

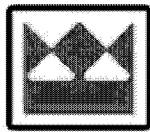


**TEREX®**

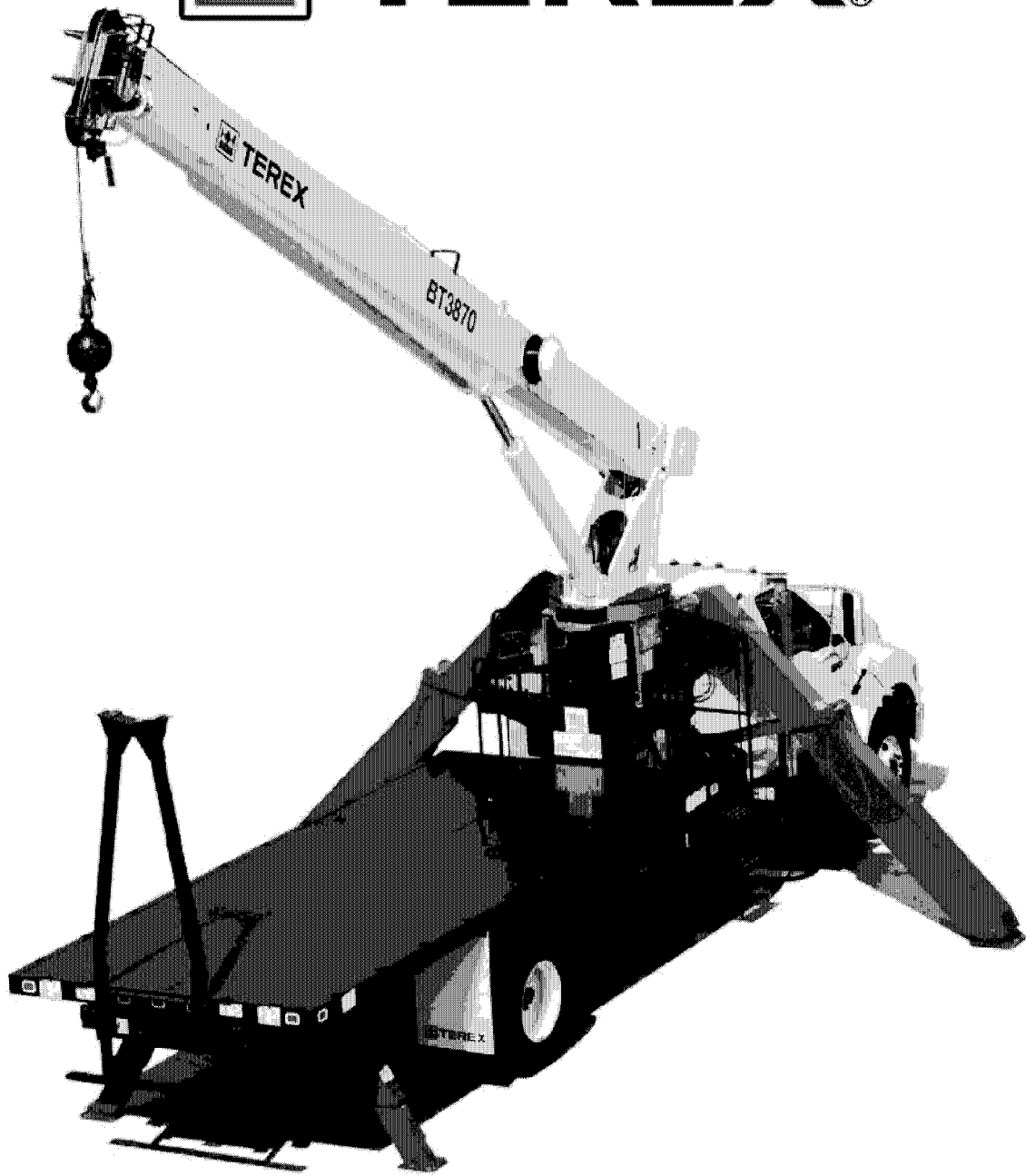


**PARTS MANUAL**

**BT3870**



**TEREX®**



**PARTS MANUAL**

**BT3870**

Released: AUGUST 2009

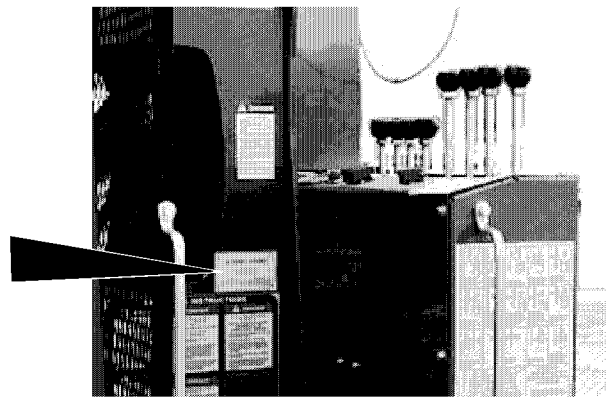
12261-340

# INSTRUCTIONS FOR ORDERING PARTS

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

## MACHINE IDENTIFICATION:

State the model and serial number, located on a plate affixed to the Turret behind the Operator's Seat.



## 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	QTY.
1	656-00008	Boom Decal Kit.....	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:  
Mid State Equipment  
Milwaukee, WI

SHIP TO:  
Ace Construction Co.  
Madison, WI

# 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 GROUP INDEX** shows the functional arrangement of associated parts for the machine. A group number identifies the same group of parts regardless of model (Group 25 is always the hydraulic system). The groups which apply to the machine are listed in numerical order. A letter suffix to a group number, 25A, is used for variable parts groups.

**PAGE NUMBERS** are in numerical sequence within each parts group. The first number is the group number and the second number is the numerical sequence number. Letter suffixes are used to maintain continuity to the manual as revisions are incorporated (1.1, 1.2, 1.2A, 1.2B, 1.3, etc.).

**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 GROUP INDEX and find the general area of the part in question. (Example: Seat would be found in "Operator's Cab & Machinery Housing" Group 27).
2. Refer to the partsgroup and check to see if a subsequent letter-designated group is used. Check the title block on the pages to determine the application of the group to your particular machine.

<b>BOOM ASSEMBLY 100'</b>	<b>39</b>
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<b>JIB ASSEMBLY</b>	<b>39A</b>
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3. Major assemblies are shown at the beginning of each group with page references to component parts breakdowns on the pages which follow. Briefly skim through the group 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.



**BT3870**

# PARTS GROUPS

## LOWER

- 2 CARRIER FRAME**
  - 2.1 TRUCK CHASSIS
  - 2.2 SUBFRAME ASSEMBLY
  - 2.5 SUBFRAME INSTALLATION
  - 2.7 MIDMOUNT TIEDOWN ASSEMBLY
  - 2.8 FLATBED OPTIONS
  - 2.9 FLATBED INSTALLATION MUDFLAP
  - 2.10 BOOM REST ASSEMBLY
  - 2.11 MAINFRAME INSTALLATION
  - 2.12 OPERATOR PLATFORM INSTALLATION
  - 2.13 OPERATOR PLATFORM ASSEMBLY
  - 2.14 PLATFORM US STREET SIDE
  - 2.16 PLATFORM US CURB SIDE
- 3 OUTRIGGERS**
  - 3.1 OUTRIGGERS
  - 3.2 MAIN OUTRIGGER ASSEMBLY
  - 3.3 MAIN OUTRIGGER ASSEMBLY
  - 3.4 MAIN OUTRIGGER CYLINDER
  - 3.5 AUXILIARY OUTRIGGER ASSEMBLY
  - 3.6 AUXILIARY OUTRIGGER CYLINDER
  - 3.7 SWITCH BOX ASSEMBLY - OUTRIGGERS

## UPPER

- 12 SUPERSTRUCTURE**
  - 12.1 TURRET INSTALLATION NON-CONTINUOUS ROTATION
  - 12.3 SWING STOP INSTALLATION NON-CONTINUOUS COMBINED FLOW
  - 12.5 SWING STOP INSTALLATION MOTOR SHIFT
  - 12.7 SWING STOP INSTALLATION FLAG WELD

## HYDRAULICS

- 22 SWING SYSTEM**
  - 22.1 ROTATION GEARBOX ASSEMBLY
- 24 PUMP DRIVE CASE**
  - 24.1 HYDRAULIC PUMP INSTALLATION
  - 24.2 TRIPLE VANE HYDRAULIC PUMP ASSEMBLY



## BT3870

# PARTS GROUPS

### 25 HYDRAULIC SYSTEM

- 25.1 HYDRAULIC RESERVOIR  
INSTALLATION
- 25.3 HYDRAULIC RESERVOIR  
FILTER INSTALLATION
- 25.4 HYDRAULIC RESERVOIR  
PIPING
- 25.5 MAIN VALVE ASSEMBLY  
STANDARD WINCH
- 25.6 MAIN VALVE PIPING  
NON-CONTINUOUS  
ROTATION
- 25.7 HYDRAULIC PIPING  
NON-CONTINUOUS  
ROTATION
- 25.8 HYDRAULIC PIPING - SWING
- 25.9 UNLOADER VALVE ASSEMBLY
- 25.10 WINCH VALVE ASSEMBLY
- 25.11 HYDRAULIC INSTALLATION  
SUBFRAME & MAINFRAME
- 25.15 HYDRAULIC INSTALLATION  
SUBFRAME & MAINFRAME
- 25.19 HYDRAULIC INSTALLATION  
SUBFRAME & MAINFRAME
- 25.23 HYDRAULIC INSTALLATION  
SUBFRAME & MAINFRAME
- 25.27 HYDRAULIC SCHEMATIC
- 25.30 HYDRAULIC INSTALLATION -  
MAINFRAME CONSOLE
- 25.34 HYDRAULIC INSTALLATION -  
MAINFRAME CONSOLE
- 25.38 HYDRAULIC INSTALLATION -  
MAINFRAME CONSOLE
- 25.44 HYDRAULIC INSTALLATION -  
MAINFRAME CONSOLE
- 25.50 CENTER POST INSTALLATION -  
CONTINUOUS ROTATION

### 28 OPERATOR CONTROLS

- 28.1 CONTROL CONSOLE  
ASSEMBLY  
CONTINUOUS ROTATION AND  
NON CONTINUOUS  
COMBINED FLOW
- 28.4 CONTROL CONSOLE  
ASSEMBLY  
CONTINUOUS ROTATION AND  
NON CONTINUOUS  
MOTOR SHIFT
- 28.7 THROTTLE ASSEMBLY
- 28.8 THROTTLE INSTALLATION

### MISCELLANEOUS

### 29 TOOLS, PAINT, LUBRICANTS

- 29.1 TOOLS / PAINTS

### 30 DECALS & PLACARDS

- 30.1 MARKING DECAL PLACEMENT
- 30.4 MARKING DECAL PLACEMENT
- 30.7 MARKING DECAL PLACEMENT
- 30.9 MARKING DECAL PLACEMENT
- 30.11 MARKING DECAL PLACEMENT
- 30.13 MARKING DECAL PLACEMENT -  
OPTIONAL



# PARTS GROUPS

## BT3870

### ELECTRICAL

#### 33 ELECTRICAL SYSTEM

- 33.1 ELECTRICAL SYSTEM  
HARNESSES
- 33.2 ELECTRICAL SYSTEM  
CONSOLE CONTROLS
- 33.3 ELECTRICAL ASSEMBLY -  
MAIN FRAME
- 33.4 ELECTRICAL OUTRIGGER CTL.
- 33.5 ELECTRICAL ASSEMBLY -  
SUBFRAME

### WINCH, BOOM, & ATTACHMENTS

#### 39 HYDRAULIC TELESCOPING BOOMS

- 39.1 BOOM ASSEMBLY - 70'
- 39.2 BOOM ASSEMBLY - 70' BASE
- 39.4 BOOM ASSEMBLY - 70'  
2ND STAGE
- 39.6 BOOM ASSEMBLY - 70'  
3RD STAGE
- 39.8 EXTENSION CYLINDER  
ASSEMBLY - 70' BOOM
- 39.10 CABLE GUIDE INSTALLATION  
70' BOOM
- 39.12 BOOM AND TOPPING  
CYLINDER INSTALLATION
- 39.14 TOPPING CYLINDER

#### 39A JIB

- 39A.1 JIB ASSEMBLY - SINGLE  
STAGE
- 39A.3 JIB ASSEMBLY - SINGLE  
STAGE
- 39A.4 JIB ASSEMBLY - TWO STAGE
- 39A.6 JIB ASSEMBLY - TWO STAGE
- 39A.9 JIB ASSEMBLY - TWO STAGE
- 39A.10 JIB ASSEMBLY - TWO STAGE
- 39A.11 JIB STOWAGE

#### 40 HYDRAULIC WINCH

- 40.1 HYDRAULIC WINCH  
NON-CONTINUOUS  
COMBINED FLOW 1 SPEED
- 40.10 HYDRAULIC WINCH  
NON-CONTINUOUS  
MOTOR SHIFT 2 SPEED
- 40.19 WINCH MOTOR  
CONTINUOUS ROTATION  
COMBINED FLOW 1 SPEED
- 40.28 WINCH MOTOR  
CONTINUOUS ROTATION  
MOTOR SHIFT 2 SPEED
- 40.37 WINCH ASSEMBLY
- 40.39 WINCH ASSEMBLY
- 40.41 WINCH BRAKE VALVE

#### 44 HOOK BLOCKS, BALLS

- 44.1 HOOK BLOCK - 1 SHEAVE /  
15 TON
- 44.2 HOOK BLOCK - 2 SHEAVE /  
25 TON
- 44.3 HOOK BALL - 6 1/4 TON
- 44.4 HOOK BALL - 7 TON SWIVEL
- 44.5 HOOK BALL - 7 TON NON -  
SWIVEL





## BT3870

# PARTS GROUPS

### 45 WIRE ROPE AND REEVING

- 45.1 WIRE ROPE AND REEVING

### ACCESSORIES

### 51 OPTIONAL EQUIPMENT

- 51.1 TOOL BOX - INSTALLATION
- 51.3 OIL COOLER INSTALLATION
- 51.5 FRONT BUMPER OUTRIGGER -  
INSTALLATION (34" FRAME)
- 51.8 FRONT BUMPER OUTRIGGER -  
INSTALLATION (46" FRAME)
- 51.11 FRONT BUMPER OUTRIGGER  
VALVE
- 51.12 HYDRAULIC INSTALL NON  
CONTINUOUS ROTATION -  
COMBINED FLOW
- 51.21 HYDRAULIC INSTALL NON  
CONTINUOUS ROTATION -  
MOTOR SHIFT
- 51.30 HYDRAULIC INSTALL  
CONTINUOUS ROTATION -  
COMBINED FLOW
- 51.39 HYDRAULIC INSTALL  
CONTINUOUS ROTATION -  
MOTOR SHIFT
- 51.48 1 PERSON STEEL PLATFORM -  
ASSEMBLY
- 51.50 1 PERSON STEEL PLATFORM  
INSTALLATION
- 51.52 2 PERSON STEEL PLATFORM  
INSTALLATION
- 51.53 2 PERSON STEEL PLATFORM -  
ASSEMBLY

- 51.57 RADIO REMOTE CONTROL
- 51.59 RADIO REMOTE CONTROL  
ACTUATOR VALVE ASSEMBLY
- 51.60 RADIO REMOTE CONTROL -  
WIRING DIAGRAM
- 51.61 INCHING WINCH

