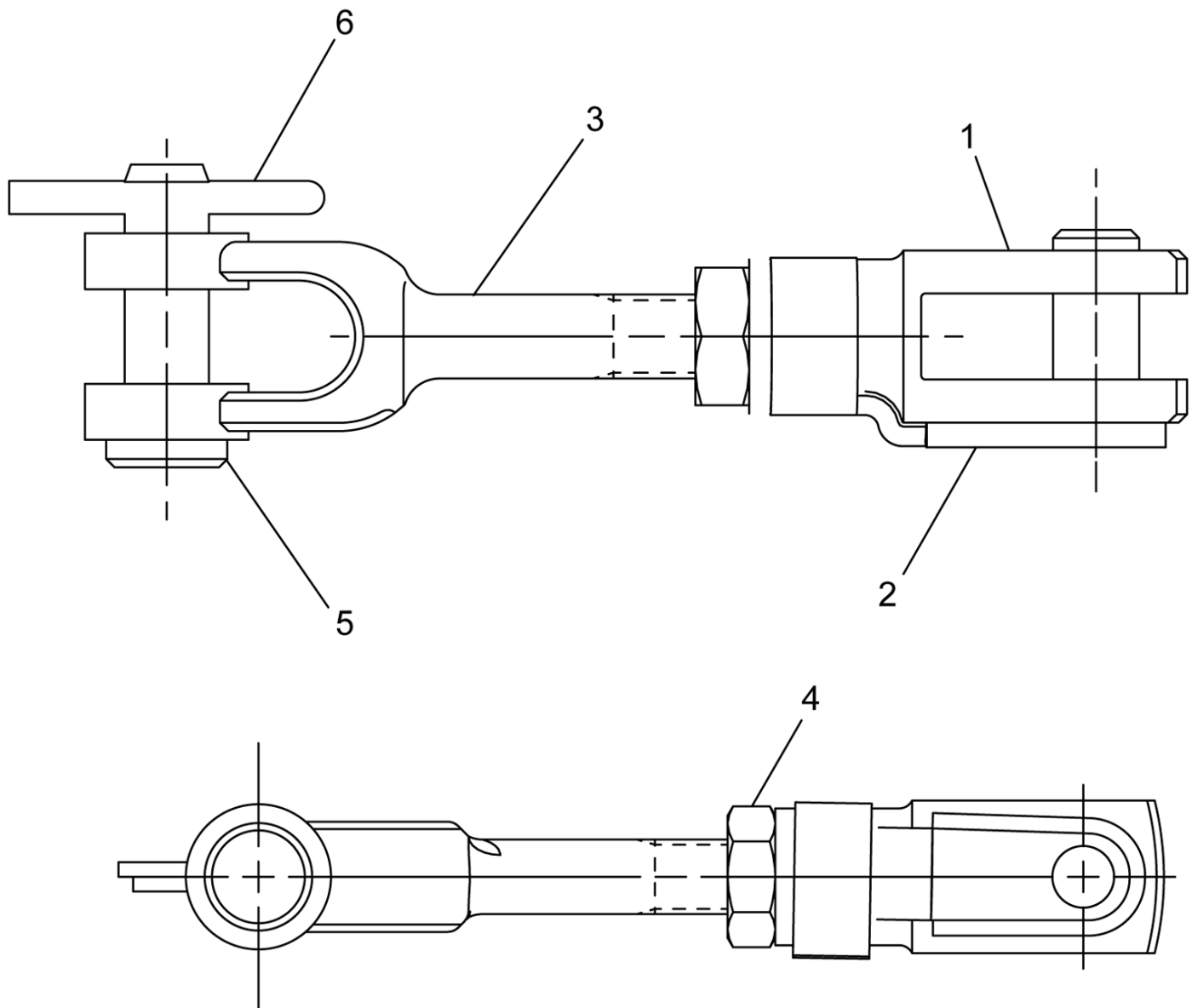
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REF	PART NO.	DESCRIPTION	QTY
	806-00272 (Rev. B)	Console Link ASSY Winch	
1	809-00510	Clevis Fork 0.3125	1
2	809-00511	Clevis Bracket Weldment 0.3125	1
3	809-00516	Clevis, Male Yoke 5/16-24X1.63	1
4	N05-312F000-25	Nut, HEX Jam 0.3125-24, ST SQC G5	1
5	P01-312XA00-P0	Pin, Clevis 0.3125 X 1.00, STL	1
6	P02-125X750-20	Pin, Cotter 0.125 X 0.75, ST SQC	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CONSOLE LINK ASSEMBLY, WINCH

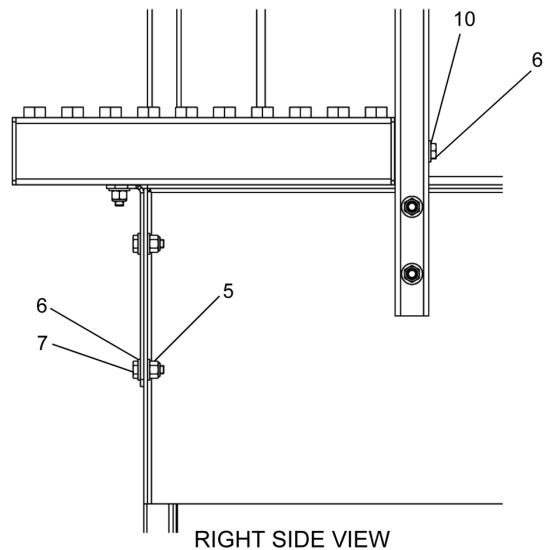
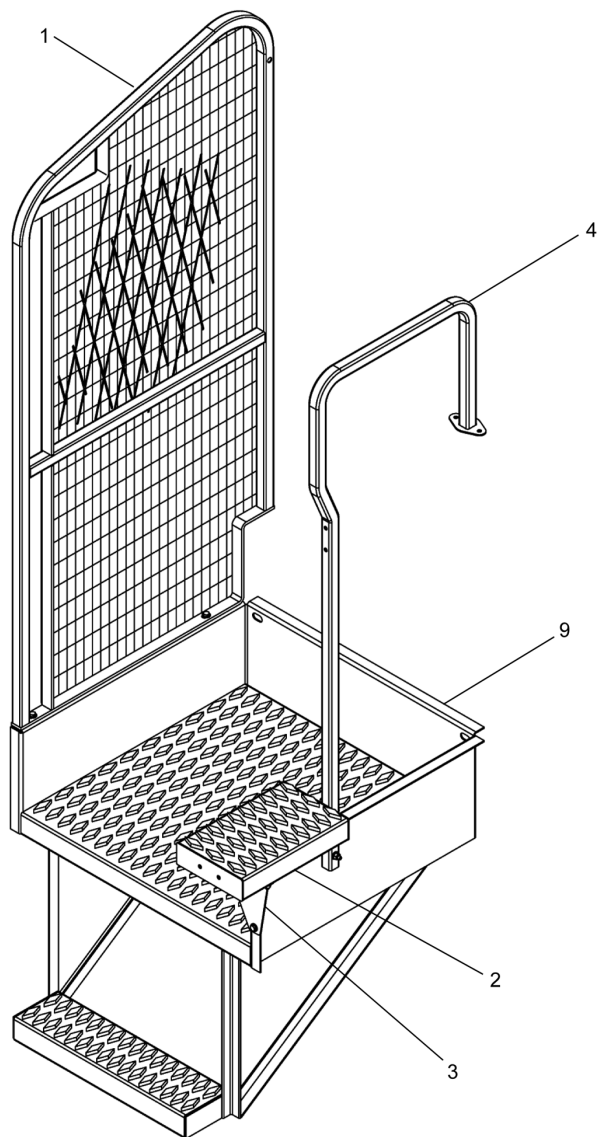
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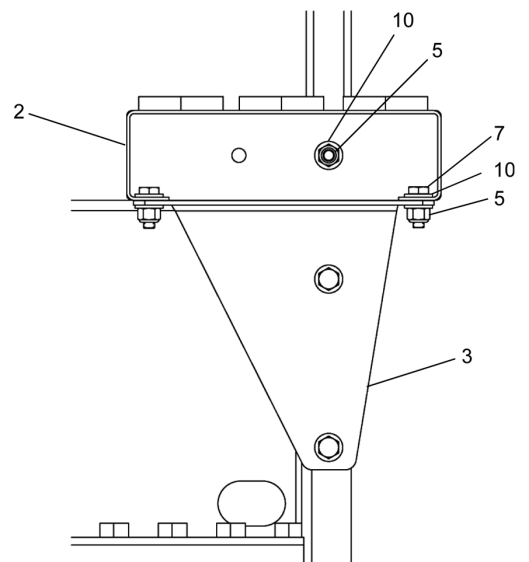
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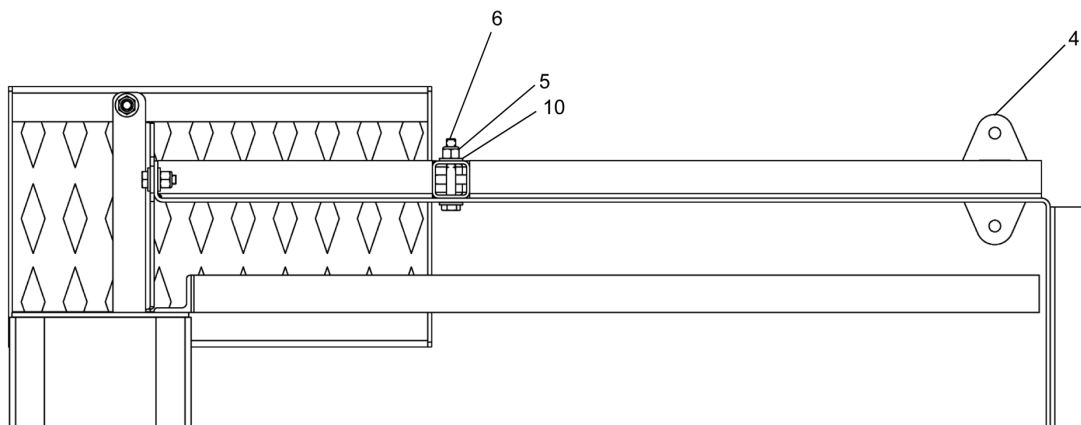
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RIGHT SIDE VIEW



FRONT VIEW



BOTTOM VIEW

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10026-1 (Rev. B)	<i>Platform U.S Street Side</i>	
1	709-01880	Rear Guard, Platform	1
2	709-01883	Step Weldment	1
3	789-05845	Bracket, Platform Step	1
4	809-00512	Console Handle Weldment	1
5	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	9
6	S01-250CA75-25	SCR, HHCS 0.25-20X1.75, ST Z GR5	3
7	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	4
8	SHF-250C875-25	SCR, HHCS FT 0.25-20X0.875, ST Z G5	2
9	T114085	Platform Weldment-Street Side	1
10	WAN-25NX000-20	WSH, FL TYP A-NRW 0.25, ST SQC	18

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PLATFORM U.S. STREET SIDE

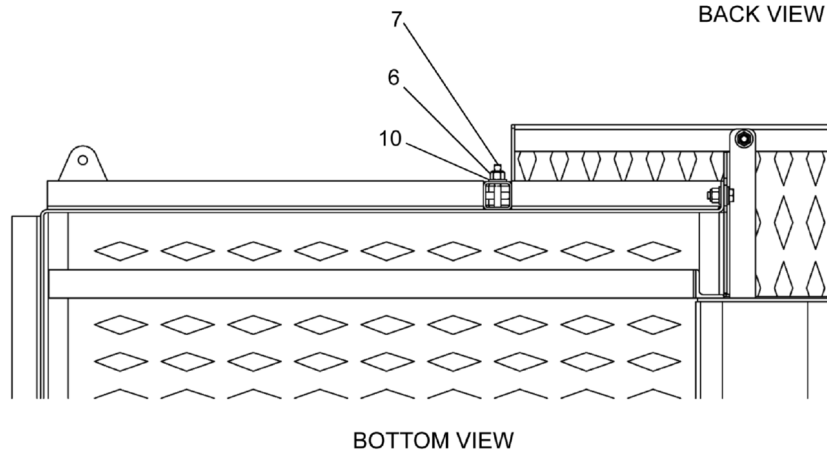
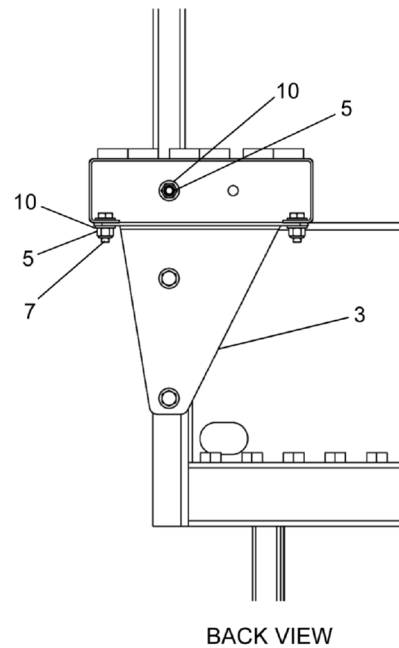
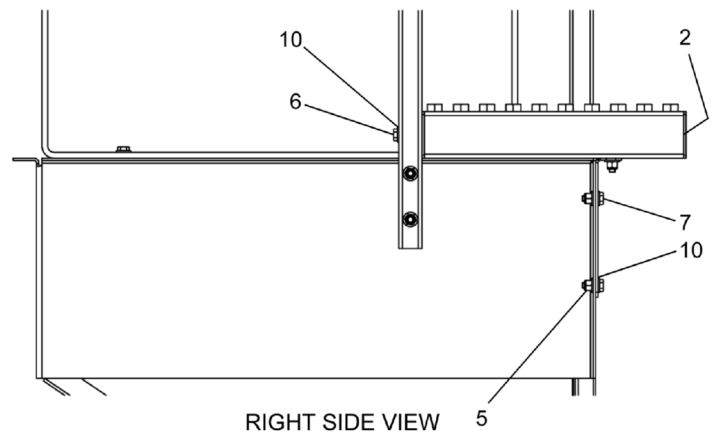
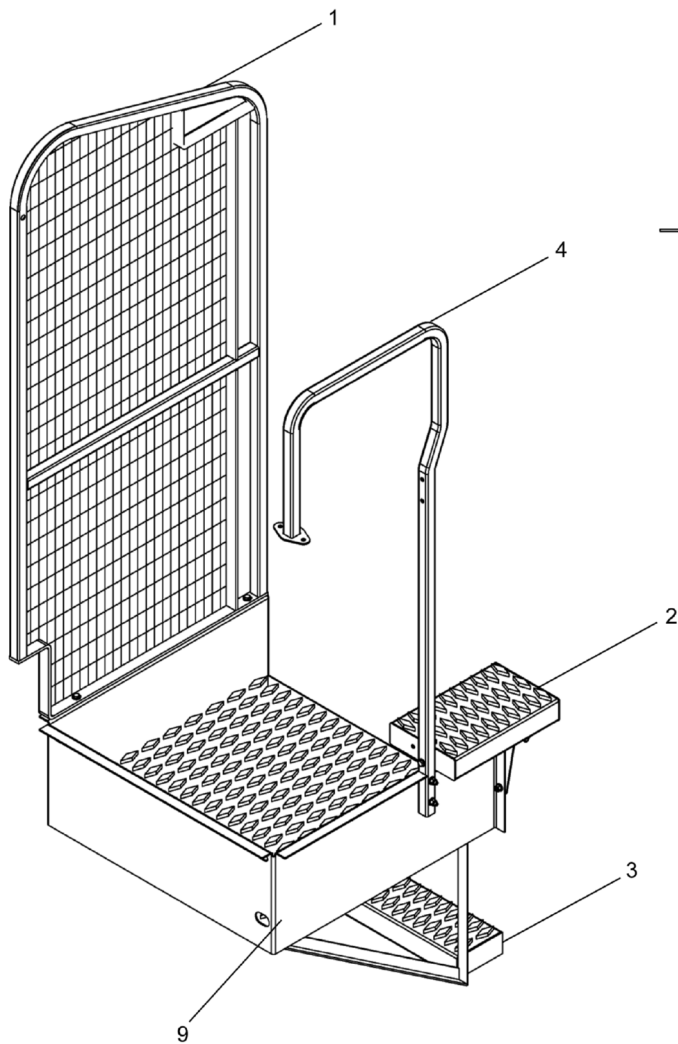
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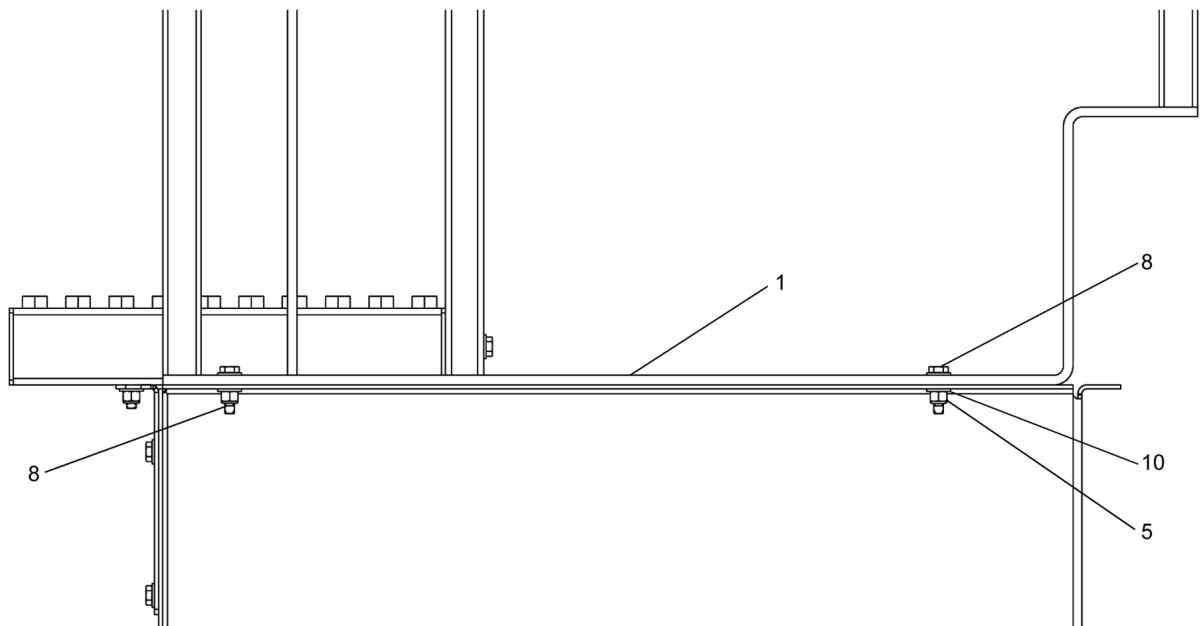
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



LEFT SIDE VIEW

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PLATFORM U.S. CURB SIDE

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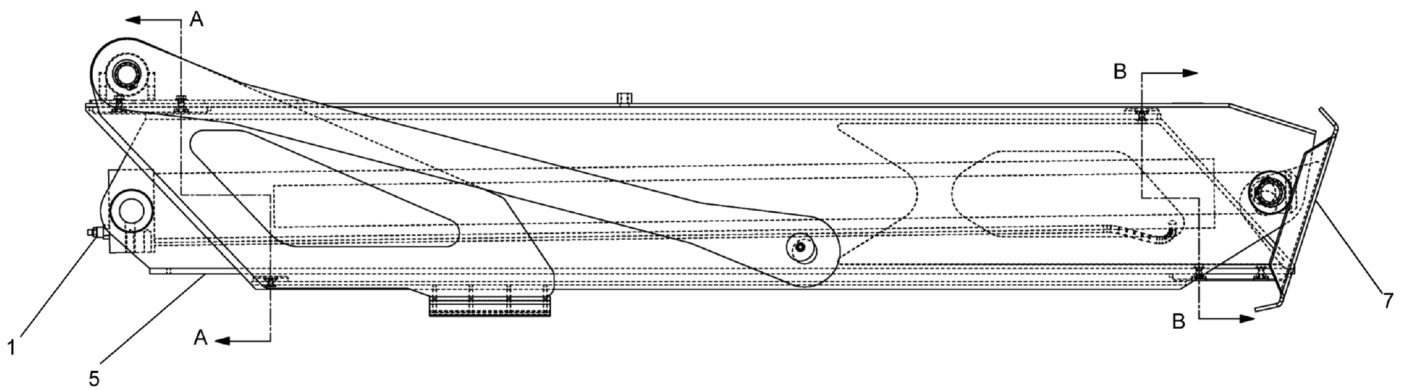
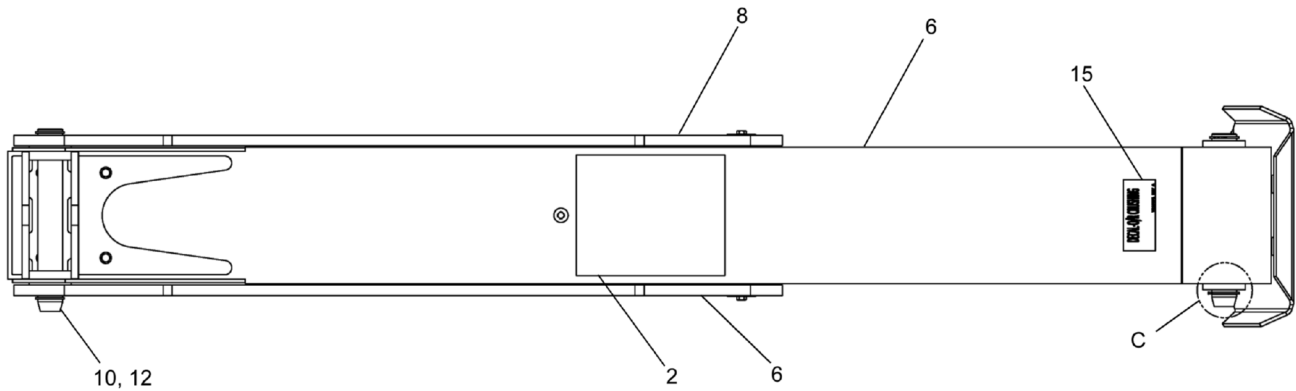
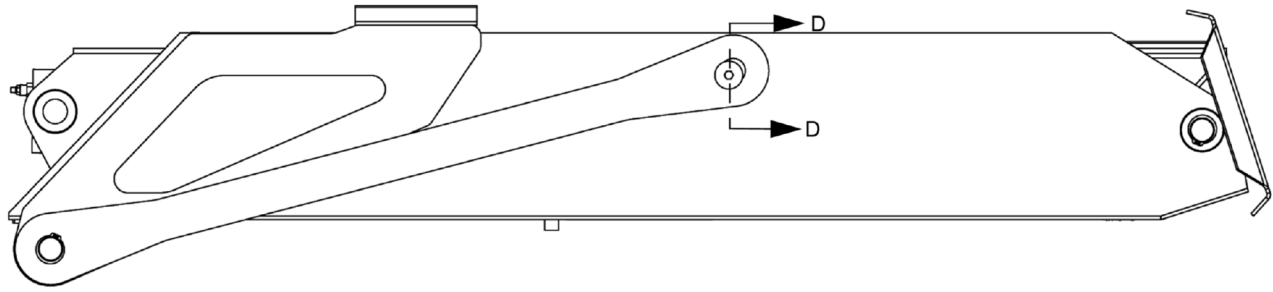
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10026-2 (Rev. C)	<i>Platform U.S Curb Side</i>	
1	709-01881	Rear Guard, Platform	1
2	709-01883	Step Weldment	1
3	789-05846	Step Bracket, Platform	1
4	809-00512	Console Handle Weldment	1
5	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	9
6	S01-250CA75-25	SCR, HHCS 0.25-20X1.75, ST Z GR5	3
7	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	4
8	SHF-250C875-25	SCR, HHCS FT 0.25-20X0.875, ST Z G5	2
9	T114095	Platform Weldment Curb Side	1
10	WAN-25NX000-20	WSH, FL TYP A-NRW 0.25, ST SQC	18

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	PLATFORM U.S. CURB SIDE	DATE: Revised 12-2013	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAIN OUTRIGGER ASSEMBLY

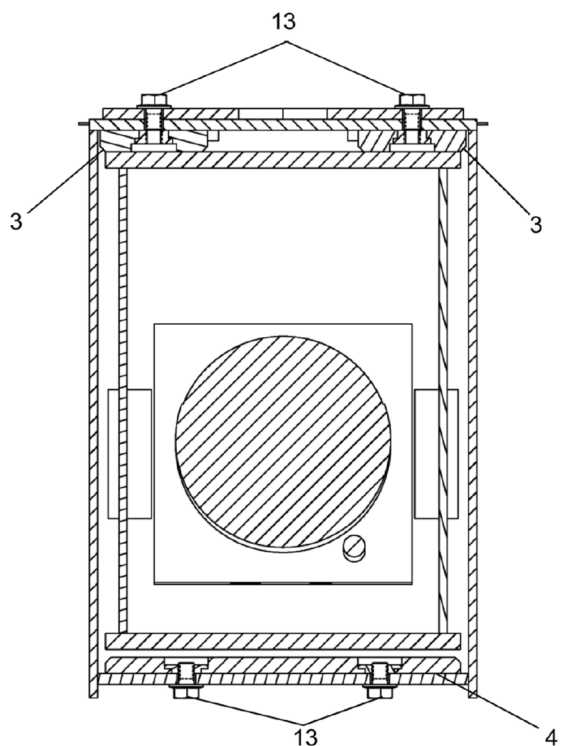
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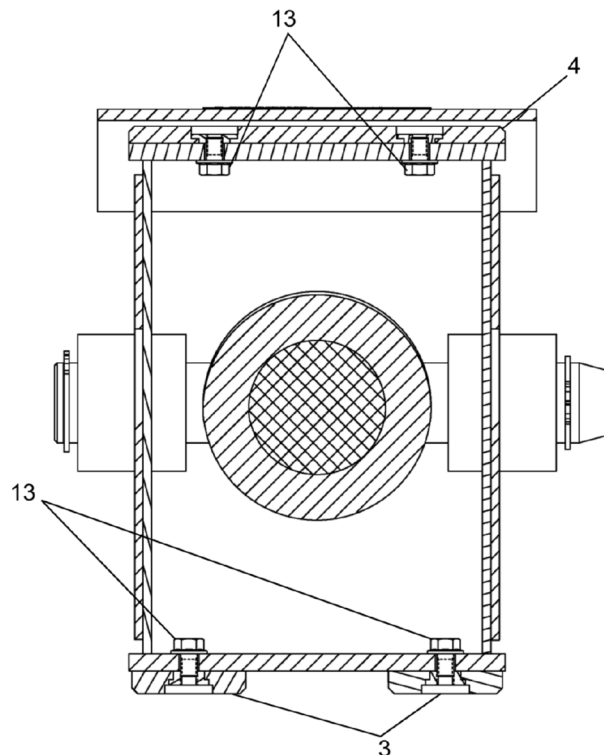
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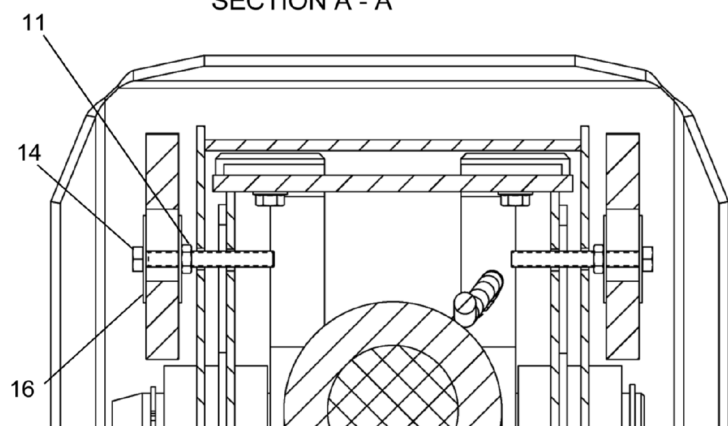
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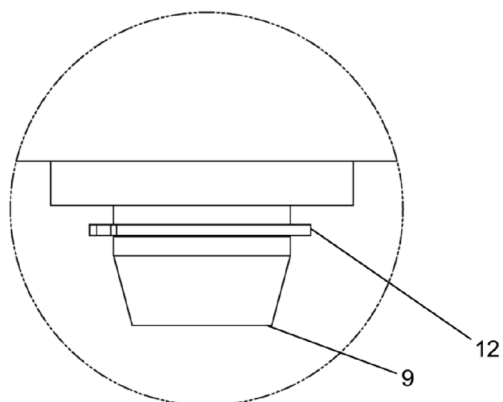
SECTION A - A



SECTION B - B



SECTION D - D



DETAIL C

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAIN OUTRIGGER ASSEMBLY

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T124906 (Rev. C)	<i>Leg ASSY, Main Outrigger</i>	
1	540-50046	CYL, Outrigger Leg, Main (see page 107)	1
2	1006862	Crane Hand Signals	1
3	729-02819	Wear Pad, 8.2 5 X 2.50 x 0. 50	4
4	729-02908	Wear Pad, 8.25 X 2.50 x 0.375	2
5	760-20477	Inner Leg Weldment	1
6	760-204 78	Outer Leg Weldment	1
7	760-20483	O/ R Shoe Weldment	1
8	789-05763	Tension Link	2
9	870-80020	Pin, Outrigger 1.75X12.20	1
10	870-80021	Pin, Outrigger 1.75X12.875	1
11	N05-375C000-25	Nut, HEX Jam 0.375-16, ST Z GR5	2
12	REX-A75X109-BP	Ring, EXTSNP HVY 1.75X0.109, ST BP	4
13	SFS-375C500 -27	SCR, HXFLG SER 0.375-16X0.50, G8 .2	12
14	SHF-375CC00 -25	SCR, HHCS FT 0.375 - 16X3.00, STZ G5	2
15	T116671	Decal, A Frame Outrigger Crush	1
16	WFD-375XB00-20	WSH, FNDR 0.375X2.00, ST Z	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAIN OUTRIGGER ASSEMBLY

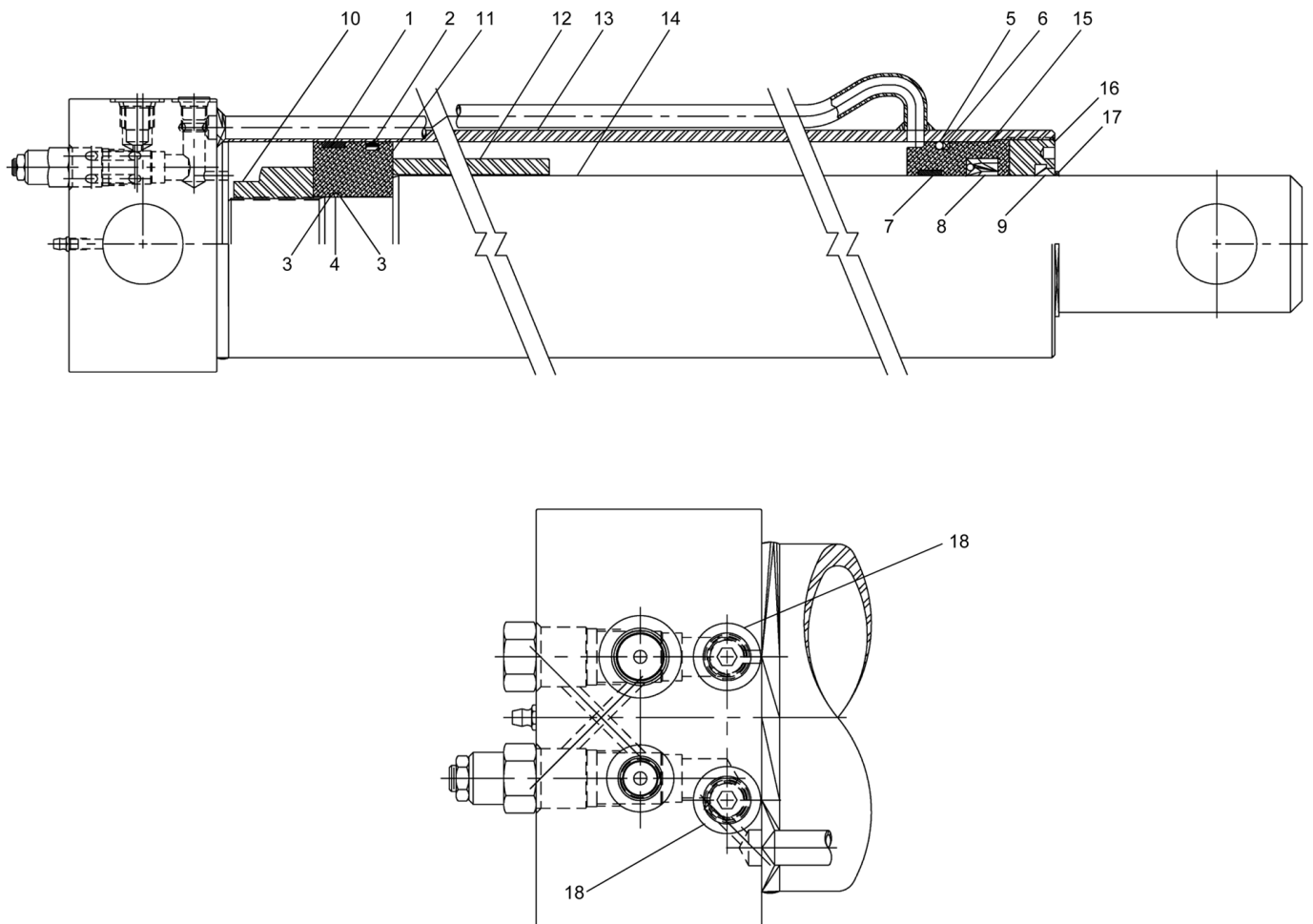
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	540-50046 (Rev. 00)	<i>CYL, Outrigger Leg, Main</i>	
	268-90179	Seal Kit (Items 1 thru 9)	1
1	PART OF 268-90179	Rod Wiper	1
2	PART OF 268-90179	Rod Wiper	1
3	PART OF 268-90179	Rod Wiper	2
4	PART OF 268-90179	Rod Wiper	1
5	PART OF 268-90179	Rod Wiper	1
6	PART OF 268-90179	Rod Wiper	1
7	PART OF 268-90179	Rod Wiper	1
8	PART OF 268-90179	Rod Wiper	1
9	PART OF 268-90179	Rod Wiper	1
10	812-00021	Lock Nut	1
11	812-00022	Piston	1
12	812-00023	Spacer	1
13	812-00060	Barrel Assembly	1
14	812-00061	Rod	1
15	812-00026	Internal Head	1
16	812-00027	Thread Ring	1
17	812-00062	Square Ring	1
18	812-00014	Steel Plug	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAIN OUTRIGGER CYLINDER

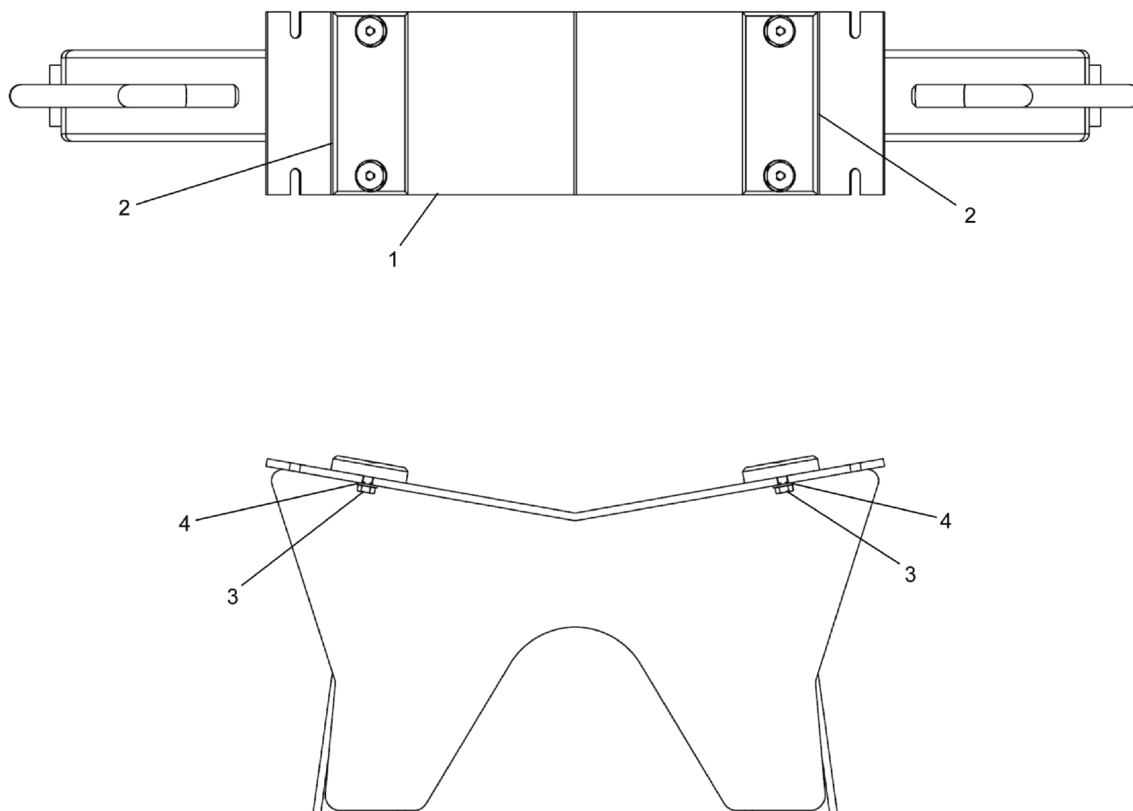
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REF	PART NO.	DESCRIPTION	QTY
	698-00065 (Rev. A)	Boom Rest ASSY	
1	709-01835	Boom Rest Weldment	1
2	729-02883	Boom Rest Pad	2
3	SHF-312C625-25	SCR, HHCS FT 0.312-18 X 0.625, STZG5	4
4	WAH-31NX000-Y2	WSH, FL HRD A-NRW 0.3125, ST YZ	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



BOOM REST ASSEMBLY

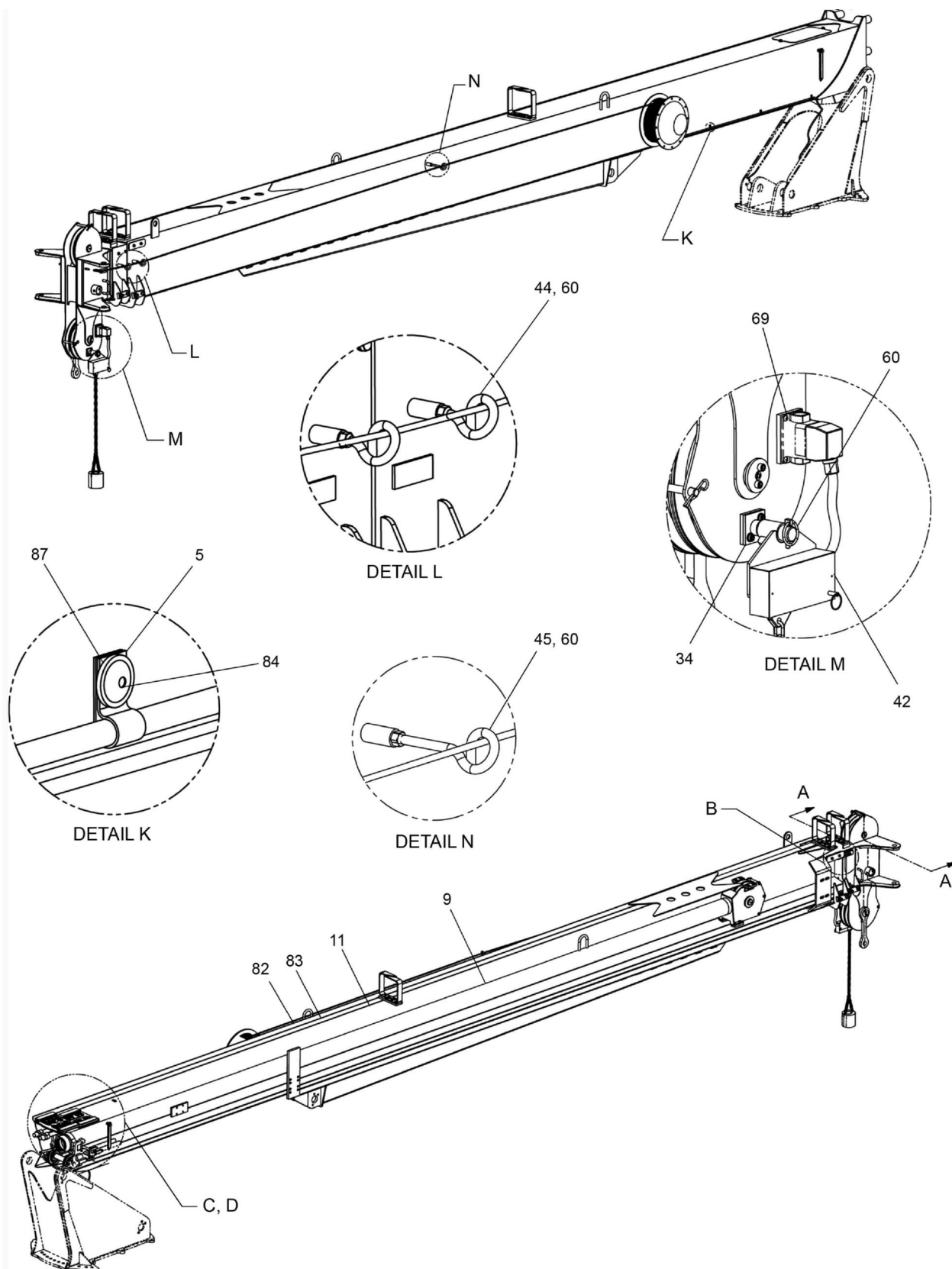
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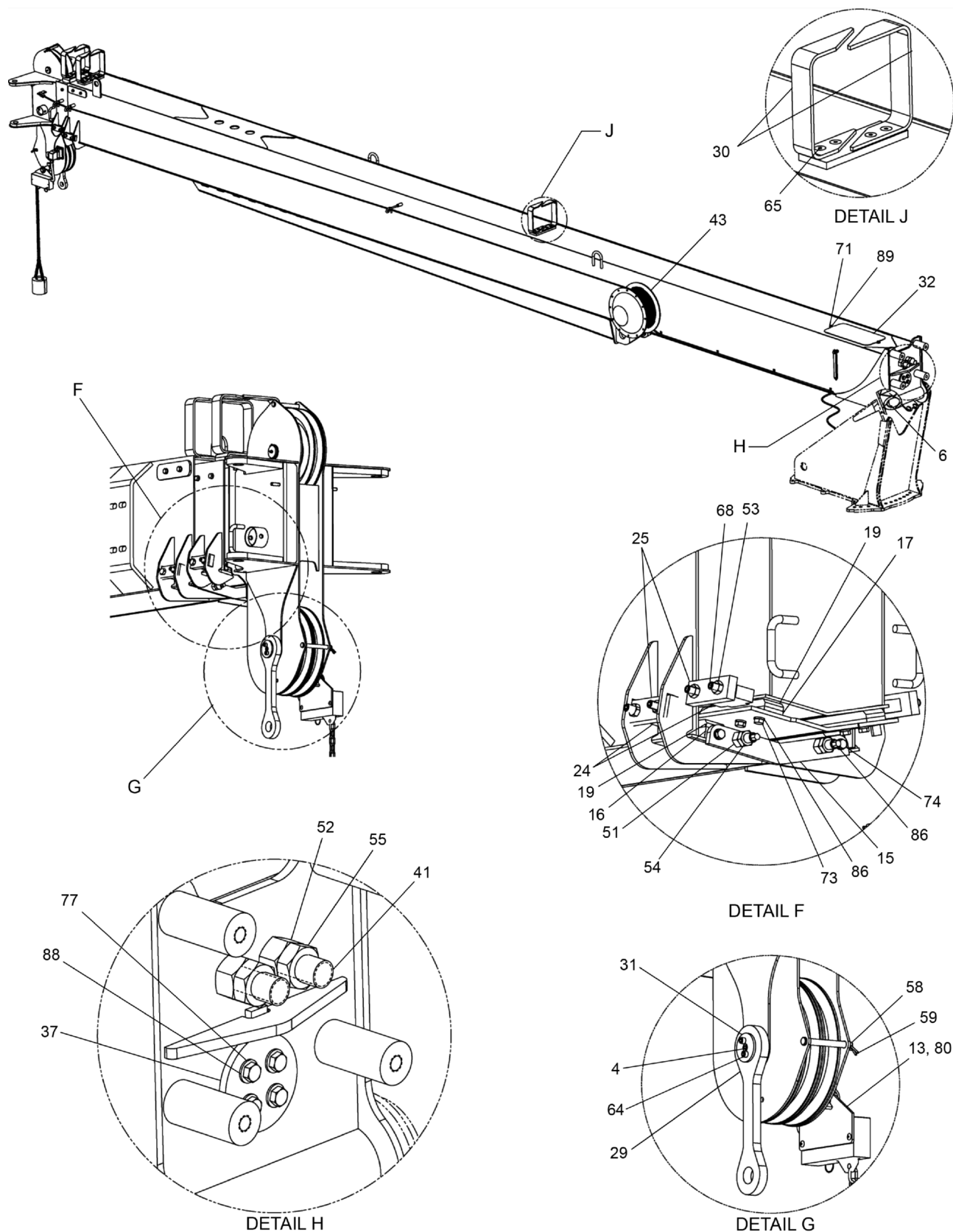
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

REF	PART NO.	DESCRIPTION	QTY
	T120656 (Rev. J)	<i>Boom Assembly, 70FT</i>	
1	1208-26	Shim, Round 1.25 X 1.875 X 0.134, ST Z	10
2	1208-27	Shim, Round 1.25 X 1.875 X 0.075, ST Z	10
3	1208-28	Shim, Round 1.25 X 1.875 X 0.048, ST Z	10
4	1213-7	Grease FTG, Zerk, 0.25-28 STR	4
5	201 -00141	Clamp 0.25 DIA	4
6	271-17004	Bearing 2.25 SHFT X 2.25, Teflon	2
7	274-20004	Bearing, Inner Race, 1.25 Shaft	2
8	274-30004	Bearing, Inner Race, 1.75 Shaft	3
9	548-00059	Cylinder Assy, Boom Extend (see page 115)	1
10	717 0882	Counterweight, W/Chain	1
11	722-01361	Boom Weldment, 3Rd Section	1
12	729-02578	Pointer	2
13	729-02729	Bracket Weldment, LMI-ATB Switch	1
14	729-02829	Retainer Weldment, Wear Pad	2
15	729-02832	Anchor, Retract Rope	1
16	729-02833	Bar 7.00 X 1.50 X 0.75, STL Z	2
17	729-02834	Plate 7.00 X 1.50 X 0.25	2
18	729-02836	Wear Pad 7.00 X 1.75 X 0.75	4
19	729-02838	Wear Pad 7.00 X 1.75 X 0.62	4
20	729-02842	Eccentric Weldment	2
21	729-02855	Retain Key, Extend CYL	2
22	729-02856	Wear Pad 3.00 X 3.00 X 1.125	2
23	729-02857	Wear Pad 4.00 X 1.125 X 0.50	2
24	729-02860	Wear Pad, Cast Iron	4
25	729-02861	Plate 4.38 X 1.50 X 0.625	4
26	729-02862	Wear Pad 6.00 X 1.25 X 0.50	4
27	729-02864	Retainer Weldment, Top Wear Pad	2
28	729-02872	Wear Pad 6.00 X 1.25 X 0.50	4
29	729-02874	Key Plate, Winch Rope End	1
30	729-02875	Guide, Winch Cable	6
31	729-02885	Plate, Round 2.25 X 0.188	2
32	729-02888	Cover Plate, Boom Base	1
33	770-02794	Plate Weldment, Rope Anchor	1
34	774-00054	Adapter Bracket, ATB SW	1
35	782-01735	Spacer, CYL 1.781 X 3.50 X 1.75	1
36	787-00329	Shim 6.00 X 1.25 X 0.048	12
37	789-05806	Cap Plate, Extend CYL	1
38	860-10009	Sheave Assembly, Boom Retract (see page 117)	2
39	860-40050	Sheave Assembly (see page 27)	3
40	861-13026	Wire Rope ASSY, 0.3125 X 331.00	4
41	861-17054	Wire Rope ASSY, 0.625 X 576.50	4
42	861 -90434	ATB Switch, HVY Duty	1
43	861 -90532	Reel ASSY, Greer	1
44	865-00029	Cable Guide, 1.00 DIA	2
45	865-00030	Cable Guide, 1.00 DIA	1
46	870-20267	Shaft, Retract 1.00 X 8.63	1
47	870-30231	Shaft, Sheave 1.50 X 10.375	1
48	870-50106	Pin, Sheave 1.747 X 4.748	1
49	870-50107	Pin, Sheave 1.747 X 5.56	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



Boom ASSEMBLY, 70FT

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REF	PART NO.	DESCRIPTION	QTY
	T120656 (Rev. J)	Boom Assembly, 70FT	
50*	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	3
51	N04-625C000-Y8	Nut, HEX 0.625-11, ST YZ GR8	2
52	N04-A25C000-Y8	Nut, HEX 1.25-7, ST YZ GR8	2
53	N05-500C000-Y8	Nut, HEX Jam 0.50-13, ST YZ GR8	8
54	N05-625C000-Y8	Nut, HEX Jam 0.625-11, ST YZ GR8	2
55	N05-A25C000-Y8	Nut, HEX Jam 1.25-7, ST YZ GR8	2
56	N13-438C000-ZA	Nut, HEX Jam HVY 0.438-14, ST Z GA	2
57*	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	1
58	P01-500XD50-20	Pin, Clevis 0.50 X 4.50, ST Z	2
59	PHP-125XB62-20	Pin, CTRHAIR 0.125 X 2.62 X 0.48, ST Z	2
60	PLP-250XA56-20	Pin, LYNCH 0.25 X 1.562, ST Z	1
61	REX-A75X062-BP	Ring, EXTSNP 1.75 X 0.062, ST BPH	2
62*	S01 -375CA37 -Y8	SCR, HHCS 0.375 -16 X 1.375, ST YZ G8	4
63	S01-375CB25-Y8	SCR, HHCS 0.375-16 X 2.25, ST YZ GR8	2
64	S14-312C625-H2	SCR, SHCS 0.3125-18 X 0.625, ST Z	4
65	S16-375C500-BX	SCR, FSHCS 0.375-16 X 0.50, ST BKOX	12
66	S16-375CA00-BX	SCR, FSHCS 0.375-16 X 1.00, ST BKOX	8
67	S20-500CA50-HQ	SCR, SHSS 0.50 X 1.50, STL SQC	4
68	S32-500CB25-20	SCR, SSS CPT 0.50-13 X 2.25, ST Z	8
69	SD1-190C375-20	SCR, CREC RND MS 10-24 X 0.375, ST Z	4
70*	SHF-250CA50-25	SCR, HHCS FT 0.25-20 X 1.50, ST Z G5	1
71	SHF-375C625-25	SCR, HHCS FT 0.375-16 X 0.625, STZG5	6
72	SHF-375C750-Y8	SCR, HHCS FT 0.375-16 X 0.75, STYZG8	4
73	SHF-375C875-Y8	SCR, HHCS FT 0.375-16 X 0.88, STYZG8	4
74	SHF-375CA00-25	SCR, HHCS FT 0.375-16 X 1.00, STZ G5	9
75	SHF-375CA00-Y8	SCR, HHCS FT 0.375-16X 1.00, STYZG8	4
76	SHF-438CA25-25	SCR, HHCS FT 0.438-14 X 1.25, STZ G5	2
77	SHF-500CA25-Y8	SCR, HHCS FT 0.50-13 X 1.25, STYZ G8	4
78*	SLH-312C625-BX	SCR, LSHCS 0.312-18 X 0.625, ST BX	2
79	SLH-375C625-BX	SCR, LSHCS 0.375-16 X 0.625, ST BX	2
80	SLH-500C750-BX	SCR, LSHCS 0.50-13 X 0.75, ST BKOX	16
81	T120176	Wear Pad Shim .105 THK	8
82	T120620	Base Section Weldment (19-70)	1
83	T128176	Boom Weldment, Section 2	1
84	VBB-250X500-L5	RVT, BTNHD, BLND 0.250 X 0.50, AL	4
85*	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	2
86	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	29
87	WAH-25NX000-Y2	WSH, FL HRD A-NRW 0.25, ST YZ	5
88	WAH-50NX000-Y2	WSH, FL HRD A-NRW 0.50, ST YZ	20
89	WAN-37NX000-20	WSH, FL TYPA-NRW 0.375, ST Z	11

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



Boom ASSEMBLY, 70FT

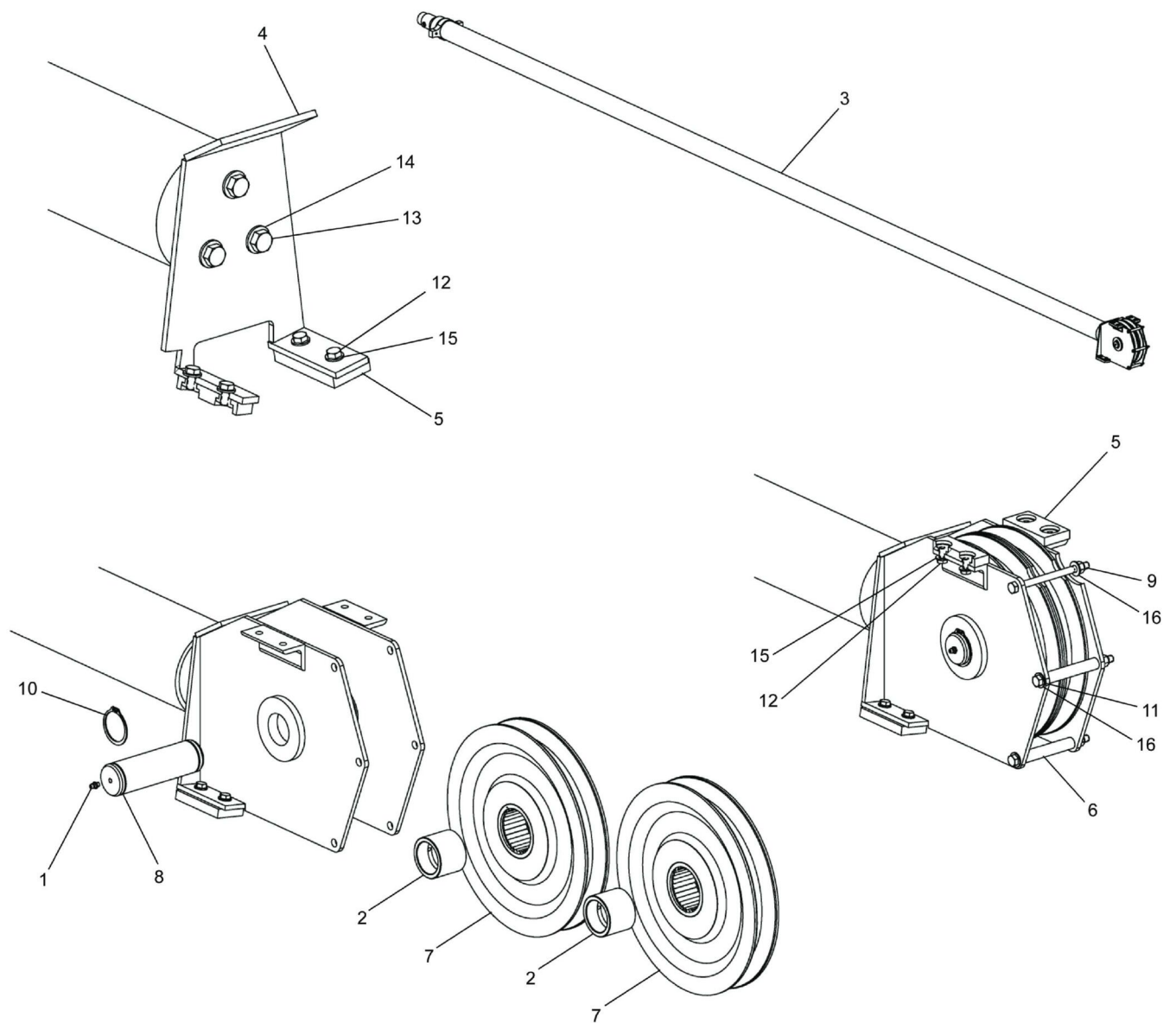
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CYLINDER ASSEMBLY, BOOM EXTEND

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	548-00059 (Rev. B)	<i>Cylinder Assy, Boom Extend</i>	
1	1213-07	Grease FTG, ZERK, 0.25-28 STR	2
2	274-30004	Bearing, Inner Race, 1.75 Shaft	2
3	540-50044	Cylinder, HYD 3.75 Bore X 256.00	1
4	722-01372	Bracket Weldment, Sheave	1
5	729-02890	Wear Pad 3.50X1.75X0.50	4
6	782-01238	Spacer, CYL 0.45X0.625X3.563	3
7	860-40048	Sheave Assembly, 0.625 Rope	2
8	870-50059	Pin, Sheave 1.747X5.6875	1
9	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	3
10	REX-A75X062-BP	Ring, EXTSNP 1.75 X 0.062, ST BPH	2
11	S01-375CE00-25	SCR, HHCS 0.375-16X5.00, ST Z GR5	3
12	SHF-312C625-25	SCR, HHCS FT 0.312-18 X 0.625, STZG5	8
13	SHF-500CA25-Y8	SCR, HHCS FT 0.50-13 X 1.25, STYZ G8	3
14	WAH-50NX000-Y2	WSH, FL HRD A-NRW 0.50, ST YZ	3
15	WAN-31NX000-20	WSH, FL TYPA-NRW 0.3125, ST SQC	8
16	WAN-37NX000-20	WSH, FL TYPA-NRW 0.375, ST Z	6

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CYLINDER ASSEMBLY, BOOM EXTEND

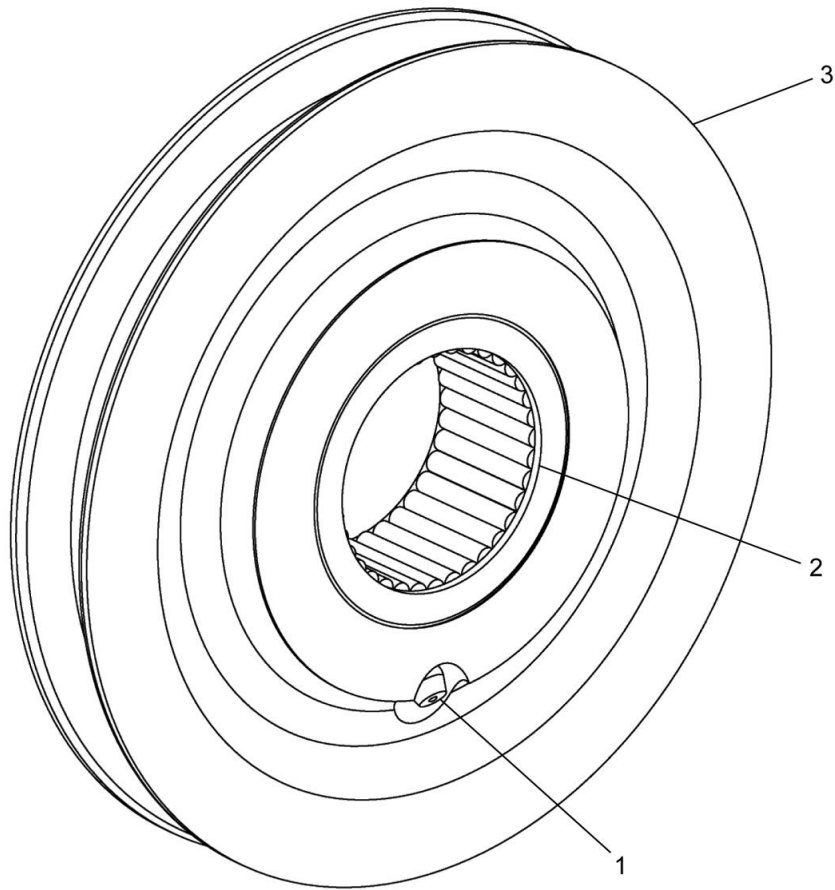
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	860-10009 (Rev. C)	<i>Sheave Assembly, Boom Retract</i>	
1	1213-07	Grease FTG, ZERK, 0.25-28 STR	1
2	273-10007	Roller BRG Outer Race	1
3	860-10010	Sheave 5.50 OD X 7.50	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SHEAVE ASSEMBLY, BOOM RETRACT

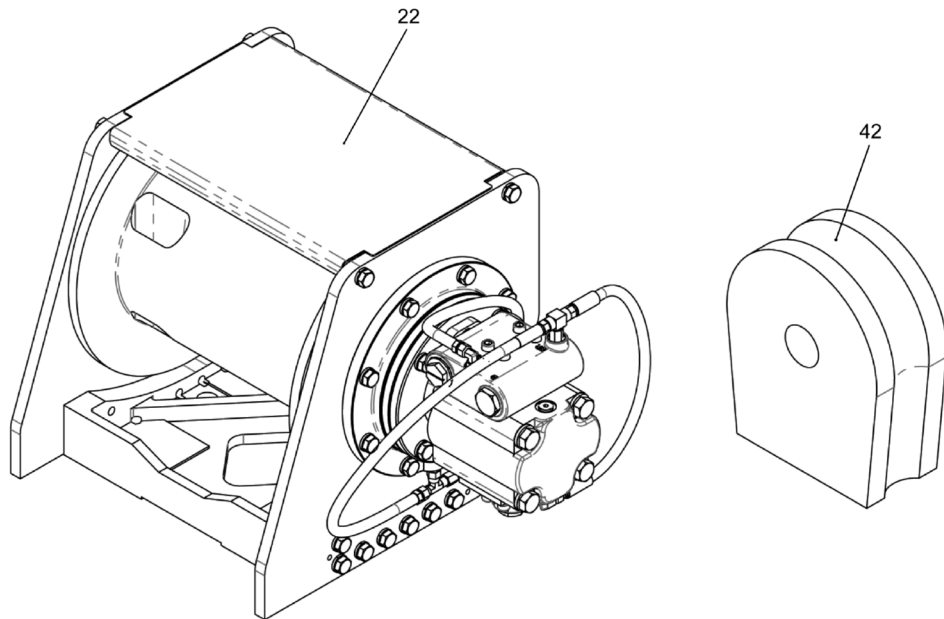
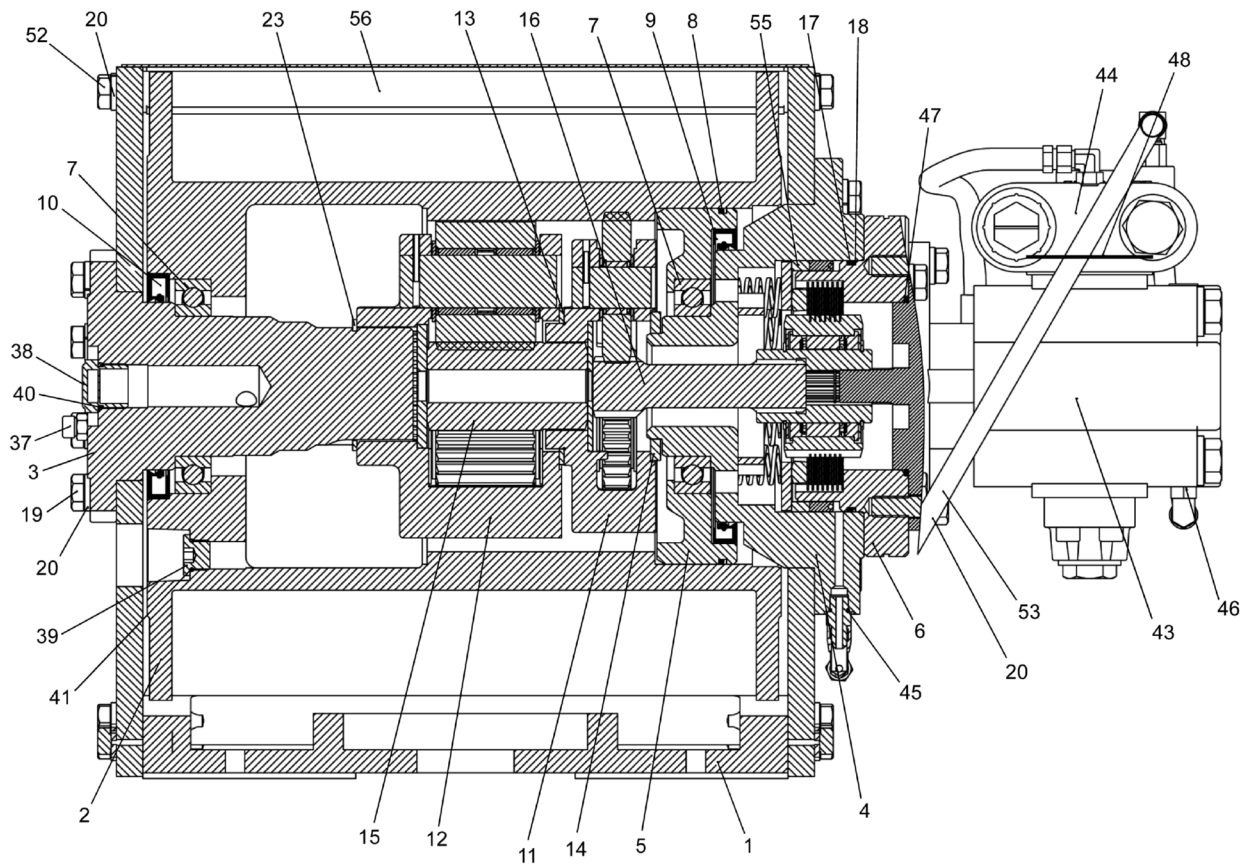
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSEMBLY (OMNIGEAR)

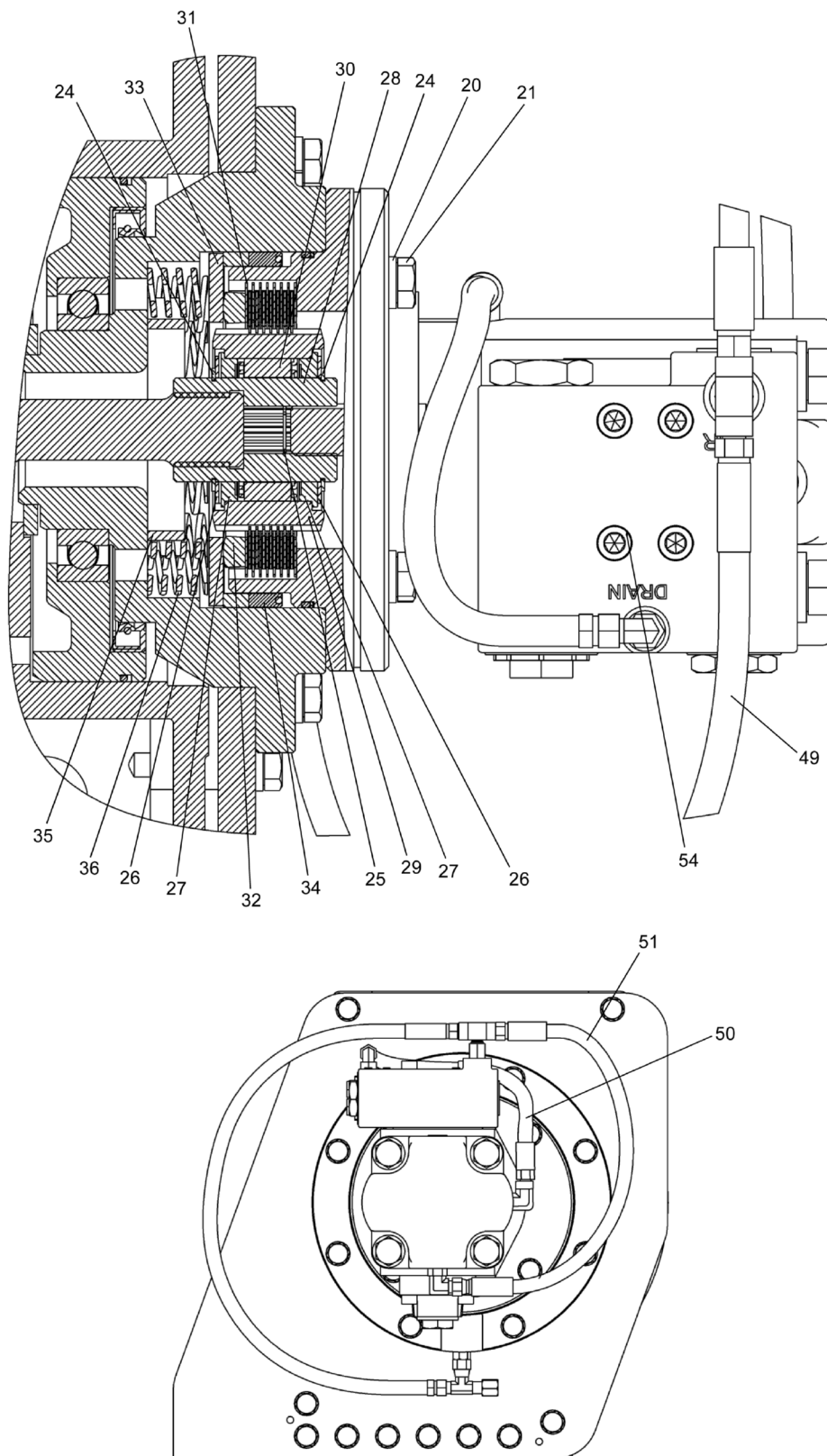
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSEMBLY (OMNIGEAR)

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REF	PART NO.	DESCRIPTION	QTY
	T145115 (Rev. A)	Winch ASSY (OMNIGEAR)	
1	229046	Main Housing (Winch Base)	1
2	229047	Ring Gear (Cable Drum)	1
3	228865	Spindle	1
4	229048	Brake Cylinder	1
5	229049	Cable Drum Closure	1
6	228867	Motor Adapter	1
7	228868	Ball Bearing 6017	2
8	229050	O-Ring -267	1
9	228870	Lip Seal REF. 165X190X13	1
10	228871	Lip Seal REF. CR CRWHA1	1
11	229051	Primary Carrier Sub-Assembly	1
12	229052	Secondary Carrier Sub-ASSY	1
13	228874	Spacer Carrier 95 X 76.2 X 3	1
14	228875	Spacer Carrier 90 X 64.2 X 6	1
15	229053	Sun Gear Secondary 18 Teeth	1
16	229054	Drive Shaft 12T-Sun 14T Spline	1
17	228878	O-Ring -255	1
18	228879	Backup Ring	1
19	228880	Capscrew, 1/2"-13 UNC-32	16
20	229599	Lock Washer, 1/2	24
21	228882	Capscrew, 1/2"-13 UNC	4
22	229056	Winch Cover	1
23	228883	Retaining Ring External #70	1
24	228884	Retaining Ring External #45	2
25	228885	Retaining Ring Internal #19	1
26	228886	Spacer Race	2
27	228887	Bushing Outer Brake Race	2
28	228888	Inner Brake Race	1
29	228889	Outer Brake Race	1
30	228890	SPRAG CAM 1-Way Clutch	1
31	228891	Brake Pack	1
32	228892	Brake Spacer	1
33	228893	Spring Thrust Plate	1
34	228894	U-Cup Seal (Brake Cylinder)	1
35	228895	Spring Spacer	1
36	228896	Springs (Brake)	10
37	228897	Relief Valve 1/8"-27 NPT	1
38	228898	Sight Flange Plug, M27x1.5	1
39	229628	Flange Plug, M18X1.5	1
40	228900	O-Ring (REF. # -119)	1
41	228901	O-Ring (REF. # -113)	1
42	228902	Cable Wedge	1
43	229055	Hydraulic Motor	1
44	228904	Brake Valve Assembly	1
45	228905	O-Ring (Not Shown) -904	2
46	228906	O-Ring (Not Shown) -906	1
47	228907	O-Ring (Motor Flange) -242	1
48	228908	O-Ring (Brake Port) -219	1
49	228909	Hose Assemble - A	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSEMBLY (OMNIGEAR)

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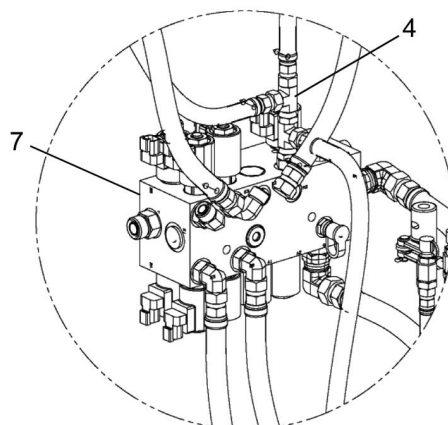
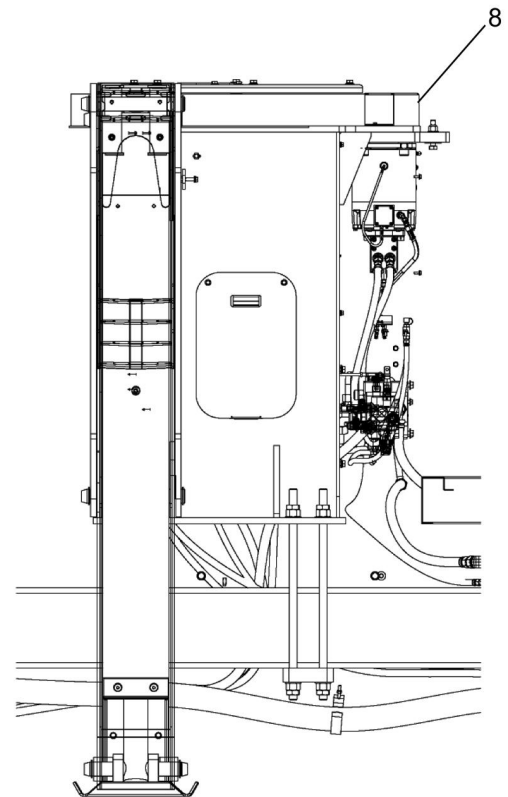
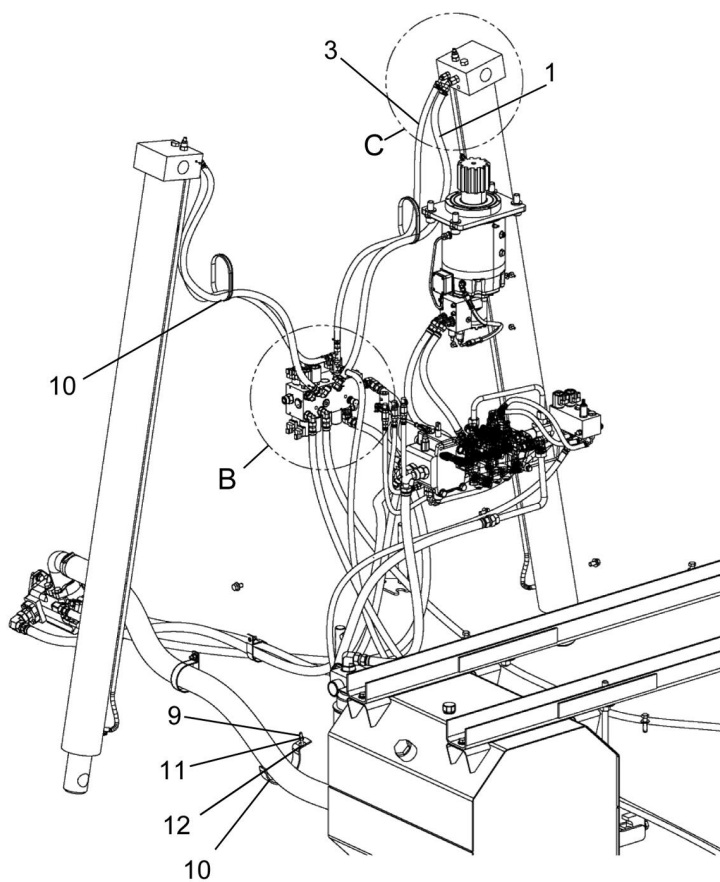
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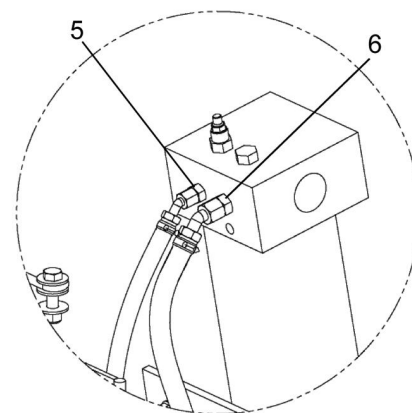
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T145115 (Rev. A)	<i>Winch ASSY (OMNIGEAR)</i>	
50	228910	Hose Assemble - B	1
51	228911	Hose Assemble - C	1
52	228919	HEX Head Capscrew, 1/2"-13 UNC	2
53	229600	Capscrew, 1/2" - 13UNC	2
54	228914	Socket Capscrew 3/8"-16UNC	4
55	228915	Piston Backup Ring	1
56	228918	Connecting Rod	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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DETAIL B



DETAIL C

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN O/R NON CONTINUOUS - COMBINED FLOW / MOTOR SHIFT

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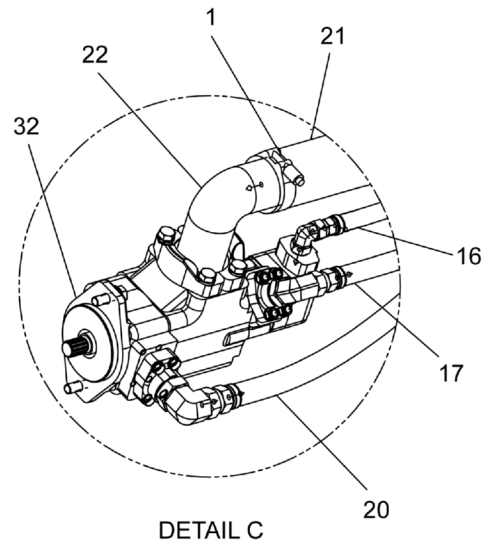
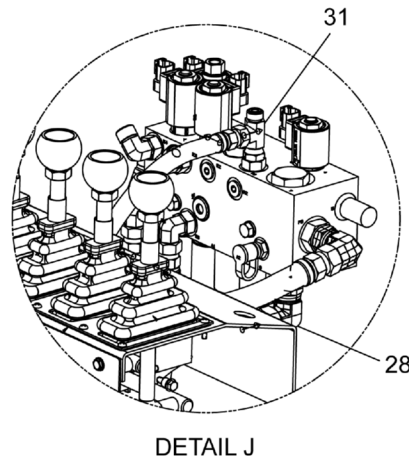
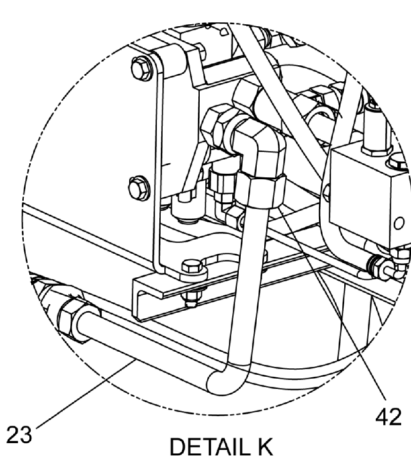
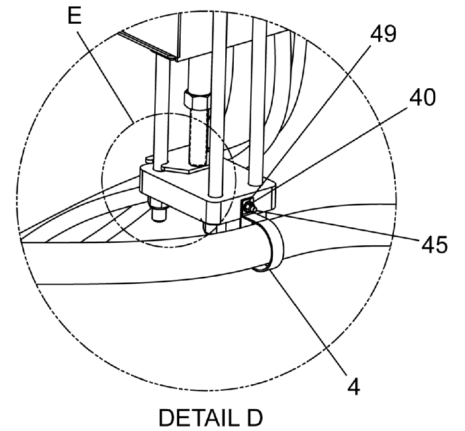
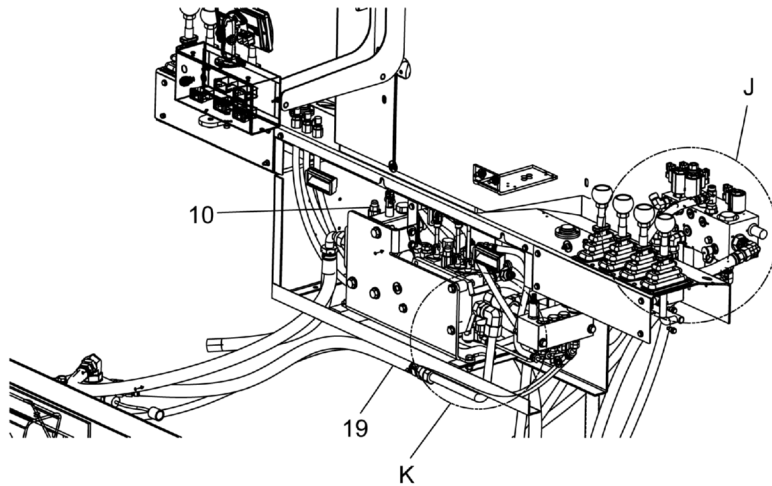
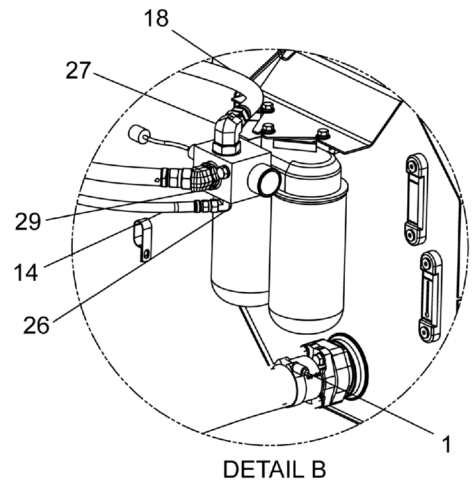
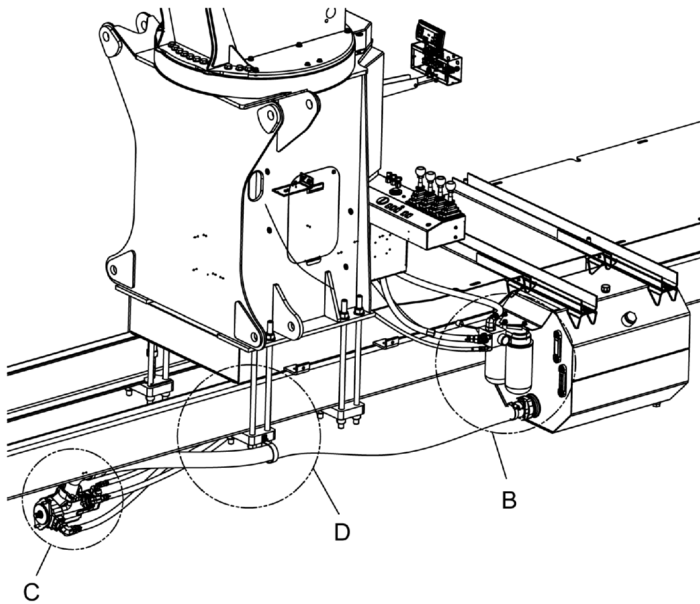
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01839-01 (Rev. B)	<i>HYD INSTL, Main Outrigger</i>	
1	502-30788	Hose, Main Outrigger Extend	2
2*	400-15086	Tie, Nylon CBL, 1.75 DIA	4
3	502-21024	Hose, Main Outrigger Retract	2
4	516 -84003	Tee, Run 2X M#6 OFS X F #6 OFS	1
5	513- 40014	STR CONN M#6 OFS X M#6 ORB	2
6	513-50023	Adapter, MOFS-8/MORB-8	2
7	500-01838-01	HYD INSTL, SUBFRM-MAINFRM (see page 124)	1
8	695-10019	Truck Attach Main Assembly (see page 66)	Ref
9	S01-312CA75-25	SCR, HHCS 0.3125 -18X1.75, ST Z G5	1
10	201-00119	Clamp, Hose, 2.625 DIA	1
11	NYL-312C000-25	Nut, HEX NYL-INS 0.312-18, ST SQC G5	1
12	WAW -31WX000-20	WSH, FL TYPA -W ID 0.3125, ST Z	1

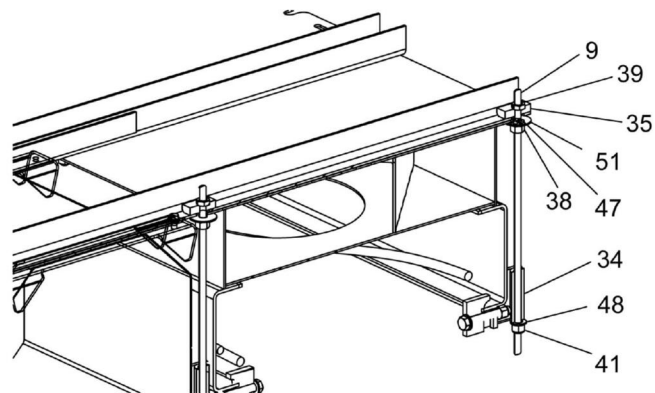
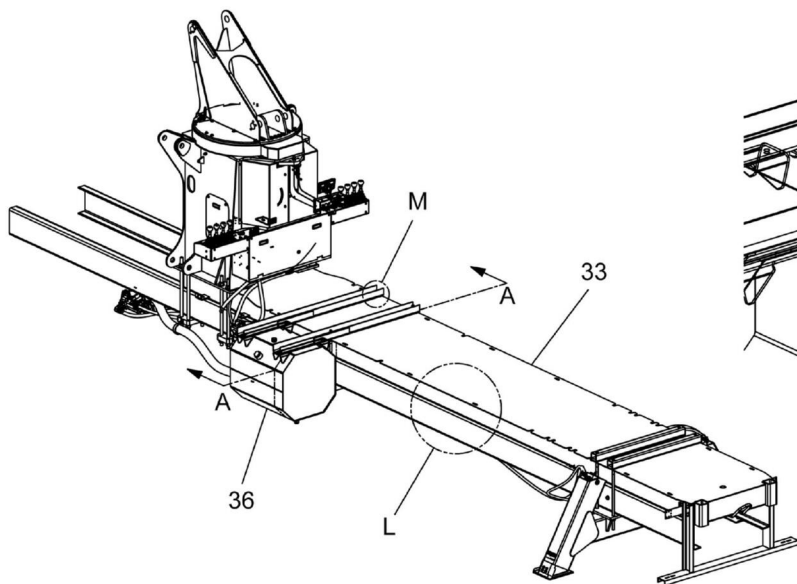
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

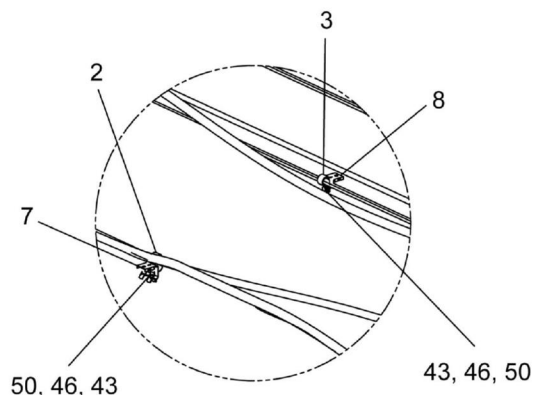
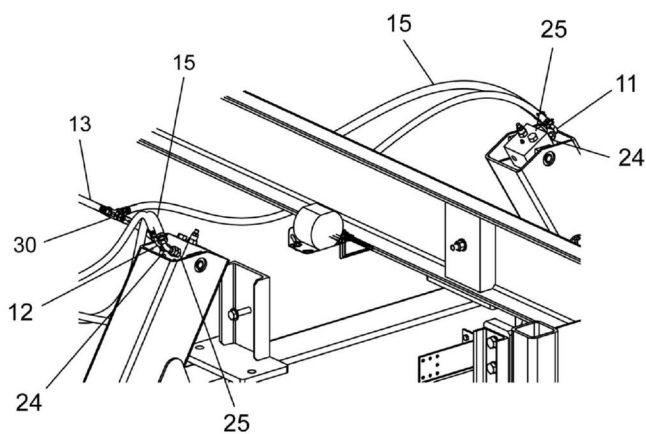
	HYDRAULIC INSTL, MAIN O/R NON CONTINUOUS - COMBINED FLOW / MOTOR SHIFT	DATE: Released 12-2013	CHAPTER 1
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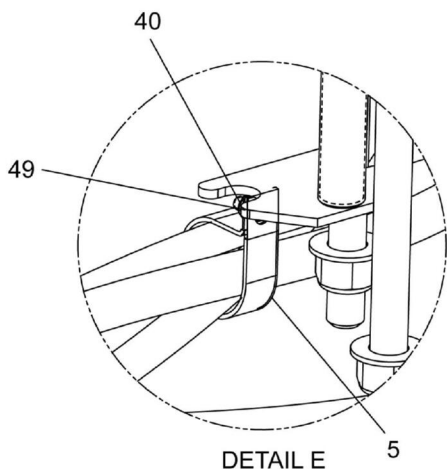
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