### 52 RATED CAPACITY INDICATOR

- 52.1 GREER RCI510 ASSEMBLY
- 52.3 GREER UG500R COMPUTER
- 52.4 GREER REEL
- 52.6 SWITCH BOX  
ASSEMBLY - GREER DISPLAY



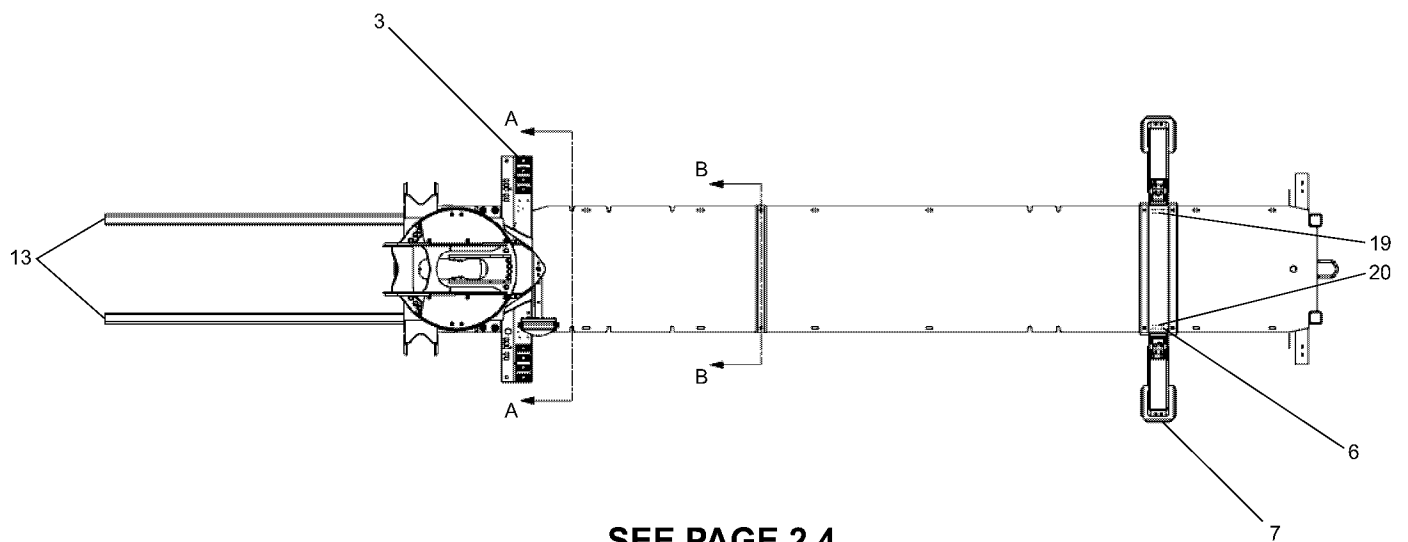
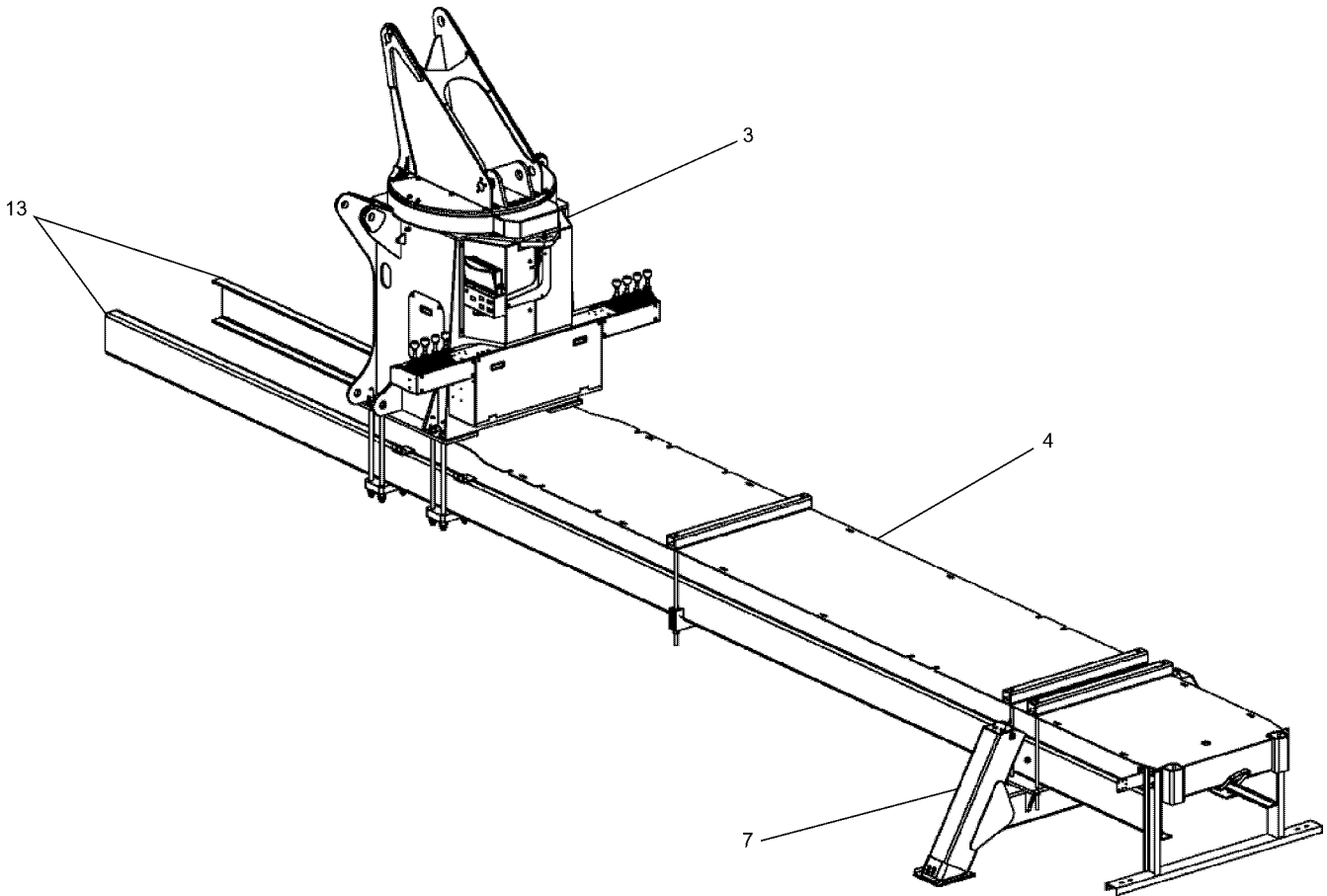
Refer to Truck Chassis manufacturer (Ford, Freightliner, Sterling, etc.) for truck repair/replacement parts.

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

	<b>TRUCK CHASSIS</b>	DATE: Revised 07-2009	<b>GROUP 2</b>
		MODEL: BT3870	
		PAGE 2.1	



**SEE PAGE 2.4**

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



**SUBFRAME ASSEMBLY**

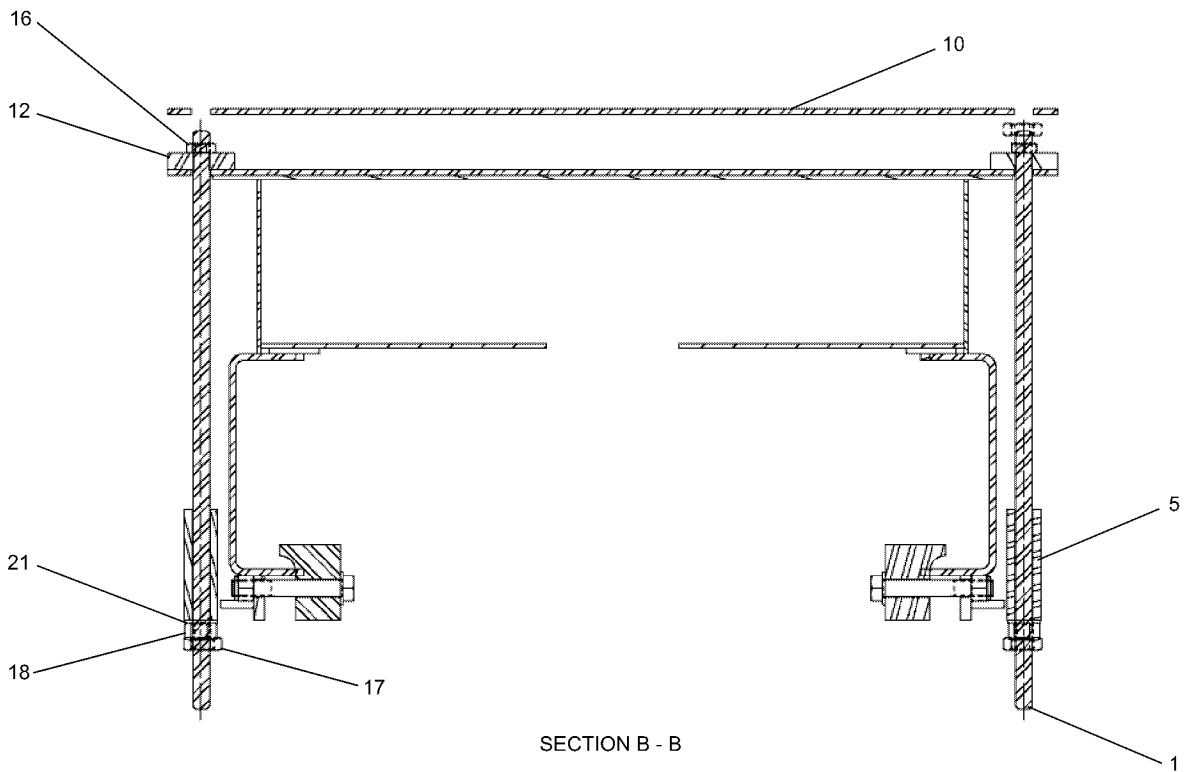
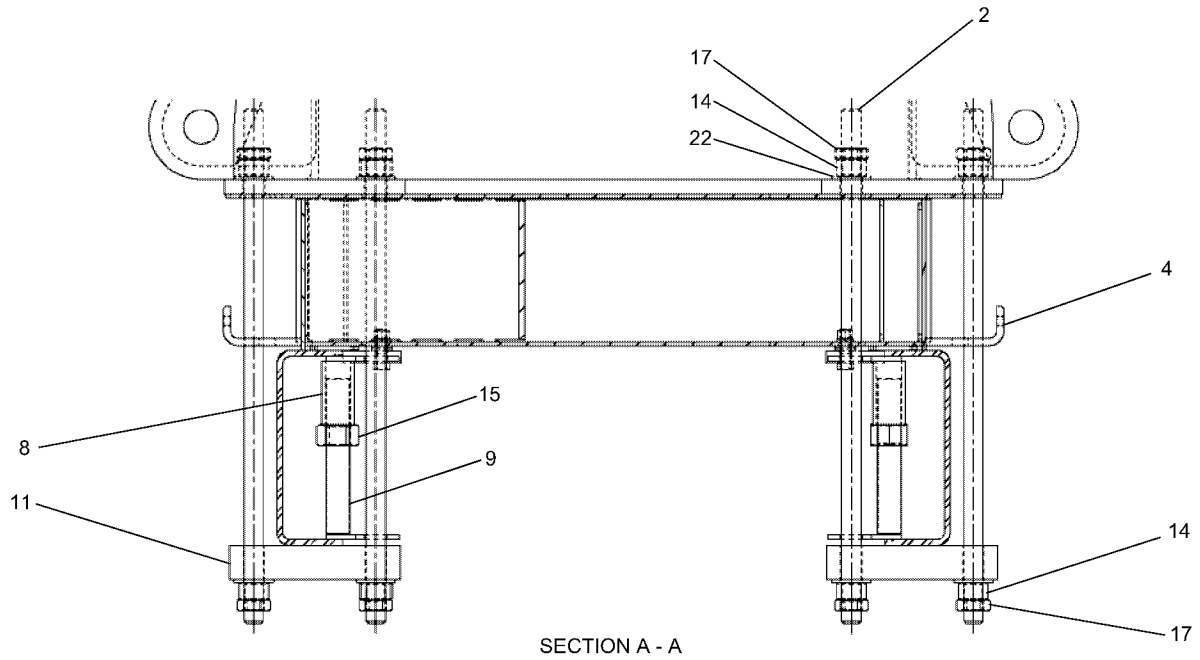
DATE: Revised 07-2009

MODEL: BT3870

PAGE 2.2

**GROUP**

**2**



**SEE PAGE 2.4**

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



**SUBFRAME ASSEMBLY**

DATE: Revised 07-2009

MODEL: BT3870

PAGE 2.3

GROUP

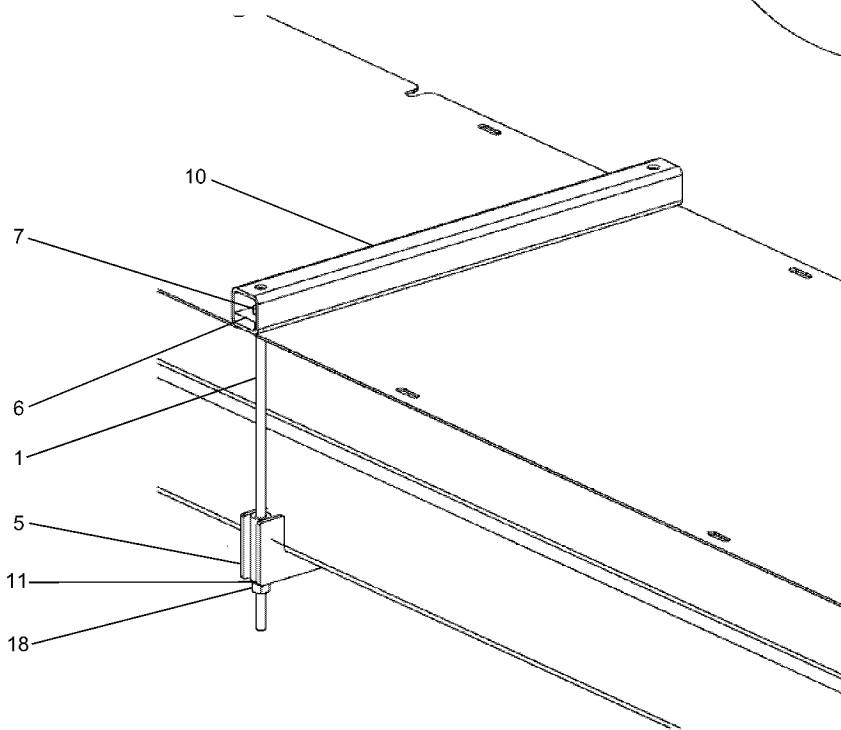
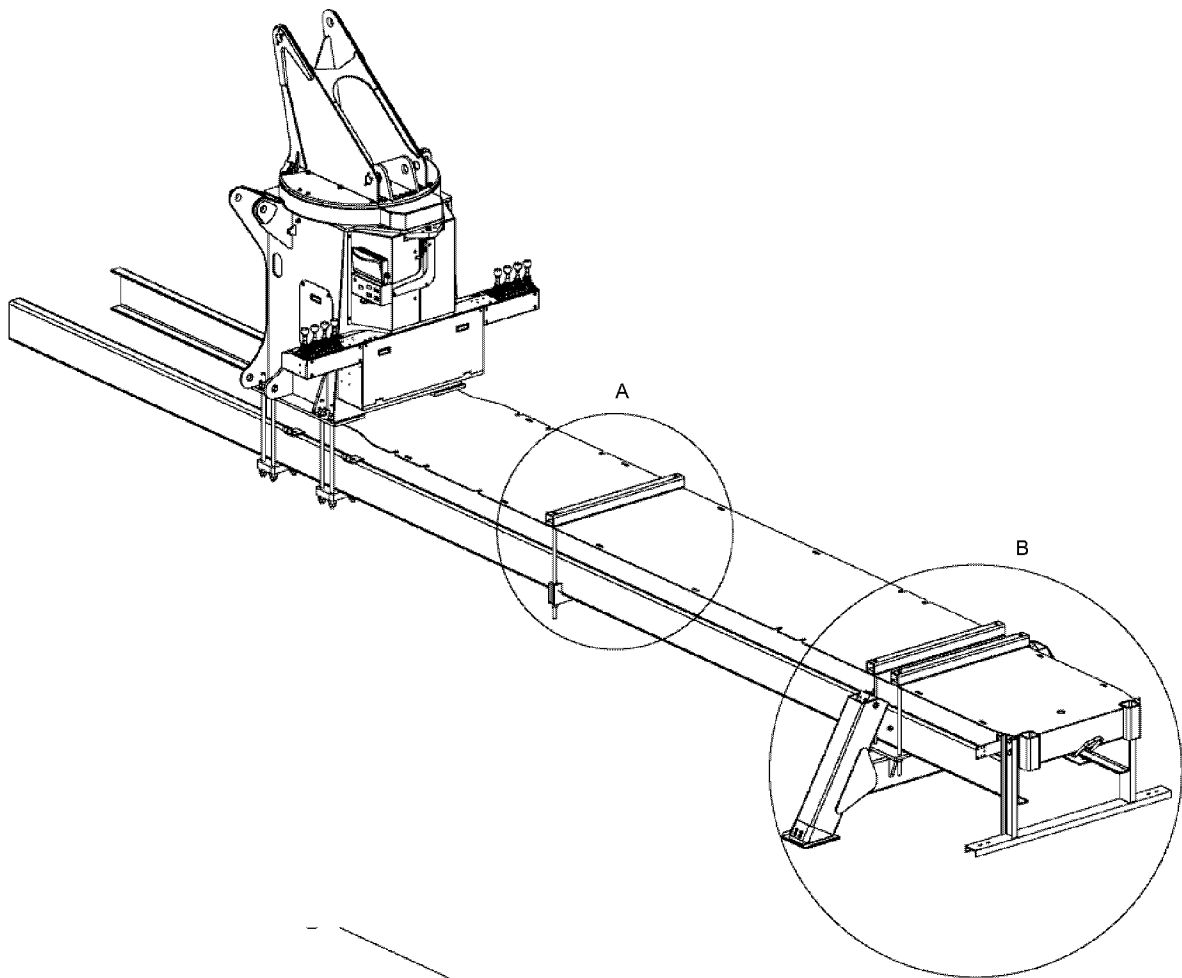
**2**

## SEE PAGES 2.2, 2.3

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10018	<i>Subframe - Mainframe Assembly (Items 1-22)</i>	
1	220-07056	Rod, Tie.....	6
2	220-09117	Tiedown Rod, Mainframe 1.00 - 14 X 26.0.....	16
3	695-00185	Mainframe - Console Assembly .....	1
4	695-00189	Subframe Assembly .....	1
5	701-00768	Mid - Mount Tiedown Assembly .....	2
6	709-01902	Frame Reinforcement.....	AS REQ
7	760-00446	Auxiliary Outrigger Assembly .....	1
8	772-00028	Frame Stiffener Weldment .....	4
9	772-00029	Frame Stiffener Weldment .....	4
10	782-01734	Cross Tube .....	3
11	789-05767	Tie Down Plate .....	4
12	789-05852	Tap Block .....	6
13	CHASSIS FRAME	Chassis Frame .....	REF
14	N04-A00S000-Y8	Nut, HEX 1.00 - 14, ST YZ GR8.....	32
15	N04-A25F000-Y8	Nut, HEX 1.25 - 12, ST YZ GR8.....	4
16	N05-750F000-Y8	Nut, HEX Jam 0.75 - 16, ST YZ GR8.....	6
17	N05-A00S000-2A	Nut, HEX Jam 1.00 - 14, ST Z GRA.....	32
18	N12-750F000-2A	Nut, HEX HVY 0.75 - 16, ST ZN GRA.....	6
19	NYL-625C000-25	Nut, HEX NYL - INS 0.625 - 11, ST Z G5 .....	AS REQ
20	S01-625CC50-25	Screw, HHCS 0.625 - 11 X 3.50, ST Z GR5 .....	AS REQ
21	WAH-75NX000-Y2	Washer, FL HRD A - NRW 0.75, ST YZ.....	6
22	WAH-A0NX000-Y2	Washer, FL HRD A - NRW 1.00, ST YZ.....	32

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

	<h3 style="margin: 0;">SUBFRAME ASSEMBLY</h3>	DATE: Revised 07-2009	<b>GROUP</b>  <span style="font-size: 2em; font-weight: bold;">2</span>
		MODEL: BT3870	
		PAGE 2.4	



DETAIL A

**SEE PAGE 2.6**

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



**SUBFRAME INSTALLATION**

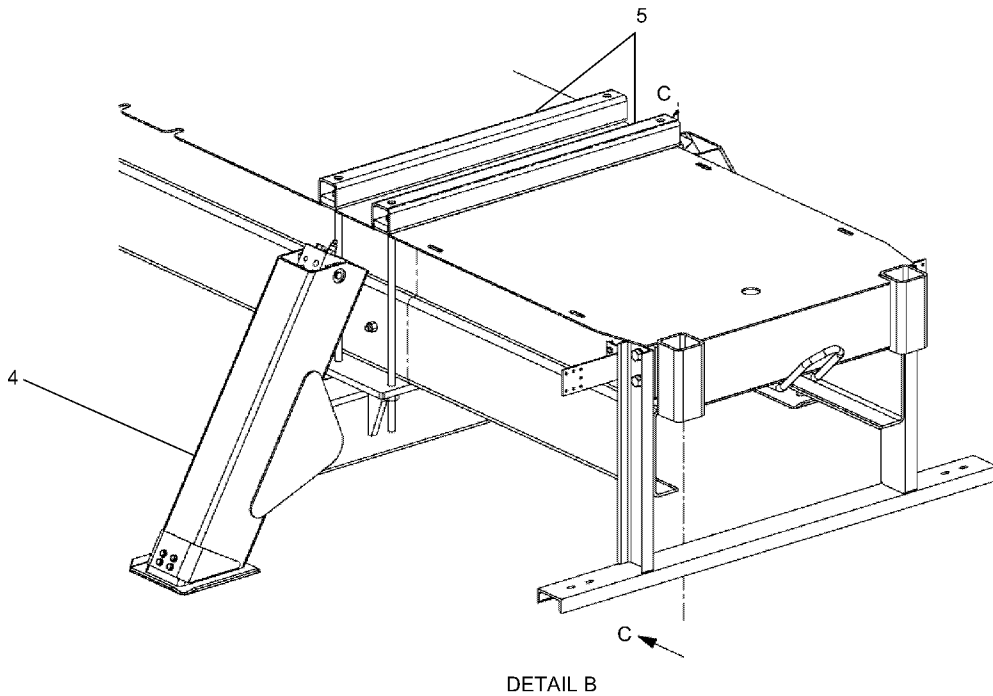
DATE: Revised 07-2009

MODEL: BT3870

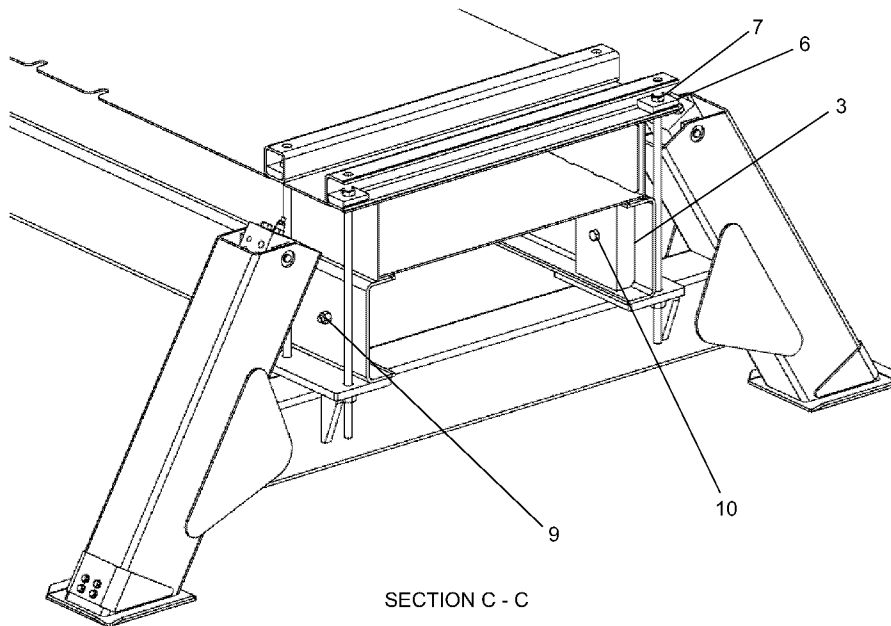
PAGE 2.5

GROUP

**2**



DETAIL B



SECTION C - C

**SEE PAGE 2.5**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
1	220-07056	Rod, Tie .....	6	8	N12-750F000-2A	Nut, HEX HVY 0.75 - 16, ST ZN GRA.....	6
2	701-00768	Mid - Mount Tie Down Assembly .....	2	9	NYL-625C000-25	Nut, HEX NYL - INS 0.625 - 11, ST Z G5 .....	AS REQ
3	709-01902	Frame Reinforcement.....	AS REQ	10	S01-625CC50-25	Screw, HHCS 0.625 - 11 X 3.50, ST Z GR5 .....	AS REQ
4	760-00446	Auxiliary Outrigger Assembly.....	1	11	WAH-75NX000-Y2	Washer, FL HRD A - NRW 0.75, ST YZ .....	6
5	782-01734	Cross Tube .....	3				
6	789-05852	Tap Block .....	6				
7	N05-750F000-Y8	Nut, HEX Jam 0.75 - 16, ST YZ GR8 .....	6				

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



**SUBFRAME INSTALLATION**

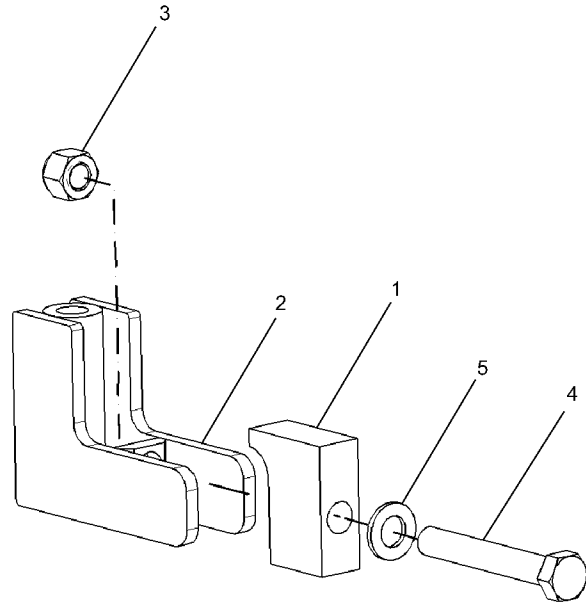
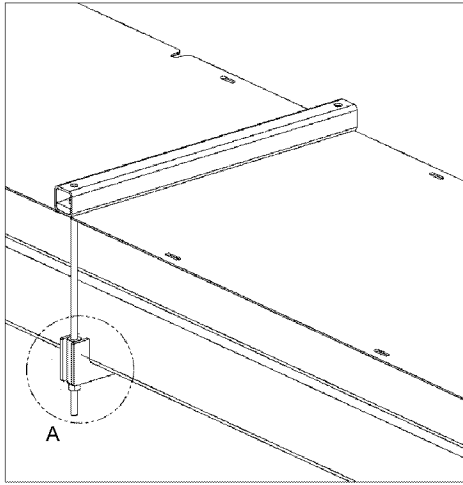
DATE: Revised 07-2009

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PAGE 2.6

GROUP

**2**



DETAIL A

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	701-00768	Mid-Mount Tiedown assembly (Items 1-5)	
1	701-00769	Clamp Plate, Mid-Mount .....	1
2	701-00767	Mid-Mount Weldment .....	1
3	NYL-750C000-Y8	NUT, HEX NYL-INS 0.75-10,ST YZ G8 .....	1
4	S01-750CE00-Y8	HHCS 0.75-10X5.00, ST YZ GR8 .....	1
5	WAH-75NX000-Y2	WSH, FL HRD A-NRW 1.75, ST YZ.....	1

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

	<b>MIDMOUNT TIEDOWN</b> Assembly	DATE: Revised 07-2009	<b>GROUP</b>  <b>2</b>
		MODEL: BT3870	
		PAGE 2.7	



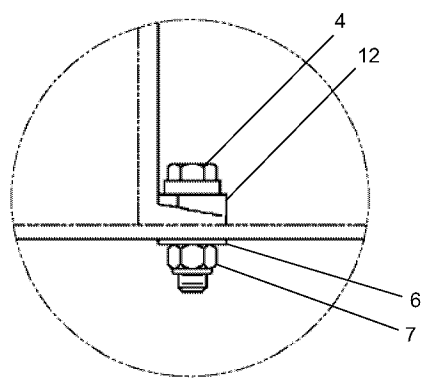
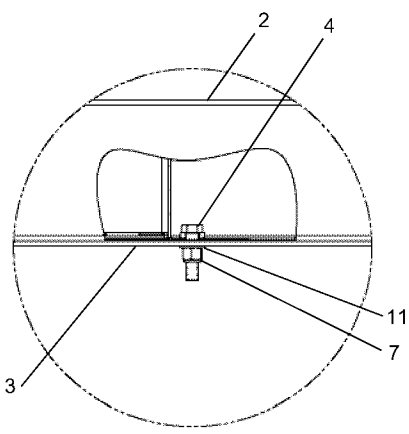
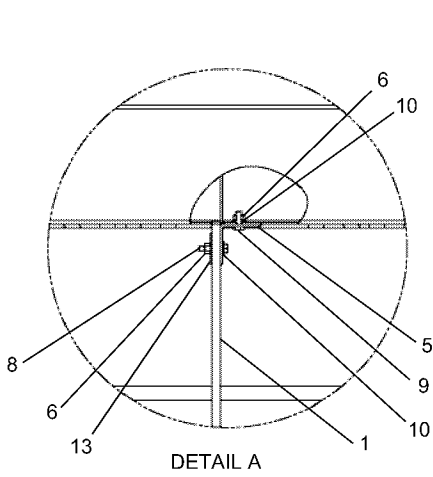
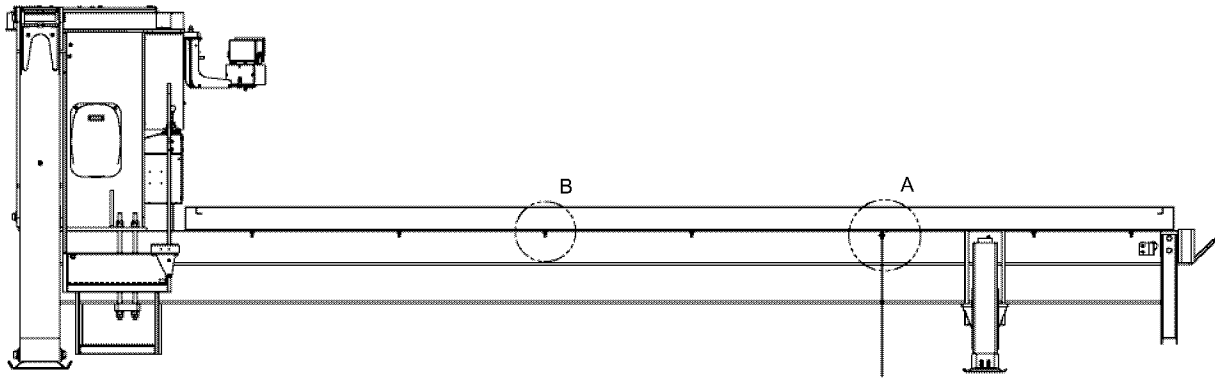


## BT3870

PART NUMBER	FLATBED OPTION
600-38232-1	20' Steel Standard Duty Flatbed
600-38232-2	20' Wood Standard Duty Flatbed
600-38232-3	20' Steel Super Duty Flatbed
600-38232-4	20' Wood Super Duty Flatbed

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

	<b>FLATBED OPTIONS</b>	DATE: Revised 07-2009	<b>GROUP 2</b>
		MODEL: BT3870	
		PAGE 2.8	



DETAIL A

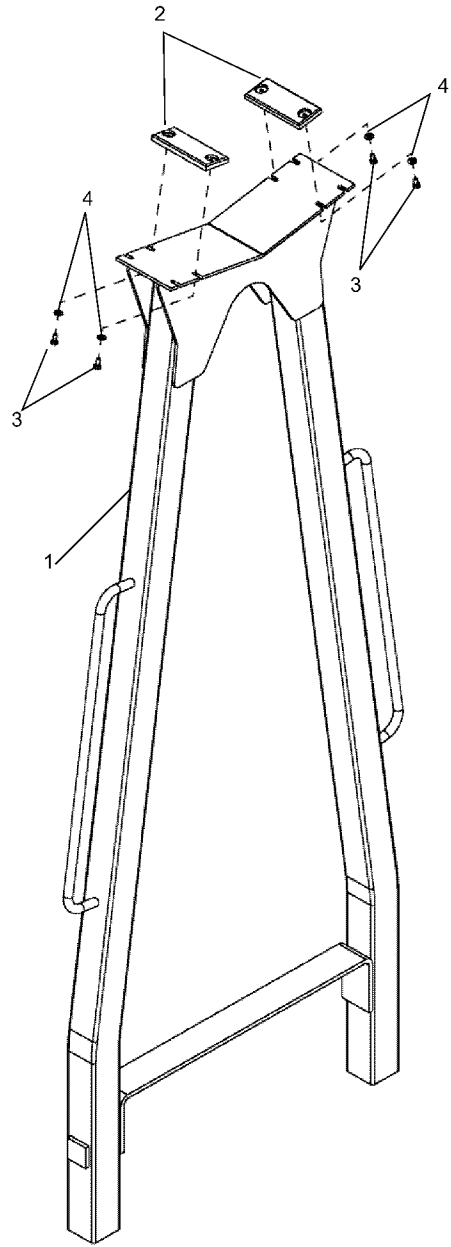
DETAIL B  
STD FLATBED  
TYP MOUNTING  
BOTH SIDES

SUPER DUTY FLATBED  
TYP MOUNTING  
BOTH SIDES (VIEW FOR REF)

REF	PART NO.	DESCRIPTION	QTY
1	209-00461	Mudflap.....	2
2	600-38232-1	Flatbed, Steel, Std Duty 240.00.....	REF
3	695-10018	Subframe - Mainframe Assembly.....	REF
4	709-01925	Flatbed Bolt Weld.....	12
5	785-00561	Support Angle - Mudflap.....	2
6	NYL-250C000-25	Nut, Hex NYL - INS 0.25 - 20, ST Z G5.....	18
7	NYL-500C000-25	Nut, Hex NYL - INS 0.50 - 13, ST Z G5.....	12
8	S01-250CA25-25	Screw, HHCS 0.25 - 20 X 1.25, ST Z GR5.....	8
9	SHF-250C750-25	Screw, HHCS FT 0.25 - 20 X 0.75, ST Z G5.....	6
10	WAN-25NX000-20	Washer, FL TYPA - NRW 0.25, ST Z.....	26
11	WAN-50NX000-20	Washer, FL TYPA - NRW 0.50, ST Z.....	16
12	WBV-500X001	Bevel Washer 1/2" Zinc PLT.....	REF
13	WFD-250XA50-20	Washer, FNDR 0.25 X 1.50, ST Z.....	8

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

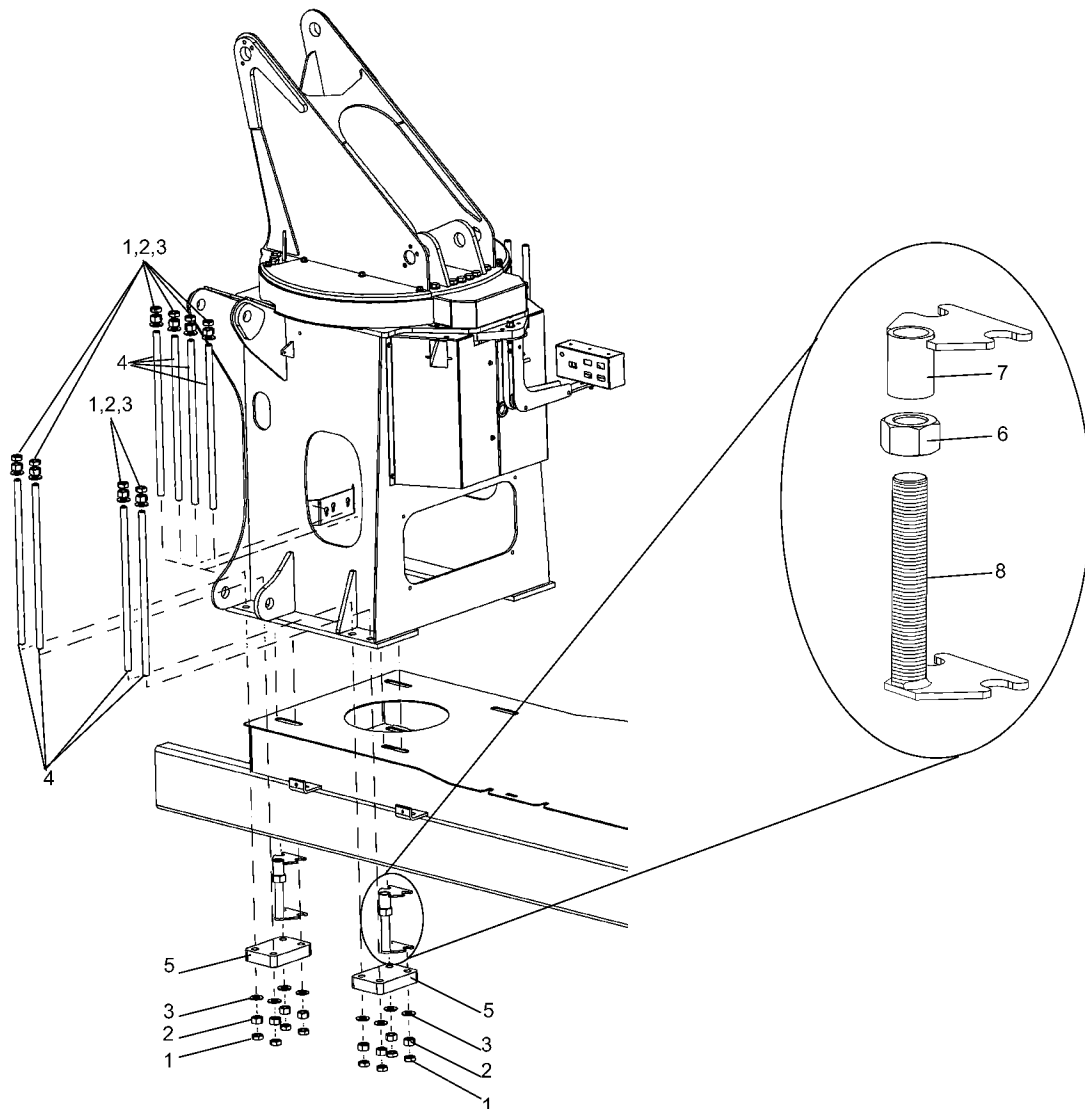
	<b>FLATBED INSTALLATION</b> Mudflap	DATE: Revised 07-2009	<b>GROUP</b> <b>2</b>
		MODEL: BT3870	
		PAGE 2.9	