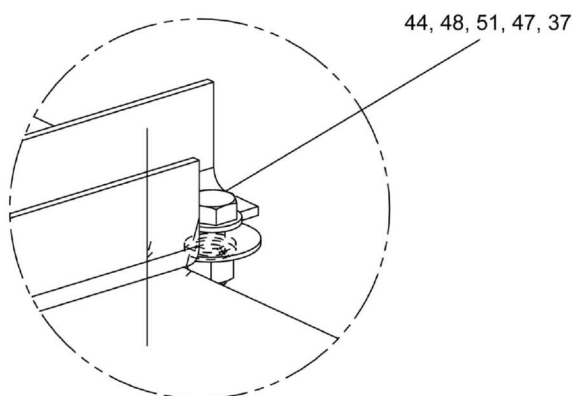
SECTION A - A



DETAIL L



DETAIL E



DETAIL M

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

REF	PART NO.	DESCRIPTION	QTY
	500-01838-01 (Rev. K)	HYD INSTL, SUBFRM-MAINFRM	
1	1240-101	Clamp, T-Bolt, SAE 60	2
2	200B2007-67	Clamp, Double, MED, 0.88 ID	2
3	200B2007-7	Clamp 7/8 DIA With .41 Hole	1
4	201-00257	Clamp, 3.50 DIA	1
5	201-00258	Clamp, 2.50 DIA	1
6*	209-00804	Hose Protector (HP8-B)	1
7	209-00879	Frame Clip Caddy, DBLE	2
8	209-00880	Frame Clip Caddy, SNGL	1
9	220-07056	Tie Rod	2
10	500-01837-01	HYD INSTL, MNFRM-Console (see page 128)	1
11	502-21016	Hose, AUX Outrigger SS RET	1
12	502-21017	Hose, AUX OUTRIG CS RET	1
13	502-21018	Hose, Front Outrigger	1
14	502-21025	Hose, LMI Return	1
15	502-30770	Hose, AUX Outrigger Extend	2
16	502-30782	Hose, Pump to Main Valve	1
17	502-35089	Hose, Pump-OR Valve	1
18	502-41017	Hose, Winch Return	1
19	502-41018	Hose, Main Valve Return	1
20	502-41019	Hose, Pump-Winch Valve	1
21	503-06008	Hose, Pump Inlet	1
22	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1
23	510-70844	Tube, Main Valve Return	1
24	513-40014	Adapter, MOFS-6/MORB-6	2
25	513-50023	Adapter, MOFS-8/MORB-8	2
26	514-55020	Elbow, 90, MOFS-6/MORB-8	1
27	514-59023	Elbow, 90, MOFS-12/MORB-16	1
28	514-66004	Elbow, 90, MOFS-10/FOFS-10SW	1
29	515-07003	Elbow 45°	1
30	516-44002	Tee, MOFS-6/MOFS-6/MOFS-6	1
31	516-84003	Tee, MOFS-6/FOFS-6SW/MOFS-6	1
32	521-00084-3	Pump Installation (see page 149)	1
32A	521-00084-6	Pump Auto Trans Installation (see page 154)	1
32B	521-00084-7	Hose Kit, 8 Bolt PTO (see page 158)	1
33	695-10018	Subframe-Mainframe ASSY (see page 69)	1
34	701-00768	Mid-Mount Tiedown Assembly (see page 163)	2
35	789-05852	Tap Block	2
36	876-00071	70 GAL Tank Installation (see page 164)	1
37	N04-750C000-Y8	Nut, HEX 0.75-10, ST SQC G8	2
38	N04-750F000-Y8	Nut, HEX 0.75-16, ST SQC G8	2
39	N05-750F000-Y8	Nut, HEX JAM 0.75-16, ST SQC G8	2
40	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2
41	NYL-750F000-Y8	Nut, HX NYL-INS 0.75-16, ST SQC G8	2
42	SAE520110-12	Nut, HEX, Tubenut 12	1
43	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	3
44	SHF-750CA75-Y8	SCR, HHCS FT 0.75-10 X 1.75, ST SQC G8	2
45	T02-375CA00-P0	Stud, FT 0.375-16 X 1.00, STL	2
46	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	3
47	W07-750X000-20	WSH, LCK, MED SPLT 0.75, ST SQC	4

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTALLATION, SUBFRAME-MAINFRAME

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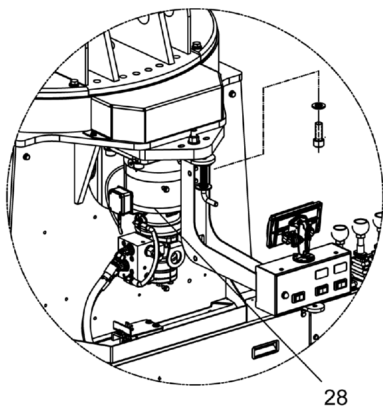
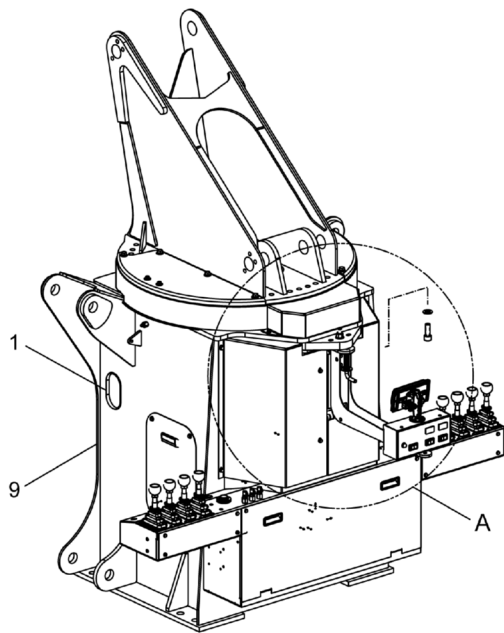
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01838-01 (Rev. K)	HYD INSTL, SUBFRM-MAINFRM	
48	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	4
49	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	2
50	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	3
51	WFT-750XB50-20	WSH, FNDR 0.75 X 2.50 X 0.125, ST SQC	4

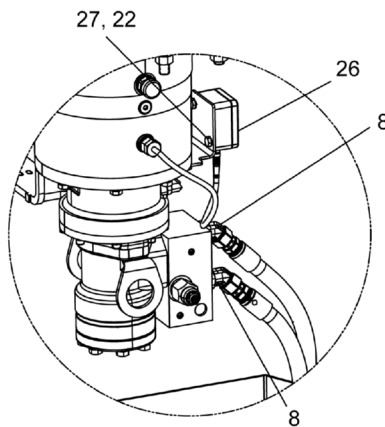
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

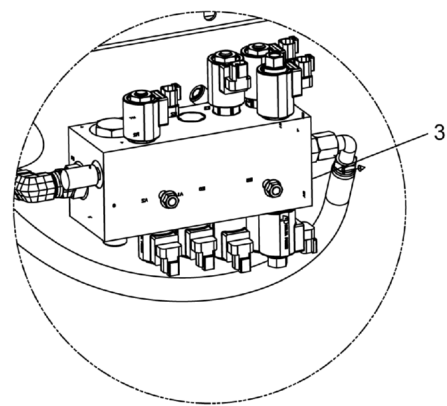
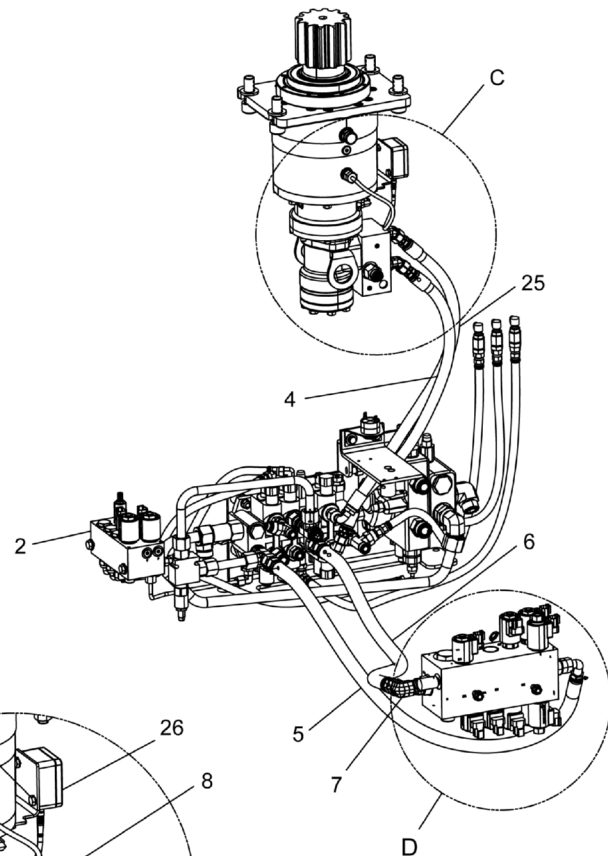
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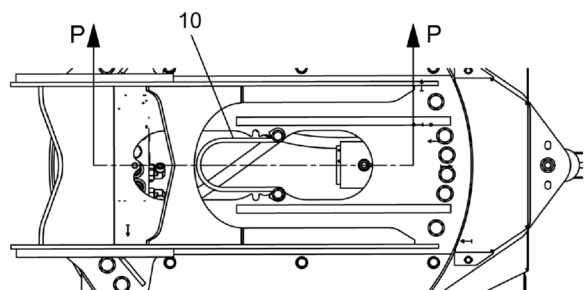
DETAIL A



DETAIL C



DETAIL D



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

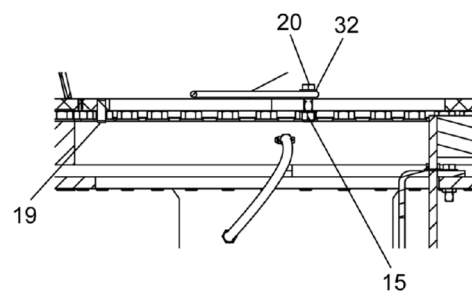
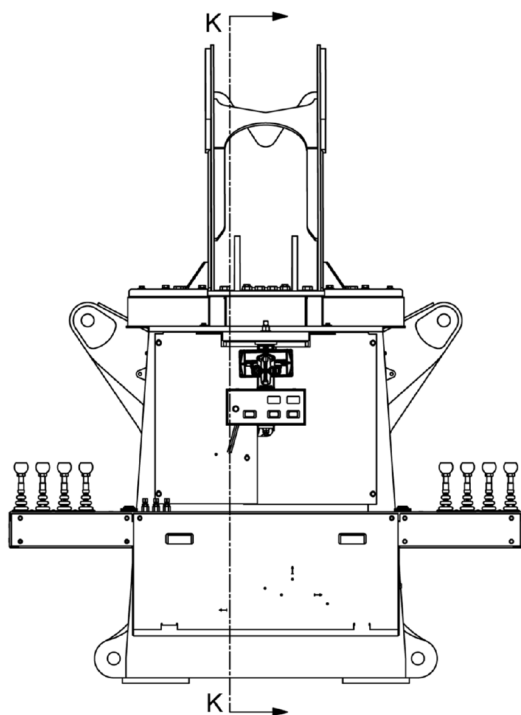
DATE: Revised 04-2018

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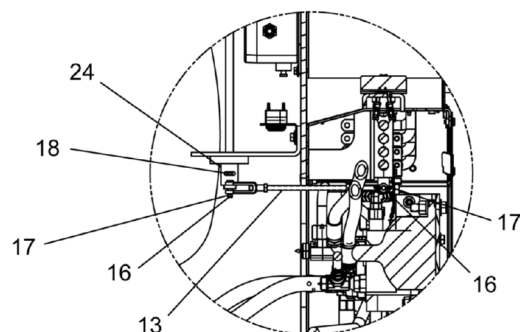
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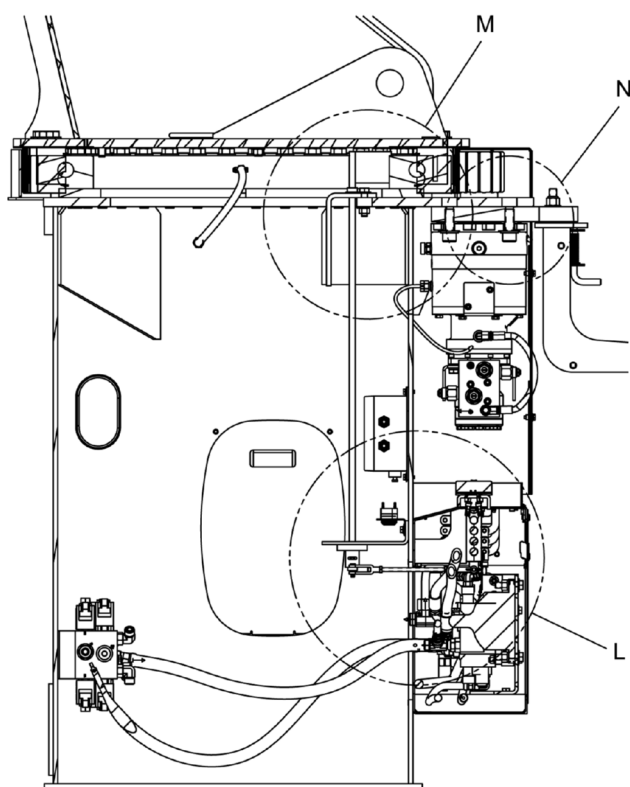
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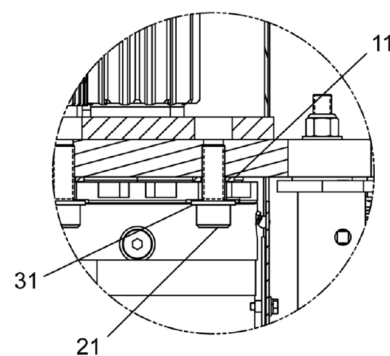
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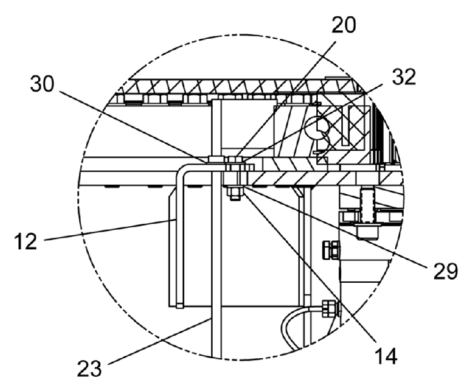
DETAIL L



SECTION K - K



DETAIL N



DETAIL M

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

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REF	PART NO.	DESCRIPTION	QTY
	500-01837-01 (Rev. H)	HYD INSTL, MNFRM-Console	
1	12169-16	Flex Trim 3/8" X 18" LONG	50"
2	500-01836-01	HYD INSTL, Console (see page 131)	1
3	500-01844	Valve SUBASSY, Outrigger (see page 142)	1
4	502-30779	Hose, -8, 3000, FOFS-8SW/FOFS-8SW, 625	1
5	502-35082	Hose, Outrigger Return	1
6	502-35091	Hose OR PB-Boom	1
7	514-66004	Elbow, 90, MOFS-10/FOFS-10SW	1
8	515-05005	Elbow, 45, MOFS-8/MORB-10	2
9	695-00185	Mainframe-Console ASSY (see page 144)	REF
10	770-02831	Bracket, Hose Guide	1
11	781-00336	Boss, 1.38 X 0.813 X 0.16	4
12	789-06007	Swivel Stop Arm	1
13	806-00245	Control Link ASSY	1
14	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	2
15	NYL-500C000-25	Nut, HEX NYL-INS 0.50-13, ST Z G5	2
16	P01-312XA00-P0	Pin, Clevis 0.3125 X 1.00, STL	2
17	P02-125X750-20	Pin, Cotter 0.125 X 0.75, ST SQC	2
18	P22-188XA50-GP	Pin, Spring SLTD 0.1875 X 1.50, ST	1
19	P22-500XA50-G2	Pin, Spring SLTD 0.50 X 1.50, ST Z	1
20	S01-500CB00-25	SCR, HHCS 0.50-13 X 2.00, ST Z GR5	4
21	S14-750CB00-H2	SCR, SHCS 0.75-10 X 2.00, ST Z	4
22	SHF-250C625-25	SCR, HHCS FT 0.25-20 X 0.625, STZ G5	2
23	T109850	Flag Weld, Swing Stop	1
24	T124167	Swing Stop Weldment	1
25	T133371	Hose, -8, 4000, FOFS-8SW/FOFS-8SW90, 700	1
26	T145537	Wad Sensor	1
27	T145587	Washer, Lock, External Tooth, 0.25	2
28	T146435	Swing Drive (OMNIGEAR) (see page 146)	1
29	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2
30	WAH-50NX000-Y2	WSH, FL HRD A-NRW 0.50, ST YZ	1
31	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4
32	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	8

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

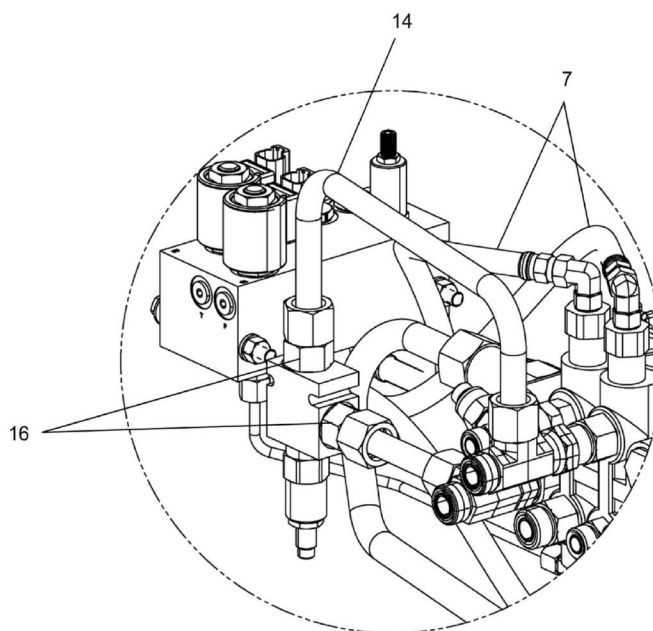
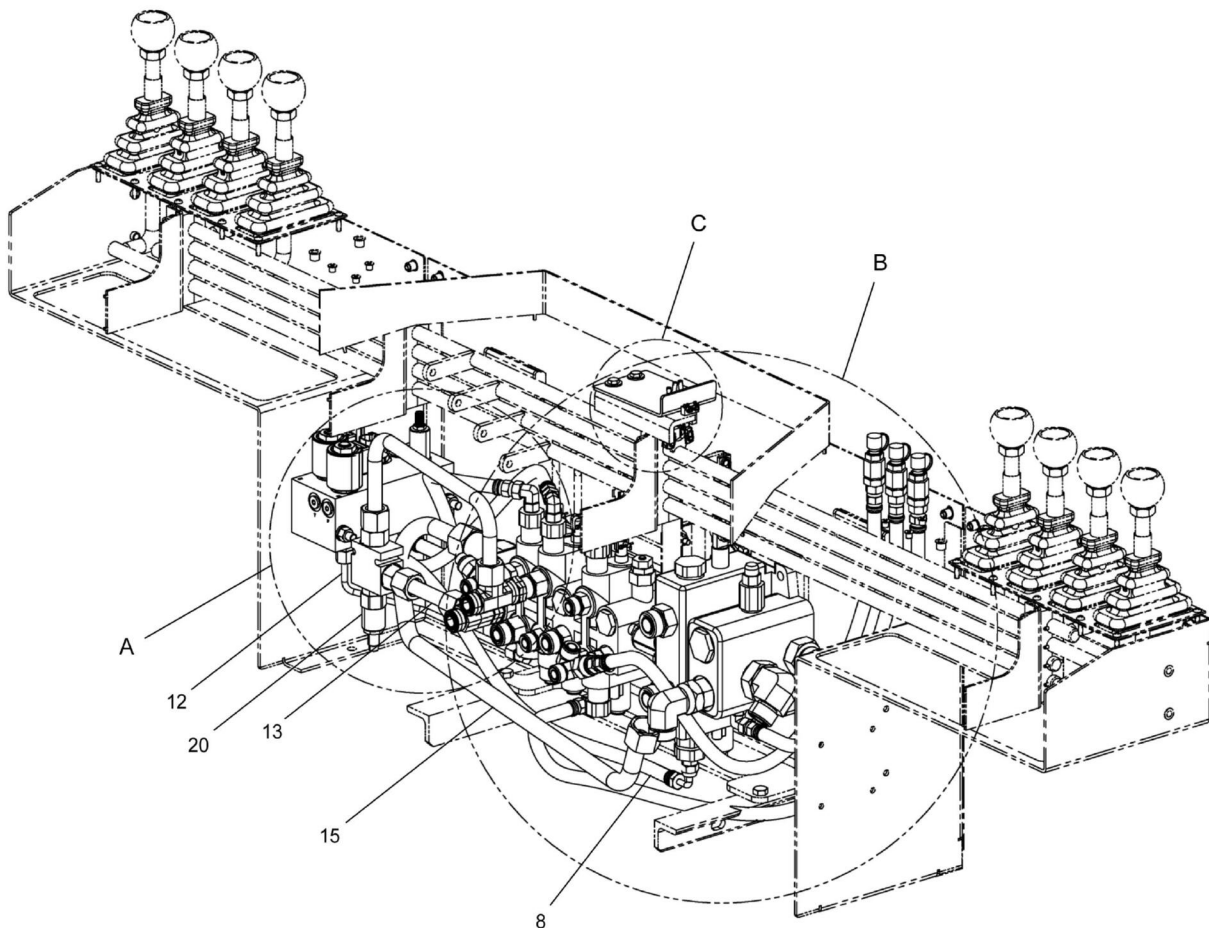
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DETAIL A

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, CONSOLE CONTROL **- CONTINUOUS ROT & NON** **CONTINUOUS COMBINED FLOW**

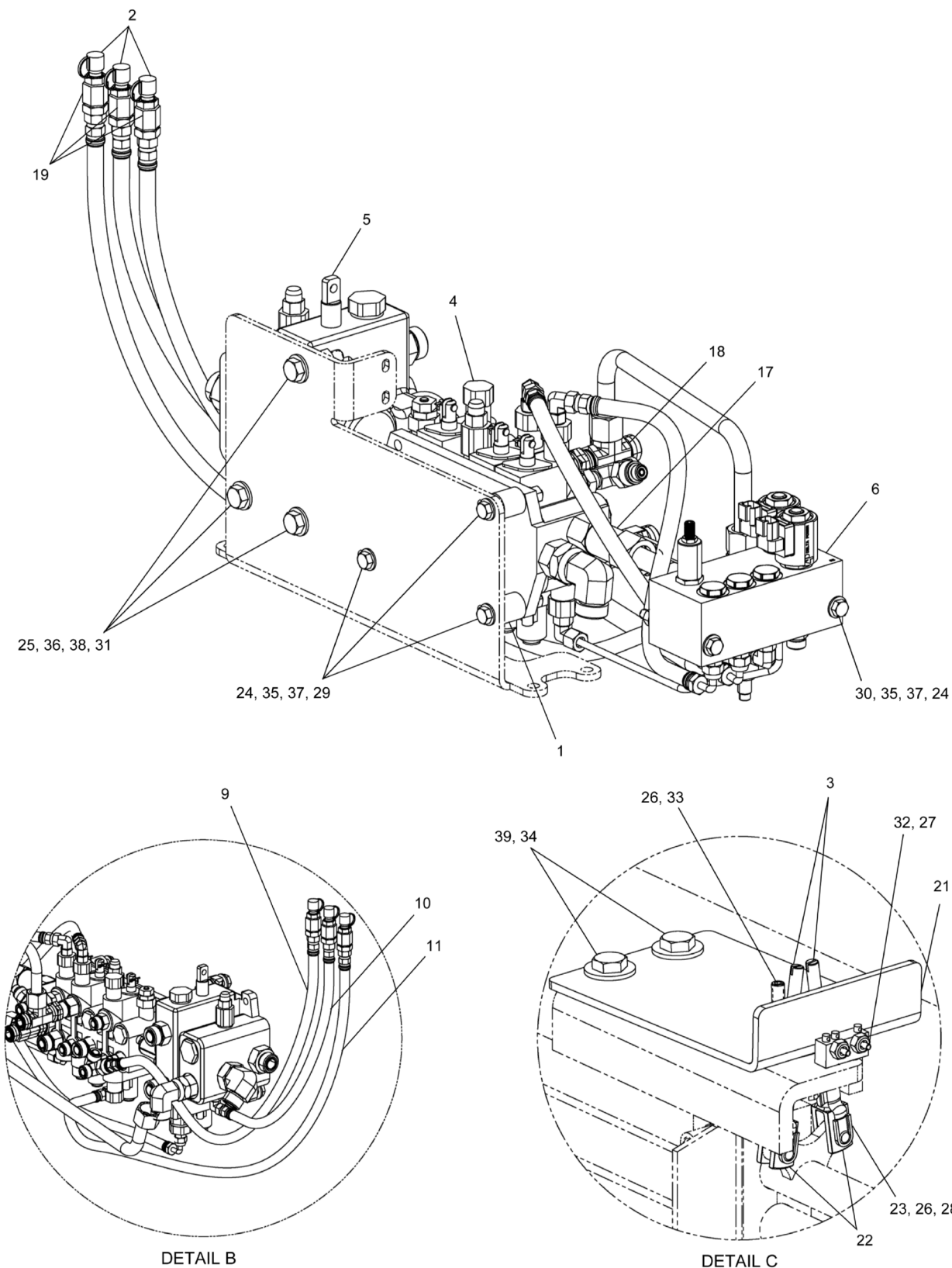
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, CONSOLE CONTROL **- CONTINUOUS ROT & NON** **CONTINUOUS COMBINED FLOW**

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REF	PART NO.	DESCRIPTION	QTY
	500-01836-01 (Rev. E)	HYD INSTL, Console	
1	001-20057	Spacer, CYL 0.406 X 1.00 X 1.00	3
2	12019-558	Dust Cap, HQC-4	3
3	229-00028	STUD, SLTD 10-32 X 2.44	2
4	500-01826	Valve ASSY (see page 134)	1
5	500-01827	Valve SUBASSY, Winch (see page 138)	1
6	500-01828	Valve ASSY, RCI (see page 140)	1
7	502-11325	Hose, LMI-Boom Topping	2
8	502-11327	Hose, LMI Winch Raise Unloadng	1
9	502-11330	Hose, Swing Test Port	1
10	502-11331	Hose, Winch Test Port	1
11	502-11332	Hose, Main Valve Test Port	1
12	510-20463	Tube, PB Unload, 0.25 DIA	1
13	510-60022	Tube, Tele Relief, 0.625 DIA	1
14	510-60023	Tube, Tele Relief, 0.625 DIA	1
15	510-70847	Tube, Power Beyond	1
16	513-60012	Adapter, MOFS-10/MORB-8	2
17	513-70040	Adapter, MOFS-12/MORB-12, L	1
18	516-86002	Tee, MOFS-10/FOFS-10SW/MOFS-10	1
19	518-20013	Parker # PD 346	3
20	559-00262	Valve, Relief	1
21	789-05957	Plate, Spring Switch	1
22	809-00508	Clevis Fork, 10-32 X 0.1875	2
23	809-00509	Clevis Bracket Weldment 0.1875	2
24	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	5
25	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	3
26	N23-190F000-20	Nut, HEX, MACH 10-32, ST SQC	5
27	NYL-086C000-22	Nut, HEX, NYL-INS 02-56, ST SQC G2	2
28	NYL-190F000-22	Nut, HEX NYL-INS 10-32, ST SQC G2	2
29	S01-375CB50-25	SCR, HHCS 0.375-16 X 2.50,ST SQC G5	3
30	S01-375CD00-25	SCR, HHCS 0.375-16 X 4.00,ST SQC G5	2
31	S01-500CB00-25	SCR, HHCS 0.50-13 X 2.00, ST Z GR5	3
32	S14-086C625-HB	SCR, SHCS 02-56 X 0.625, ST BX	2
33	S42-190F750-BX	SCR, SSS OV 10-32 X 0.75, ST BLKOX	1
34	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	2
35	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	5
36	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	3
37	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	5
38	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	3
39	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, CONSOLE CONTROL - CONTINUOUS ROT & NON CONTINUOUS COMBINED FLOW

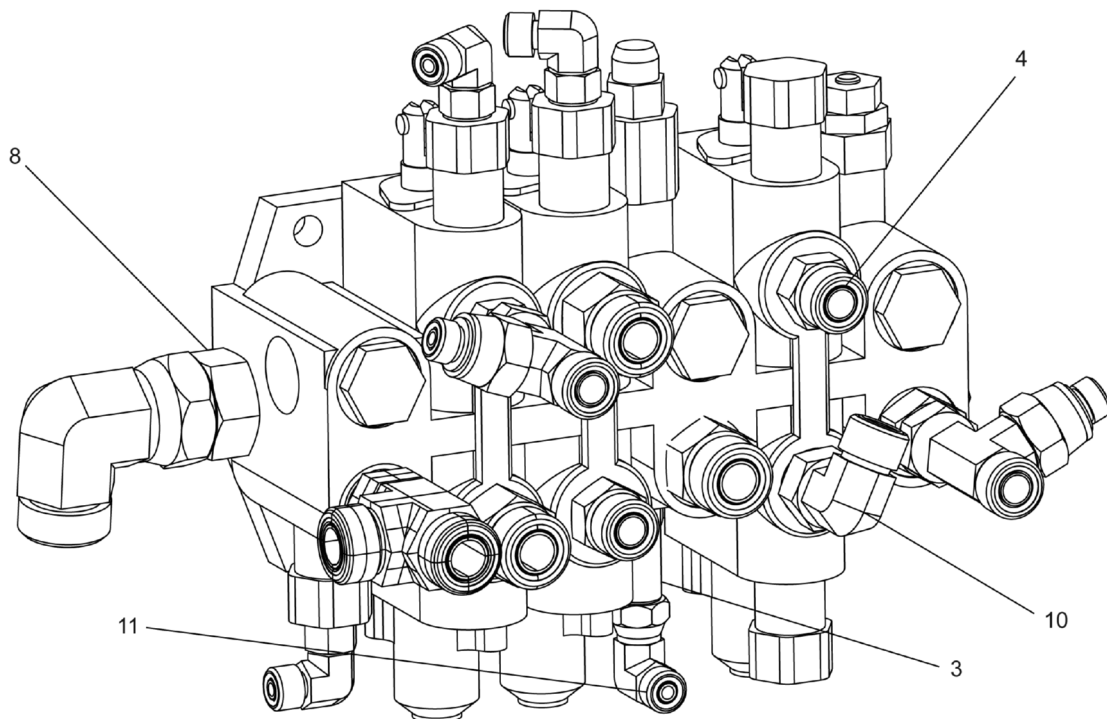
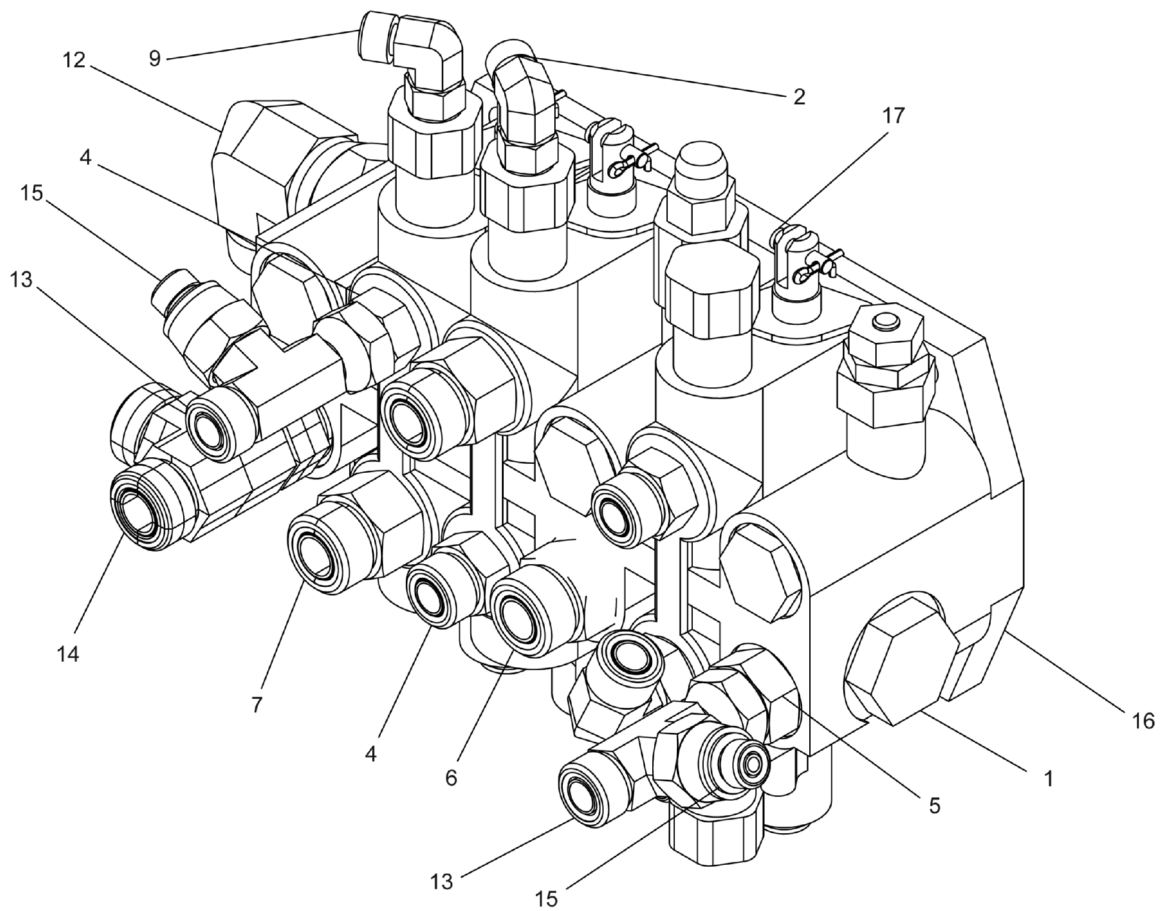
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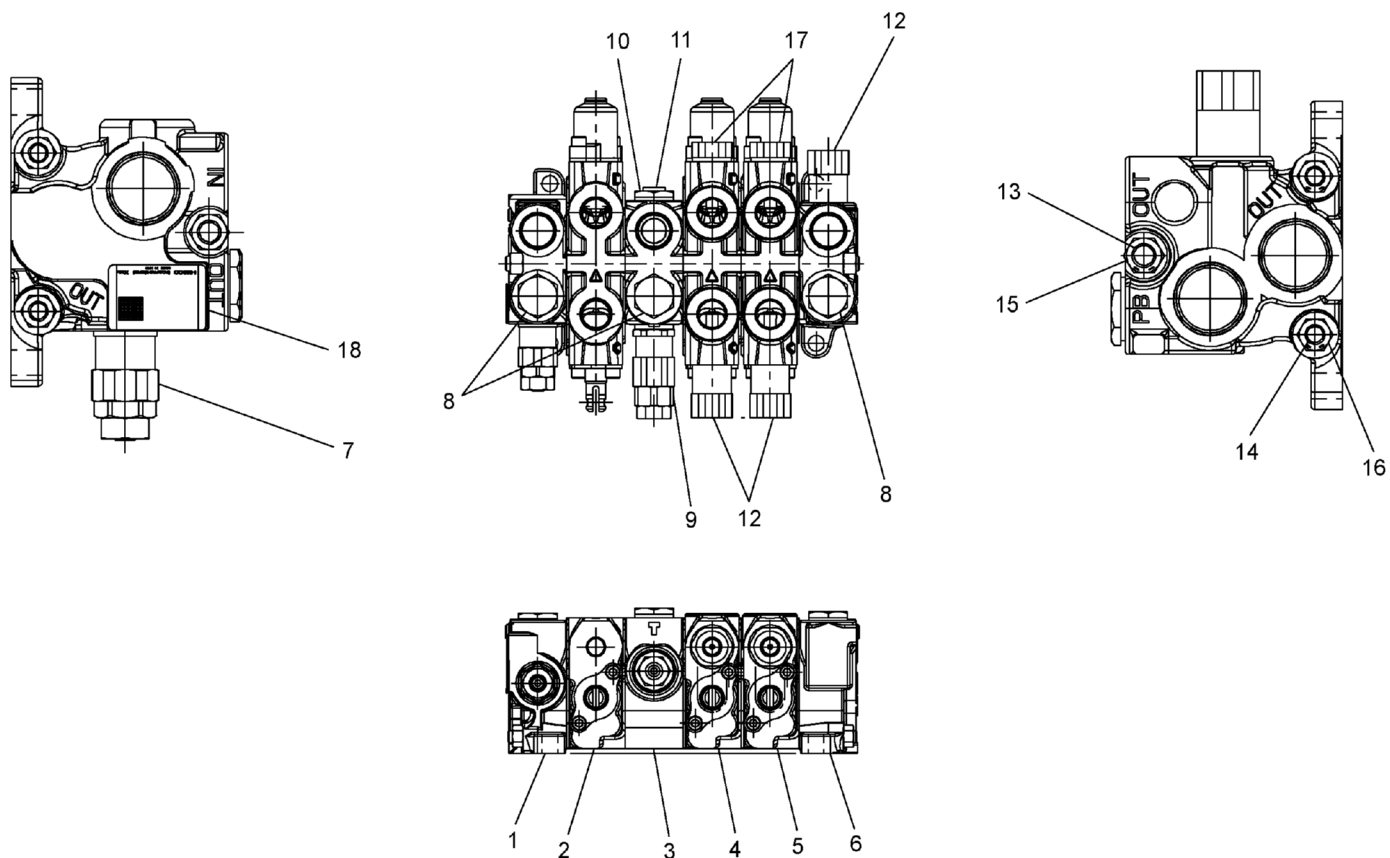


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01826 (Rev. C)	Valve ASSY	
1	1219-485	Plug, HEX, ORB-12	1
2	224-01001	PIN, COTR .09X.5 Z (1207-3)	3
3	513-30003	Adapter, MOFS-4/MORB-4, L	1
4	513-50023	Adapter, MOFS-8/MORB-8	3
5	513-50027	Adapter, MOFS-8/MORB-10	1
6	513-60008	Adapter, MOFS-10/MORB-10	1
7	513-60012	Adapter, MOFS-10/MORB-8	2
8	513-70023	Adapter, MOFS-12/MORB-12	1
9	514-52003	Elbow, 90, MOFS-4/MORB-4	3
10	514-55011	Elbow, 90, MOFS-8/MORB-8	1
11	514-62002	Elbow, 90, MOFS-4/FOFS-4SW	1
12	514-67004	Elbow Swivel 90°	1
13	516-85004	TEE, MOFS-8/FOFS-8SW/MOFS-8	2
14	516-86004	TEE, MOFS-10/MORB-10/MOFS-10	1
15	519-50012	Adapter, MOFS-4/FOFS-8SW	2
16	550-00423	Valve, Main Boom (HUSCO) (see page 136)	1
17	870-00044	OBS-PIN, Clevis .19 x .75 LG	3

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	VALVE ASSEMBLY	DATE: Revised 04-2018	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAIN VALVE ASSEMBLY (HUSCO)

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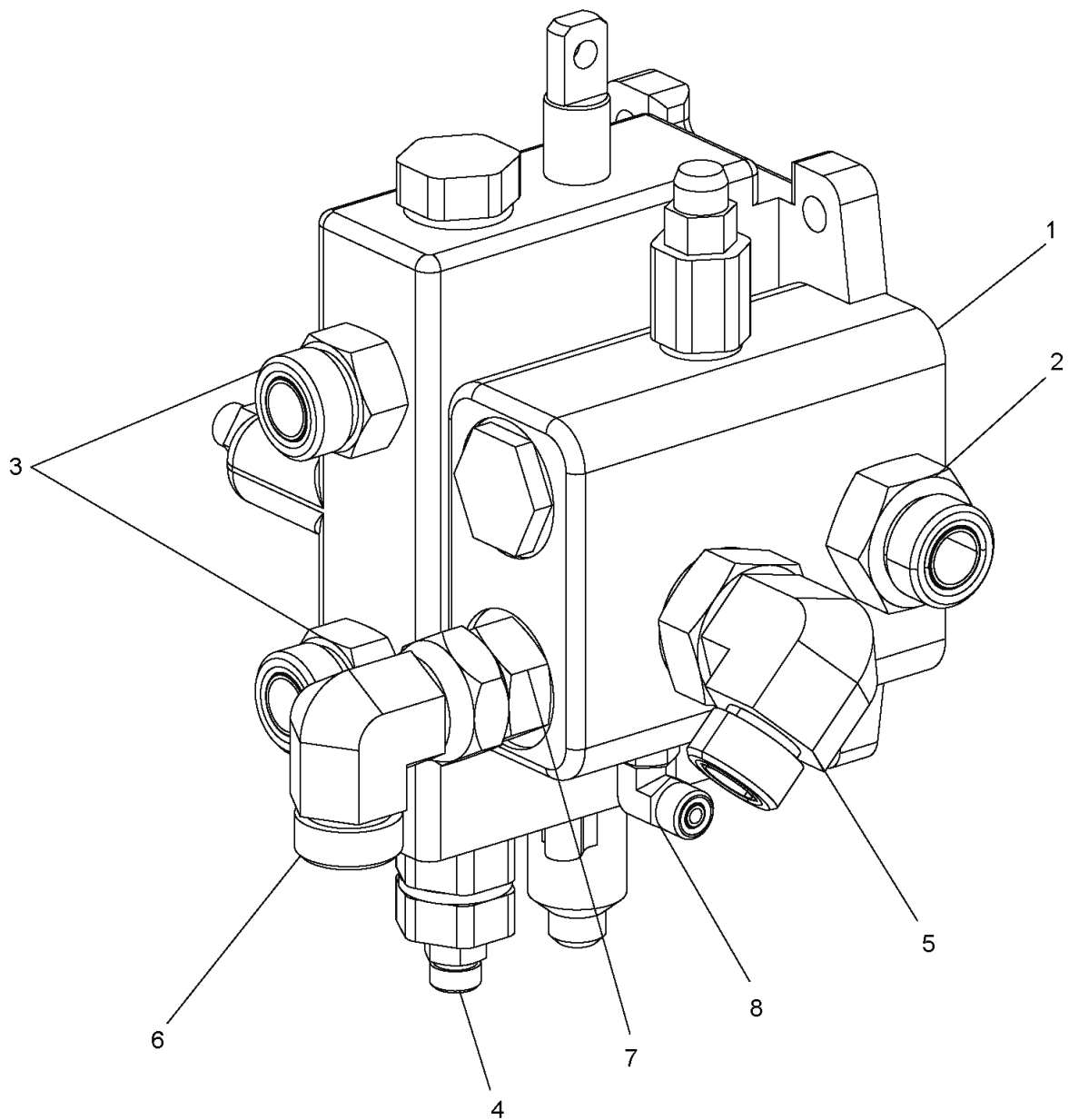
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	550-00423 (Rev. B)	Valve, Main Boom (HUSCO)	
1	230922	Inlet Section Assembly	1
2	230923	Spool Section Assembly	1
3	230924	Mid-Inlet Section Assembly	1
4	230925	Spool Section Assembly	1
5	230926	Spool Section Assembly	1
6	230927	Outlet Section Assembly	1
7	230928	Relief Valve Assembly	1
8	230929	Plug Assembly -SAE	3
9	230930	Relief Valve Assembly	1
10	230931	Plug Assembly -SAE	1
11	230932	Plug Assembly -SAE	1
12	230933	Anti-Void Assembly -VENTABLE	3
13	230934	Tie Rod	1
14	230935	Tie Rod	2
15	230936	Nut-Special	2
16	230937	Nut-Special	4
17	230938	Shut-Off Plug Assembly	2
18	223169	Name Plate Assembly	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	MAIN VALVE ASSEMBLY (HUSCO)	DATE: Released 04-2018	CHAPTER 1
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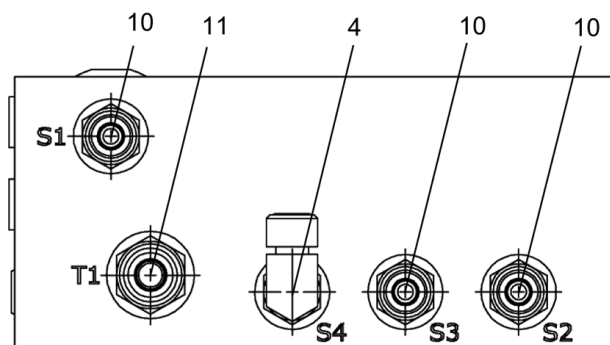
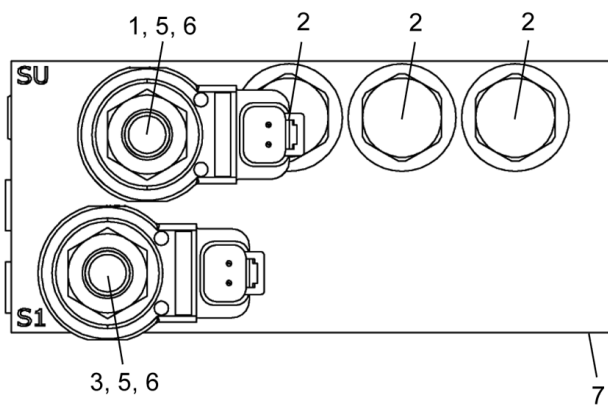
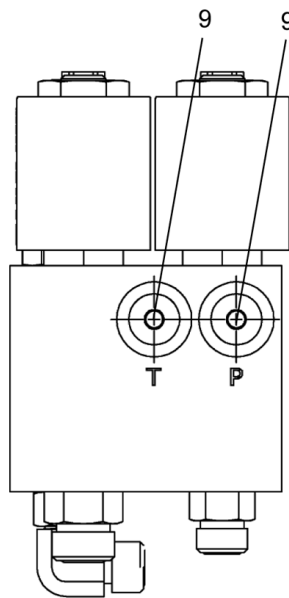
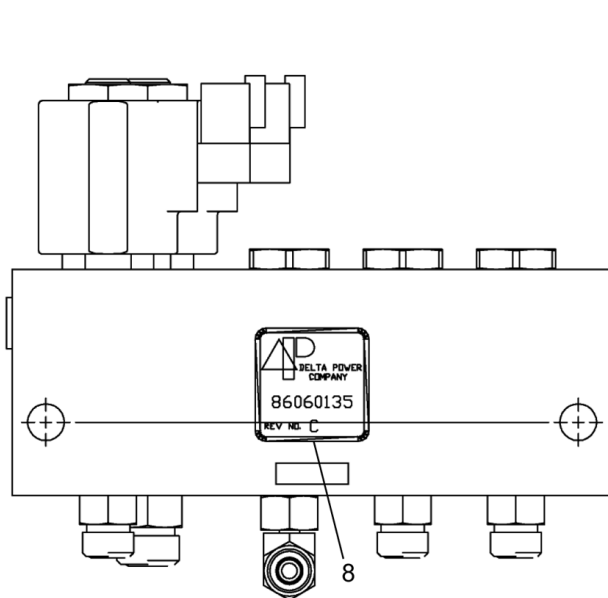


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01827 (Rev. C)	Valve SUBASSY, Winch	
1	550-00420	Valve, Winch Control	1
2	513-70026	Adapter, MOFS-12/MORB-16	1
3	513-70023	Adapter, MOFS-12/MORB-12	2
4	513-20017	Adapter, MOFS-4/MORB-4	1
5	514-59023	Elbow, 90, MOFS-12/MORB-16	1
6	514-67004	Elbow Swivel 90°	1
7	552-10287	Check Valve	1
8	514-52003	Elbow, 90, MOFS-4/MORB-4	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	VALVE SUBASSEMBLY, WINCH	DATE: Revised 09-2017	CHAPTER 1
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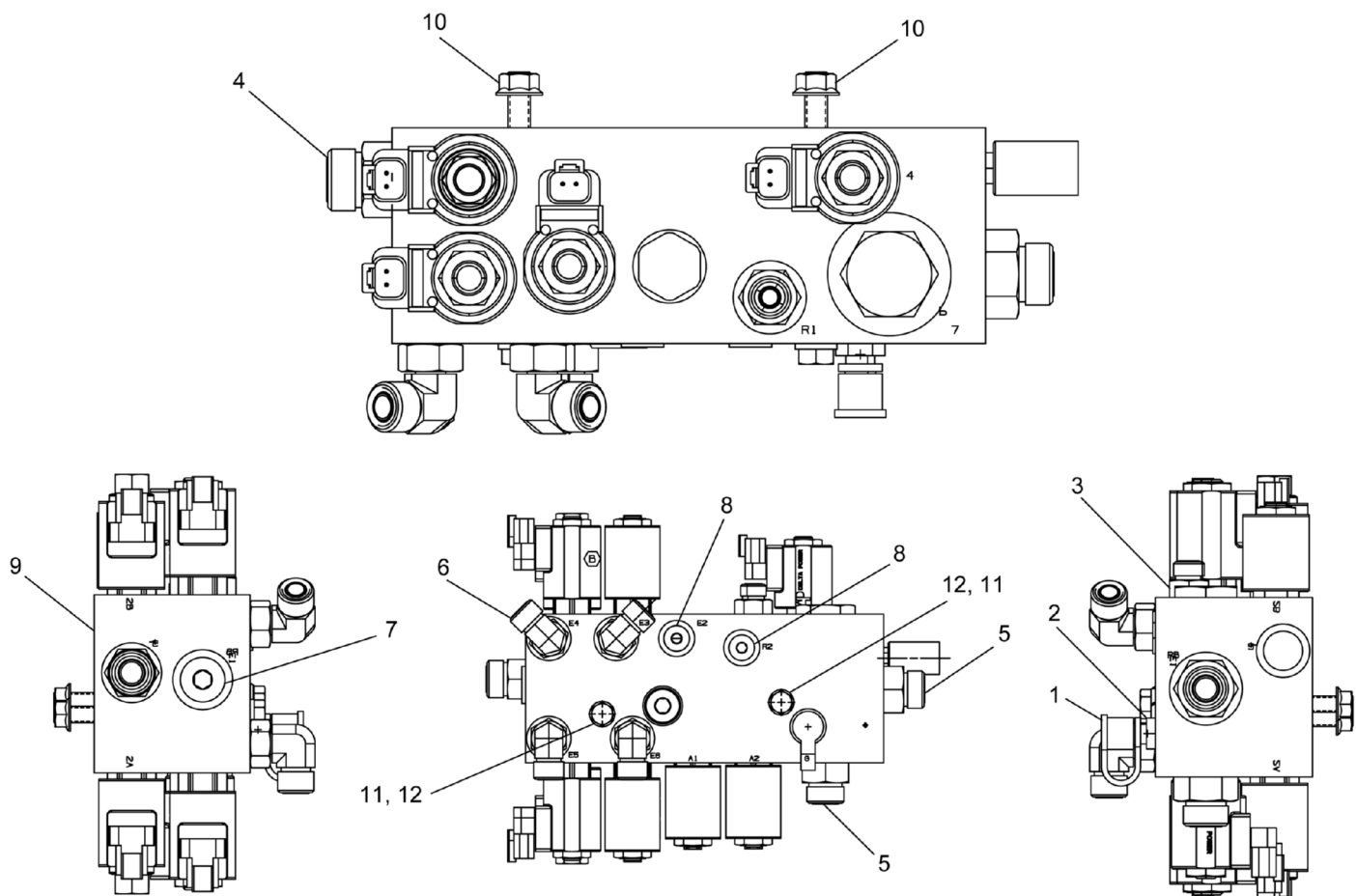


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01828 (Rev. B)	<i>Valve ASSY, RCI</i>	
1	222903	2W N.O. Spool Valve	1
2	222904	Check Valve	3
3	222905	3W2P Spool Valve	1
4	514-52003	Elbow, 90, MOFS-4/MORB-4	1
5	222906	12 VDC Coil	2
6	222907	Coil Nut	2
7	222908	Manifold	1
8	222909	Manifold Tag	1
9	517-30014	Plug, M#04 ORB INT HEX	2
10	513-20017	Adapter, MOFS-4/MORB-4	3
11	513-40014	Adapter, MOFS-6/MORB-6	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	VALVE ASSEMBLY, LMI	DATE: Released 12-2013	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



OUTRIGGER VALVE

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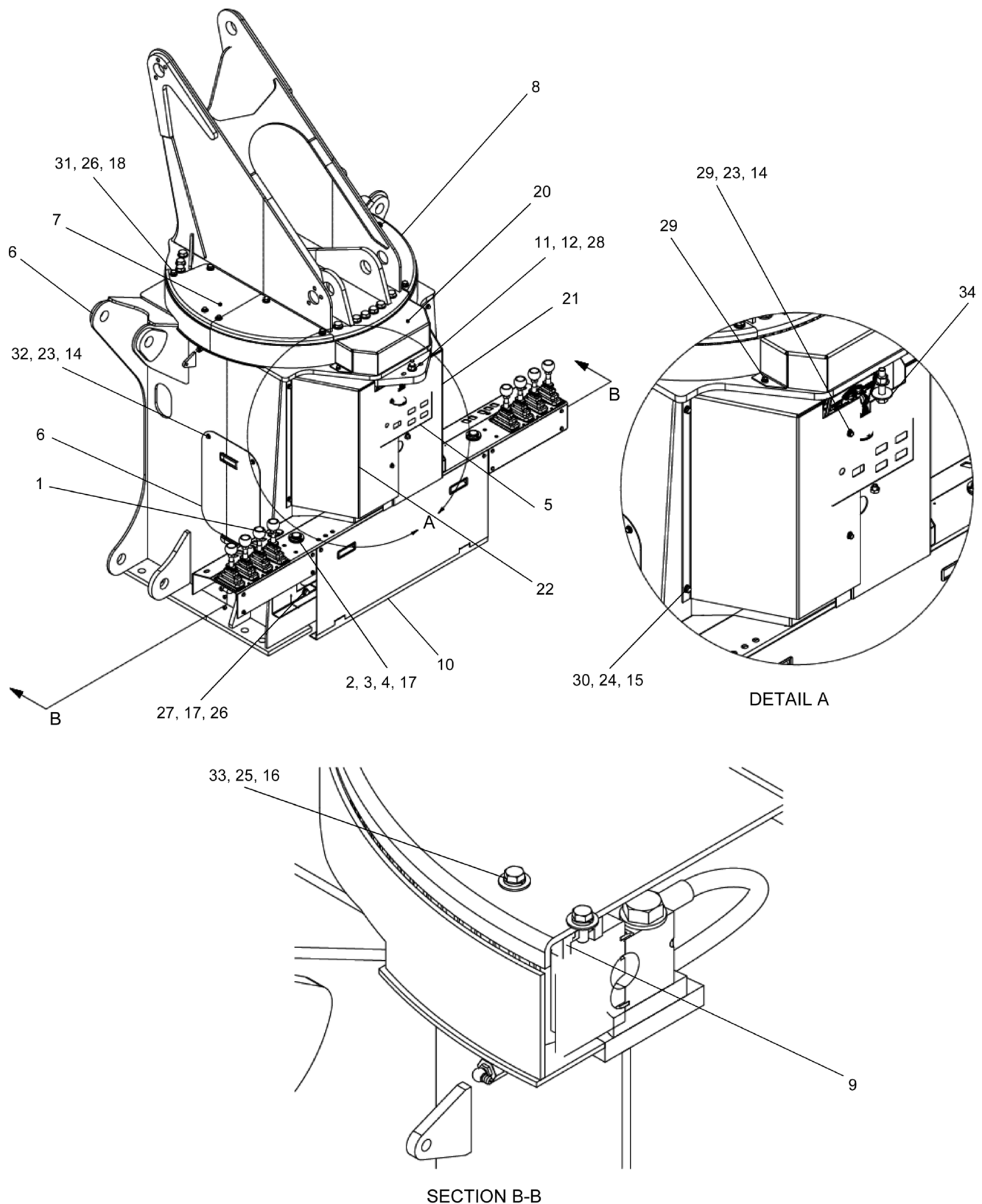
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01844 (Rev. C)	Valve SUBASSY, Outrigger	
1	120-19558	Dust Cap	1
2	375-0400	Adapter, MORB-6/HQC-4	1
3	513-40018	Adapter, MOFS-6/MORB-8	1
4	513-60008	Adapter, MOFS-10/MORB-10	1
5	513-60015	Adapter, MOFS-10/MORB-12	2
6	514-55011	Elbow, 90, MOFS-8/MORB-8	4
7	517-30002	Plug, HEX HEAD 0.625	1
8	517-30003	Port Plug M6 ORB	2
9	551-10148	Valve, Outrigger	1
10	NFS-375C000-25	Nut, HEX, FLG, SER.375-16, ST SQC G5	2
11	S01-375CD50-25	SCR, HHCS 0.375-16 X 4.50, ST SQC G5	2
12	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	OUTRIGGER VALVE	DATE: Revised 04-2018	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MAINFRAME CONSOLE ASSEMBLY

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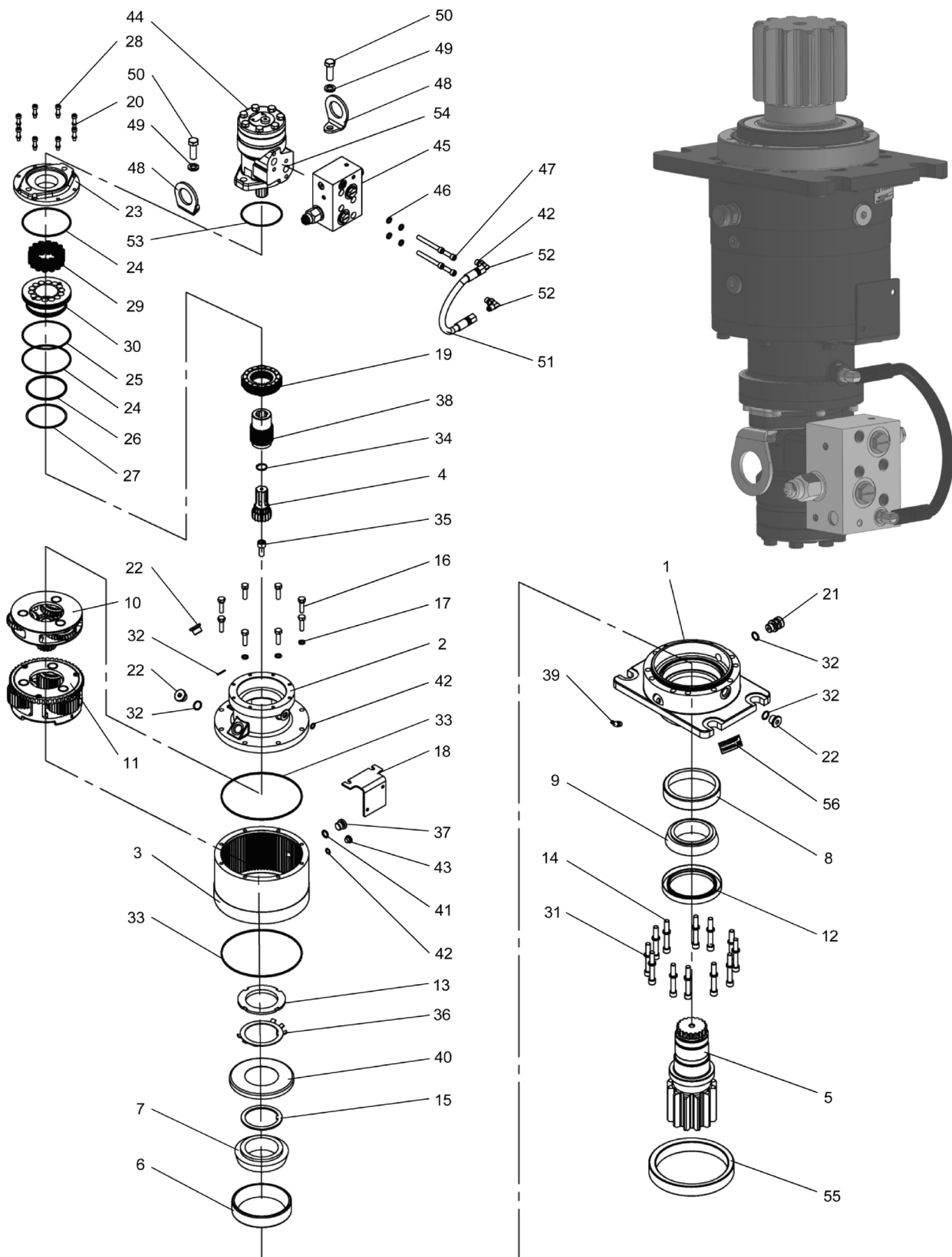
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REF	PART NO.	DESCRIPTION	QTY
	695-00185 (Rev. F)	Mainframe-Console ASSY	
1	1245-162	Meter, Hour	1
2	209-00831	BRKT, Bubble Level Mounting	2
3	209-00832	Bubble Level	2
4	263-00044	Gasket-Level Mounting	2
5	695-10021	Switch Box ASSY, Outriggers (see page 82)	1
6	700-01000	Mainframe - Turret Assembly (see page 88)	1
7	719-00478	Cover, Bearing -RH	1
8	719-00479	Cover, Bearing -LH	1
9	729-02235	Wear Pad, 6.75 X 1.75 X 0.75	2
10	800-50058	Control Console ASSY	1
11	NYL-625C000-25	Nut, HEX NYL-INS 0.625-11, ST SQC G5	1
12	S01-625CC25-Y8	SCR, HHCS 0.625-11 X 3.25, ST SQC G8	1
13*	S16-164C750-20	SCR, FSHCS 08-32 X 0.75, ST SQC	6
14	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	8
15	SHF-312C750-25	SCR, HHCS FT 0.312-18 X 0.75, ST SQC G5	4
16	SHF-375C875-25	SCR, HHCS FT 0.375-16 X 0.875, ST SQC G5	4
17	SHF-500C750-25	SCR, HHCS FT 0.50-13 X 0.75, ST SQC G5	4
18	SHF-500CA00-25	SCR, HHCS FT 0.50-13 X 1.00, ST SQC G5	8
19*	T110469	ASSY, Mainframe Access CVR (see page 90)	2
20	T126910	Cover, Pinion	1
21	T126911	Cover ASSY, Swing Motor	1
22	T126913	Cover, Swing Motor	1
23	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	8
24	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	4
25	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	4
26	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	12
27	WAH-50NX000-Y2	WSH, FL HRD A-NRW 0.50, ST YZ	4
28	WAH-62NX000-Y2	WSH, FL HRD A-NRW 0.625, ST YZ	1
29	WAN-25NX000-20	WSH, FL TYPA-NRW 0.25, ST SQC	4
30	WAN-31NX000-20	WSH, FL TYPA-NRW 0.3125, ST SQC	4
31	WAN-50NX000-20	WSH, FL TYPA-NRW 0.50, ST SQC	8
32	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	4
33	WBR-37RXA00-20	WSH, FL TYPB - REG 0.375, ST Z	4
34	WFT-625XB00-20	WSH, FNDR 0.625 X 2.00 X 0.125, ST SQC	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	MAINFRAME CONSOLE ASSEMBLY	DATE: Released 01-2015	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SWING DRIVE - GEARBOX (OMNIGEAR)

DATE: Revised 05-2017

MODEL: 19-70

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REF	PART NO.	DESCRIPTION	QTY
	T146435 (Rev. A)	Swing Drive (OMNIGEAR)	
1	229608	Housing - HR	1
2	229609	End Cap Input - BK	1
3	229610	Gear, Ring 77T	1
4	229611	Gear Sun, Primary 16T	1
5	229612	Output Shaft Pinion 12T - G3	1
6	229613	Bearing Cup	1
7	229614	Bearing Cone	1
8	229615	Bearing Cup	1
9	229616	Bearing Cone	1
10	229617	Primary Carrier Sub-ASSY	1
11	229618	Secondary Carrier Sub-ASSY	1
12	229619	Oil Seal	1
13	229620	Lock Nut, M70X2	1
14	229621	Socket Head Capscrew. M10X1.25, GR10.9	12
15	229622	Spacer, Flat Tongued	1
16	229623	HEX Head Bolt, M8X1.25, GR.10.9	8
17	229596	Lock Washer, M8	8
18	229624	Bracket, Conditioner W.A.D.	1
19	229625	Brake	1
20	229626	Spring Washer, M6	8
21	229627	Breather Plug, M18X1.5	1
22	229628	Flange Plug, M18X1.5	3
23	229629	Motor Adaptor - A1	1
24	229630	O-Ring	2
25	229631	Back Up Ring For O-Ring- 154	1
26	229632	O-Ring	1
27	229633	Back Up Ring For O-Ring- 237	1
28	229634	Socket Head ACP Screw, M6X1.0, GR.10.9	8
29	229635	Spring	14
30	229636	Hydraulic Piston	1
31	229637	Lock Washer, M10	12
32	229638	O-Ring (15.3 X 2.2)	4
33	229639	O-Ring (164.8 X 2.6)	2
34	229640	Retaining Ring, Internal, #22	1
35	229641	Socket Head Capscrew, M10X1.25, GR.8.8	1
36	229642	Lock Nut Washer, M70	1
37	229643	Flange Plug, 5/8"-18UNF	1
38	229644	Break Rotor	1
39	229645	Grease Zerk 1/8"-27 NPT	1
40	229647	Grease Shield	1
41	229648	Flange Plug, 7/16"-20UNF	1
42	229605	O-Ring	3
43	229649	O-Ring # 112	1
44	229594	Hydraulic Motor	1
45	229595	Manifold Assembly	1
46	229596	Lock Washer, M8	4
47	229597	Socket Head Capscrew M8X1.25X65	4
48	229598	Lift LUG	2
49	229599	Lock Washer, 1/2	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SWING DRIVE - GEARBOX (OMNIGEAR)

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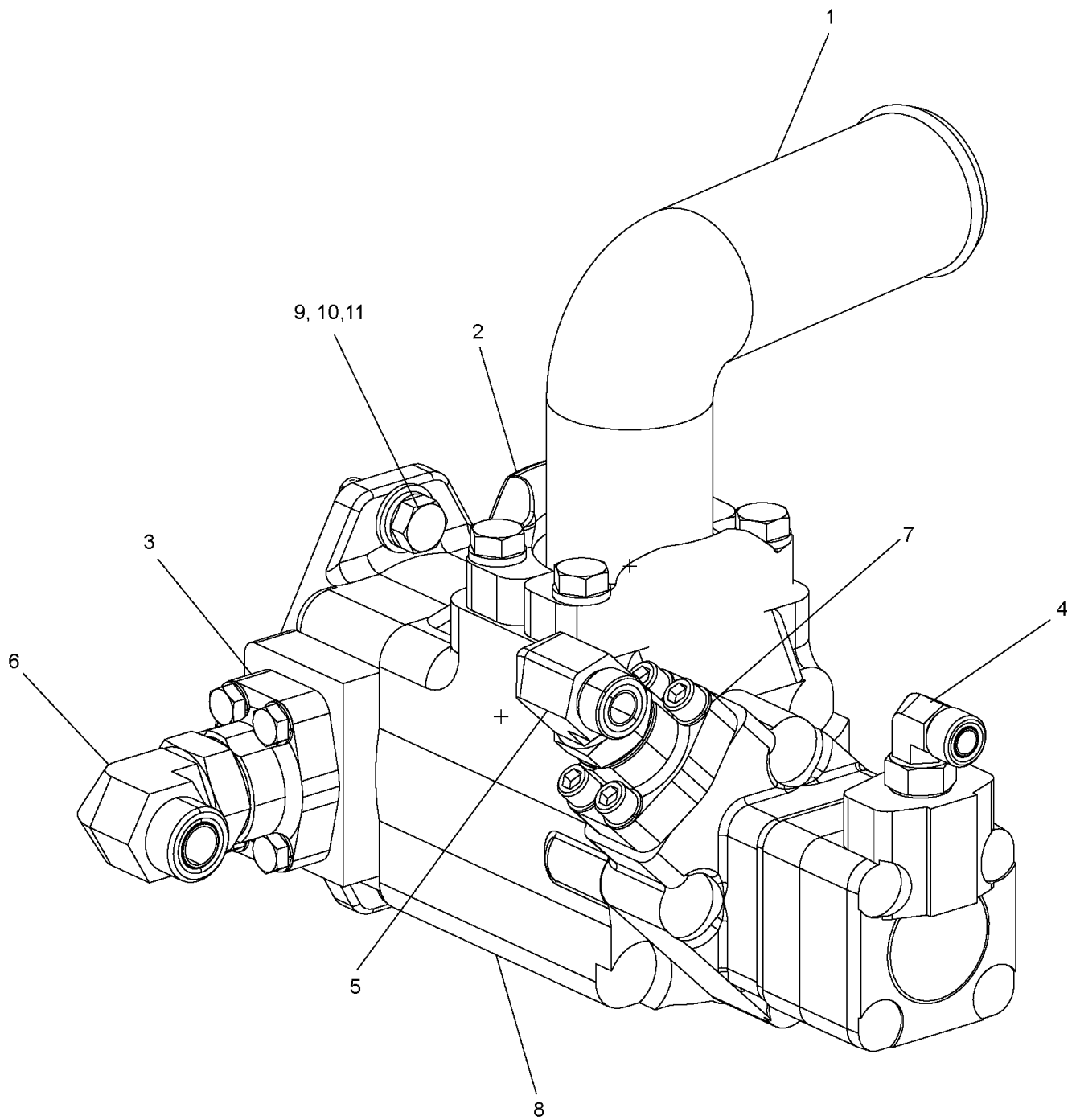
CHAPTER

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T146435 (Rev. A)	<i>Swing Drive (OMNIGEAR)</i>	
50	229600	Capscrew, 1/2" - 13UNC	2
51	229075	Hydraulic Hose	1
52	229602	Set. Thread Elbow	2
53	229603	O-Ring Hydraulic Port	2
54	229604	O-Ring, Motor Pilot	1
55	229606	Eccentric Ring	1
56	229076	ID Tag	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	SWING DRIVE - GEARBOX (OMNIGEAR)	DATE: Revised 05-2017	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC PUMP OPTIONS

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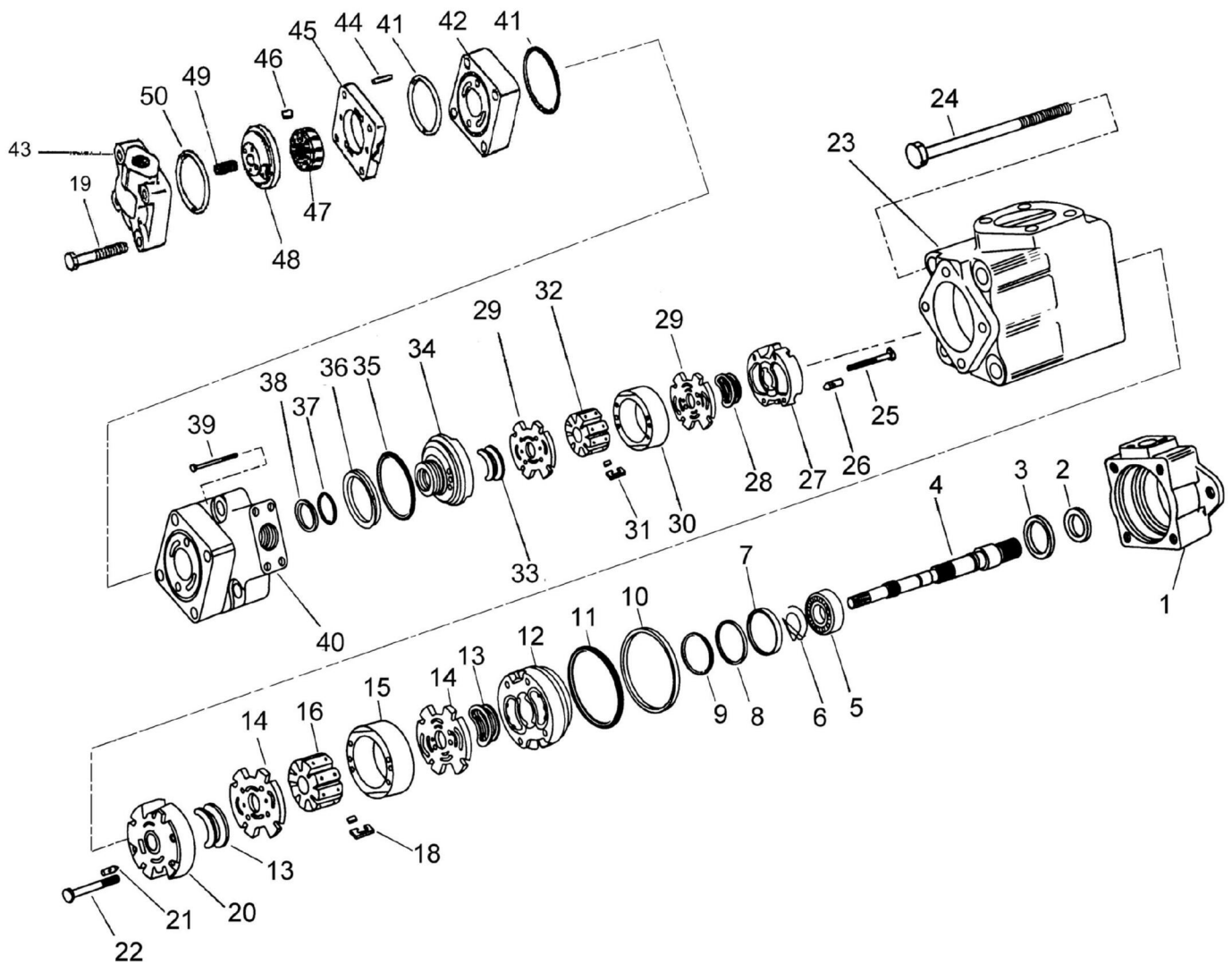
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	521-00084-3 (Rev. B)	<i>Pump Installation</i>	
1	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1
2	505-06004	Clamp, C61-40, Kit	1
3	513-90064	Adapter, MORB-16/C91-16, Kit	1
4	514-55011	Elbow, 90, MOFS-8/MORB-8	1
5	514-56004	Elbow, 90, MOFS-10/MORB-12	1
6	514-59023	Elbow, 90, MOFS-12/MORB-16	1
7	519-90067	ADPTR, FLG -12SAE X -12 ORB W/HDWR	1
8	520-00053-2	Pump, Triple Eaton #BBC-LH (see page 151)	1
9	S01-500CA50-Y8	SCR, HHCS 0.50-13 X 1.50,ST SQC G8	2
10	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2
11	WAH-50NX000-20	WSH, FL HRD A-NRW 0.50, ST SQC	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

REF	PART NO.	DESCRIPTION	QTY
	520-00053-2 (Rev. 00)	<i>Pump, Triple Eaton #BBC-LH</i>	
1	935-00119	Back Up Ring	1
2	935-00101	Primary Shaft Seal	1
3	935-00033	Washer	1
4	935-00097	Shaft (297 Type)	1
5	935-00020	Bearing	1
6	935-00025	Ring	1
7	935-00034	Lockring	1
8	935-00119	Back Up Ring	1
9	935-00026	O-Ring	1
10	935-00151	Seal Ring	1
11	935-00030	O-Ring	1
12	935-00150	Outlet Plate	1
13	935-00149	Seal Pac.	4
14	935-00120	Flex Side Plate	2
15	935-00148	Ring	1
16	935-00044	Rotor	1
17*	935-00091	Pump Seal Kit	REF
18	935-00056	Vane KiT	1
19	935-00088	Bolt	1
20	935-00146	Inlet Plate	1
21	935-00147	Pin	2
22	935-00145	Hex Head Screw	2
23	935-00041	Inlet Cover	1
24	935-00024	Bolt	4
25	935-00140	Screw	2
26	935-00141	Pin	2
27	935-00142	Inlet Plate	1
28	935-00143	Seal Pac.	4
29	935-00121	Side Plate Kit	1
30	935-00139	Ring	1
31	935-00144	Vane Kit	1
32	935-00138	Rotor	1
33	935-00143	Seal Pac.	4
34	935-00117	Outlet Plate	1
35	935-00028	O-Ring	1
36	935-00136	Seal Ring	1
37	935-00060	O-Ring	1
38	935-00122	Back-Up Ring	1
39	935-00022	Bolt	4
40	935-00135	Rear Mounting Cover	1
41	935-00093	O-Ring	2
42	935-00111	Wear Plate	1
43	935-00100	V10 Cover Option	1
44	935-00095	Pin	2
45	935-00110	Ring	1
46	935-00109	Vane Kit	1
47	935-00108	Rotor	1
48	935-00107	Pressure Plate	1
49	935-00106	Spring	1

* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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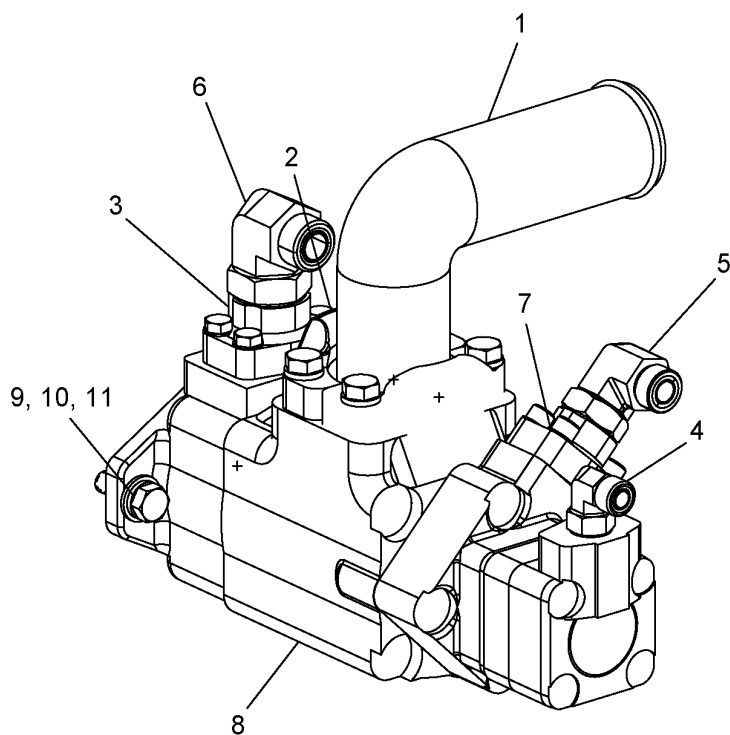
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	520-00053-2 (Rev. 00)	<i>Pump, Triple Eaton #BBC-LH</i>	
50	935-00093	O-Ring	1

* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PUMP AUTO TRANS INSTALLATION

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	521-00084-6 (Rev. D)	<i>Pump Auto Trans Installation</i>	
1	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1
2	505-06004	Clamp, C61-40, Kit	1
3	513-90064	Adapter, MORB-16/C91-16, Kit	1
4	514-55011	Elbow, 90, MOFS-8/MORB-8	1
5	514-56004	Elbow, 90, MOFS-10/MORB-12	1
6	514-59023	Elbow, 90, MOFS-12/MORB-16	1
7	519-90067	ADPTR, FLG -12SAE X -12 ORB W/HDWR	1
8	520-00053-4	Pump, Triple Eaton #CCC-RH (see page 156)	1
9	S01-500CA50-Y8	SCR, HHCS 0.50-13 X 1.50,ST SQC G8	2
10	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2
11	WAH-50NX000-20	WSH, FL HRD A-NRW 0.50, ST SQC	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PUMP AUTO TRANS INSTALLATION

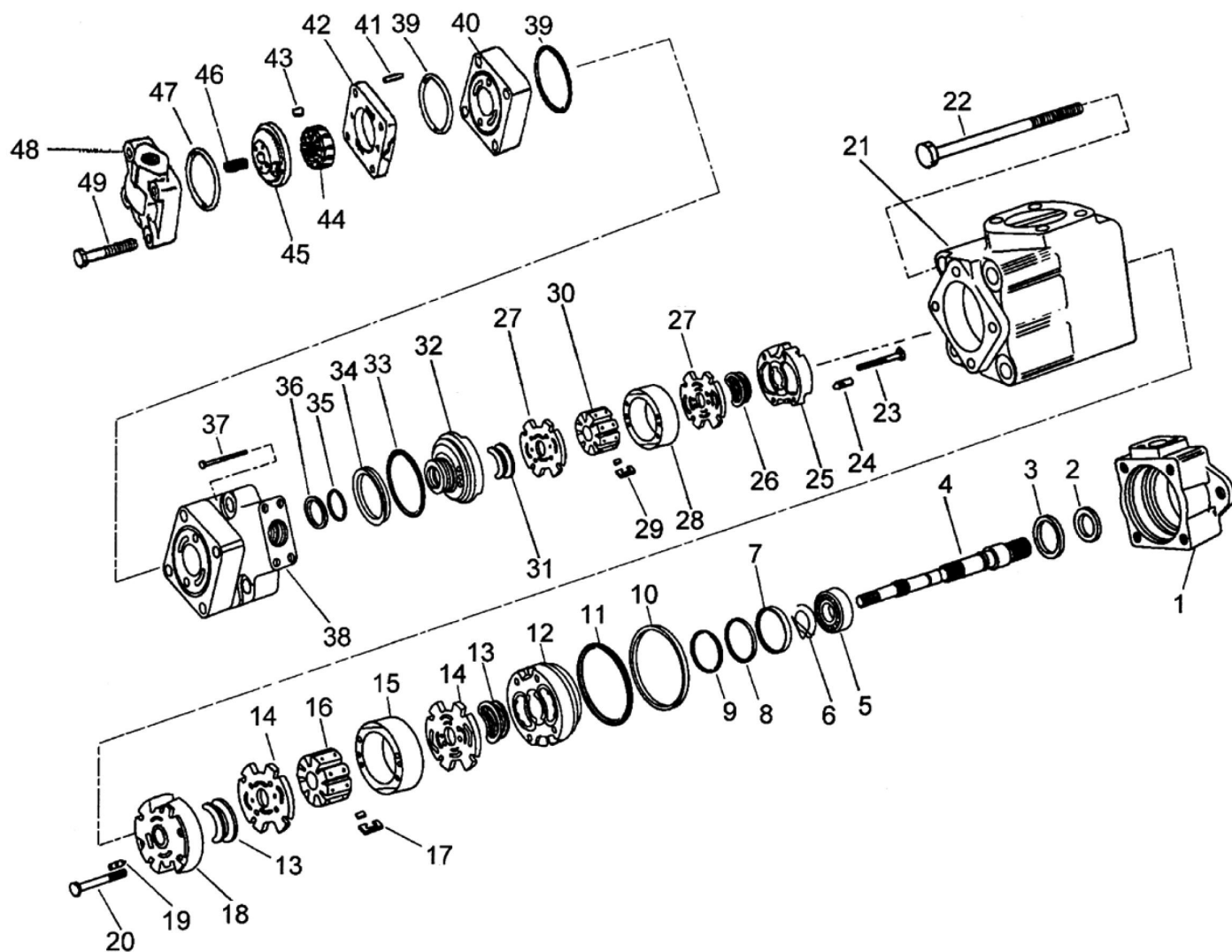
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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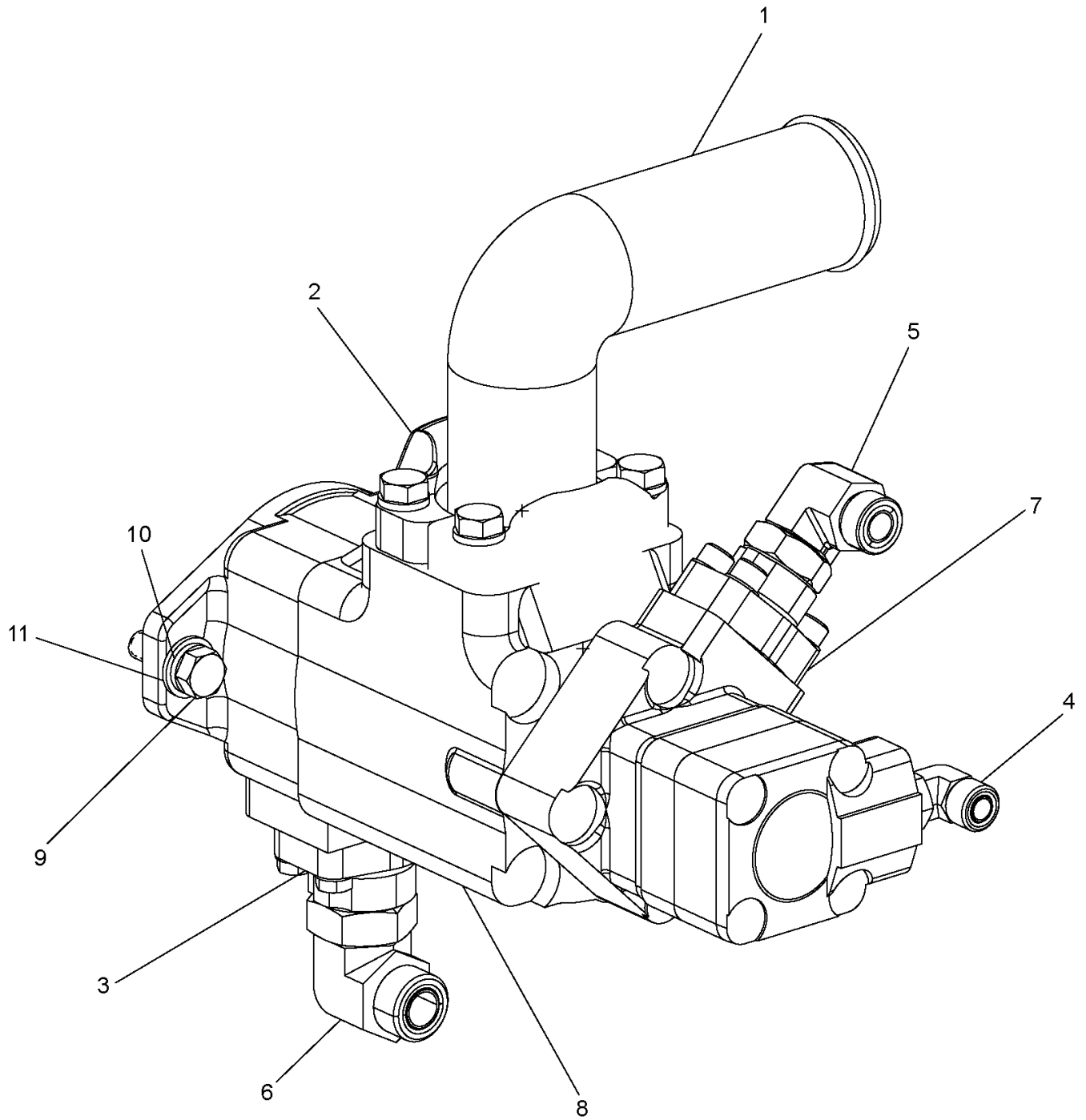
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REF	PART NO.	DESCRIPTION	QTY
	520-00053-4 (Rev. B)	<i>Pump, Triple Eaton #CCC-RH</i>	
1	935-00119	Back Up Ring	1
2	935-00101*	Primary Shaft Seal	1
3	935-00033	Washer	1
4	935-00097	Shaft (297 Type)	1
5	935-00020	Bearing	1
6	935-00025	Ring	1
7	935-00034	Lockring	1
8	935-00119	Back Up Ring	1
9	935-00026*	O-Ring	1
10	935-00151	Seal Ring	1
11	935-00030*	O-Ring	1
12	935-00150	Outlet Plate	1
13	935-00149	Seal Pac.	4
14	935-00120	Flex Side Plate	2
15	935-00148	Ring	1
16	935-00044	Rotor	1
17	935-00056	Vane KiT	1
18	935-00146	Inlet Plate	1
19	935-00147	Pin	2
20	935-00145	Hex Head Screw	2
21	935-00041	Inlet Cover	1
22	935-00024	Bolt	4
23	935-00140	Screw	2
24	935-00141	Pin	2
25	935-00142	Inlet Plate	1
26	935-00143	Seal Pac.	4
27	935-00121	Side Plate Kit	1
28	935-00139	Ring	1
29	935-00144	Vane Kit	1
30	935-00138	Rotor	1
31	935-00143	Seal Pac.	4
32	935-00117	Outlet Plate	1
33	935-00028*	O-Ring	1
34	935-00136	Seal Ring	1
35	935-00060*	O-Ring	1
36	935-00122	Back-Up Ring	1
37	935-00022	Bolt	4
38	935-00135	Rear Mounting Cover	1
39	935-00093*	O-Ring	2
40	935-00111	Wear Plate	1
41	935-00095	Pin	2
42	935-00110	Ring	1
43	935-00109	Vane Kit	1
44	935-00108	Rotor	1
45	935-00107	Pressure Plate	1
46	935-00106	Spring	1
47	935-00093*	O-Ring	1
48	935-00100	V10 Cover Option	1
49	935-00088	Bolt	1

* 935-00091 REQUIRED FOR REPLACEMENT

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYDRAULIC PUMP ASSEMBLY (VICKERS)	DATE: Revised 04-2018	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	521-00084-7 (Rev. C)	<i>Hose Kit, 8 Bolt PTO</i>	
1	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1
2	505-06004	Clamp, C61-40, Kit	1
3	513-90064	Adapter, MORB-16/C91-16, Kit W/HDWR (see page 160)	1
4	514-55011	Elbow, 90, MOFS-8/MORB-8	1
5	514-56004	Elbow, 90, MOFS-10/MORB-12	1
6	514-59023	Elbow, 90, MOFS-12/MORB-16	1
7	519-90067	ADPTR, FLG -12SAE X -12 ORB W/HDWR	1
8	520-00053-3	Pump, Triple Eaton #ACD-LH (see page 161)	1
9	S01-500CA50-Y8	SCR, HHCS 0.50-13 X 1.50,ST SQC G8	2
10	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2
11	WAH-50NX000-20	WSH, FL HRD A-NRW 0.50, ST SQC	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC PUMP OPTIONS