REF	PART NO	DESCRIPTION	QTY
	698-00065	Boom Rest Assy (Items 1-4)	
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

	<b>BOOM REST ASSEMBLY</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>2</b>
		MODEL: BT3870	
		PAGE 2.10	



REF	PART NO	DESCRIPTION	QTY
1	N05-A00S000-2A	Nut, Hex Jam 1-14, ST Z GRA .....	32
2	N04-A00S000-Y8	Nut, Hex 1-14 ST YZ GR8 .....	32
3	Wah-A0NX000-Y2	WSH, FL Hard A-NRW 1.00 ST YZ .....	32
4	220-09117	Tiedown Rod, Mainframe 1-14x16.....	16
5	789-05767	Tie Down Plate .....	4
6	N04-A25F000-Y8	Nut, Hex 1.25-12, ST YZ GR8.....	4
7	772-00028	Frame Stiffener Weldment.....	4
8	772-00029	Frame Stiffener Weldment.....	4

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



## MAINFRAME INSTALLATION

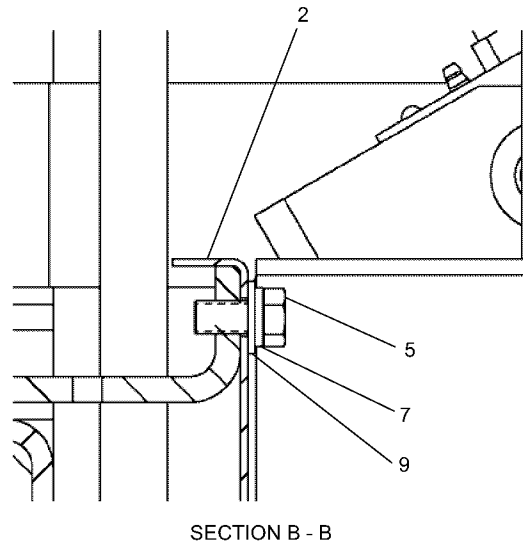
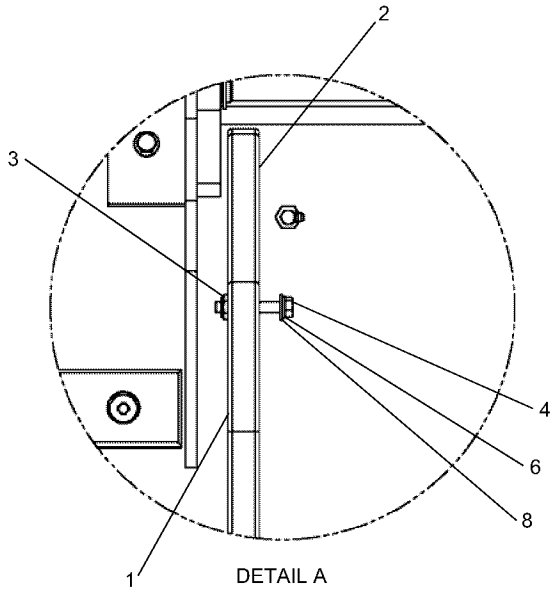
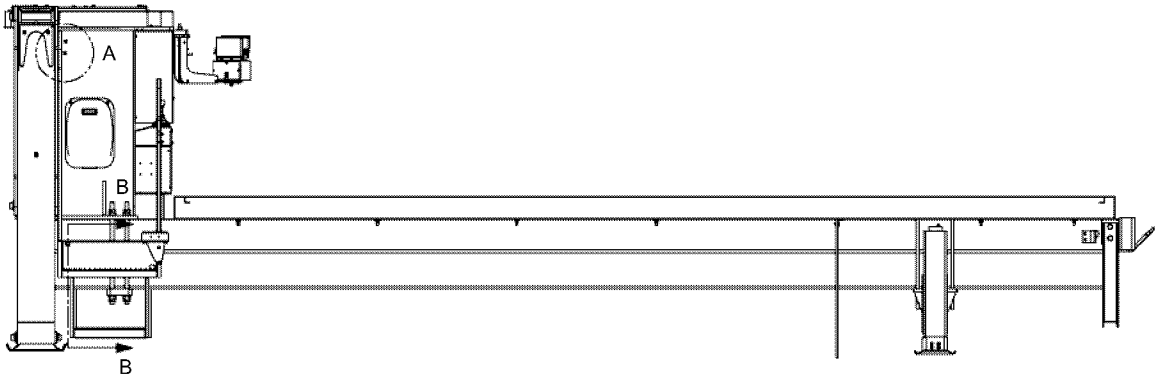
DATE: Revised 07-2009

MODEL: BT3870

PAGE 2.11

GROUP

**2**



REF	PART NO.	DESCRIPTION	QTY
1	695-10018	Subframe - Mainframe Assembly .....	REF
2	695-10026-1	Plat Form U.S Street Side .....	1
3	NYT-375C000-22	Nut, Nylk Hvythn 0.375 - 16, ST Z G2 .....	2
4	S01-375CB25-25	Screw, HHCS 0.375 - 16 X 2.25, ST Z GR5 .....	2
5	SHF-500CA00-25	Screw, HHCS FT 0.50 - 13 X 1.00, ST Z G5 .....	4
6	W07-375X000-20	Washer, LCK, Med Splt 0.375, ST Z .....	2
7	W07-500X000-20	Washer, LCK, Med Splt 0.50, ST Z .....	4
8	WAN-37NX000-20	Washer, FL TYPA-NRW 0.375, ST Z .....	2
9	WAN-50NX000-20	Washer, FL TYPA-NRW 0.50, ST Z .....	16

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



**OPERATOR PLATFORM**  
Installation

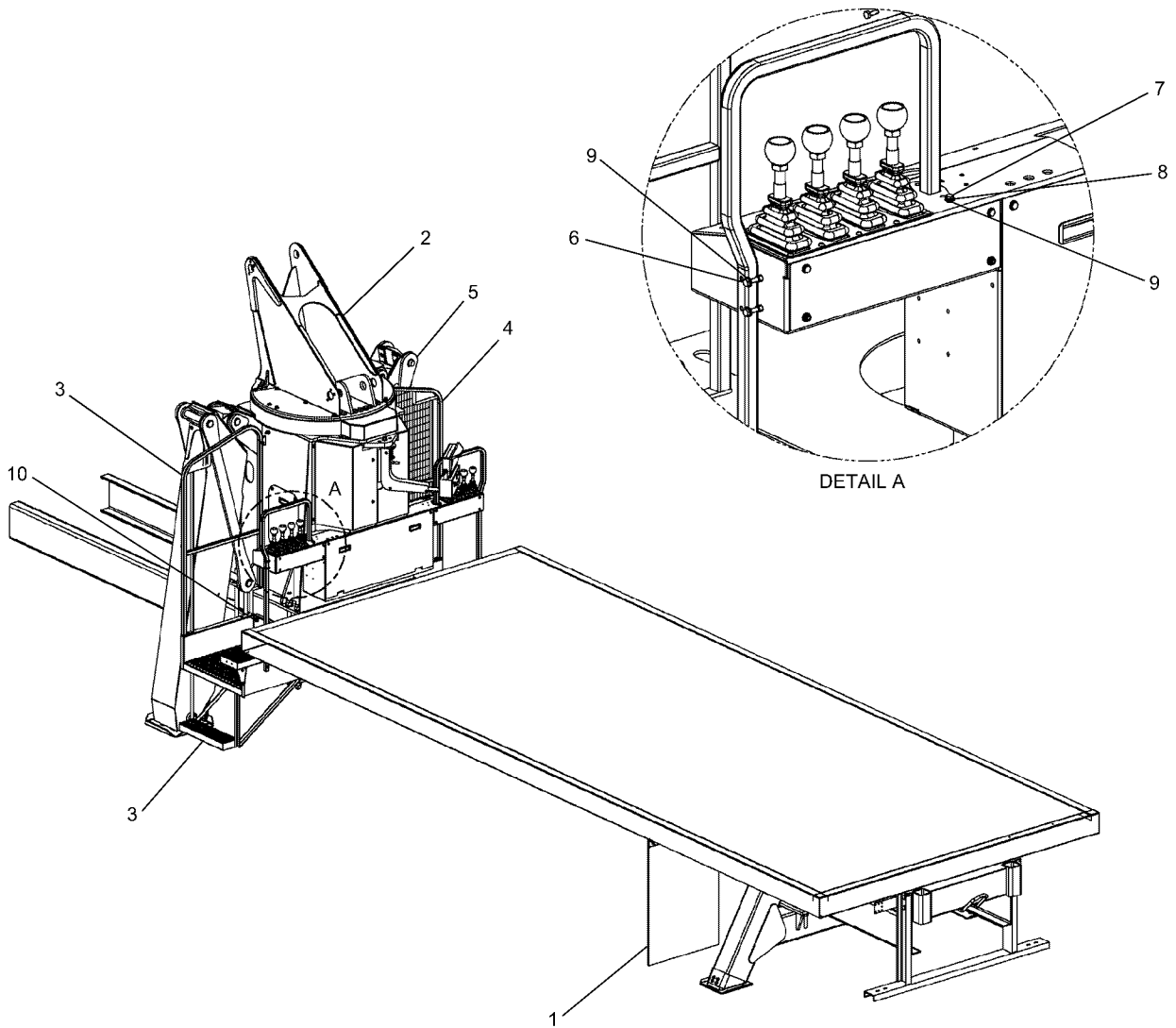
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**2**



REF	PART NO.	DESCRIPTION	QTY
1	209-00461	Mudflap .....	2
2	695-10018	Subframe - Mainframe Assembly .....	REF
3	695-10026-1	Plat Form U.S Street Side .....	1
4	695-10026-2	Plat Form U.S Curb Side .....	1
5	760-00445	Leg Assy, Main Outrigger .....	2
6	S01-250CA75-25	Screw, HHCS 0.25 - 20 X 1.75, ST Z GR5 .....	4
7	SHF-250C625-25	Screw, HHCS FT 0.25 - 20 X 0.625, ST Z G5 .....	4
8	W07-250X000-20	Washer, LCK, Med Spl't 0.25, ST Z .....	4
9	WAN-25NX000-30	Washer, FL TYPA - NRW 0.25, ST Z .....	26
10	WAN-50NX000-20	Washer, FL TYPA - NRW 0.50, ST Z .....	16

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



**OPERATOR PLATFORM**  
Assembly

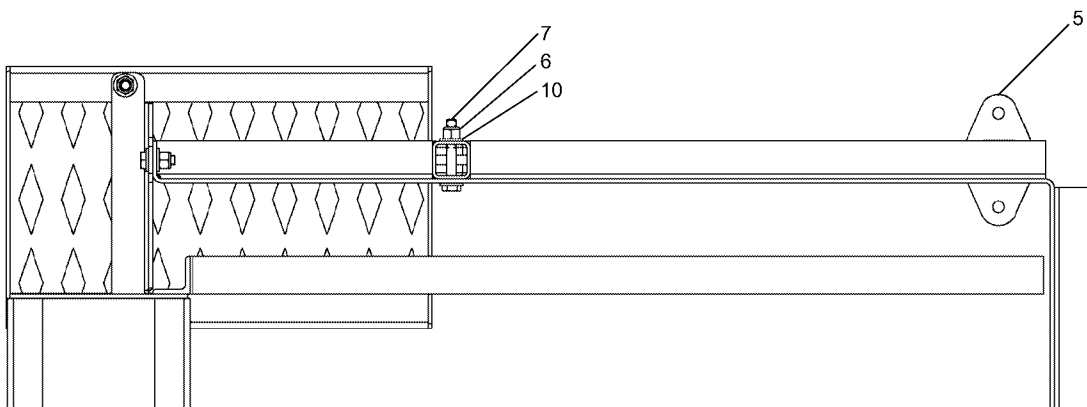
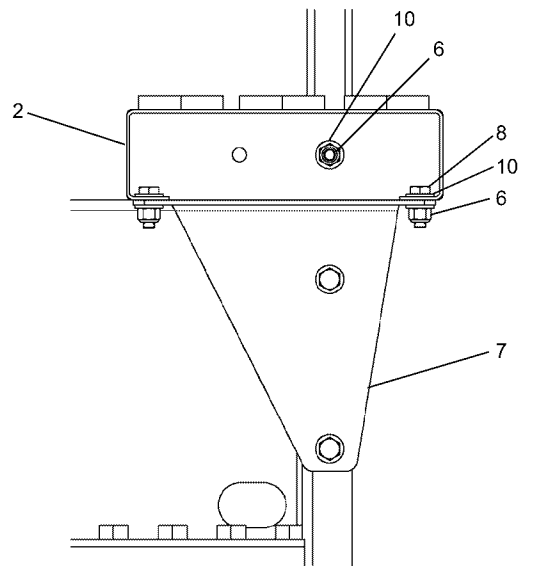
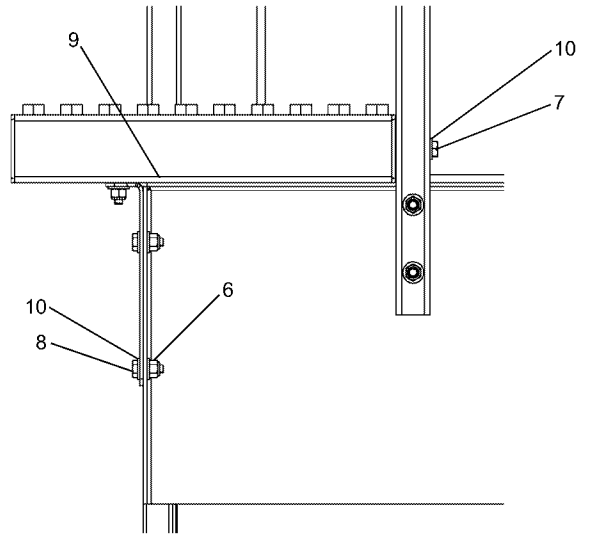
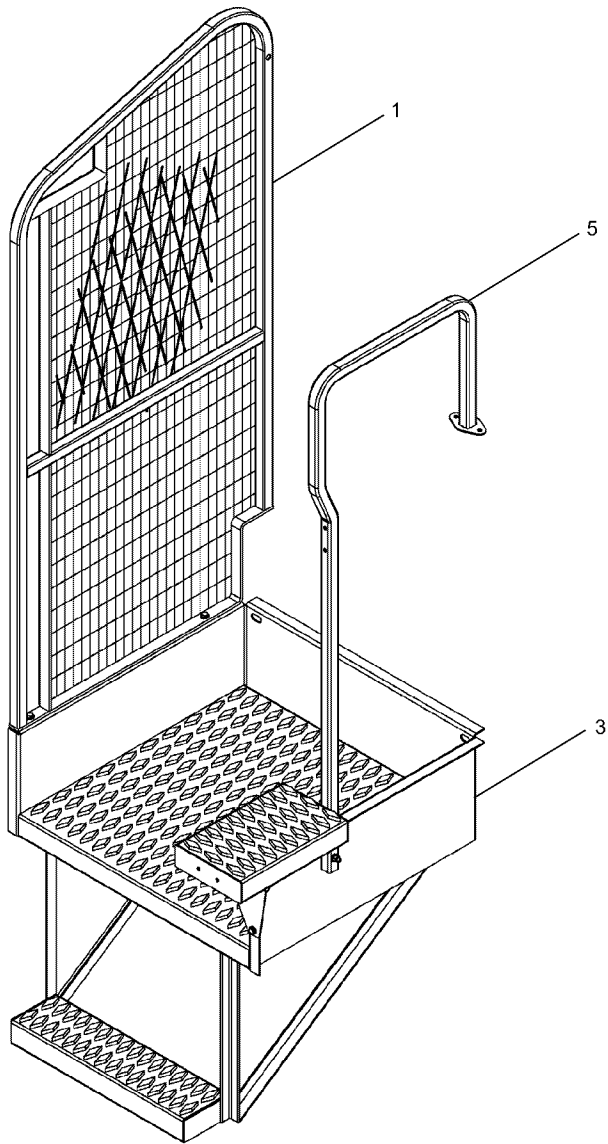
DATE: Revised 07-2009

MODEL: BT3870

PAGE 2.13

GROUP

**2**



**SEE PAGE 2.15**

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



**PLATFORM U.S. STREET SIDE**

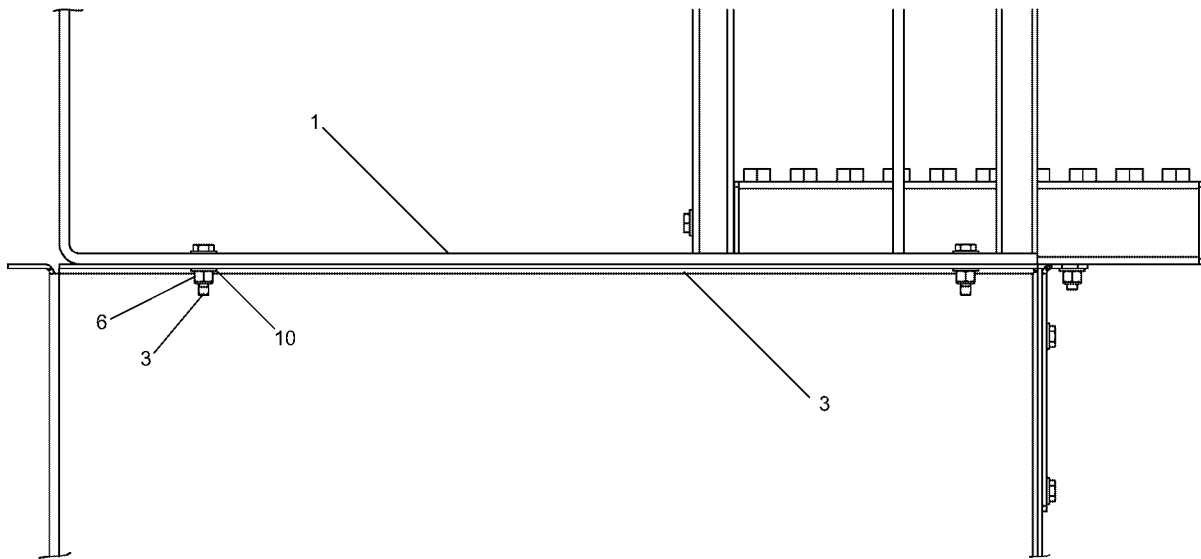
DATE: Revised 07-2009

MODEL: BT3870

PAGE 2.14

GROUP

**2**



**SEE PAGE 2.14**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10026-1	<i>Platform U.S Street Side (Items 1-10)</i>	
1	709-01880	Rear Guard, Platform .....	1
2	709-01883	Step Weldment.....	1
3	709-01917	Platform Weldment Street Side .....	1
4	789-05845	Bracket, Platform Step .....	1
5	809-00512	Console Handle Weldment.....	1
6	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20,ST Z G5 .....	9
7	S01-250CA75-25	Screw, HHCS 0.25-20X1.75,ST Z GR5 .....	3
8	SHF-250C750-25	Screw,HHCS FT 0.25-20X0.75,ST Z G5.....	4
9	SHF-250C875-25	Screw,HHCS FT 0.25-20X0.875,ST Z G5.....	2
10	WAN-25NX000-20	Washer, FL TYP A-NRW 0.25, ST Z.....	18

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



**PLATFORM U.S. STREET SIDE**

DATE: Revised 07-2009

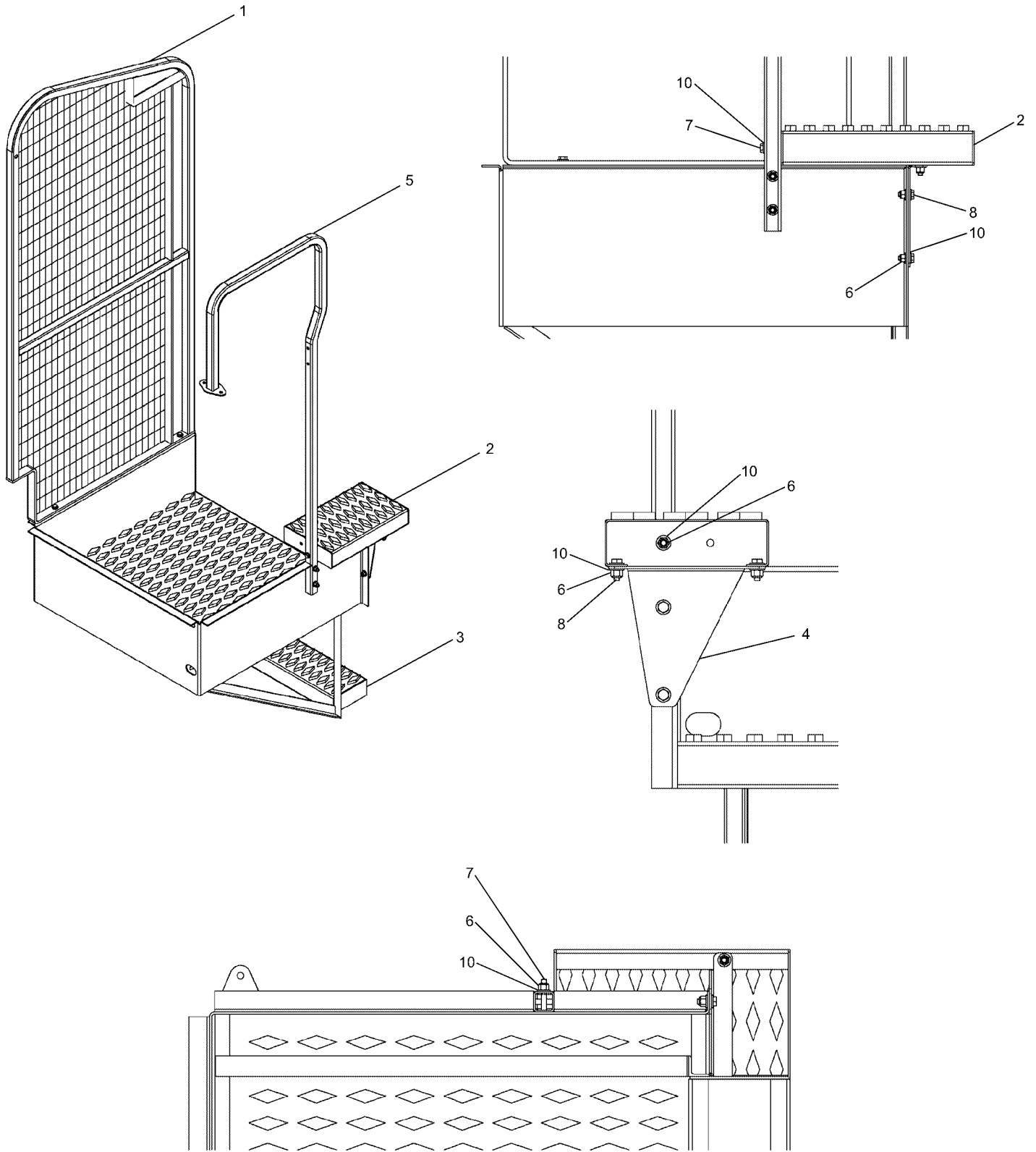
MODEL: BT3870

PAGE 2.15

**GROUP**

**2**





SEE PAGE 2.17

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



PLATFORM U.S. CURB SIDE

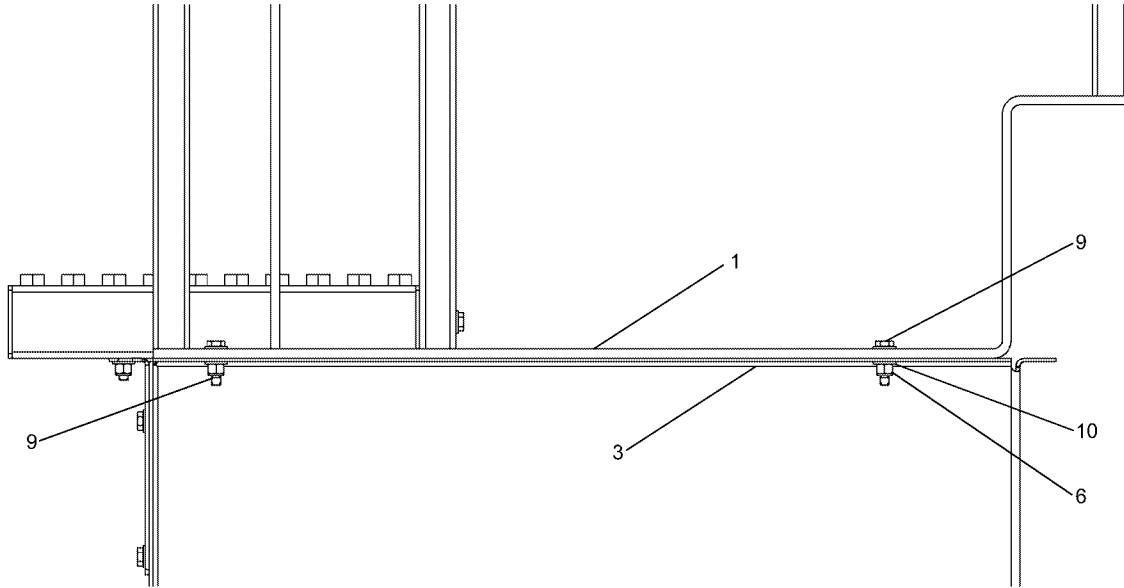
DATE: Revised 07-2009

MODEL: BT3870

PAGE 2.16

GROUP

2



**SEE PAGE 2.16**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-10026-2	<i>Platform U.S Curb Side (Items 1-10)</i>	
1	709-01881	Rear Guard, Platform .....	1
2	709-01883	Step Weldment.....	1
3	709-01916	Platform Weldment Curb Side.....	1
4	789-05846	Step Bracket, Platform .....	1
5	809-00512	Console Handle Weldment.....	1
6	NYL-250C000-25	Nut, HEX NYL - INS 0.25-20,ST Z G5 .....	9
7	S01-250CA75-25	Screw, HHCS 0.25-20X1.75,ST Z GR5 .....	3
8	SHF-250C750-25	Screw,HHCS FT 0.25-20X0.75,ST Z G5.....	4
9	SHF-250C875-25	Screw,HHCS FT 0.25-20X0.875,ST Z G5.....	2
10	WAN-25NX000-20	Washer, FL TYP A-NRW 0.25, ST Z.....	18

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

	<b>PLATFORM U.S. CURB SIDE</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>2</b>
		MODEL: BT3870	
		PAGE 2.17	



2

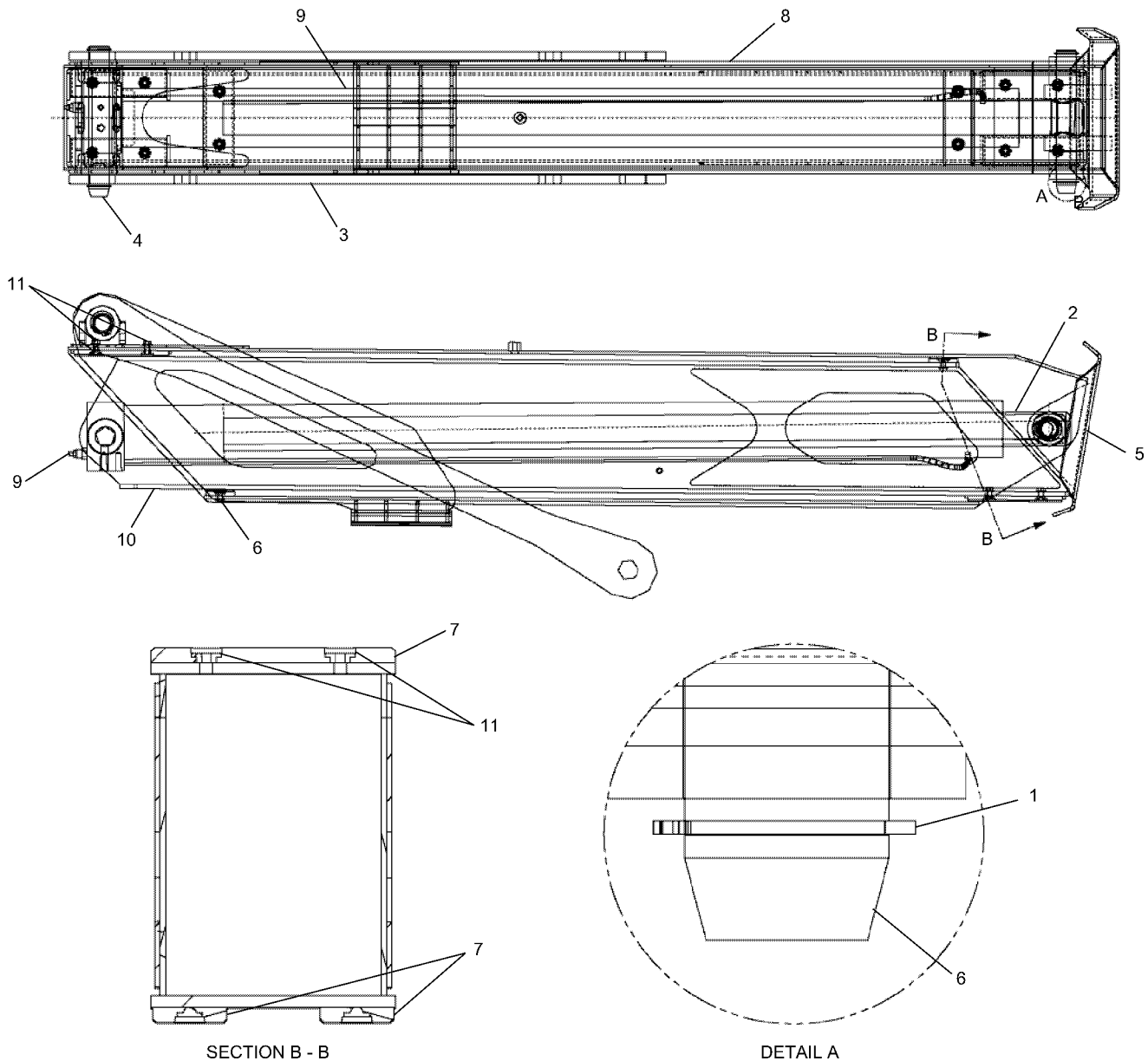
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3

<u>REF</u>	<u>PART NO</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	Page 3.2	Main Outrigger Assembly .....	2
2	Page 3.5	Auxiliary Outrigger Assembly .....	1
3	Page 51.5	Front Bumper Outrigger Installation .....	1

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

	<h2>OUTRIGGERS</h2>	DATE: Revised 07-2009	<b>GROUP</b>  <b>3</b>
		MODEL: BT3870	
		PAGE 3.1	



REF	PART NO.	DESCRIPTION	QTY
	760-00445	<i>Leg Assembly, Main Outrigger (Items 1-11)</i>	
1	REX-A75X109-BP	Ring,EXTSNP HVY 1.75X0.109,ST BP .....	4
2	540-50046-ROD	540-50046-Rod .....	1
3	789-05763	Tension Link.....	2
4	870-80021	Pin, Outrigger 1.75 X 12.875.....	1
5	760-20479	Main Outrigger Shoe Weldment.....	1
6	870-80020	Pin, Outrigger 1.75 X 12.20.....	1
7	729-02819	Wear Pad, 8.25 X 2.50 X .050 .....	6
8	760-20478	Outer Leg Weldment.....	1
9	540-50046	Cylinder, Outrigger Leg, Main .....	1
10	760-20477	Inner Leg Weldment.....	1
11	SFS-375C500-27	Screw,HXFLG SER 0.375-16X0.50,G8.2 .....	12

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



## MAIN OUTRIGGER ASSEMBLY

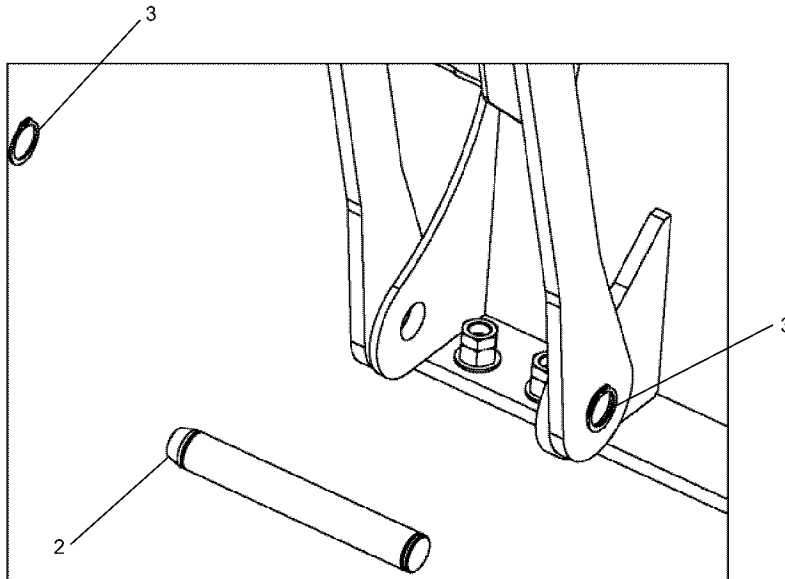
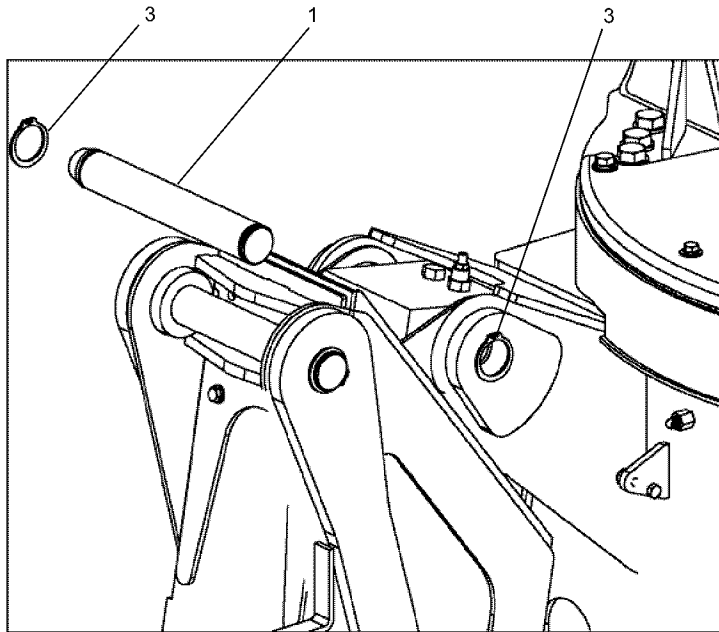
DATE: Revised 07-2009

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PAGE 3.2

GROUP

**3**



REF	PART NO.	DESCRIPTION	QTY
1	870-80020	Pin, Outrigger 1.75 X 12.20 .....	2
2	870-80021	Pin, Outrigger 1.75 X 12.875 .....	2
3	REX-A75X109-BP	Ring,EXTSNP HVY 1.75X0.109,ST BP .....	8