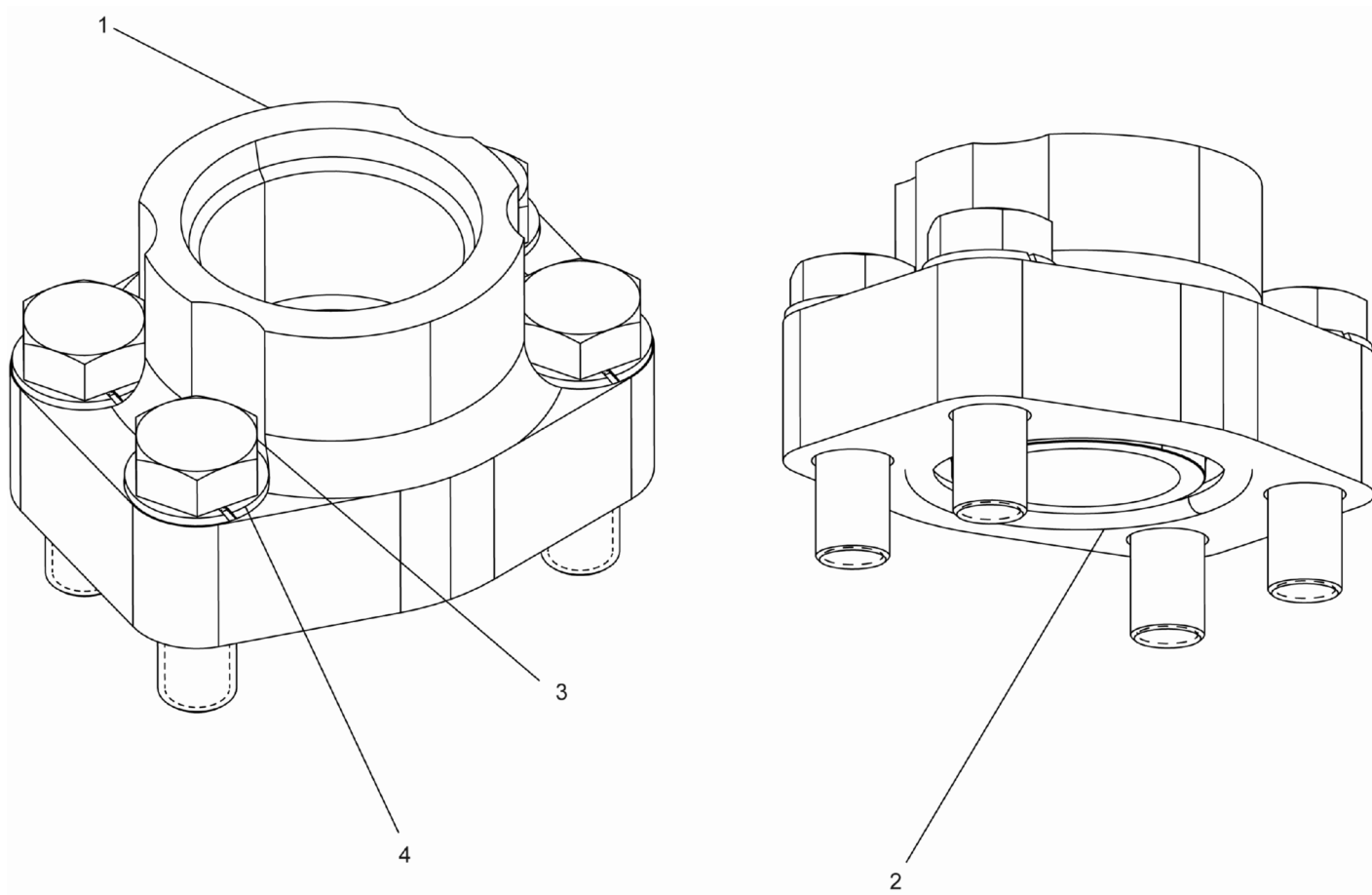
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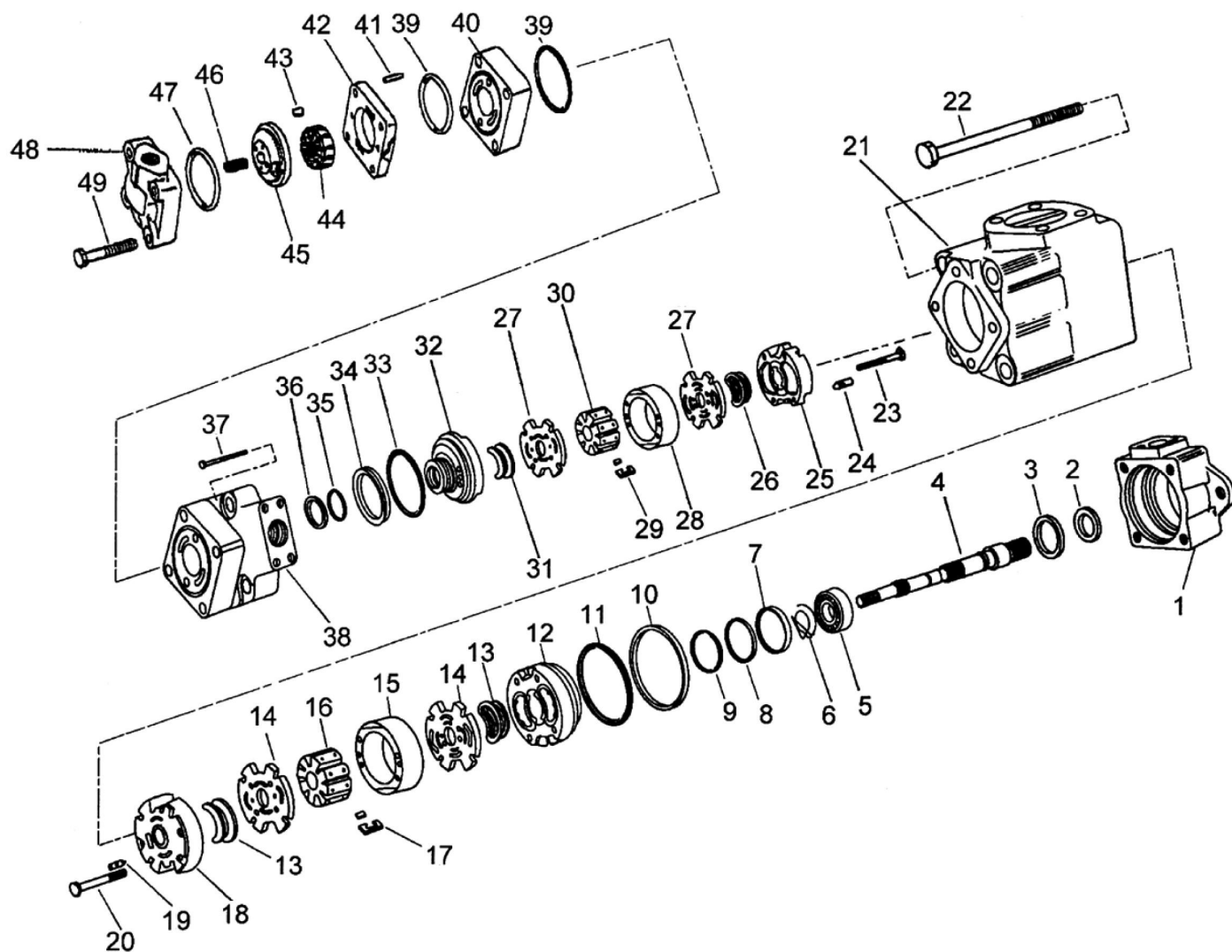
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	513-90064 (Rev. C)	Adapter, MORB-16/C91-16, Kit W/HDWR	
1	513-90064-001	Adapter, MORB-16/C91-16	1
2	1218-103	O-Ring, SAE C61/62-16	1
3	SHF-375CA25-25	SCR, HHCS FT 0.375 - 16X1.25, STZ G5	4
4	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



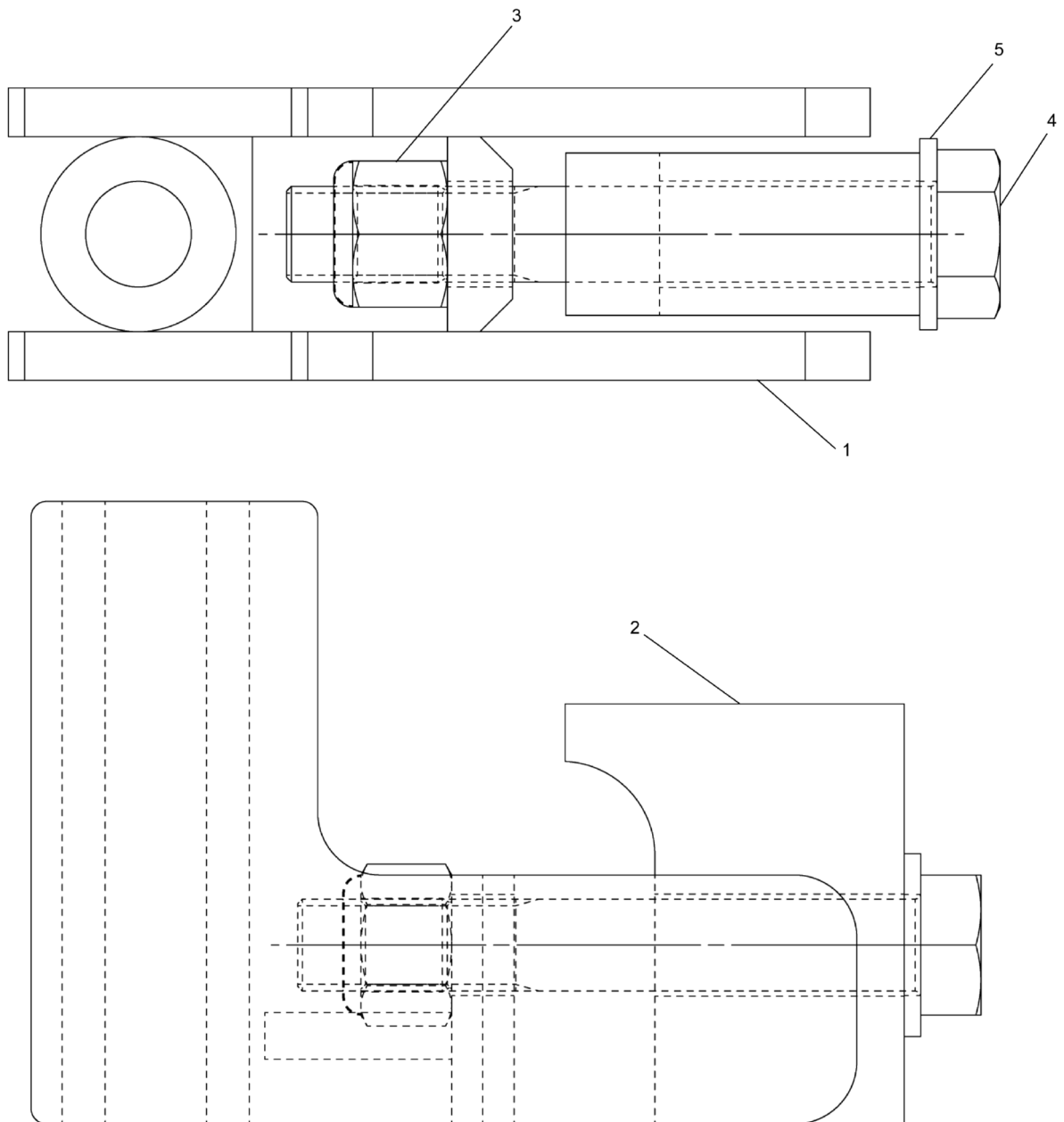
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

REF	PART NO.	DESCRIPTION	QTY
	520-00053-3 (Rev. B)	<i>Pump, Triple Eaton #ACD-LH</i>	
1	935-00119	Back Up Ring	1
2	935-00101*	Primary Shaft Seal	1
3	935-00033	Washer	1
4	935-00097	Shaft (297 Type)	1
5	935-00020	Bearing	1
6	935-00025	Ring	1
7	935-00034	Lockring	1
8	935-00119	Back Up Ring	1
9	935-00026*	O-Ring	1
10	935-00151	Seal Ring	1
11	935-00030*	O-Ring	1
12	935-00150	Outlet Plate	1
13	935-00149	Seal Pac.	4
14	935-00120	Flex Side Plate	2
15	935-00148	Ring	1
16	935-00044	Rotor	1
17	935-00056	Vane KiT	1
18	935-00146	Inlet Plate	1
19	935-00147	Pin	2
20	935-00145	Hex Head Screw	2
21	935-00041	Inlet Cover	1
22	935-00024	Bolt	4
23	935-00140	Screw.	2
24	935-00141	Pin	2
25	935-00142	Inlet Plate	1
26	935-00143	Seal Pac.	4
27	935-00121	Side Plate Kit	1
28	935-00139	Ring	1
29	935-00144	Vane Kit	1
30	935-00138	Rotor	1
31	935-00143	Seal Pac.	4
32	935-00117	Outlet Plate	1
33	935-00028*	O-Ring	1
34	935-00136	Seal Ring	1
35	935-00060*	O-Ring	1
36	935-00122	Back-Up Ring	1
37	935-00022	Bolt	4
38	935-00135	Rear Mounting Cover	1
39	935-00093*	O-Ring	2
40	935-00111	Wear Plate	1
41	935-00095	Pin	2
42	935-00110	Ring	1
43	935-00109	Vane Kit	1
44	935-00108	Rotor	1
45	935-00107	Pressure Plate	1
46	935-00106	Spring.	1
47	935-00093*	O-Ring	1
48	935-00100	V10 Cover Option	1
49	935-00088	Bolt	1

* 935-00091 REQUIRED FOR REPLACEMENT

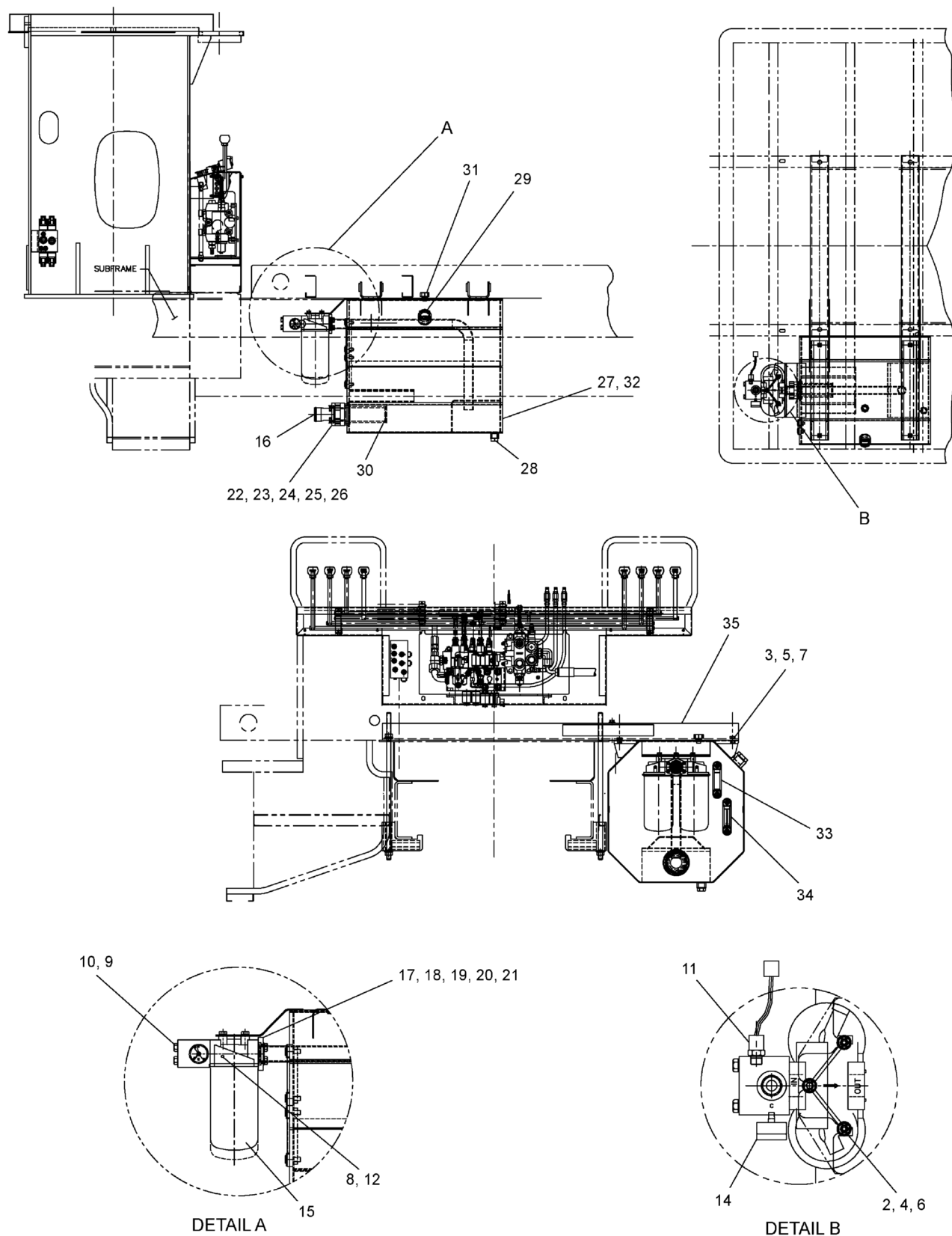
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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REF	PART NO.	DESCRIPTION	QTY
	701-00768 (Rev. C)	Mid-Mount Tiedown Assembly	
1	701-00767	Mid-Mount Weldment	1
2	701-00769	Clamp Plate, Mid-Mount	1
3	NYL-750C000-Y8	NUT, HEX NYL-INS 0.75-10, ST SQC G8	1
4	S01-750CE00-Y8	SCR, HHCS 0.75-10X5.00, ST SQC G8	1
5	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	876-00071 (Rev. B)	70 GAL Tank Installation	
1*	209-40010	HYD Oil, TEX Rando HD32	70
2	SHF-438C750-25	SCR, HHCS FT 0.438-14 X 0.75, ST SQC G5	3
3	SHF-500CA00-25	SCR, HHCS FT 0.50-13 X 1.00, ST SQC G5	4
4	222-00025-9	7/16" Flat Washer ZN	3
5	WAW-50WX000-20	WSH, FL TYP A-WID 0.50, ST SQC	4
6	W07-438X000-20	WSH, LCK, MED SPLT 0.4375, ST SQC	3
7	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
8	501-02015	Return Line Manifold/Filter ASSY	1
9	220-40065-61	HHCS, 1/2-13 NC X 4.00 GR5 Zinc	2
10	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2
11	400-04411	Switch, Temperature 210F Raising	1
12	501-02013	Filter Head	1
13*	519-90141	Manifold, Return	1
14	935-00113	Gauge, Pressure	1
15	501-02018	Filter Element	4
16	504-03516	Tube, Suction Hose	1
17	505-03003	Kit, Split Flange 1-1/2 W/HDWR.	1
18	S01-500CA50-25	SCR, HHCS 0.50-13 X 1.50, ST SQC G5	4
19	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
20	260-30004	O-Ring Parker #224	1
21	505-03004	Split Flange Half, 1 1/2"	2
22	505-05002	Kit, Split Flange, C61-32 (see page 166)	1
23	220-40005	HHCS, 1/2-13 NC X 1.50 GR5 ZINC	4
24	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
25	260-40005	O-Ring	1
26	505-05003	Split Flange Half, 2"	2
27	875-90348	ASSY Hydraulic Reservoir 70 GAL. (see page 167)	1
28	517-30004	Plug, SOC HD 3/4 ORB	1
29	517-30015	Plug, Hollow HEX -20 ORB	1
30	875-90360	Strainer, Suction	1
31	875-90362	Breather Cap, 1/2 NPT	1
32	875-90367	Reservoir Weldment	1
33	875-90395	Sight Gauge, Oil Level	1
34	875-90396	Sight Gauge, Oil Levelw/Temp	1
35	875-90370	U-Bracket, Weld Tank Mounting	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC RESERVOIR INSTALLATION (70 GAL)

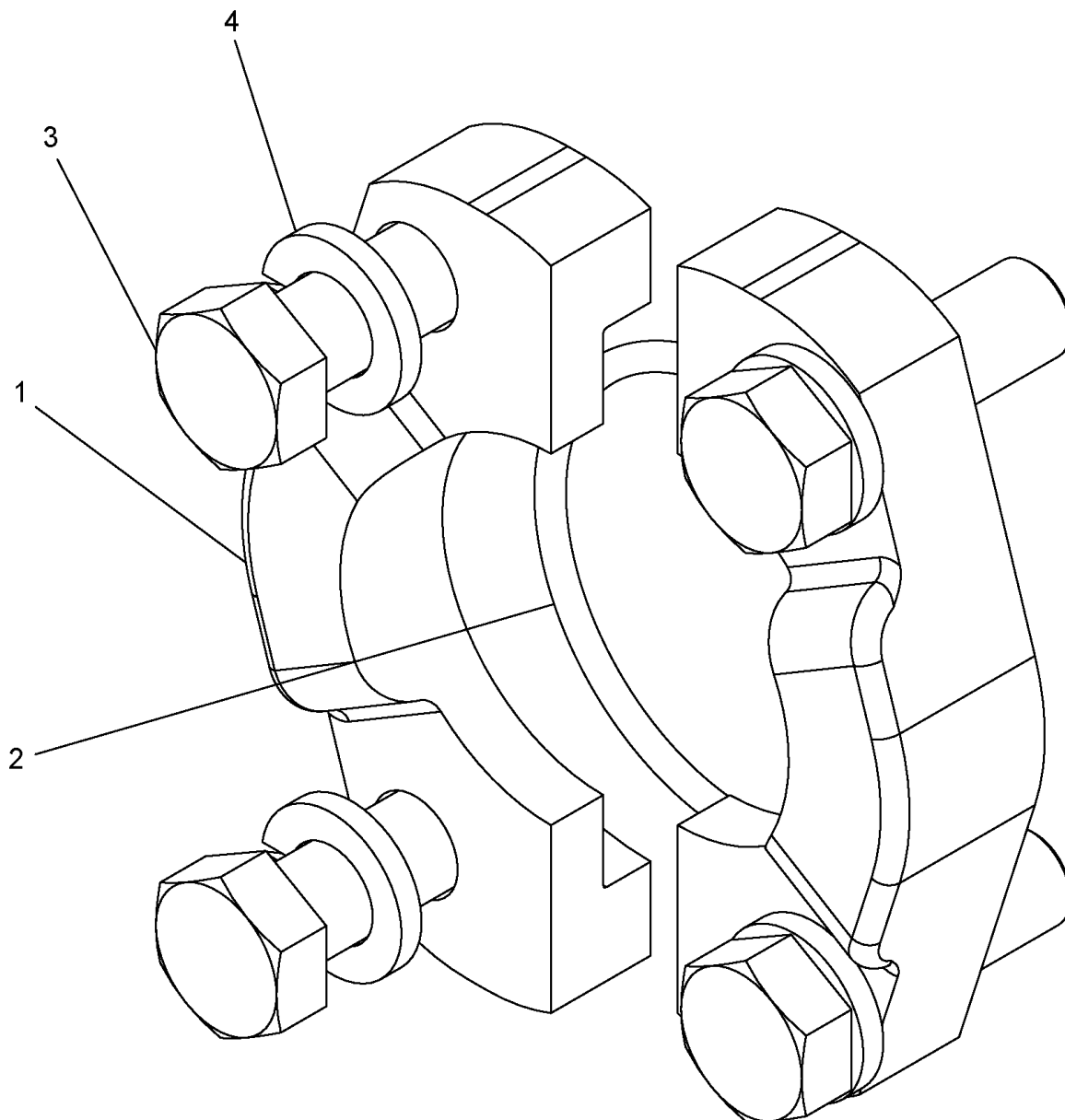
DATE: Revised 04-2018

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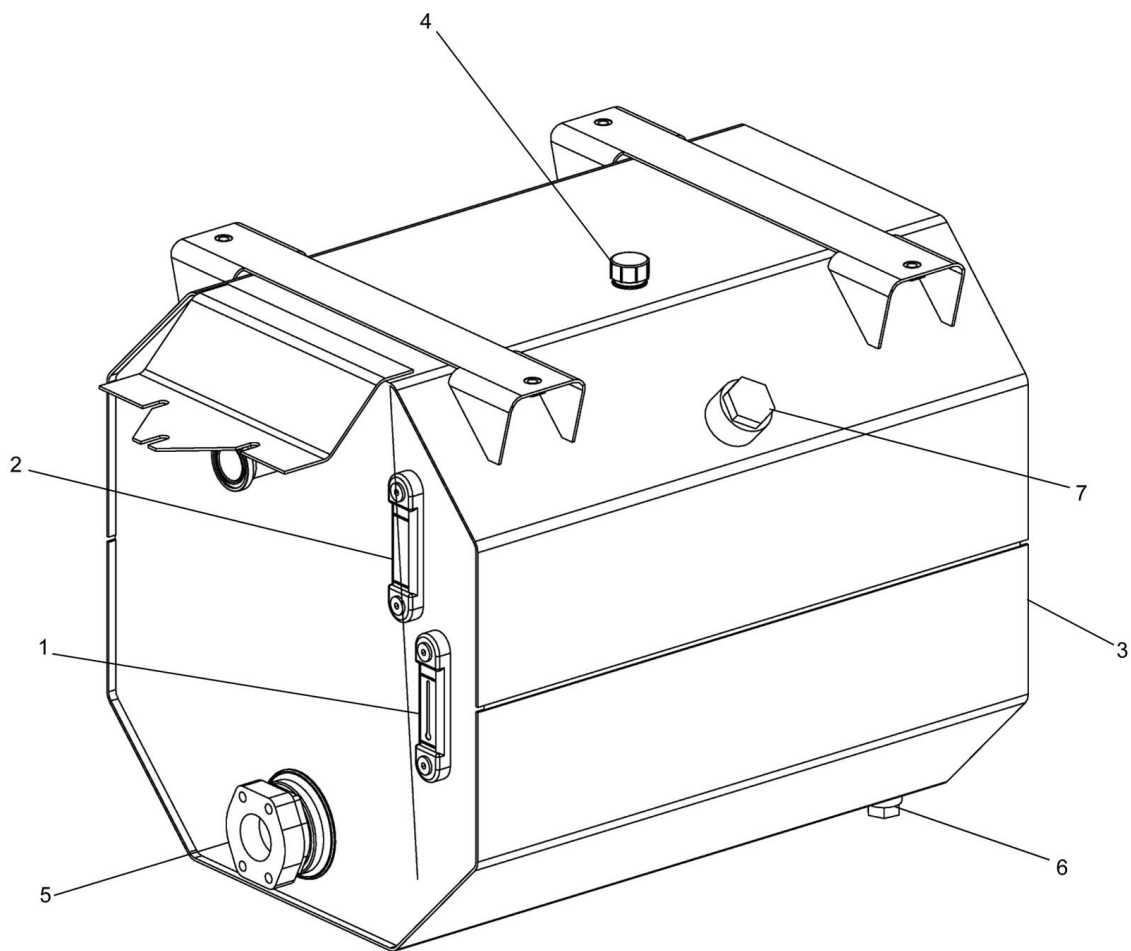
CHAPTER

1



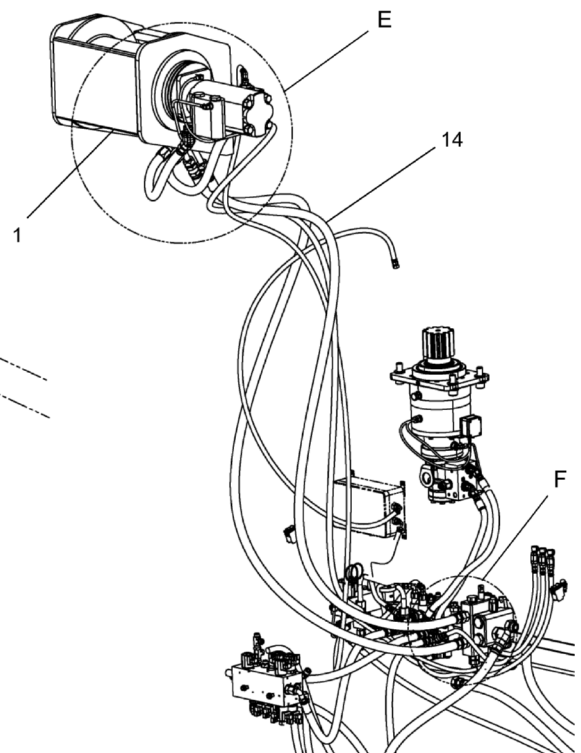
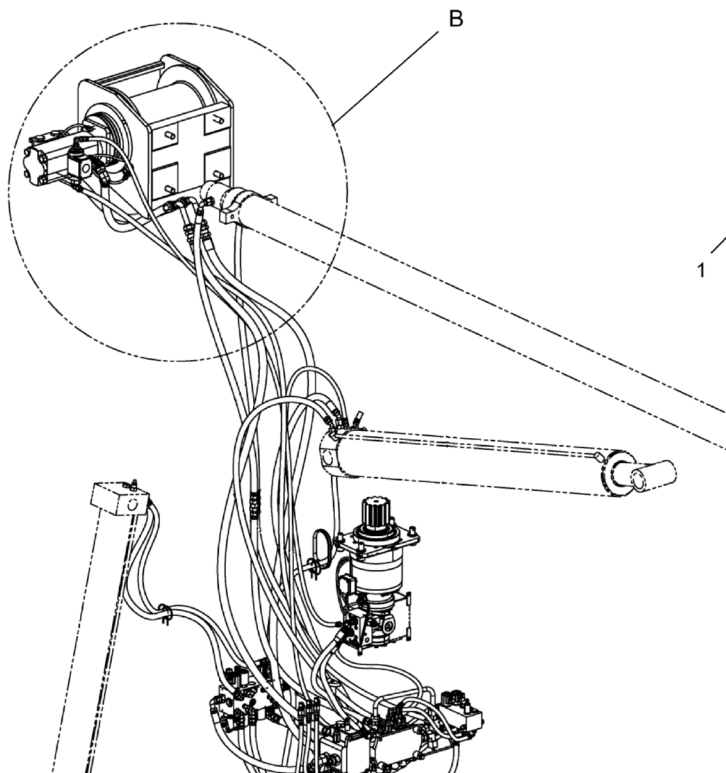
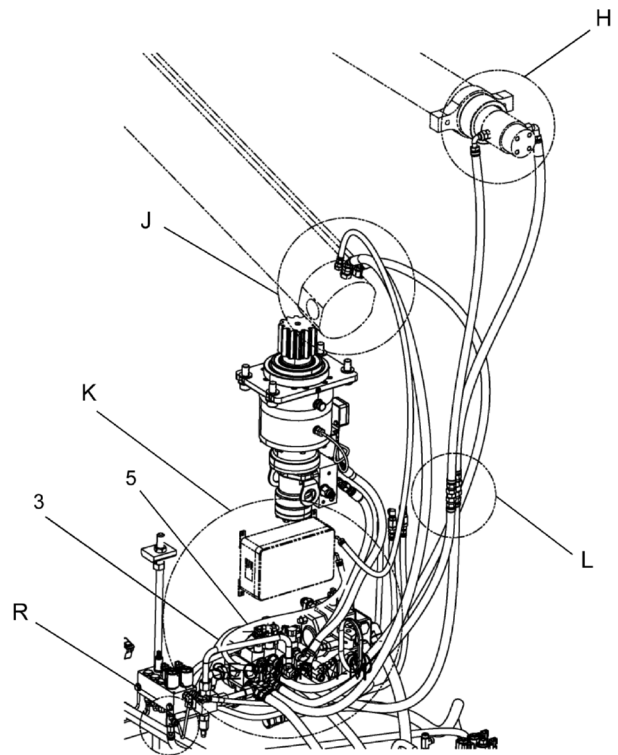
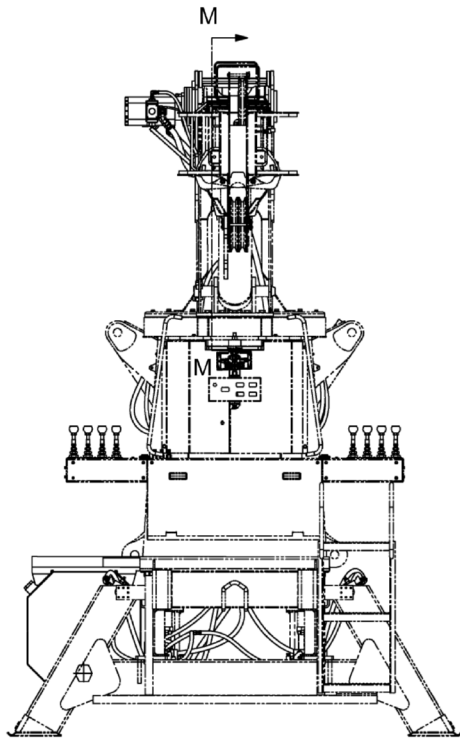
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	505-05002 (Rev. A)	<i>Kit, Split Flange, C61-32</i>	
1	505-05003	Split Flange Half, 2"	2
2	260-40005	O-Ring	1
3	SHF-500CA50-25	SCR, HHCS FT 0.50-13 X 1.50, ST SQC G5	4
4	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	875-90348 (Rev. A)	ASSY Hydraulic Reservoir 70 GAL.	
1	875-90396	Sight Gauge, Oil Levelw/Temp	1
2	875-90395	Sight Gauge, Oil Level	1
3	875-90367	Reservoir Weldment	1
4	875-90362	Breather Cap, 1/2 NPT	1
5	875-90360	Strainer, Suction	1
6	517-30004	Plug, SOC HD 3/4 ORB	1
7	517-00013	Plug, HEXHD	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - MOTOR SHIFT (2 SPEED)

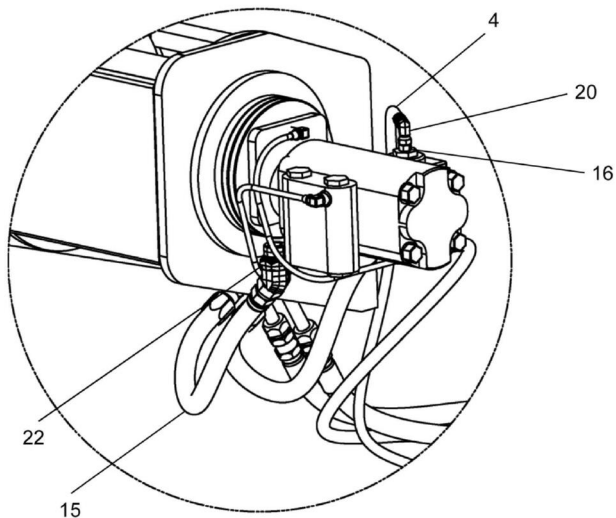
DATE: Revised 06-2016

MODEL: 19-70

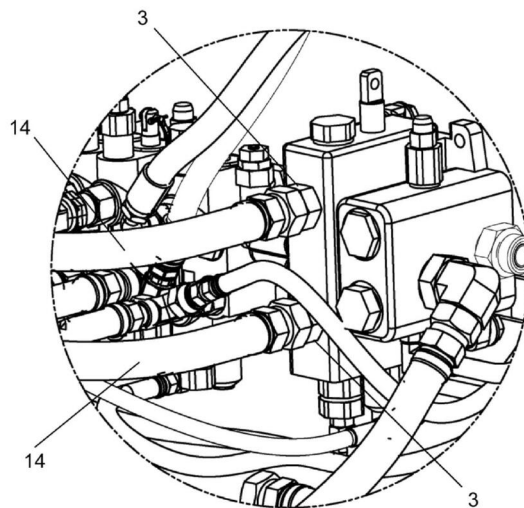
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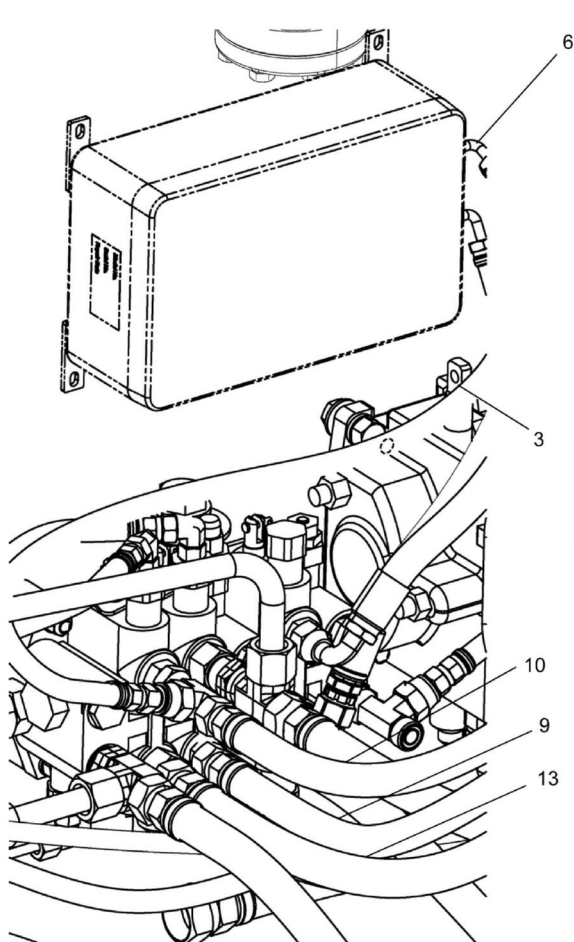
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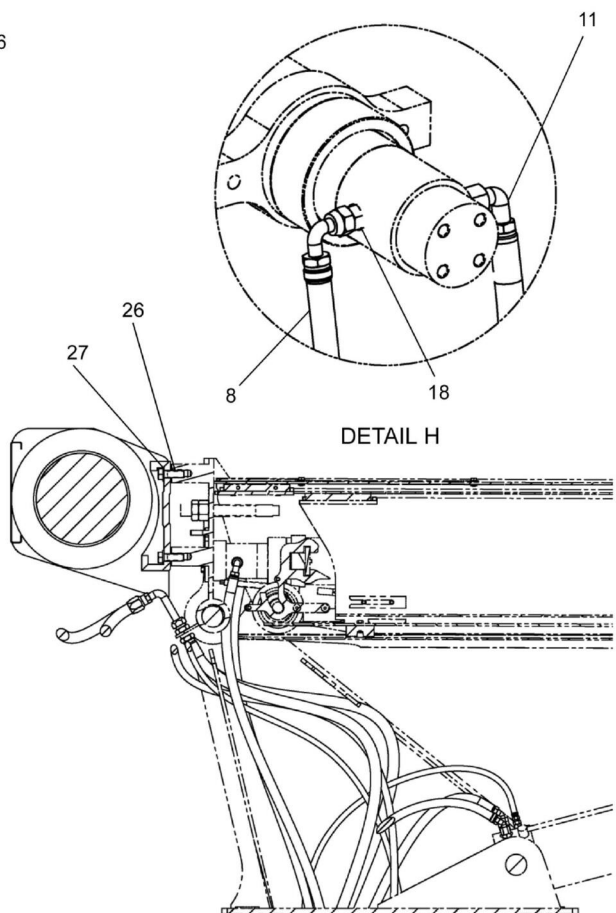
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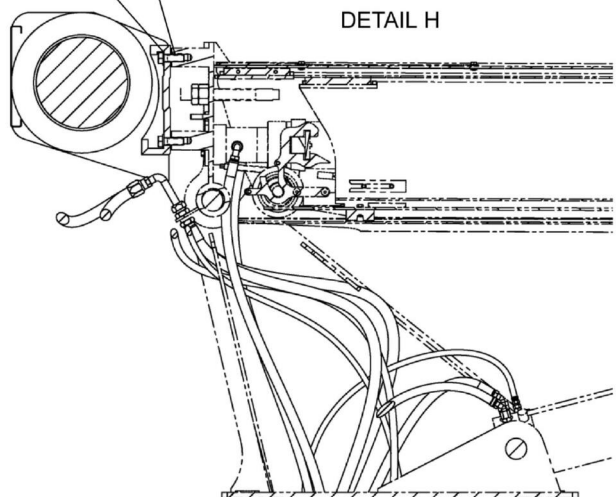
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DETAIL K



DETAIL H



SECTION M-M

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - MOTOR SHIFT (2 SPEED)

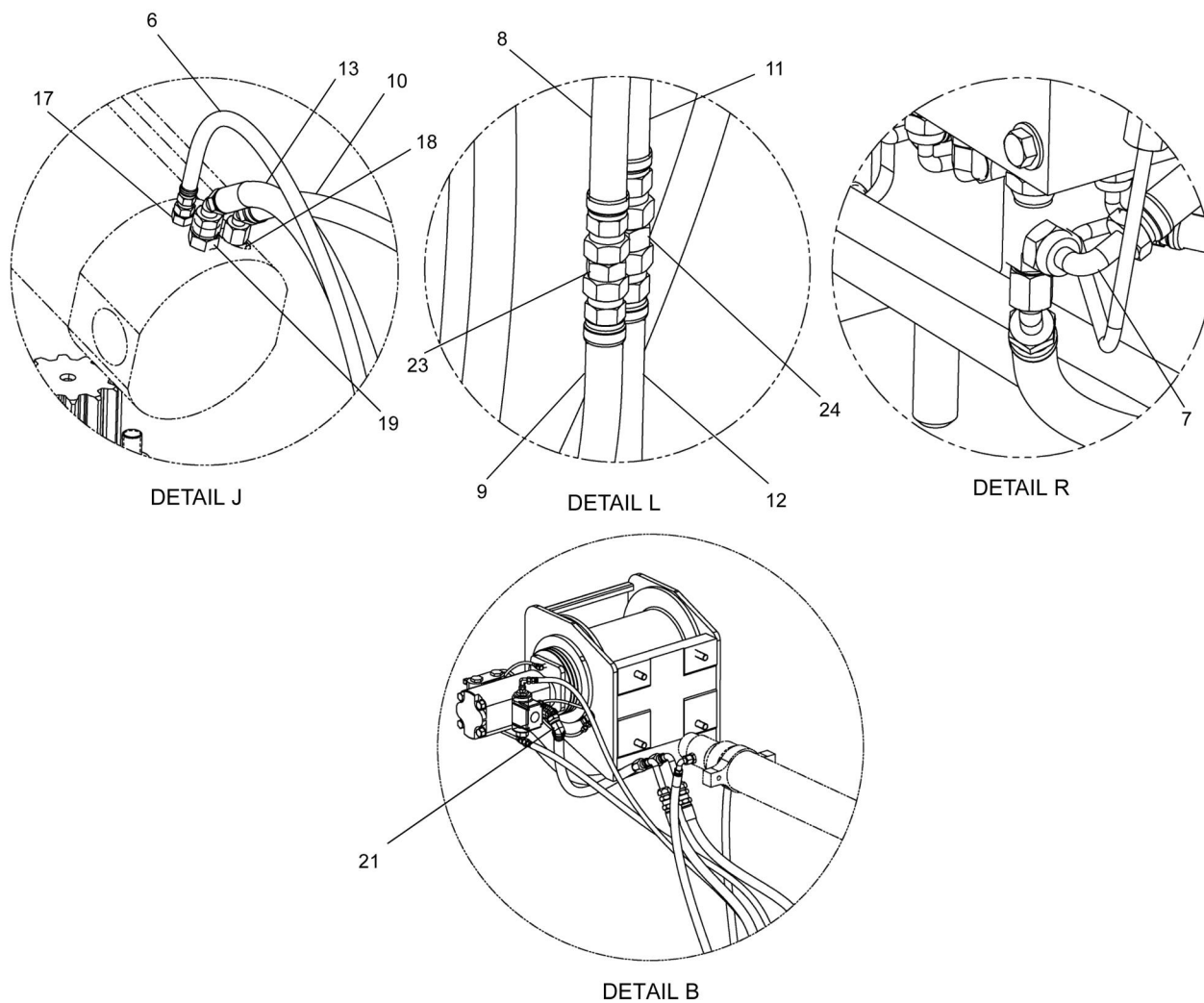
DATE: Revised 06-2016

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - MOTOR SHIFT (2 SPEED)

DATE: Revised 06-2016

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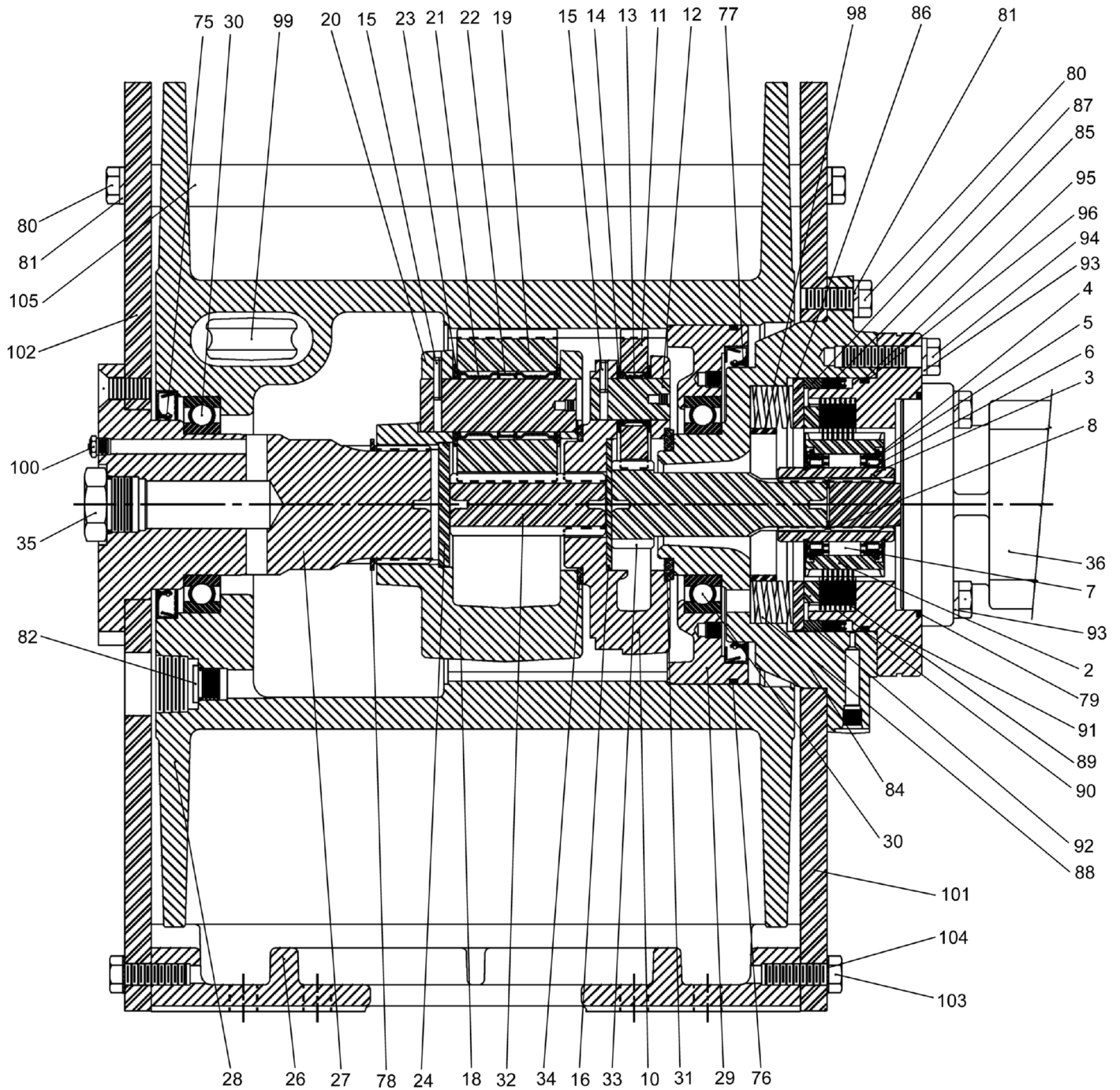
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REF	PART NO.	DESCRIPTION	QTY
	500-01833-02 (Rev. C)	HYD INSTL, 19-70, NON CON - MS	
1	293-00044-2.2	Winch ASSY, 12K 2 Speed (see page 172)	1
2*	400-15086	Tie, Nylon CBL, 1.75 DIA	1
3	500-01839-02	HYD INSTL, Main O/R Non Continuous Motor Shift (see page 182)	1
4	502-11346	502-11346-Hose ASSY, 2SP Pilot	1
5	502-11350	Hose, Hydraulic, RCI	1
6	502-11351	Hose, HYD RCI Topping Rod Base	1
7	502-21026	502-21026-Winch Drain, MS, NC	1
8	502-30783	Hose ASSY, Tele Retract - Upper	1
9	502-30784	Hose ASSY, TELE Retract-Lower	1
10	502-30787	Hose, Boom Topping Retract	1
11	502-35084	Hose ASSY, Tele Extend - Upper	1
12	502-35085	Hose ASSY, TELE Extend-Lower	1
13	502-35087	Hose, Boom Topping Extend	1
14	502-41014	Hose ASSY, Winch	2
15	502-41015	Hose ASSY, Winch, Short	2
16	513-20017	Adapter, MOFS-4/MORB-4	1
17	513-20019	Adapter, MOFS-4/MORB-6	1
18	513-50023	Adapter, MOFS-8/MORB-8	2
19	513-60008	Adapter, MOFS-10/MORB-10	2
20	514-62002	Elbow, 90, MOFS-4/FOFS-4SW	1
21	514-67004	Elbow Swivel 90°	1
22	515-07003	Elbow 45°	2
23	519-50024	Union Fitting, STR M08 OFS	1
24	519-60017	Union Fitting, STR M10 OFS	1
25*	695-10020	Structural Assembly, 19-70 (see page 61)	1
26	S01-750CB25-Y8	SCR, HHCS 0.75-10X2.25, ST YZ GR8	4
27	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYDRAULIC INSTL NON CONTINUOUS - MOTOR SHIFT (2 SPEED)	DATE: Revised 06-2016	CHAPTER 1
		MODEL: 19-70	
		PAGE: 171	



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSEMBLY 12K & 2 SPEED (BRADEN)

DATE: Released 12-2013

MODEL: 19-70

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REF	PART NO.	DESCRIPTION	QTY
	293-00044-2.2 (Rev. 00)	Winch ASSY, 12K 2 Speed	
1*	215553	Sprag Clutch ASSY (C SPL SHAF) (see page 175)	1
2	215461	Outer Brake Race	1
3	224376	Inner Brake Race	1
4	215723	Sprag Bearing	2
5	215557	Thrust Bearing	2
6	215725	21-B3-1 Snap Ring	2
7	215466	Sprag Clutch	1
8	215560	Retaining Ring	1
9*	224984	Primary Planet Carrier ASSY	1
10	224979	Primary Planet Carrier	1
11	224968	Planet Gear	3
12	215427	Primary Planet Gear Shaft	3
13	215428	Roller Bearing	3
14	215429	Thrust Washer	6
15	215430	SPIROL Pin	3
16	215451	Spacer, Primary	1
17*	224985	Output Planet Carrier ASSY	1
18	224969	Output Planet Carrier	1
19	224970	Planet Gear	3
20	215433	Planet Gear Shaft	3
21	215434	Roller Bearing	6
22	215435	Bearing Spacer	3
23	215436	Thrust Washer	6
24	215474	Spacer, Output	1
25*	218982	Pin-SPIROL	3
26	226860	Base	1
27	224971	Bearing Support, SP Only	1
28	224972	Cable Drum	1
29	224973	Cable Drum Closure	1
30	215440	Ball Bearing	2
31	215445	Thrust Washer	1
32	224975	Output Sun Gear	1
33	224976	Primary Sun Gear	1
34	215455	Thrust Washer	1
35	224978	Plug	1
36	225005	HYD Motor SUB ASSY (2SP 4.9/2) (see page 176)	1
75	215441	Oil Seal	1
76	224974	O-Ring	1
77	215443	Seal-Oil	1
78	215444	Retaining Ring, External	1
79	215465	O-Ring	1
80	220135	Capscrew	20
81	215470	Lockwasher	12
82	215457	16496-8 Plug, O-Ring Flush	1
83*	224377	Brake CYL ASSY - 4 Bolt C (see page 180)	1
84	215418	Brake Cylinder	1
85	215419	Seal	1
86	215420	Pressure Plate	1
87	215421	Piston Backup Ring	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSEMBLY 12K & 2 SPEED (BRADEN)

DATE: Released 12-2013

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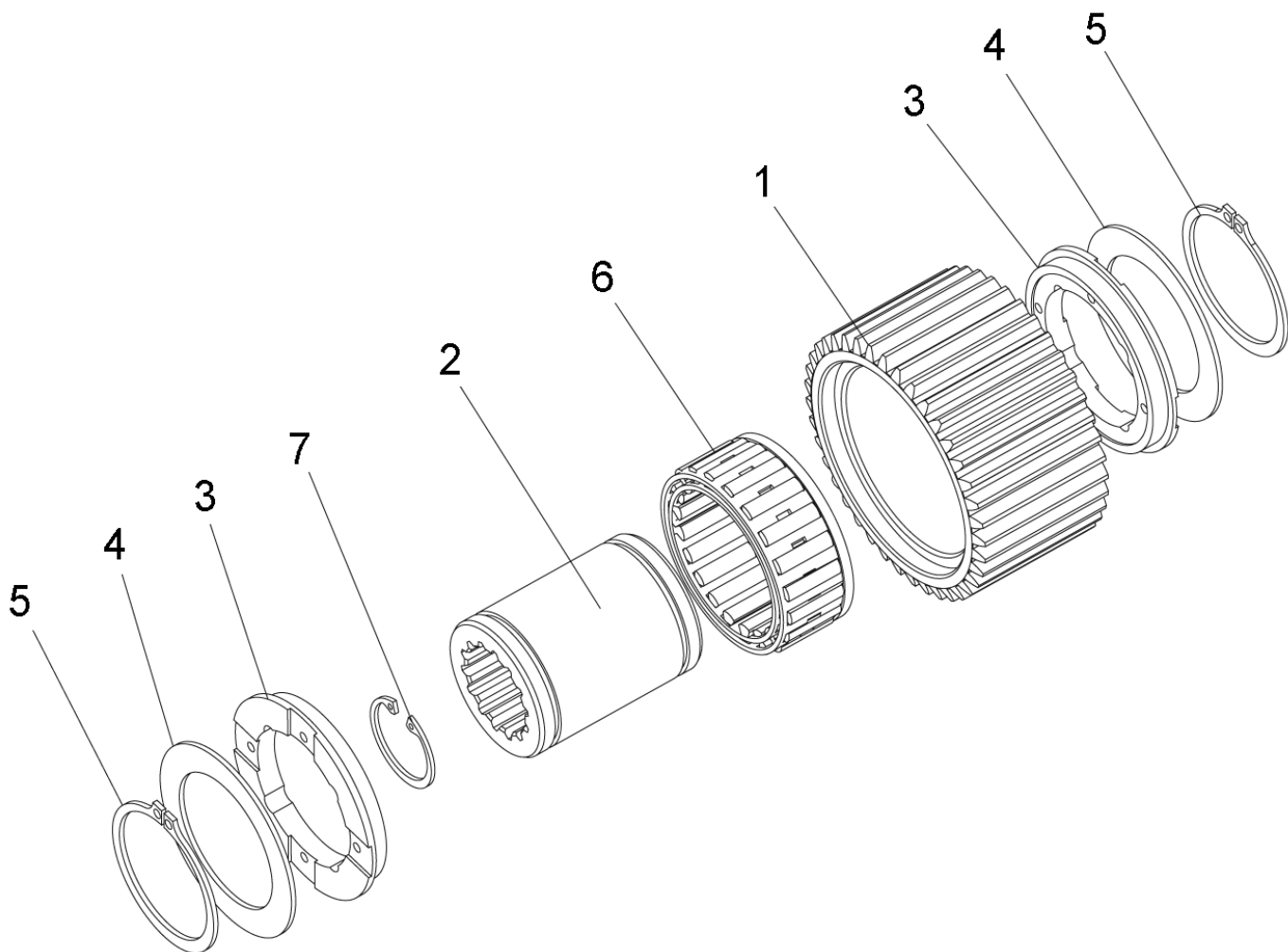
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	293-00044-2.2 (Rev. 00)	<i>Winch ASSY, 12K 2 Speed</i>	
88	215422	Die Spring	12
89	215423	850170 Disc-Friction	7
90	215424	Brake Disc	8
91	224378	Motor Support	1
92	215450	Spacer	1
93	215470	Lockwasher	4
94	224379	Capscrew	4
95	215459	O-Ring	1
96	215460	Back-up Ring	1
97*	215468	Shipping Plug HYD	1
98	218782	Spring Spacer	1
99	215473	Cable Wedge	1
100	215458	Relief Valve 7.5-15 PSI	1
101	224981	Sideplate Motor End	1
102	224980	Sideplate Support End	1
103	219424	Capscrew	16
104	224982	Lockwasher KEV *1.	24
105	224977	Spacer	2
106*	224983	Cover, Back PD12C	1
107*	215495	Pipe Plug	1
108*	218656	Name Plate, GH5, PD5 Winches	1
109*	218655	Drive Screw	4

* ITEM NOT SHOWN IN ILLUSTRATION

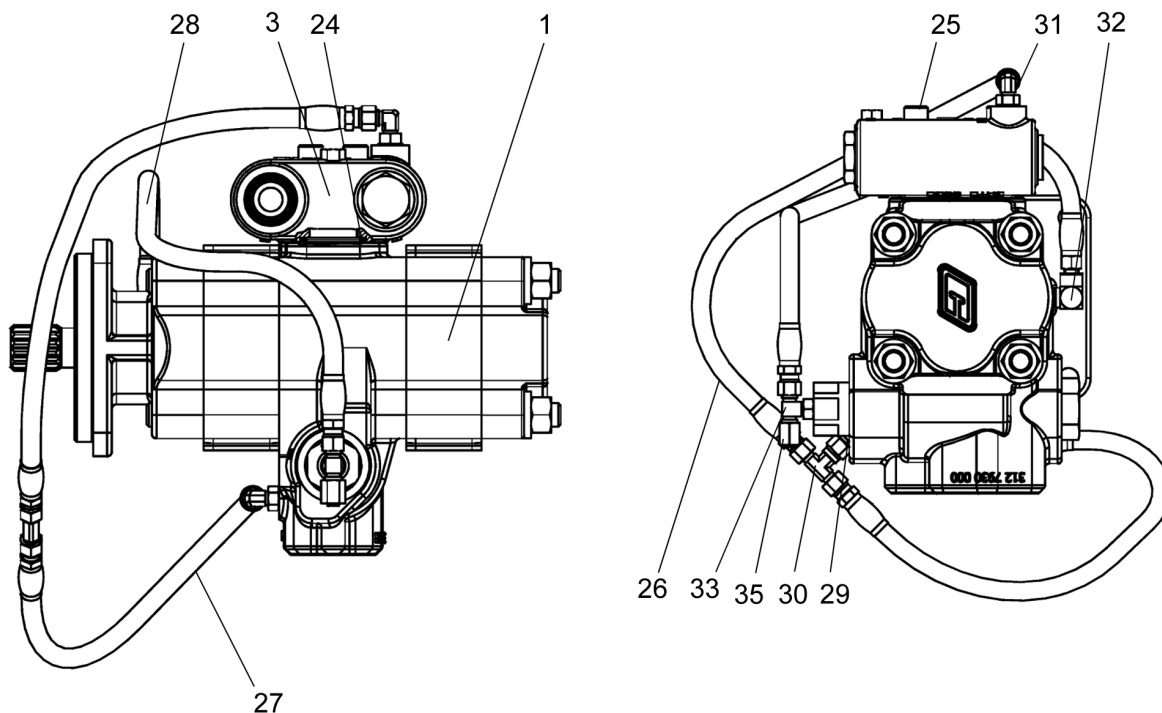
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	WINCH ASSEMBLY 12K & 2 SPEED (BRADEN)	DATE: Released 12-2013	CHAPTER 1
		MODEL: 19-70	
		PAGE: 174	



REF	PART NO.	DESCRIPTION	QTY
	215553 (Rev. 00)	<i>Sprag Clutch ASSY (C SPL SHAF)</i>	
1	229170	Outer Brake Race	1
2	224376	Inner Brake Race	1
3	215723	Sprag Bearing	2
4	215557	Thrust Bearing	2
5	215725	21-B3-1 Snap Ring	2
6	215466	Sprag Clutch	1
7	215560	Retaining Ring	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



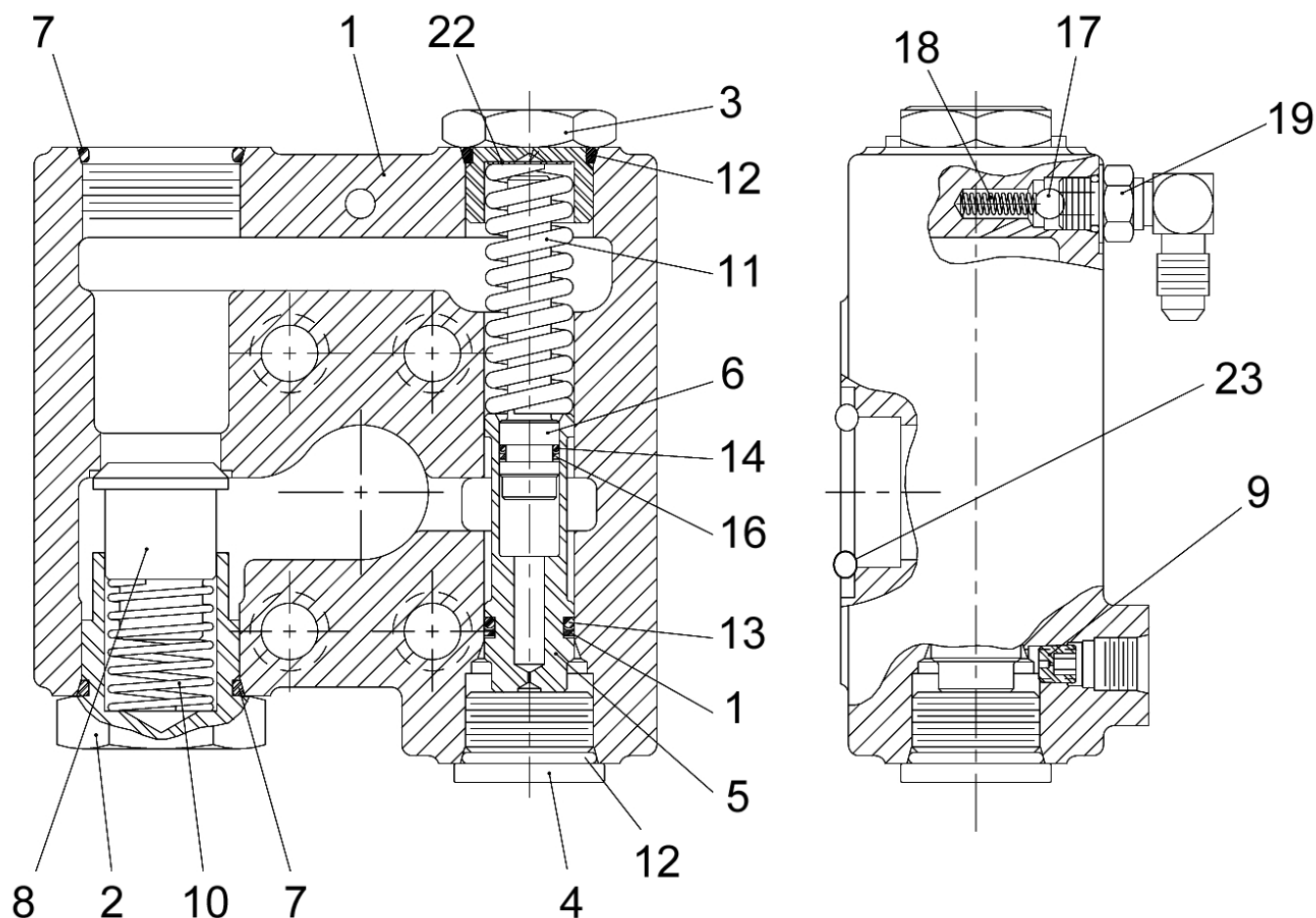
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

REF	PART NO.	DESCRIPTION	QTY
	225005 (Rev. 00)	HYD Motor SUB ASSY (2SP 4.9/2)	
1	225008	HYD Motor, Gear	1
2*	225012	Seal Kit	1
3	224999	Brake Valve ASSY - 1.25-61 (see page 178)	1
4*	224997	Brake Valve Housing	1
5*	215481	Spool	1
6*	215482	Damper Piston	1
7*	215486	Check Valve Spring	1
8*	224998	Valve Spring Retainer	1
9*	215479	Spring Retainer	1
10*	215480	Plug	1
11*	215483	O-Ring	2
12*	225000	Check Valve Poppet	1
13*	215485	Pilot Orifice	1
14*	215487	Spool Spring	1
15*	215488	O-Ring	1
16*	215489	O-Ring	1
17*	215490	O-Ring	1
18*	215491	Back-up Ring	1
19*	215492	Back-up Ring	1
20*	215468	Shipping Plug HYD	1
21*	225001	Shipping Plug	1
22*	225002	Shim, Valve Spring	2
23*	225003	HEX Head Plug (-4SAE)	1
24	219465	O-Ring	1
25	215524	Capscrew	4
26	219757	Hose ASSY	1
27	218757	Hose ASSY	1
28	225007	Hose ASSY	1
29	215527	Adapter	1
30	218755	Swivel Tee	1
31	215526	Elbow Fitting	2
32	225006	Reducer Elbow	1
33	225009	Tee, -4 ORB.	1
34*	225010	Warning Tag	1
35	225011	16445-4 Cap Nut	1
36*	225003	HEX Head Plug (-4SAE)	1
37*	225001	Shipping Plug	1
38*	215483	O-Ring	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYDRAULIC MOTOR SUB-ASSEMBLY	DATE: Released 12-2013	CHAPTER 1
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		PAGE: 177	



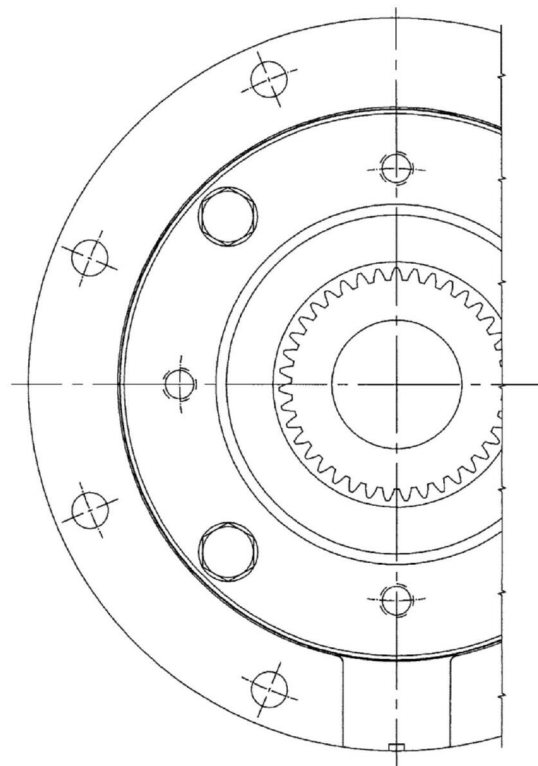
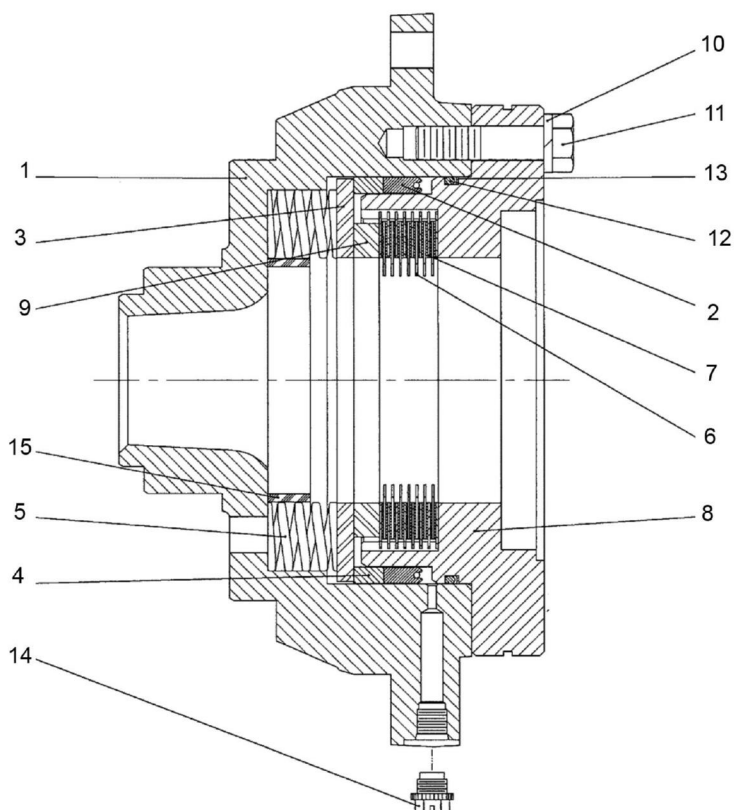
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	224999 (Rev. 00)	<i>Brake Valve ASSY - 1.25-61</i>	
1	224997	Brake Valve Housing	1
2	224998	Valve Spring Retainer	1
3	215479	Spring Retainer	1
4	215480	Plug	1
5	215481	Spool	1
6	215482	Damper Piston	1
7	215483	O-Ring	2
8	225000	Check Valve Poppet	1
9	215485	Pilot Orifice	1
10	215486	Check Valve Spring	1
11	215487	Spool Spring	1
12	215488	O-Ring	1
13	215489	O-Ring	1
14	215490	O-Ring	1
15*	215491	Back-up Ring	1
16	215492	Back-up Ring	1
17	230158	Ball, Steel	1
18	230159	Compression Spring	1
19	225003	HEX Head Plug (-4SAE)	1
20*	215468	Shipping Plug HYD	1
21*	225001	Shipping Plug	1
22	225002	Shim, Valve Spring	1.5
23	219465	O-Ring	1

* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	BRAKE VALVE ASSEMBLY	DATE: Released 05-2018	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



BRAKE CYLINDER ASSEMBLY

DATE: Released 05-2018

MODEL: 19-70

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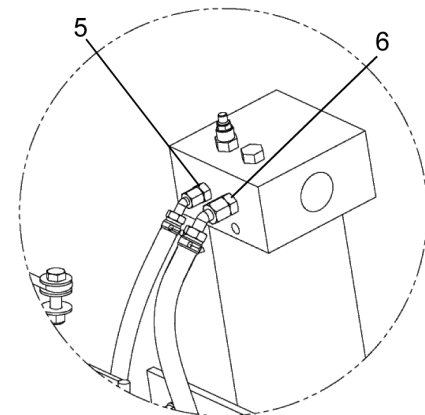
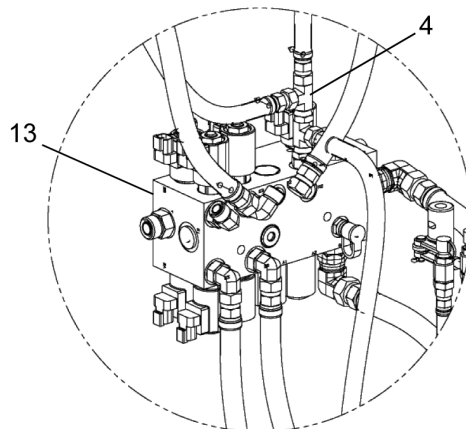
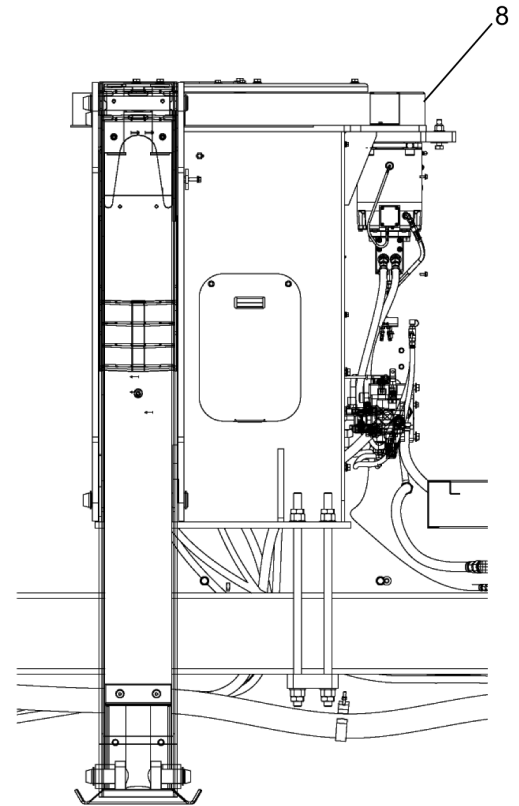
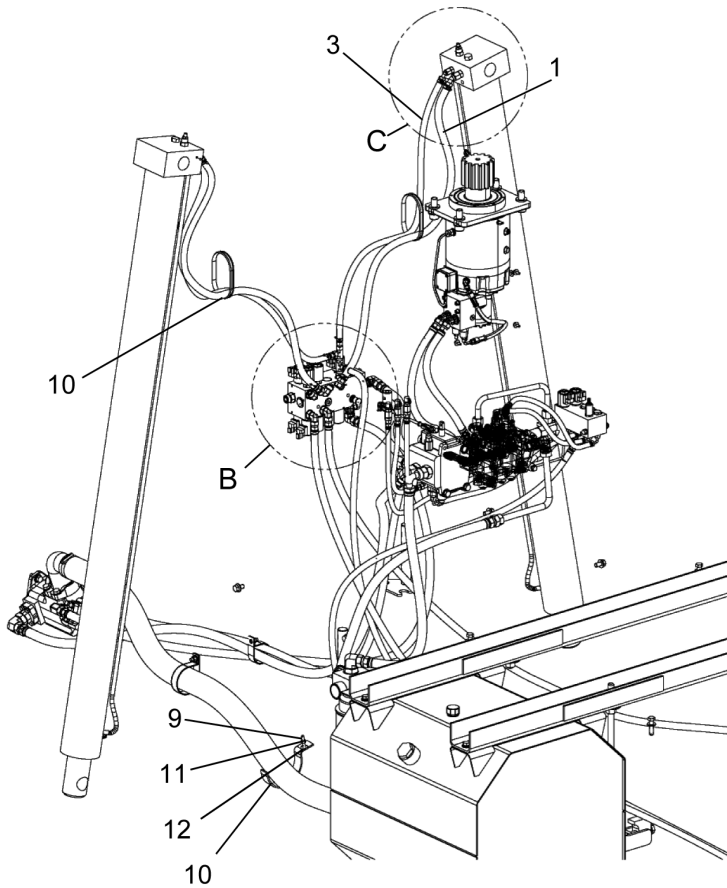
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	224377 (Rev. 00)	<i>Brake CYL ASSY - 4 Bolt C</i>	
1	215418	Brake Cylinder	1
2	215419	Seal	1
3	215420	Pressure Plate	1
4	215421	Piston Backup Ring	1
5	215422	Die Spring	12
6	215423	850170 Disc-Friction	7
7	215424	Brake Disc	8
8	224378	Motor Support	1
9	215450	Spacer	1
10	215470	Lockwasher	4
11	224379	Capscrew	4
12	215459	O-Ring	1
13	215460	Back-up Ring	1
14	215468	Shipping Plug HYD	1
15	218782	Spring Spacer	1

* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	BRAKE CYLINDER ASSEMBLY	DATE: Released 05-2018	CHAPTER 1
		MODEL: 19-70	
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN O/R NON CONTINUOUS - COMBINED FLOW / MOTOR SHIFT

DATE: Released 12-2013

MODEL: 19-70

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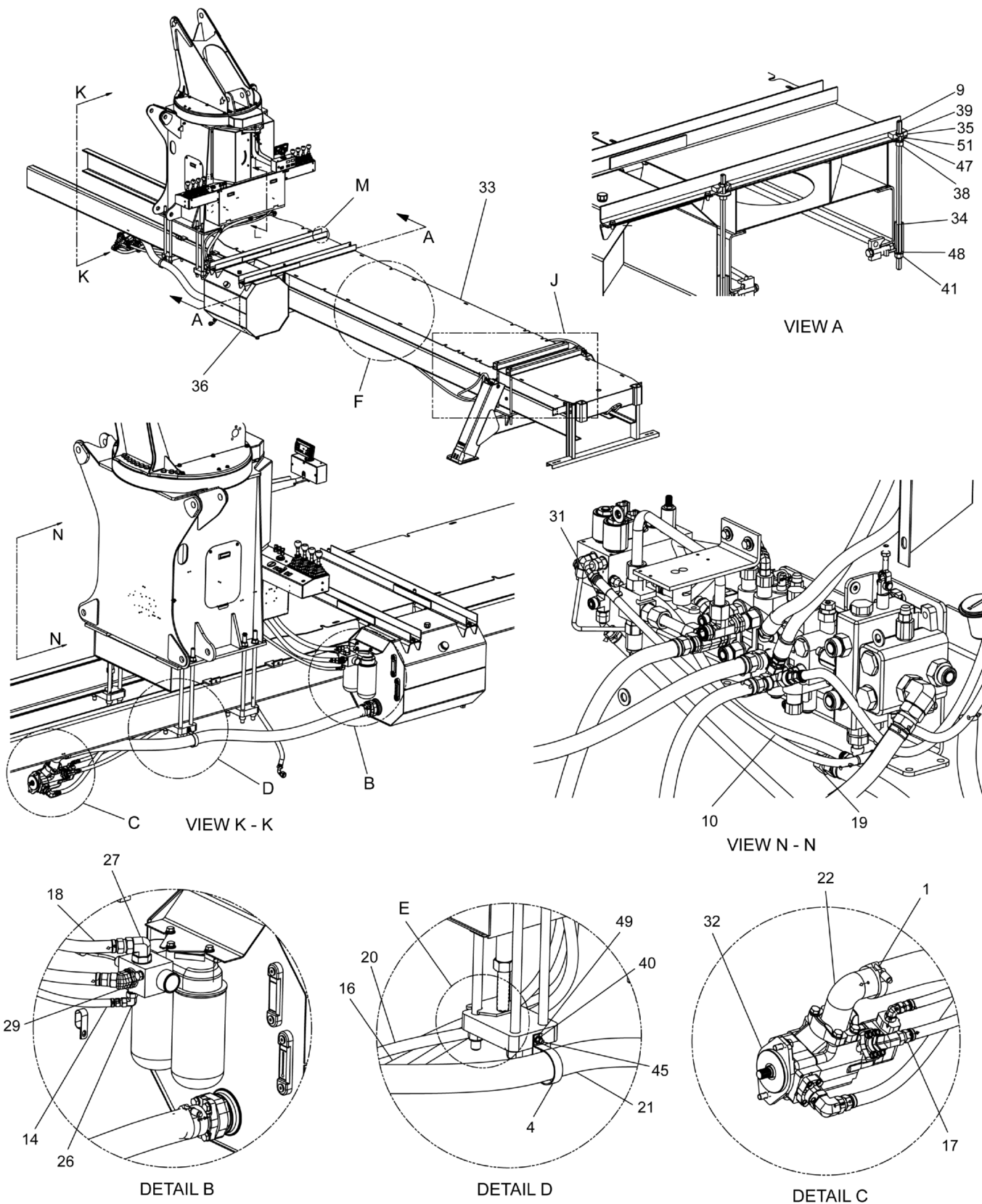
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01839-02 (Rev. B)	HYD INSTL, Main O/R Non Continuous Motor Shift	
1	502-30788	Hose, Main Outrigger Extend	2
2*	400-15086	Tie, Nylon CBL, 1.75 DIA	4
3	502-21024	Hose, Main Outrigger Retract	2
4	516-84003	Tee, MOFS-6/FOFS-6SW/MOFS-6	1
5	513-40014	Adapter, MOFS-6/MORB-6	2
6	513-50023	Adapter, MOFS-8/MORB-8	2
8	695-10019	Truck Attach Main Assembly (see page 66)	Ref
9	S01-312CA75-25	SCR, HHCS 0.3125 -18X1.75, ST Z G5	1
10	201-00119	Clamp, Hose, 2.625 DIA	1
11	NYL-312C000-25	Nut, HEX NYL-INS 0.312-18, ST SQC G5	1
12	WAW -31WX000-20	WSH, FL TYP A -W ID 0.3125, ST Z	1
13	500-01838-02	HYD INSTL, SUBFRM-MAINFRM (see page 184)	1

* ITEM IS NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYDRAULIC INSTL, MAIN O/R NON CONTINUOUS - COMBINED FLOW / MOTOR SHIFT	DATE: Released 12-2013	CHAPTER 1
		MODEL: 19-70	
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

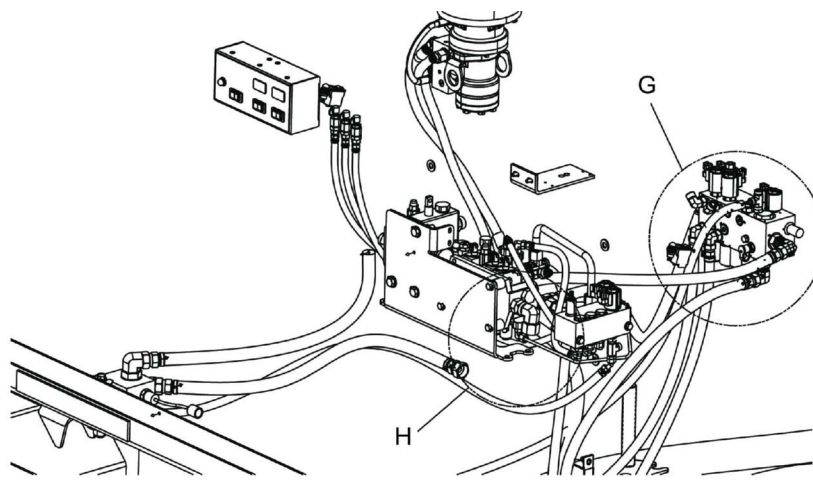
DATE: Revised 04-2018

MODEL: 19-70

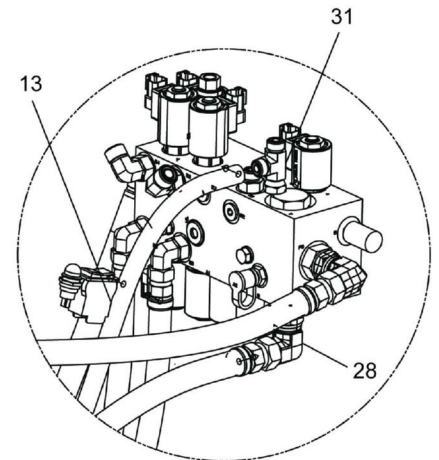
PAGE: 184

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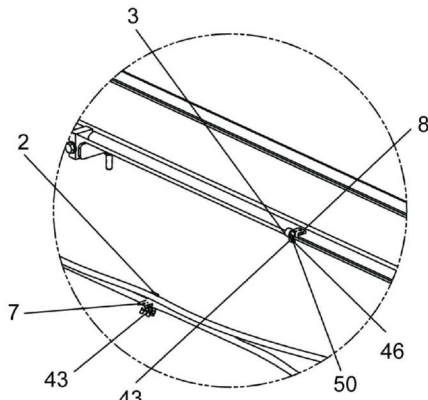
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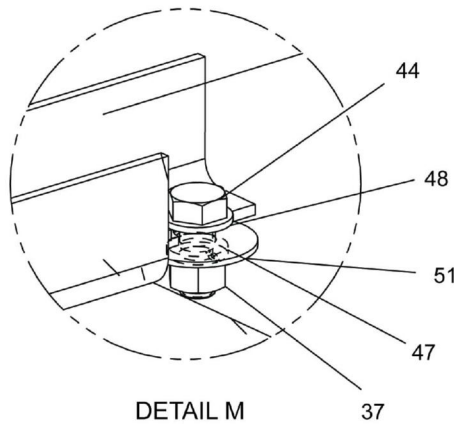
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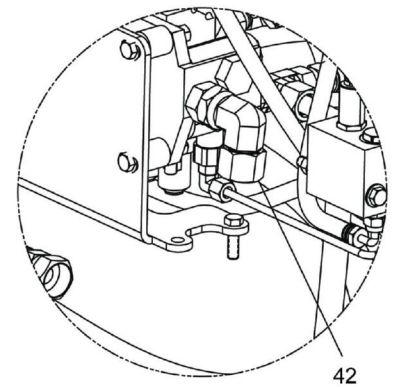
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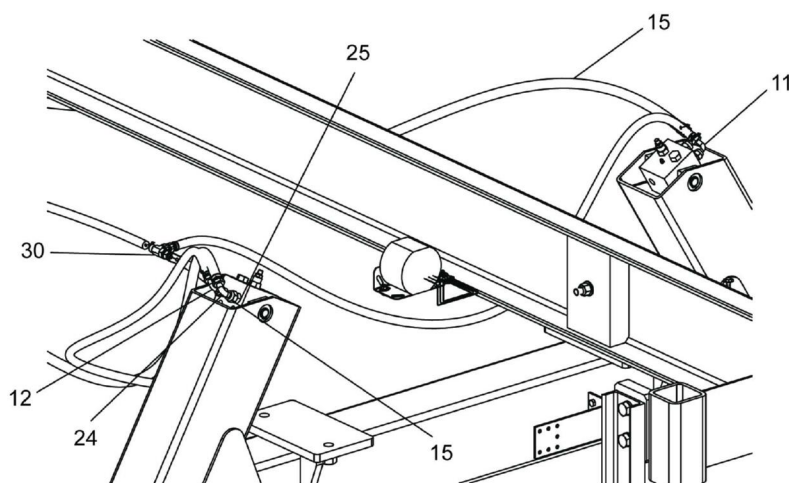
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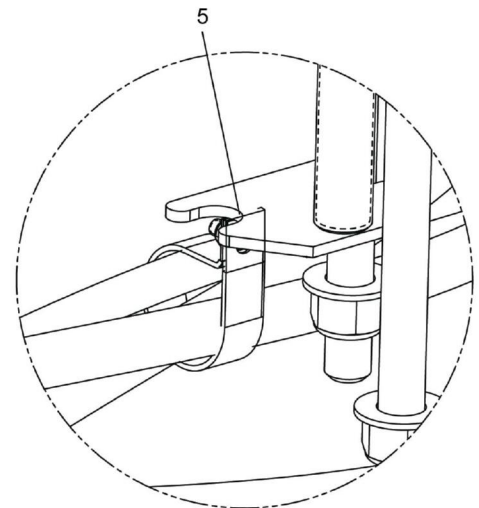
DETAIL M