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



**MAIN OUTRIGGER ASSEMBLY**

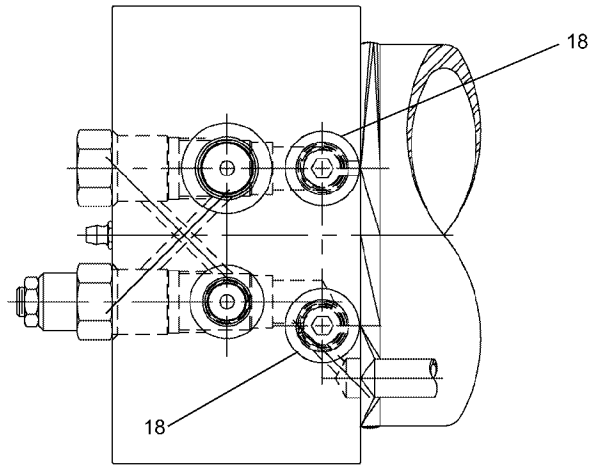
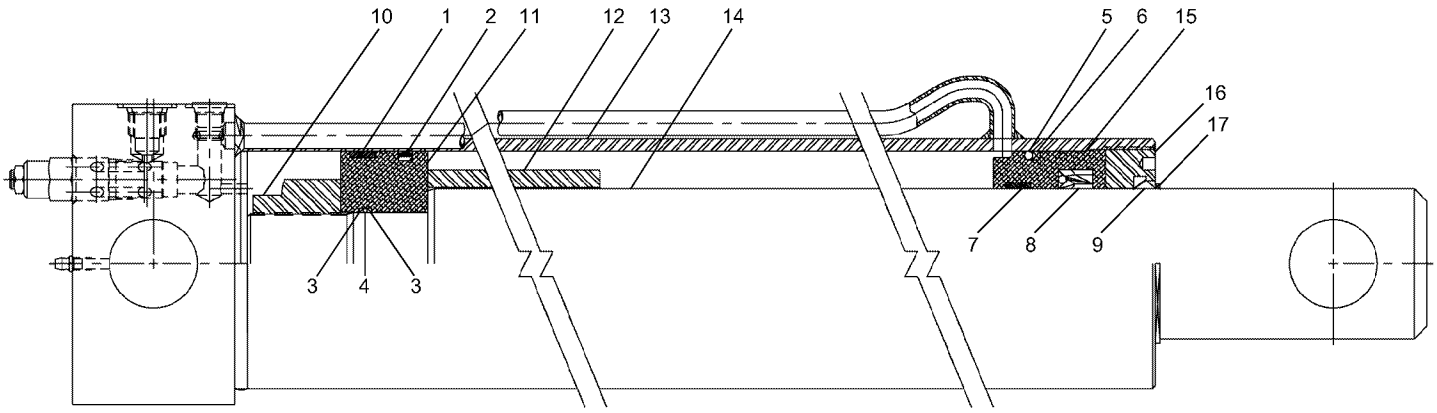
DATE: Revised 07-2009

MODEL: BT3870

PAGE 3.3

GROUP

**3**



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	540-50046	Main Outrigger Cylinder (Items 1-18)	
	268-90179	Seal Kit (Items 1-9)	
1	PART OF 268-90179	Wear Ring.....	1
2	PART OF 268-90179	PSP Seal .....	1
3	PART OF 268-90179	Back-Up Ring .....	2
4	PART OF 268-90179	O-Ring .....	1
5	PART OF 268-90179	O-Ring .....	1
6	PART OF 268-90179	Back-Up Ring .....	1
7	PART OF 268-90179	Wear Ring.....	1
8	PART OF 268-90179	Loaded U-Cup.....	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

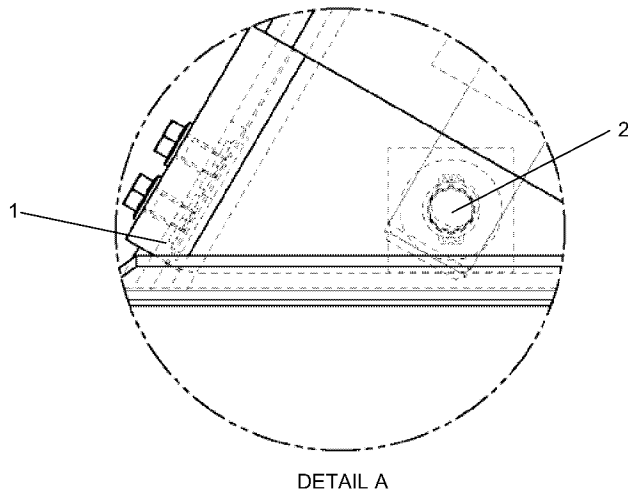
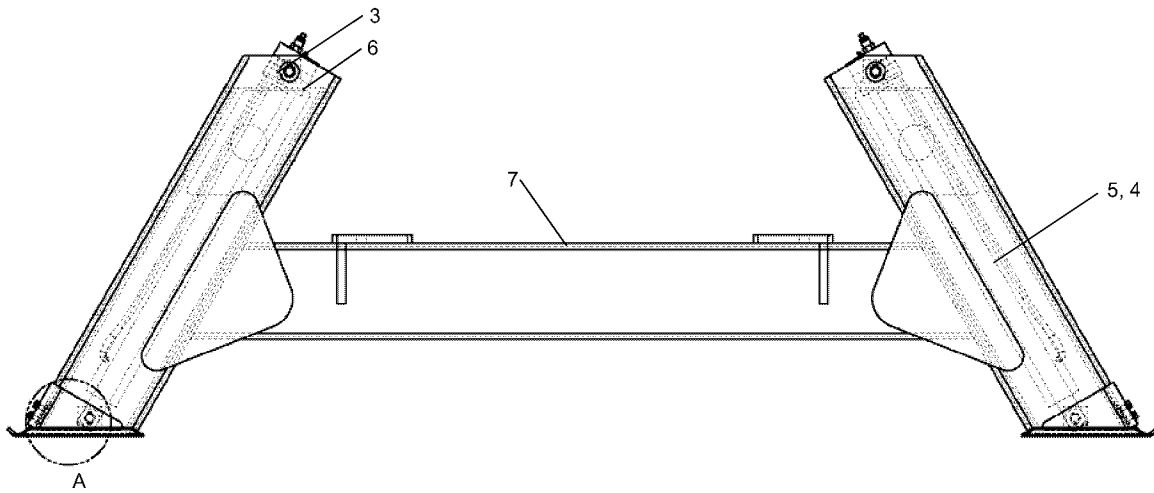
DATE: Revised 07-2009

MODEL: BT3870

PAGE 3.4

GROUP

**3**



REF	PART NO.	DESCRIPTION	QTY
	760-00446	Auxiliary Outrigger Assembly (Items 1-7)	
1	729-02820	Wear Pad, Auxiliary Outrigger .....	2
2	870-10212	Pin, Outrigger, Bottom .....	2
3	870-10213	Pin, Outrigger, Top .....	2
4	540-50049-Rod	540-50049-Rod .....	2
5	540-50049	Cylinder, Hydraulic, Auxiliary Outrigger .....	2
6	760-20481	Inner Jack Weldment .....	2
7	760-20482	Housing Weldment, Auxiliary Outrigger .....	1

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



**AUXILIARY OUTRIGGER  
ASSEMBLY**

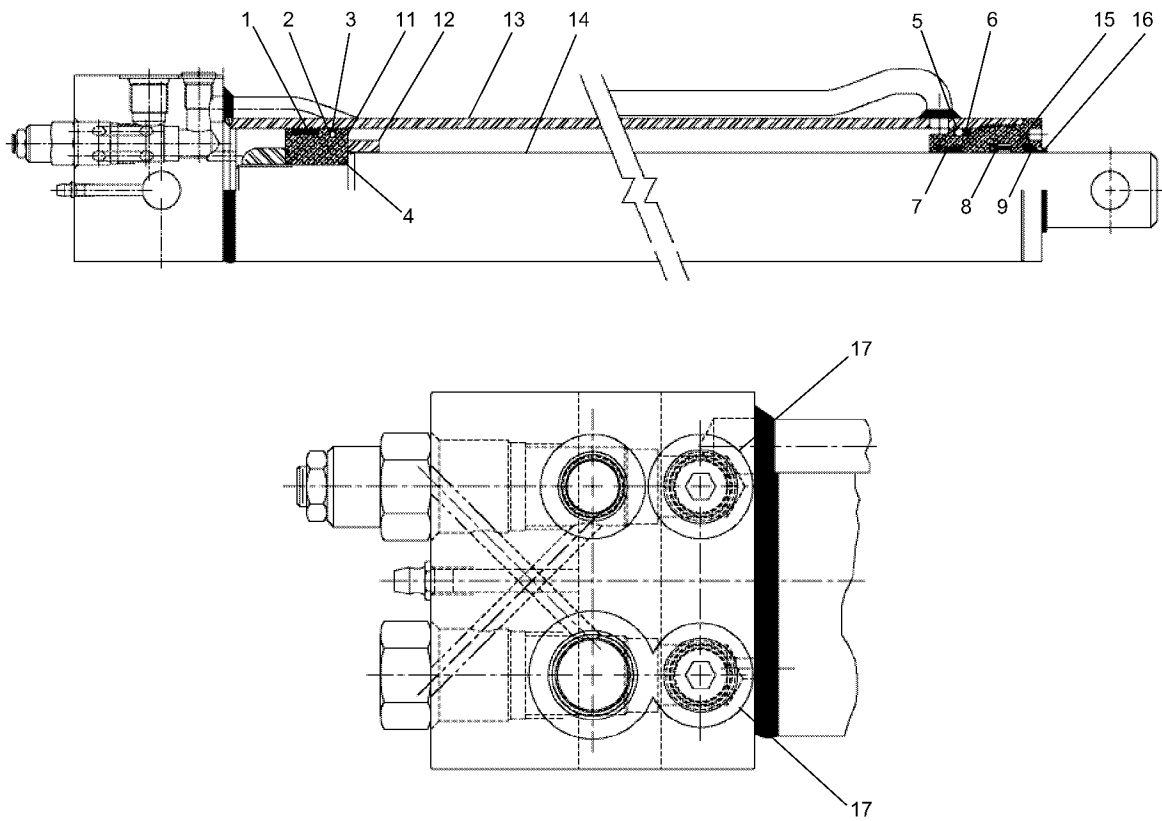
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**3**



REF	PART NO.	DESCRIPTION	QTY
	540-50049	Auxiliary Outrigger Cylinder (Items 1-17)	
	268-90196	Seal Kit (Items 1-9)	
1	PART OF 268-90196	Wear Ring.....	1
2	PART OF 268-90196	O-Ring .....	1
3	PART OF 268-90196	Poly Hone .....	1
4	PART OF 268-90196	O-Ring .....	1
5	PART OF 268-90196	O-Ring .....	1
6	PART OF 268-90196	Back-Up Ring .....	1
7	PART OF 268-90196	Wear Ring.....	1
8	PART OF 268-90196	Loaded U-Cup .....	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

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



## AUXILIARY OUTRIGGER CYLINDER

DATE: Revised 07-2009

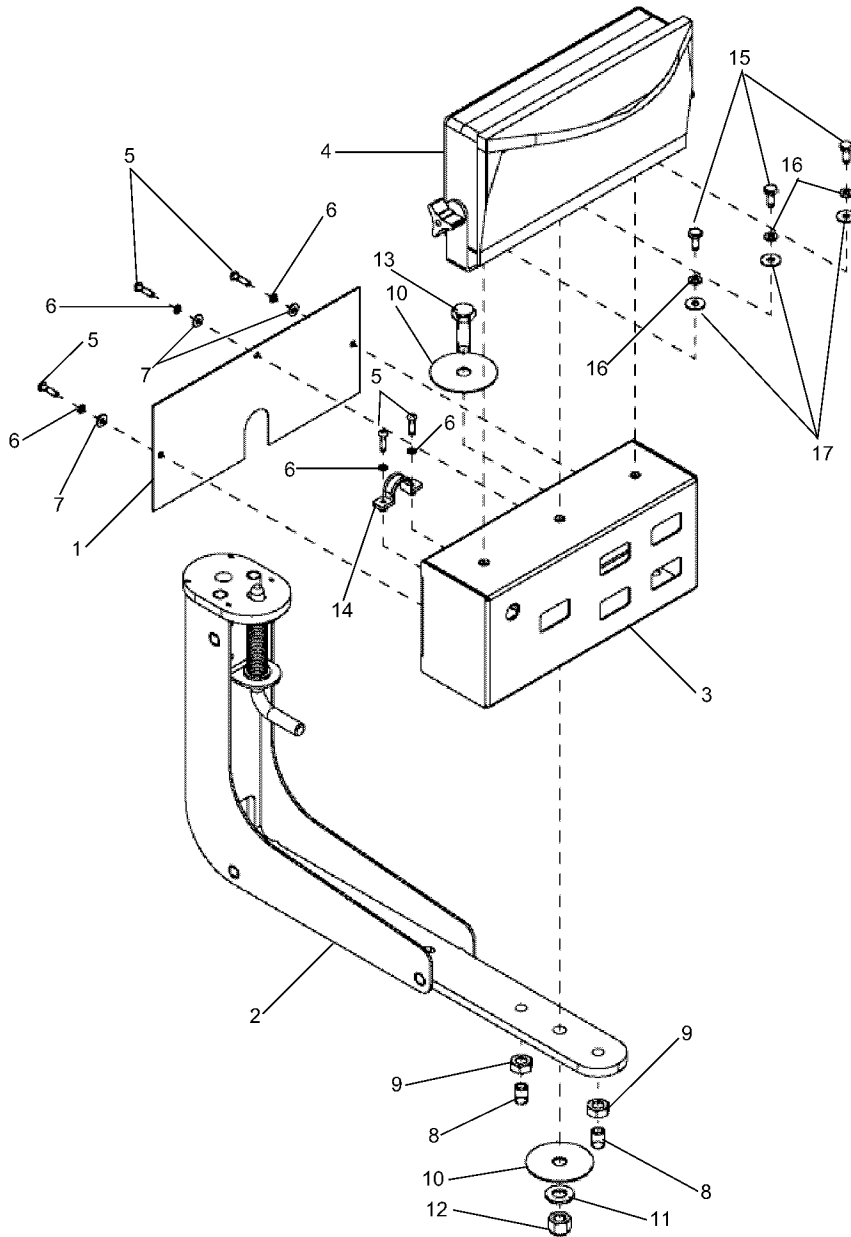
MODEL: BT3870

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GROUP

**3**





REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	695-10021	Switch Box Assy, Outriggers (Items 1-17)		10	WFD-500XB50-20	WSH, FNDR 0.50x2.50, ST Z.....	2
1	402-00047	Cover, Switch Box, Outrigger .....	1	11	WAN-50NX000-20	WSH, FL TYPA-NRW 0.50, ST Z ...	1
2	770-02822	Swing Arm Weldment .....	1	12	NYL-500C000-25	NUT, HEX NYL - INS 0.50-13, ST Z G5.....	1
3	402-00053	Switch Box Install, Outrigger.....	1	13	SHF-500CA50-25	Screw, HHCS FT 0.50-13x1.50, ST Z G 5.....	1
4	400-16137	Display, Boom Angle .....	1	14	201-00264	Strap, Rigid Plastic .....	1
5	SL5-190C750-20	Screw, CREC RND MS 10-24x0.75,ST Z.....	5	15	SHF-250C625-25	Screw,HHCS FT 0.25-20x0.625, ST Z G5 .....	3
6	W07-190X000-20	WSH, LCK, MED SPLT 10, ST Z.....	5	16	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST Z.3	3
7	WAR-190X000-22	WSH, FL TYPA-REG 10, ST Z.....	3	17	WBR-25RX734-20	WSH, FL TYPB-REG 0.25, ST Z.....	3
8	870-00173-5	Ball, Spring Plunger.....	2				
9	N05-500C000-25	NUT, HEX JAM 0.50-13, ST Z GR5. ....	2				

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



## SWITCH BOX ASSEMBLY OUTRIGGERS

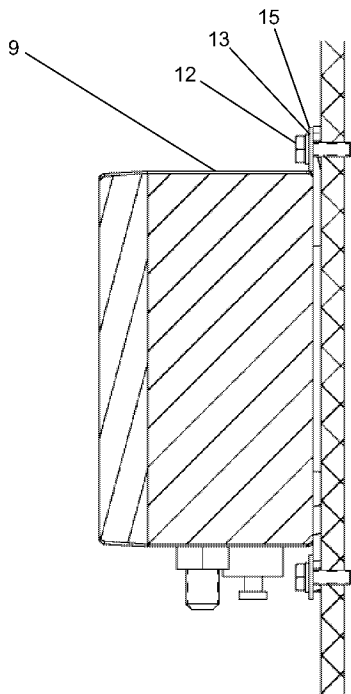
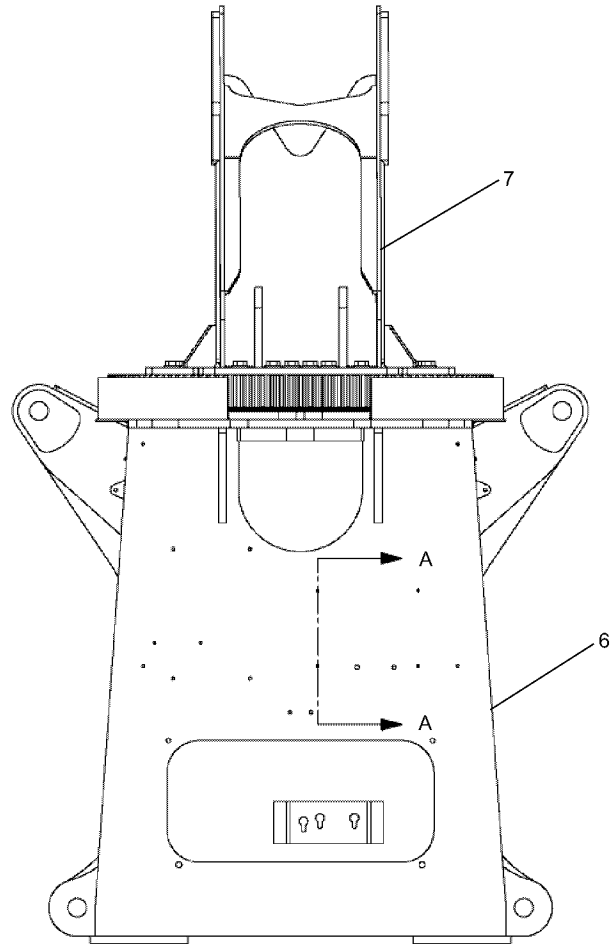
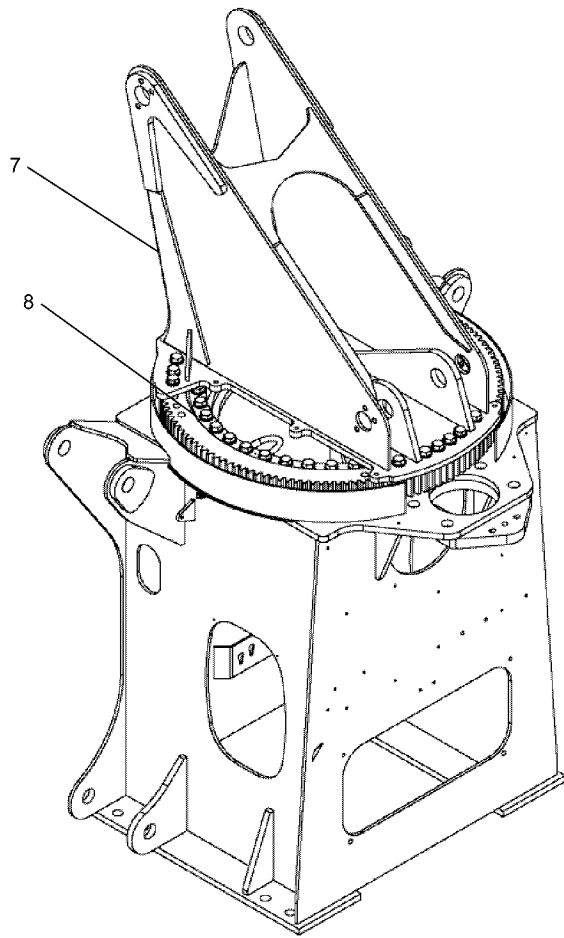
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**3**



SECTION A - A

**SEE PAGE 12.2**

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



**TURRET INSTALLATION  
NON - CONTINUOUS ROTATION**

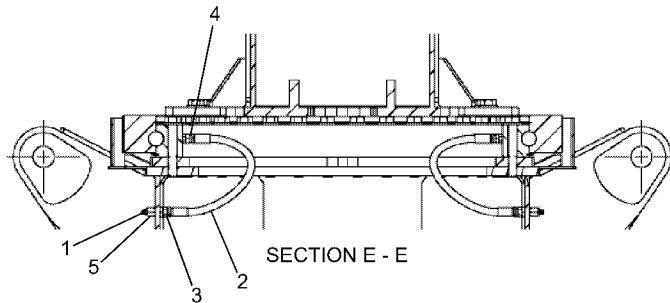
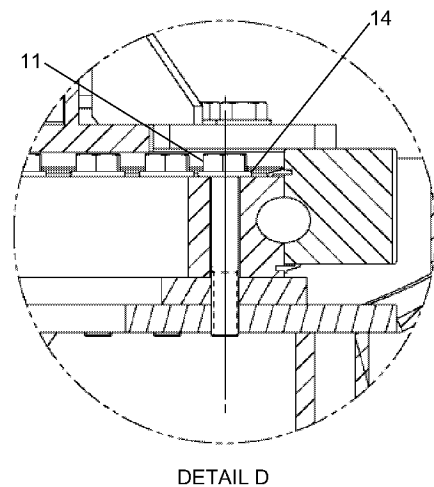
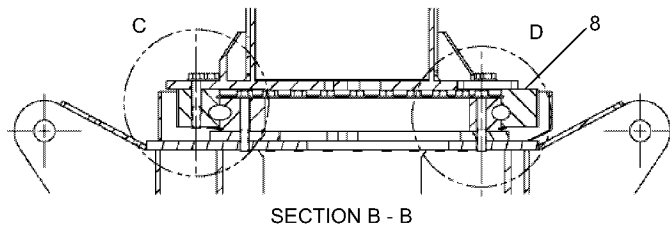
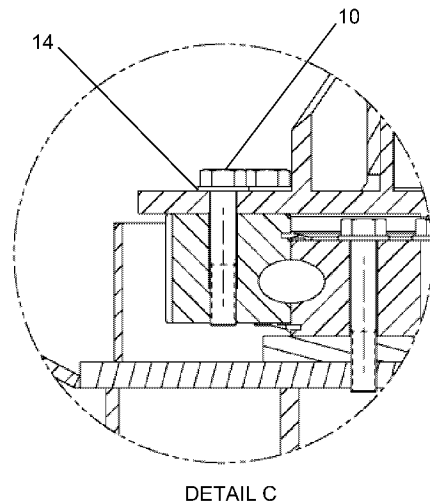
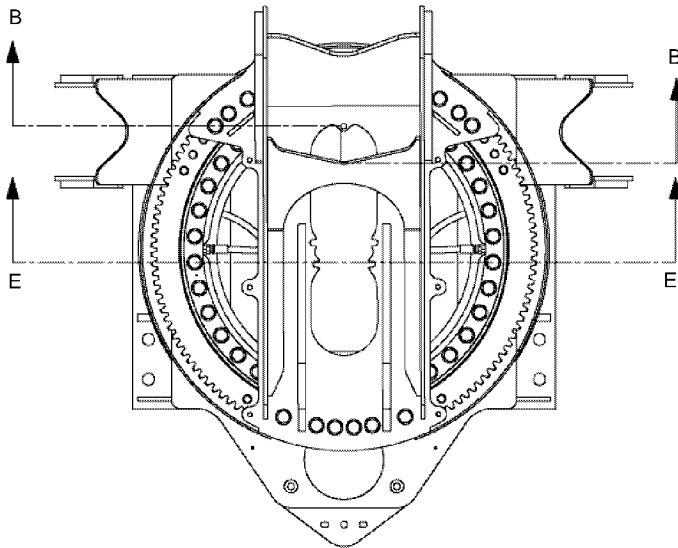
DATE: Revised 07-2009

MODEL: BT3870

PAGE 12.1

GROUP

**12**



**SEE PAGE 12.1**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	700-01000	Mainframe Turret Assembly (Items 1-15)	
1	501-03017-9	Grease FTG, 0.125 NPT, 90 Degrees .....	2
2	502-00191	Grease Line Hose, BRG .....	2
3	511-21001	Jam Nut.....	2
4	513-20029	STR CONN M#4 OFS X M#4 ORB.....	2
5	518-20001	CONN BH F 0.125 NPT X M 0.25 JIC .....	2
6	701-00764	Mainframe Weldment.....	1
7	712-00281	Turret Weldment .....	1
8	716-00041	Bearing, Swing.....	1
9	7180802	Computer, Greer A450625.....	1
10	S01-750CD00-Y8	Screw, HHCS 0.75-10X4.00, ST YZ GR8.....	20
11	S01-750CD50-Y8	Screw, HHCS 0.75-10X4.50, ST YZ GR8.....	36
12	SHF-250C750-25	Screw, HHCS FT 0.25-20X0.75, ST Z G5 .....	4
13	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z .....	4
14	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ .....	56
15	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z .....	4

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



**TURRET INSTALLATION  
NON - CONTINUOUS ROTATION**

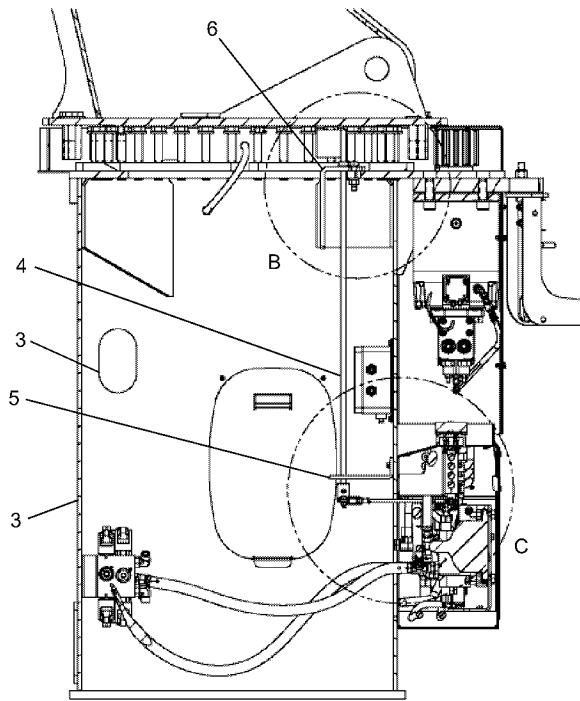
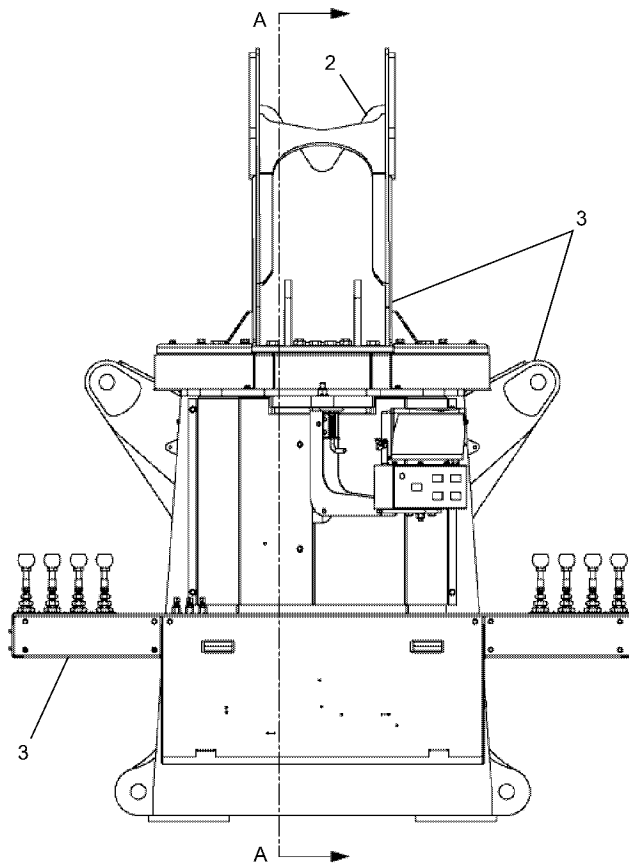
DATE: Revised 07-2009

MODEL: BT3870

PAGE 12.2

GROUP

**12**



SECTION A - A

**SEE PAGE 12.4**

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



**SWING STOP INSTALLATION**  
Non Continuous Combined flow

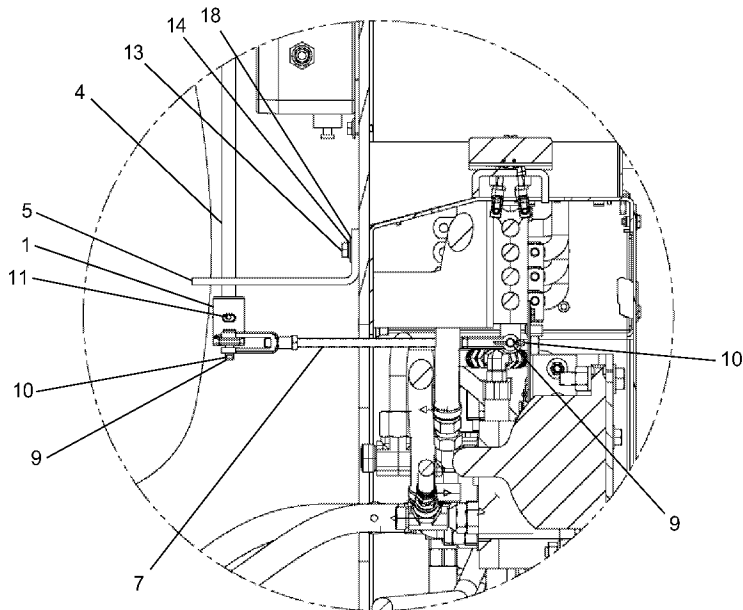
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MODEL: BT3870

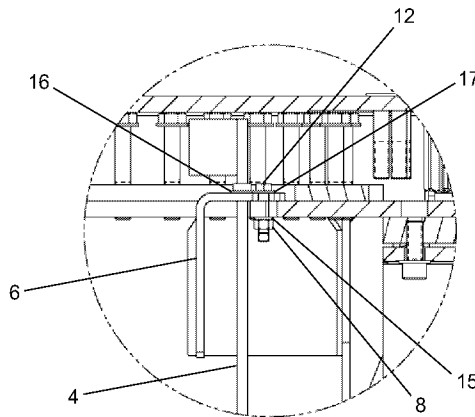
PAGE 12.3

GROUP

**12**



DETAIL B



DETAIL C

**SEE PAGE 12.3**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
1	100-30028	Assembly, Control Link .....	1	12	S01-500CB00-25	Screw, HHCS 0.50-13X2.00, ST Z GR5 .....	4
2	12169-16	Flex Trim 3/8" x 18" Long .....	3	13	SHF-312C750-25	Screw, HHCS FT 0.312-18X0.75, STZ G5 .....	2
3	695-00185	Mainframe - Console Assembly .....	REF	14	W07-312X000-20	Washer, LCK, MED SPLT 0.3125, ST Z .....	2
4	719-00480	Flag Weld, Swing Stop .....	1	15	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z .....	2
5	785-01678	Support Angle, Swing Stop .....	1	16	WAH-50NX000-Y2	Washer, FL HRD A-NRW 0.50, ST YZ .....	1
6	789-06007	Arm, Collector Ring Stop .....	1	17	WAN-50NX000-20	Washer, FL TYPA-NRW 0.50, ST Z .....	8
7	806-00245	Control Link Assembly .....	1	18	WBR-31RX875-20	Washer, FL TYPB-REG 0.3125, ST Z .....	2
8	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5 .....	2				
9	P01-312XA00-P0	Pin, Clevis 0.3125X1.00, STL .....	2				
10	P02-125X750-20	Pin, Cotter 0.125X0.75, ST Z .....	2				
11	P22-188XA50-GP	Pin, Spring SLTD 0.1875X1.50, ST .....	1				

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



**SWING STOP INSTALLATION**  
Non Continuous Combined flow

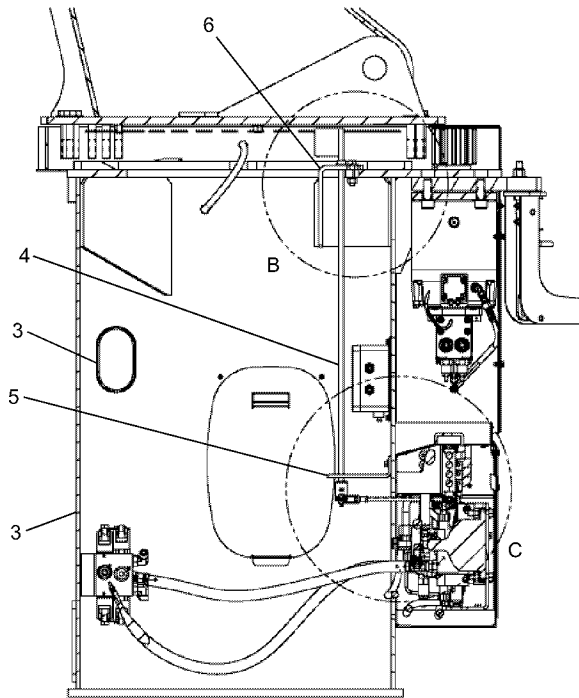
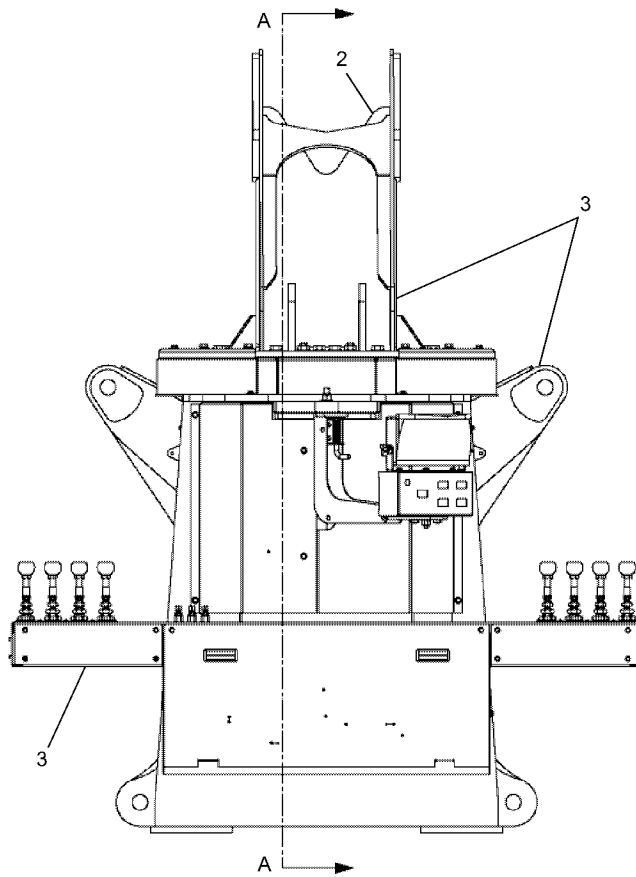
DATE: Revised 07-2009

MODEL: BT3870

PAGE 12.4

GROUP

**12**



SECTION A - A

**SEE PAGE 12.6**

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



**SWING STOP INSTALLATION**  
Motor Shift

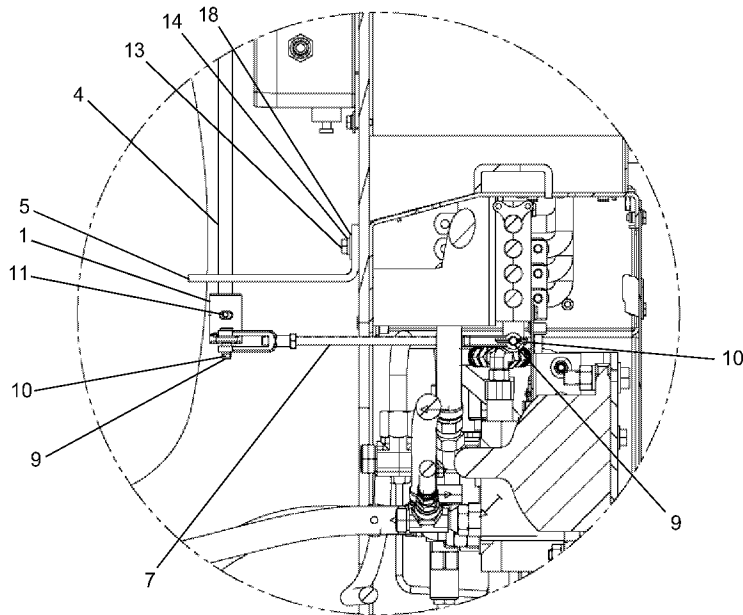
DATE: Revised 07-2009

MODEL: BT3870

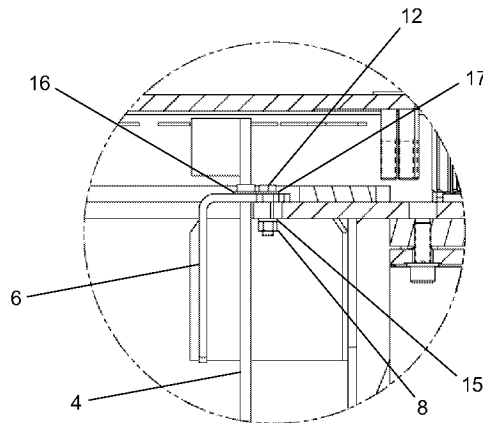
PAGE 12.5

GROUP

**12**



DETAIL B



DETAIL C

**SEE PAGE 12.5**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
1	100-30028	Assembly, Control Link .....	1	12	S01-500CB00-25	Screw, HHCS	
2	12169-16	Flex Trim 3/8" x 18" Long .....	3			0.50-13 X 2.00,ST Z GR5 .....	4
3	695-00185	Mainframe - Console Assembly .....	REF	13	SHF-312C750-25	Screw, HHCS FT	
4	719-00480	Flag Weld, Swing Stop .....	1			0.312-18 X 0.75, ST Z G5 .....	2
5	785-01678	Support Angle, Swing Stop .....	1	14	W07-312X000-20	Washer, LCK, MED	
6	789-06007	Arm, Collector Ring Stop .....	1			SPLT 0.3125, ST Z .....	2
7	806-00245	Control Link Assembly .....	1	15	W07-500X000-20	Washer, LCK, MED	
8	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5 .....	2			SPLT 0.50, ST Z .....	2
9	P01-312XA00-P0	Pin, Clevis 0.3125 X 1.00, STL .....	2	16	WAH-50NX000-Y2	Washer, FL	
10	P02-125X750-20	Pin, Cotter 0.125 X 0.75, ST Z .....	2			HRD A - NRW 0.50, ST YZ .....	1
11	P22-188XA50-GP	Pin, Spring SLTD 0.1875 X 1.50, ST .....	1	17	WAN-50NX000-20	Washer, FL	
						TYP A - NRW 0.50, ST Z .....	8
				18	WBR-31RX875-20	Washer, FL	
						TYPB - REG 0.3125, ST Z .....	2