DETAIL H



DETAIL J



DETAIL E

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

DATE: Revised 04-2018

MODEL: 19-70

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1

REF	PART NO.	DESCRIPTION	QTY
	500-01838-02 (Rev. G)	HYD INSTL, SUBFRM-MAINFRM	
1	1240-101	Clamp, T-Bolt, SAE 60	2
2	200B2007-67	Clamp, Double, MED, 0.88 ID	2
3	200B2007-7	Clamp 7/8 DIA With .41 Hole	1
4	201-00257	Clamp, 3.50 DIA	1
5	201-00258	Clamp, 2.50 DIA	1
6*	209-00804	Hose Protector (HP8-B)	1
7	209-00879	Frame Clip Caddy, DBLE	2
8	209-00880	Frame Clip Caddy, SNGL	1
9	220-07056	Tie Rod	2
10	500-01837-02	HYD INSTL, MNFRM-Console (see page 188)	1
11	502-21016	Hose, AUX Outtrigger SS RET	1
12	502-21017	Hose, AUX OUTRIG CS RET	1
13	502-21018	Hose, Front Outtrigger	1
14	502-21025	Hose, LMI Return	1
15	502-30770	Hose, AUX Outtrigger Extend	2
16	502-30782	Hose, Pump to Main Valve	1
17	502-35089	Hose, Pump-OR Valve	1
18	502-41017	Hose, Winch Return	1
19	502-41018	Hose, Main Valve Return	1
20	502-41019	Hose, Pump-Winch Valve	1
21	503-06008	Hose, Pump Inlet	1
22	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1
23*	510-70844	Tube, Main Valve Return	1
24	513-40014	Adapter, MOFS-6/MORB-6	2
25	513-50023	Adapter, MOFS-8/MORB-8	2
26	514-55020	Elbow, 90, MOFS-6/MORB-8	1
27	514-59023	Elbow, 90, MOFS-12/MORB-16	1
28	514-66004	Elbow, 90, MOFS-10/FOFS-10SW	1
29	515-07003	Elbow 45°	1
30	516-44002	Tee, MOFS-6/MOFS-6/MOFS-6	1
31	516-84003	Tee, MOFS-6/FOFS-6SW/MOFS-6	2
32	521-00084-3	Pump Installation (see page 149)	1
33	695-10018	Subframe-Mainframe ASSY (see page 69)	REF
34	701-00768	Mid-Mount Tiedown Assembly (see page 163)	2
35	789-05852	Tap Block	2
36	876-00071	70 GAL Tank Installation (see page 164)	1
37	N04-750C000-Y8	Nut, HEX 0.75-10, ST SQC G8	2
38	N04-750F000-Y8	Nut, HEX 0.75-16, ST SQC G8	2
39	N05-750F000-Y8	Nut, HEX JAM 0.75-16, ST SQC G8	2
40	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2
41	NYL-750F000-Y8	Nut, HX NYL-INS 0.75-16, ST SQC G8	2
42	SAE520110-12	Nut, HEX, Tubenut 12	REF
43	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	3
44	SHF-750CA75-Y8	SCR, HHCS FT 0.75-10 X 1.75, ST SQC G8	2
45	T02-375CA00-P0	Stud, FT 0.375-16 X 1.00, STL	2
46	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	3
47	W07-750X000-20	WSH, LCK, MED SPLT 0.75, ST SQC	4
48	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	4
49	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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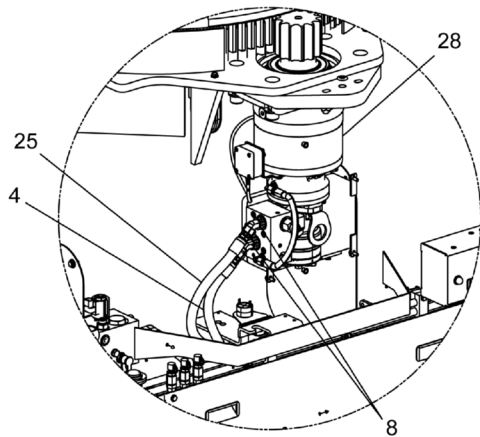
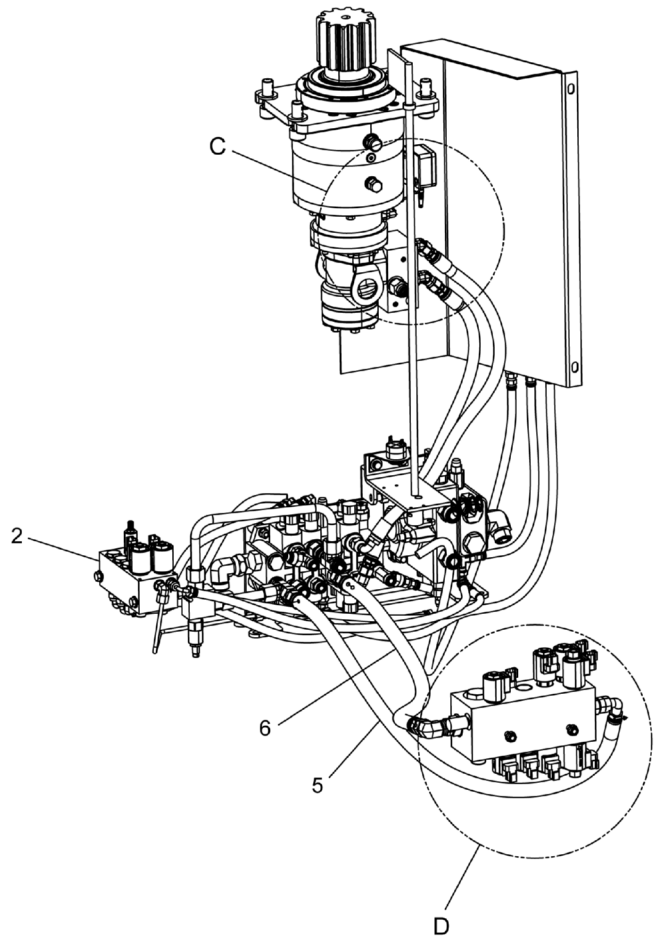
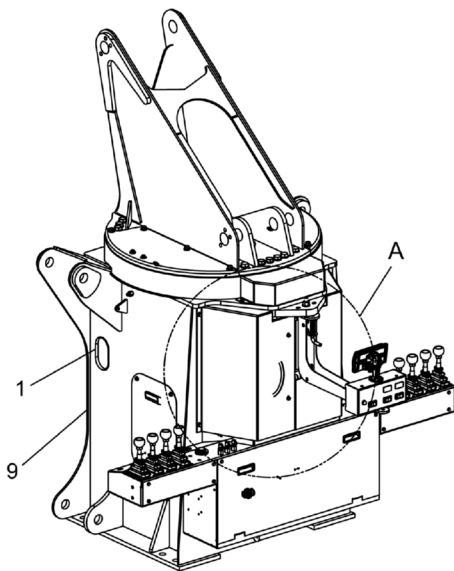
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01838-02 (Rev. G)	HYD INSTL, SUBFRM-MAINFRM	
50	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	3
51	WFT-750XB50-20	WSH, FNDR 0.75 X 2.50 X 0.125, ST SQC	4

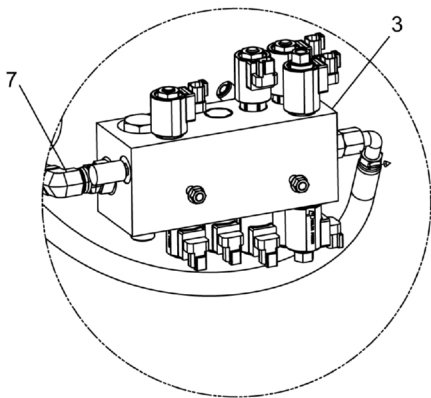
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

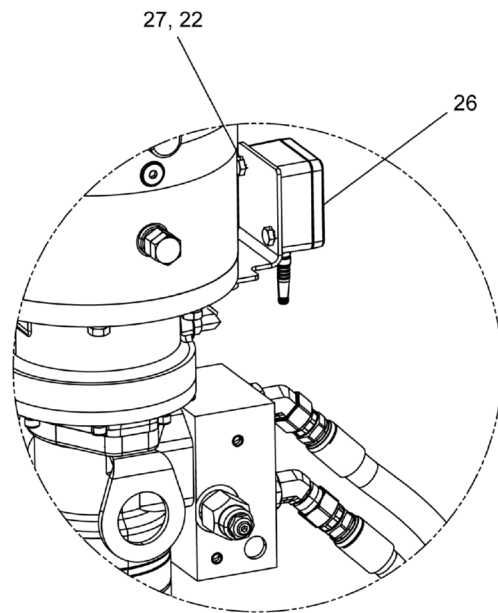
	HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW	DATE: Revised 04-2018	CHAPTER 1
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DETAIL A



DETAIL D



DETAIL C

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS MOTOR SHIFT

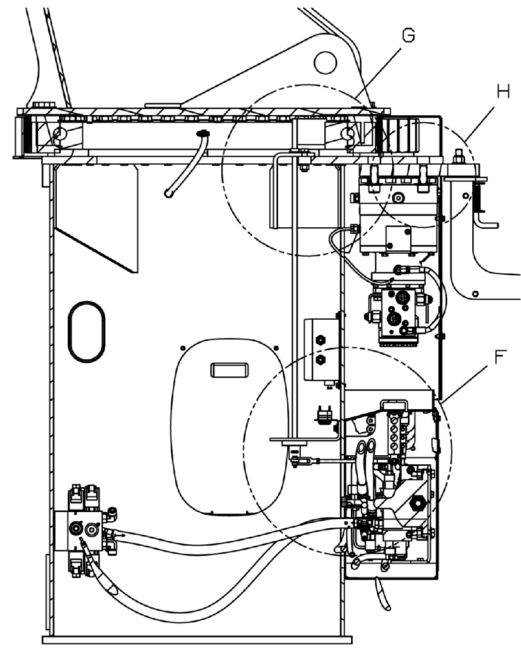
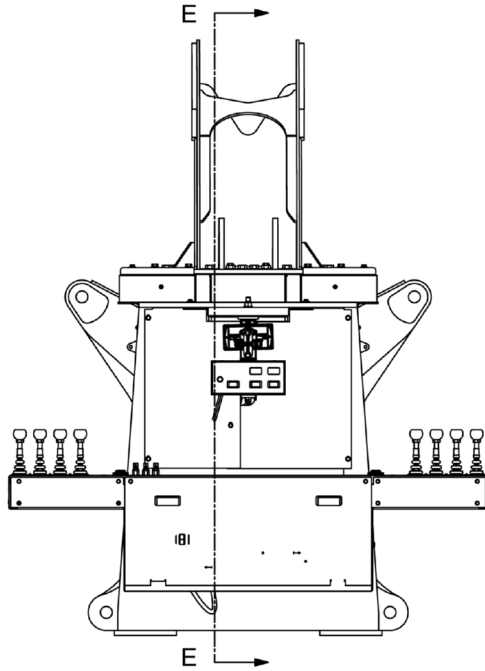
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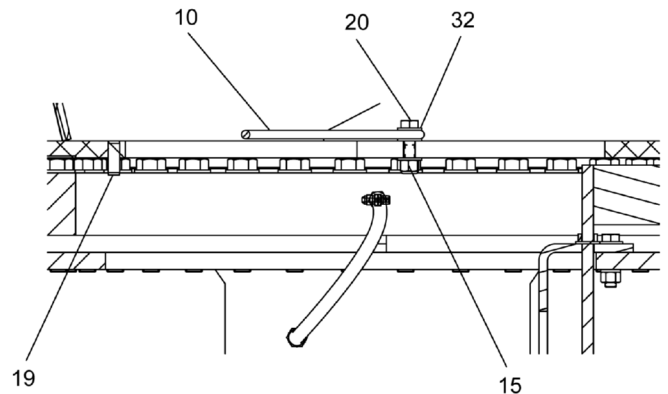
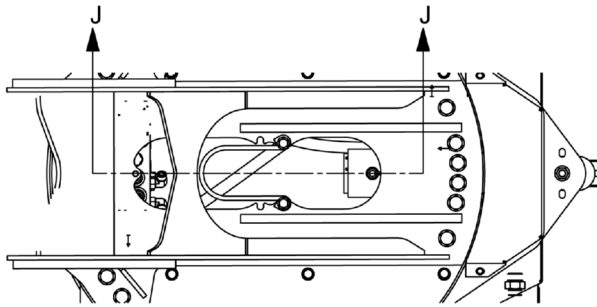
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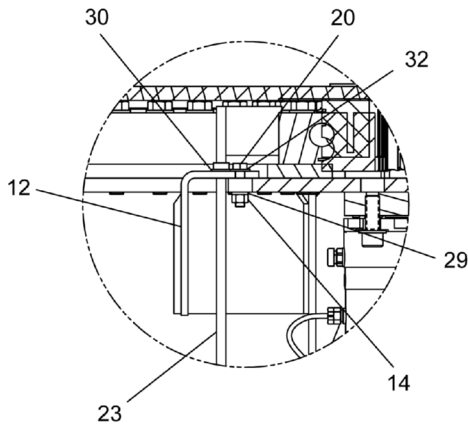
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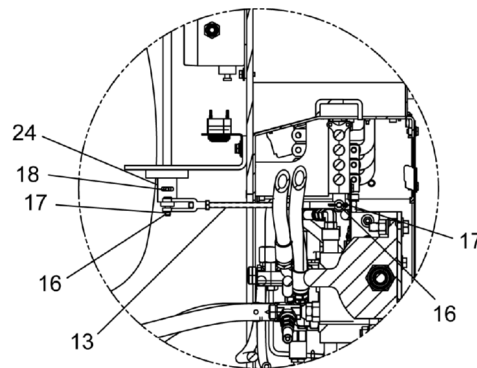
SECTION E - E



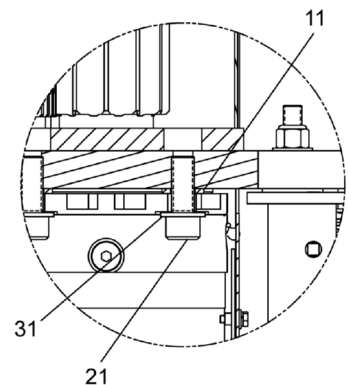
SECTION J - J



DETAIL G



DETAIL F



DETAIL H

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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REF	PART NO.	DESCRIPTION	QTY
	500-01837-02 (Rev. H)	HYD INSTL, MNFRM-Console	
1	12169-16	Flex Trim 3/8" X 18" LONG	3
2	500-01836-04	HYD Install, Console (see page 191)	1
3	500-01844	Valve SUBASSY, Outrigger (see page 142)	1
4	502-30779	Hose, -8, 3000, FOFS-8SW/FOFS-8SW, 625	1
5	502-35082	Hose, Outrigger Return	1
6	502-35091	Hose OR PB-Boom	1
7	514-66004	Elbow, 90, MOFS-10/FOFS-10SW	1
8	515-05005	Elbow, 45, MOFS-8/MORB-10	2
9	695-00185	Mainframe-Console ASSY (see page 144)	REF
10	770-02831	Bracket, Hose Guide	1
11	781-00336	Boss, 1.38 X 0.813 X 0.16	4
12	789-06007	Swivel Stop Arm	1
13	806-00245	Control Link ASSY	1
14	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	2
15	NYL-500C000-25	Nut, HEX NYL-INS 0.50-13, ST Z G5	2
16	P01-312XA00-P0	Pin, Clevis 0.3125 X 1.00, STL	2
17	P02-125X750-20	Pin, Cotter 0.125 X 0.75, ST SQC	2
18	P22-188XA50-GP	Pin, Spring SLTD 0.1875 X 1.50, ST	1
19	P22-500XA50-G2	Pin, Spring SLTD 0.50 X 1.50, ST Z	1
20	S01-500CB00-25	SCR, HHCS 0.50-13 X 2.00, ST Z GR5	4
21	S14-750CB00-H2	SCR, SHCS 0.75-10 X 2.00, ST Z	4
22	SHF-250C625-25	SCR, HHCS FT 0.25-20 X 0.625, STZ G5	2
23	T109850	Flag Weld, Swing Stop	1
24	T124167	Swing Stop Weldment	1
25	T133371	Hose, -8, 4000, FOFS-8SW/FOFS-8SW90, 700	1
26	T145537	Wad Sensor (see page 196)	1
27	T145587	Washer, Lock, External Tooth, 0.25	2
28	T146435	Swing Drive (OMNIGEAR) (see page 146)	1
29	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2
30	WAH-50NX000-Y2	WSH, FL HRD A-NRW 0.50, ST YZ	1
31	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4
32	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	8

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS MOTOR SHIFT

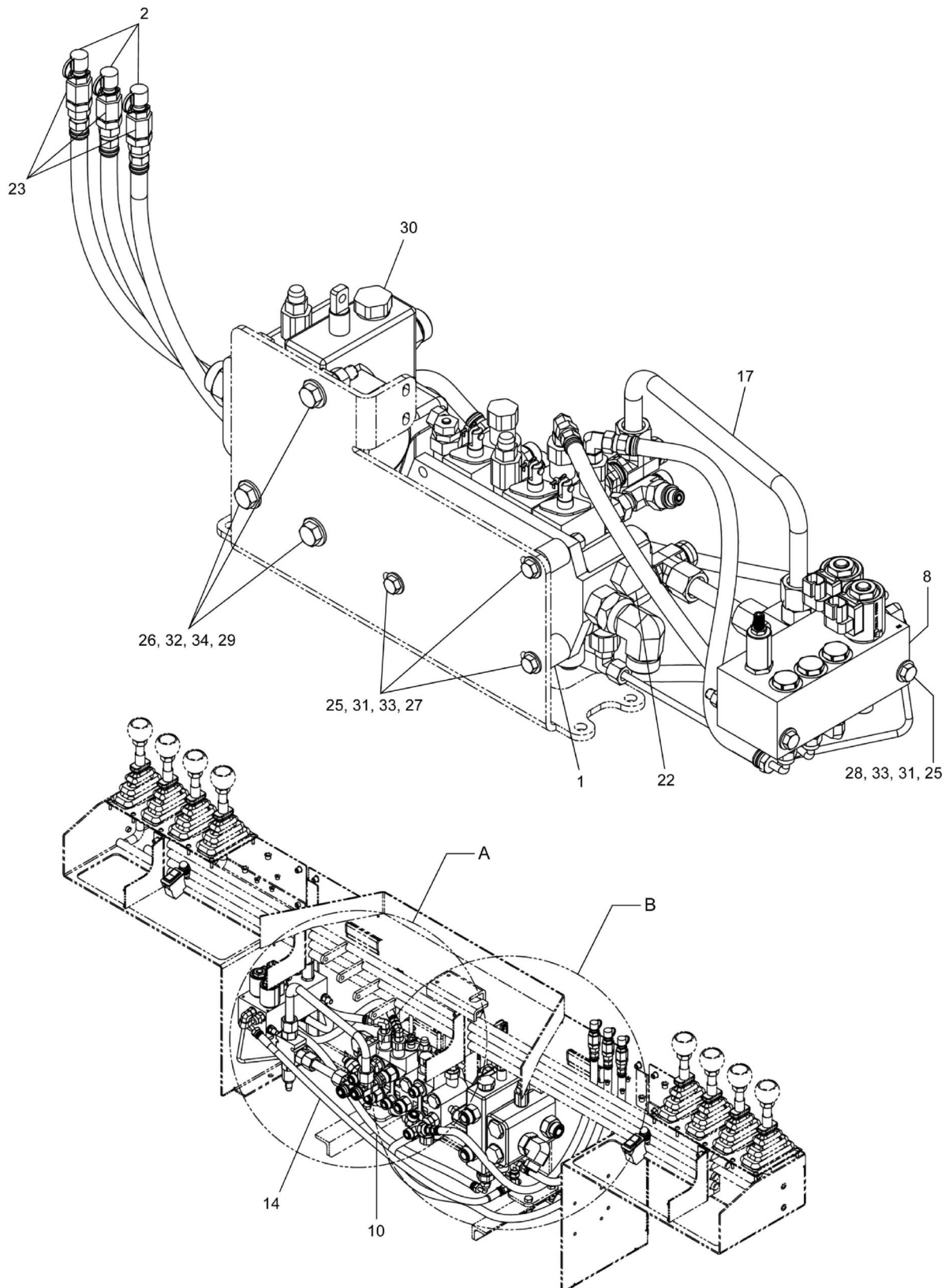
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, MAIN FRAME ASSY - CONTINUOUS ROT MOTOR SHIFT

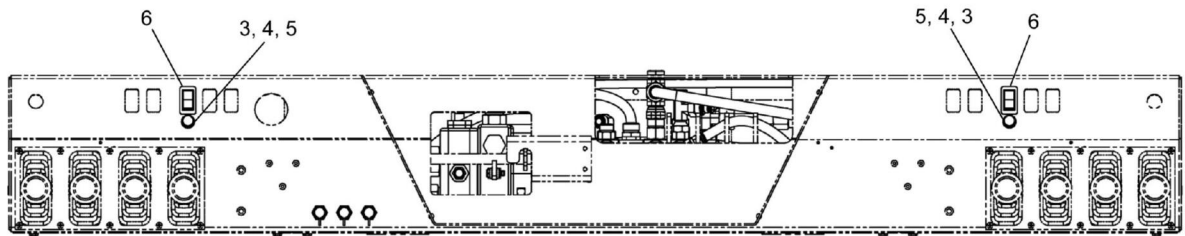
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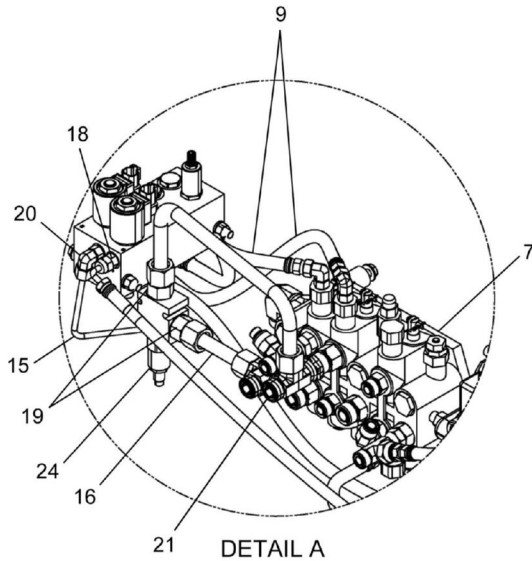
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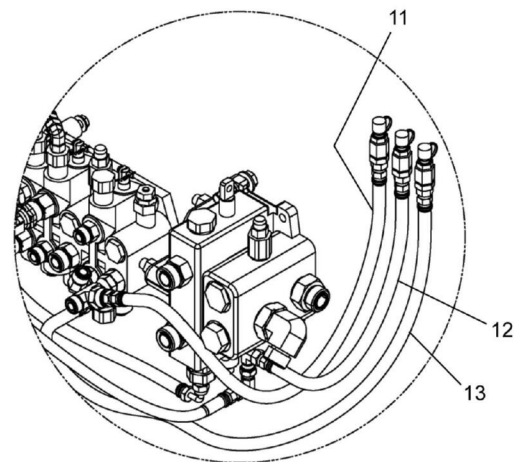
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TOP VIEW



DETAIL A



DETAIL B

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, MAIN FRAME ASSY - CONTINUOUS ROT MOTOR SHIFT

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REF	PART NO.	DESCRIPTION	QTY
	500-01836-04 (Rev. E)	HYD Install, Console	
1	001-20057	Spacer, CYL 0.406 X 1.00 X 1.00	3
2	12019-558	Dust Cap, HQC-4	3
3	1223-1020	Socket	2
4	1223-1021	Lamp 12 V	2
5	1223-1022	Lens Red	2
6	1223-1051	SW Rocker DPDT	2
7	500-01826	Valve ASSY (see page 134)	1
8	500-01828	Valve ASSY, RCI (see page 140)	1
9	502-11325	Hose, LMI-Boom Topping	2
10	502-11327	Hose, LMI Winch Raise Unloadng	1
11	502-11330	Hose, Swing Test Port	1
12	502-11331	Hose, Winch Test Port	1
13	502-11332	Hose, Main Valve Test Port	1
14	502-11333	Hose, 2SP Motor Shift	1
15	510-20465	PB Pilot Drain	1
16	510-60022	Tube, Tele Relief, 0.625 DIA	1
17	510-60023	Tube, Tele Relief, 0.625 DIA	1
18	513-20017	Adapter, MOFS-4/MORB-4	1
19	513-60012	Adapter, MOFS-10/MORB-8	2
20	514-52003	Elbow, 90, MOFS-4/MORB-4	1
21	516-86002	Tee, MOFS-10/FOFS-10SW/MOFS-10	1
22	517-30004	Plug, SOC HD 3/4 ORB	1
23	518-20013	Parker # PD 346	3
24	559-00262	Valve, Relief	1
25	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	5
26	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	3
27	S01-375CB50-25	SCR, HHCS 0.375-16 X 2.50,ST SQC G5	3
28	S01-375CD00-25	SCR, HHCS 0.375-16 X 4.00,ST SQC G5	2
29	S01-500CB00-25	SCR, HHCS 0.50-13 X 2.00, ST Z GR5	3
30	T150361	Valve SUBASSY, Winch (see page 194)	1
31	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	5
32	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	3
33	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	5
34	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	3

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, MAIN FRAME ASSY - CONTINUOUS ROT MOTOR SHIFT

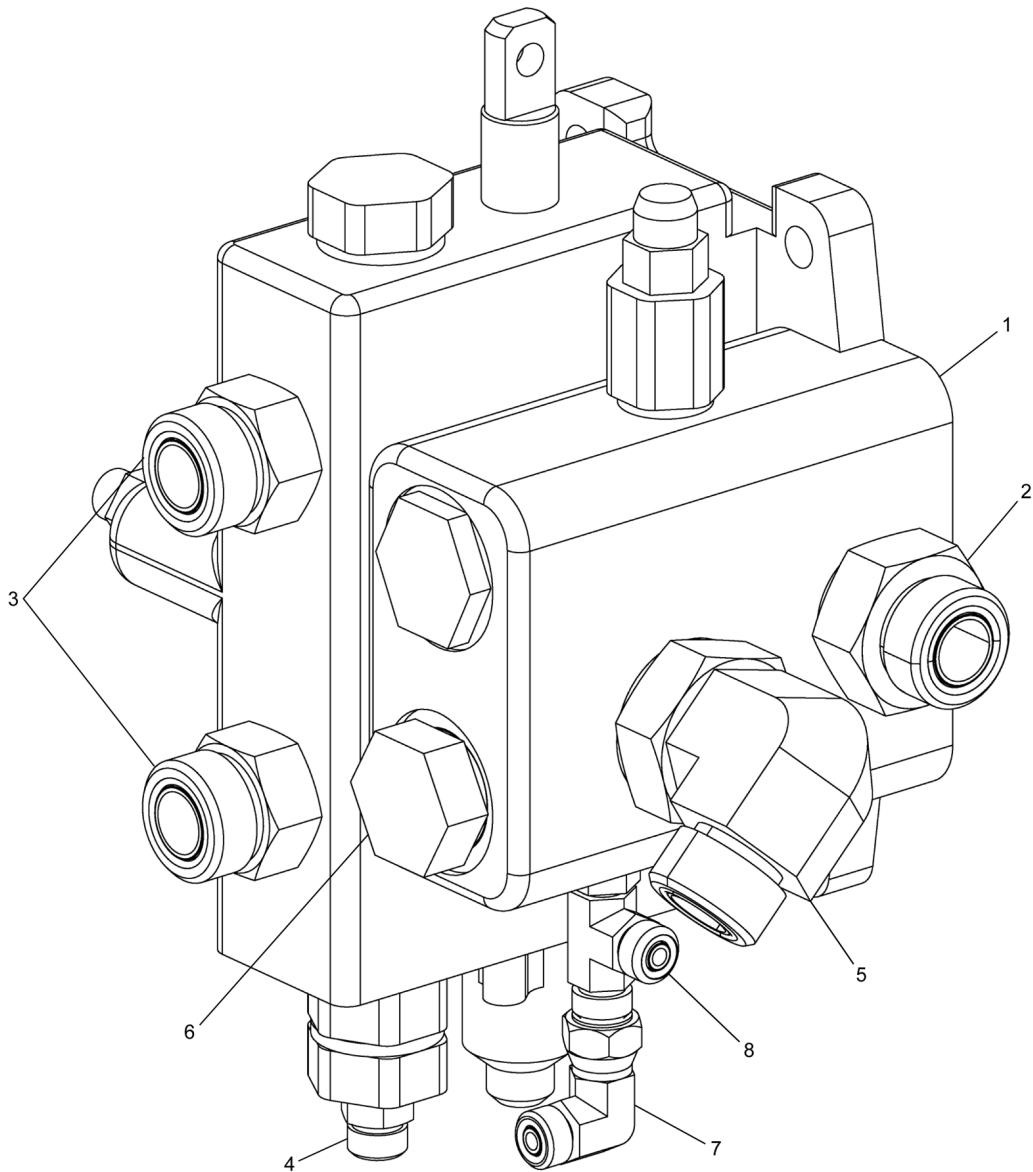
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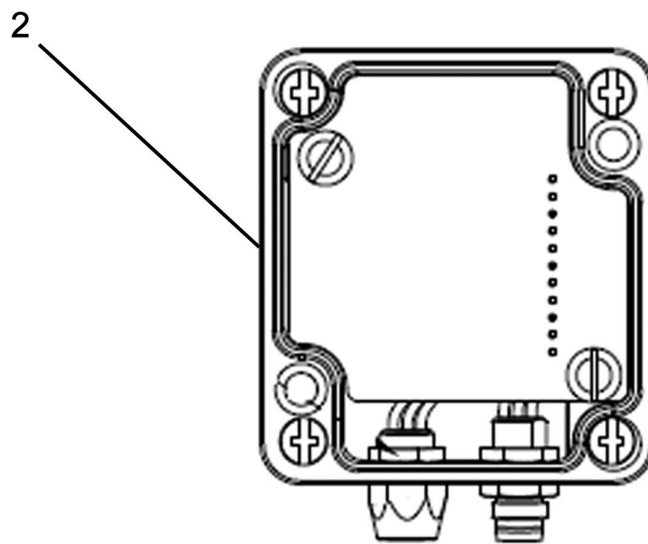
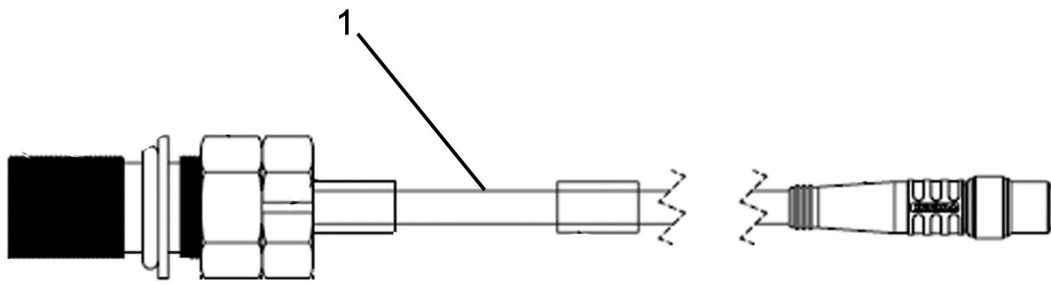


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T150361 (Rev. A)	Valve SUBASSY, Winch	
1	550-00420	Valve, Winch Control	1
2	513-70026	Adapter, MOFS-12/MORB-16	1
3	513-70023	Adapter, MOFS-12/MORB-12	2
4	513-20017	Adapter, MOFS-4/MORB-4	1
5	514-59023	Elbow, 90, MOFS-12/MORB-16	1
6	517-30004	Plug, SOC HD 3/4 ORB	1
7	514-62002	Elbow, 90, MOFS-4/FOFS-4SW	1
8	516-82006	Tee, MOFS-4/MORB-4/MOFS-4	1

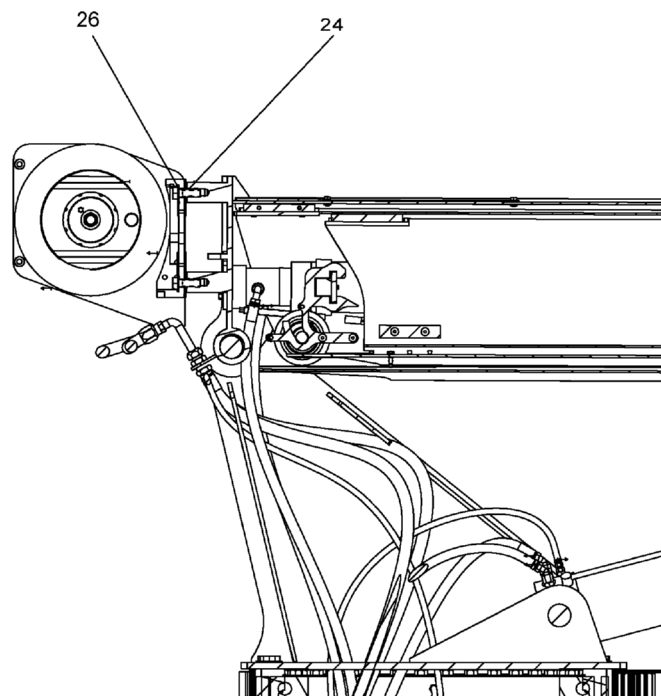
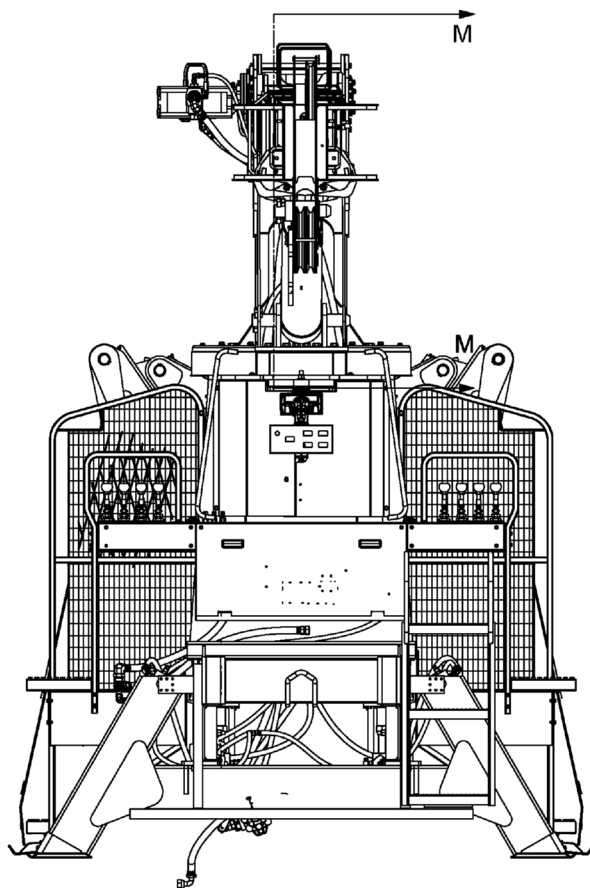
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	VALVE SUBASSEMBLY, WINCH	DATE: Released 05-2017	CHAPTER 1
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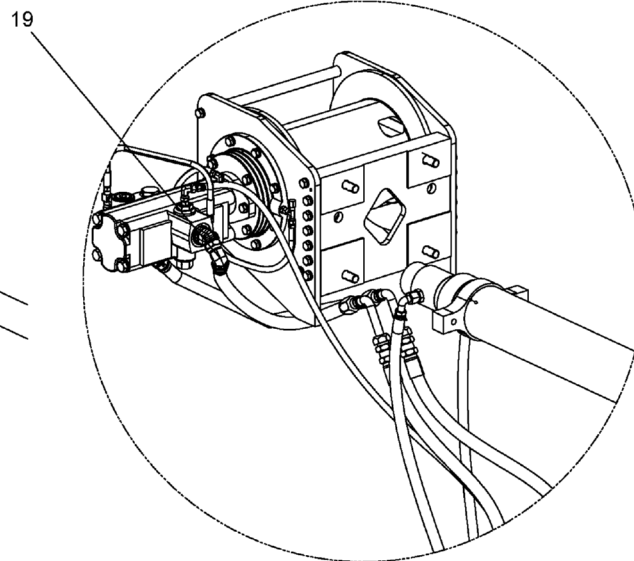
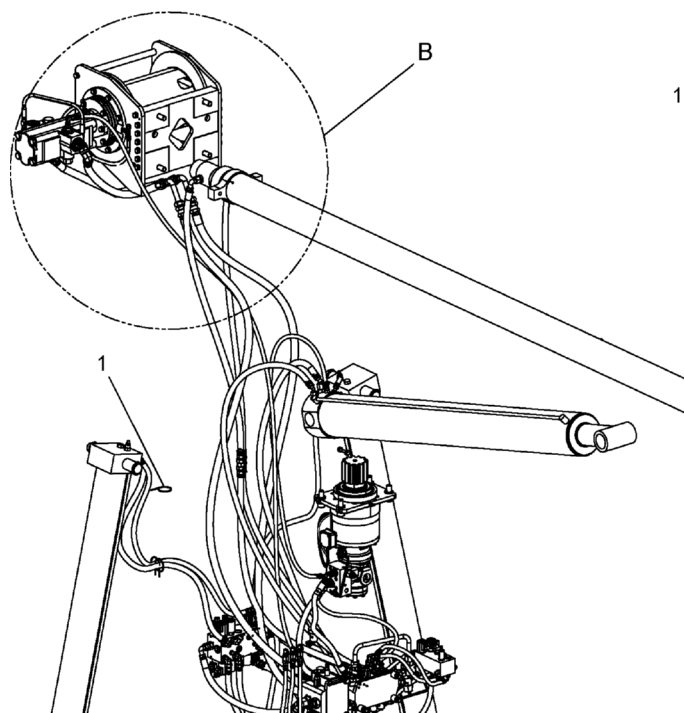


<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T145537 (Rev. A)	Wad Sensor	
1	231008	Sensor, Hall Effect	1
2	231009	Signal Conditioner-WAD/ISS	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SECTION M - M



DETAIL B

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - MOTOR SHIFT (2 SPEED)

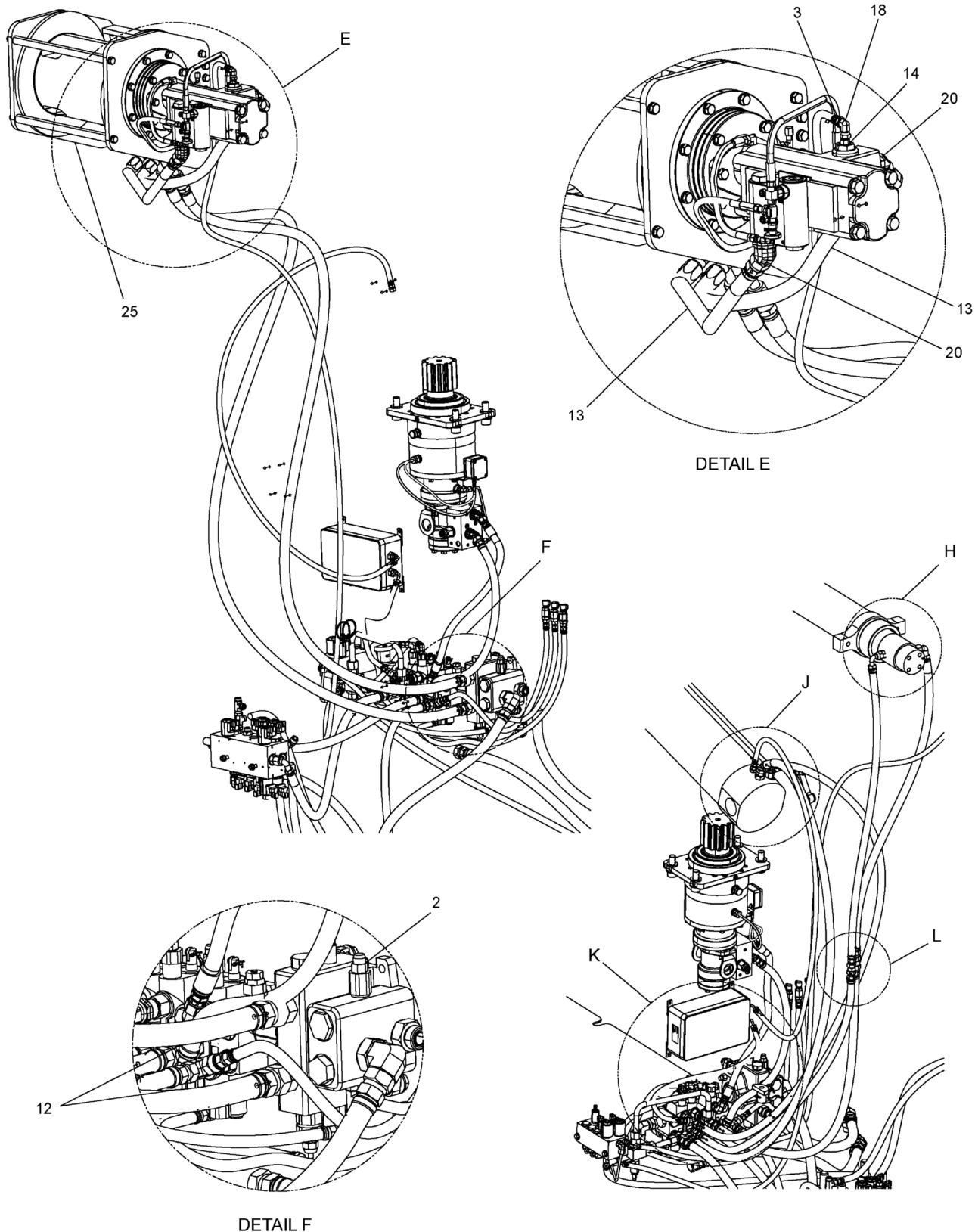
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - MOTOR SHIFT (2 SPEED)

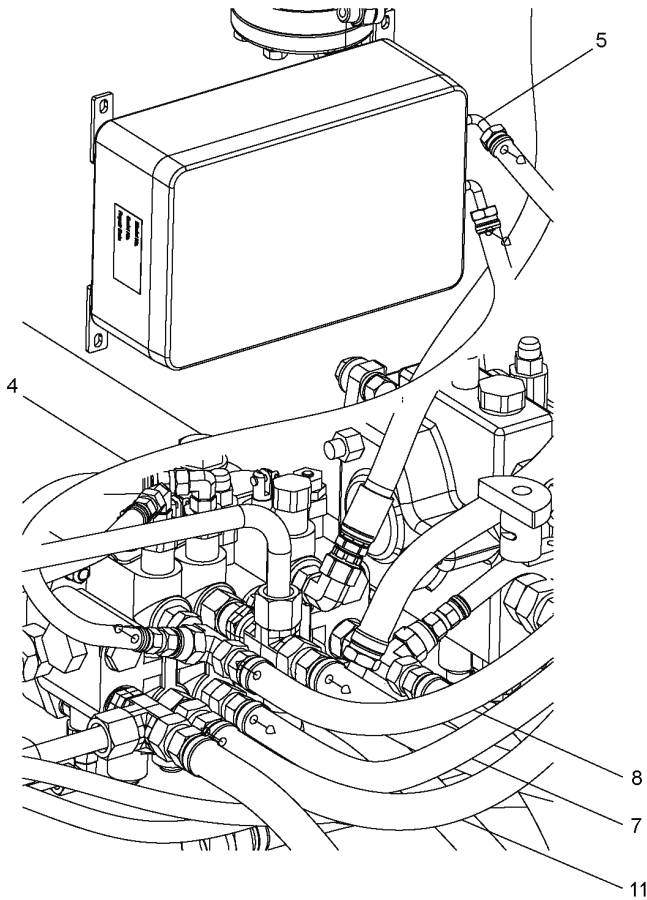
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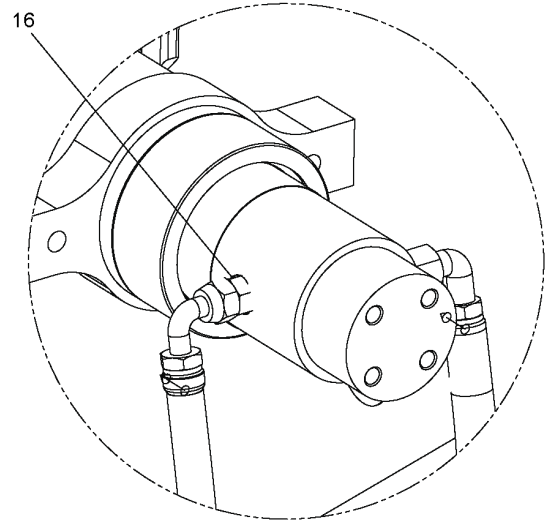
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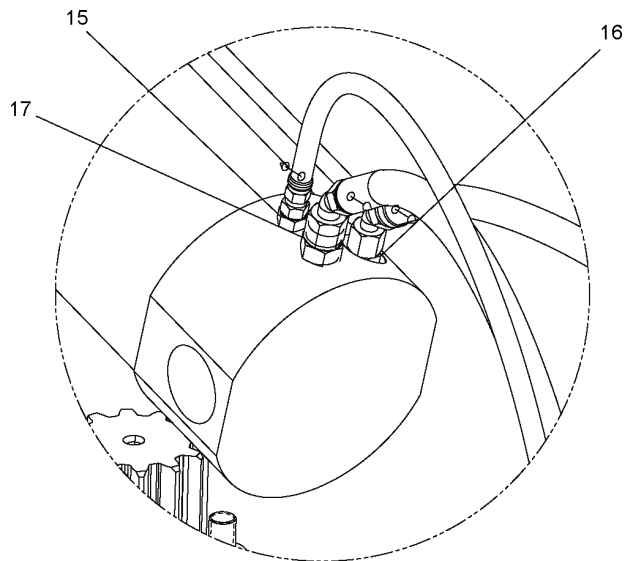
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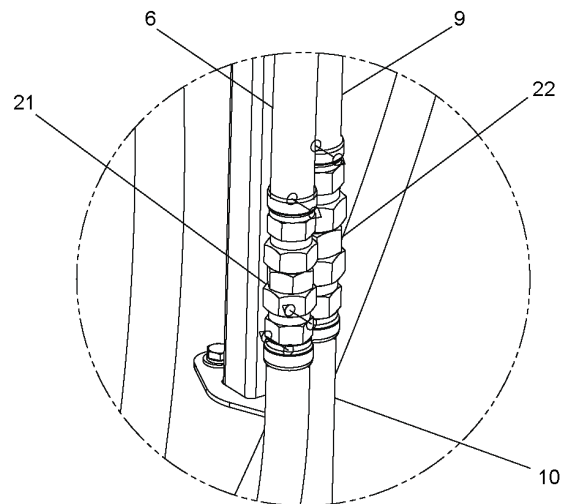
DETAIL K



DETAIL H



DETAIL J



DETAIL L

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL NON CONTINUOUS - MOTOR SHIFT (2 SPEED)

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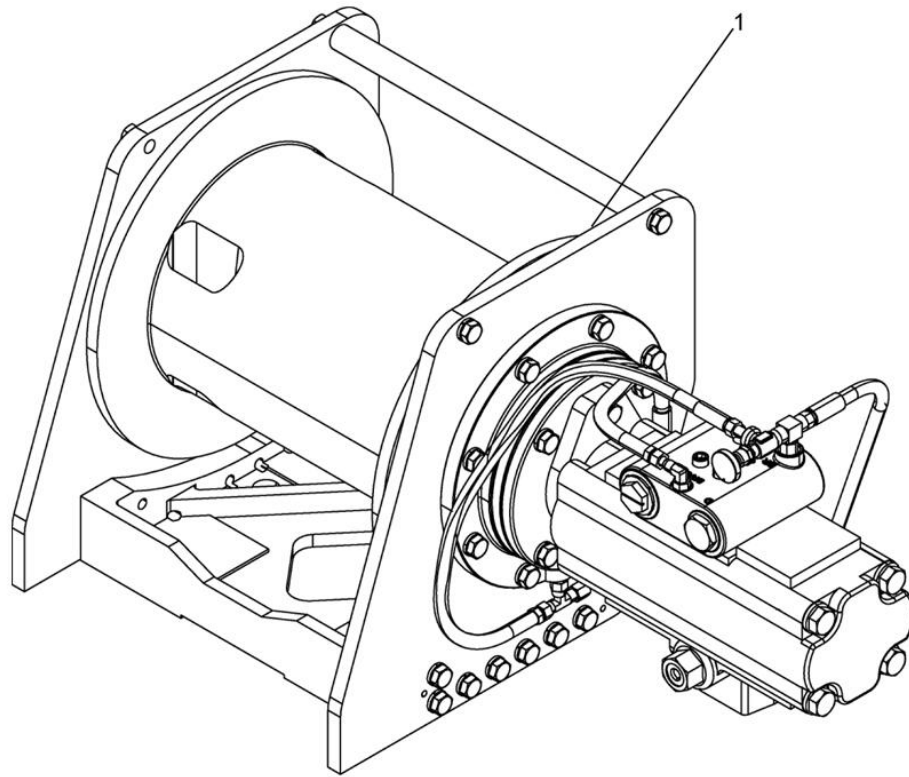
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-02 (Rev. D)	HYD Install, 19-70, NON CON-MS	
1	400-15086	Tie, Nylon CBL, 1.75 DIA	1
2	500-01839-02	HYD INSTL, Main O/R Non Continuous Motor Shift (see page 182)	1
3	502-11346	502-11346-Hose ASSY, 2SP Pilot	1
4	502-11350	Hose, Hydraulic, RCI	1
5	502-11351	Hose, HYD RCI Topping Rod Base	1
6	502-30783	Hose ASSY, Tele Retract - Upper	1
7	502-30784	Hose ASSY, TELE Retract-Lower	1
8	502-30787	Hose, Boom Topping Retract	1
9	502-35084	Hose ASSY, Tele Extend - Upper	1
10	502-35085	Hose ASSY, TELE Extend-Lower	1
11	502-35087	Hose, Boom Topping Extend	1
12	502-41014	Hose ASSY, Winch	2
13	502-41015	Hose ASSY, Winch, Short	2
14	513-20017	Adapter, MOFS-4/MORB-4	1
15	513-20019	Adapter, MOFS-4/MORB-6	1
16	513-50023	Adapter, MOFS-8/MORB-8	2
17	513-60008	Adapter, MOFS-10/MORB-10	2
18	514-62002	Elbow, 90, MOFS-4/FOFS-4SW	1
19	514-67004	Elbow Swivel 90°	1
20	515-07003	Elbow 45°	2
21	519-50024	Union Fitting, STR M08 OFS	1
22	519-60017	Union Fitting, STR M10 OFS	1
23*	695-10020	Structural Assembly, 19-70 (see page 61)	REF
24	S01-750CB25-Y8	SCR, HHCS 0.75-10X2.25, ST YZ GR8	4
25	500-01833-02_Winch ASSY	Winch ASSY (see page 201)	1
26	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4

* ITEM IS NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-02_Winch ASSY (Rev. 00)	Winch ASSY	
1	T145104	Winch ASSY	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSY

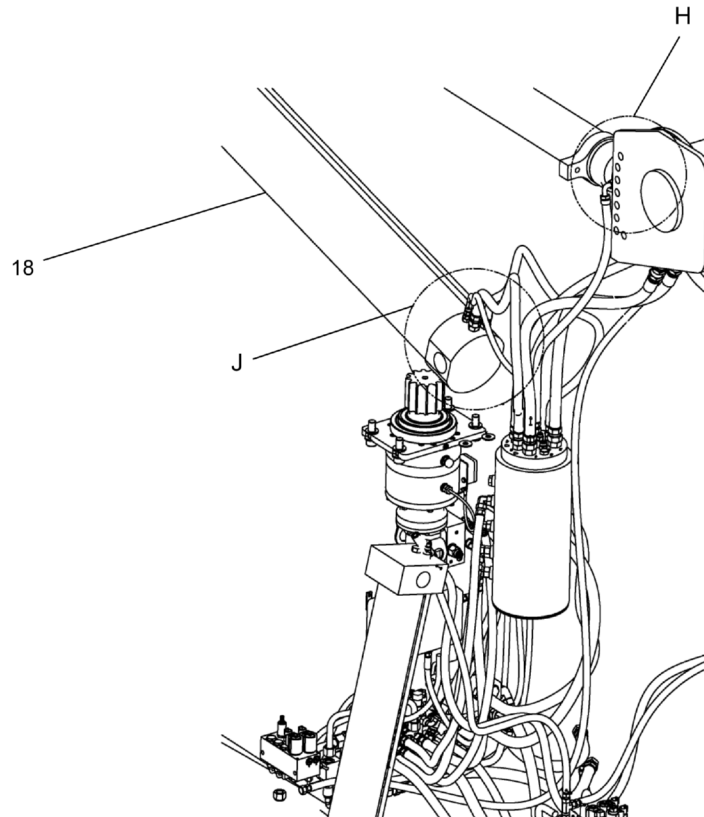
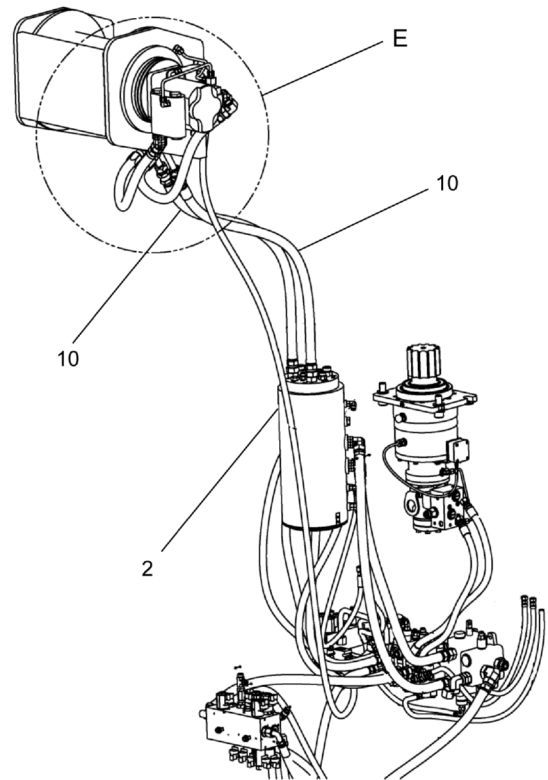
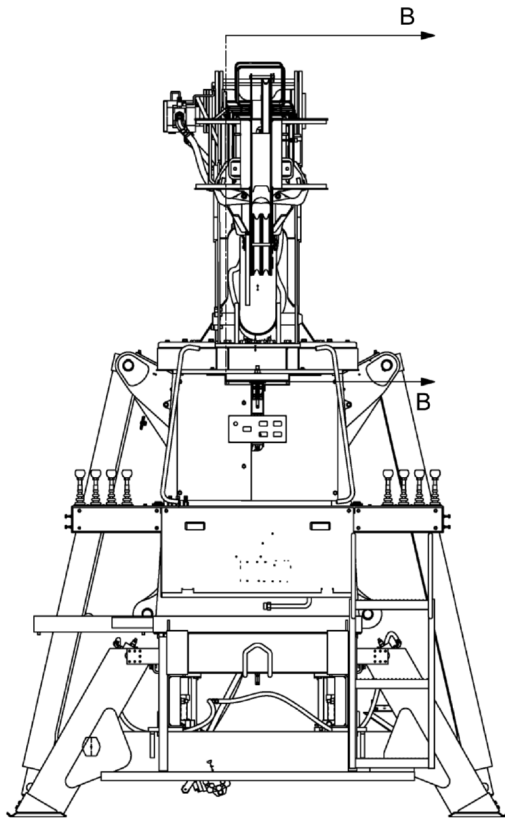
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, CONTINUOUS ROTATION, COMBINED FLOW (1 SPEED)

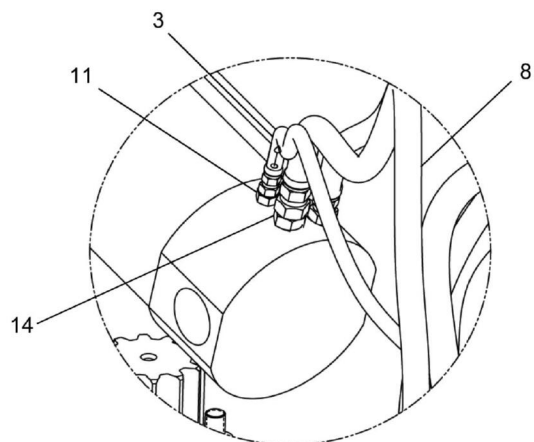
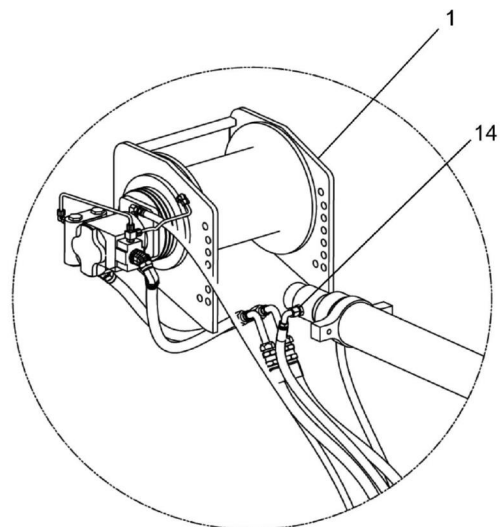
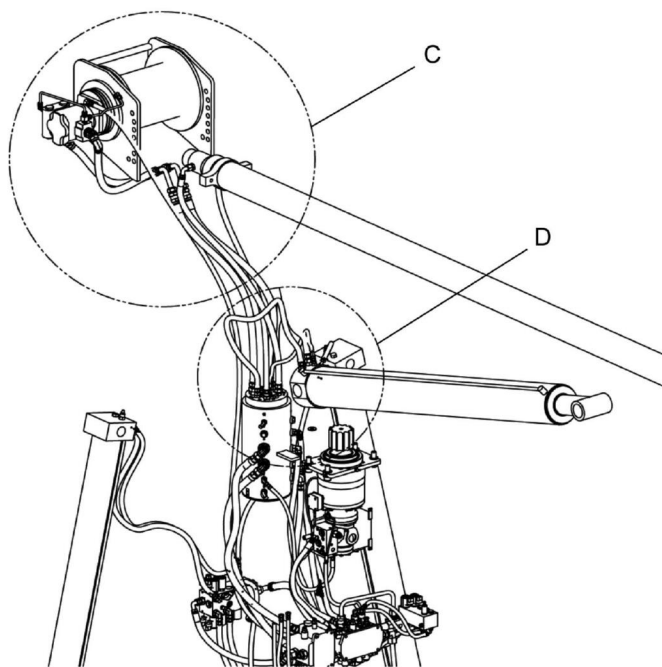
DATE: Revised 11-2016

MODEL: 19-70

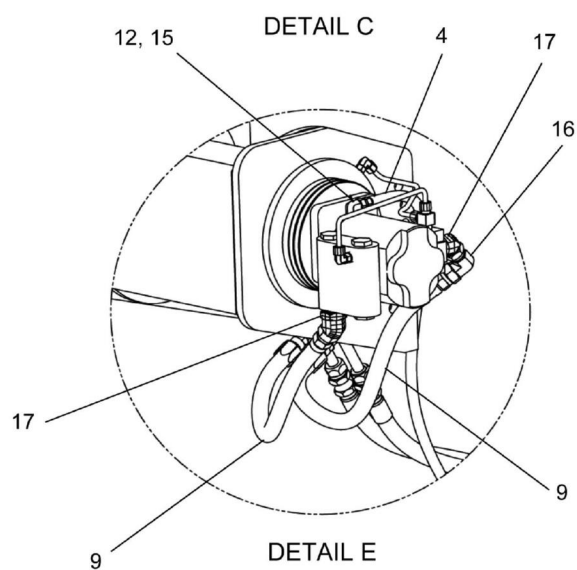
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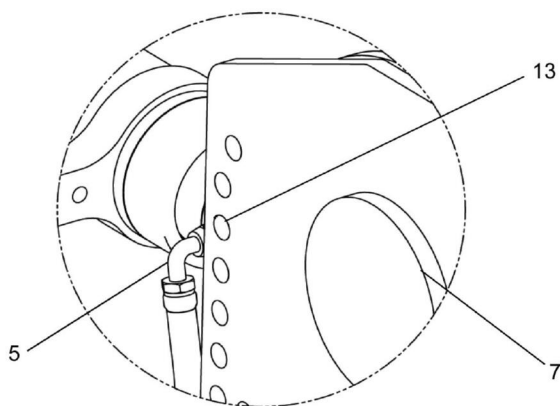
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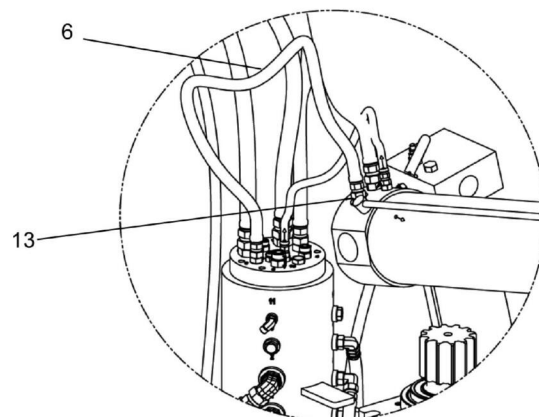
DETAIL J



DETAIL E



DETAIL H



DETAIL D

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, CONTINUOUS ROTATION, COMBINED FLOW (1 SPEED)

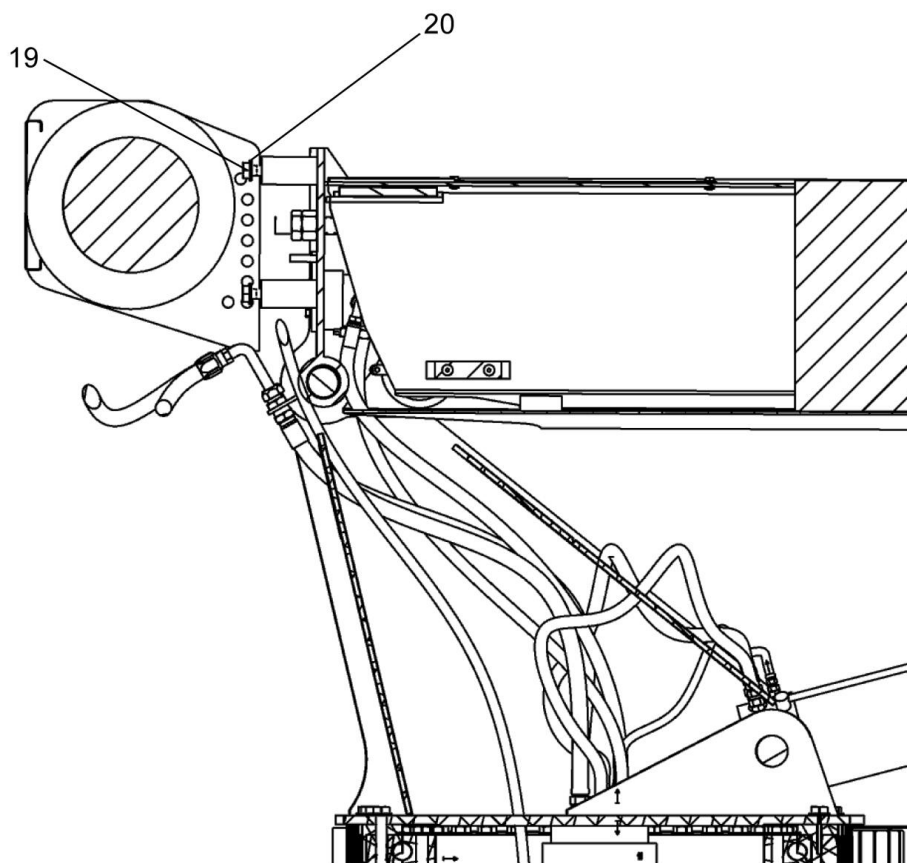
DATE: Revised 11-2016

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SECTION B-B

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, CONTINUOUS ROTATION, COMBINED FLOW (1 SPEED)

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-03 (Rev. E)	HYD INSTL, 19-70, CON - CF	
1	293-00037-2.2	Winch ASSY (see page 206)	1
2	500-01839-03	HYD INSTL, Main O/R Non Continuous Combined Flow (see page 209) . .	1
3	502-11348	Hose ASSY, RCI/TPG CYL Upper	1
4	502-21020-01	Hose	1
5	502-30783	Hose ASSY, Tele Retract - Upper	1
6	502-30786	Hose ASSY, TBG (RET) Upper	1
7	502-35084	Hose ASSY, Tele Extend - Upper	1
8	502-35088	Hose Assembly, Boom TPG (EXT) Upper	1
9	502-41015	Hose ASSY, Winch, Short	2
10	502-41016	Hose ASSY, Winch Swivel Upper	2
11	513-20019	Adapter, MOFS-4/MORB-6	1
12	513-20027	STR Adapter, FF-2404-6-4	1
13	513-50023	Adapter, MOFS-8/MORB-8	2
14	513-60008	Adapter, MOFS-10/MORB-10	2
15	514-64002	Elbow 90 DEG, Swivel, -6	1
16	514-67004	Elbow Swivel 90°	1
17	515-07003	Elbow 45°	2
18	695-10020	Structural Assembly, 19-70 (see page 61)	1
19	S01-750CB25-Y8	SCR, HHCS 0.75-10X2.25, ST YZ GR8	4
20	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, CONTINUOUS ROTATION, COMBINED FLOW (1 SPEED)

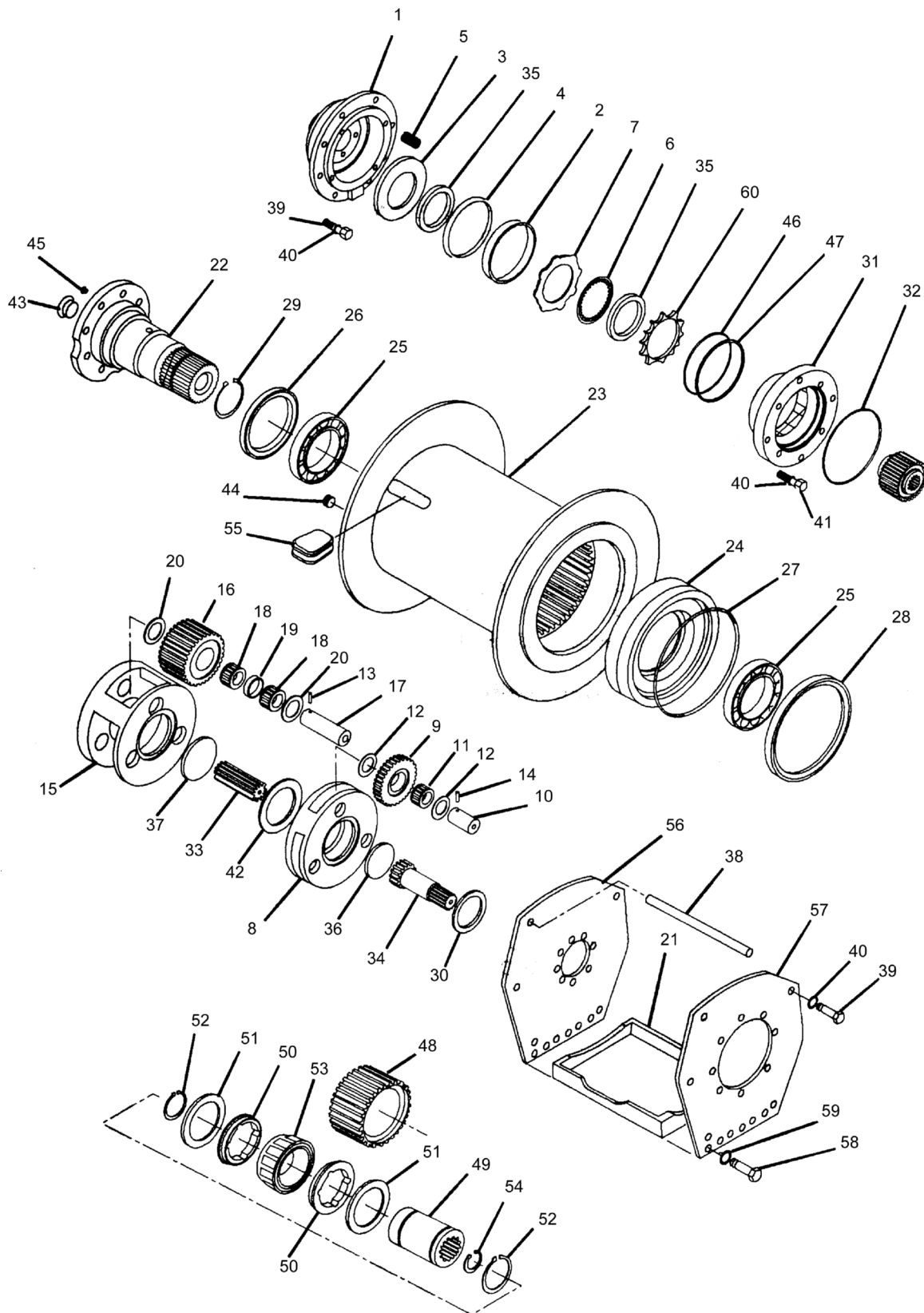
DATE: Revised 11-2016

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSEMBLY (BRADEN)

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REF	PART NO.	DESCRIPTION	QTY
	293-00037-2.2 (Rev. E)	Winch ASSY	
	058-00597	Brake Clutch Assembly (Items 48 through 54)	1
1	058-00632	Brake Cylinder	1
2	058-00429	Seal	1
3	058-00430	Pressure Plate	1
4	058-00432	Backup Ring	1
5	058-00431	Die Spring - Winch	12
6	058-00634	Disc, Friction	7
7	058-00629	Disc, Steel	8
8	058-00584	Primary Planet Carrier	1
9	058-00585	Primary Planet Gear	3
10	058-00396	Primary Planet Gear Shift	3
11	058-00397	Bearing, Roller	3
12	058-00398	Washer, Thrust	6
13	058-00399	Spirol Pin, Primary Planet Carrier	3
14	085-00627	Spirol Pin Output Planet Carrier	3
15	058-00402	Output Planet Carrier	1
16	058-00403	Output Planet Gear	3
17	058-00404	Output Planet Gear Shift	3
18	058-00405	Bearing, Roller	6
19	058-00406	Bearing, Spacer	3
20	058-00407	Washer, Thrust	1
21	058-00579	Base	1
22	058-00636	Bearing Support	1
23	058-00581	Cable Drum	1
24	058-00582	Cable Drum Closure	1
25	058-00413	Bearing, Ball	2
26	058-00420	Seal	1
27	058-00421	O-Ring Flush Plug	1
28	058-00487	Seal	1
29	058-00423	Retaining ring	1
30	058-00610	Washer, thrust	1
31	058-00637	Motor Support	1
32	058-00540	O-Ring	1
33	058-00415	Output Sun Gear	1
34	058-00416	Primary Sun Gear	1
35	058-00433	Spacer	1
36	058-00400	Primary Thrust Plate	1
37	058-00408	Output Thrust Plate	1
38	058-00444	Spacer, Bar	2
39	058-00568	Capscrew	14
40	058-00034	Washer, Lock	22
41	058-00565	Capscrew	4
42	058-00611	Washer, Lock	1
43	058-00595	O-Ring Flush Plug	1
44	058-00426	O-Ring, Flush Plug	1
45	058-00608	Plug, Vent	1
46	058-00434	O-Ring	1
47	058-00435	Backup Ring	1
48	Outer Brake Race	Outer Brake Race	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH ASSEMBLY (BRADEN)

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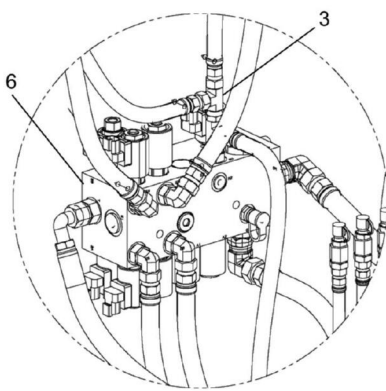
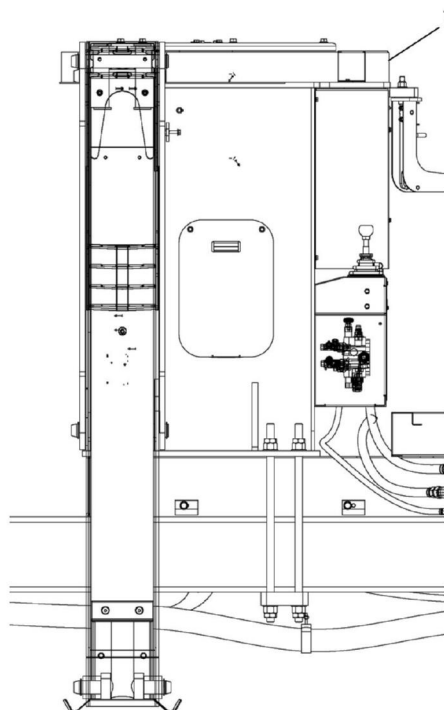
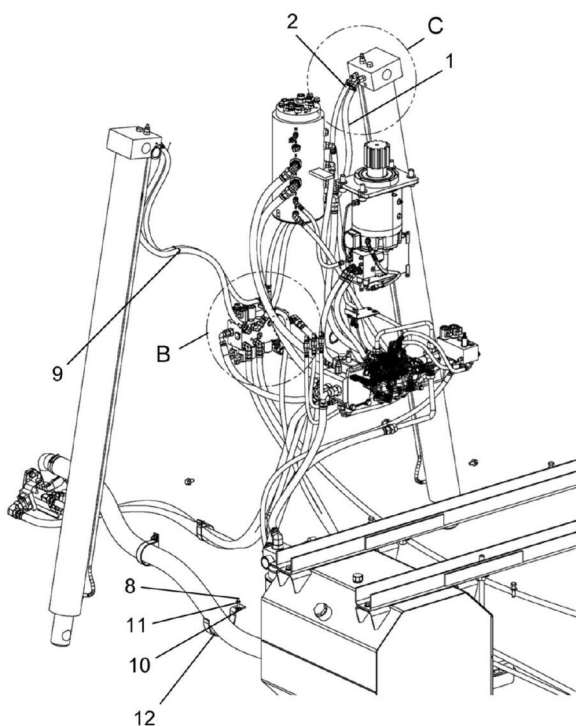
CHAPTER

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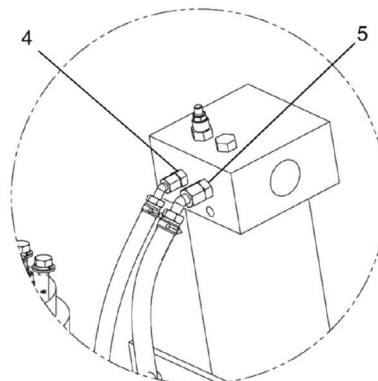
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	293-00037-2.2 (Rev. E)	<i>Winch ASSY</i>	
49	Inner Brake Race	Inner Brake Race	1
50	058-00609	Sprag Bearing	2
51	058-00389	Washer, Thrust	2
52	058-00390	Retaining Ring	2
53	Sprag, Clutch	Sprag, Clutch	1
54	058-00391	Retaining Ring	1
55	058-00639	Cable, Wedge	1
56	058-00598	Side Plate, Support End	1
57	058-00599	Side Plate, Motor End	1
58	058-00440	Capscrew	8
59	058-00607	Washer, Lock	8
60	058-00643	Spring, Cover	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	WINCH ASSEMBLY (BRADEN)	DATE: Revised 02-2015	CHAPTER 1
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DETAIL B



DETAIL C

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, MAIN O/R, NON CONTINUOUS / CONTINUOUS ROTATION - COMBINED FLOW

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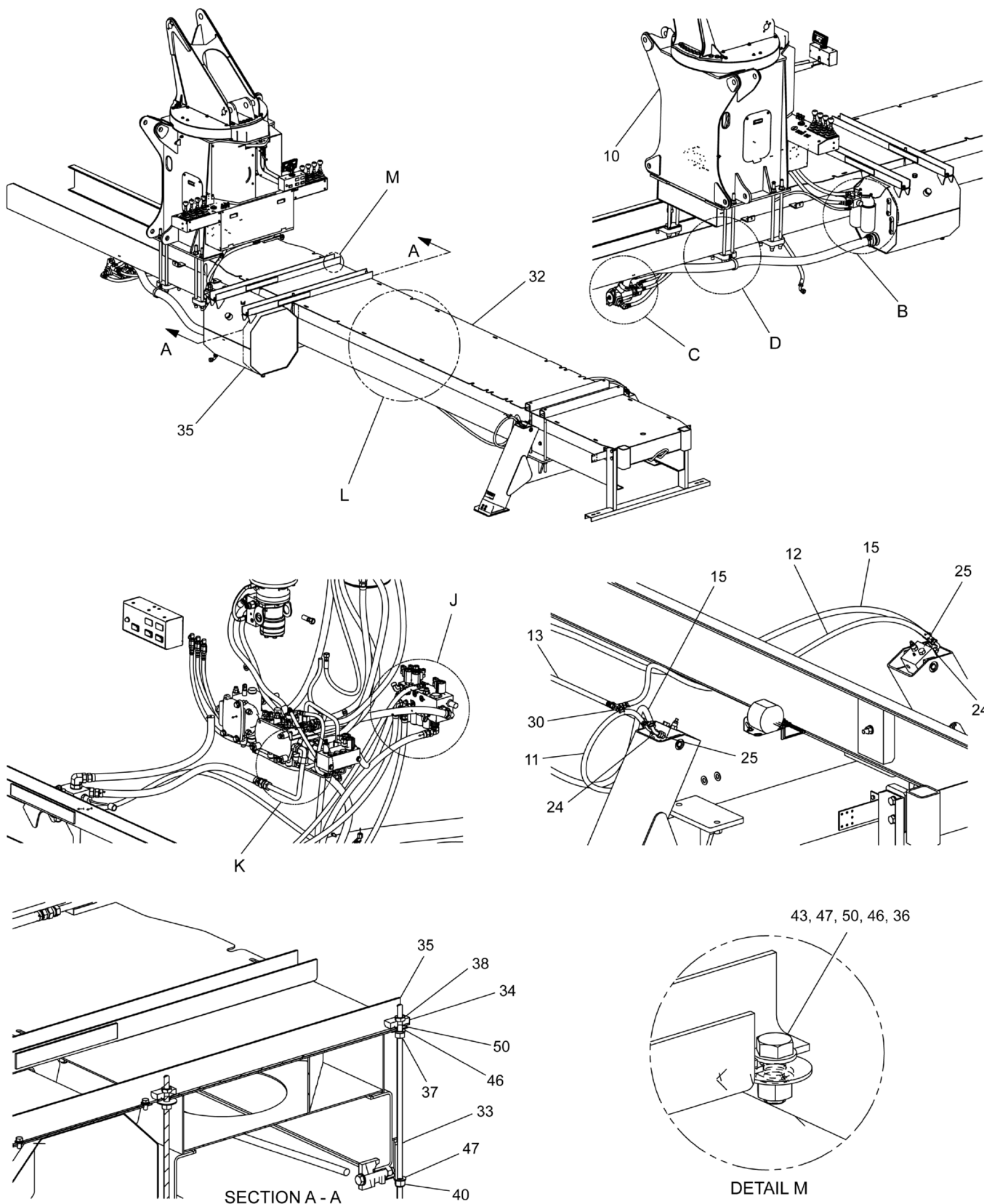
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01839-03 (Rev. B)	<i>HYD INSTL, Main O/R Non Continuous Combined Flow</i>	
1	502-30788	Hose, Main Outrigger Extend	2
2	502-21024	Hose, Main Outrigger Retract	2
3	516 -84003	Tee, Run 2X M#6 OFS X F #6 OFS	1
4	513- 40014	STR CONN M#6 OFS X M#6 ORB	2
5	513-50023	Adapter, MOFS-8/MORB-8	2
6	500-01838-03	HYD INSTL, SUBFRM-MAINFRM (see page 211)	1
7	695-10019	Truck Attach Main Assembly (see page 66)	Ref
8	S01-312CA75-25	SCR, HHCS 0.3125 -18X1.75, ST Z G5	1
9	400-15086	Tie, Nylon CBL, 1.75 DIA	4
10	WAW -31WX000-20	WSH, FL TYP A -W ID 0.3125, ST Z	1
11	NYL-312C000-25	Nut, HEX NYL-INS 0.312-18, ST SQC G5	1
12	201-00119	Clamp, Hose, 2.625 DIA	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYD INSTL, MAIN O/R, NON CONTINUOUS / CONTINUOUS ROTATION - COMBINED FLOW	DATE: Released 12-2013	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

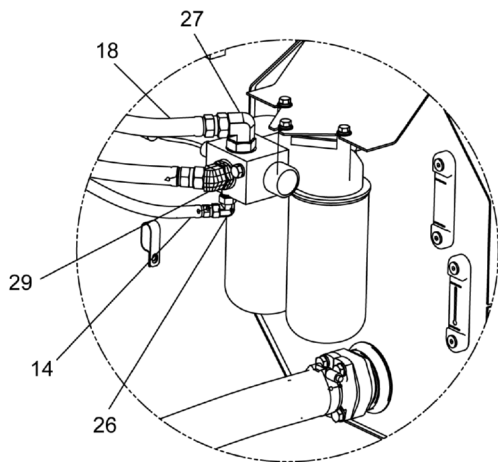
DATE: Revised 04-2018

MODEL: 19-70

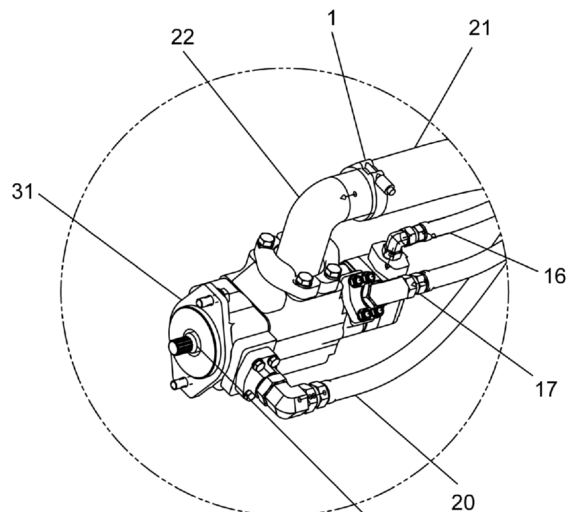
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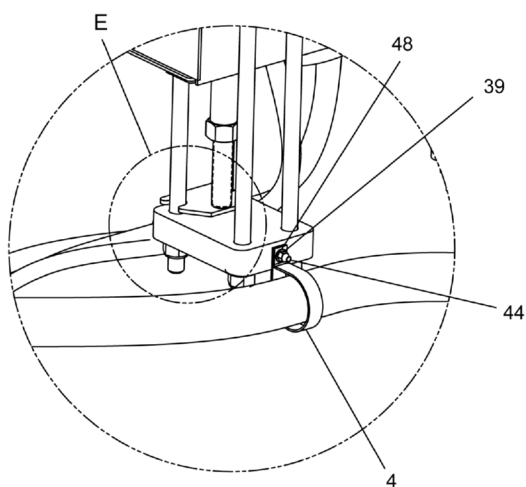
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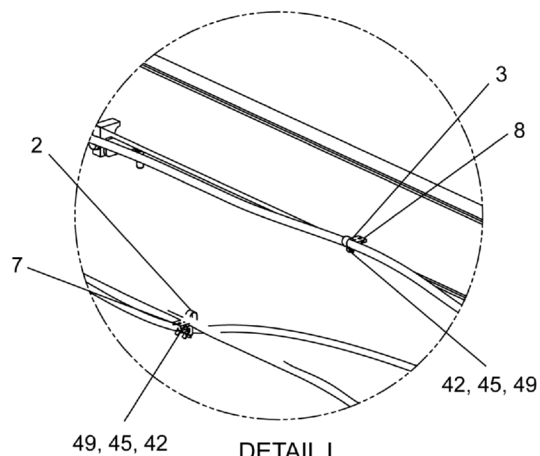
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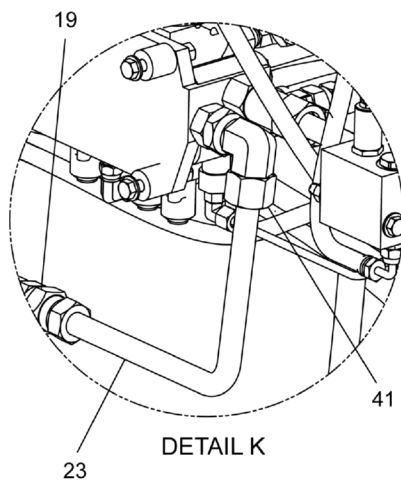
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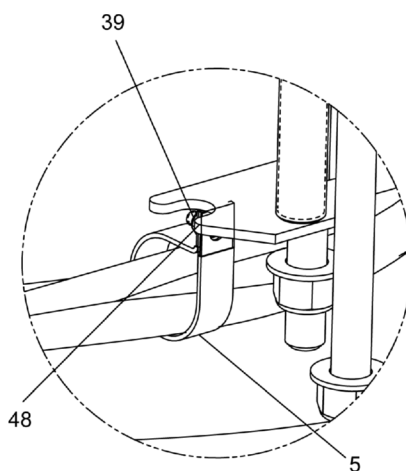
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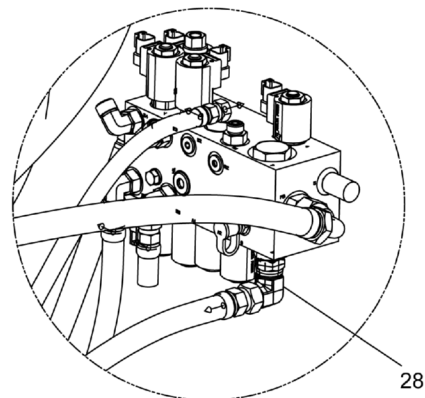
DETAIL L



DETAIL K



DETAIL E



DETAIL J

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

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REF	PART NO.	DESCRIPTION	QTY
	500-01838-03 (Rev. J)	HYD INSTL, SUBFRM-MAINFRM	
1	1240-101	Clamp, T-Bolt, SAE 60	2
2	200B2007-67	Clamp, Double, MED, 0.88 ID	2
3	200B2007-7	Clamp 7/8 DIA With .41 Hole	1
4	201-00257	Clamp, 3.50 DIA	1
5	201-00258	Clamp, 2.50 DIA	1
6*	209-00804	Hose Protector (HP8-B)	1
7	209-00879	Frame Clip Caddy, DBLE	2
8	209-00880	Frame Clip Caddy, SNGL	1
9*	220-07056	Tie Rod	2
10	500-01837-03	HYD INSTL, MNFRM-Console (see page 215)	1
11	502-21016	Hose, AUX Outrigger SS RET	1
12	502-21017	Hose, AUX OUTRIG CS RET	1
13	502-21018	Hose, Front Outrigger	1
14	502-21025	Hose, LMI Return	1
15	502-30770	Hose, AUX Outrigger Extend	2
16	502-30782	Hose, Pump to Main Valve	1
17	502-35089	Hose, Pump-OR Valve	1
18	502-41017	Hose, Winch Return	1
19	502-41018	Hose, Main Valve Return	1
20	502-41019	Hose, Pump-Winch Valve	1
21	503-06008	Hose, Pump Inlet	1
22	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1
23	510-70844	Tube, Main Valve Return	1
24	513-40014	Adapter, MOFS-6/MORB-6	2
25	513-50023	Adapter, MOFS-8/MORB-8	2
26	514-55020	Elbow, 90, MOFS-6/MORB-8	1
27	514-59023	Elbow, 90, MOFS-12/MORB-16	1
28	514-66004	Elbow, 90, MOFS-10/FOFS-10SW	1
29	515-07003	Elbow 45°	1
30	516-44002	Tee, MOFS-6/MOFS-6/MOFS-6	1
31	521-00084-6	Pump Auto Trans Installation (see page 154)	1
32	695-10018	Subframe-Mainframe ASSY (see page 69)	1
33	701-00768	Mid-Mount Tiedown Assembly (see page 163)	2
34	789-05852	Tap Block	2
35	876-00071	70 GAL Tank Installation (see page 164)	1
36	N04-750C000-Y8	Nut, HEX 0.75-10, ST SQC G8	2
37	N04-750F000-Y8	Nut, HEX 0.75-16, ST SQC G8	2
38	N05-750F000-Y8	Nut, HEX JAM 0.75-16, ST SQC G8	2
39	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2
40	NYL-750F000-Y8	Nut, HX NYL-INS 0.75-16, ST SQC G8	2
41	SAE520110-12	Nut, HEX, Tubenut 12	1
42	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	3
43	SHF-750CA75-Y8	SCR, HHCS FT 0.75-10 X 1.75, ST SQC G8	2
44	T02-375CA00-P0	Stud, FT 0.375-16 X 1.00, STL	2
45	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	3
46	W07-750X000-20	WSH, LCK, MED SPLT 0.75, ST SQC	4
47	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	4
48	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	2
49	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	3

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW

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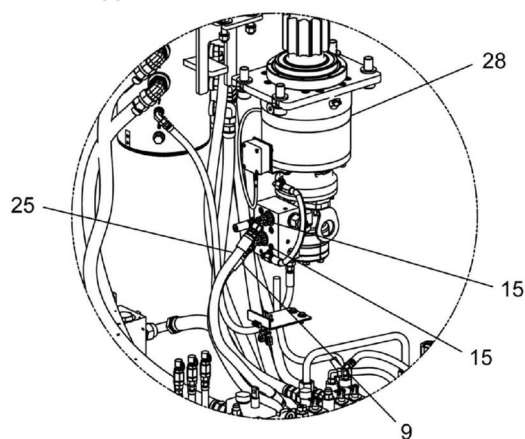
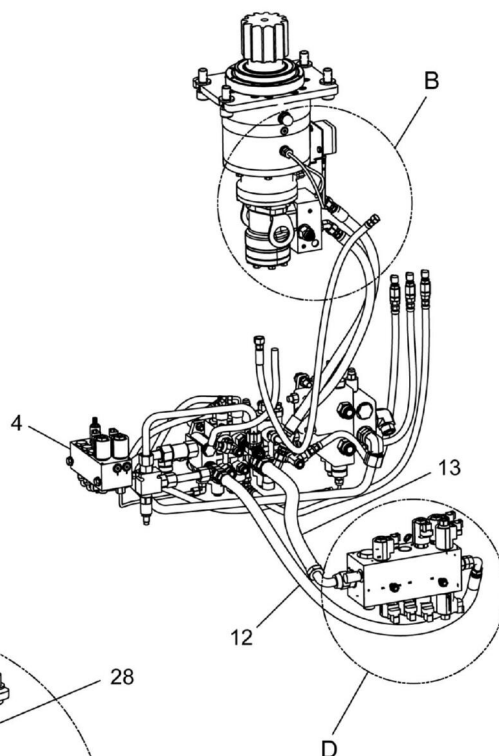
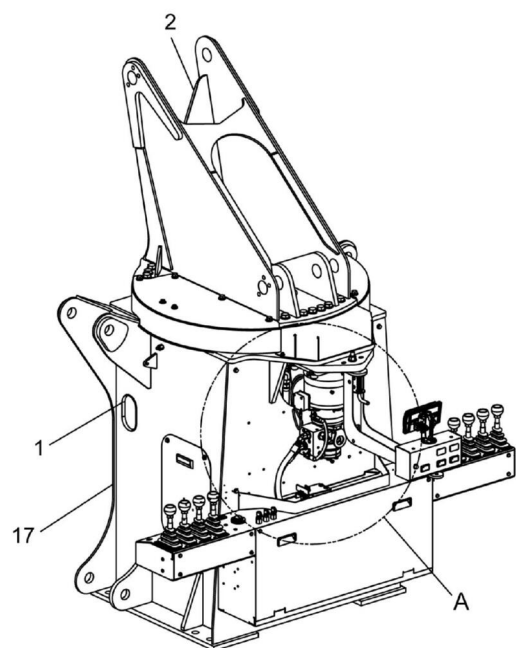
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01838-03 (Rev. J)	HYD INSTL, SUBFRM-MAINFRM	
50	WFT-750XB50-20	WSH, FNDR 0.75 X 2.50 X 0.125, ST SQC	4

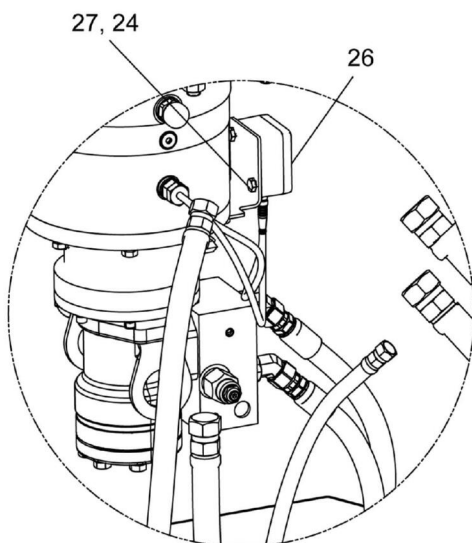
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

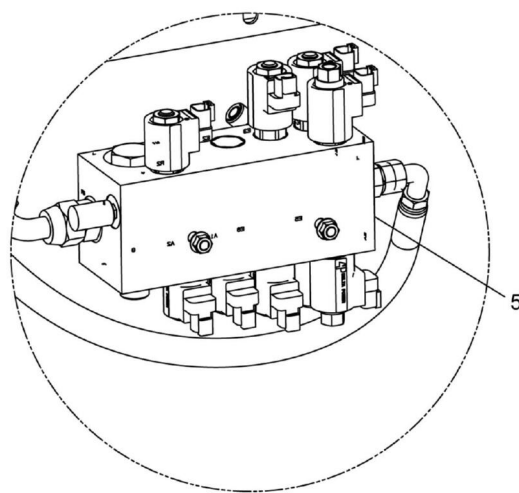
	HYDRAULIC INSTL, MAIN FRAME ASSY - NON CONTINUOUS COMBINE FLOW	DATE: Revised 04-2018	CHAPTER 1
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DETAIL A



DETAIL B



DETAIL D

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - CONTINUOUS ROT COMBINE FLOW

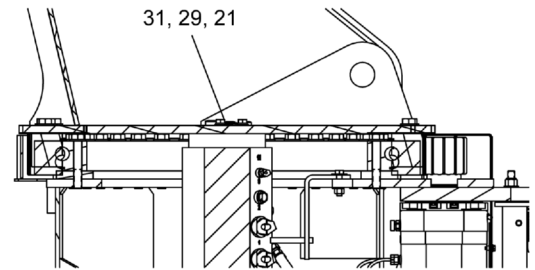
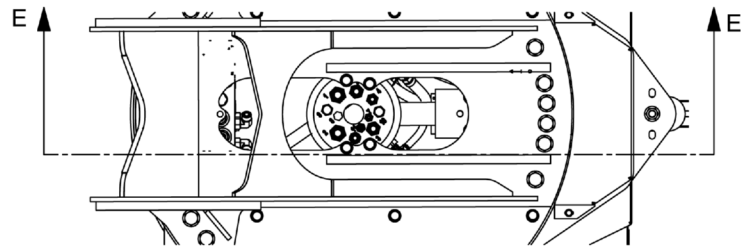
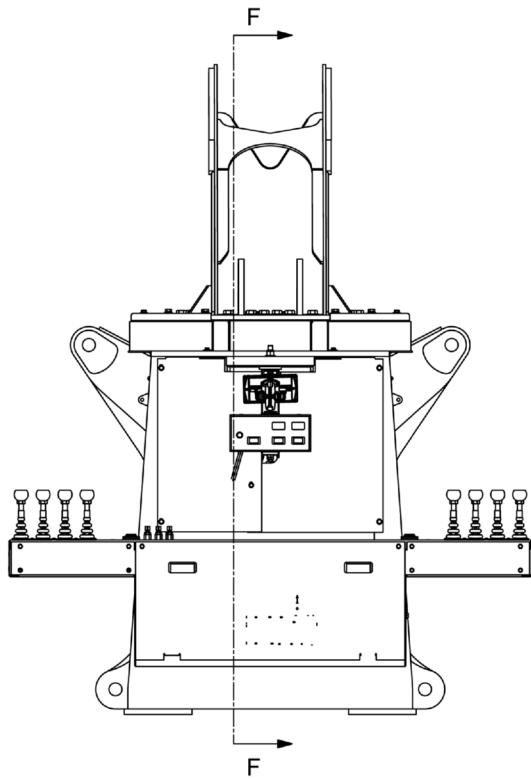
DATE: Revised 03-2018

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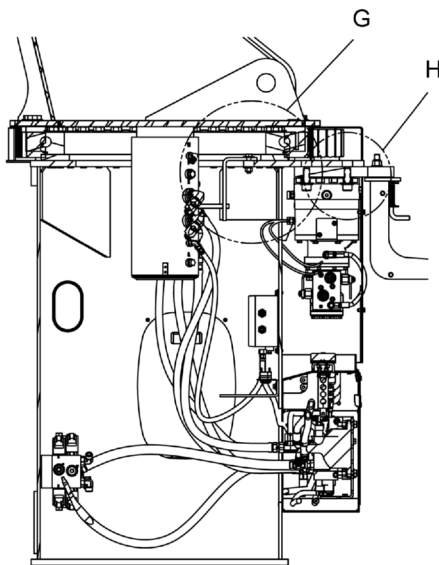
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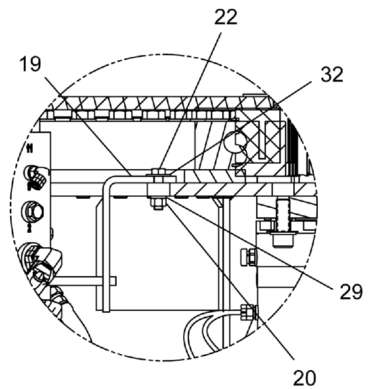
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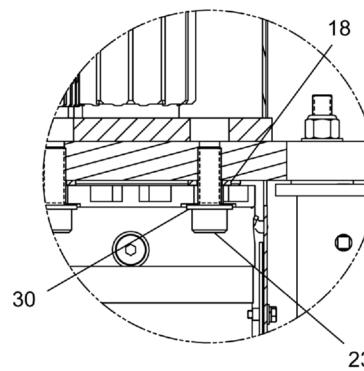
SECTION E - E



SECTION F - F



DETAIL G



DETAIL H

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - CONTINUOUS ROT COMBINE FLOW

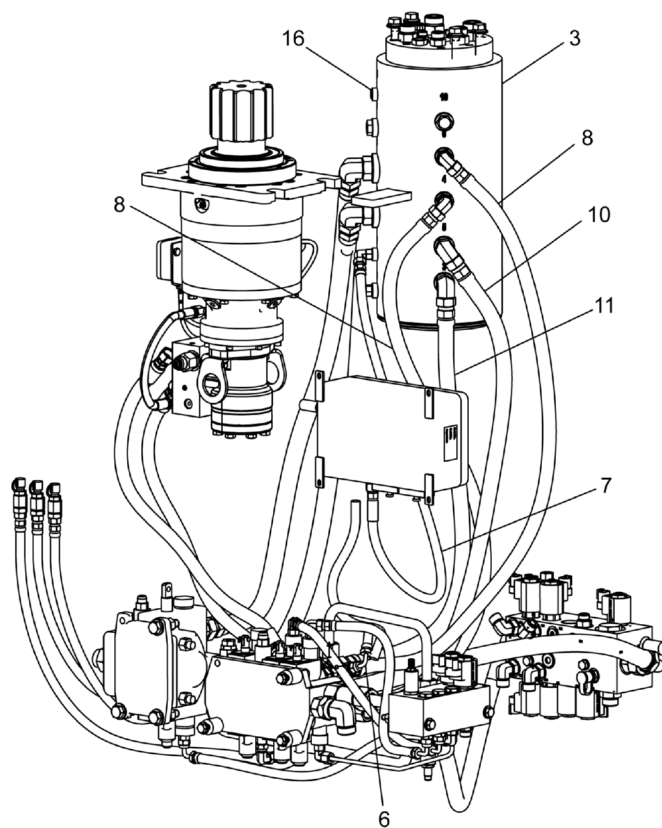
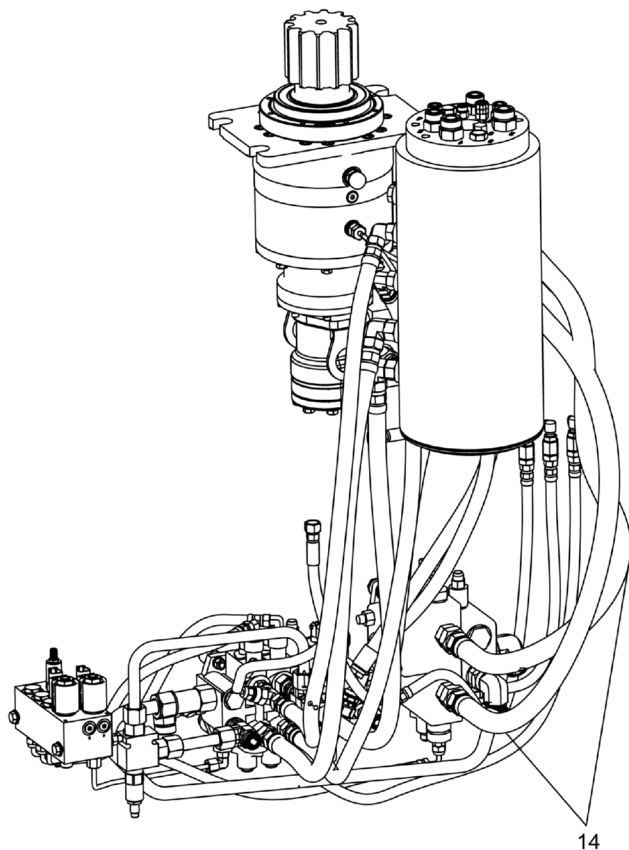
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - CONTINUOUS ROT COMBINE FLOW

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REF	PART NO.	DESCRIPTION	QTY
	500-01837-03 (Rev. G)	HYD INSTL, MNFRM-Console	
1	12169-16	Flex Trim 3/8" X 18" LONG	2
2	12169-18	Trim Flex 3/8" X 18" Long	1
3	500-01832	Hydraulic Swivel INSTL (see page 219)	1
4	500-01836-01	HYD INSTL, Console (see page 131)	1
5	500-01844	Valve SUBASSY, Outrigger (see page 142)	1
6	502-11334	Hose, Greer BM-TELE Valve	1
7	502-11337	Hose, BM Topping-Greer Lower	1
8	502-30775	Hose, BM TPNG RET. Lower	2
9	502-30779	Hose, -8, 3000, FOFs-8SW/FOFS-8SW, 625	1
10	502-35079	Hose, BM TPNG EXT. Lower	1
11	502-35081	Hose, BM TELE EXT. Lower	1
12	502-35082	Hose, Outrigger Return	1
13	502-40997	Hose, Outrigger	1
14	502-40999	Hose, Winch Lower	2
15	515-05005	Elbow, 45, MOFS-8/MORB-10	2
16	517-30005	Plug, Outrigger	1
17	695-00185	Mainframe-Console ASSY (see page 144)	REF
18	781-00336	Boss, 1.38 X 0.813 X 0.16	4
19	789-06007	Swivel Stop Arm	1
20	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	2
21	S01-500CA75-25	SCR, HHCS 0.50-13 X 1.75, ST SQC G5	4
22	S01-500CB00-25	SCR, HHCS 0.50-13 X 2.00, ST Z GR5	2
23	S14-750CB00-H2	SCR, SHCS 0.75-10 X 2.00, ST Z	4
24	SHF-250C625-25	SCR, HHCS FT 0.25-20 X 0.625, STZ G5	2
25	T133371	Hose, -8, 4000, FOFs-8SW/FOFS-8SW90, 700	1
26	T145537	Wad Sensor (see page 196)	1
27	T145587	Washer, Lock, External Tooth, 0.25	2
28	T146435	Swing Drive (OMNIGEAR) (see page 146)	1
29	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	6
30	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4
31	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	4
32	WBR-50RXA37-20	WSH, FL TYPB-REG 0.50, ST SQC	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - CONTINUOUS ROT COMBINE FLOW

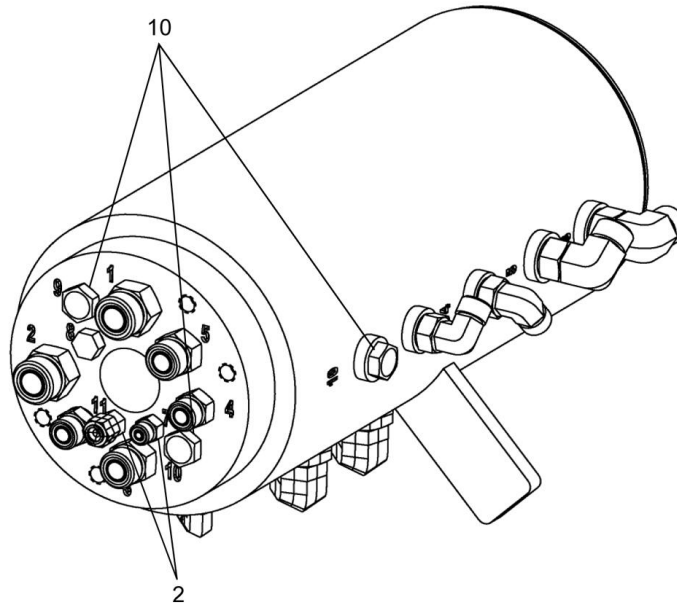
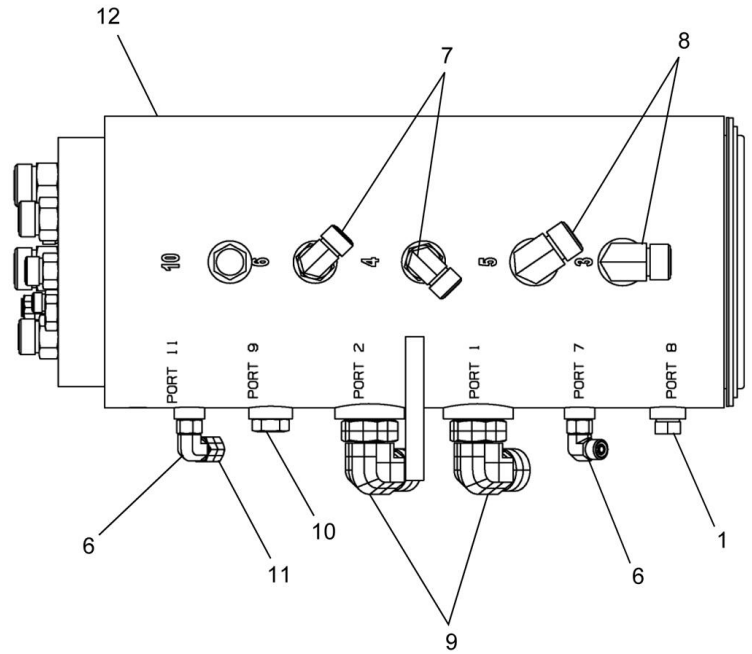
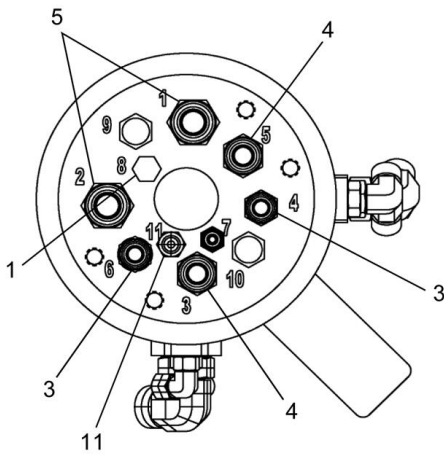
DATE: Revised 03-2018

MODEL: 19-70

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC SWIVEL INSTALLATION

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01832 (Rev. D)	<i>Hydraulic Swivel INSTL</i>	
1	1219-980	Plug, ORB-6	2
2	513-20017	Adapter, MOFS-4/MORB-4	2
3	513-50023	Adapter, MOFS-8/MORB-8	2
4	513-60008	Adapter, MOFS-10/MORB-10	2
5	513-70023	Adapter, MOFS-12/MORB-12	2
6	514-52003	Elbow, 90, MOFS-4/MORB-4	2
7	514-55011	Elbow, 90, MOFS-8/MORB-8	2
8	514-56003	Elbow, 90, MOFS-10/MORB-10	2
9	514-57010	Elbow, 90, MOFS-12/MORB-12	2
10	517-30001	Plug, HEX Head 0.50	4
11	519-20004	Cap, OFS-4	2
12	560-00072	Swivel, 11 Circuit	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC SWIVEL INSTALLATION

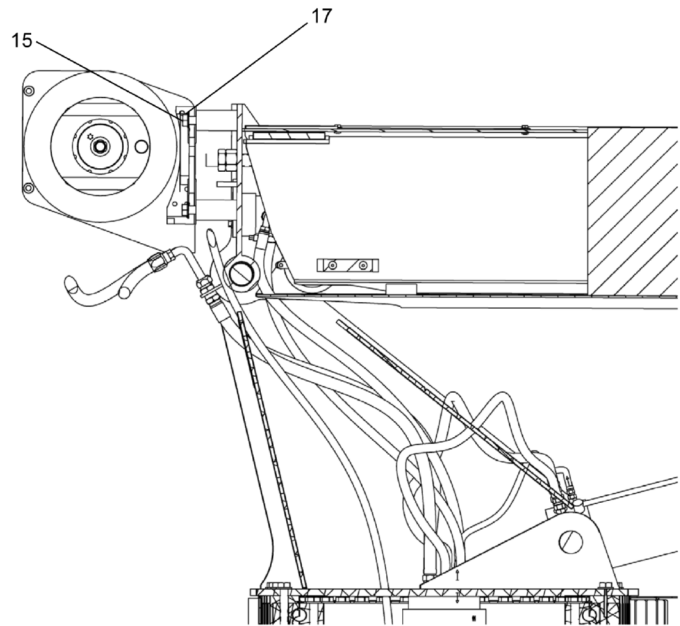
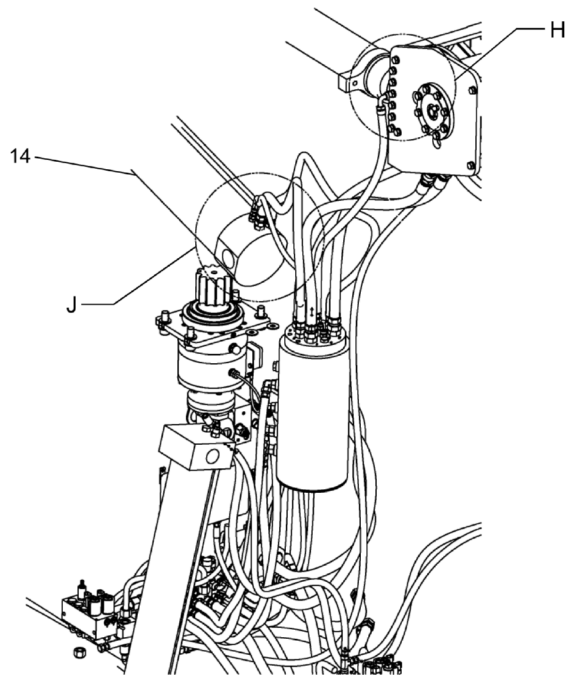
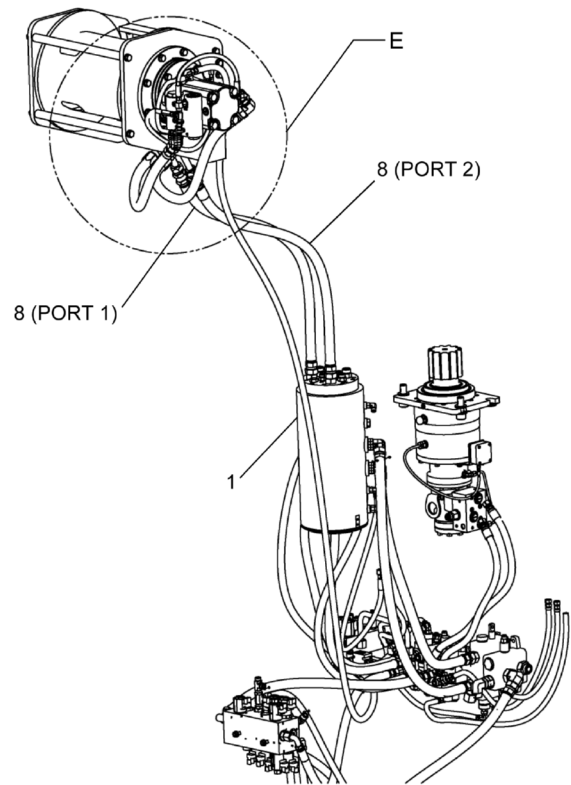
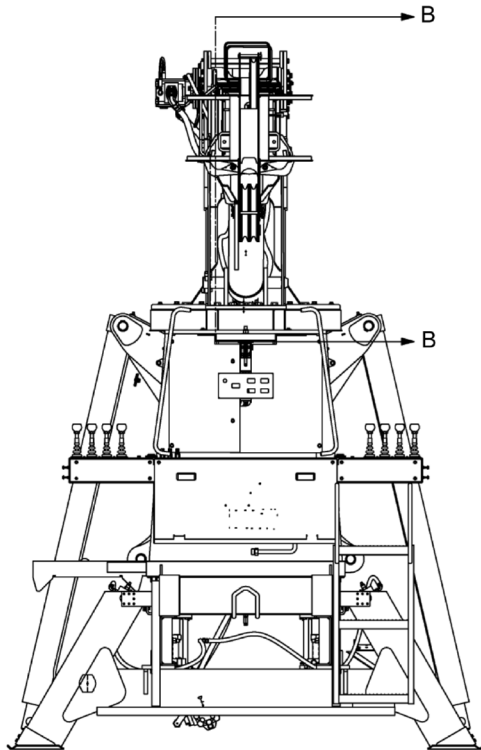
DATE: Revised 05-2017

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SECTION B-B

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, CONTINUOUS ROTATION, COMBINED FLOW (1 SPEED)

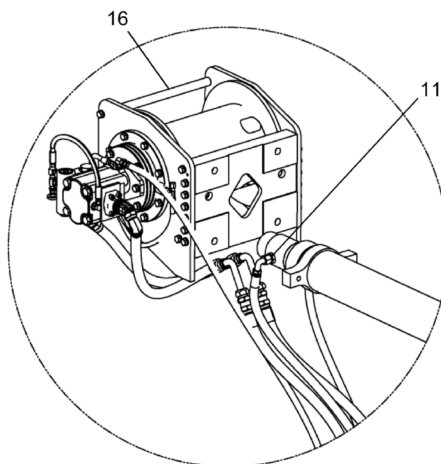
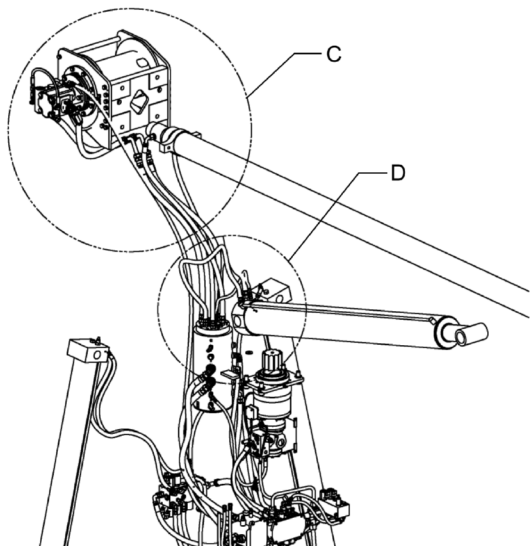
DATE: Revised 09-2017

MODEL: 19-70

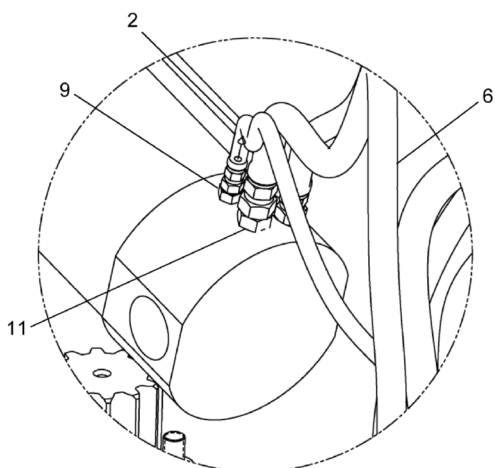
PAGE: 221

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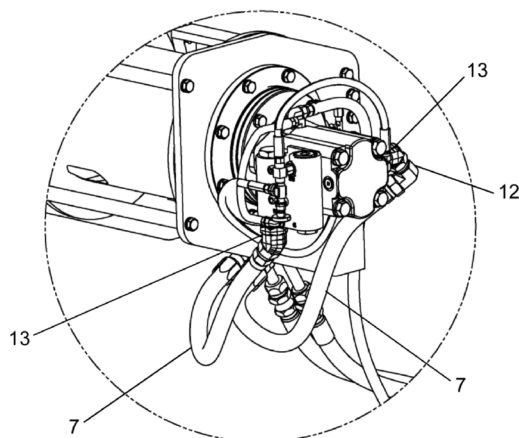
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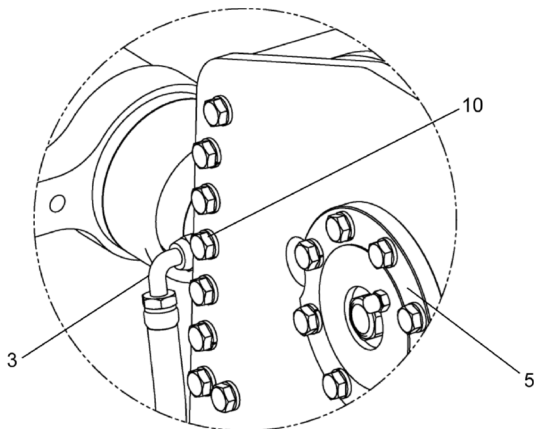
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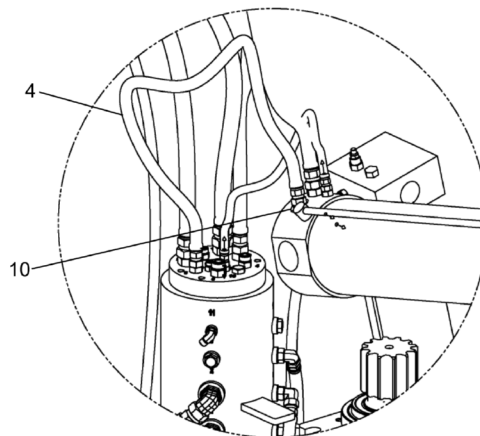
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DETAIL E



DETAIL H



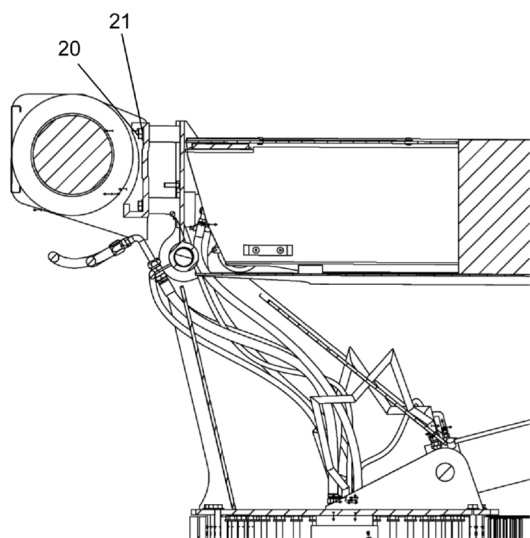
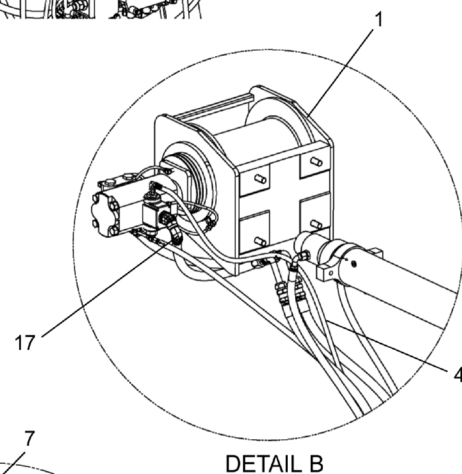
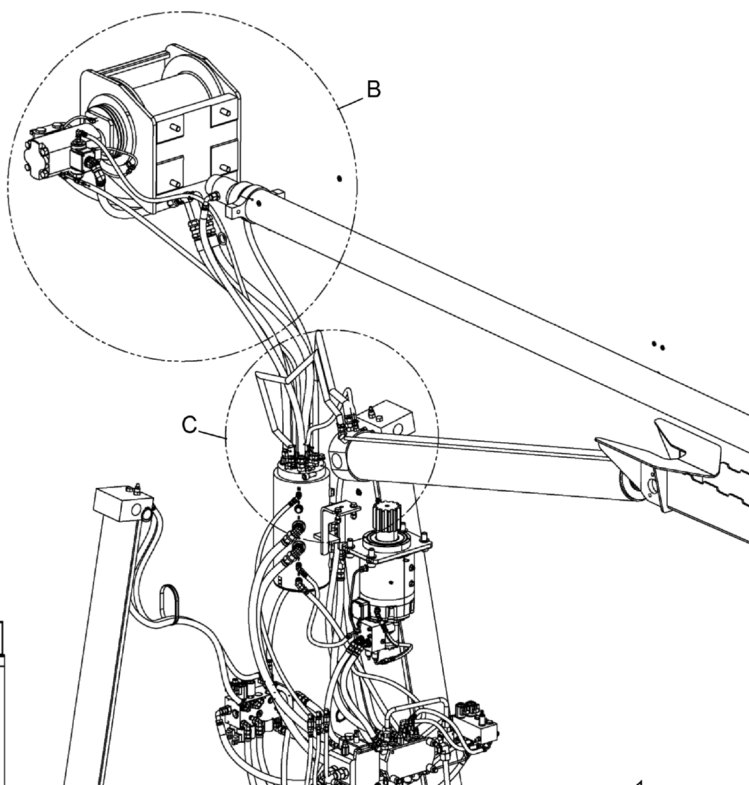
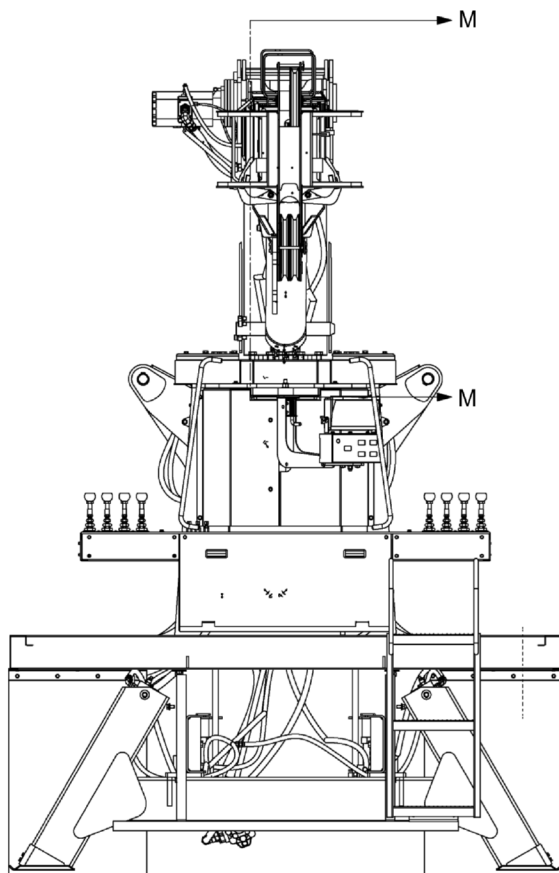
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

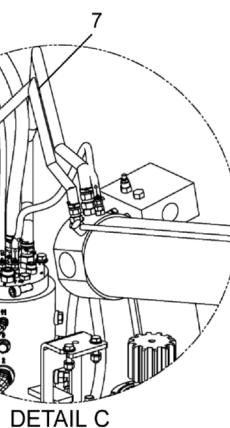
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-03 (Rev. F)	HYD INSTL, 19-70, CON - CF	
1	500-01839-03	HYD INSTL, Main O/R Non Continuous Combined Flow (see page 209) . .	1
2	502-11348	Hose ASSY, RCI/TPG CYL Upper	1
3	502-30783	Hose ASSY, Tele Retract - Upper	1
4	502-30786	Hose ASSY, TBG (RET) Upper	1
5	502-35084	Hose ASSY, Tele Extend - Upper	1
6	502-35088	Hose Assembly, Boom TPG (EXT) Upper	1
7	502-41015	Hose ASSY, Winch, Short	2
8	502-41016	Hose ASSY, Winch Swivel Upper	2
9	513-20019	Adapter, MOFS-4/MORB-6	1
10	513-50023	Adapter, MOFS-8/MORB-8	2
11	513-60008	Adapter, MOFS-10/MORB-10	2
12	514-67004	Elbow Swivel 90°	1
13	515-07003	Elbow 45°	2
14	695-10020	Structural Assembly, 19-70 (see page 61)	1
15	S01-750CB25-Y8	SCR, HHCS 0.75-10X2.25, ST YZ GR8	4
16	T145115	Winch ASSY (OMNIGEAR) (see page 118)	1
17	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYDRAULIC INSTL, CONTINUOUS ROTATION, COMBINED FLOW (1 SPEED)	DATE: Revised 09-2017	CHAPTER 1
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SECTION M-M



DETAIL A

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL CONTINUOUS ROTATION MOTOR SHIFT (2 SPEED)

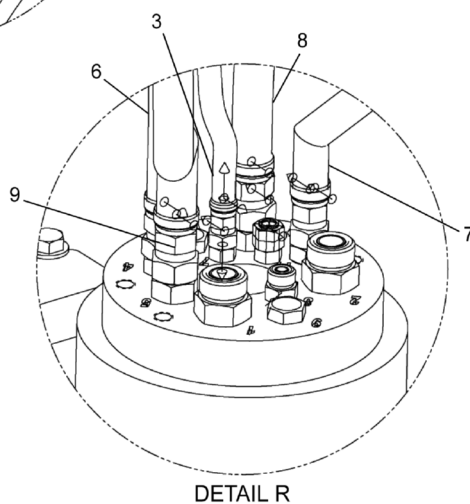
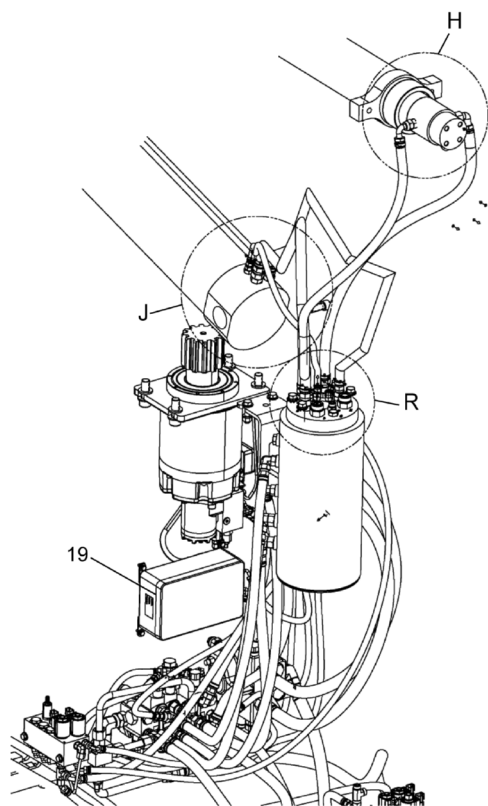
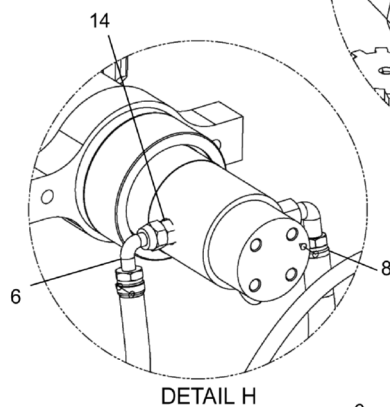
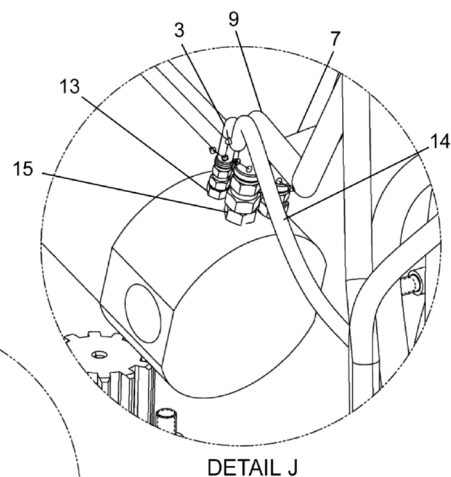
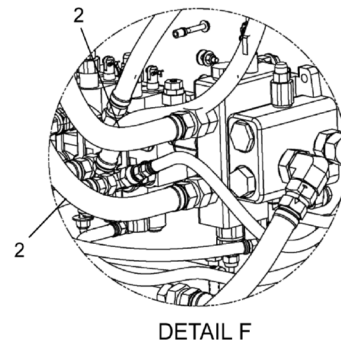
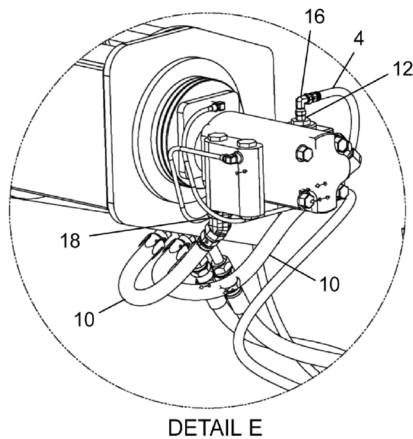
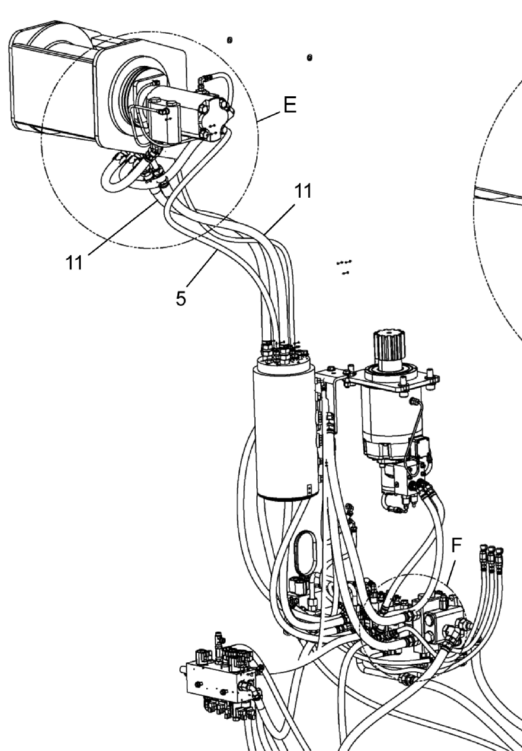
DATE: Revised 12-2013

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL CONTINUOUS ROTATION MOTOR SHIFT (2 SPEED)

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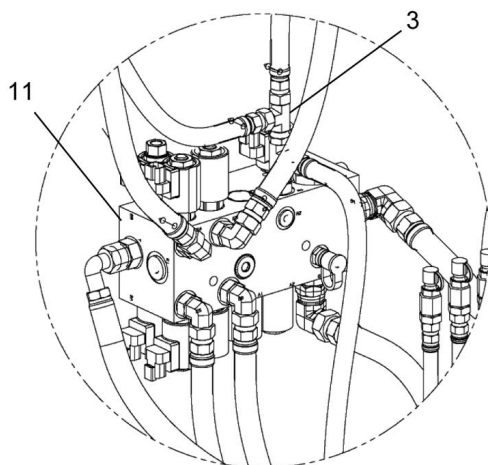
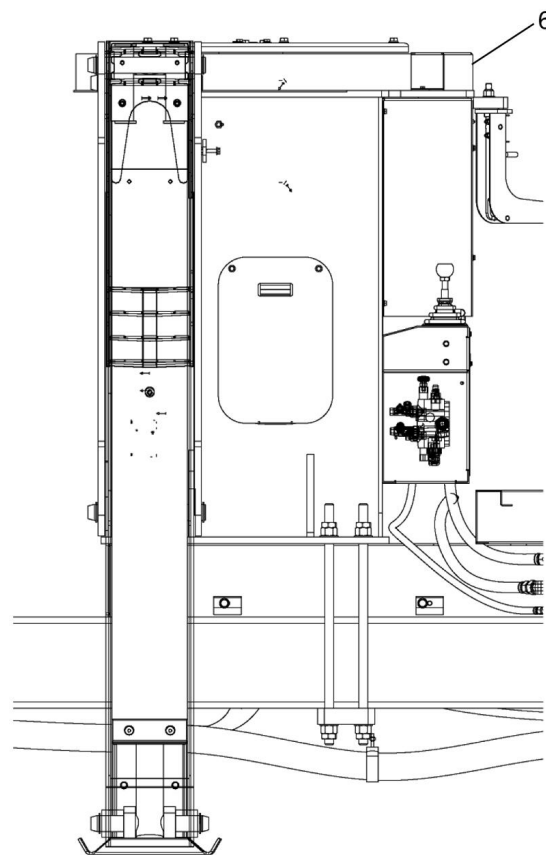
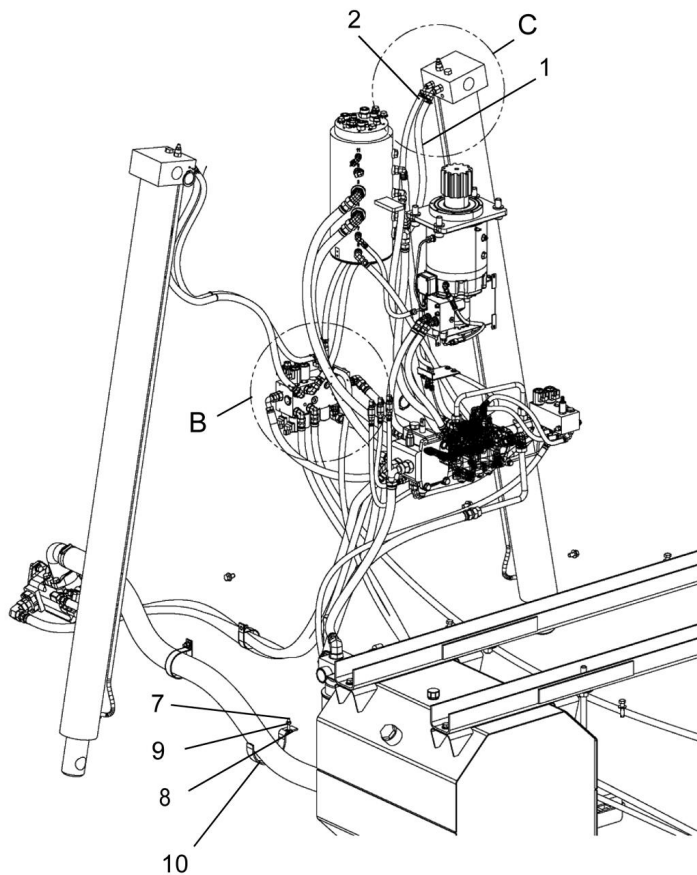
CHAPTER

1

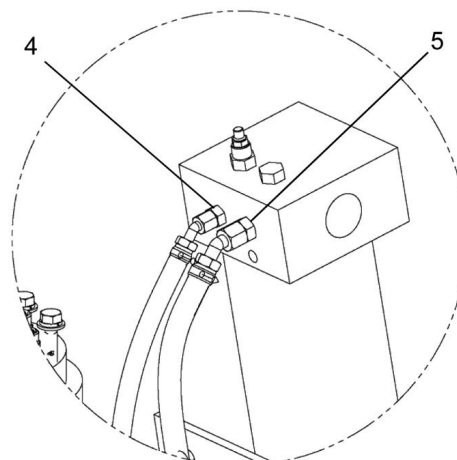
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-04 (Rev. B)	HYD INSTL, 19-70, CON - MS	
1	293-00044-2.2	Winch ASSY, 12K 2 Speed (see page 172)	1
2	500-01839-04	HYD INSTL, Main O/R Continuous Rotation Combined flow (see page 227)	1
3	502-11348	Hose ASSY, RCI/TPG CYL Upper	1
4	502-11349	Hose ASSY, 2SP Pilot Upper	1
5	502-21022	Hose, Winch MTR Drain, Upper	1
6	502-30783	Hose ASSY, Tele Retract - Upper	1
7	502-30786	Hose ASSY, TBG (RET) Upper	1
8	502-35084	Hose ASSY, Tele Extend - Upper	1
9	502-35088	Hose Assembly, Boom TPG (EXT) Upper	1
10	502-41015	Hose ASSY, Winch, Short	2
11	502-41016	Hose ASSY, Winch Swivel Upper	2
12	513-20017	Adapter, MOFS-4/MORB-4	1
13	513-20019	Adapter, MOFS-4/MORB-6	1
14	513-50023	Adapter, MOFS-8/MORB-8	2
15	513-60008	Adapter, MOFS-10/MORB-10	2
16	514-62002	Elbow, 90, MOFS-4/FOFS-4SW	1
17	514-67004	Elbow Swivel 90°	1
18	515-07003	Elbow 45°	2
19	695-10020	Structural Assembly, 19-70 (see page 61)	REF
20	S01-750CB25-Y8	SCR, HHCS 0.75-10X2.25, ST YZ GR8	4
21	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYDRAULIC INSTL CONTINUOUS ROTATION MOTOR SHIFT (2 SPEED)	DATE: Revised 12-2013	CHAPTER 1
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DETAIL B



DETAIL C

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYD INSTL, MAIN O/R, NON CONTINUOUS / CONTINUOUS ROTATION - COMBINED FLOW

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01839-04 (Rev. B)	<i>HYD INSTL, Main O/R Continuous Rotation Combined flow</i>	
1	502-30788	Hose, Main Outrigger Extend	2
2	502-21024	Hose, Main Outrigger Retract	2
3	516 -84003	Tee, Run 2X M#6 OFS X F #6 OFS	1
4	513- 40014	STR CONN M#6 OFS X M#6 ORB	2
5	513-50023	Adapter, MOFS-8/MORB-8	2
6	695-10019	Truck Attach Main Assembly (see page 66)	Ref
7	S01-312CA75-25	SCR, HHCS 0.3125 -18X1.75, ST Z G5	1
8	WAW -31WX000-20	WSH, FL TYP A -W ID 0.3125, ST Z	1
9	NYL-312C000-25	Nut, HEX NYL-INS 0.312-18, ST SQC G5	1
10	201-00119	Clamp, Hose, 2.625 DIA	1
11	500-01838-04	HYD INSTL, SUBFRM-MAINFRM (see page 229)	1

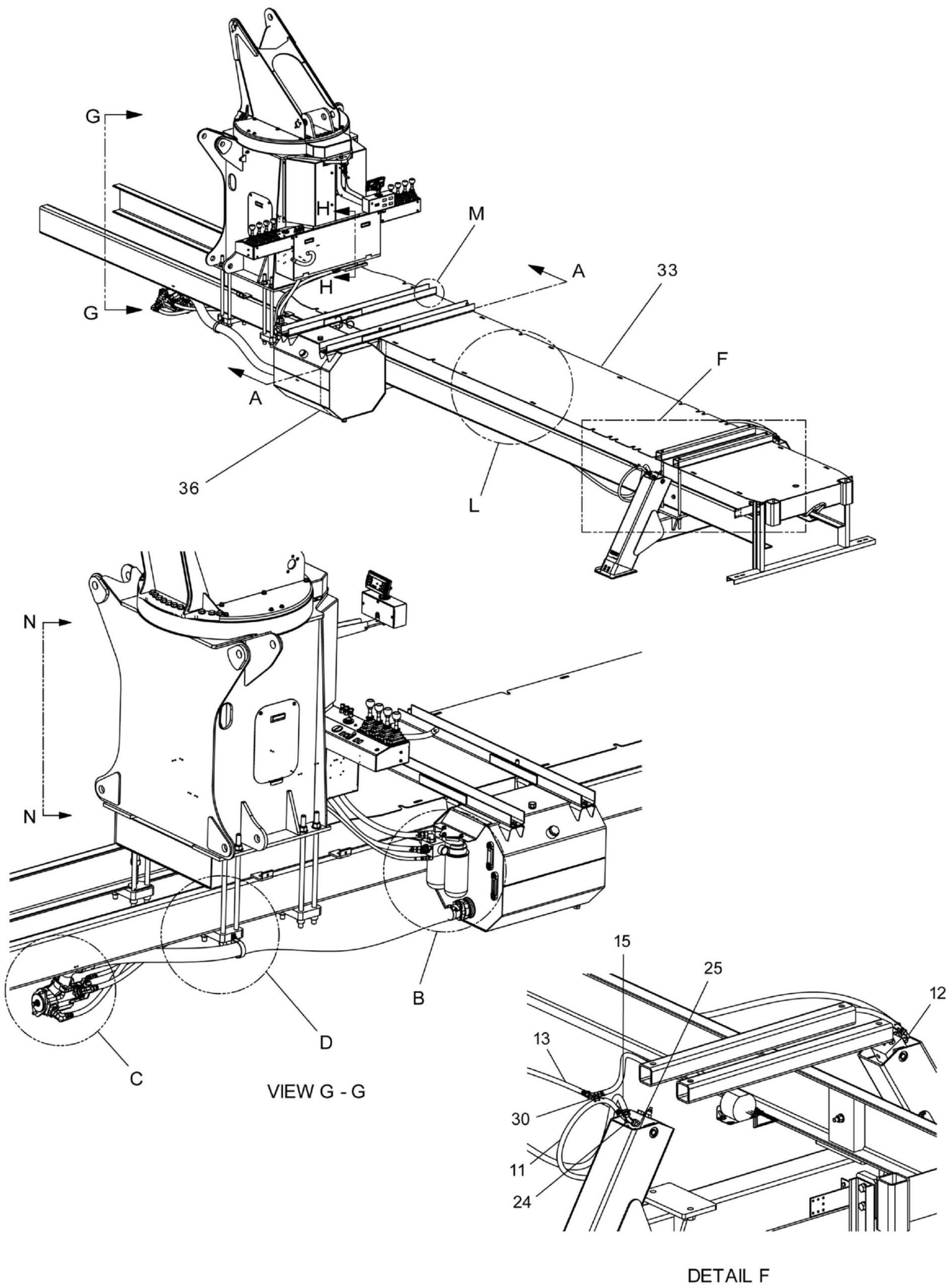
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



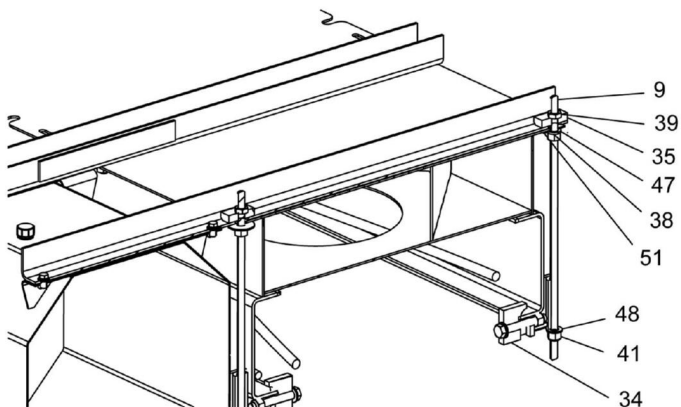
HYD INSTL, MAIN O/R, NON CONTINUOUS / CONTINUOUS ROTATION - COMBINED FLOW

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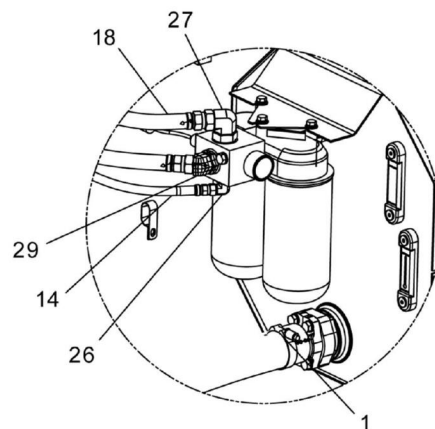
CHAPTER
1



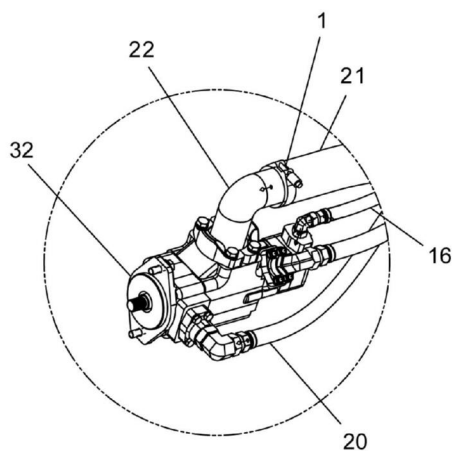
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



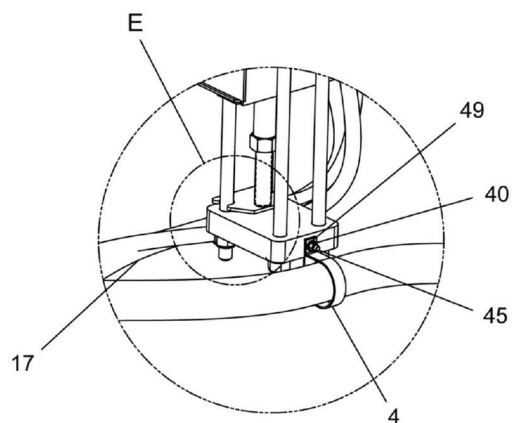
VIEW A - A



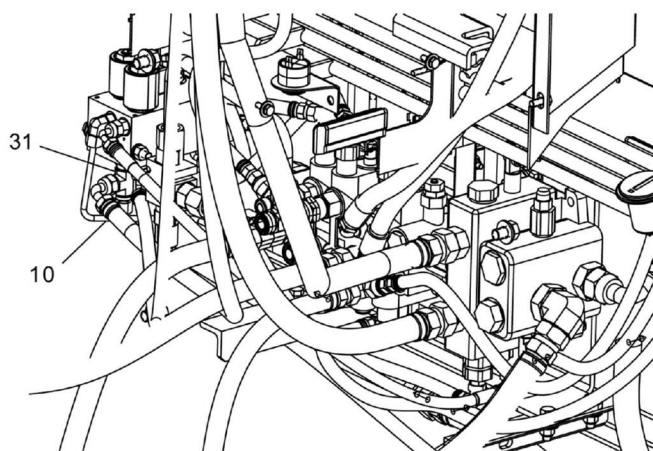
DETAIL B



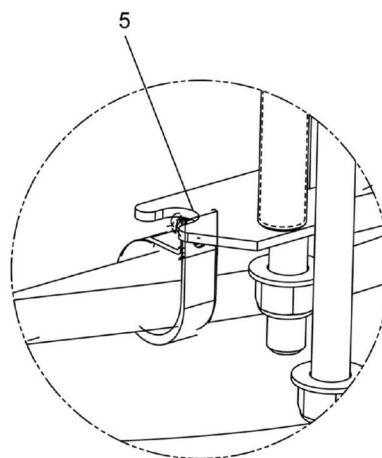
DETAIL C



DETAIL D

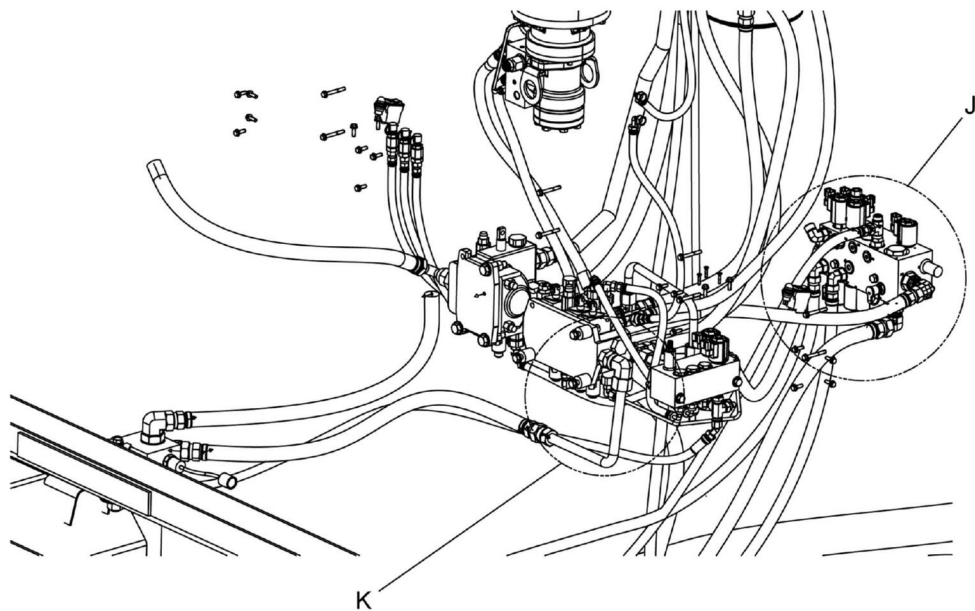


VIEW N - N

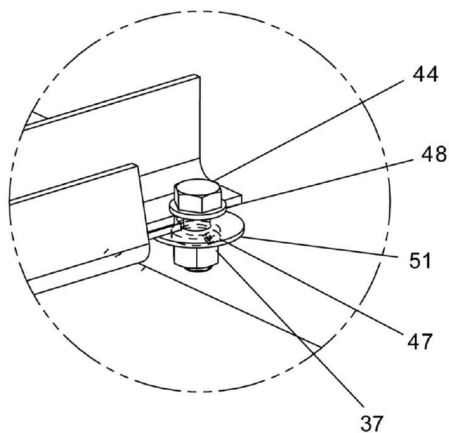


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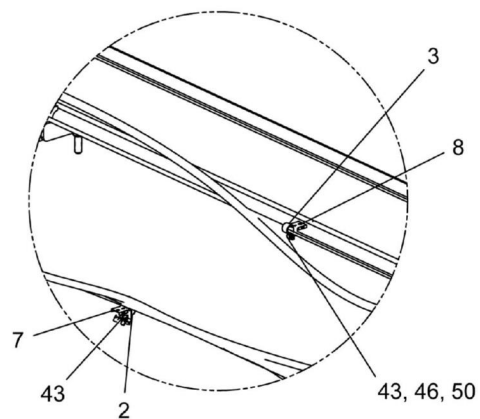
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



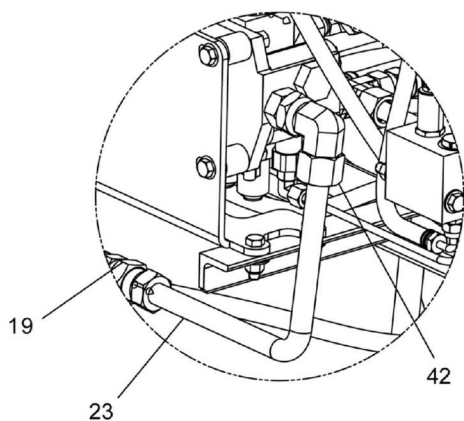
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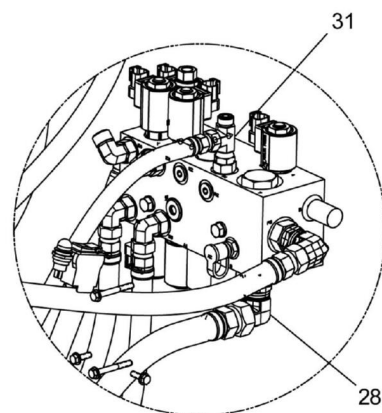
DETAIL M



DETAIL L



DETAIL K



DETAIL J

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

REF	PART NO.	DESCRIPTION	QTY
	500-01838-04 (Rev. G)	HYD INSTL, SUBFRM-MAINFRM	
1	1240-101	Clamp, T-Bolt, SAE 60	2
2	200B2007-67	Clamp, Double, MED, 0.88 ID	2
3	200B2007-7	Clamp 7/8 DIA With .41 Hole	1
4	201-00257	Clamp, 3.50 DIA	1
5	201-00258	Clamp, 2.50 DIA	1
6*	209-00804	Hose Protector (HP8-B)	1
7	209-00879	Frame Clip Caddy, DBLE	2
8	209-00880	Frame Clip Caddy, SNGL	1
9	220-07056	Tie Rod	2
10	500-01837-04	HYD INSTL, MNFRM-Console (see page 234)	1
11	502-21016	Hose, AUX Outrigger SS RET	1
12	502-21017	Hose, AUX OUTRIG CS RET	1
13	502-21018	Hose, Front Outrigger	1
14	502-21025	Hose, LMI Return	1
15	502-30770	Hose, AUX Outrigger Extend	2
16	502-30782	Hose, Pump to Main Valve	1
17	502-41011	Hose Pump Valve	1
18	502-41017	Hose, Winch Return	1
19	502-41018	Hose, Main Valve Return	1
20	502-41019	Hose, Pump-Winch Valve	1
21	503-06008	Hose, Pump Inlet	1
22	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1
23	510-70844	Tube, Main Valve Return	1
24	513-40014	Adapter, MOFS-6/MORB-6	2
25	513-50023	Adapter, MOFS-8/MORB-8	2
26	514-55020	Elbow, 90, MOFS-6/MORB-8	1
27	514-59023	Elbow, 90, MOFS-12/MORB-16	1
28	514-66004	Elbow, 90, MOFS-10/FOFS-10SW	1
29	515-07003	Elbow 45°	1
30	516-44002	Tee, MOFS-6/MOFS-6/MOFS-6	1
31	516-84003	Tee, MOFS-6/FOFS-6SW/MOFS-6	2
32	521-00084-7	Hose Kit, 8 Bolt PTO (see page 158)	REF
33	695-10018	Subframe-Mainframe ASSY (see page 69)	REF
34	701-00768	Mid-Mount Tiedown Assembly (see page 163)	2
35	789-05852	Tap Block	2
36	876-00071	70 GAL Tank Installation (see page 164)	1
37	N04-750C000-Y8	Nut, HEX 0.75-10, ST SQC G8	2
38	N04-750F000-Y8	Nut, HEX 0.75-16, ST SQC G8	2
39	N05-750F000-Y8	Nut, HEX JAM 0.75-16, ST SQC G8	2
40	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2
41	NYL-750F000-Y8	Nut, HX NYL-INS 0.75-16, ST SQC G8	2
42	SAE520110-12	Nut, HEX, Tubenut 12	REF
43	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	2
44	SHF-750CA75-Y8	SCR, HHCS FT 0.75-10 X 1.75, ST SQC G8	2
45	T02-375CA00-P0	Stud, FT 0.375-16 X 1.00, STL	2
46	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	4
47	W07-750X000-20	WSH, LCK, MED SPLT 0.75, ST SQC	4
48	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	4
49	WAN-37NX000-20	WSH, FL TYP A-NRW 0.375, ST Z	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTALLATION, SUBFRAME - MAINFRAME

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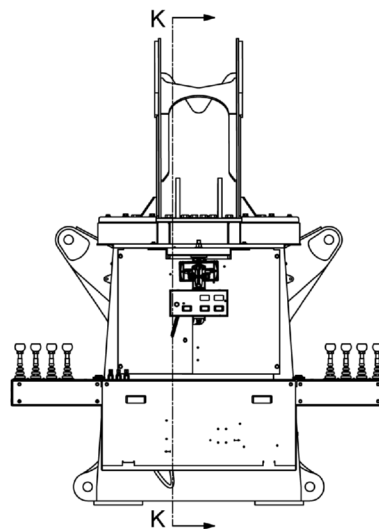
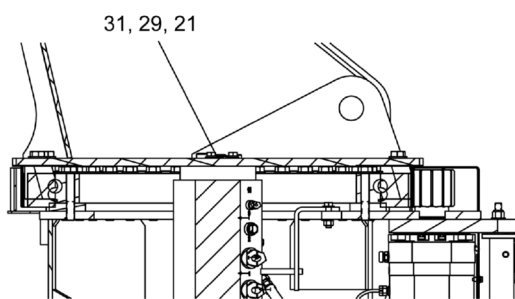
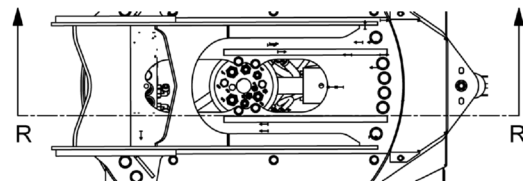
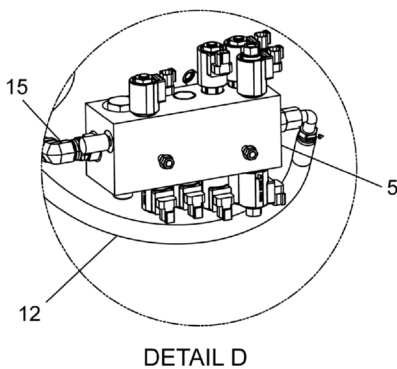
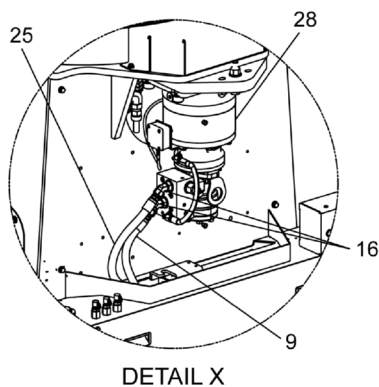
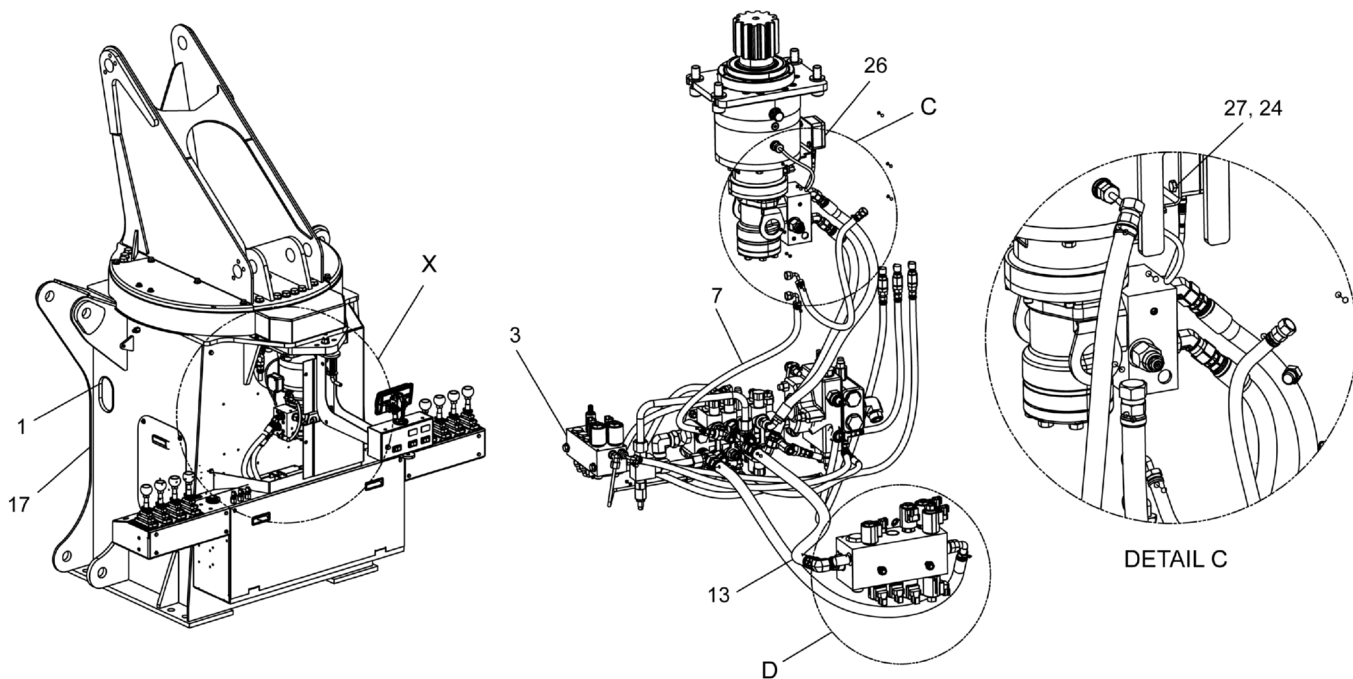
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01838-04 (Rev. G)	HYD INSTL, SUBFRM-MAINFRM	
50	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	2
51	WFT-750XB50-20	WSH, FNDR 0.75 X 2.50 X 0.125, ST SQC	4

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	HYDRAULIC INSTALLATION, SUBFRAME - MAINFRAME	DATE: Revised 04-2018	CHAPTER 1
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - CONTINUOUS ROT MOTOR SHIFT

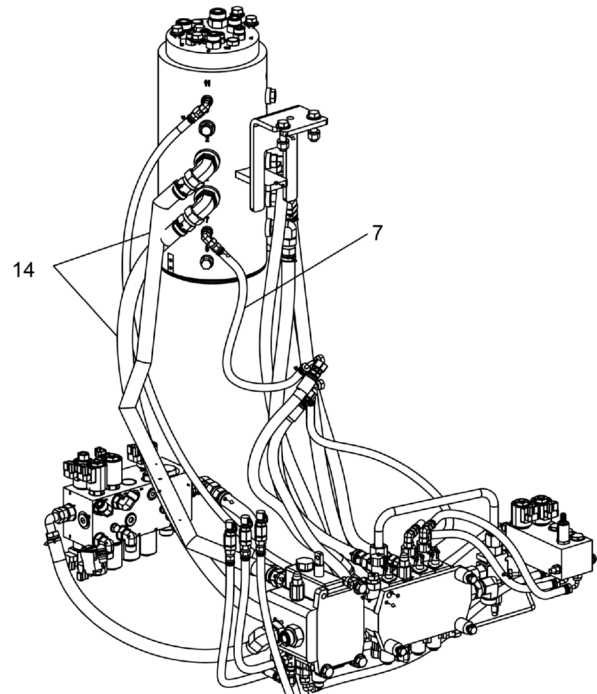
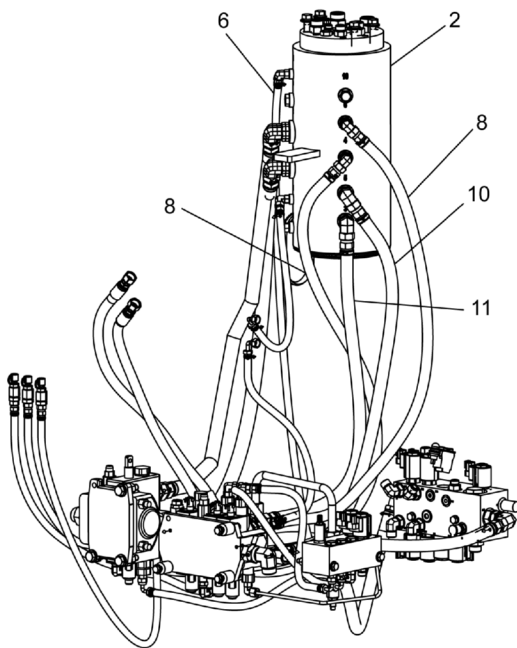
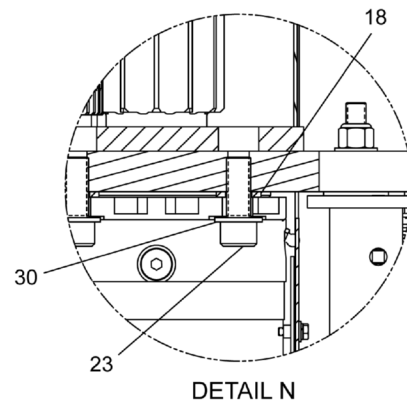
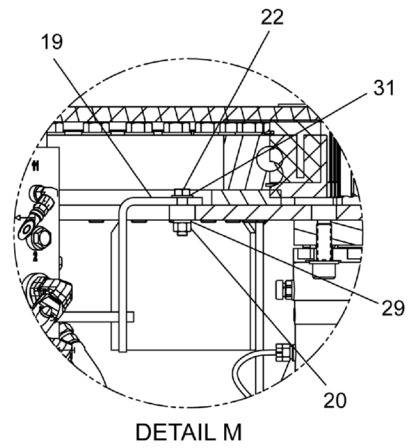
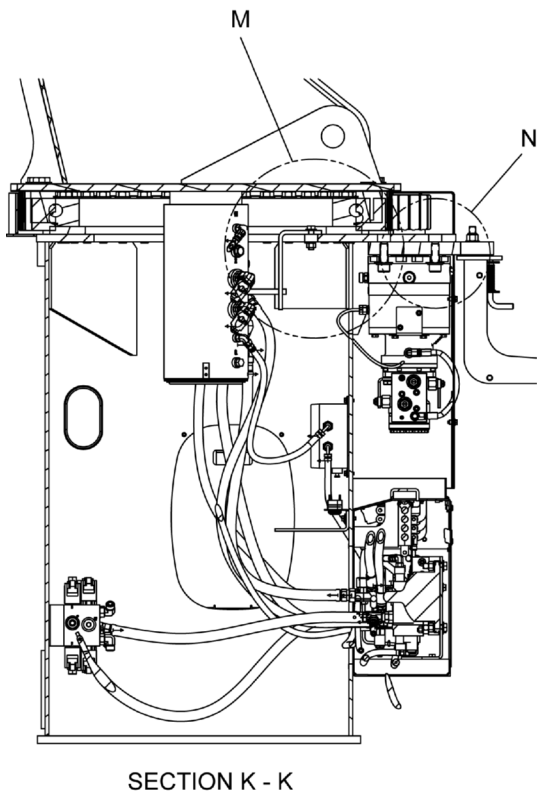
DATE: Revised 03-2018

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - CONTINUOUS ROT MOTOR SHIFT

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REF	PART NO.	DESCRIPTION	QTY
	500-01837-04 (Rev. H)	HYD INSTL, MNFRM-Console	
1	12169-16	Flex Trim 3/8" X 18" LONG	3
2	500-01832	Hydraulic Swivel INSTL (see page 219)	1
3	500-01836-04	HYD Install, Console (see page 191)	1
4*	500-01843	Center Post Install CONT ROT (see page 237)	1
5	500-01844	Valve SUBASSY, Outrigger (see page 142)	1
6	502-11342	Hose, Motor Shift Control, Low	1
7	502-11351	Hose, HYD RCI Topping Rod Base	2
8	502-30775	Hose, BM TPNG RET. Lower	2
9	502-30779	Hose, -8, 3000, FOFS-8SW/FOFS-8SW, 625	1
10	502-35079	Hose, BM TPNG EXT. Lower	1
11	502-35081	Hose, BM TELE EXT. Lower	1
12	502-35082	Hose, Outrigger Return	1
13	502-35091	Hose OR PB-Boom	1
14	502-40999	Hose, Winch Lower	2
15	514-66004	Elbow, 90, MOFS-10/FOFS-10SW	1
16	515-05005	Elbow, 45, MOFS-8/MORB-10	2
17	695-00185	Mainframe-Console ASSY (see page 144)	REF
18	781-00336	Boss, 1.38 X 0.813 X 0.16	4
19	789-06007	Swivel Stop Arm	1
20	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	2
21	S01-500CA75-25	SCR, HHCS 0.50-13 X 1.75, ST SQC G5	4
22	S01-500CB00-25	SCR, HHCS 0.50-13 X 2.00, ST Z GR5	2
23	S14-750CB00-H2	SCR, SHCS 0.75-10 X 2.00, ST Z	4
24	SHF-250C625-25	SCR, HHCS FT 0.25-20 X 0.625, STZ G5	2
25	T133371	Hose, -8, 4000, FOFS-8SW/FOFS-8SW90, 700	1
26	T145537	Wad Sensor (see page 196)	1
27	T145587	Washer, Lock, External Tooth, 0.25	2
28	T146435	Swing Drive (OMNIGEAR) (see page 146)	1
29	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	6
30	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	4
31	WAN-50NX000-20	WSH, FL TYPA-NRW 0.50, ST SQC	6

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC INSTL, MAIN FRAME ASSY - CONTINUOUS ROT MOTOR SHIFT

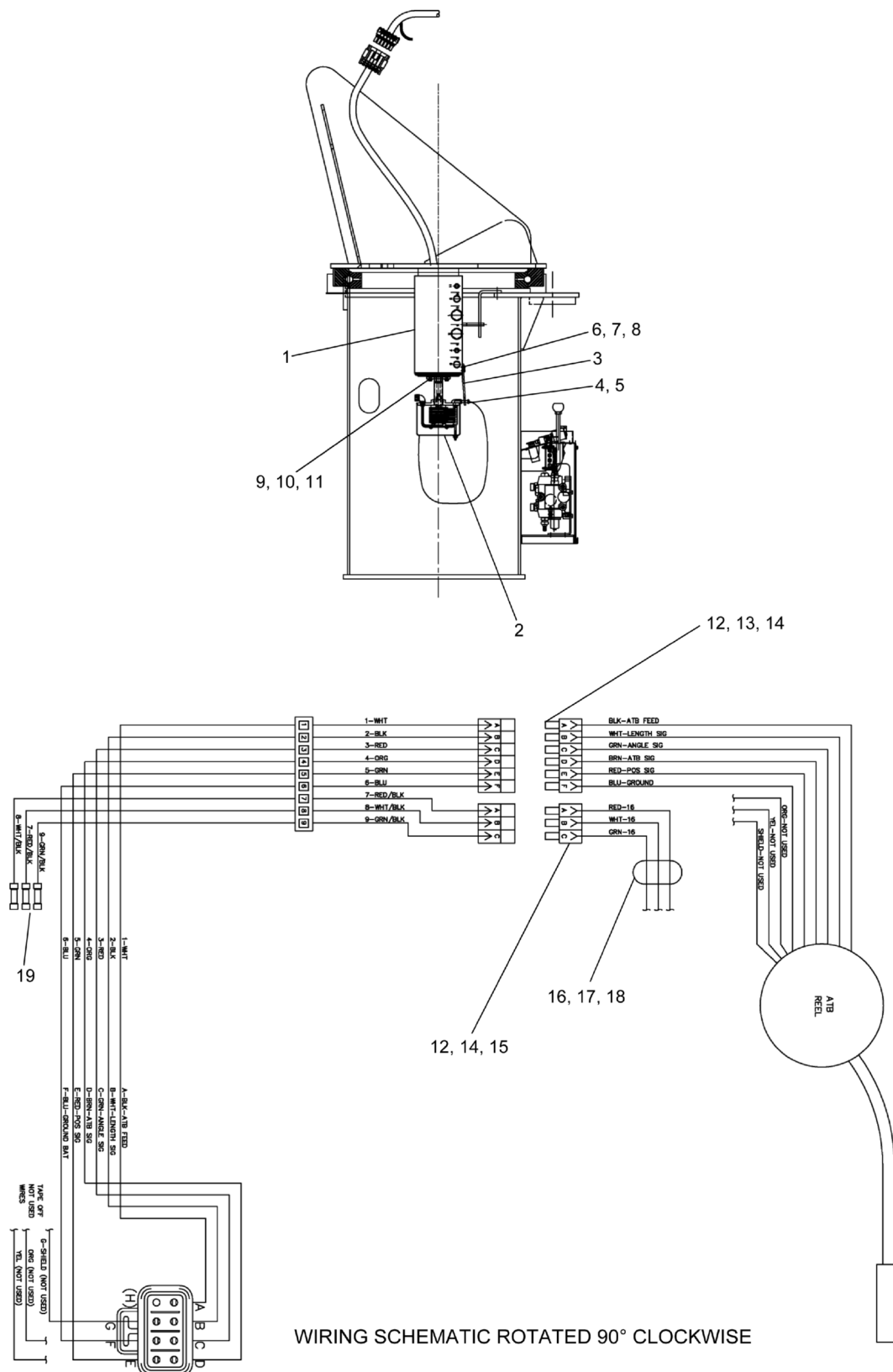
DATE: Revised 03-2018

MODEL: 19-70

PAGE: 236

CHAPTER

1



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CENTER POST INSTALLATION CONT ROT

DATE: Revised 12-2013

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01843 (Rev. 00)	<i>Center Post Install CONT ROT</i>	
1	560-00072	Swivel, 11 Circuit	REF
2	400-17094	Collector Ring 9	1
3	789-05904	Arm, Collector Ring Stop	1
4	220-02070-33	HHCS .375-16 X 2.25 GR5 Zinc	1
5	221-00027-3	HEX Nut .375-16 Zinc PLTD	1
6	220-00045-13	HHCS .25-20 X 1.00 GR5 Zinc	2
7	222-00025-6	Flatwasher .25 Zinc PLTD	2
8	222-00028-9	Lockwasher .25 Zinc PLTD	2
9	220-02070-13	HHCS .38-16 X 1.00 GR5 Zinc	2
10	222-00025-8	Flat Washer, 3/8 Zinc PLTD	2
11	222-00028-11	Lockwasher .38 Zinc PLTD	2
12	400-23407	FEM TERM, 12/14GA PKD W/PAK (01107)	9
13	400-23460	CONN, 6 POS FEM Pins PKD (01107)	1
14	400-23191	Seal, PKD WPK 14/16GA (01107)	18
15	400-23367	CONN, PKD WKD 3 POS FEM Pins (01107)	1
16	400-01376	Wire, FLM RET 16 GA Red (00790)	0.5 FT
17	400-01379	Wire, FLM RET 16 GA WHT (00790)	0.5 FT
18	400-01375	Wire, FLM RET 16 GA GRN (00790)	0.5 FT
19	400-02343	Butt CONN W/HT Shrink 14/16GA	3

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



CENTER POST INSTALLATION CONT ROT

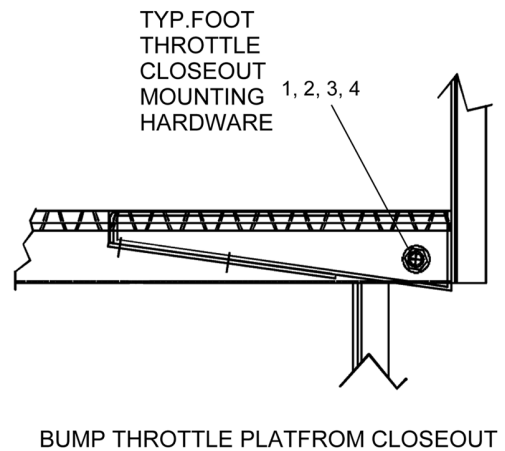
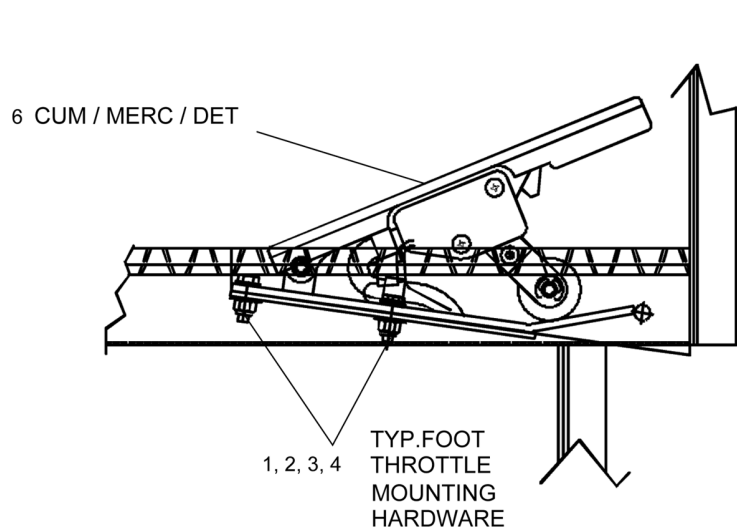
DATE: Revised 12-2013

MODEL: 19-70

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REF	PART NO.	DESCRIPTION	QTY
	400-14032-1 (Rev. G)	Throttle Instl Option	
1	SHF-250CA00-25	SCR, HHCS FT 0.25-20X1.00, ST Z G5	2
2	WAN-25NX000-20	WSH, FL TYP A-NRW 0.25, ST SQC	4
3	WFD-250XA50-20	WSH, FND R 0.25 X 1.50, ST SQC	2
4	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	2
5*	400-25215	Dual Throttle Harness	1
6	300-00501	Williams Control Throttle Pedal (see page 240)	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



THROTTLE INSTALLATION OPTION (CUMMINS / MERCEDES / DETROIT)

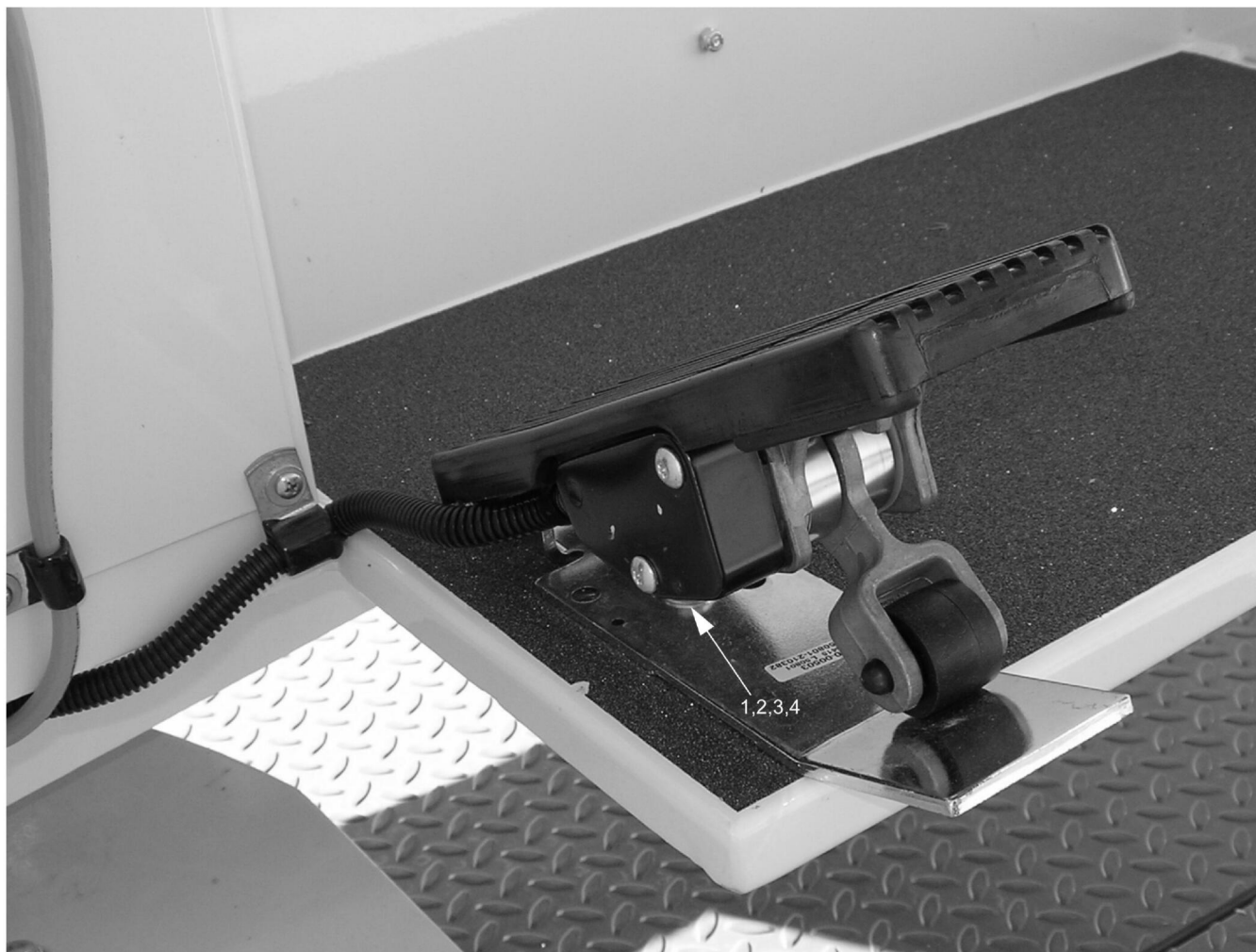
DATE: Revised 11-2016

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CHAPTER

1



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	300-00501 (Rev. C)	<i>Williams Control Throttle Pedal</i>	
	224860	Service Potentiometer	REF
1	220-00003	Bolt, HEX HD 1/4 NC x 3/4 LG.	2
2	221-00001	Nut HEX 1/4-20NC PLTD	2
3	222-00006	Flatwasher 1/4	4
4	222-10005	Lock Washer, 1/4 Dia PLTD	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ELECTRIC THROTTLE PEDAL INSTALLATION (CUMMINS)

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1

BUMP THROTTLE
DECAL WHEN REQUIRED

7,6

BUMP THROTTLE
DECAL WHEN REQUIRED

7,6

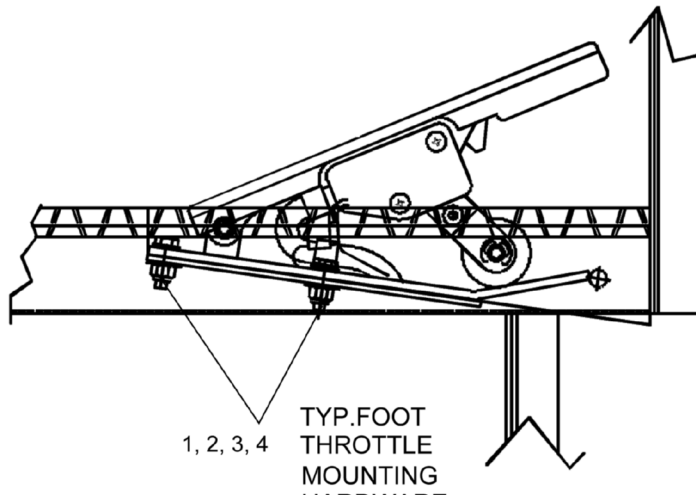
TYP.FOOT
THROTTLE
CLOSEOUT
MOUNTING
HARDWARE

1, 2, 3, 4

8
FOOT
THROTTLE
CLOSEOUT

BUMP THROTTLE PLATFROM CLOSEOUT

FOR CAT ENGINE INSTALL THROTTLE SWITCH FAR RIGHT SIDE
SWITCH OPENING



1, 2, 3, 4

TYP.FOOT
THROTTLE
MOUNTING

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



BUMP THROTTLE INSTALLATION OPTION

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	400-14032-4 (Rev. G)	<i>Throttle Instl Option</i>	
1	SHF-250CA00-25	SCR, HHCS FT 0.25-20X1.00, ST Z G5	2
2	WAN-25NX000-20	WSH, FL TYP A-NRW 0.25, ST SQC	4
3	WFD-250XA50-20	WSH, FNDR 0.25 X 1.50, ST SQC	2
4	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	2
5*	400-25224	Dual Throttle Harness	1
6	651-00475	Throttle Decal (Bump)	2
7	1223-1036	Throttle Switch	2
8	T114592	Foot Throttle Closeout (Bump)	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	BUMP THROTTLE INSTALLATION OPTION	DATE: Revised 11-2016	CHAPTER 1
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T129697 (Rev. A)	<i>Swing Cut-Out Kit</i>	
1	514-55011	Elbow, 90, MOFS-8/MORB-8	2
2	514-55020	Elbow, 90, MOFS-6/MORB-8	1
3	1219-624	Plug	1
4	516-85004	TEE, MOFS-8/FOFS-8SW/MOFS-8	1
5	516-85005	Tee, ORB Port	1
6	516-90010	Tee, Swivel	1
7	T128207	Swing Control Valve	1
8	502-30780	-8 HOSE	1
9	502-30779	Hose, -8, 3000, FOFS-8SW/FOFS-8SW, 625	1
10	T129629	-8 HOSE	1
11	T128914	Weld Plate	2
12	T128916	Limit Plate	2
13	T128915	Guide Plate	2
14	442-2201	Switch	2
15	S14-190C625-H2	SCR, SHCS 10-24 X 0.625, ST Z	4
16	S14-250C750-H2	SCR, SHCS 0.25-20 X 0.75, ST Z	4
17	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	4
18	WMF-60MX000-20	WSH, Flat M6 DIN125, ST Z	4
19	S01-250CB00-25	Valve Bolt	2
20	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	4
21	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	2
22	T129695	Wire Harness	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SWING CUT - OUT KIT

DATE: Released 12-2013

MODEL: 19-70

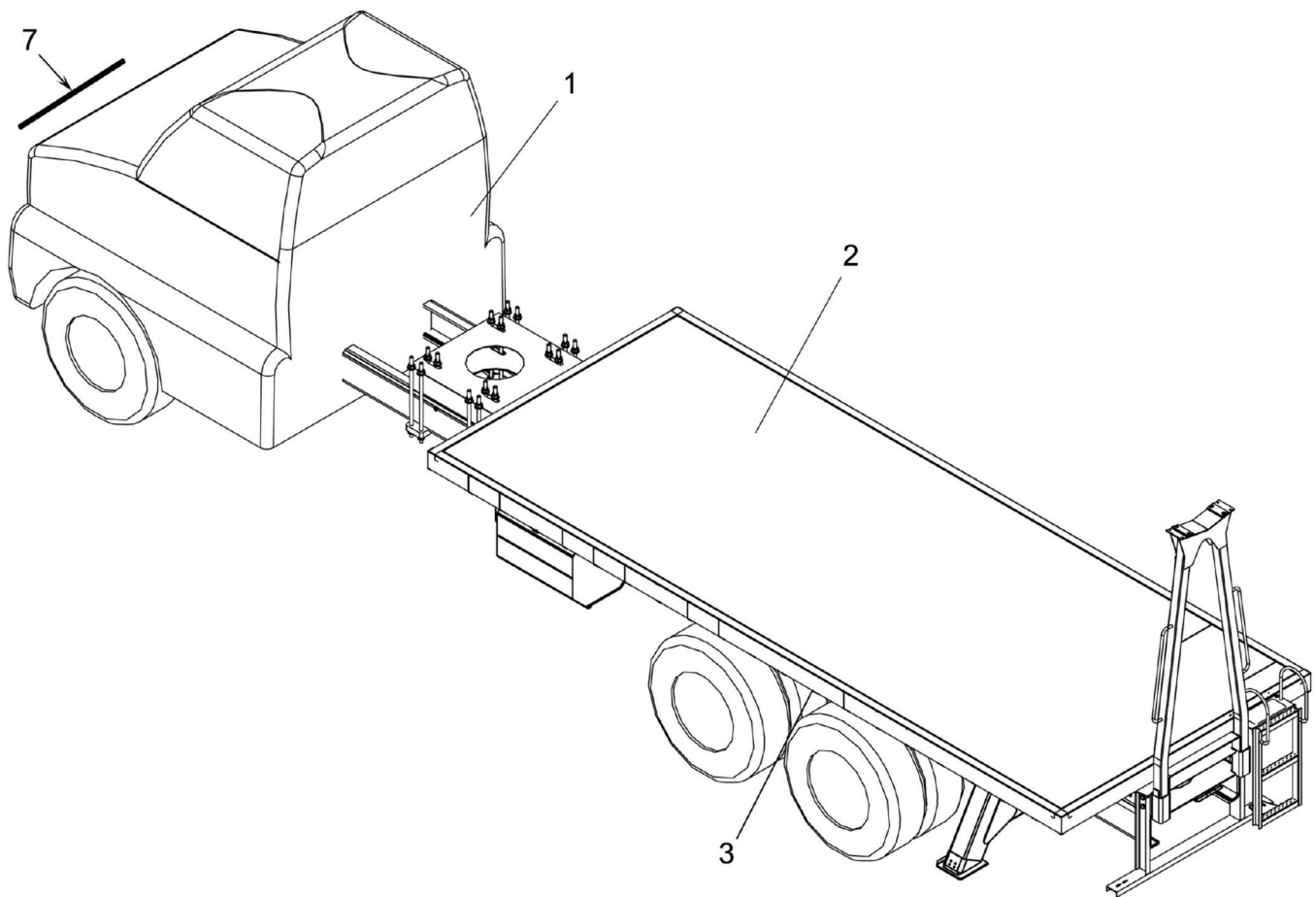
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CHAPTER NO. 2

19-70 LOWER STRUCTURE



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



19-70 LOWER STRUCTURE

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2

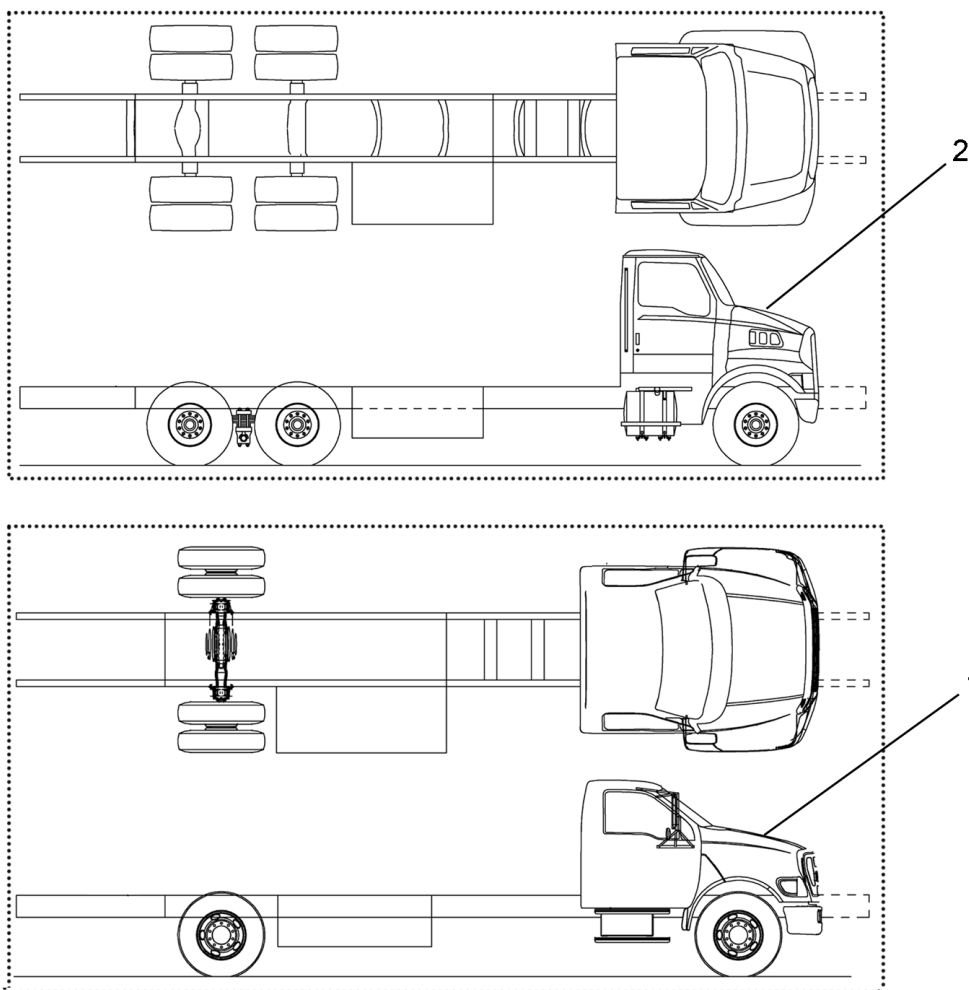
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	19-70-LWR-STR (Rev. 00)	<i>19-70 LOWER STRUCTURE</i>	
1	19-70-CHASSIS*	Truck Chassis (see page 249)	REF
2	19-70-FLATBED	Flatbed Option (see page 251)	1
3	T151475 T152436	Brackets W/Mud Flaps (see page 255)	1
3A	736-00001-1	Brackets W/O Mud Flaps (see page 257)	1
4**	400-25211	Fire Extinguisher Installation (see page 258)	1
5**	400-25213	Electrical Assembly Console (see page 259)	1
6**	765-00059-1	Electrical Assembly Main FRM (see page 261)	1
7	765-00059-2	Front Jack Installation, 34.00 (see page 263)	1
7A	T125785	Front Jack Installation, 46.00 (see page 268)	1
8**	19-70-PTO OPT*	Hydraulic Tank Shut Off Assembly (see page 271)	1
9**		PTO Options (see page 272)	1

* NOT PURCHASABLE AT THIS LEVEL

** NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	19-70 LOWER STRUCTURE	DATE: Released 09-2017	CHAPTER 2
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Refer to Truck Chassis manufacturer (Freightliner M2 106 from Truck Country) for truck repair/replacement parts.

RECORD VEHICLE/MACHINE INFORMATION BELOW FOR USE WHEN ORDERING PARTS

Truck Chassis Manufacturer _____ Model _____	Comments
Boom Truck Model No. _____ Serial No. _____	Comments
Optional Equipment _____	Comments

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	19-70-CHASSIS* (Rev. 00)	<i>Truck Chassis</i>	
1	660-00053-2	Single Axle Chassis	1
2	660-00053-3	Tandem Axle Chassis	1

* NOT PURCHASABLE AT THIS LEVEL

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	TRUCK CHASSIS	DATE: Revised 12-2013	CHAPTER 2
		MODEL: 19-70	
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FLATBED OPTIONS

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CHAPTER

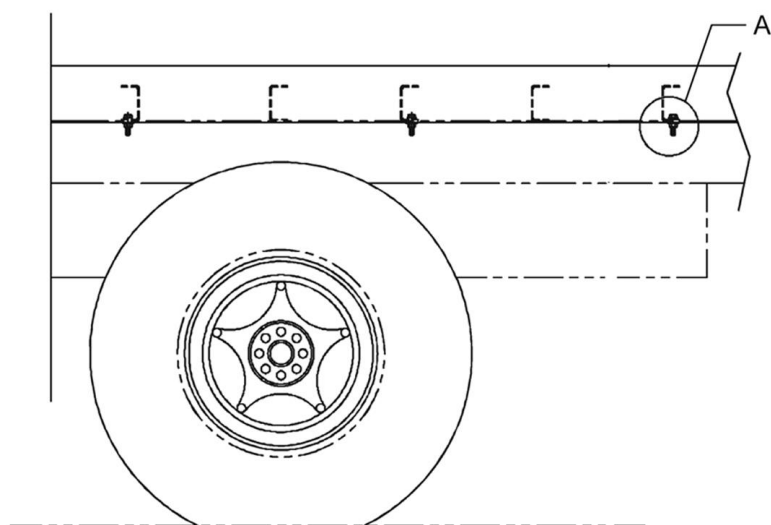
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	19-70-FLATBED (Rev. 00)	<i>Flatbed Option</i>	
1*	695-00193-1	20' Steel STD. Duty Flatbed	1
1.1	696-00034-1	STD. Duty Flatbed INSTL (see page 253)	1
1.2	600-38232-1	Flatbed, 20' Steel Standard Duty	1
2*	695-00193-2	20' Wood STD. Duty Flatbed	1
2.1	600-38232-2	Flatbed, 20' Wood Standard Duty	1
2.2	696-00034-1	STD. Duty Flatbed INSTL (see page 253)	1
3*	695-00193-3	20' Steel Super Duty Flatbed	1
3.1	222-32007-5	Washer, Beveled-1/2"Galvanized	1
3.2	696-00034-2	Super Duty Flatbed INSTL (see page 254)	1
3.3	600-38232-3	Flatbed, 20' Steel Super Duty	1
4*	695-00193-4	20' Wood Super Duty Flatbed	1
4.1	222-32007-5	Washer, Beveled-1/2"Galvanized	1
4.2	696-00034-2	Super Duty Flatbed INSTL (see page 254)	1
4.3	600-38232-4	Flatbed, 20' Wood Super Duty	1
5*	695-00193-1-P4	20' Steel STD. Duty Flatbed, Red	1
5.1	600-38232-1-P4	Flatbed, 20' Steel Standard Duty, Red	1
5.2	696-00034-1	STD. Duty Flatbed INSTL (see page 253)	1
6*	695-00193-1-P23	20' Steel STD. Duty Flatbed, Green	1
6.1	696-00034-1	STD. Duty Flatbed INSTL (see page 253)	1
6.2	600-38232-1-P23	Flatbed, 20' Steel Standard Duty, Green	1

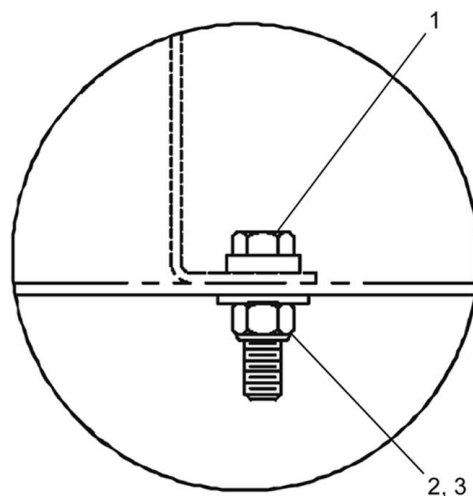
* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	FLATBED OPTIONS	DATE: Revised 11-2016	CHAPTER 2
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GROUND LINE



DETAIL A

REF	PART NO.	DESCRIPTION	QTY
	696-00034-1 (Rev. B)	STD. Duty Flatbed INSTL	
1	709-01925	Flatbed Bolt Weld 1/2-13 X 2.00 GR5	12
2	NYL-500C000-25	Nut, HEX NYL-INS 0.50-13, ST Z G5	12
3	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	12
4*	783-03722	Track Mount Bar	2
5*	783-03723	Track Mount Bar-Long	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FLATBED INSTALLATION (STD DUTY)

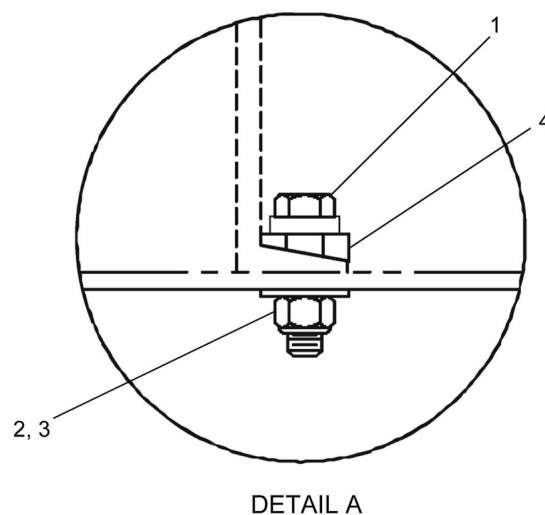
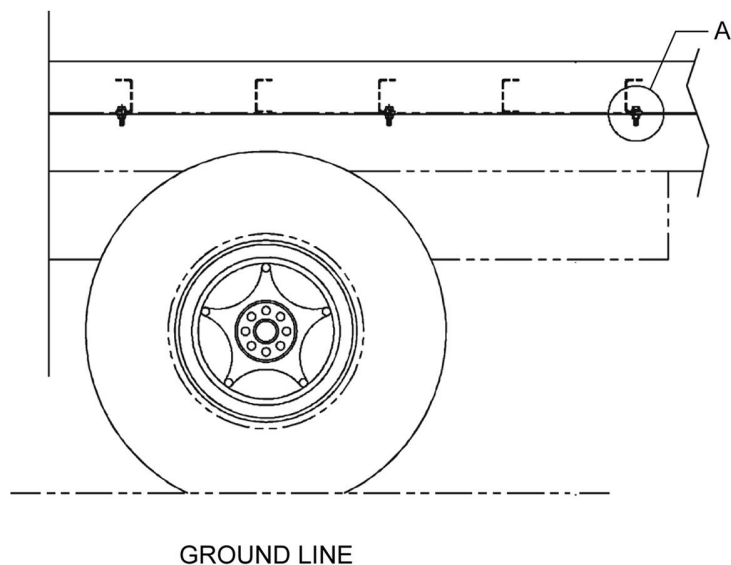
DATE: Revised 11-2016

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CHAPTER

2



REF	PART NO.	DESCRIPTION	QTY
	696-00034-2 (Rev. B)	<i>Super Duty Flatbed INSTL</i>	
1	709-01925	Flatbed Bolt Weld 1/2-13 X 2.00 GR5	12
2	NYL-500C000-25	Nut, HEX NYL-INS 0.50-13, ST Z G5	12
3	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	12
4	WBV-500X001	Bevel Washer 1/2 Galvanize	12
5*	783-03722	Track Mount Bar	2
6*	783-03723	Track Mount Bar-Long	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FLATBED INSTALLATION (SUPER DUTY)

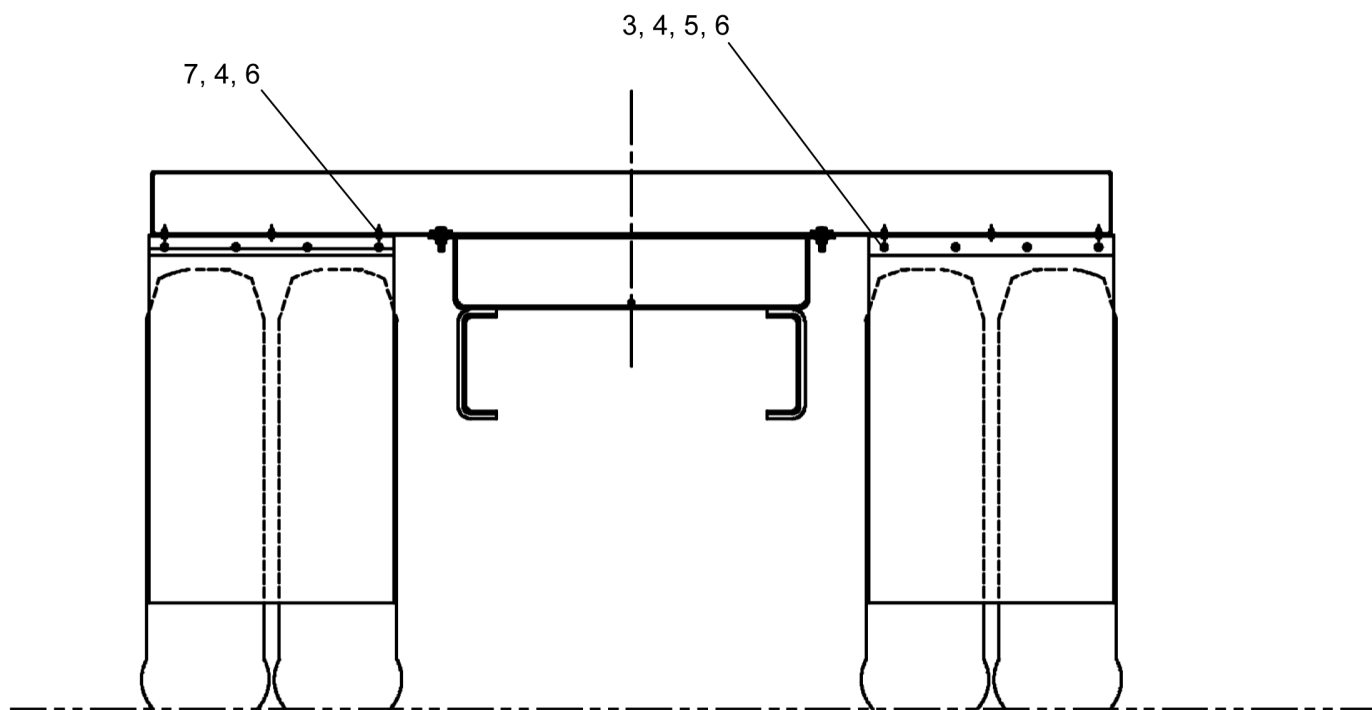
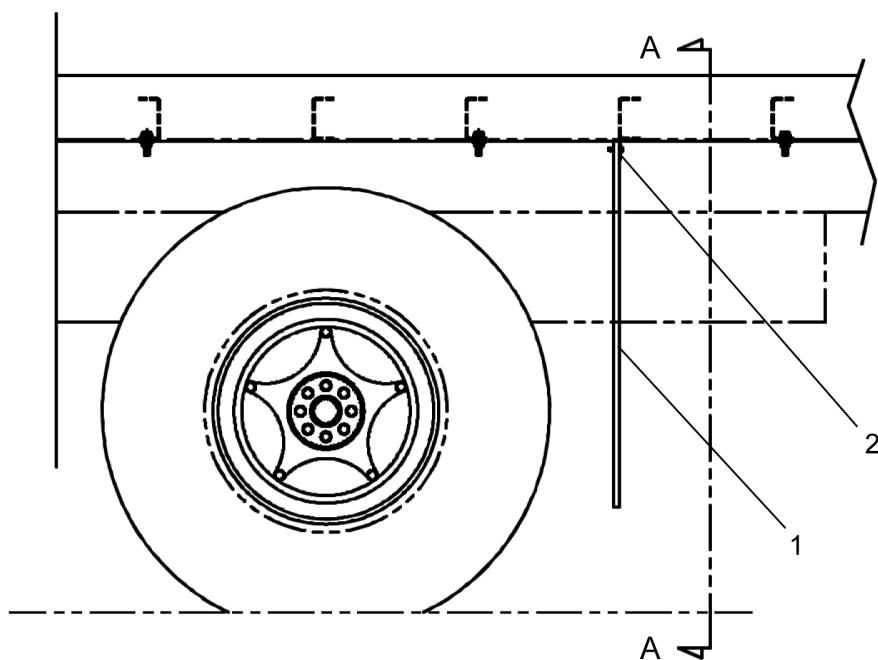
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CHAPTER

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VIEW A-A

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T151475 (Rev. A)	<i>Brackets W/Mud Flaps</i>	
1	209-00461	Mud Flap, 1/2 X 24 X 36 Logo WHT	2
2	785-00561	Angle, Support Mud Flap	2
3	S01-250CA25-25	SCR, HHCS 0.25-20 X 1.25, ST X GR5	14
4	NYL-25C000-25	Nut, HEX NYL-INS 0.25-20, ST Z	14
5	WFD-250XA50-20	WSH, FNDR 0.25 X 1.50, ST SQC	8
6	WAN-25NX000-20	WSH, FL TYP A-NRW 0.25, ST SQC	14
7	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	6

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

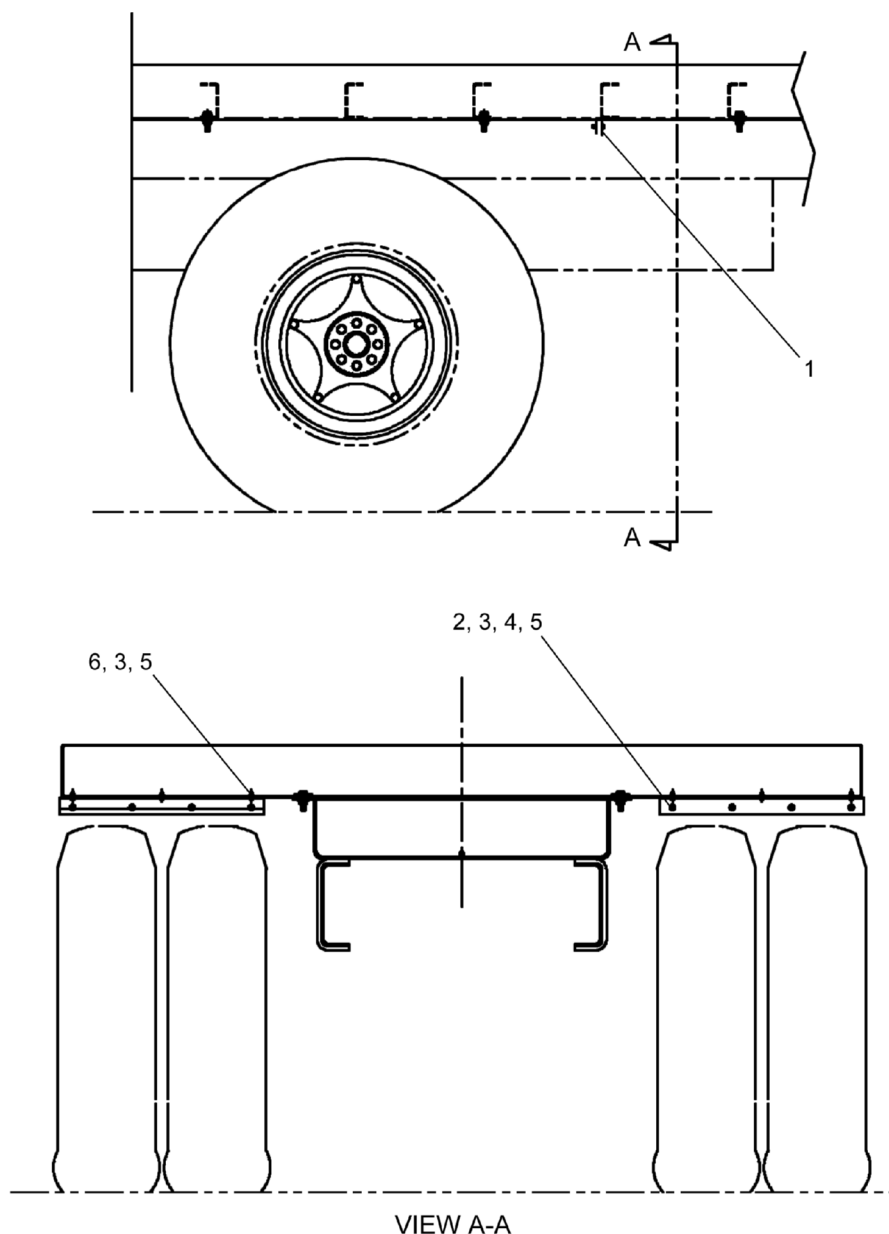


BRACKETS WITH MUD FLAPS (OPTION 1)

DATE: Released 11-2016
MODEL: 19-70
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CHAPTER

2



REF	PART NO.	DESCRIPTION	QTY
	T152436 (Rev. A)	<i>Brackets W/O Mud Flaps</i>	
1	785-00561	Angle, Support Mud Flap	2
2	S01-250CA25-25	SCR, HHCS 0.25-20 X 1.25, ST X GR5	14
3	NYL-25C000-25	Nut, HEX NYL-INS 0.25-20, ST Z	14
4	WFD-250XA50-20	WSH, FNDR 0.25 X 1.50, ST SQC	8
5	WAN-25NX000-20	WSH, FL TYPA-NRW 0.25, ST SQC	14
6	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	6

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



BRACKETS W/O MUD FLAPS (OPTION 2)

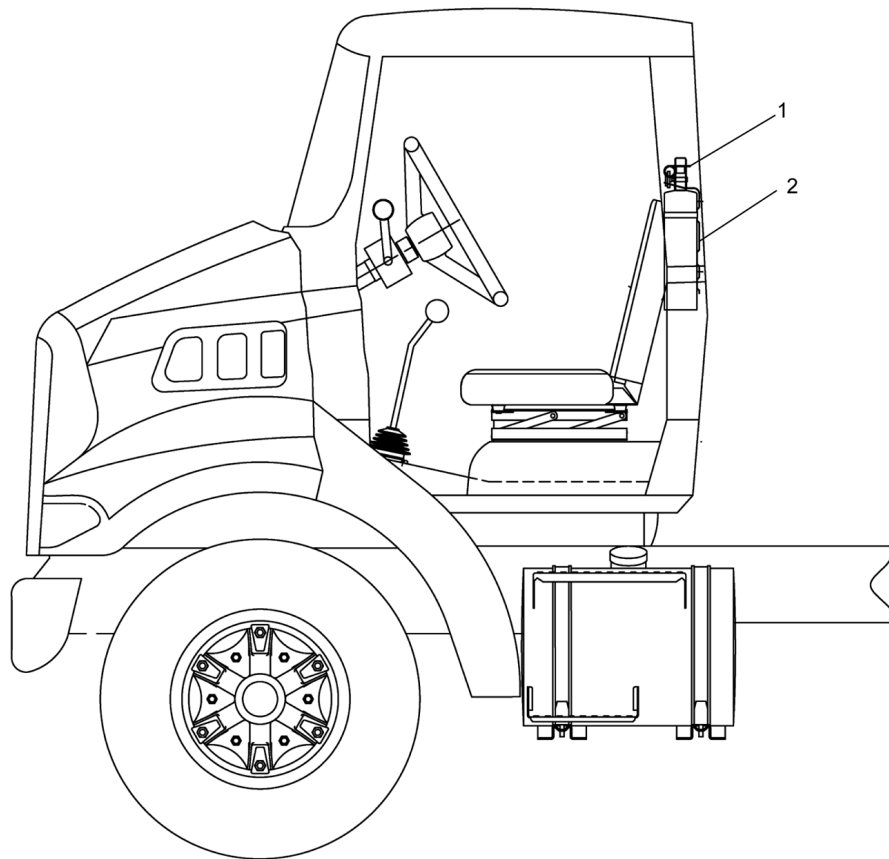
DATE: Released 11-2016

MODEL: 19-70

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CHAPTER

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	736-00001-1 (Rev. B)	<i>Fire Extinguisher Installation</i>	
1	1222-217	Fire Extinguisher	1
2	SHS-190XA25-20	SHS-Screw, HEX Self - Drilling (ENG)	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FIRE EXTINGUISHER INSTALLATION

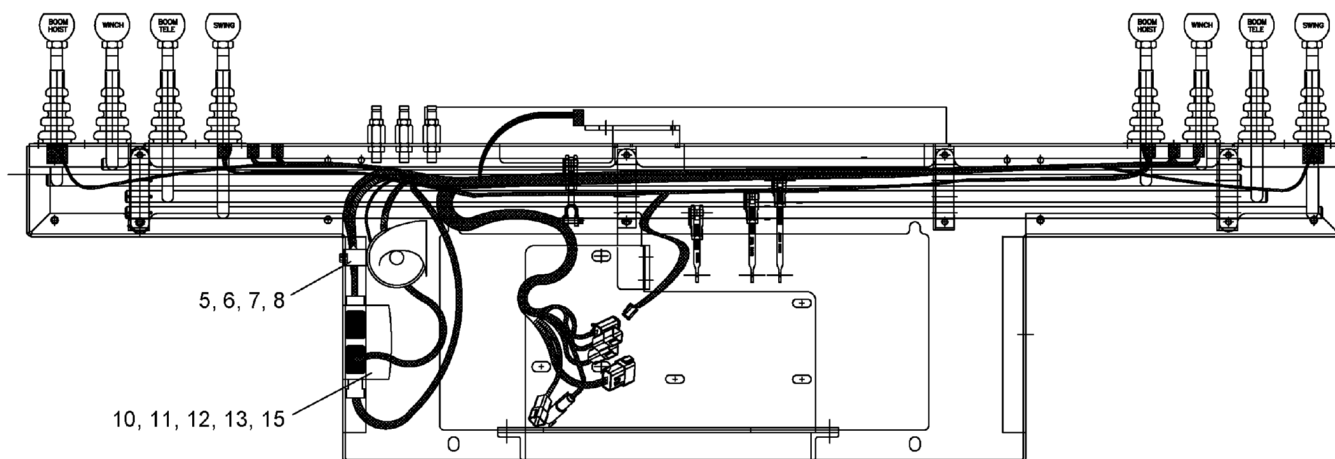
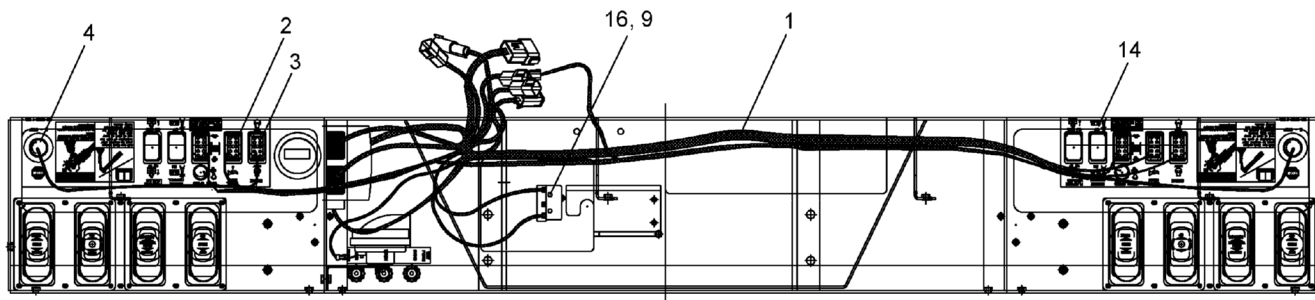
DATE: Revised 06-2016

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ELECTRICAL SYSTEM - CONSOLE CONTROLS

DATE: Revised 04-2019

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	400-25211 (Rev. G)	<i>Electrical Assembly Console</i>	
1	400 25195	Harness Console -2	1
2	1223-1081	SW Rocker MOM ON-OFF	2
3	1223-1051	SW Rocker DPDT	2
4	1223-981	Switch, Push-Pull	2
5	1223-387	Horn	1
6	SHF-312CA00-25	SCR, HHCS FT 0.312-18 X 1.00, ST SQC G5	1
7	WAN-31NX000-20	WSH, FL TYPA-NRW 0.3125, ST SQC	1
8	NYL-312C000-25	Nut, HEX NYL-INS 0.312-18, ST SQC G5	1
9	SL4-086C625-20	SCR, SLT RND MS 2-56 X 0.625 ST SQC	4
10	400-05509	Bussmann Fuse Box	1
11	SHF-190CA50-20	SCR, HHCS FT 10-24 X 1.50, ST SQC	4
12	WAR-190X000-22	WSH, FL TYPA-REG 10, ST SQC G2	8
13	N23-190C000-20	Nut, HEX, Mach 10-24, ST SQC	4
14	1223-1006	Hole Plug SW	4
15	W07-190X000-20	WSH, LCK, MED SPLT 10, ST SQC	4
16	NYL-086C000-22	Nut, HEX, NYL-INS 02-56, ST SQC G2	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ELECTRICAL SYSTEM - CONSOLE CONTROLS

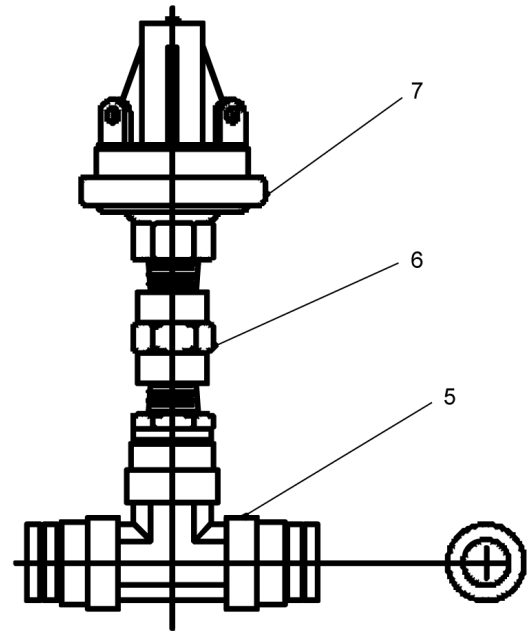
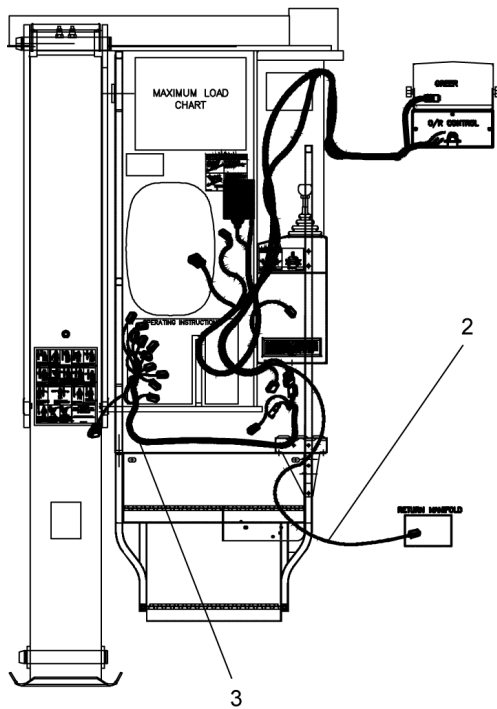
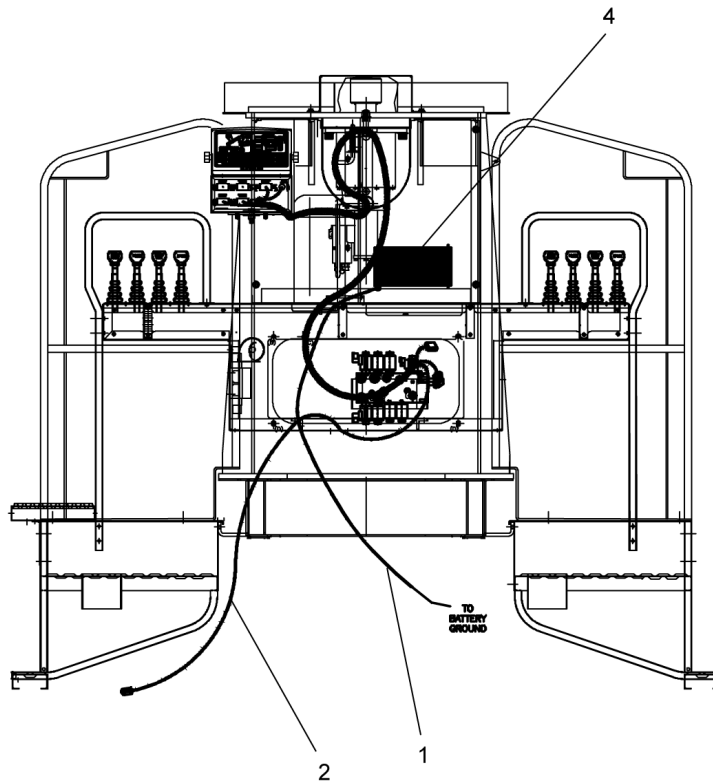
DATE: Revised 04-2019

MODEL: 19-70

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CHAPTER

2



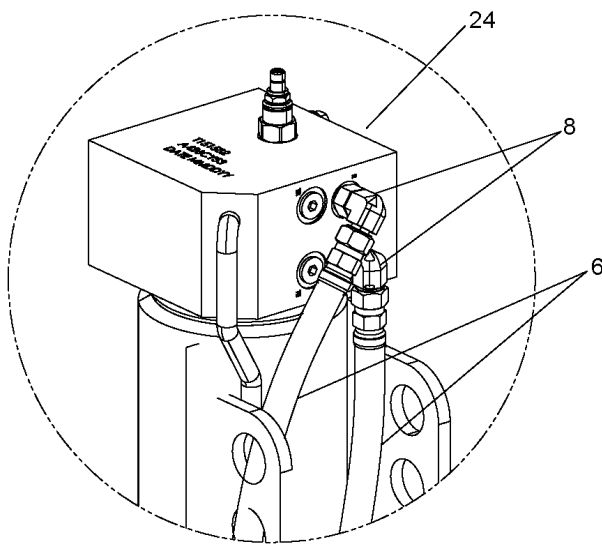
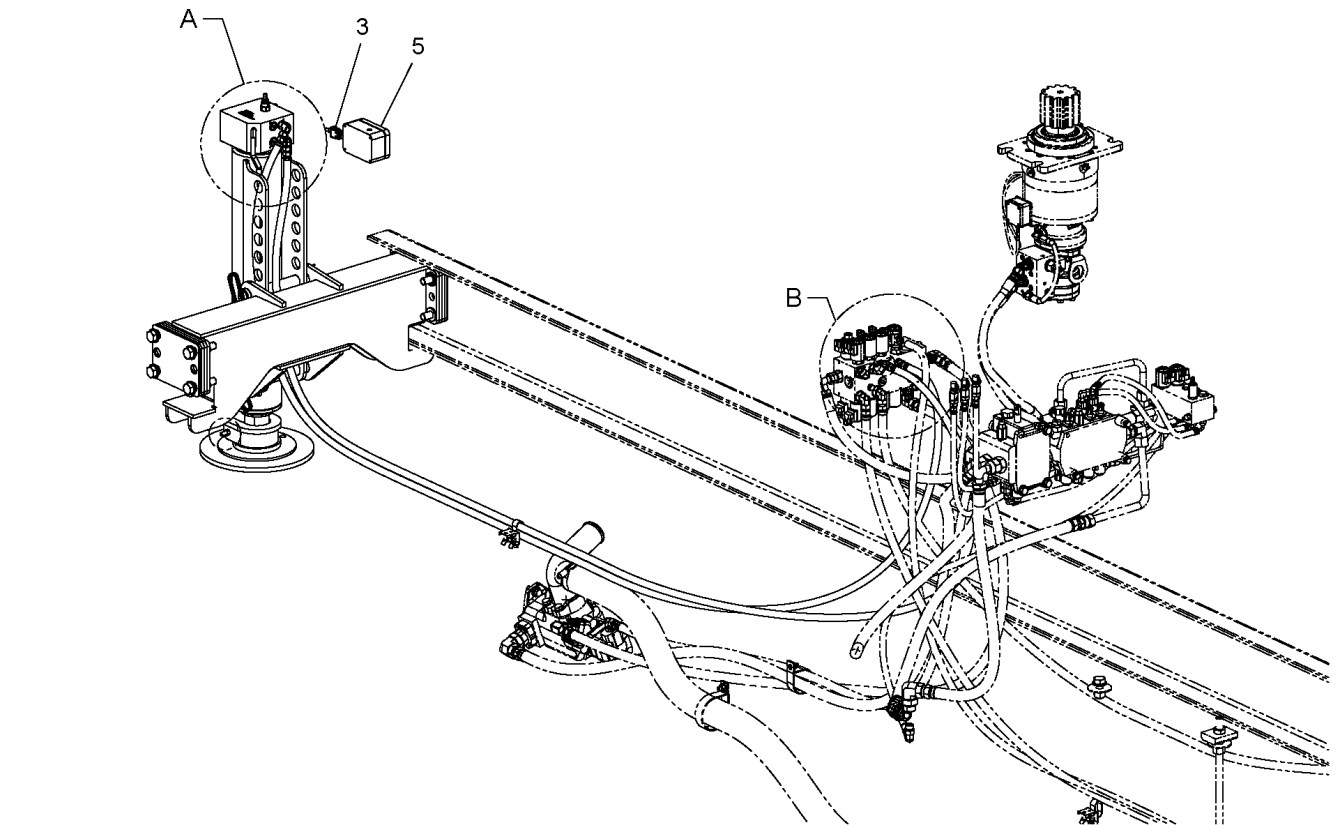
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	400-25213 (Rev. J)	<i>Electrical Assembly Main FRM</i>	
1	400-01530	Cable Assembly (Ground)	1
2	400-25193	Outrigger Harness	1
3	400-25199	Harness Main Valve	1
4	718-0802	Greer Box	REF
5	570-50096	Tee, Branch Swivel	1
6	1219-134	Coupling, P. Brake Assembly	1
7	1223-379	Air Switch	1
8*	1223-547	Air Switch, PTO	1

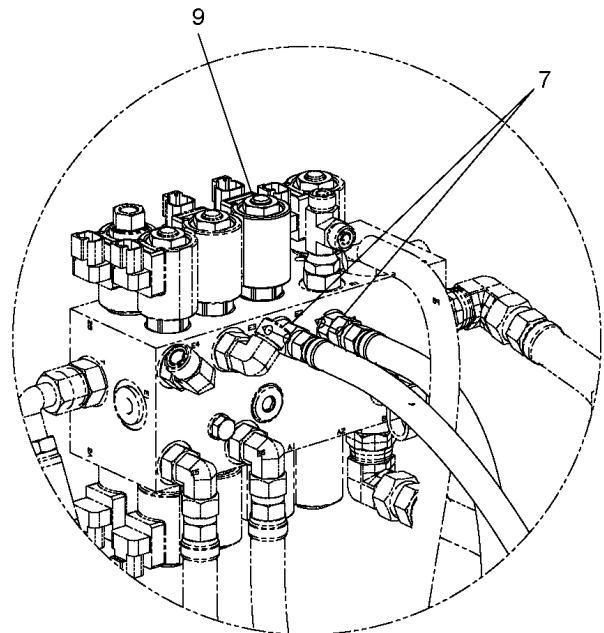
* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	ELECTRICAL ASSEMBLY - MAINFRAME	DATE: Revised 04-2019	CHAPTER 2
		MODEL: 19-70	
		PAGE: 262	

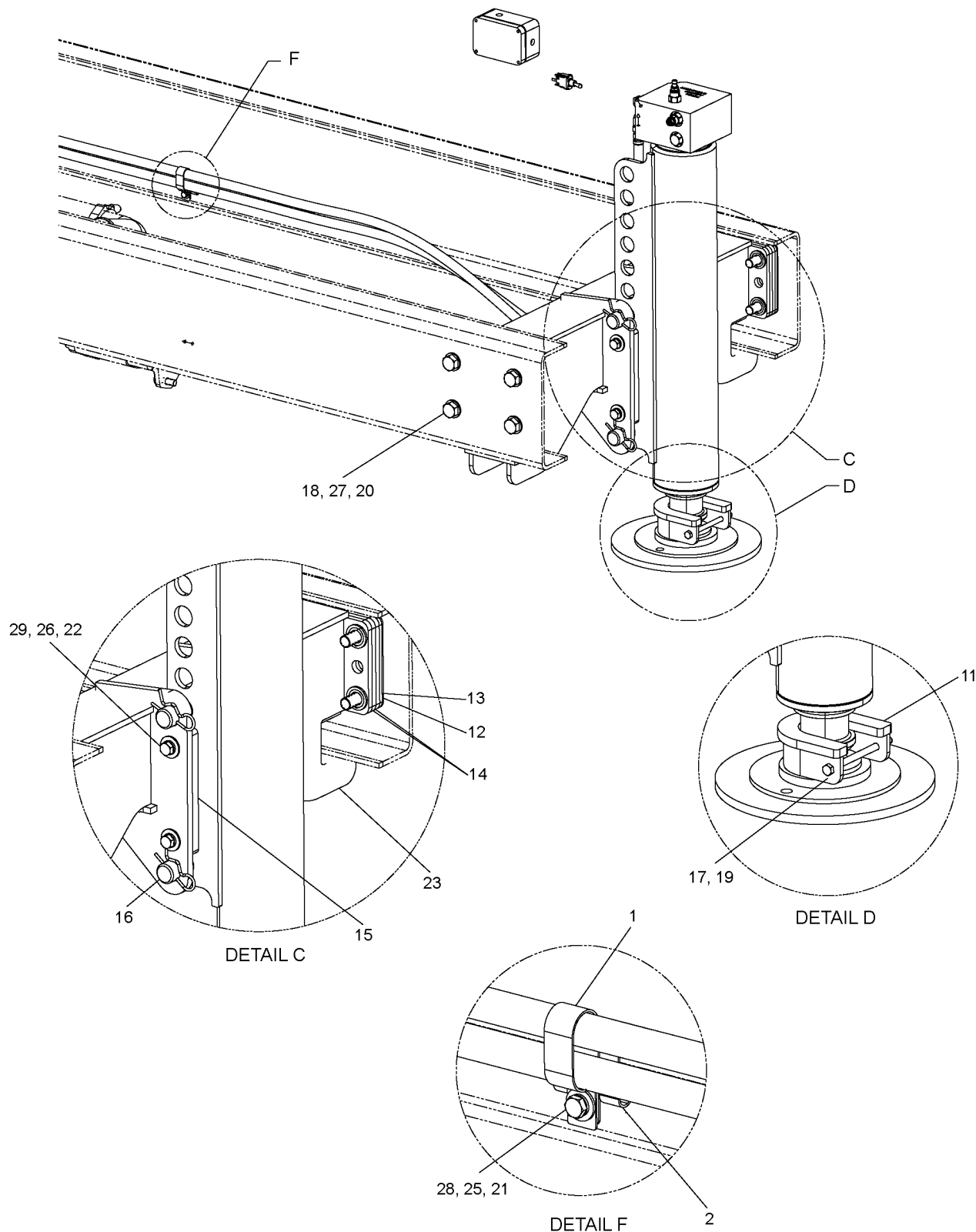


DETAIL A



DETAIL B

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FRONT BUMPER OUTRIGGER INSTALLATION (34" FRAME)

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CHAPTER

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REF	PART NO.	DESCRIPTION	QTY
	765-00059-1 (Rev. G)	Front Jack Installation, 34.00	
1	200B2007-67	Clamp, Double, MED, 0.88 ID	1
2	209-00879	Frame Clip Caddy, DBLE	1
3	400-04122	AUX O/R Switch	1
4*	400-25201	Harness, Front Jack	1
5	402-00049	Toggle Switch Enclosure	1
6	502-21018	Hose, Front Outrigger	2
7	513-40014	Adapter, MOFS-6/MORB-6	2
8	514-54004	Elbow, 90, MORB-6/MOFS-6	2
9	559-00263	Valve, Outrigger	1
10*	655-00013	Optional Decal Location	1
11	717F0362	Pad, FRT Jack	1
12	789-06043	Plate 7.75 X 6.00 X 0.125	2
13	789-06044	Plate 7.75 X 6.00 X 0.250	2
14	789-06045	Plate 7.75 X 6.00 X 0.375	4
15	789-06084	FRT BMPR MTG BRKT Spacer	2
16	870-30234	Front Jack Pin	2
17	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	1
18	NYL-750C000-Y8	NUT, HEX NYL-INS 0.75-10, ST SQC G8	8
19	S01-375CE50-25	SCR, HHCS 0.375-16 X 5.50, ST SQC G5	1
20	S01-750CC25-Y8	SCR, HHCS 0.75-10 X 3.25, ST SQC G8	8
21	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	1
22	SHF-500CA25-25	SCR, HHCS FT 0.50-13 X 1.25, ST SQC G5	4
23	T128151	FRT BMPR MTG BRKT	1
24	T151582	Front Bumper Outrigger (Fisher Hydraulics) (see page 266)	1
25	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	1
26	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
27	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	16
28	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	1
29	WBR-50RXA37-20	WSH, FL TYPB-REG 0.50, ST SQC	4

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FRONT BUMPER OUTRIGGER INSTALLATION (34" FRAME)

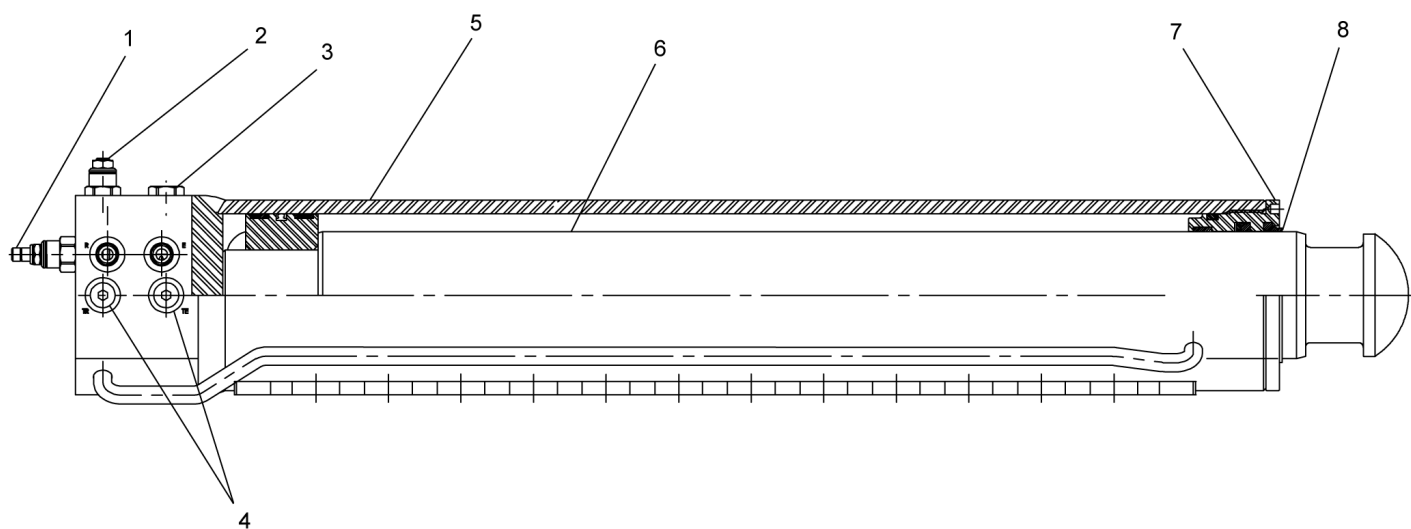
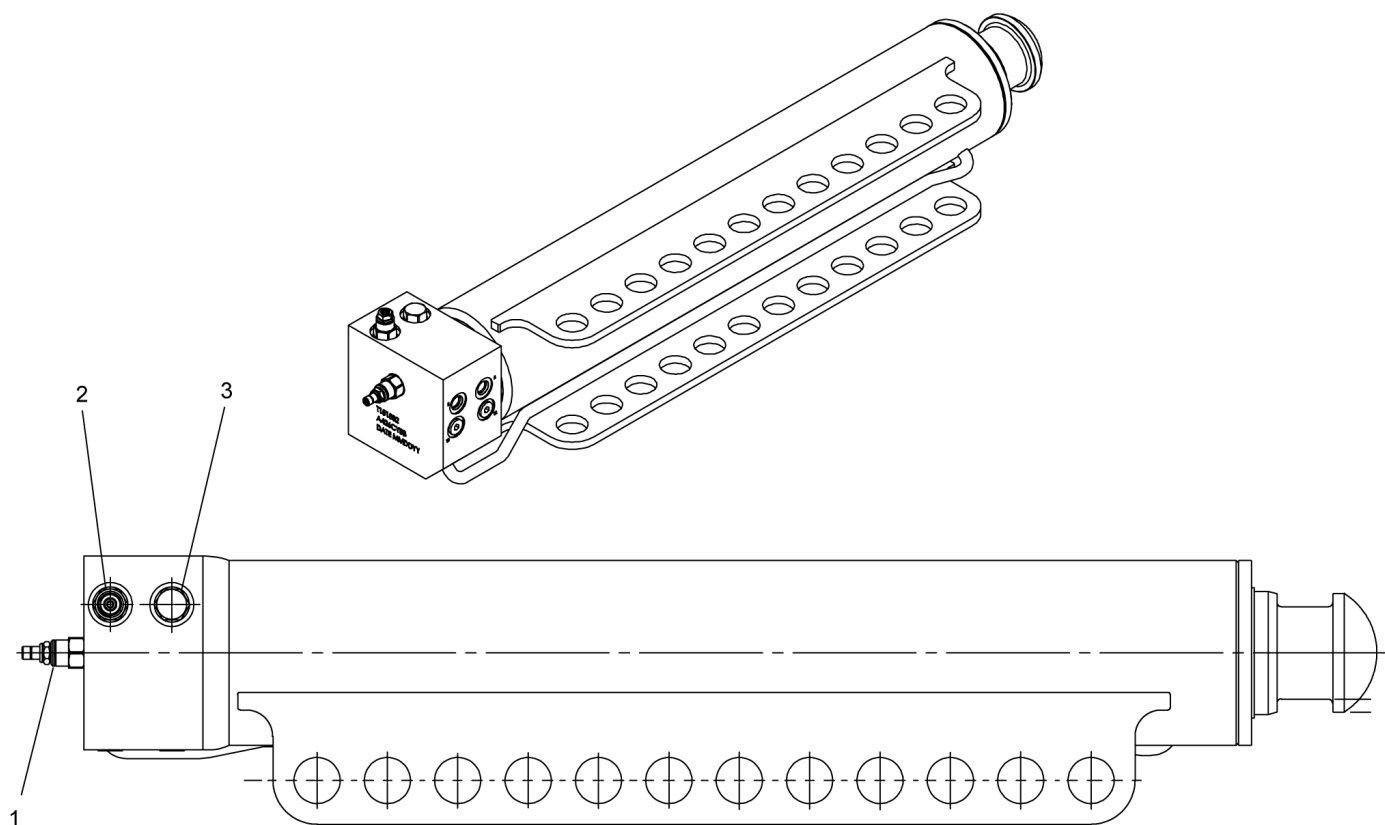
DATE: Revised 04-2019

MODEL: 19-70

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T151582 (Rev. A)	<i>Front Bumper Outrigger (Fisher Hydraulics)</i>	
	231061	Service Seal Kit	1
1	231056	Relief Valve (RPEE-LEN-75)	1
2	222477	CB Valve (CBCA-LIN-600)	1
3	222476	PO Check Valve (CKCB-XCN)	1
4	218693	SH STL Plug	2
5	231057	Barrel Assembly	1
6	231058	Rod Assembly	1
7	231059	Internal Head	1
8	231060	Square Ring	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FRONT BUMPER OUTRIGGER (FISHER HYDRAULICS)

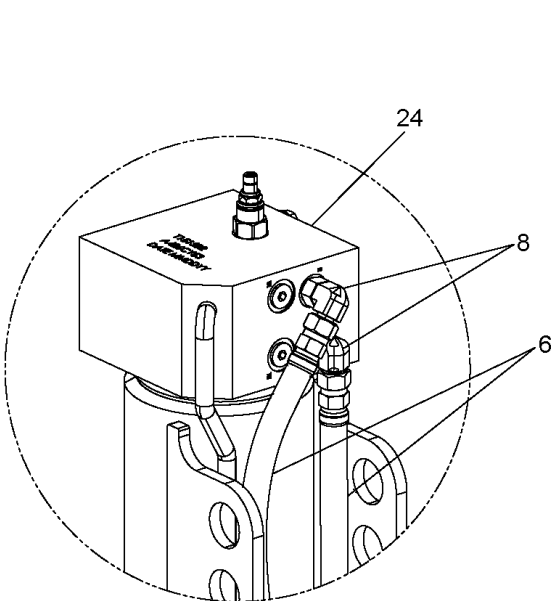
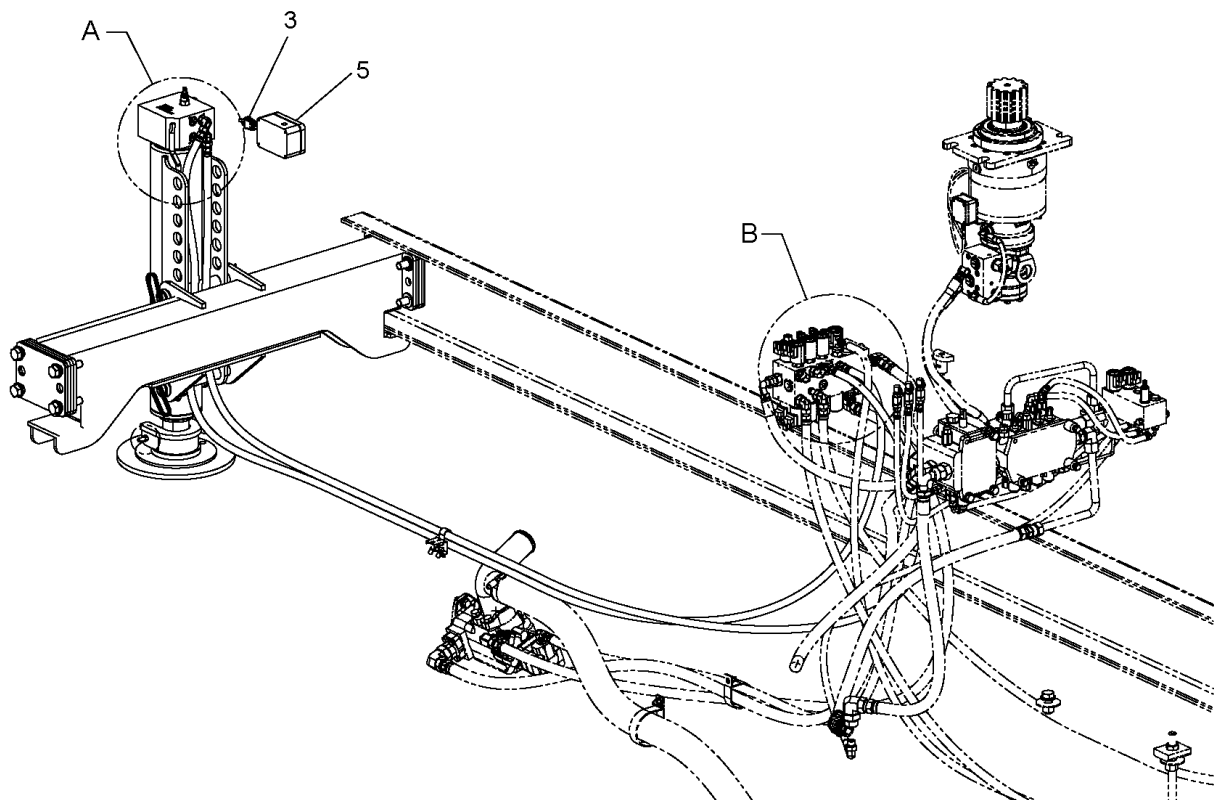
DATE: Released 04-2019

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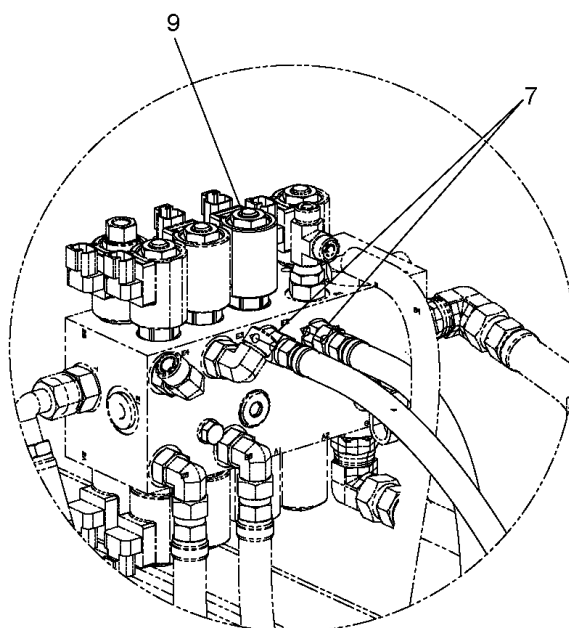
PAGE: 267

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2

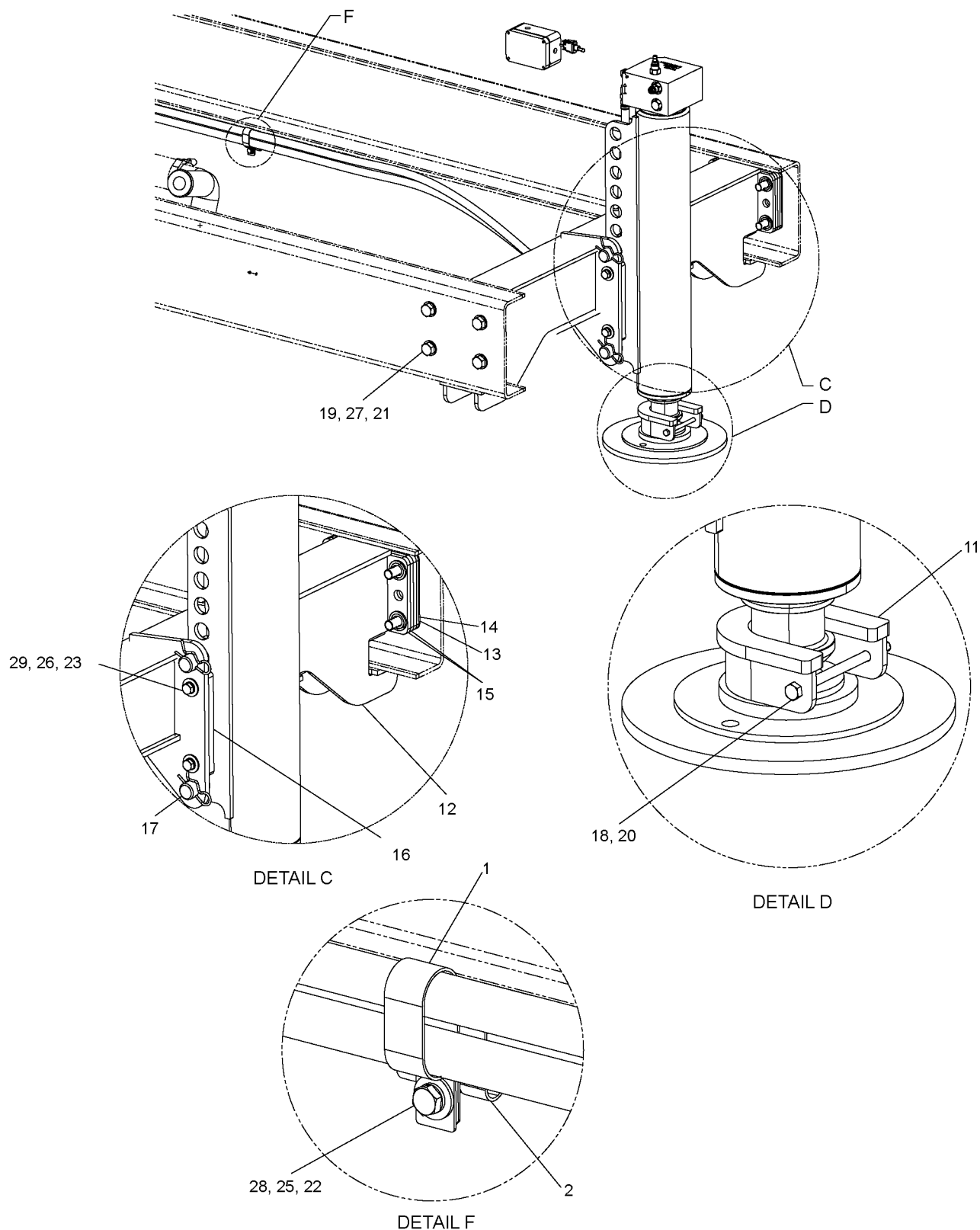


DETAIL A



DETAIL B

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FRONT BUMPER OUTRIGGER INSTALLATION (46" FRAME)

DATE: Revised 04-2019

MODEL: 19-70

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REF	PART NO.	DESCRIPTION	QTY
	765-00059-2 (Rev. F)	Front Jack Installation, 46.00	
1	200B2007-67	Clamp, Double, MED, 0.88 ID	1
2	209-00879	Frame Clip Caddy, DBLE	1
3	400-04122	AUX O/R Switch	1
4*	400-25201	Harness, Front Jack	1
5	402-00049	Toggle Switch Enclosure	1
6	502-21018	Hose, Front Outrigger	2
7	513-40014	Adapter, MOFS-6/MORB-6	2
8	514-54004	Elbow, 90, MORB-6/MOFS-6	2
9	559-00263	Valve, Outrigger	1
10*	655-00013	Optional Decal Location	1
11	717F0362	Pad, FRT Jack	1
12	760-00460	FRT BMP MTG BRKT	1
13	789-06043	Plate 7.75 X 6.00 X 0.125	2
14	789-06044	Plate 7.75 X 6.00 X 0.250	2
15	789-06045	Plate 7.75 X 6.00 X 0.375	4
16	789-06084	FRT BMPR MTG BRKT Spacer	2
17	870-30234	Front Jack Pin	2
18	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	1
19	NYL-750C000-Y8	NUT, HEX NYL-INS 0.75-10, ST SQC G8	8
20	S01-375CE50-25	SCR, HHCS 0.375-16 X 5.50, ST SQC G5	1
21	S01-750CC25-Y8	SCR, HHCS 0.75-10 X 3.25, ST SQC G8	8
22	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	1
23	SHF-500CA25-25	SCR, HHCS FT 0.50-13 X 1.25, ST SQC G5	4
24	T151582	Front Bumper Outrigger (Fisher Hydraulics) (see page 266)	1
25	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	1
26	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	4
27	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	16
28	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	1
29	WBR-50RXA37-20	WSH, FL TYPB-REG 0.50, ST SQC	4

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



FRONT BUMPER OUTRIGGER INSTALLATION (46" FRAME)

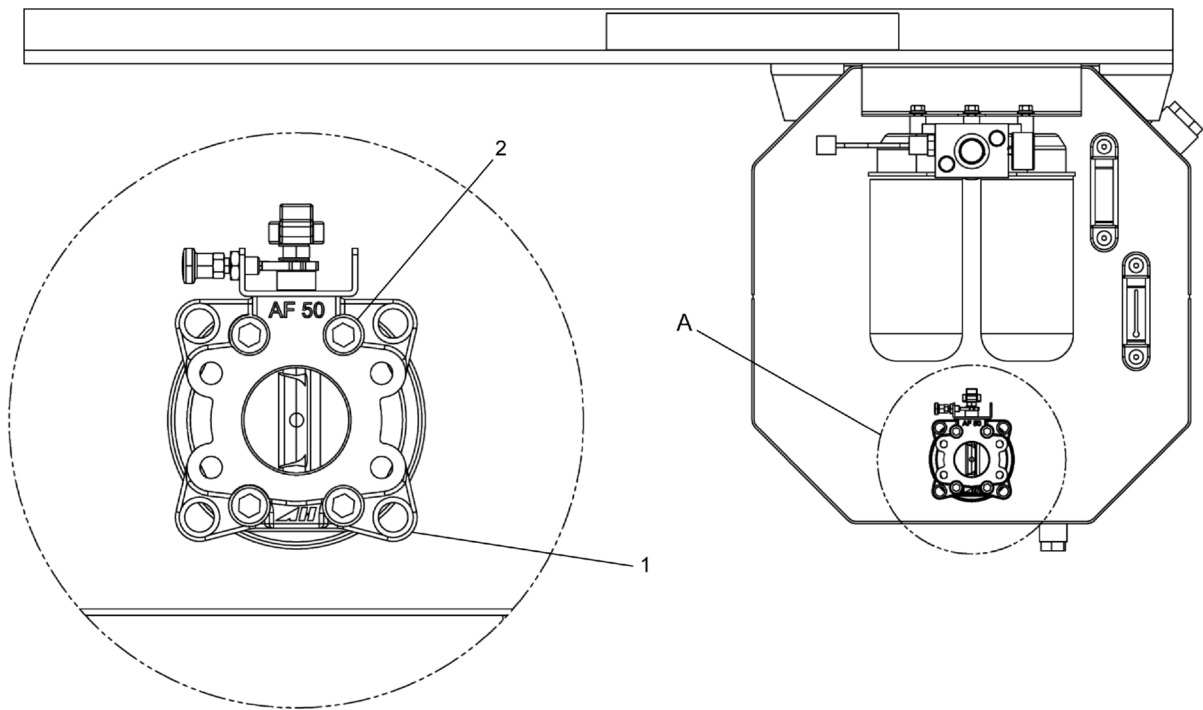
DATE: Revised 04-2019

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DETAIL A

REF	PART NO.	DESCRIPTION	QTY
	T125785 (Rev. A)	Hydraulic Tank Shut Off Assembly	
1	T125772	Valve, Butterfly	1
2	S14-500CA50-H2	SCR, SHCS 0.50-13 X 1.50, ST Z	4

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



HYDRAULIC TANK SHUT OFF ASSEMBLY

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	19-70-PTO OPT* (Rev. 00) <i>PTO Options</i>		
1	350-00206	PTO, Hot Shift Generic	1
2	350-00208	PTO, E/Shift Sterling	1
3	350-00214	PTO, E/Shift Ford	1

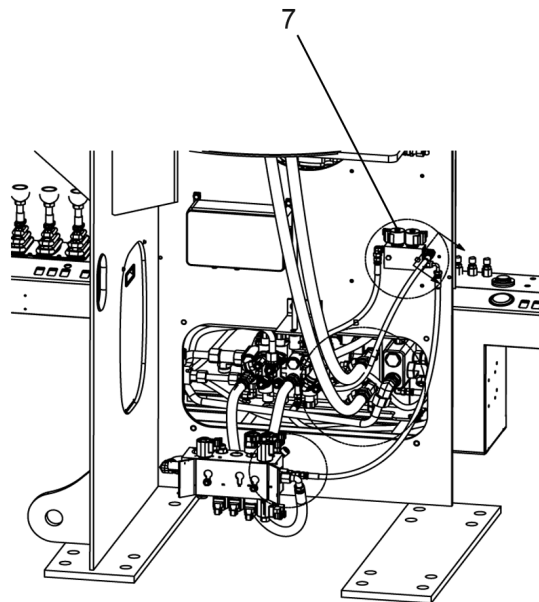
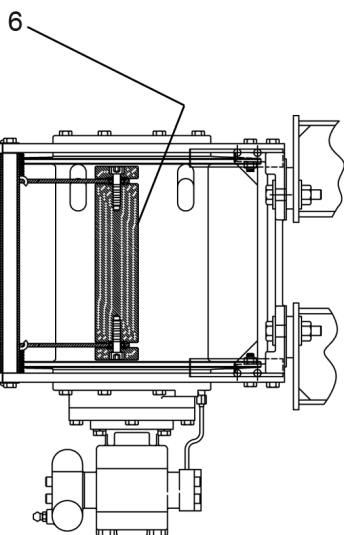
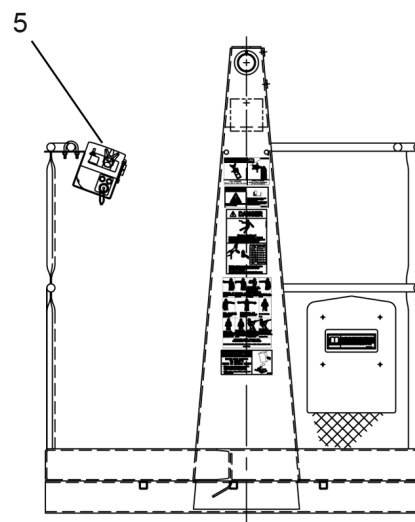
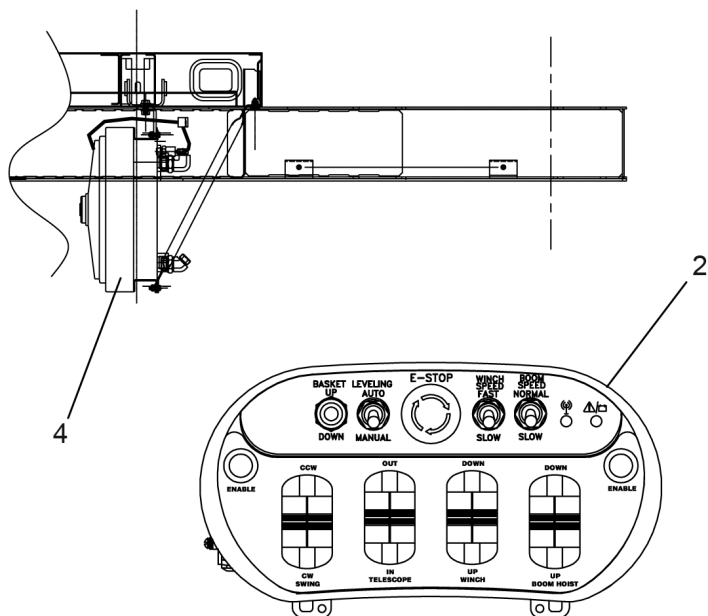
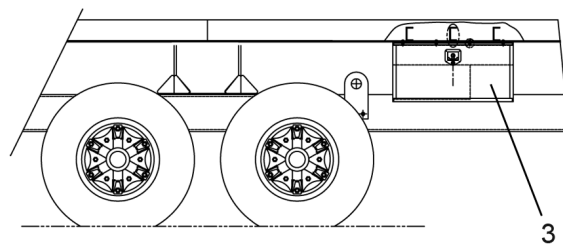
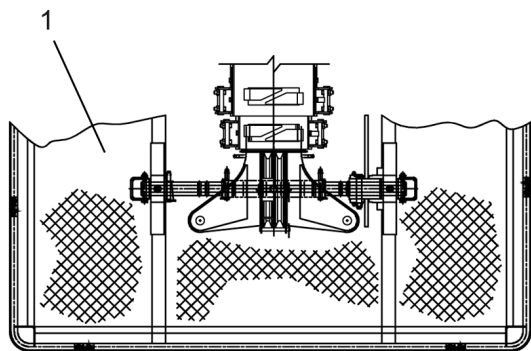
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	PTO OPTIONS	DATE: Released 04-2018	CHAPTER 2
		MODEL: 19-70	
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CHAPTER NO. 3

OPTIONAL EQUIPMENT

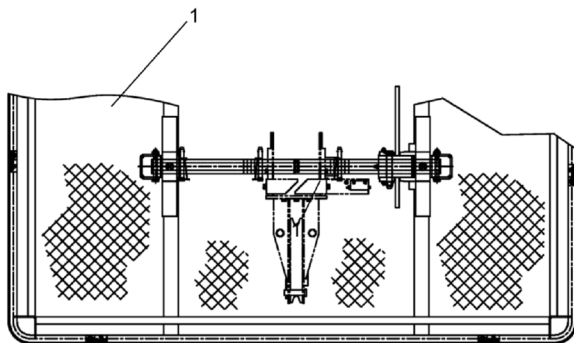


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

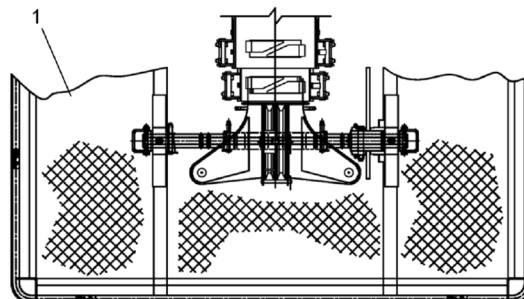
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19-70-OPT-EQUIP (Rev. 00) <i>OPTIONAL EQUIPMENT</i>			
1	T128129	2-Man Steel Platform Installation (see page 277)	1
2	T127107	Radio Remote ASSY (see page 284)	1
3	697-00007-1	Tool Box Installation 36" (see page 293)	1
3A	697-00007-2	Tool Box Installation 30" (see page 295)	1
4	500-01841	Oil Cooler INSTL, Curb Side (see page 297)	1
4A	T119080	Oil Cooler Installation, Street Side (see page 300)	1
5	T128721	Radio Remote Transmitter INSTL With 2-Man Steel Personnel Platform (see page 302)	1
6	717-00054-2	Cable Tensioner INSTL 19-70 Series (see page 303)	1
6A	717-00054-2-R	Cable Tensioner INSTL 19-70 Series (see page 304)	1
7	500-01831	Inching Valve Option (see page 305)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

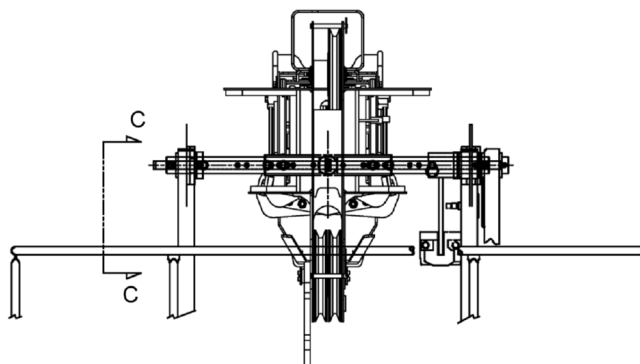
	OPTIONAL EQUIPMENT	DATE: Released 09-2017	CHAPTER 3
		MODEL: 19-70	
		PAGE: 276	



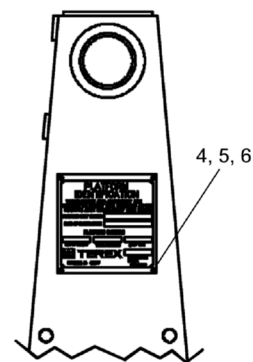
JIB INSTALLATION TOP VIEW



BOOM TOP VIEW



BOOM FRONT VIEW



VIEW C-C

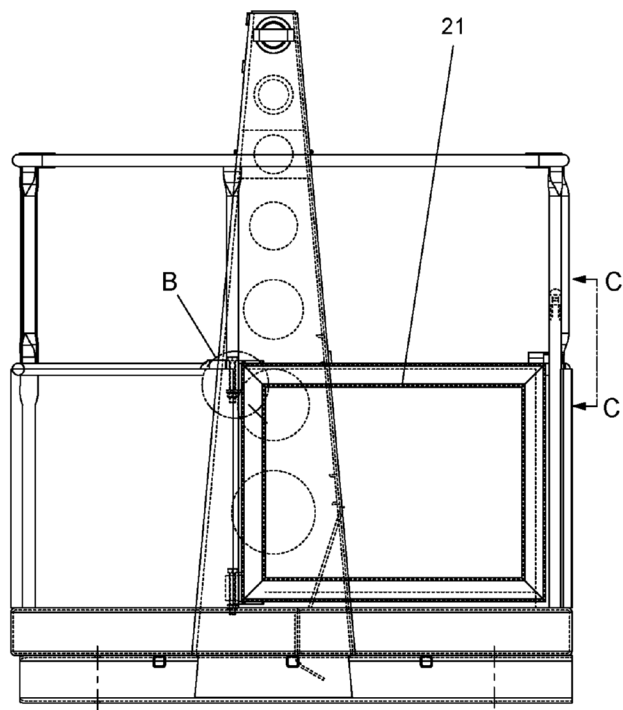
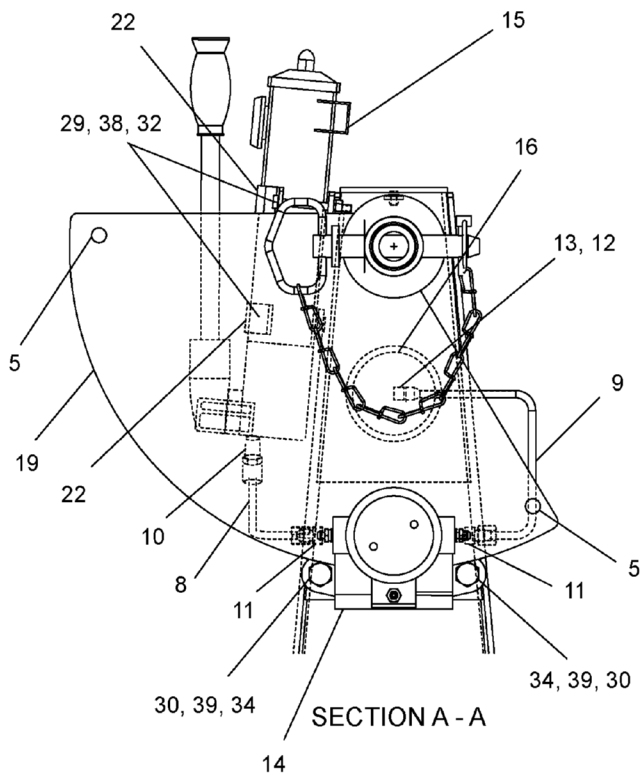
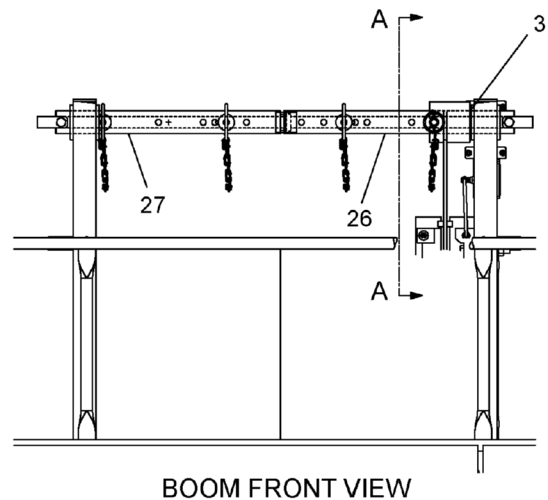
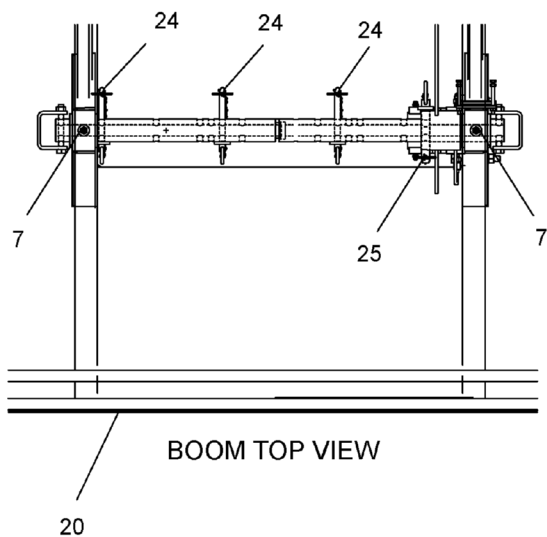
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T128129 (Rev. A)	<i>2-Man Steel Platform Installation</i>	
1	730-20433	2 Man Steel Platform Assembly (see page 279)	1
2*	209-00434	Aerial LANYARD-Shock Absorbing	2
3*	209-00809	Safety Harness	2
4	1006874	Platform Identification Plate	1
5	226-00023-5	POP Rivet 0.125 DIA X 0.462 LG	4
6	652-00577	1 or 2 Man Platform Stamping INFO Chart	REF

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	2 - MAN STEEL PLATFORM INSTALLATION	DATE: Revised 12-2013	CHAPTER 3
		MODEL: 19-70	
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



2 PERSON STEEL PLATFORM ASSEMBLY

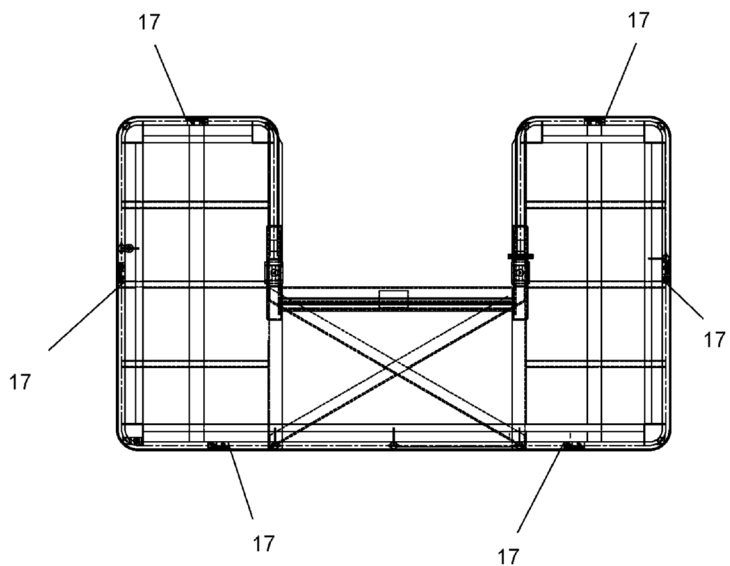
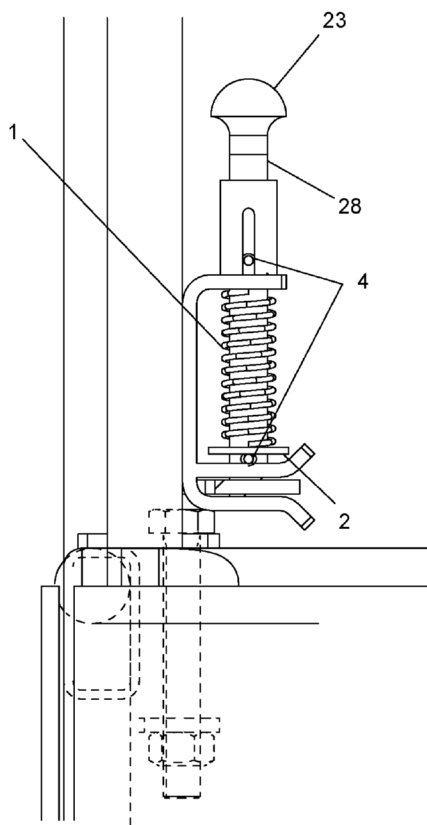
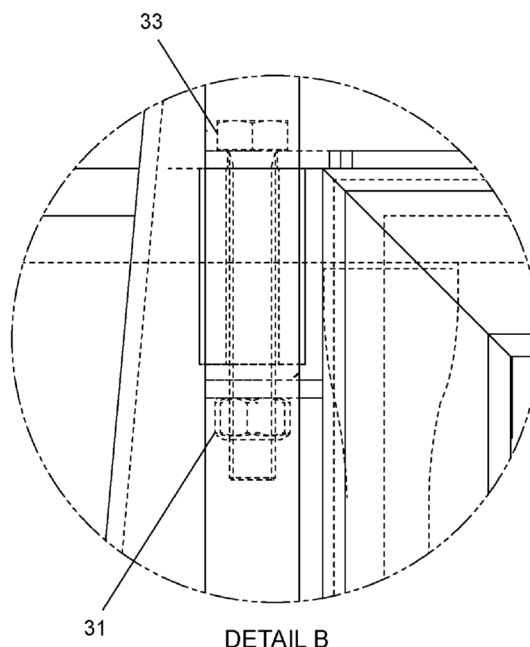
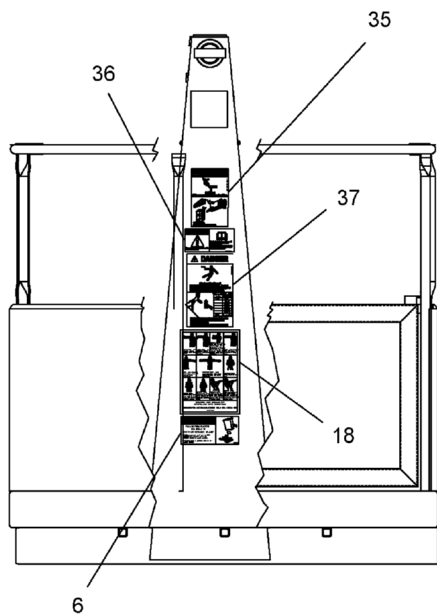
DATE: Revised 09-2017

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



2 PERSON STEEL PLATFORM ASSEMBLY

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REF	PART NO.	DESCRIPTION	QTY
	730-20433 (Rev. D)	2 Man Steel Platform Assembly	
1	202-10077	Spring, Compression	1
2	222-04011	Flatwasher-Special	1
3	222-29011	Mach BSHG-3 OD X2ID X14GA(E1N)	4
4	224-12009	Roll Pin, 1/8 X 1 LG PLT	2
5	224-19017	Roll Pin 1/2 OD X 1 1/4 LG	2
6	419264A	Platform Danger Decal (LOAD KING TEL)	2
7	501-03001	Lube Fitting 1/4-28 UNF	2
8	510-20447	Tube ASSY, Pump-2-Man PLTFRM	1
9	510-20448	Tube ASSY, Brake-2-Man PLTFRM	1
10	513-20001	CONN STL 1/4JIC 1/4MPT	1
11	513-20002	CONN TOMPK#6400-4	2
12	513-20006	CONN STL 1/4JIC 1/4FPT	1
13	514-62001	Elbow	1
14	559-00055	Hydraulic Brake-Mico	1
15	559-00056	Hand Pump-ENERPAC	1
16	600-40280	Pressure Gauge-Console	1
17	1006869	Decal-Hands Off Rail	6
18	1007045	Decal, Crane Hand Signals	2
19	730-20338	Hydraulic Brake Disc Segment	1
20	730-20434	Weldment 2-Man Platform	1
21	730-20441	Weldment 2-Door ST Platform	1
22	771-00128	Hand Pump BRKT-New Design	2
23	808-00031	Push Pull KNOB Black	1
24	870-00131	Pin ASSY, Jib Restrain	3
25	870-00149	Hitch Pin ASSY, 3/4 DIA	1
26	870-60220	LH 2-Man Platform Pin ASSY (see page 282)	1
27	870-60222	RH 2-Man Platform Pin ASSY (see page 283)	1
28	870-80013	Pin, Latch	1
29	N04-250C000-25	Nut, HEX 0.25-20, ST SQC G5	4
30	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	2
31	NTP-500C000-2C	Nut, HEX TPLCK 0.50-13, ST SQC GC	2
32	S01-250CB50-25	Screw, HHCS 0.25-20 X 2.50, ST SQC G5	4
33	SHF-500CC50-25	SCR, HHCS FT 0.50-13X3.50, ST Z G5	2
34	SHF-500CD00-25	SCR, HHCS FT 0.50-13 X 4.00, ST SQC G5	2
35	T121866	Decal - Jib Removal W/Lift	2
36	T127259	Decal-Remote Warning	2
37	1007054	Decal, Personnel Platform Electrocution	2
38	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	4
39	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



2 PERSON STEEL PLATFORM ASSEMBLY

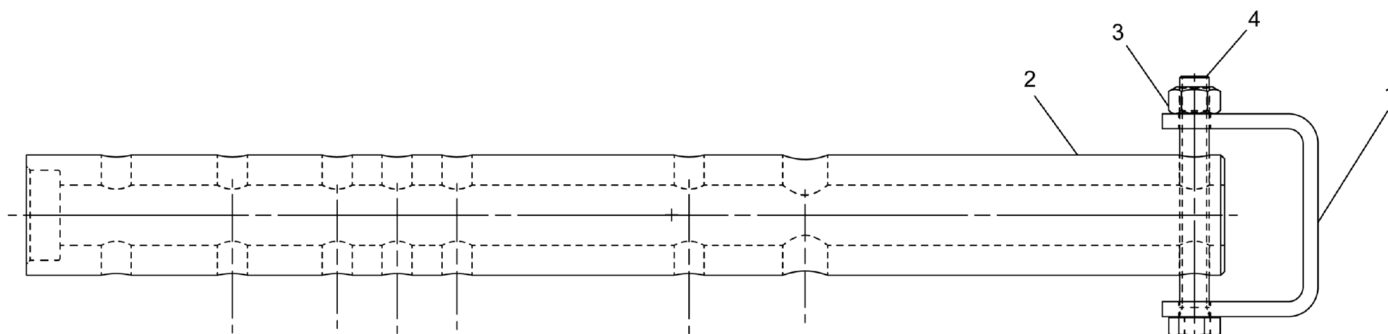
DATE: Revised 09-2017

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	870-60220 (Rev. B)	<i>LH 2-Man Platform Pin ASSY</i>	
1	729-02576	Pin Handle	1
2	870-60219	Pin, 2-Man Platform LH	1
3	NTP-500C000-2C	Nut, HEX TPLCK 0.50-13, ST SQC GC	1
4	SHF-500CD00-25	SCR, HHCS FT 0.50-13 X 4.00, ST SQC G5	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PIN ASSEMBLY, 2MAN PLATFORM-LH

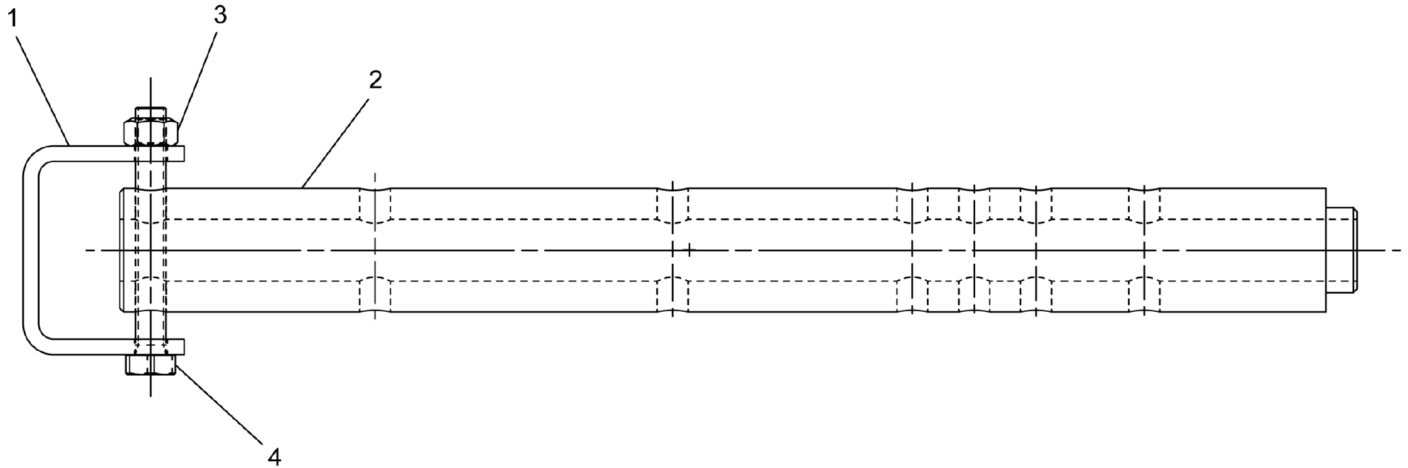
DATE: Released 04-2018

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	870-60222 (Rev. B)	<i>RH 2-Man Platform Pin ASSY</i>	
1	729-02576	Pin Handle	1
2	870-60221	Pin, 2-Man Platform RH.....	1
3	NTP-500C000-2C	Nut, HEX TPLCK 0.50-13, ST SQC GC	1
4	SHF-500CD00-25	SCR, HHCS FT 0.50-13 X 4.00, ST SQC G5	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PIN ASSEMBLY, 2MAN PLATFORM-RH

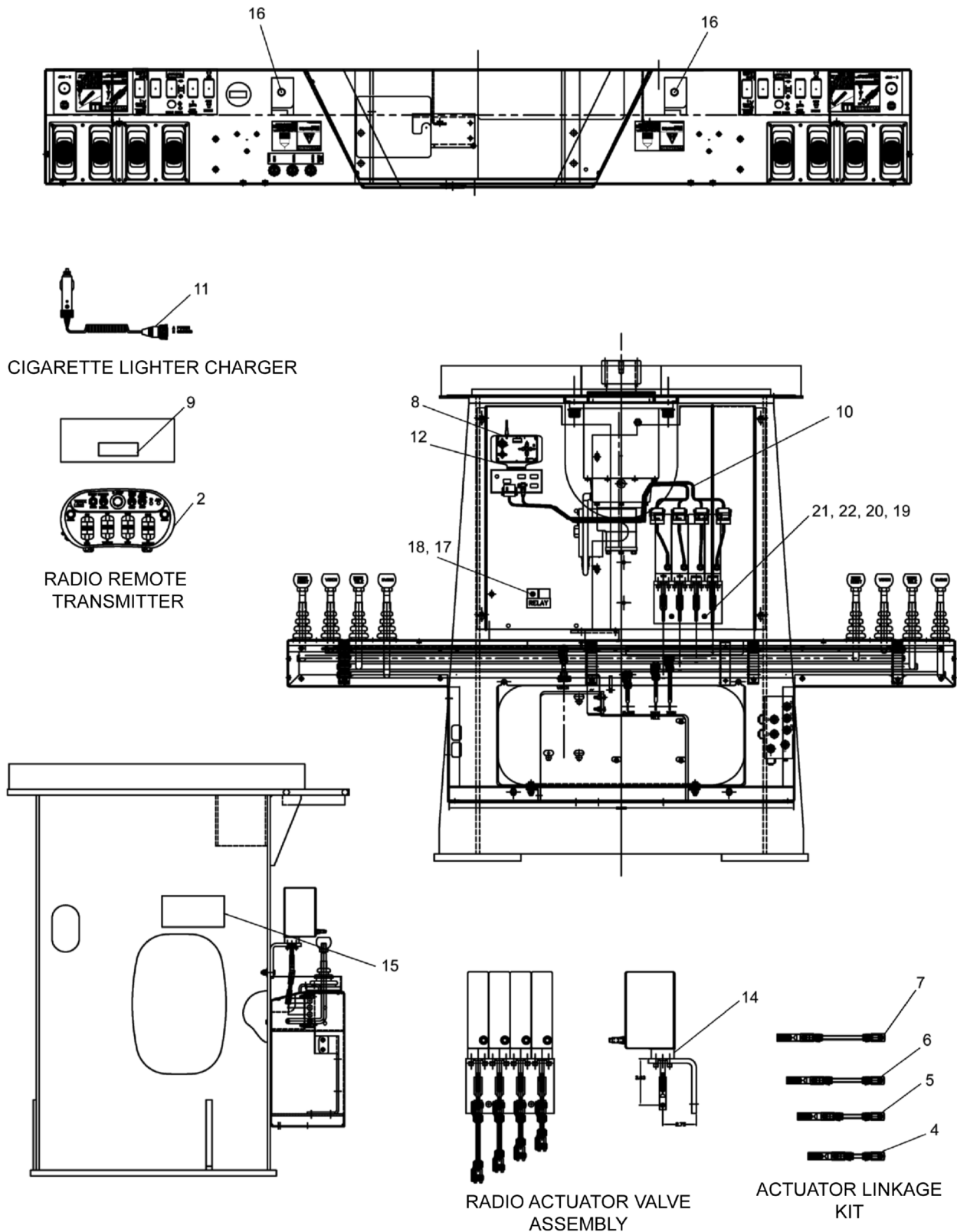
DATE: Released 04-2018

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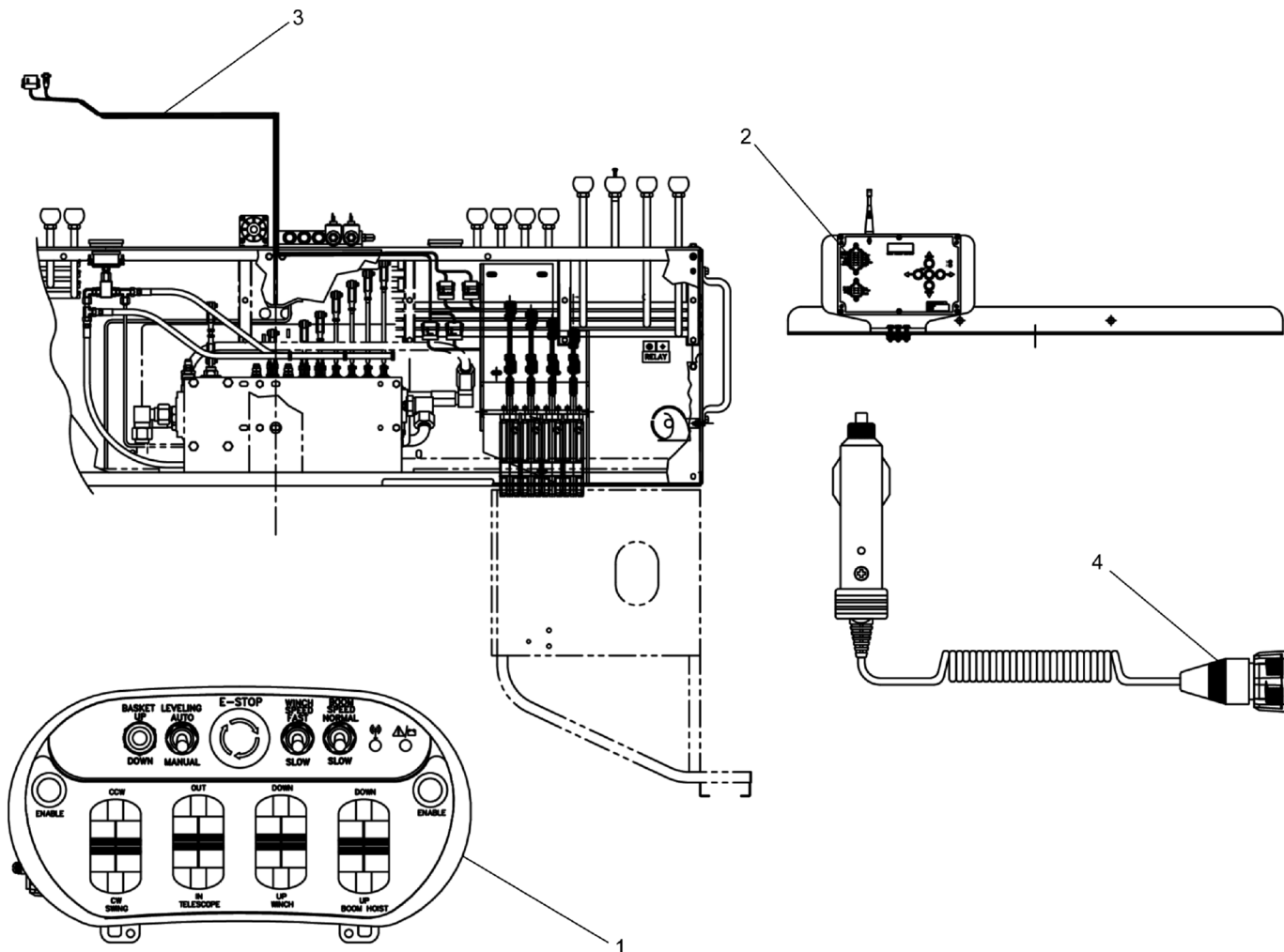
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T127107 (Rev. C)	<i>Radio Remote ASSY</i>	
1*	T127004	Kit Radio Remote Control System (see page 286)	1
2	T127365	Radio Remote Transmitter	1
3*	T127100	Actuator Linkage Kit (see page 287)	1
4	T127396	Actuator Linkages SUB ASSY 3.72 (see page 288)	1
5	T127397	Actuator Linkages SUB ASSY 4.59 (see page 289)	1
6	T127367	Actuator Linkages SUB ASSY 5.46 (see page 290)	1
7	T127101	Actuator Linkages SUB ASSY 6.32 (see page 291)	1
8	T127366	Receiver, Main Control	1
9	T127259	Decal-Remote Warning	1
10	T127369	Wire Harness, Ranger 4 Crane	1
11	403-00107	Cigarette Lighter Charger	1
12	T128166	Mounting Bracket	1
13*	T127105	Actuator 3.0 Inch Travel	4
14	T127106	Radio Actuator Valve Assembly (see page 292)	1
15	650-00663	Decal, Operating INSTR, Radio Remote	2
16	651-00432	Decal, Remote Control	2
17	NYL-190C000-22	Nut, HEX NYL-INS 10-24, ST SQC G2	1
18	SL4-190C750-20	SCR, SLT RND MS 10-24 X 0.750, ST SQC	1
19	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	2
20	W07-375X000-20	WSH, LCK, MED SPLT 0.375, ST Z	2
21	S01-375CA50-25	SCR, HHCS 0.375-16 X 1.50, ST SQC G5	2
22	WAH-37NX000-20	WSH, FL HRD A-NRW 0.375, ST SQC	2

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

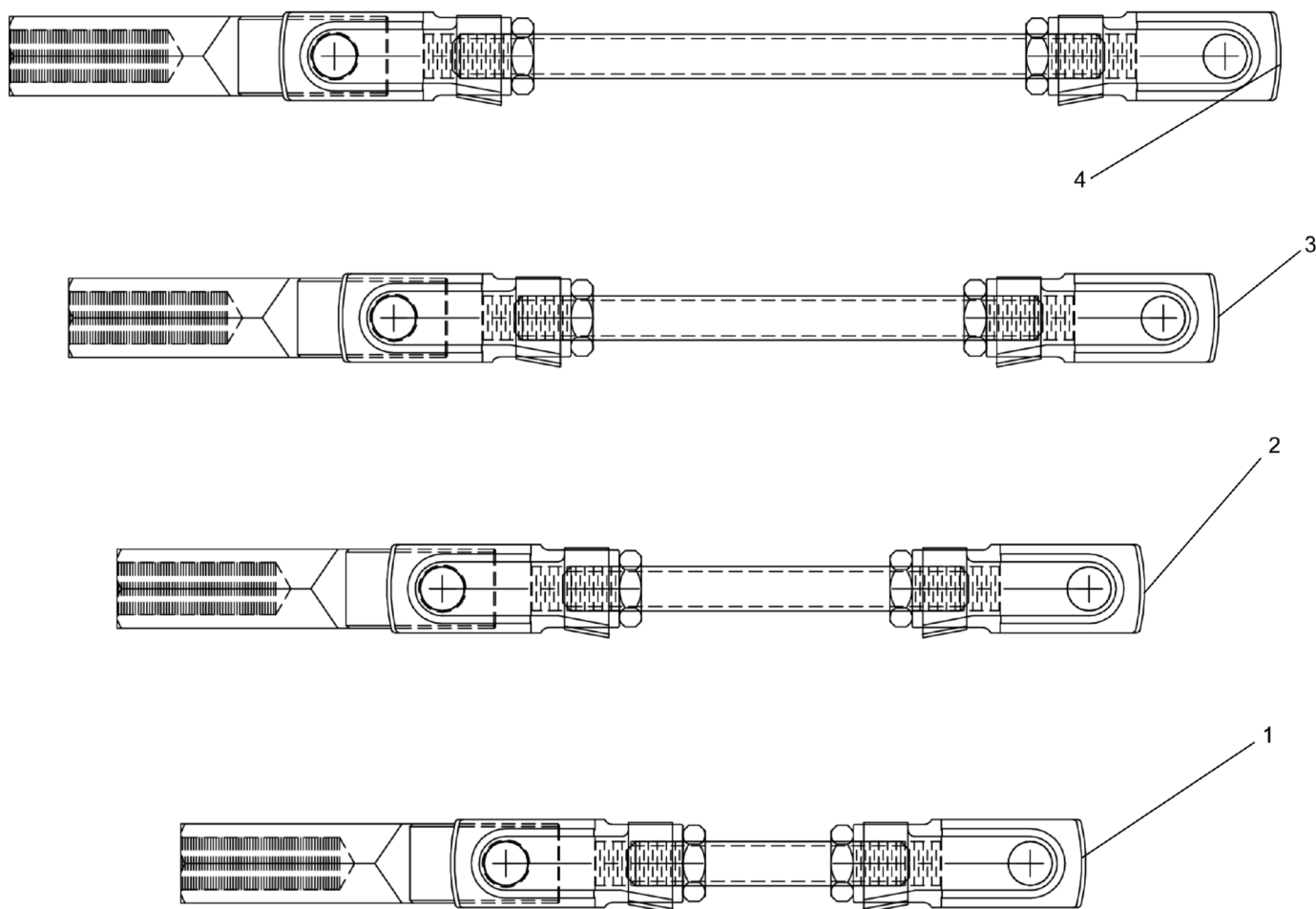
	RADIO REMOTE ASSEMBLY	DATE: Revised 04-2018	CHAPTER 3
		MODEL: 19-70	
		PAGE: 285	



REF	PART NO.	DESCRIPTION	QTY
	T127004 (Rev. A)	Kit Radio Remote Control System	
1	T127365	Radio Remote Transmitter	1
2	T127366	Receiver, Main Control	1
3	T127369	Wire Harness, Ranger 4 Crane	1
4	403-00107	Cigarette Lighter Charger	1
5*	T127100	Actuator Linkage Kit (see page 287)	1
6*	T127105	Actuator 3.0 Inch Travel	4

* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



REF	PART NO.	DESCRIPTION	QTY
	T127100 (Rev. A)	Actuator Linkage Kit	
1	T127396	Actuator Linkages SUB ASSY 3.72 (see page 288)	1
2	T127397	Actuator Linkages SUB ASSY 4.59 (see page 289)	1
3	T127367	Actuator Linkages SUB ASSY 5.46 (see page 290)	1
4	T127101	Actuator Linkages SUB ASSY 6.32 (see page 291)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ACTUATOR-LINKAGE-KIT

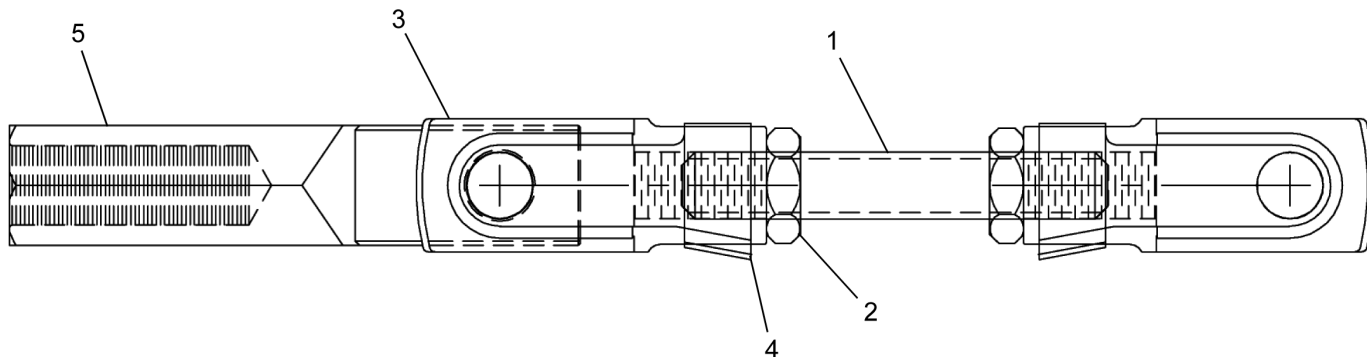
DATE: Revised 09-2017

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T127396 (Rev. A)	<i>Actuator Linkages SUB ASSY 3.72</i>	
1	806-00279-1	Actuator Link Thread Rod 5/16-24 X 2.00	1
2	N05-312F000-25	Nut, HEX Jam 0.3125-24, ST SQC G5	2
3	809-00510	Clevis Fork 0.3125	2
4	809-00511	Clevis Bracket Weldment 0.3125	2
5	809-00521	Valve Rod End 3/8-25 THRD 5/16 Pin	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ACTUATOR-LINKAGE-SUBASSY - 3.72

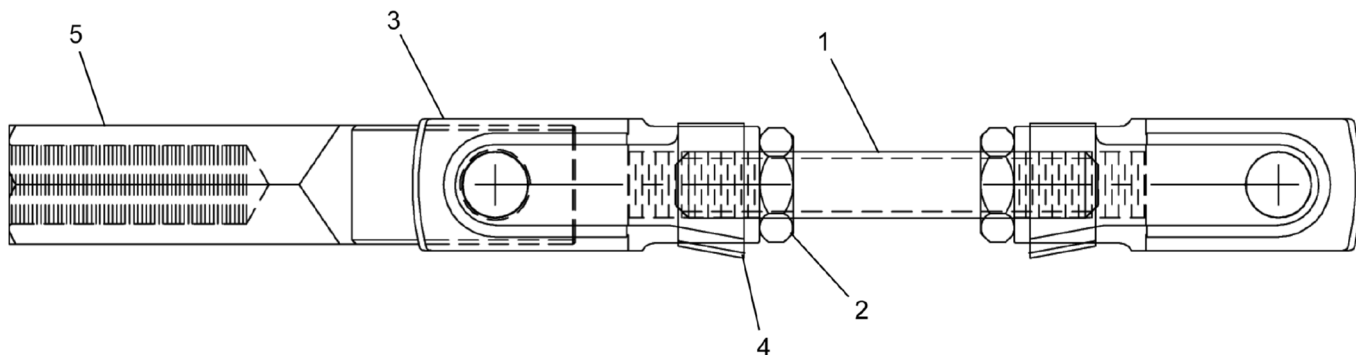
DATE: Revised 09-2017

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T127397 (Rev. A)	<i>Actuator Linkages SUB ASSY 4.59</i>	
1	806-00279-2	Actuator Link Thread Rod 5/16-24 X 2.88	1
2	N05-312F000-25	Nut, HEX Jam 0.3125-24, ST SQC G5	2
3	809-00510	Clevis Fork 0.3125	2
4	809-00511	Clevis Bracket Weldment 0.3125	2
5	809-00521	Valve Rod End 3/8-25 THRD 5/16 Pin	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ACTUATOR-LINKAGE-SUBASSY - 4.59

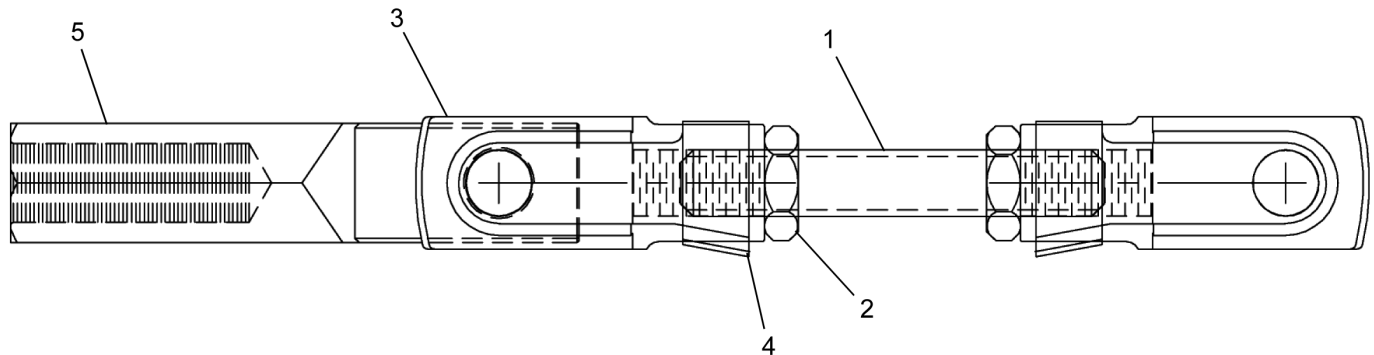
DATE: Revised 09-2017

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REF	PART NO.	DESCRIPTION	QTY
	T127367 (Rev. A)	Actuator Linkages SUB ASSY 5.46	
1	806-00279-3	Actuator Link Thread Rod 5/16-24 X 3.75	1
2	N05-312F000-25	Nut, HEX Jam 0.3125-24, ST SQC G5	2
3	809-00510	Clevis Fork 0.3125	2
4	809-00511	Clevis Bracket Weldment 0.3125	2
5	809-00521	Valve Rod End 3/8-25 THRD 5/16 Pin	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ACTUATOR-LINKAGE-SUBASSY - 5.46

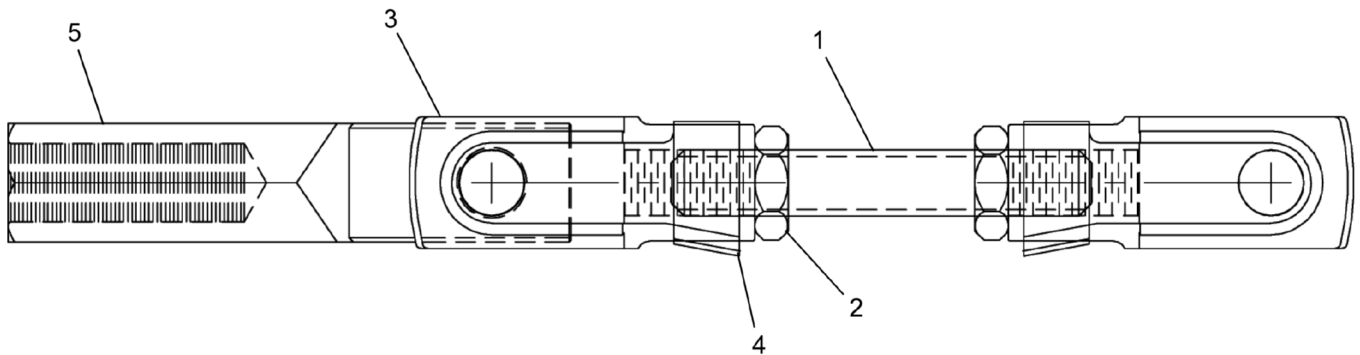
DATE: Revised 09-2017

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T127101 (Rev. A)	<i>Actuator Linkages SUB ASSY 6.32</i>	
1	806-00279-4	Actuator Link Thread Rod 5/16-24 X 4.63	1
2	N05-312F000-25	Nut, HEX Jam 0.3125-24, ST SQC G5	2
3	809-00510	Clevis Fork 0.3125	2
4	809-00511	Clevis Bracket Weldment 0.3125	2
5	809-00521	Valve Rod End 3/8-25 THRD 5/16 Pin	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



ACTUATOR-LINKAGE-SUBASSY - 6.32

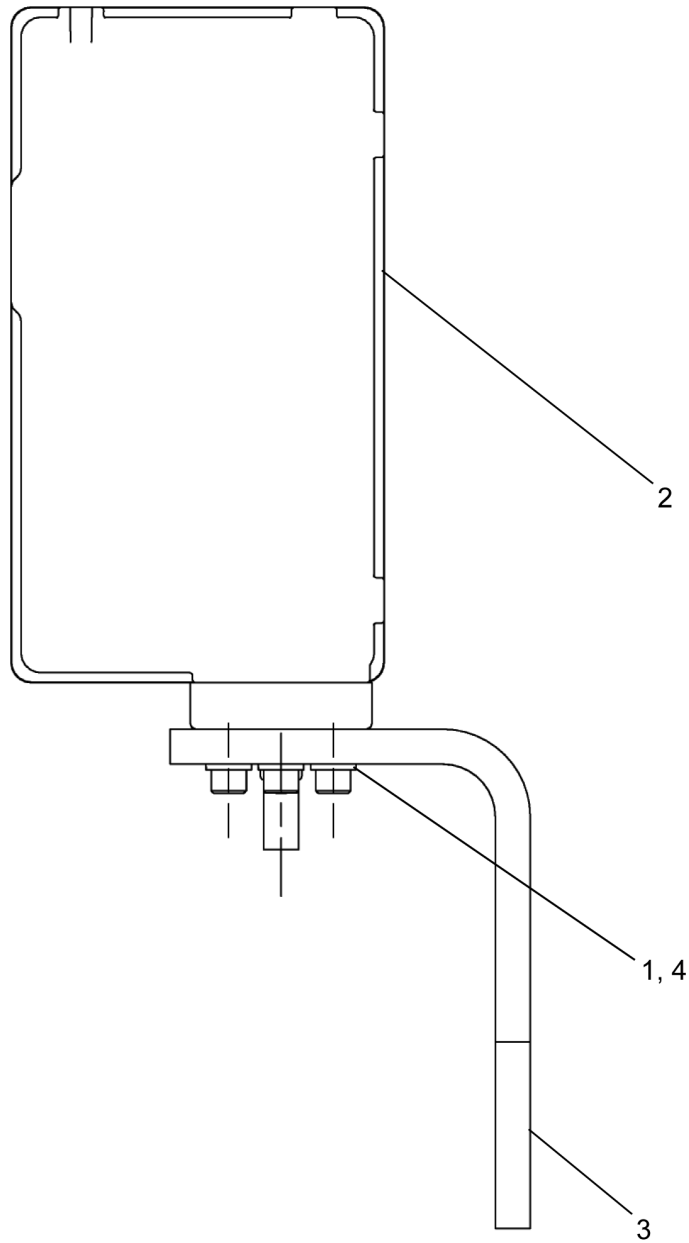
DATE: Revised 09-2017

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REF	PART NO.	DESCRIPTION	QTY
	T127106 (Rev. A)	<i>Radio Actuator Valve Assembly</i>	
1	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	16
2	T127105	Actuator 3.0 Inch Travel.....	Ref
3	T127086	Plate, Actuator MTG BRKT.....	1
4	S14-250C750-H2	SCR, SHCS 0.25-20 X 0.75, ST Z	16

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



RADIO REMOTE CONTROL ACTUATOR VALVE ASSEMBLY

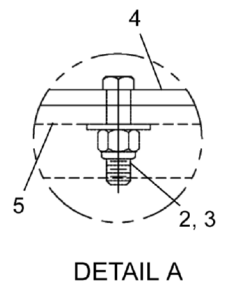
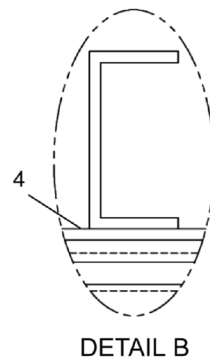
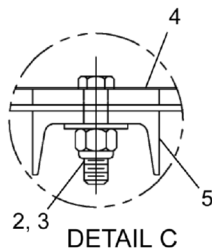
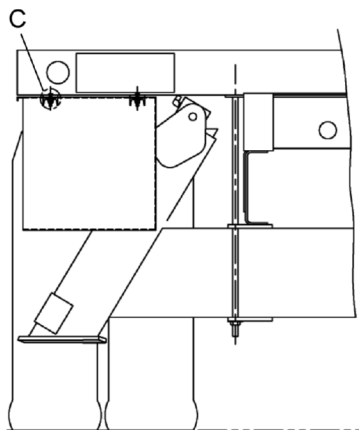
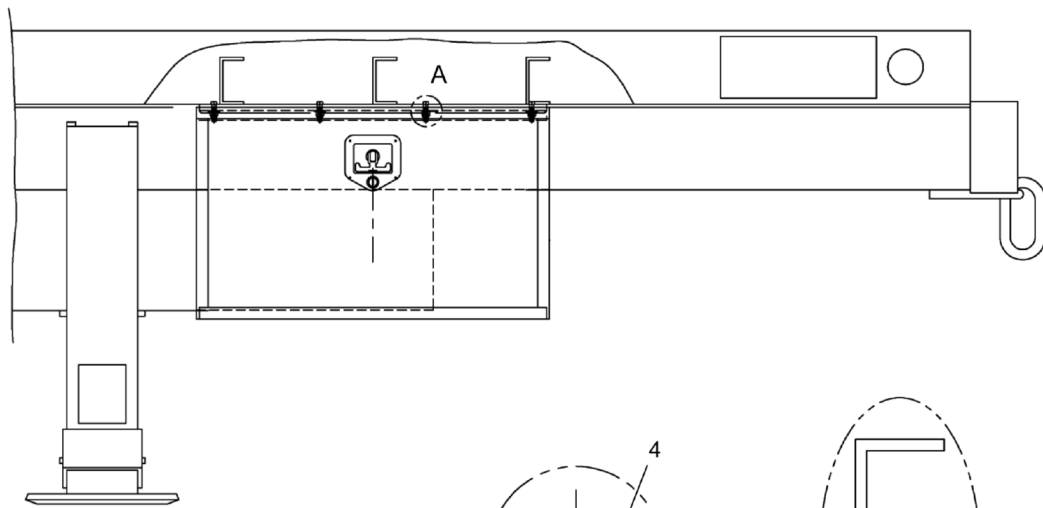
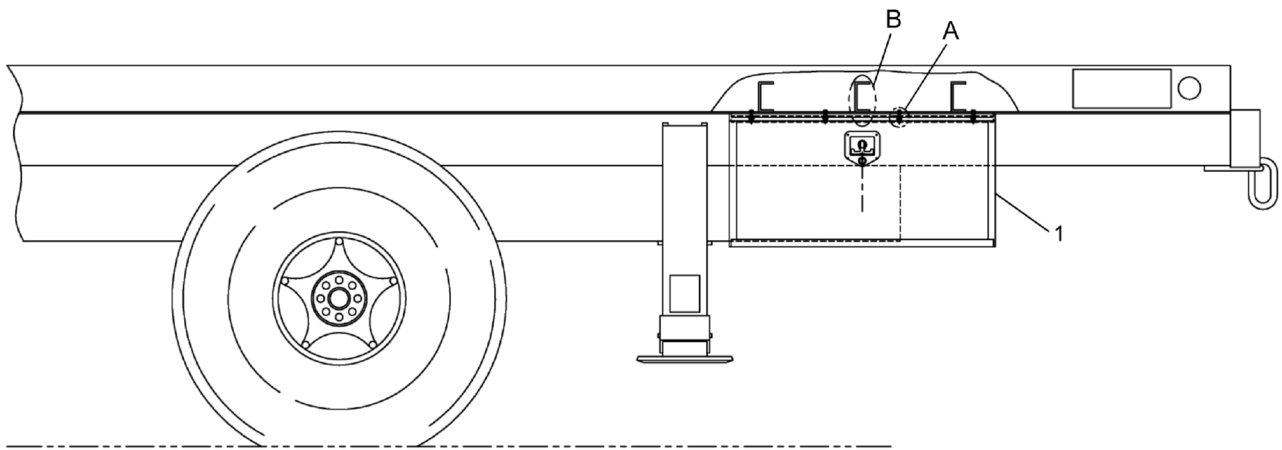
DATE: Revised 02-2013

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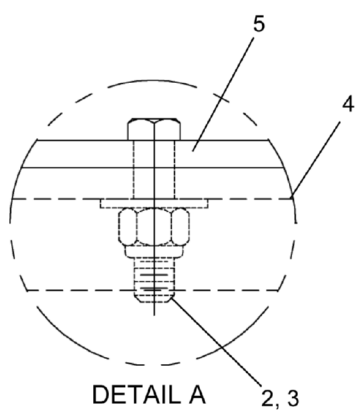
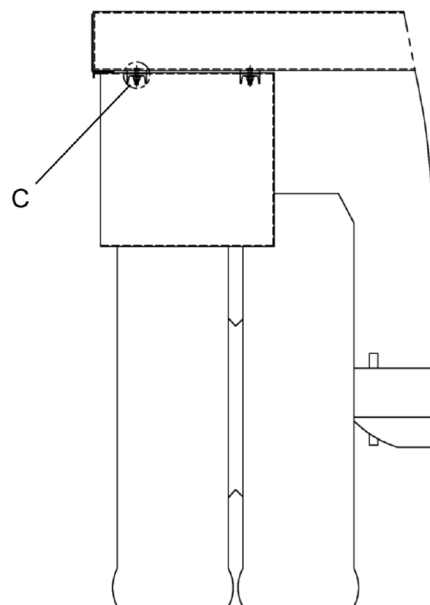
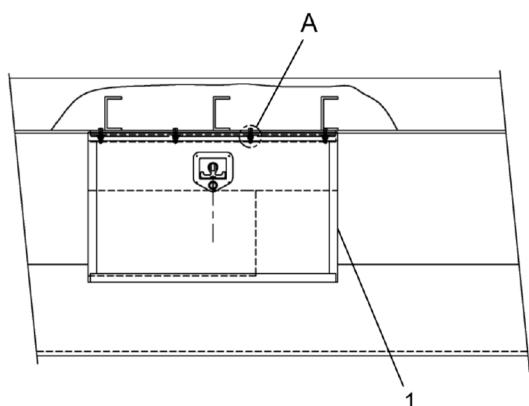
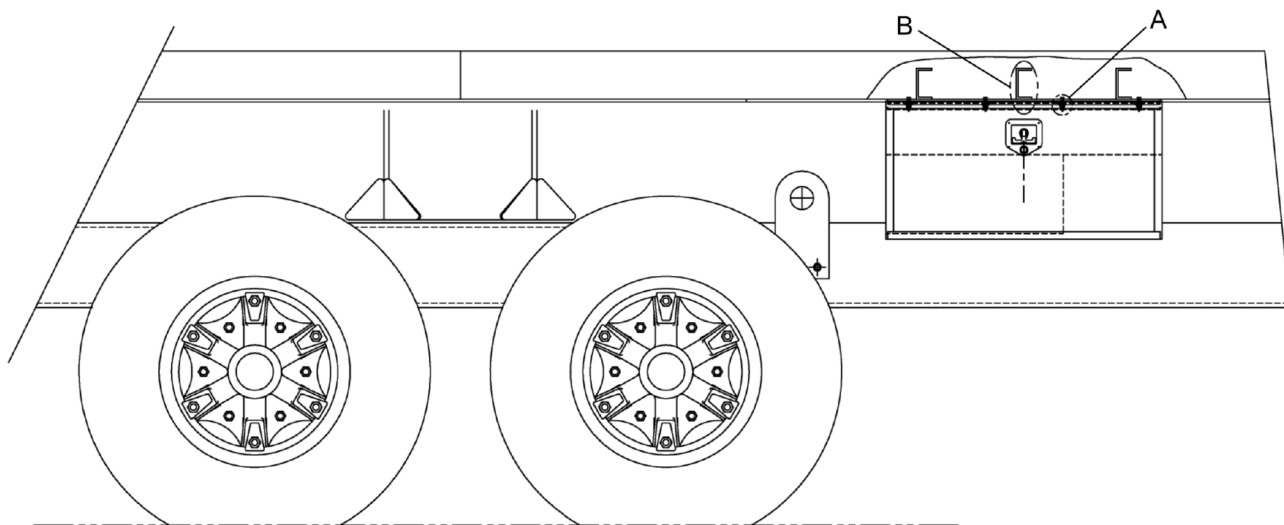


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

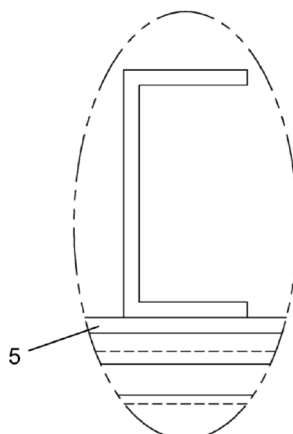
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	697-00007-1 (Rev. C)	<i>Tool Box Installation 36"</i>	
1	600-32312	Tool Box - 36 X 18 X 18	1
2	221-00032-2	Nylon Lock HEX Nut 3/8-16 Zinc	8
3	222-00025-8	Flat Washer, 3/8 Zinc PLTD	8
4	770-02848.3	Stud Bar - 36" Tool Box S/W	2
5	786-01897.3	36" Tool Box MTG Channel	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

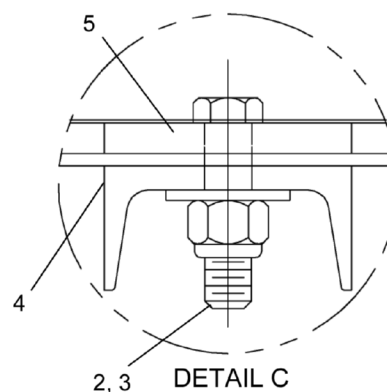
	TOOL BOX INSTALLATION - 36"	DATE: Revised 12-2013	CHAPTER 3
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DETAIL A



DETAIL B



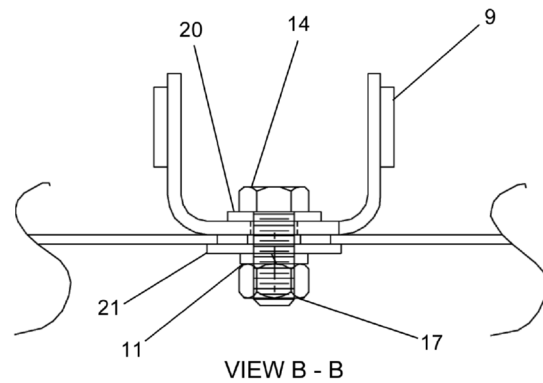
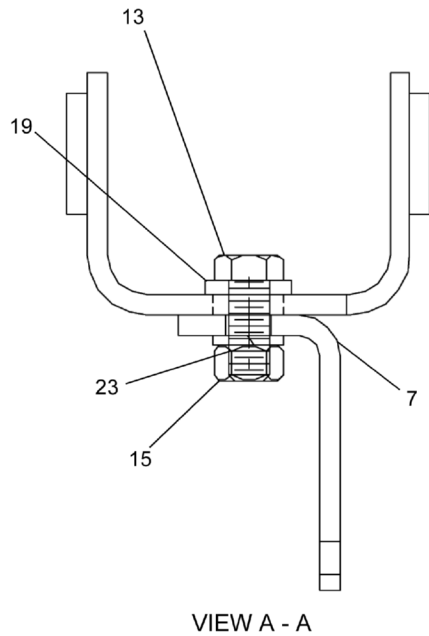
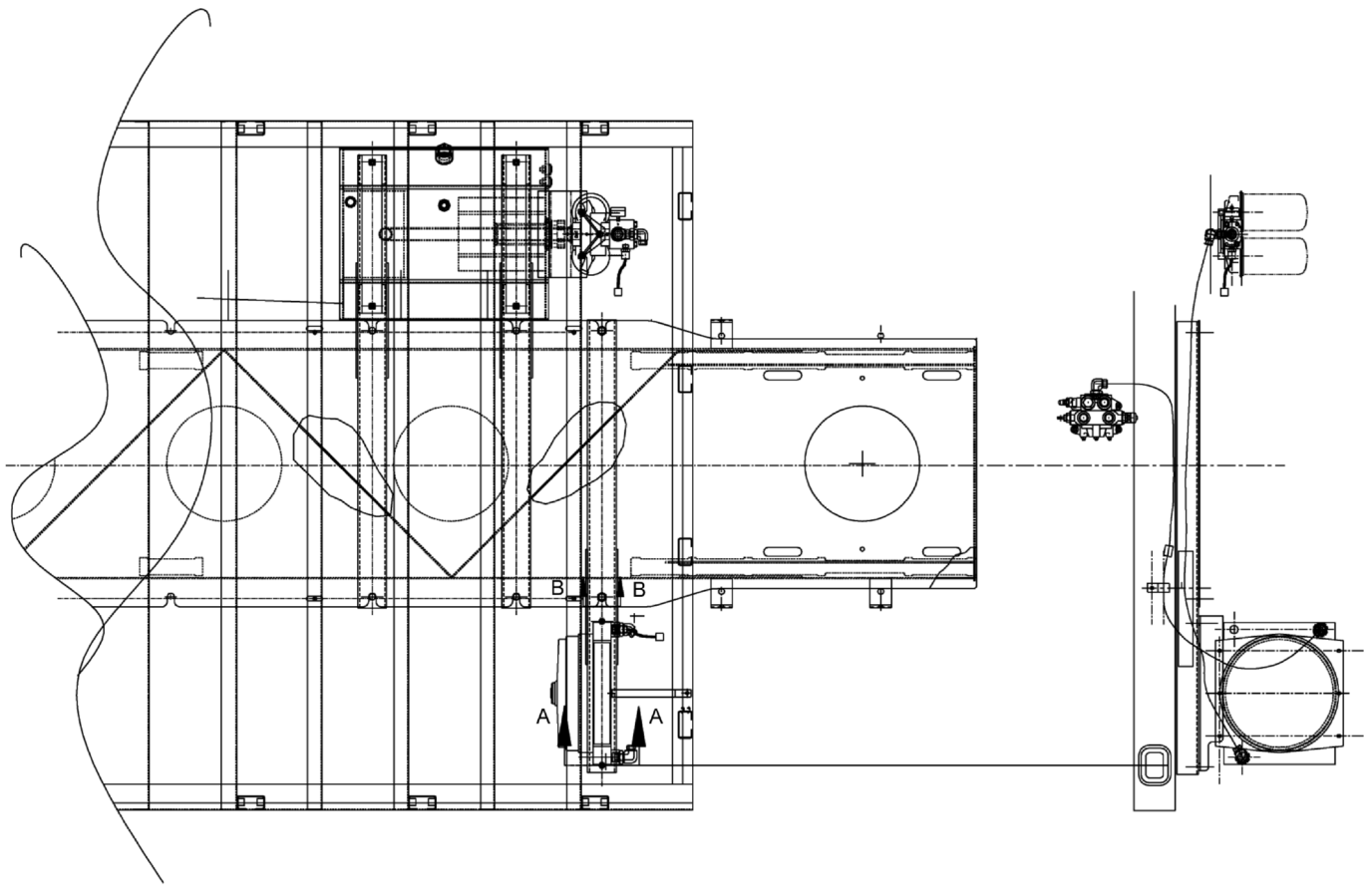
DETAIL C

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	697-00007-2 (Rev. C)	<i>Tool Box Installation 30"</i>	
1	600-32576	Tool Box - 30 x 18 x 18	1
2	221-00032-2	Nylon Lock HEX Nut 3/8-16 Zinc	8
3	222-00025-8	Flat Washer, 3/8 Zinc PLTD	8
4	786-01896.3	30" Tool Box MTG Channel	1
5	770-02847.3	Stud Bar - 30" Tool Box S/W	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	TOOL BOX INSTALLATION - 30"	DATE: Revised 07-2010	CHAPTER 3
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		PAGE: 296	



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



OIL COOLER INSTALLATION, CURB SIDE

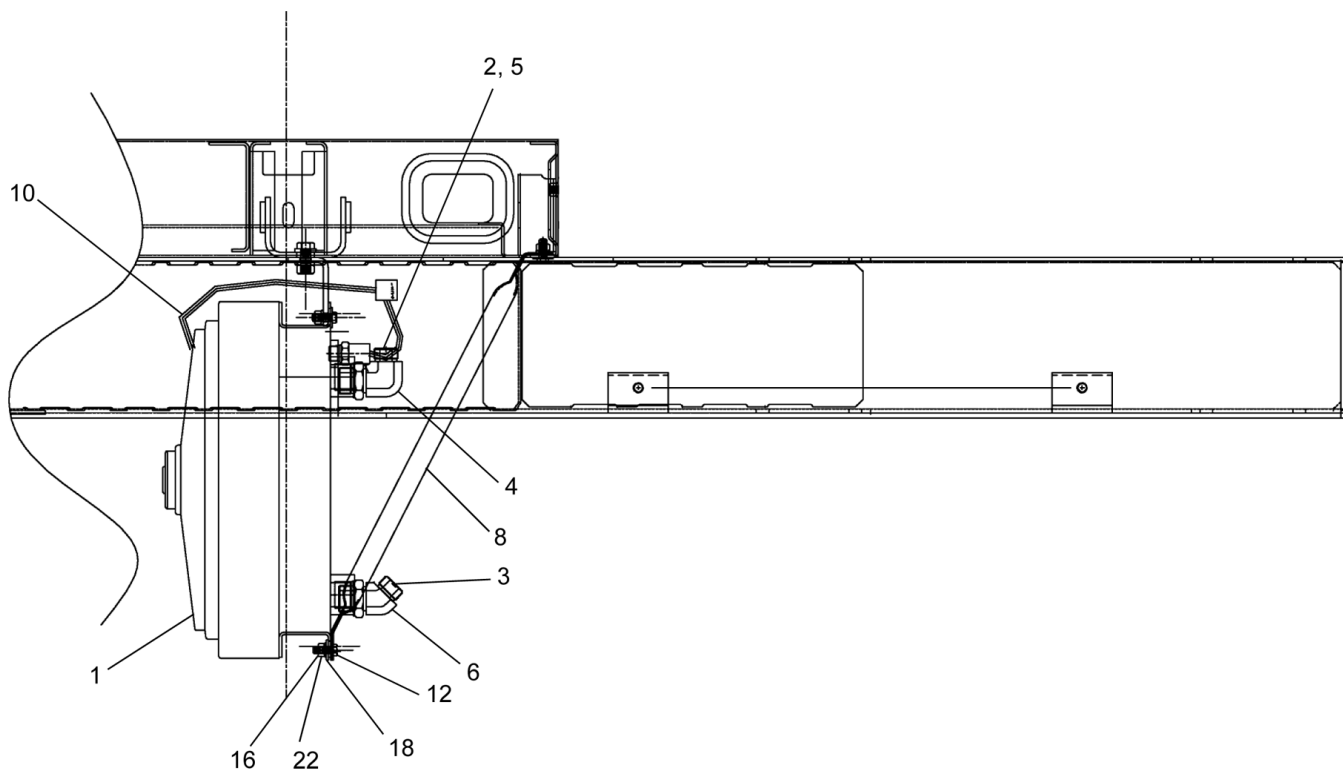
DATE: Revised 03-2018

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



OIL COOLER INSTALLATION, CURB SIDE

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01841 (Rev. C)	<i>Oil Cooler INSTL, Curb Side</i>	
1	501-05021	Oil Cooler, 64K 12V Fan	1
2	502-41013	Hose, Cooler Return	1
3	T119082	Hose ASSY Main Valve C.S.	1
4	514-59023	Elbow, 90, MOFS-12/MORB-16	1
5	514-67004	Elbow Swivel 90°	1
6	515-07003	Elbow 45°	1
7	785-02123	Angle, Cooler	1
8	785-02124	Angle, BRKT, Cooler	1
9	875-90370.3	MTG Bracket, HYD. RES.	1
10	400-25222	Wiring Harness, Oil Cooler	1
11	W07-750X000-20	WSH, LCK, MED SPLT 0.75, ST SQC	2
12	SHF-312CA00-25	SCR, HHCS FT 0.312-18 X 1.00, ST SQC G5	6
13	SHF-500CA25-25	SCR, HHCS FT 0.50-13 X 1.25, ST SQC G5	2
14	S01-750CA75-Y8	SCR, HHCS 0.75-10 X 1.75, ST SQC G8	2
15	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	2
16	N04-312C000-25	Nut, HEX 0.3125-18, ST SQC G5	6
17	N04-750C000-Y8	Nut, HEX 0.75-10, ST SQC G8	2
18	WAN-31NX000-20	WSH, FL TYP A-NRW 0.3125, ST SQC	6
19	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	2
20	WAH-75NX000-20	WSH, FL HRD A-NRW 0.75, ST SQC	2
21	WFD-750XB00-E8	WSH, FND R 0.75 X 2.00, SS18-8	2
22	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	6
23	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



OIL COOLER INSTALLATION, CURB SIDE

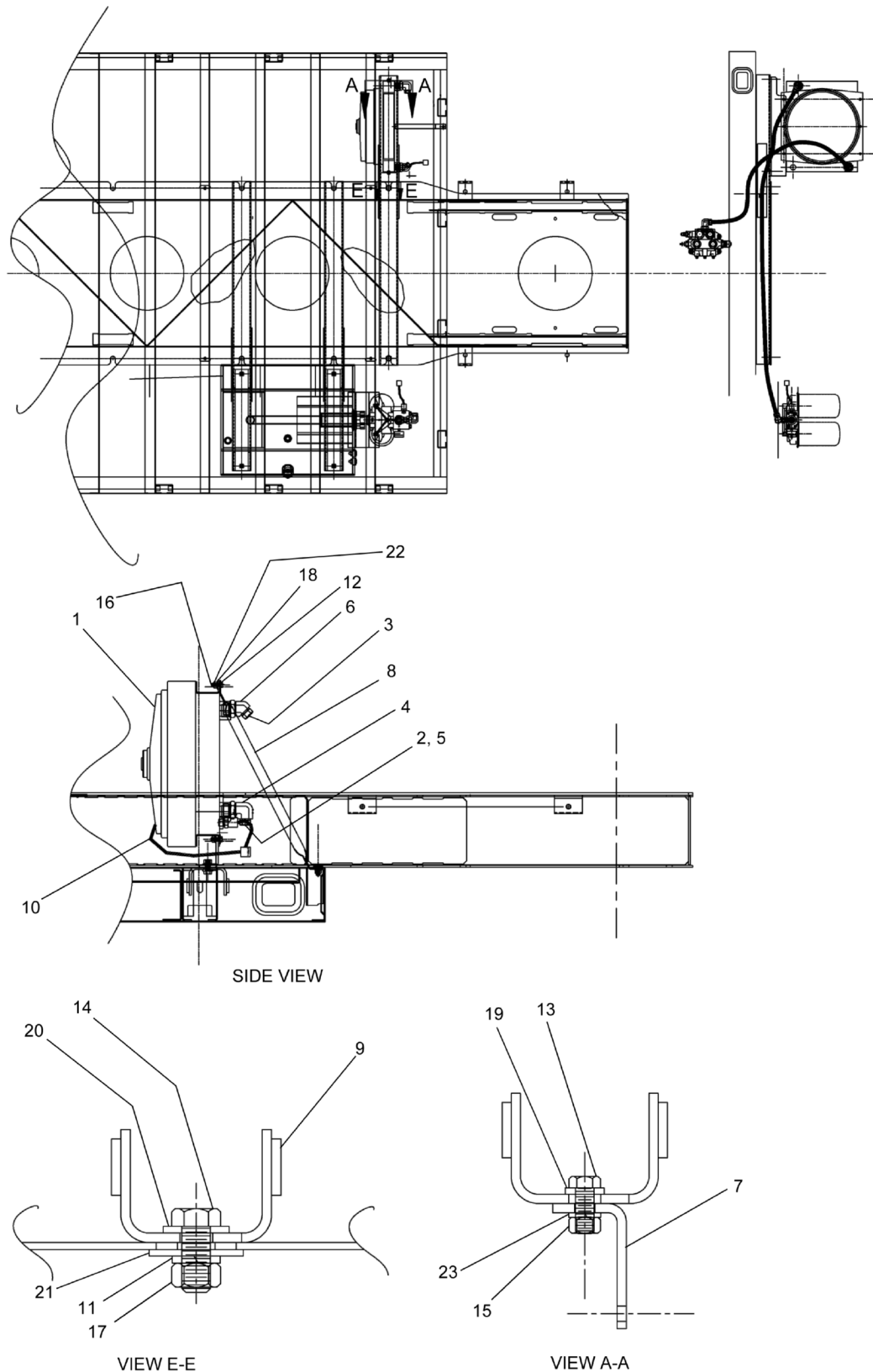
DATE: Revised 03-2018

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T119080 (Rev. A)	<i>Oil Cooler Installation, Street Side</i>	
1	501-05021	Oil Cooler, 64K 12V Fan	1
2	502-41013	Hose, Cooler Return	1
3	T119081	Hose ASSY Main Valve S.S.	1
4	514-59023	Elbow, 90, MOFS-12/MORB-16	1
5	514-67004	Elbow Swivel 90°	1
6	515-07003	Elbow 45°	1
7	785-02123	Angle, Cooler	1
8	785-02124	Angle, BRKT, Cooler	1
9	875-90370.3	MTG Bracket, HYD. RES.	1
10	400-25222	Wiring Harness, Oil Cooler	1
11	W07-750X000-20	WSH, LCK, MED SPLT 0.75, ST SQC	2
12	SHF-312CA00-25	SCR, HHCS FT 0.312-18 X 1.00, ST SQC G5	6
13	SHF-500CA25-25	SCR, HHCS FT 0.50-13 X 1.25, ST SQC G5	2
14	S01-750CA75-Y8	SCR, HHCS 0.75-10 X 1.75, ST SQC G8	2
15	N04-500C000-25	Nut, HEX 0.50-13, ST SQC G5	2
16	N04-312C000-25	Nut, HEX 0.3125-18, ST SQC G5	6
17	N04-750C000-Y8	Nut, HEX 0.75-10, ST SQC G8	2
18	WAN-31NX000-20	WSH, FL TYP A-NRW 0.3125, ST SQC	6
19	WAN-50NX000-20	WSH, FL TYP A-NRW 0.50, ST SQC	2
20	WAH-75NX000-Y2	WSH, FL HRD A-NRW 0.75, ST YZ	2
21	WFD-750XB00-E8	WSH, FND R 0.75 X 2.00, SS18-8	2
22	W07-312X000-20	WSH, LCK, MED SPLT 0.3125, ST Z	6
23	W07-500X000-20	WSH, LCK, MED SPLT 0.50, ST SQC	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



OIL COOLER INSTALLATION, STREET SIDE

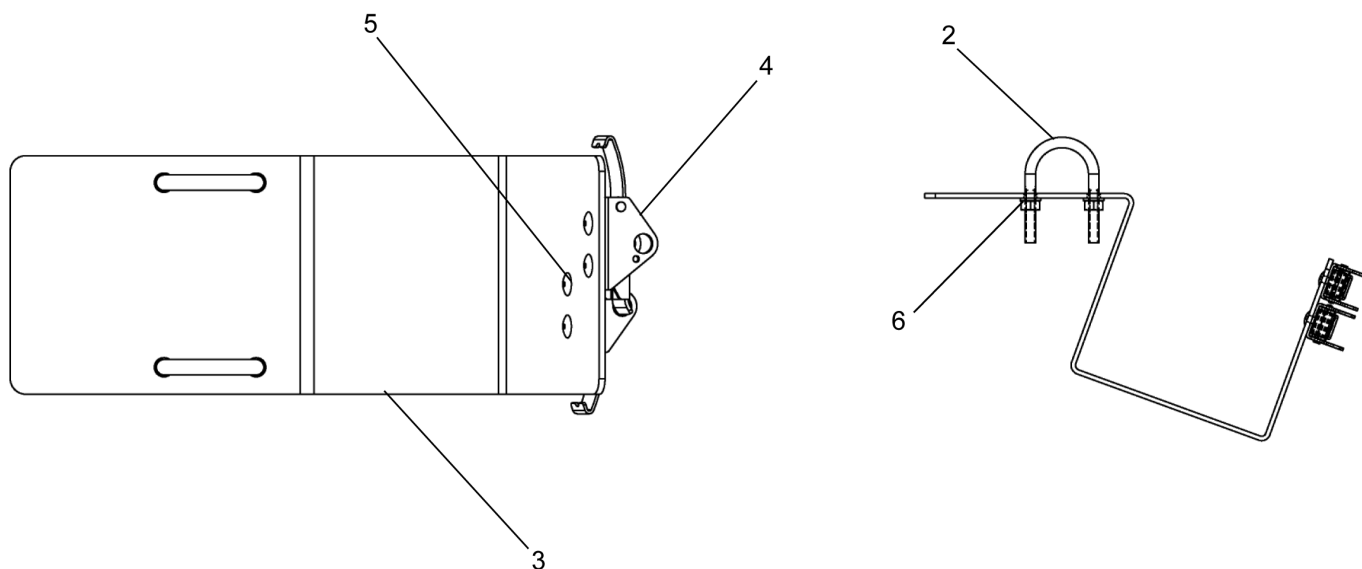
DATE: Released 01-2015

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REF	PART NO.	DESCRIPTION	QTY
	T128721 (Rev. A)	Radio Remote Transmitter INSTL With 2-Man Steel Personnel Platform	
1*	T127520	Bracket ASSY, Remote (Includes Items 2 thru 6)	1
2	220-99062	U-Bolt 1/4 (Fastenal 42001)	2
3	T127239	Bracket, Remote Mount	1
4	T127240	Latch, Draw	2
5	VBB-156X338-E1	RVT, BTNHD, BLND 0.187 X 0.338, SS301/302	4
6	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	4

* ITEM NOT SHOWN IN ILLUSTRATION

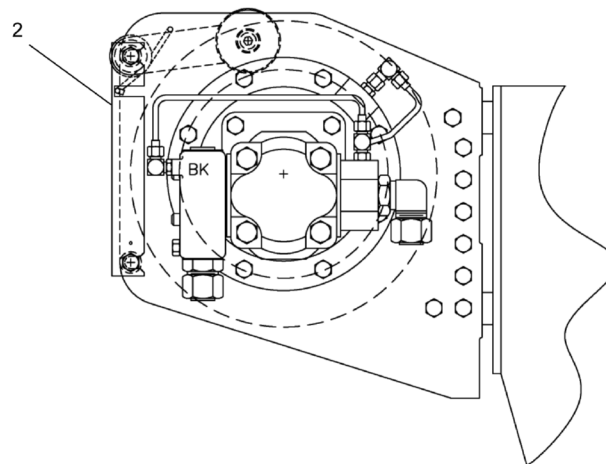
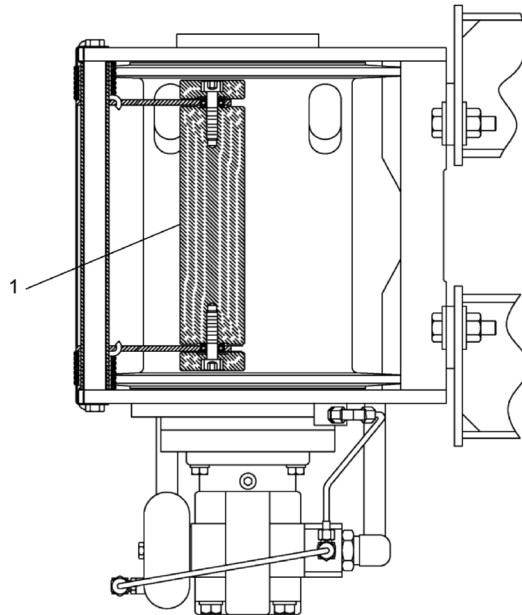
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



RADIO REMOTE TRANSMITTER INSTL WITH 2-MAN STEEL PERSONNEL PLATFORM

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REF	PART NO.	DESCRIPTION	QTY
	717-00054-2 (Rev. C)	Cable Tensioner INSTL 19-70	
1	901-00189	Tensioner, Winch	1
2	802-01649.2	Cover, Winch Cable	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH CABLE TENSIONER ASSEMBLY

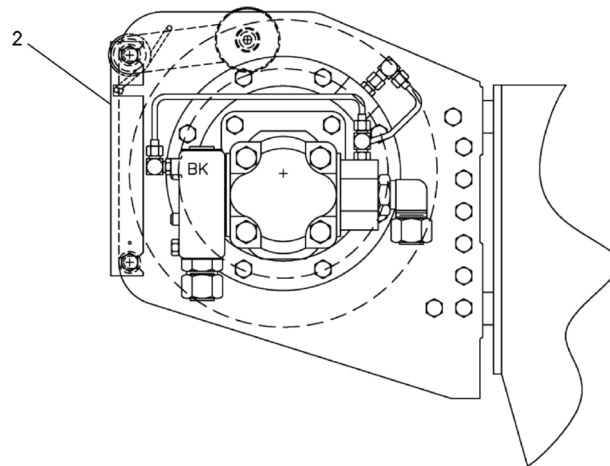
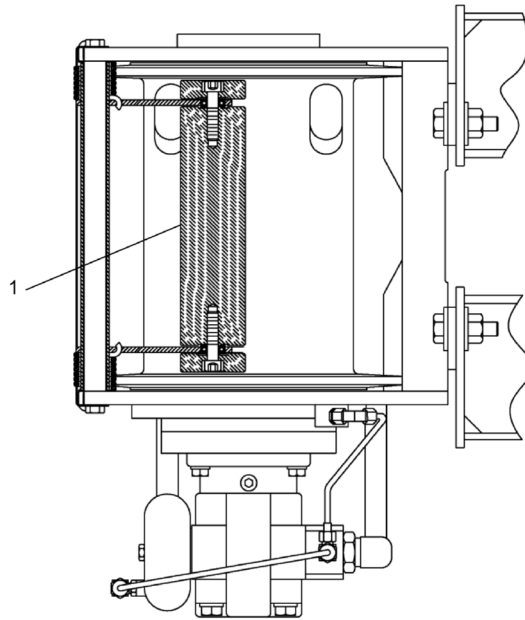
DATE: Released 02-2015

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REF	PART NO.	DESCRIPTION	QTY
	717-00054-2-R (Rev. C)	Cable Tensioner INSTL 19-70	
1	901-00189	Tensioner, Winch	1
2	802-01649.4	Cover, Winch Cable	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WINCH CABLE TENSIONER ASSEMBLY

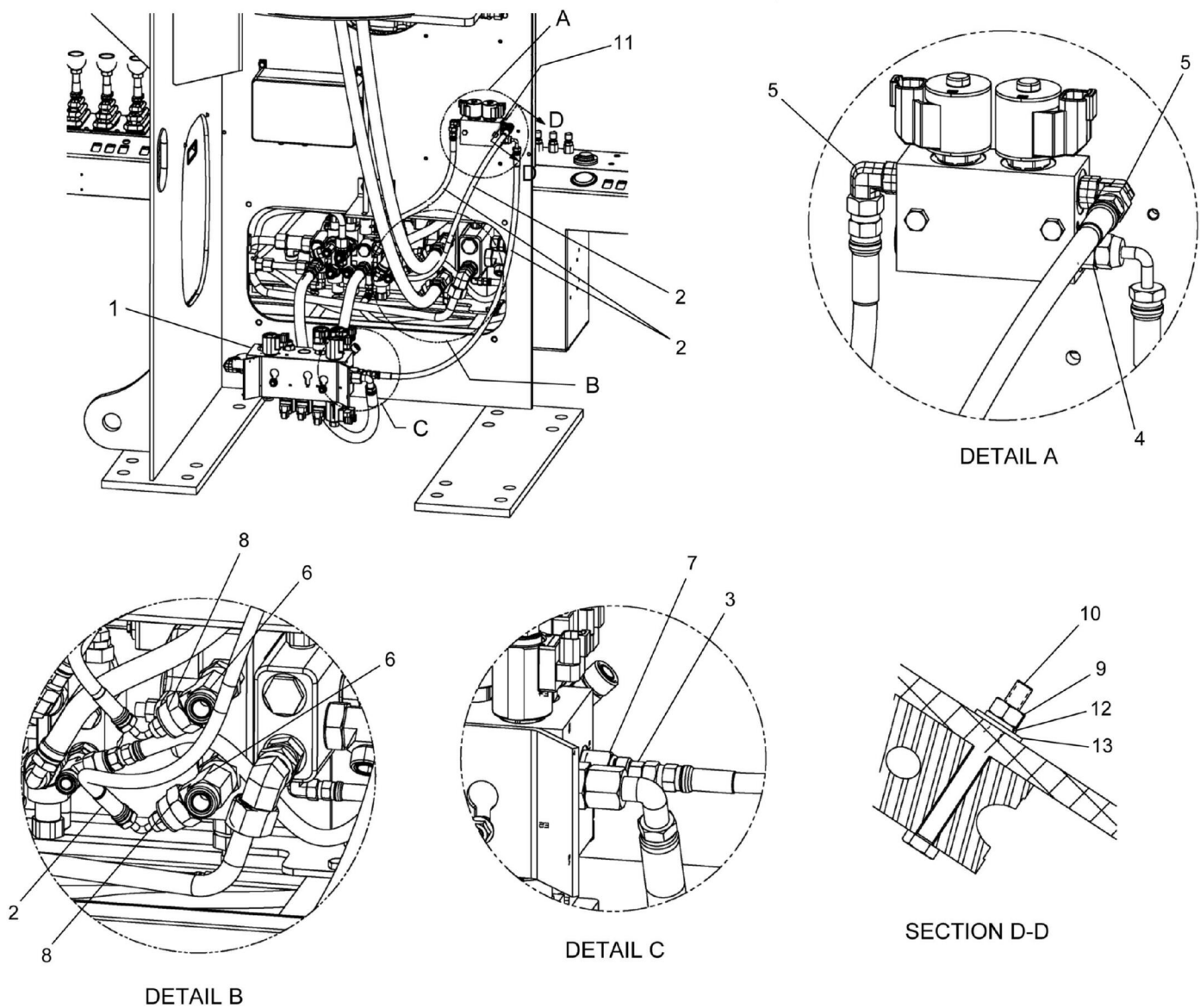
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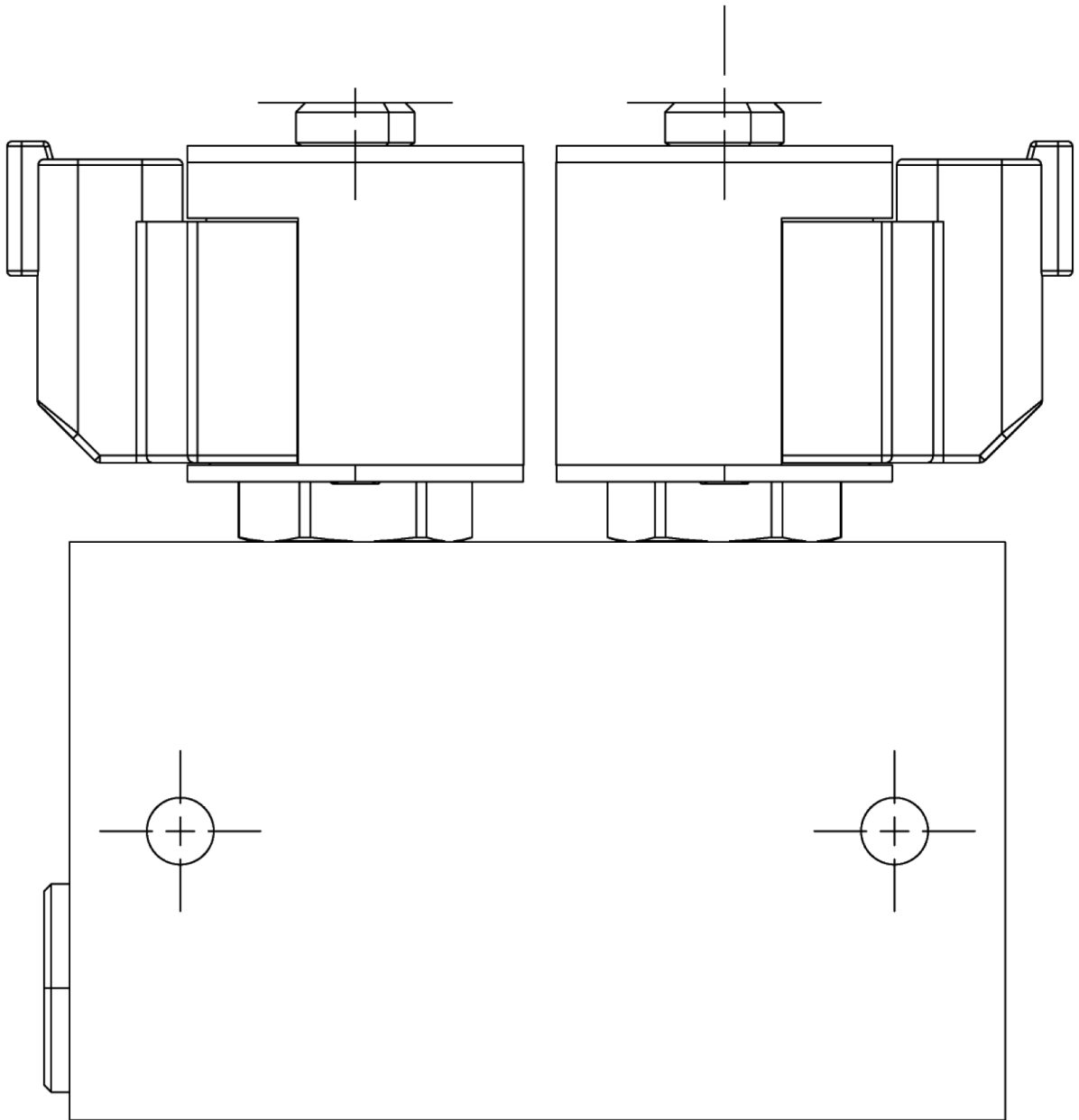


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01831 (Rev. D)	<i>Inching Valve Option</i>	
1	500-01837-01	HYD INSTL, MNFRM-Console (see page 128)	1
2	502-11340	Hose Assembly, Inch Valve	3
3	513-20017	Adapter, MOFS-4/MORB-4	1
4	513-20019	Adapter, MOFS-4/MORB-6	1
5	514_52005	Elbow, 90, MOFS-4/MORB-6	2
6	516-87006	Tee -12	2
7	517-00102	Reducer 10 ORB X 4 ORB	1
8	519-70034	Adapter, MOFS-4/FOFS-12SW	2
9	N04-250C000-25	Nut, HEX 0.25-20, ST SQC G5	2
10	S01-250CB50-25	Screw, HHCS 0.25-20 X 2.50, ST SQC G5	2
11	T125073	Valve, Inching (see page 307)	1
12	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST SQC	6
13	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T125073 (Rev. A)	<i>Valve, Inching</i>	
1*	225035	2X2 Body	1
2*	225036	Valve	2
3*	225037	12VDC Coil ERZ	2
4*	225038	SAE Port Plug	1
5*	225039	Orifice Disc	1
6*	225040	Orifice Disc	1

* ITEM NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

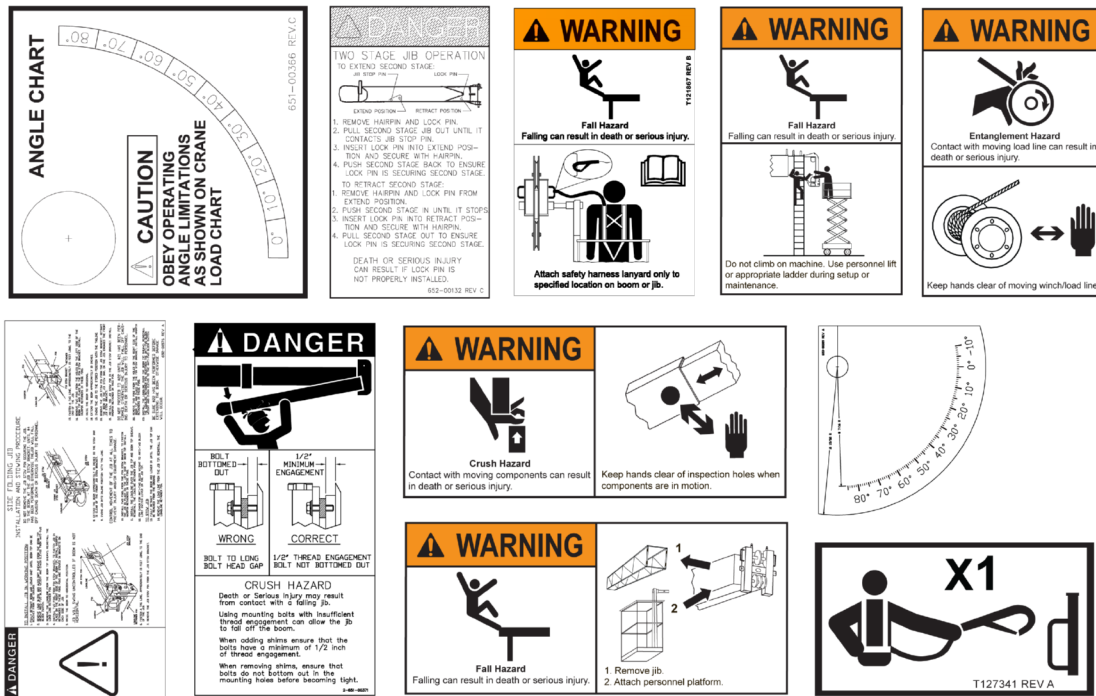
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PAINT & MARKING



1, 5

Decal Mainframe Turret & Console



2

Decal Boom

NOTE: Above decals are indicative only. For actual decals used on a crane model, refer to their respective part nos. in its parts table & drawings therefore.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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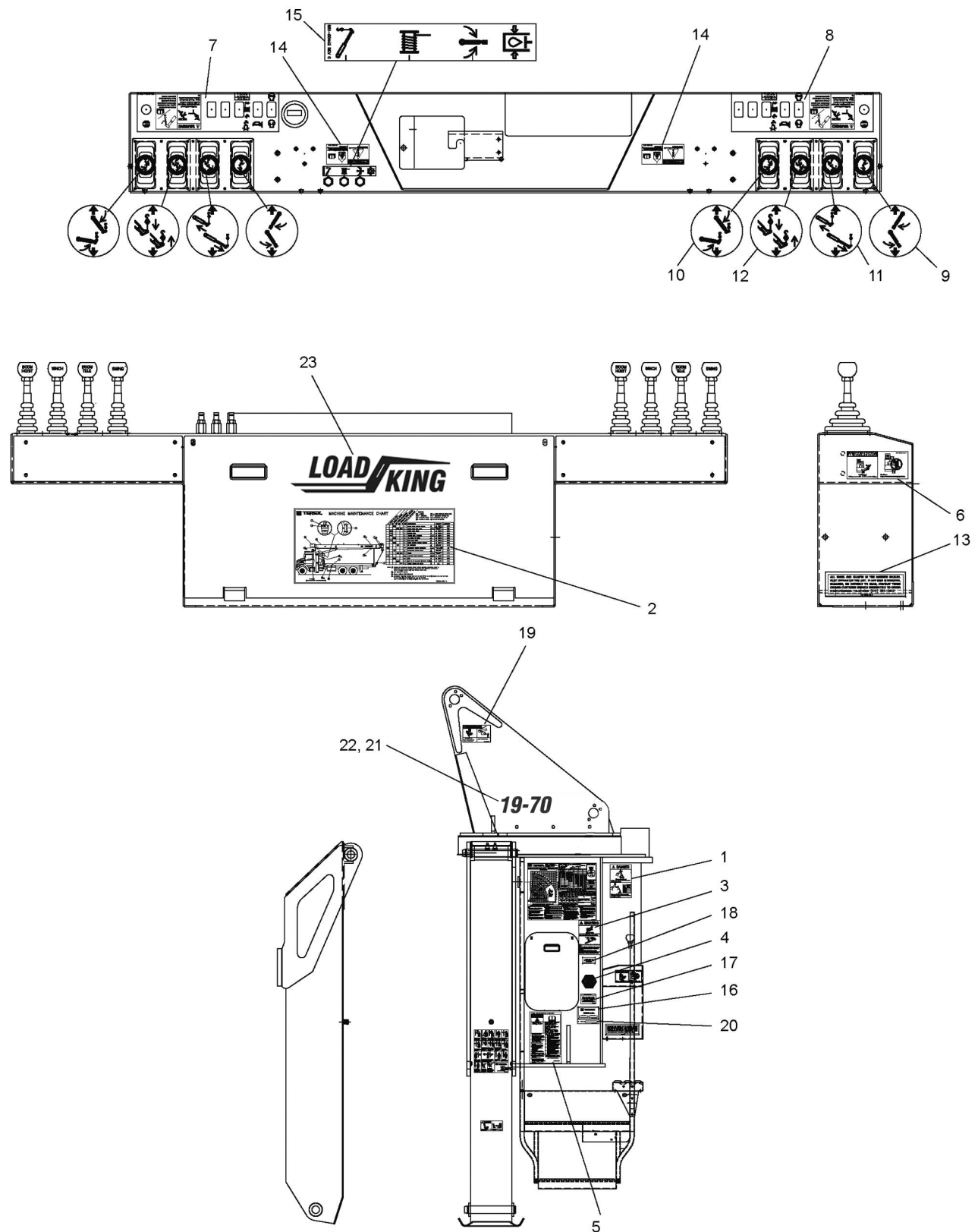
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	19-70-DECALS* (Rev. 00)	<i>PAINT & MARKING</i>	
1	655-00010-1	Decal Location Mainframe Turret & Console (see page 313)	1
1A	655-00010-2	Decal Location Mainframe Turret & Console (see page 316)	1
1B	655-00010-3	Decal Location Mainframe Turret & Console (see page 318)	1
1C	655-00010-4	Decal Location Mainframe Turret & Console (see page 320)	1
1D	655-00010-5	Decal Location Mainframe Turret & Console (see page 322)	1
2	655-00009-1	19-70 Boom Decals (see page 324)	1
2A	655-00009-2	19-70 Boom Decals (see page 326)	1
2B	655-00009-3	19-70 Boom Decals Single Axle W/Logo White (see page 328)	1
2C	655-00009-4	19-70 Boom Decals Tandem Axle W/Logo Black (see page 330)	1
2D	655-00009-5	19-70 Boom Decals Tandem Axle W/Logo White (see page 332)	1
2E	655-00009-6	Boom 2ND Stage English WHT (see page 334)	1
2F	655-00009-7	Boom Decals Tandem Axle W/Logo White (see page 336)	1
3**	T137480	Spanish Decals (see page 338)	1
4**	T128460	2-Man Steel Platform Manual, Decals- English (see page 341)	1
4A	T128461	2-Man Steel Platform Manual, Decals- Metric (see page 344)	1
4B	T128462	2-Man Steel Platform Manual, Decals- English (see page 347)	1
4C	T128463	2-Man Steel Platform Manual, Decals- Metric (see page 348)	1
5	655-00011	Decal Location Truck, Flatbed, & HYD Tank (see page 349)	1

* NOT PURCHASABLE AT THIS LEVEL

** NOT SHOWN IN ILLUSTRATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00010-1 (Rev. L)	<i>Decal Location Mainframe Turret & Console</i>	
1	1006835	Decal-Electrocution Hazard	2
2	655-00010-Decal-Machine	Decal-Machine Maintenance Chart (see page 315)	1
3	12400-1503	Decal-Skin Injection	2
4	CTOS-CIC	Decal, Product Support	1
5	1006870	Decal-Operating Instructions	2
6	1006867	Decal-No Ride Step/Platform	2
7	651-00460-1	Decal-Control Console, S.S.	1
8	651-00460-2	Decal-Control Console, C.S.	1
9	650-00329	Decal-Console Swing	2
10	650-00330	Decal-Console Boom	2
11	650-00411	Decal-Console Boom TELE	2
12	T106562	Decal-Console Winch	2
13	1006833	Decal-Warning All	2
14	651-00470	Decal-Personnel Lifting	2
15	651-00442	Decal-Test Port	1
16	12400-2032	Decal-Pin Number Plate	1
17	1007065	Decal, Product Registration	1
18	653-00229	Decal-Stability Certification	1
19	651-00425	Decal-Boom/Turret Crush Hazard	2
20	653-00416	Placard, Unit Number	1
21	1006837	Decal-19-70 Street Side Single	1
22	1006837	Decal-19-70 Curb Side Single	1
23	1007068	Decal-2.0" LOAD KING Logo (White Letters)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, MAINFRAME TURRET & CONSOLE

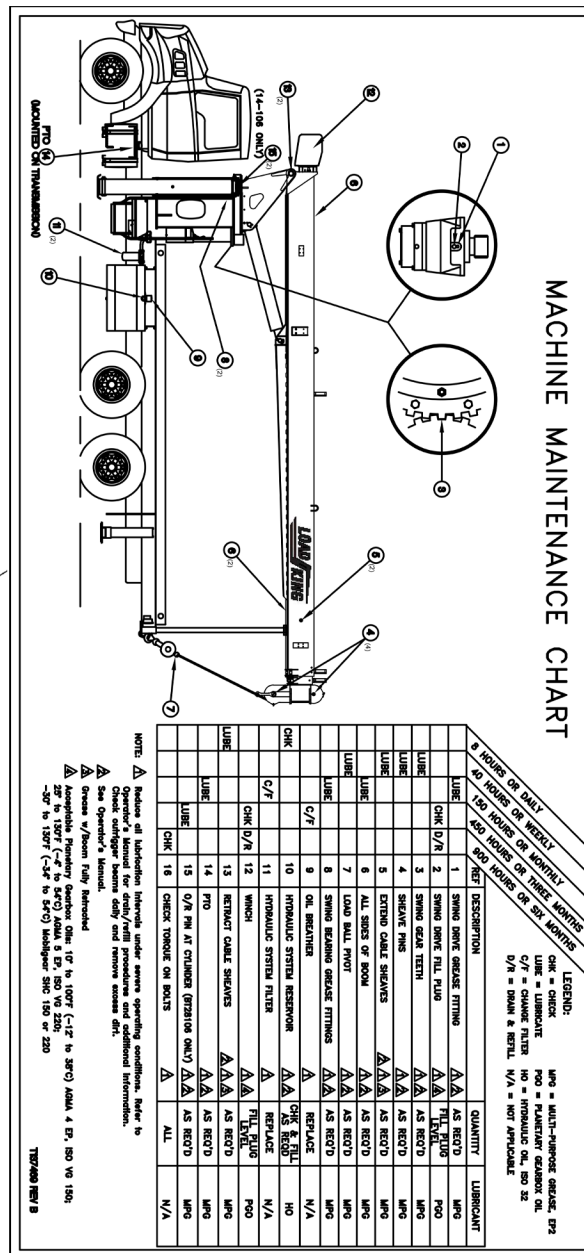
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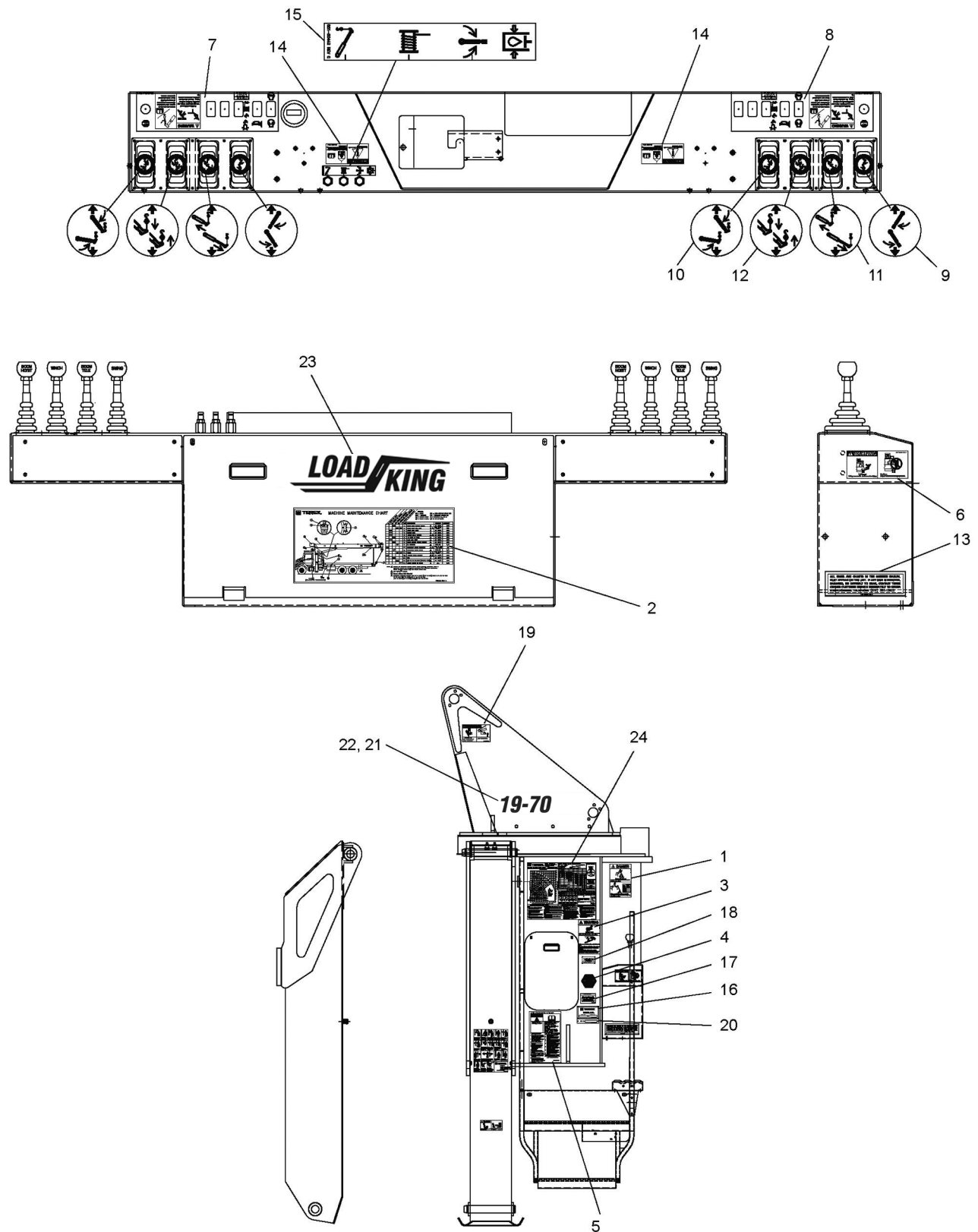
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REF	PART NO.	DESCRIPTION	QTY
1	655-00010-Decal-Machine (Rev. 00) 1006835	Decal-Machine Maintenance Chart Maintenance Chart	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00010-2 (Rev. L)	<i>Decal Location Mainframe Turret & Console</i>	
1	1006868	Decal-Electrocution Hazard	2
2	1006835	Decal-Machine Maintenance Chart (see page 315)	1
3	652-12400-15	Decal-Skin Injection	2
4	03 CTOS-CIC	Decal, Product Support	1
5	653-00569	Decal-Operating Instructions	2
6	1006867	Decal-No Ride Step/Platform	2
7	651-00460-1	Decal-Control Console, S.S.	1
8	651-00460-2	Decal-Control Console, C.S.	1
9	650-00329	Decal-Console Swing	2
10	650-00330	Decal-Console Boom	2
11	650-00411	Decal-Console Boom TELE	2
12	T106562	Decal-Console Winch	2
13	651-00253	Decal-Warning All	2
14	651-00470	Decal-Personnel Lifting	2
15	651-00442	Decal-Test Port	1
16	12400-2032	Decal-Pin Number Plate	1
17	1007065	Decal, Product Registration	1
18	653-00229	Decal-Stability Certification	1
19	651-00425	Decal-Boom/Turret Crush Hazard	2
20	653-00416	Placard, Unit Number	1
21	1006837	Decal-19-70 Street Side Single	1
22	1006837	Decal-19-70 Curb Side Single	1
23	1007068	Decal-2.0" LOAD KING Logo (White Letters)	1
24	T117387	Load Chart Single Axle (English)	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, MAINFRAME TURRET & CONSOLE

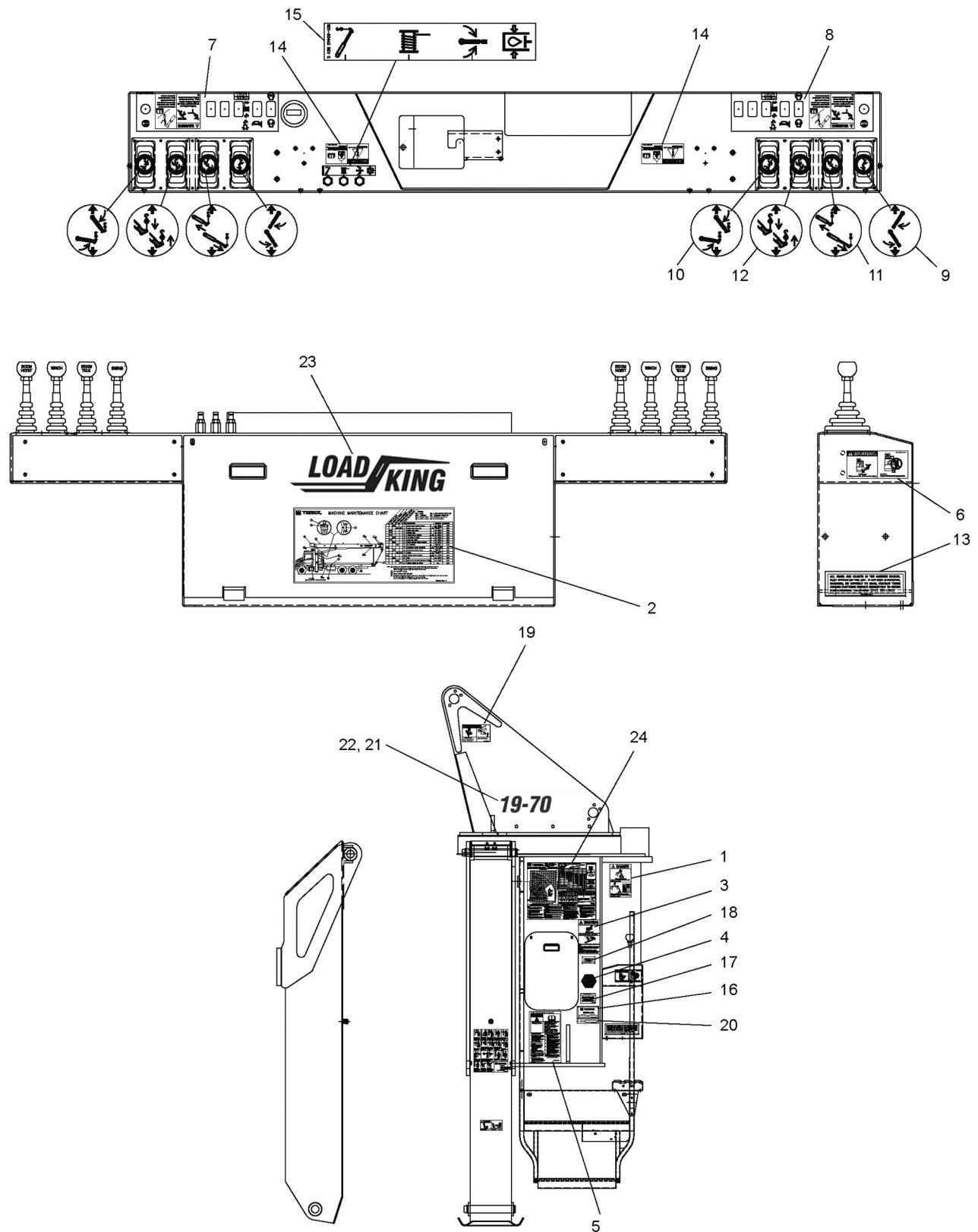
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00010-3 (Rev. L)	<i>Decal Location Mainframe Turret & Console</i>	
1	1006868	Decal-Electrocution Hazard	2
2	1006835	Decal-Machine Maintenance Chart (see page 315)	1
3	12400-1503	Decal-Skin Injection	2
4	CTOS-CIC	Decal, Product Support	1
5	1006870	Decal-Operating Instructions	2
6	1006867	Decal-No Ride Step/Platform	2
7	651-00460-1	Decal-Control Console, S.S.	1
8	651-00460-2	Decal-Control Console, C.S.	1
9	650-00329	Decal-Console Swing	2
10	650-00330	Decal-Console Boom	2
11	650-00411	Decal-Console Boom TELE	2
12	T106562	Decal-Console Winch	2
13	651-00253	Decal-Warning All	2
14	651-00470	Decal-Personnel Lifting	2
15	651-00442	Decal-Test Port	1
16	12400-2032	Decal-Pin Number Plate	1
17	1007065	Decal, Product Registration	1
18	653-00229	Decal-Stability Certification	1
19	651-00425	Decal-Boom/Turret Crush Hazard	2
20	653-00416	Placard, Unit Number	1
21	1006837	Decal-19-70 Street Side Single	1
22	1006837	Decal-19-70 Curb Side Single	1
23	1007068	Decal-2.0" LOAD KING Logo (White Letters)	1
24	T117388	Load Chart Single Axle (Metric)	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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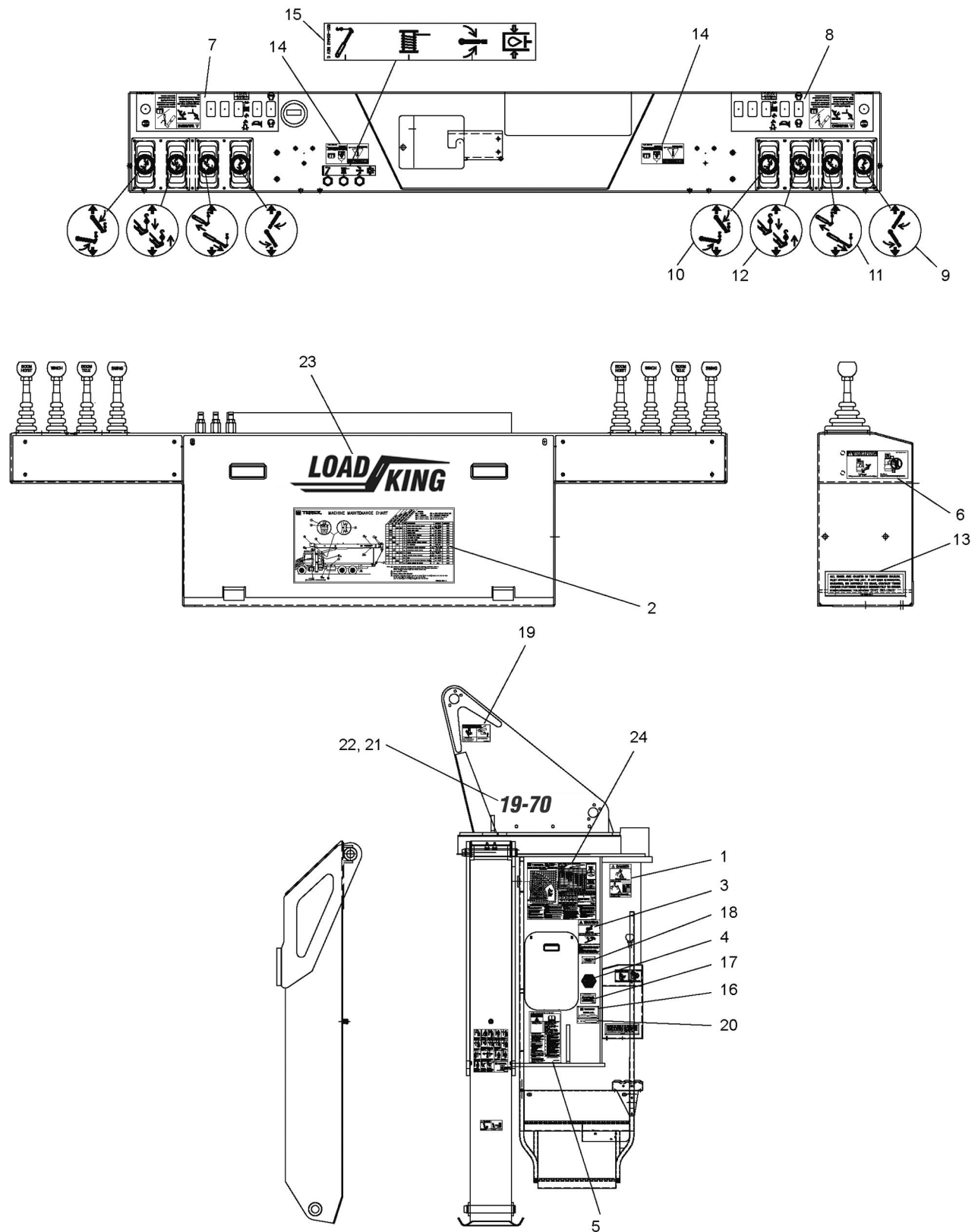
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00010-4 (Rev. L)	<i>Decal Location Mainframe Turret & Console</i>	
1	1006868	Decal-Electrocution Hazard	2
2	1006835	Decal-Machine Maintenance Chart (see page 315)	1
3	12400-1503	Decal-Skin Injection	2
4	CTOS-CIC	Decal, Product Support	1
5	1006870	Decal-Operating Instructions	2
6	1006867	Decal-No Ride Step/Platform	2
7	651-00460-1	Decal-Control Console, S.S.	1
8	651-00460-2	Decal-Control Console, C.S.	1
9	650-00329	Decal-Console Swing	2
10	650-00330	Decal-Console Boom	2
11	650-00411	Decal-Console Boom TELE	2
12	T106562	Decal-Console Winch	2
13	651-00253	Decal-Warning All	2
14	651-00470	Decal-Personnel Lifting	2
15	651-00442	Decal-Test Port	1
16	12400-2032	Decal-Pin Number Plate	1
17	1007065	Decal, Product Registration	1
18	653-00229	Decal-Stability Certification	1
19	651-00425	Decal-Boom/Turret Crush Hazard	2
20	653-00416	Placard, Unit Number	1
21	1006837	Decal-19-70 Street Side Single	1
22	1006837	Decal-19-70 Curb Side Single	1
23	1007068	Decal-2.0" LOAD KING Logo (White Letters)	1
24	T117389	Load Chart Tandem Axle (English)	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, MAINFRAME TURRET & CONSOLE

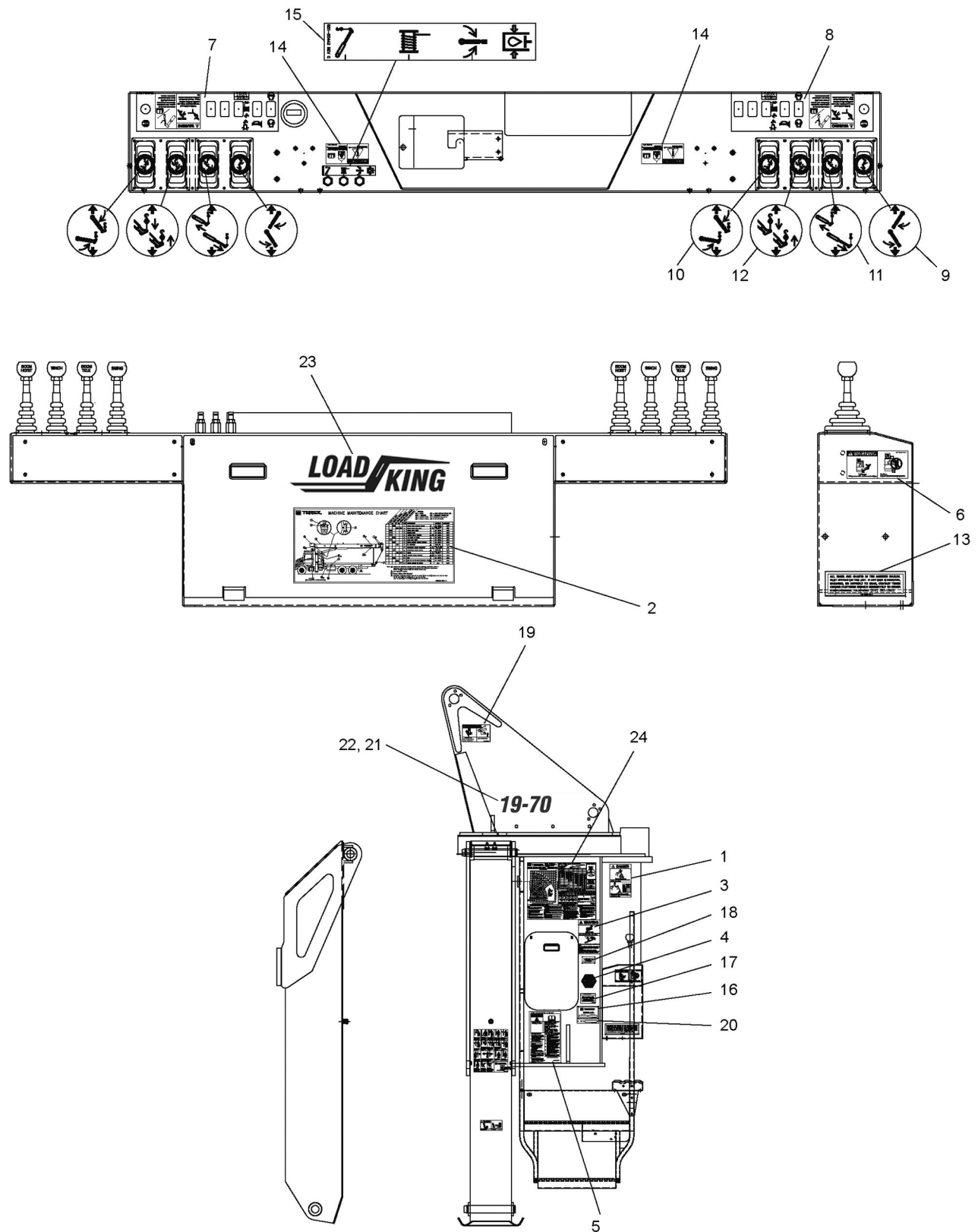
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00010-5 (Rev. L)	<i>Decal Location Mainframe Turret & Console</i>	
1	1006868	Decal-Electrocution Hazard	2
2	1006835	Decal-Machine Maintenance Chart (see page 315)	1
3	12400-1503	Decal-Skin Injection	2
4	CTOS-CIC	Decal, Product Support	1
5	1006870	Decal-Operating Instructions	2
6	1006867	Decal-No Ride Step/Platform	2
7	651-00460-1	Decal-Control Console, S.S.	1
8	651-00460-2	Decal-Control Console, C.S.	1
9	650-00329	Decal-Console Swing	2
10	650-00330	Decal-Console Boom	2
11	650-00411	Decal-Console Boom TELE	2
12	T106562	Decal-Console Winch	2
13	651-00253	Decal-Warning All	2
14	651-00470	Decal-Personnel Lifting	2
15	651-00442	Decal-Test Port	1
16	12400-2032	Decal-Pin Number Plate	1
17	1007065	Decal, Product Registration	1
18	653-00229	Decal-Stability Certification	1
19	651-00425	Decal-Boom/Turret Crush Hazard	2
20	653-00416	Placard, Unit Number	1
21	1006837	Decal-19-70 Street Side Single	1
22	1006837	Decal-19-70 Curb Side Single	1
23	1007068	Decal-2.0" LOAD KING Logo (White Letters)	1
24	T117390	Load Chart Tandem Axle (Metric)	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, MAINFRAME TURRET & CONSOLE

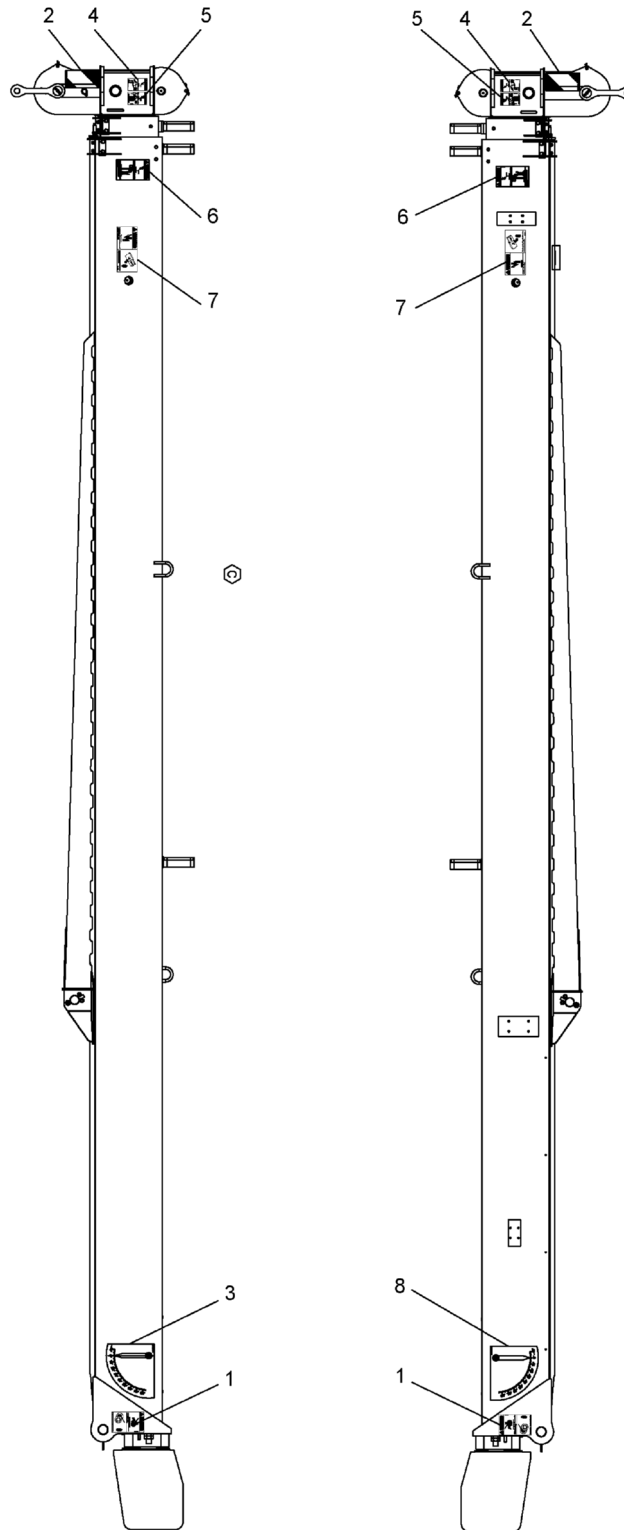
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, BOOM

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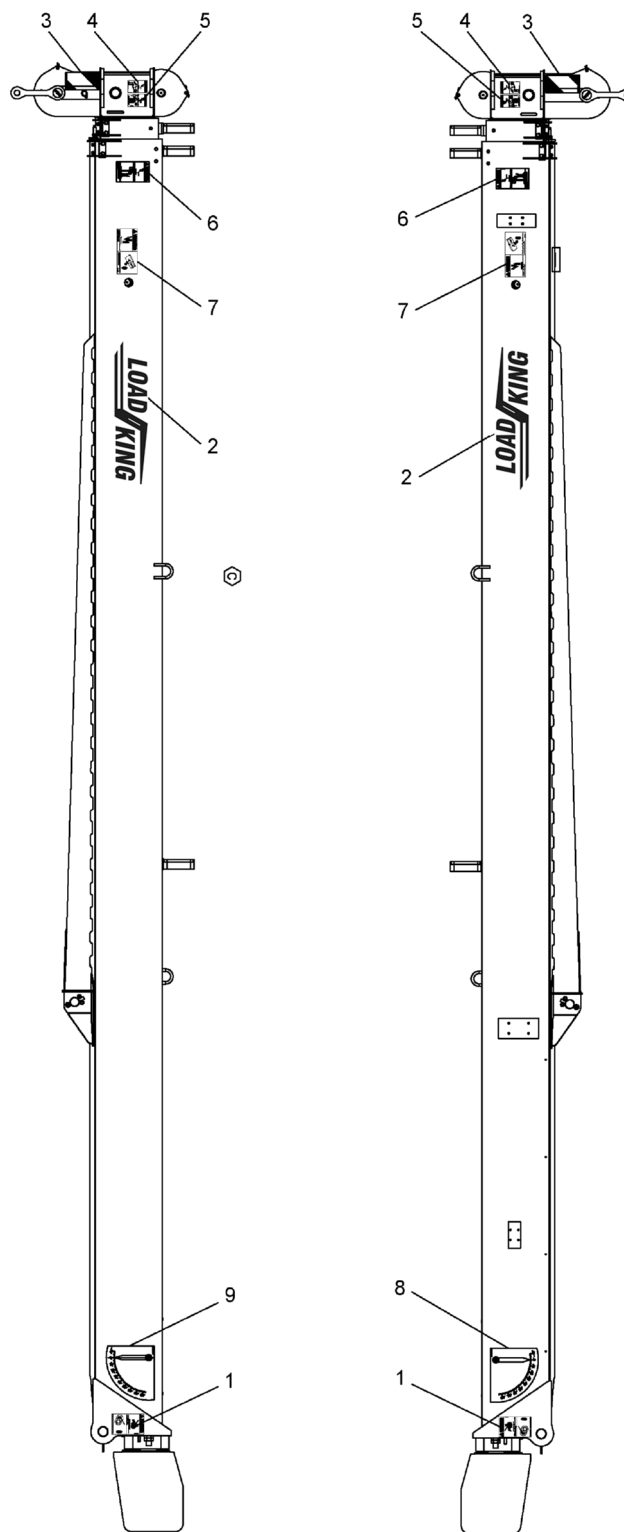
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00009-1 (Rev. E)	<i>19-70 Boom Decals</i>	
1	651-00424	Decal - Loadline Crush Hazard	2
2	1006873	Decal - Boom Angle Indicator - LH	1
3	T105672	Decal - Boom Head Safety Stripe	2
4	T121866	Decal - Jib Removal W/Lift	2
5	T121867	Decal - Lanyard Hook Location	2
6	651-00416	Decal - Safe Elevated Access	2
7	653-00411	Decal - Crush/Cut Hazard	2
8	1006872	Decal - Boom Angle Indicator - RH	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



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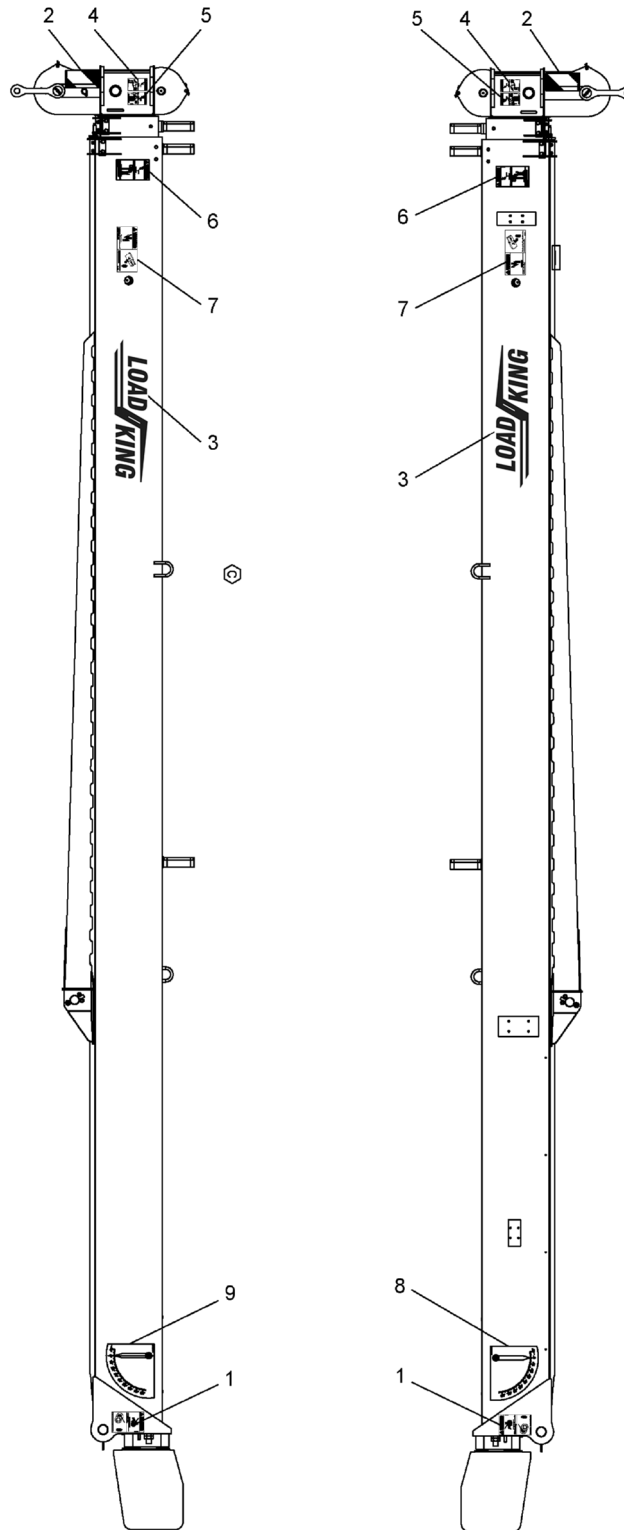
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00009-2 (Rev. E)	<i>19-70 Boom Decals</i>	
1	651-00424	Decal - Loadline Crush Hazard	2
2	1007066	Decal - LOAD KING Logo (Black) 5.4" Crown	2
3	T105672	Decal - Boom Head Safety Stripe	2
4	T121866	Decal - Jib Removal W/Lift	2
5	T121867	Decal - Lanyard Hook Location	2
6	651-00416	Decal - Safe Elevated Access	2
7	653-00411	Decal - Crush/Cut Hazard	2
8	1006872	Decal - Boom Angle Indicator - RH	1
9	1006873	Decal - Boom Angle Indicator - LH	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, BOOM

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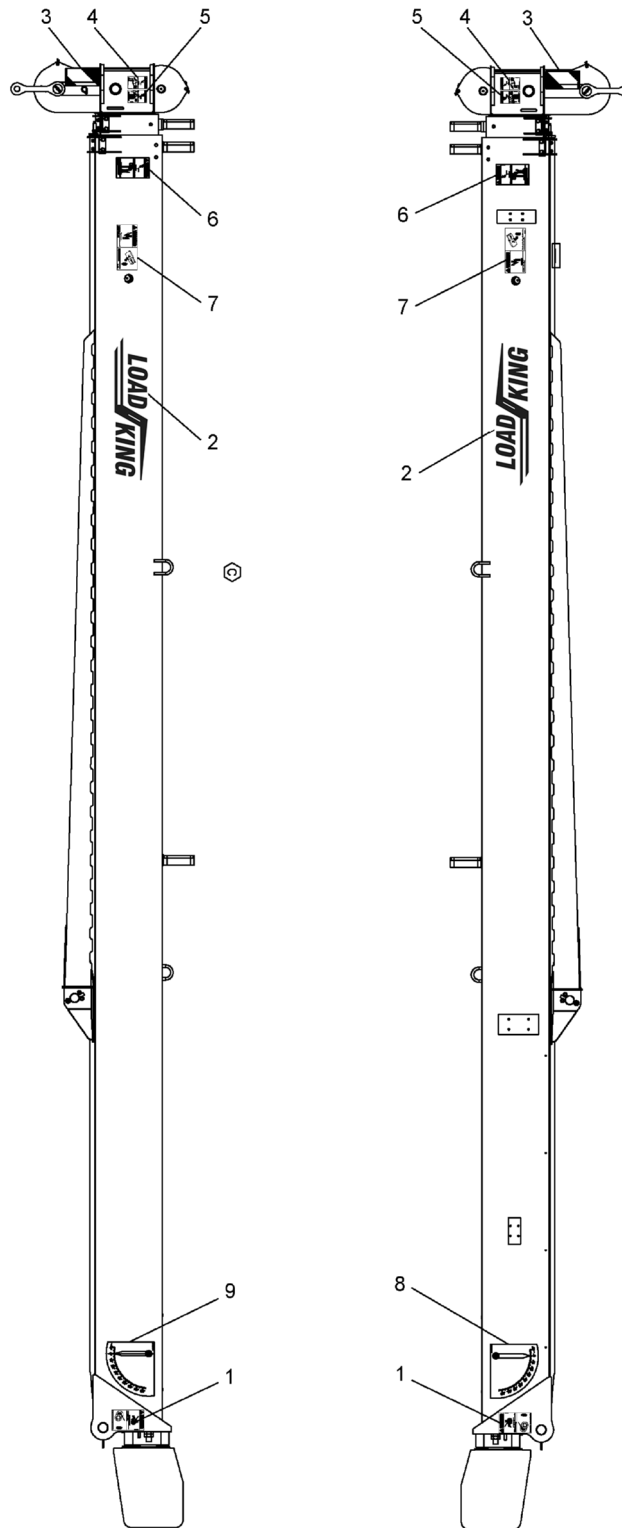
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00009-3 (Rev. E)	<i>19-70 Boom Decals Single Axle W/Logo White</i>	
1	651-00424	Decal - Loadline Crush Hazard	2
2	T105672	Decal - Boom Head Safety Stripe	2
3	1007066	Decal - LOAD KING Logo (White) 5.4" Crown	2
4	T121866	Decal - Jib Removal W/Lift	2
5	T121867	Decal - Lanyard Hook Location	2
6	651-00416	Decal - Safe Elevated Access	2
7	653-00411	Decal - Crush/Cut Hazard	2
8	1006872	Decal - Boom Angle Indicator - RH	1
9	1006873	Decal - Boom Angle Indicator - LH	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, BOOM

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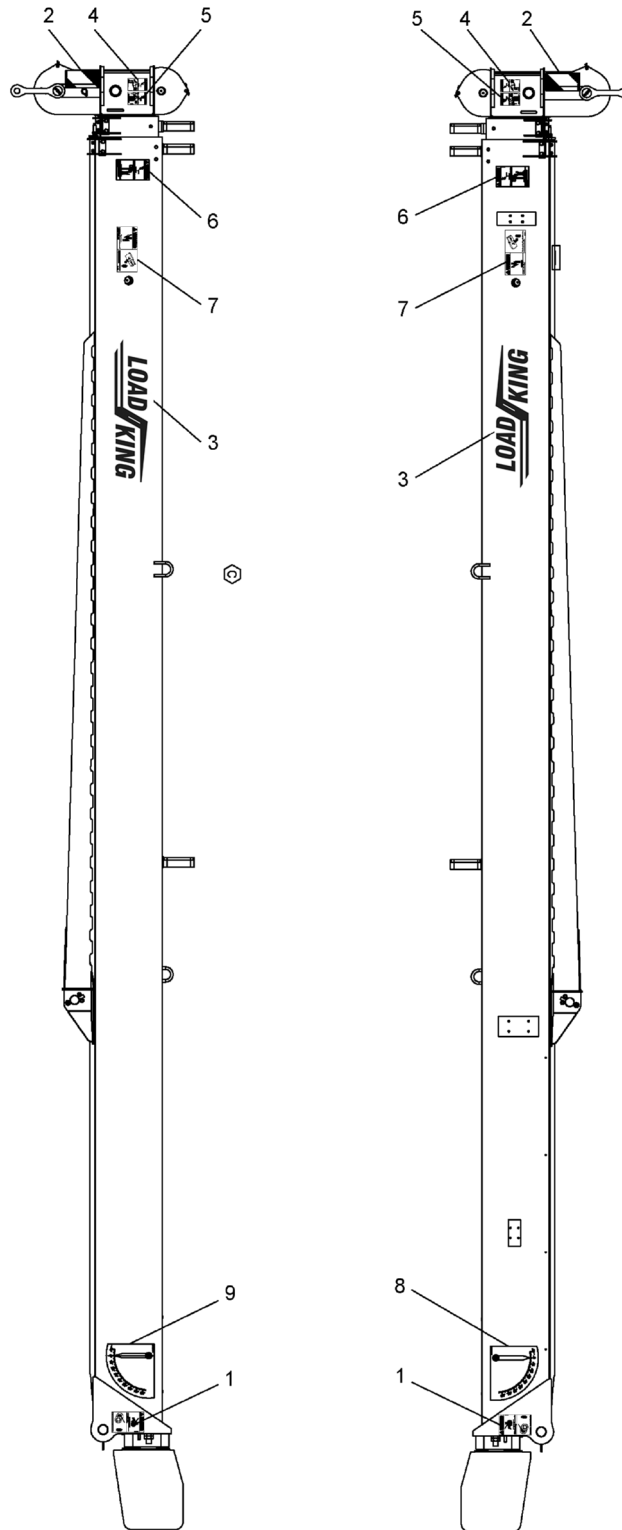
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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00009-4 (Rev. E)	<i>19-70 Boom Decals Tandem Axle W/Logo Black</i>	
1	651-00424	Decal - Loadline Crush Hazard	2
2	1007066	Decal - LOAD KING Logo (Black) 5.4" Crown	2
3	T105672	Decal - Boom Head Safety Stripe	2
4	T121866	Decal - Jib Removal W/Lift	2
5	T121867	Decal - Lanyard Hook Location	2
6	651-00416	Decal - Safe Elevated Access	2
7	653-00411	Decal - Crush/Cut Hazard	2
8	1006872	Decal - Boom Angle Indicator - RH	1
9	1006873	Decal - Boom Angle Indicator - LH	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	MARKING DECALS, BOOM	DATE: Revised 12-2013	CHAPTER 4
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, BOOM

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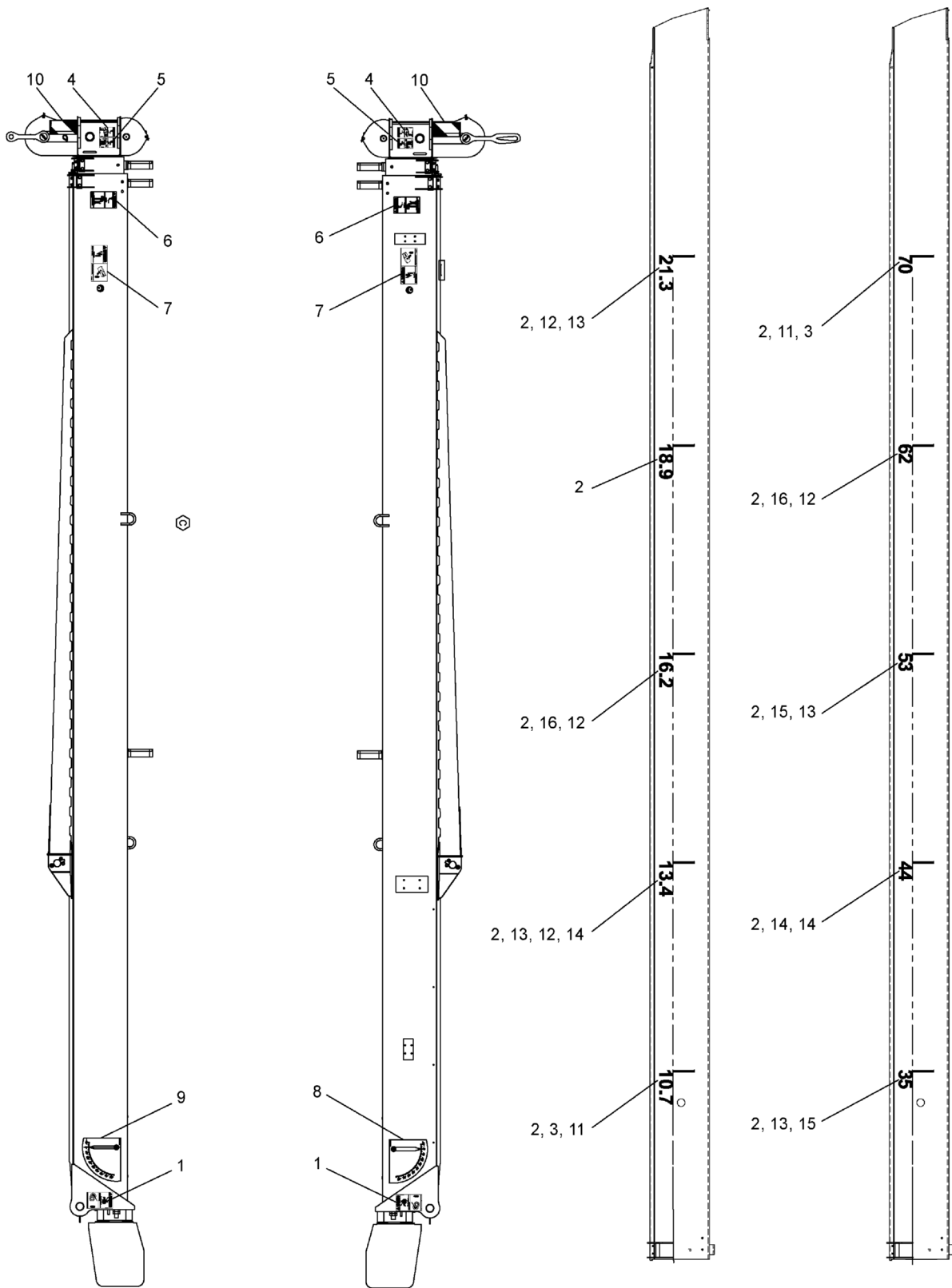
CHAPTER

4

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00009-5 (Rev. E)	<i>19-70 Boom Decals Tandem Axle W/Logo White</i>	
1	651-00424	Decal - Loadline Crush Hazard	2
2	T105672	Decal - Boom Head Safety Stripe	2
3	1007066	Decal - LOAD KING Logo (White) 5.4" Crown	2
4	T121866	Decal - Jib Removal W/Lift	2
5	T121867	Decal - Lanyard Hook Location	2
6	651-00416	Decal - Safe Elevated Access	2
7	653-00411	Decal - Crush/Cut Hazard	2
8	1006872	Decal - Boom Angle Indicator - RH	1
9	1006873	Decal - Boom Angle Indicator - LH	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	MARKING DECALS, BOOM	DATE: Revised 12-2013	CHAPTER 4
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WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00009-6 (Rev. E)	<i>Boom 2ND Stage English WHT</i>	
1	651-00424	Decal - Loadline Crush Hazard	2
2	1006839	Decal - Indicating Line (LOAD KING White)	10
3	1006839	Decal - Number 0 (LOAD KING White)	2
4	T121866	Decal - Jib Removal W/Lift	2
5	T121867	Decal - Lanyard Hook Location	2
6	651-00416	Decal - Safe Elevated Access	2
7	653-00411	Decal - Crush/Cut Hazard	2
8	1006872	Decal - Boom Angle Indicator - RH	1
9	1006873	Decal - Boom Angle Indicator - LH	1
10	T105672	Decal - Boom Head Safety Stripe	2
11	1006839	Decal - Number 7 (LOAD KING White)	2
12	1006839	Decal - Number 2 (LOAD KING White)	4
13	1006839	Decal - Number 3 (LOAD KING White)	4
14	1006839	Decal - Number 4 (LOAD KING White)	4
15	1006839	Decal - Number 5 (LOAD KING White)	4
16	1006839	Decal - Number 6 (LOAD KING White)	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS, BOOM

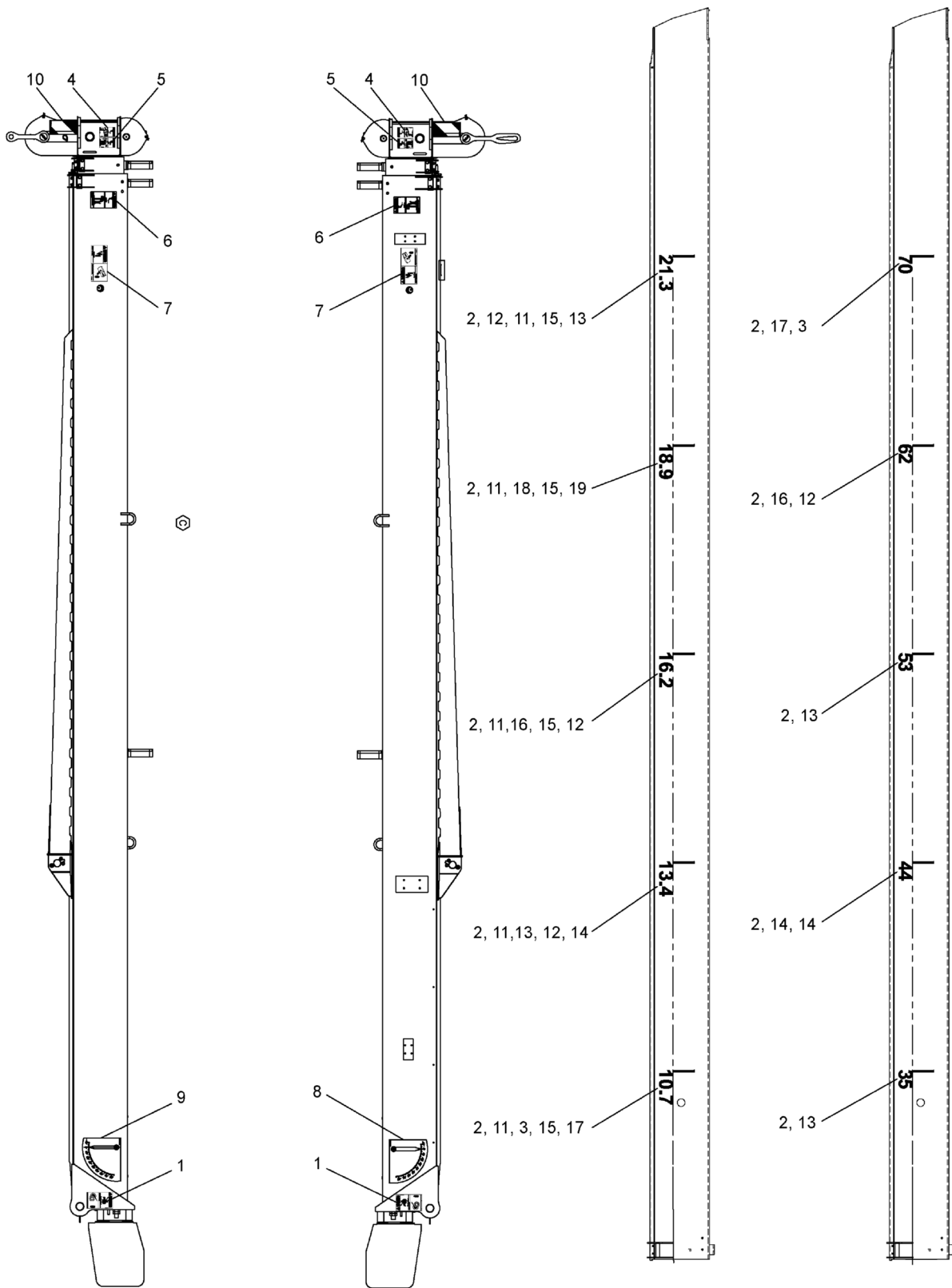
DATE: Revised 12-2013

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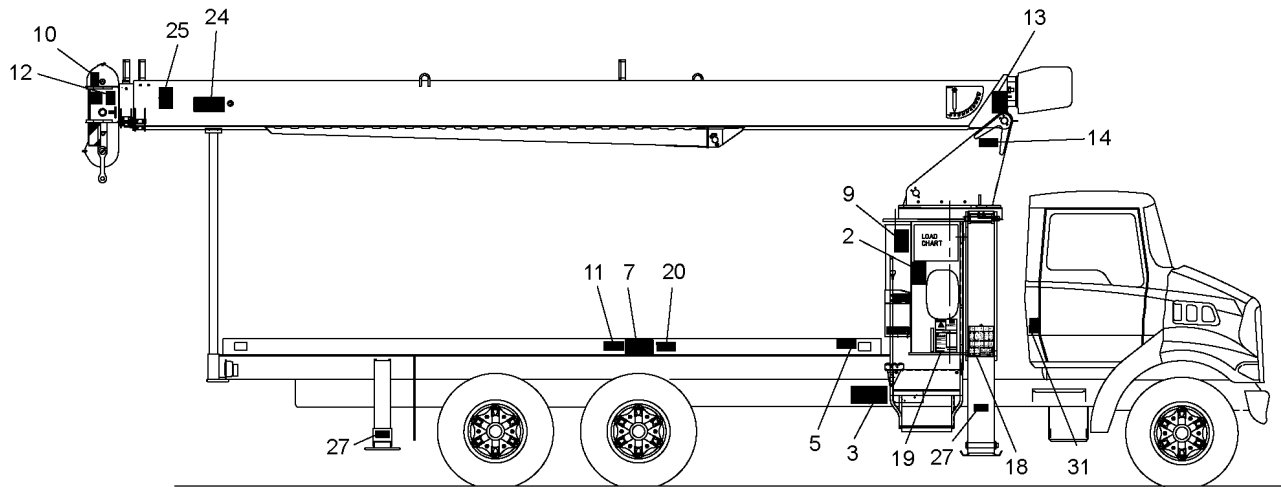


WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

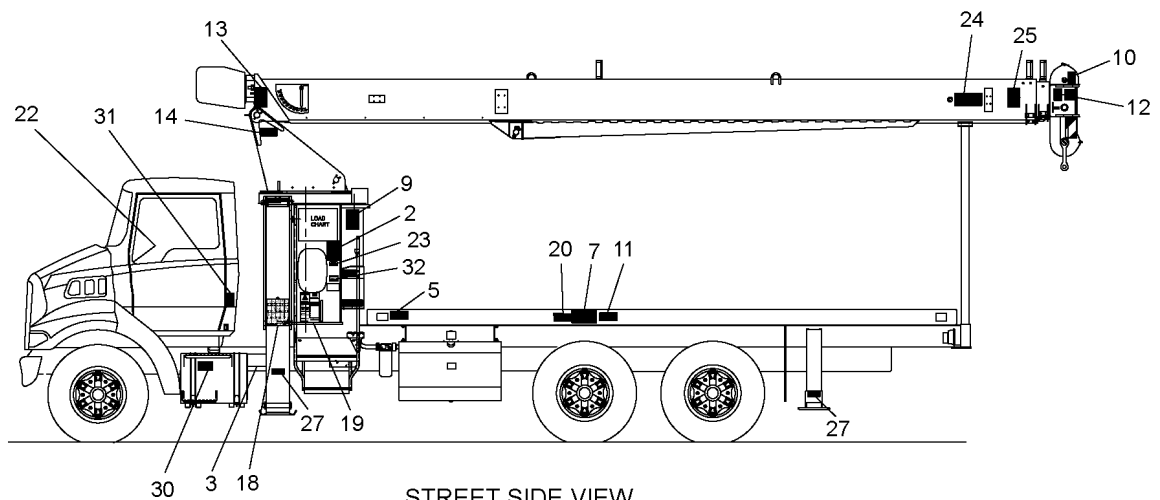
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00009-7 (Rev. E)	<i>Boom Decals Tandem Axle W/Logo White</i>	
1	651-00424	Decal - Loadline Crush Hazard	2
2	1006839	Decal - Indicating Line (White)	10
3	1006839	Decal - Number 0 (White)	2
4	T121866	Decal - Jib Removal W/Lift	2
5	T121867	Decal - Lanyard Hook Location	2
6	651-00416	Decal - Safe Elevated Access	2
7	653-00411	Decal - Crush/Cut Hazard	2
8	1006872	Decal - Boom Angle Indicator - RH	1
9	1006873	Decal - Boom Angle Indicator - LH	1
10	T105672	Decal - Boom Head Safety Stripe	2
11	1006839	Decal - Decimal Point (White)	10
12	1006839	Decal - Number 2 (White)	4
13	1006839	Decal - Number 3 (White)	4
14	1006839	Decal - Number 4 (White)	2
15	1006839	Decal - Number 5 (White)	4
16	1006839	Decal - Number 6 (White)	2
17	1006839	Decal - Number 7 (White)	2
18	1006839	Decal - Number 8 (White)	2
19	1006839	Decal - Number 9 (White)	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

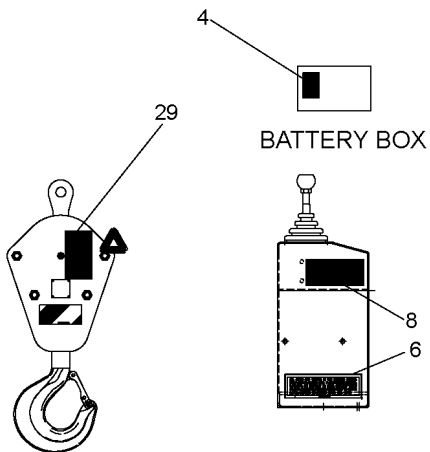
	MARKING DECALS, BOOM	DATE: Revised 12-2013	CHAPTER 4
		MODEL: 19-70	
		PAGE: 337	



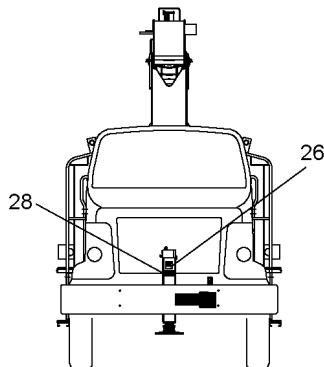
CURBSIDE VIEW



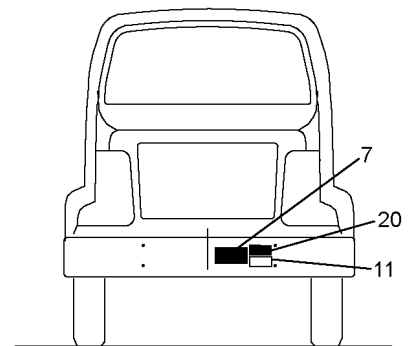
STREET SIDE VIEW



BATTERY BOX

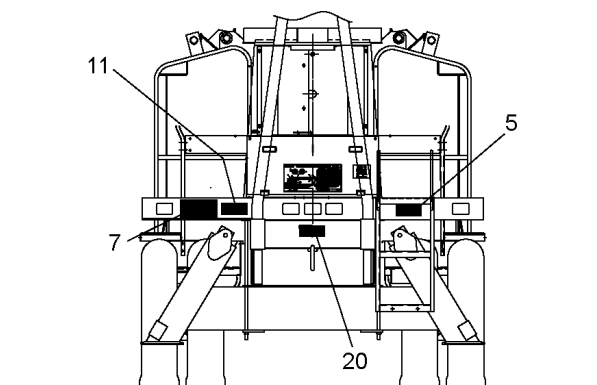


FIFTH OUTRIGGER DECAL LOCATIONS

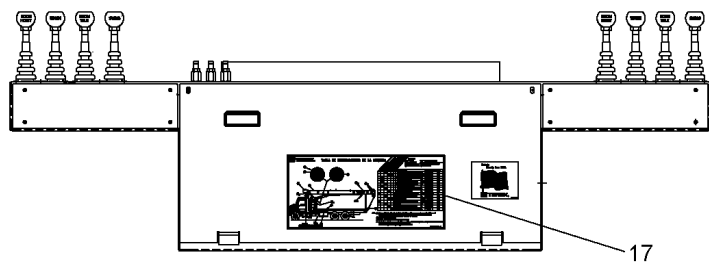
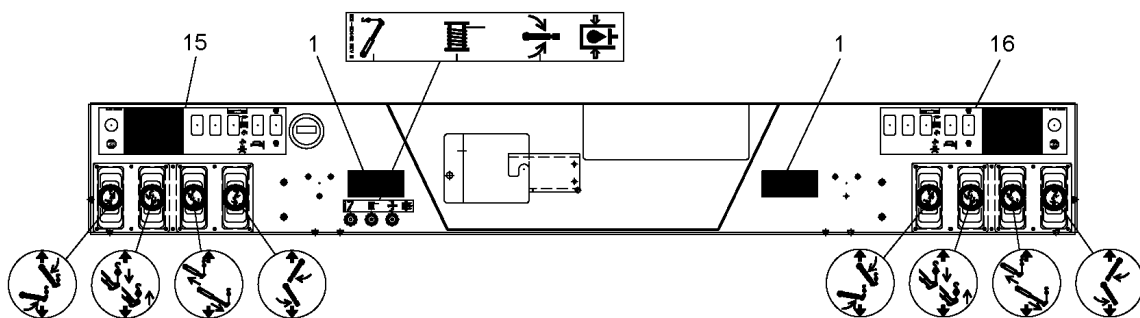


FRONT VIEW

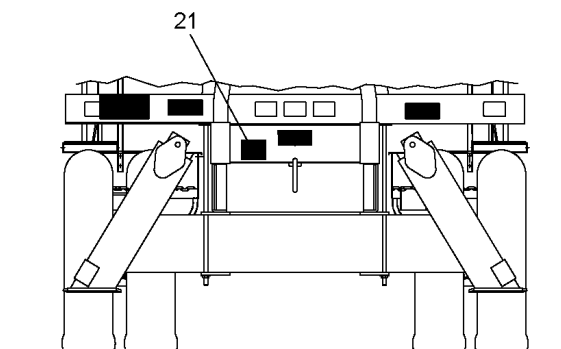
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



REAR VIEW



CONTROL CONSOLE



INCHING WINCH DECAL LOCATION

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T137480 (Rev. D)	<i>Spanish Decals</i>	
1	1007050	Decal - Personnel Lifting	2
2	1007048	Decal - Skin Injection	2
3	1007046	Decal - Entanglement	2
4	1007045	Decal - Battery Danger	1
5	1007047	Decal - Fall Hazard	3
6	T111460	Decal - Warning All-Spanish	2
7	1007052	Decal - Electrocution Hazard Person	4
8	1007049	Decal - No Ridestep/Platform	2
9	1006880	Decal - Electrocution Hazard	2
10	1006876	Decal - Jib Removal W/Lift	2
11	1007044	Decal - No Riding Boom/Jib/Load	4
12	1006878	Decal - Lanyard Hook Location	2
13	1006877	Decal - Load Line Crush Hazard	2
14	1007051	Decal - BM/Turret Crush Hazard	2
15	1007062	Decal - Console, C.S. - Spanish	1
16	1007061	Decal - Console, S.S. - Spanish	1
17	T137021	Decal - Machine Maintenance Chart	1
18	1007059	Decal - Crane Hand Signals	2
19	T118218	Decal - Operating Instructions-Spanish	2
20	T139674	Decal - Crush Hazard, Stay Clear of Load (HORZ)	4
21	1007063	Decal - Inching Winch Control	1
22	T108945	Placard -PTO Operating Instructions-Spanish	1
23	T109773	Decal - Stability Certification-Spanish	1
24	1006879	Decal - Crush Hazard	2
25	1006875	Decal - Safe Elevated Access	2
26	T108955	Decal - Fifth O/R Extend / Retract - Spanish	2
27	1007060	Decal - "A" Frame O/R Crushing	4
28	1007064	Decal - Fifth O/R Crushing	1
29	T140608	Decal, Crush Hazard, Stay Clear of Load (VERT)	2
30	T119179	Decal - Danger, Diesel Explosion/Burn	1
31	T141899	Decal, Fall Hazard	2
32	T152225	Product Registration Decal White Back - Spanish	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



SPANISH DECALS

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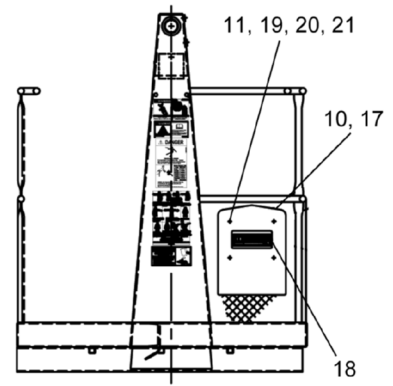
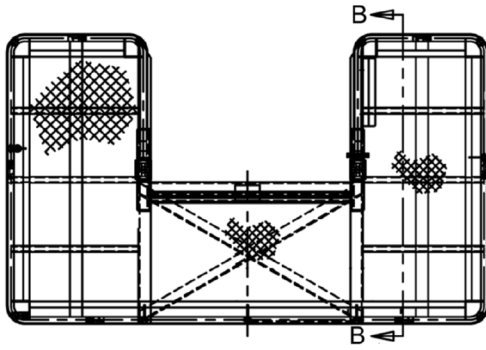
CHAPTER

4

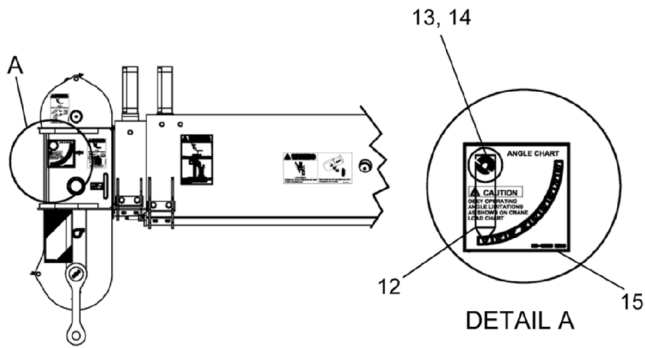
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T128460 (Rev. A)	<i>2-Man Steel Platform Manual, Decals- English</i>	
1	1006838	Decal, 19-70-S 2-Man Working Range Diagram	3
2	T128464	3RD Section Boom Decal Locations (see page 342)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

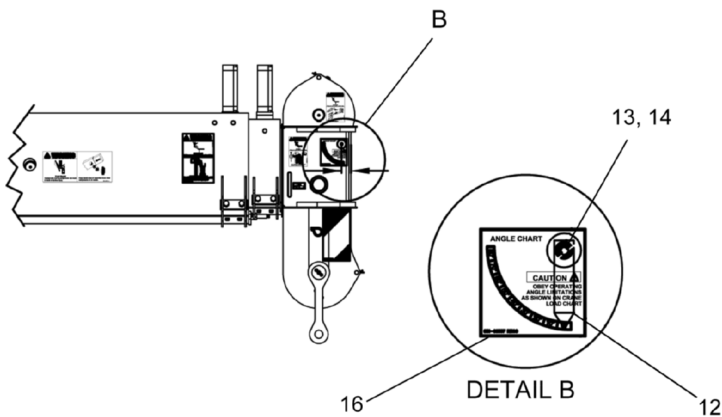
	2 - MAN STEEL PLATFORM MANUAL, DECALS (ENGLISH)	DATE: Released 02-2015	CHAPTER 4
		MODEL: 19-70	
		PAGE: 341	



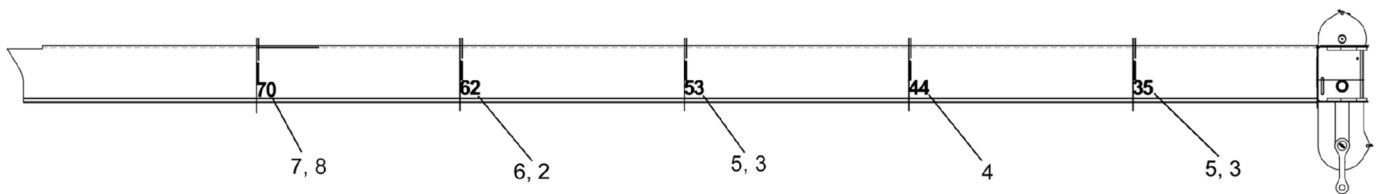
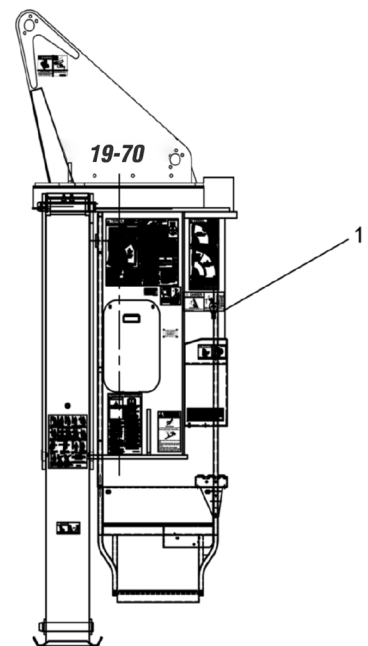
VIEW B-B



DETAIL A



DETAIL B



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PLATFORM & 3RD SECT. DECAL LOCATION - ENGLISH

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T128464 (Rev. A)	3RD Section Boom Decal Locations	
1	1007056	Decal Electrocutation Hazard (Horizontal)	2
2	1006839	Decal - Number 2 (White)	2
3	1006839	Decal - Number 3 (White)	2
4	1006839	Decal - Number 4 (White)	4
5	1006839	Decal - Number 5 (White)	4
6	1006839	Decal - Number 6 (White)	2
7	1006839	Decal - Number 7 (White)	2
8	1006839	Decal - Number 0 (White)	2
9*	1006839.	Decal - Indication Line 4.5" (White)	10
10	T128911	Steel Personell Platform Installation & Operation Manual	1
11	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	4
12	729-02579	Angle Pointer	2
13	WAR-375X000-22	WSH, FL, TYPA-REG 0.375, ST SQC G2	2
14	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2
15	651-00366	Decal Angle Chat L.H.	1
16	651-00367	Decal Angle Chat R.H.	1
17	T127361	Box, Manual Storage	1
18	1006833	Decal, All Sign & Charts	1
19	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	4
20	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	4
21	WFD-250XA50-20	WSH, FNDR 0.25 X 1.50, ST SQC	4

* ITEM NOT SHOWN IN ILLUSTRATION.

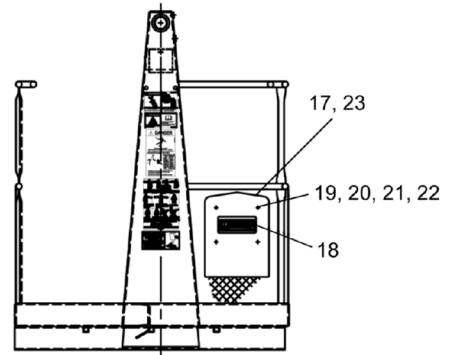
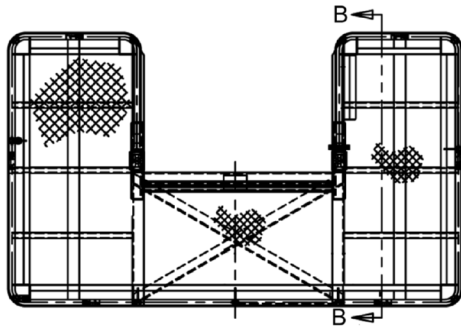
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	PLATFORM & 3RD SECT. DECAL LOCATION - ENGLISH	DATE: Released 01-2015	CHAPTER 4
		MODEL: 19-70	
		PAGE: 343	

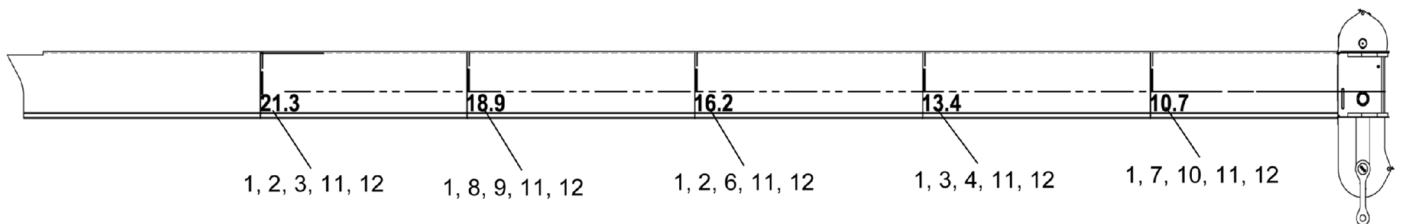
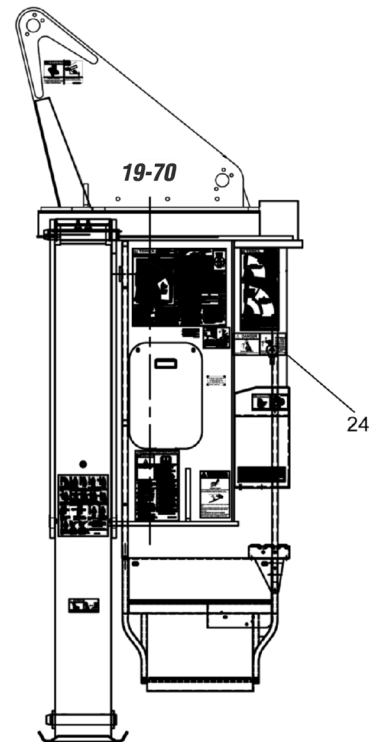
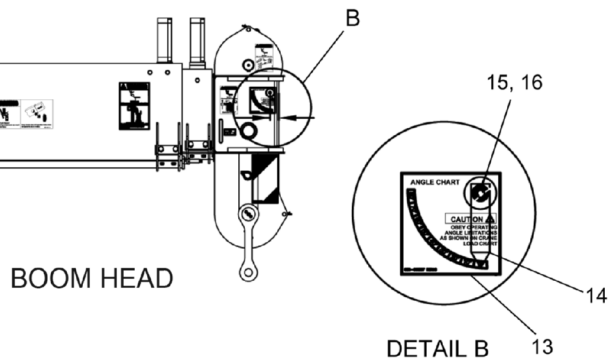
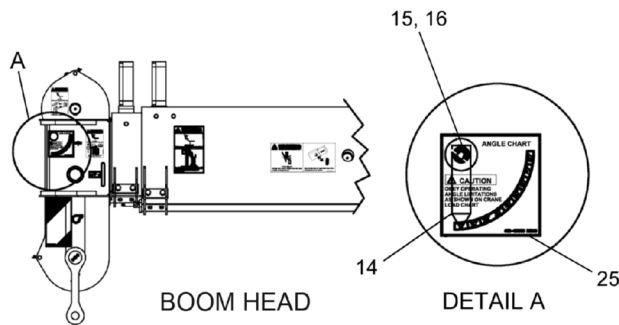
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T128461 (Rev. A)	2-Man Steel Platform Manual, Decals- Metric	
1	1007058	Decal, 19-70-S 2-Man Working Range Diagram	3
2	T128465	Platform & 3RD SECT. Decal Location - Metric (see page 345)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	2 - MAN STEEL PLATFORM MANUAL, DECALS (METRIC)	DATE: Released 02-2015	CHAPTER 4
		MODEL: 19-70	
		PAGE: 344	



VIEW B-B



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



PLATFORM & 3RD SECT. DECAL LOCATION - METRIC

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T128465 (Rev. B)	<i>Platform & 3RD SECT. Decal Location - Metric</i>	
1	1006839	Decal - Number 1 (LOAD KING White)	10
2	1006839	Decal - Number 2 (LOAD KING White)	2
3	1006839	Decal - Number 3 (LOAD KING White)	2
4	1006839	Decal - Number 4 (LOAD KING White)	4
5*	1006839	Decal - Number 5 (LOAD KING White)	2
6	1006839	Decal - Number 6 (LOAD KING White)	2
7	1006839	Decal - Number 7 (LOAD KING White)	2
8	1006839	Decal - Number 8 (LOAD KING White)	2
9	1006839	Decal - Number 9 (LOAD KING White)	2
10	1006839	Decal - Number 0 (LOAD KING White)	2
11	1006839	Decal - Indication Line 4.5" (LOAD KING White)	10
12	1006839	Decal - Decimal Point (LOAD KING White)	10
13	651-00367	Decal Angle Chat R.H.	1
14	729-02579	Angle Pointer	2
15	WAR-375X000-22	WSH, FL, TYPA-REG 0.375, ST SQC G2	2
16	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	2
17	T127361	Box, Manual Storage	1
18	1006833	Decal, All Sign & Charts	1
19	SHF-250C750-25	SCR, HHCS FT 0.25-20 X 0.75, ST SQC G5	4
20	WBR-25RX734-20	WSH, FL TYPB - REG 0.25, ST Z	4
21	WFD-250XA50-20	WSH, FNDR 0.25 X 1.50, ST SQC	4
22	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20, ST Z G5	4
23	T128911	Steel Personell Platform Installation & Operation Manual	1
24	1007056	Decal Electrocution Hazard (Horizontal)	2
25	651-00366	Decal Angle Chat L.H.	1

* ITEM NOT SHOWN IN ILLUSTRATION.

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	PLATFORM & 3RD SECT. DECAL LOCATION - METRIC	DATE: Revised 04-2018	CHAPTER 4
		MODEL: 19-70	
		PAGE: 346	

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T128462 (Rev. A)	2-Man Steel Platform Manual, Decals- English	
1	T128464	3RD Section Boom Decal Locations (see page 342)	1
2	1007055	Decal, 19-70-S 2-Man Working Range Diagram	3

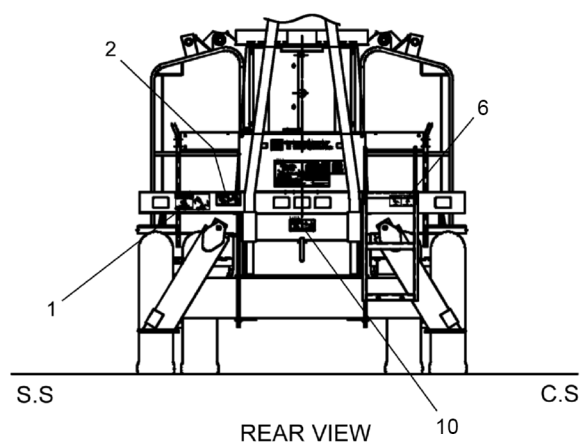
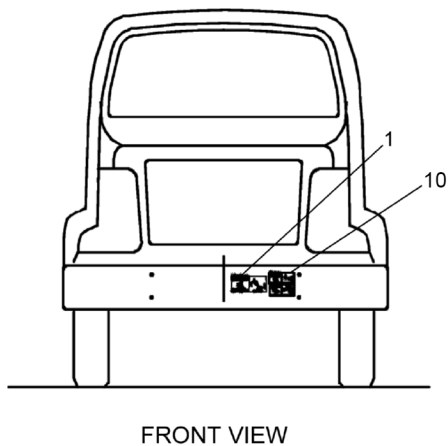
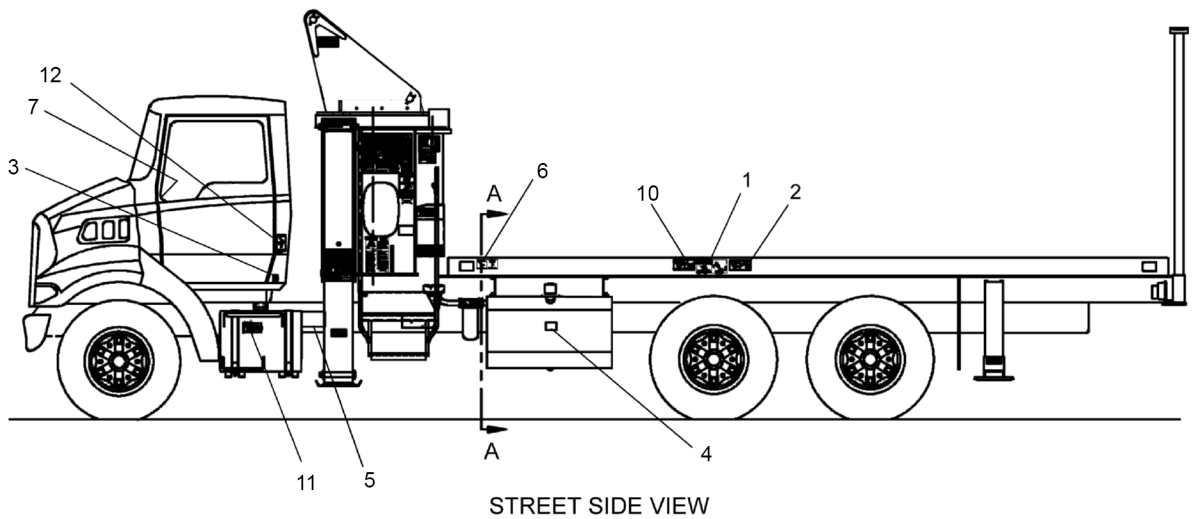
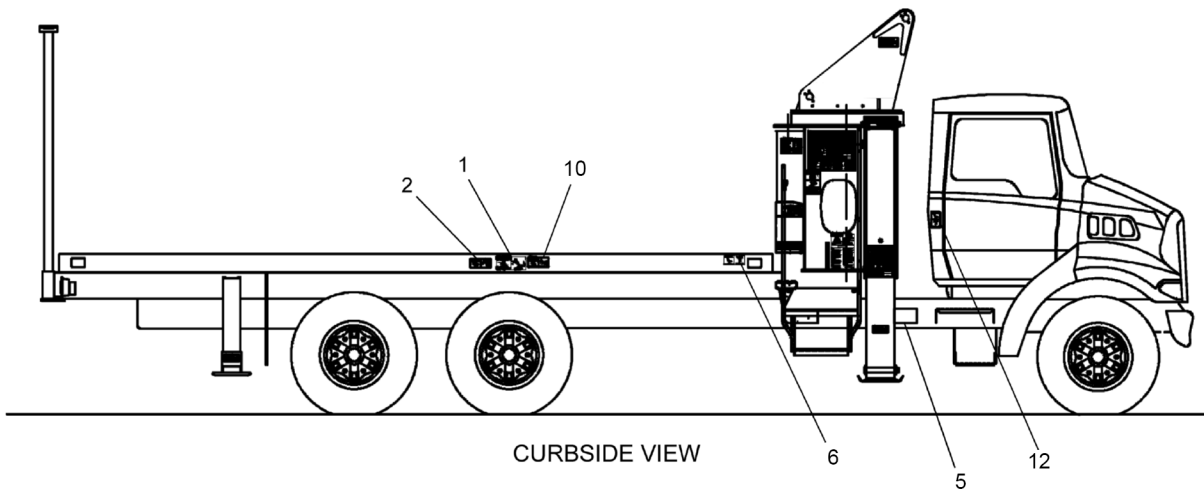
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	2 - MAN STEEL PLATFORM MANUAL, DECALS (ENGLISH)	DATE: Released 02-2015	CHAPTER 4
		MODEL: 19-70	
		PAGE: 347	

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	T128463 (Rev. A)	2-Man Steel Platform Manual, Decals- Metric	
1	1007057	Decal, 19-70-T 2-Man Working Range Diagram	3
2	T128465	Platform & 3RD SECT. Decal Location - Metric (see page 345)	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	2 - MAN STEEL PLATFORM MANUAL, DECALS (METRIC)	DATE: Released 02-2015	CHAPTER 4
		MODEL: 19-70	
		PAGE: 348	



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS - TRUCK, FLATBED & HYD TANK

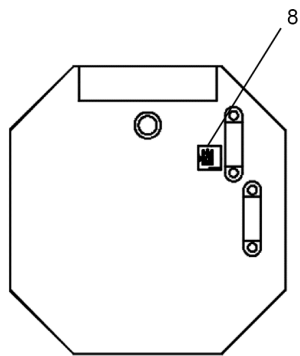
DATE: Revised 09-2017

MODEL: 19-70

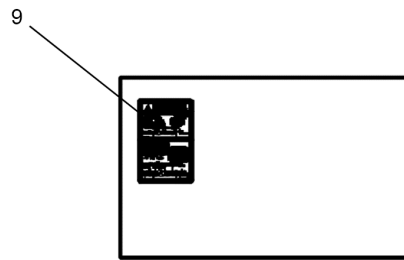
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CHAPTER

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SECTION A-A
HYD RESERVOIR



BATTERY BOX



WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00011 (Rev. F)	<i>Decal Location Truck, Flatbed, & HYD Tank</i>	
1	T106560	Decal - Electrocution Hazard Personnel	4
2	651-00415	Decal - No Riding Boom / Jib / Load	4
3	12400-1003	Decal - Fire Extinguisher	1
4	652-00073	Decal - Hydraulic Oil Only	1
5	1006841	Decal - Entanglement	2
6	12400-1516	Decal - Fall Hazard	3
7	652-00575	Decal - PTO	1
8	651-00418	Decal - Hydraulic Oil Level	1
9	651-00473	Decal - Battery Danger	1
10	T139673	Decal, Crush Hazard, Stay Clear Of Load (HORZ)	4
11	12400-1508	Decal - Danger, Diesel Explosion / Burn	1
12	T141898	Decal - Fall Hazard	2

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



MARKING DECALS - TRUCK, FLATBED & HYD TANK

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CHAPTER

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CHAPTER NO. 5

MANUALS



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
		19-70-MANUALS (Rev. 00) <i>MANUALS</i>	
1	1007456	STINGER 19-70 MANUAL PACK, ENGLISH	1
1A	1007457	STINGER 19-70 MANUAL PACK, SPANISH	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	MANUALS	DATE: Released 09-2017	CHAPTER 5
		MODEL: 19-70	
		PAGE: 355	

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	1007456	<i>Manual Pack, English</i>	
1	1007460	CD-Operator's, Parts, Shop & Schematics	1
2	1007458	STINGER 19-70 Parts Manual	1
3	1007459	STINGER 19-70 Operator's Manual	1
4	MC-1407	AEM Safety Manual	1
5	DVD-CR	AEM Safety Video (Copyright 2014)	1
6	12261-644	Greer Insight Operation's Video – DVD	1
7	1007467	LOAD KING Product Warranty Certificate	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	1007457	<i>Manual Pack, Spanish</i>	
1	1007462	CD-Operator's, Parts, Shop & Schematics	1
2	1007458	STINGER 19-70 Parts Manual	1
3	1007464	STINGER 19-70 Operator's Manual, SPANISH	1
4	MC-1407	AEM Safety Manual	1
5	DVD-CR	AEM Safety Video (Copyright 2014)	1
6	12261-644	Greer Insight Operation's Video – DVD	1
7	1007468	LOAD KING Product Warranty Certificate, SPANISH	1

WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

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Part no.	Description	Qty	Page
268-90179	Seal Kit (Items 1 thru 9)	1	108
268-90196	Seal Kit (Items 1 thru 9)	2	79
400-04122	AUX O/R Switch	1	265, 270
400-04411	Switch, Temperature 210F Raising	1	165
400-05509	Bussmann Fuse Box	1	260
402-00049	Toggle Switch Enclosure	1	265, 270
442-2201	Switch	1	243
501-02018	Filter Element	1	165
540-50046	CYL, Outrigger Leg, Main	2	106
540-50049	Cylinder, HYD, AUX Outrigger	1	77
540-80096.2	Cylinder, HYD, Boom Hoist	1	63
550-00423	Valve, Main Boom (HUSCO)	1	135
559-00262	Valve, Relief	1	133, 193
559-00263	Valve, Outrigger	1	265, 270
560-00072	Swivel, 11 Circuit	1	220, 238
651-00253	Decal-Warning All	1	314, 317, 319, 321, 323
651-00371	Decal - Crush Hazard Jib	1	23, 30
1006868	Decal-Electrocution Hazard	1	314, 317, 319, 321, 323
651-00415	Decal - No Riding Boom / Jib / Load	1	351
651-00416	Decal - Safe Elevated Access	1	23, 30, 325, 327, 329, 331...
651-00418	Decal - Hydraulic Oil Level	1	351
651-00425	Decal-Boom/Turret Crush Hazard	1	314, 317, 319, 321, 323
1006869	Decal-Hands Off Rail	1	281
651-00470	Decal-Personnel Lifting	1	314, 317, 319, 321, 323
651-00473	Decal - Battery Danger	1	351
652-00073	Decal - Hydraulic Oil Only	1	351
652-00496	Decal, Crane Hand Signals	1	281
652-00575	Decal - PTO	1	351
653-00411	Decal - Crush/Cut Hazard	1	23, 30, 325, 327, 329, 331...
695-10021	Switch Box ASSY, Outriggers	1, REF	81, 145
729-02819	Wear Pad, 8.2 5 X 2.50 x 0. 50	2	106
729-02820	Wear Pad, AUX Outrigger	1	77
729-02836	Wear Pad 7.00 X 1.75 X 0.75	REF	113
729-02838	Wear Pad 7.00 X 1.75 X 0.62	REF	113
729-02856	Wear Pad 3.00 X 3.00 X 1.125	REF	113
729-02857	Wear Pad 4.00 X 1.125 X 0.50	REF	113
729-02860	Wear Pad, Cast Iron	REF	113
729-02862	Wear Pad 6.00 X 1.25 X 0.50	1, REF	34, 37, 113
729-02872	Wear Pad 6.00 X 1.25 X 0.50	1, REF	34, 37, 113
729-02890	Wear Pad 3.50X1.75X0.50	1	116

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<u>Part no.</u>	<u>Description</u>	<u>Qty</u>	<u>Page</u>
729-02908	Wear Pad, 8.25 X 2.50 x 0.375	2	106
787-00329	Shim 6.00 X 1.25 X 0.048	1, REF	34, 37, 113
860-10009	Sheave Assembly, Boom Retract	REF	113
860-40050	Sheave Assembly	1, REF	26, 34, 113
861 -90434	ATB Switch, HVY Duty	REF	113
861-90434	ATB Switch, HVY Duty	1	34
875-90362	Breather Cap, 1/2 NPT	1	165, 167
1223-379	Air Switch	1	262
1223-547	Air Switch, PTO	1	262
1223-981	Switch, Push-Pull	1	260
1223-1006	Hole Plug SW	1	86, 260
1223-1021	Lamp 12 V	1	86, 193
1223-1036	Throttle Switch	1	242
1223-1051	SW Rocker DPDT	1	86, 193, 260
1223-1081	SW Rocker MOM ON-OFF	1	260
12400-1003	Decal - Fire Extinguisher	1	351
12400-1503	Decal-Skin Injection	1	314, 317, 319, 321, 323
1006841	Decal - Entanglement	1	351
12400-1516	Decal - Fall Hazard	1	351
215418	Brake Cylinder	1	181
231061	Service Seal Kit	1	267
419264A	Platform Danger Decal (LOAD KING TEL)	1	281
T127259	Decal-Remote Warning	1	281, 285
1007054	Decal, Personnel Platform Electrocution	1	281

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