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



**SWING STOP INSTALLATION**  
Motor Shift

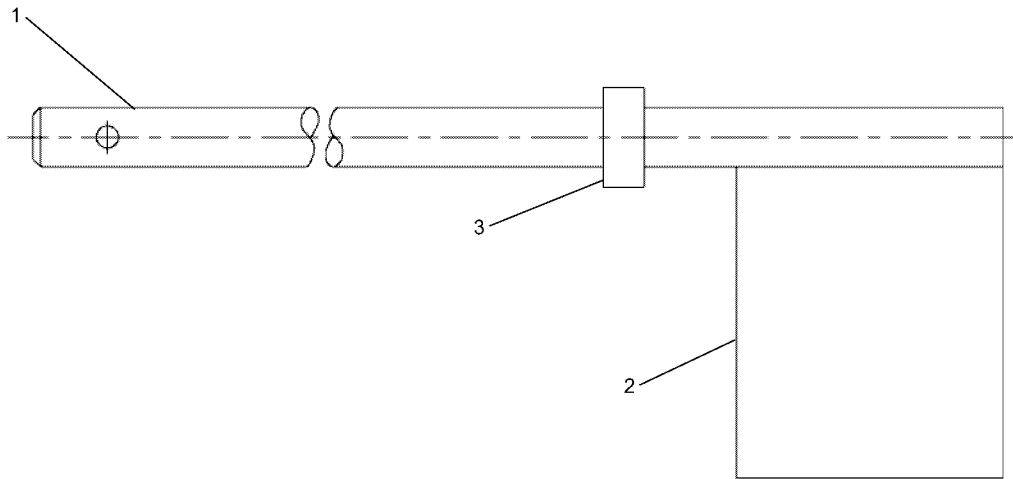
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**12**

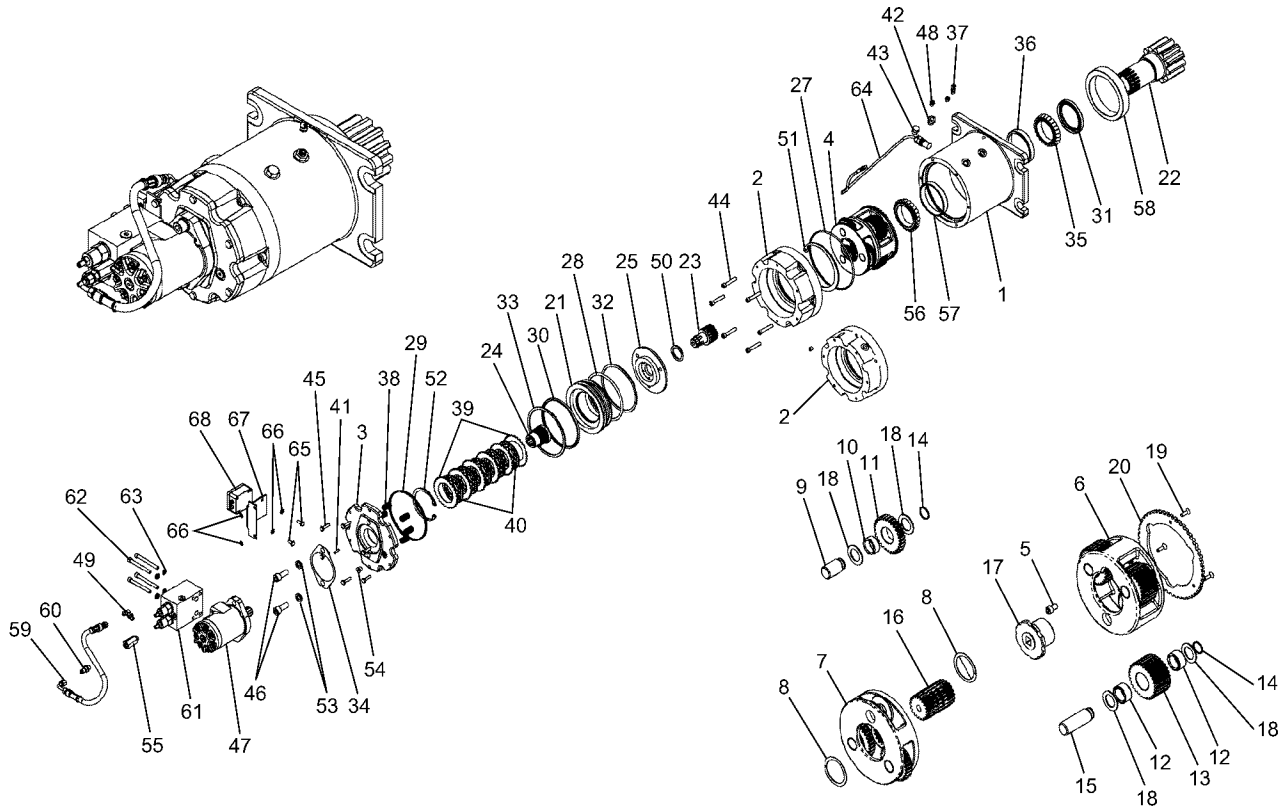


<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	719-00480	Swing Stop Flag Weld (Items 1-3)	
1	719-00481	Rod, Swing - Safety Stop.....	1
2	719-00322	Bar, Swing Stop .....	1
3	011-30025	Spacer, Pipe (000-00019).....	1

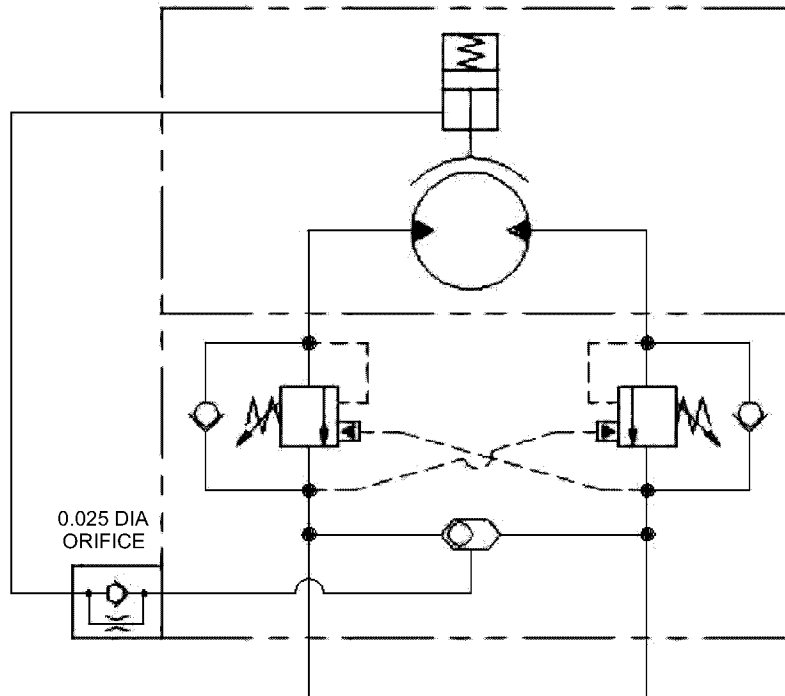
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	<b>SWING STOP INSTALLATION</b> Flag Weld	DATE: Revised 07-2009	<b>GROUP</b>  <b>12</b>
		MODEL: BT3870	
		PAGE 12.7	





SCHEMATIC



SEE PAGE 22.2

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



ROTATION GEARBOX  
ASSEMBLY

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

22

**SEE PAGE 22.1**

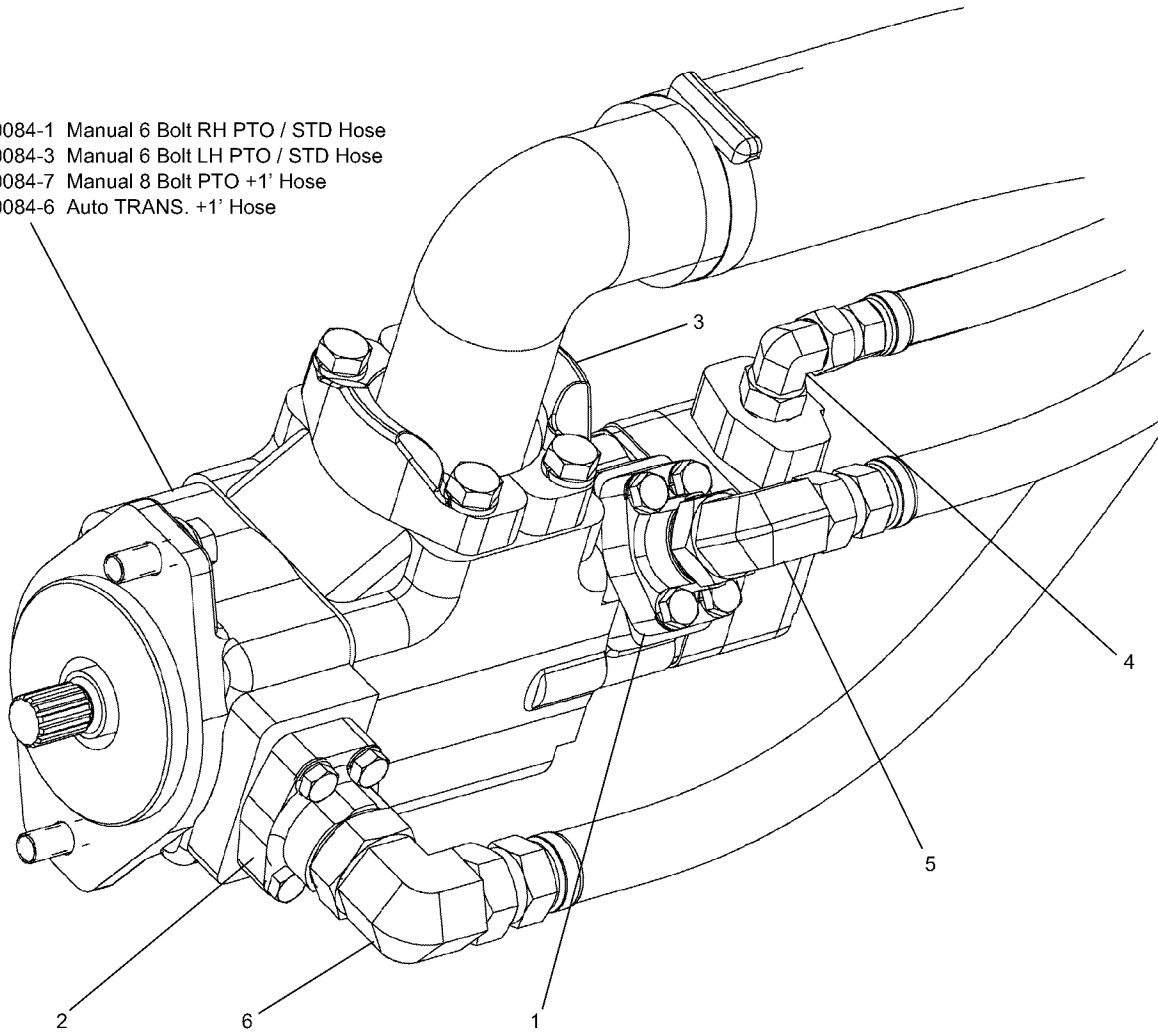
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	292-00049	<i>Gear Box Assembly, Turret Rotation (Items 1-70)</i>		36	901-00396	Cup, Bearing.....	1
				37	901-00365	Fitting, Grease Zerk.....	1
				38	901-00148	Spring, Green.....	6
1	901-00348	Housing, Gear, Swing.....	1	39	901-00149	Plate, Stator.....	6
2	901-00136	Housing, Brake.....	1	40	901-00150	Disc Friction.....	5
3	901-00137	Adapter Motor.....	1	41	901-00151	Pin, Roll.....	1
4	901-00350	Gear Set, Planetary.....	1	42	901-00276	Fitting, Adapter.....	1
5	901-00172	Bolt, Pinion, Locking.....	1	43	901-00277	Plug, O-Ring.....	1
6	901-00351	Carrier, Output.....	1	44	901-00159	Capscrew, Sockethead.....	6
7	901-00248	Carrier, Input.....	1	45	901-00160	Capscrew.....	6
8	901-00175	Ring,RET.....	2	46	901-00397	Capscrew, Socket Head.....	2
9	901-00176	Pin, Planet.....	3	47	530-20148	Motor, Hydraulic.....	1
10	901-00177	Bearing, Needle.....	3	48	901-00029	Breather.....	1
11	901-00249	Gear,Planet,Input.....	3	49	901-00106	Adpt.,90DEG.....	1
12	901-00179	Bearing, Needle.....	6	50	901-00165	Washer Thrust.....	1
13	901-00180	Gear, Secondary Planet.....	3	51	901-00167	Ring, Retaining.....	1
14	901-00182	Ring, Retaining.....	6	52	901-00168	Ring, Retaining.....	1
15	901-00183	Pin,Plane.....	3	53	901-00109	Lockwasher.....	2
16	901-00184	Gear, Sun, Output.....	1	54	901-00170	Plug, O-Ring.....	1
17	901-00185	Bolt,Pinion.....	1	55	552-00100	Check Valve.....	1
18	901-00250	Washer, Thrust.....	12	56	901-00192	Cone, Bearing.....	1
19	901-00352	Capscrew, HEX, Flat Head.....	3	57	901-00193	Cup, Bearing.....	1
20	901-00353	Plate, Target, Swing.....	1	58	901-00198	Ring, Eccentric.....	1
21	901-00139	Piston,Brake.....	1	59	901-00356	Hose, Assembly.....	1
22	901-00407	Shaft,Output,Pinion.....	1	60	901-00104	Adapter, Straight.....	1
23	901-00191	Gear, Sun.....	1	61	901-00357	Block, C.B. W/Valve.....	1
24	901-00142	Gear, Brake Driver.....	1	62	901-00358	Capscrew, Socket Head.....	4
25	901-00143	Plate, Thrust.....	1	63	901-00405	Lockwasher.....	4
26*	901-00354	Kit, Seal.....	1	64	901-00359	Sensor, Hall Effect.....	1
27	901-00074	O-Ring.....	1	65	901-00360	Capscrew.....	2
28	901-00154	O-Ring.....	1	66	901-00361	Washer, Shake Proof.....	4
29	901-00157	O-Ring.....	1	67	901-00362	Bracket, Conditioner W.A.D.....	1
30	901-00153	O-Ring.....	1	68	901-00363	Conditioner, W.A.D.....	1
31	901-00394	Seal, Oil.....	1	69*	901-00364	Cable Clamp.....	1
32	901-00155	Ring, Back Up.....	1	70*	269-00168	Motor Seal Kit.....	1
33	901-00152	Ring, Back Up.....	1				
34	901-00161	Gasket.....	1				
35	901-00395	Cone,Bearing.....	1				

\* ITEMS NOT SHOWN

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

	<b>ROTATION GEARBOX ASSEMBLY</b>	DATE: Revised 07-2009	<b>GROUP 22</b>
		MODEL: BT3870	
		PAGE 22.2	

- 7 521-00084-1 Manual 6 Bolt RH PTO / STD Hose
- 8 521-00084-3 Manual 6 Bolt LH PTO / STD Hose
- 9 521-00084-7 Manual 8 Bolt PTO +1' Hose
- 10 521-00084-6 Auto TRANS. +1' Hose



REF	PART NO.	DESCRIPTION	QTY
	521-00084	<i>Pump Installation (Items 1-10)</i>	
	521-00084-1	<i>Manual 6 Bolt RH PTO / STD Hose</i>	
	521-00084-3	<i>Manual 6 Bolt LH PTO / STD Hose</i>	
	521-00084-6	<i>Auto TRANS. +1' Hose</i>	
	521-00084-7	<i>Manual 8 Bolt PTO +1' Hose</i>	
1	505-01002	Split Flange Kit .75" .....	1
2	505-02002	Split Flange Kit 1.00" .....	1
3	505-06004	Split Flange Kit 2.50" .....	1
4	514-55011	90° Elbow M#8 OFS X M#8 ORB .....	1
5	514-67005	90° Elbow M#12 OFS X M#12 SF61 .....	1
6	514-59031	90° Elbow M#16 OFS X M#16 SF61 .....	1
7	520-00053-1	Pump, Triple Eaton #DCC-LH .....	1
8	520-00053-2	Pump, Triple Eaton #BCC-LH .....	1
9	520-00053-3	Pump, Triple Eaton #ACD-LH .....	1
10	520-00053-4	Pump, Triple Eaton #CCC-RH .....	1

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



## HYDRAULIC PUMP INSTALLATION

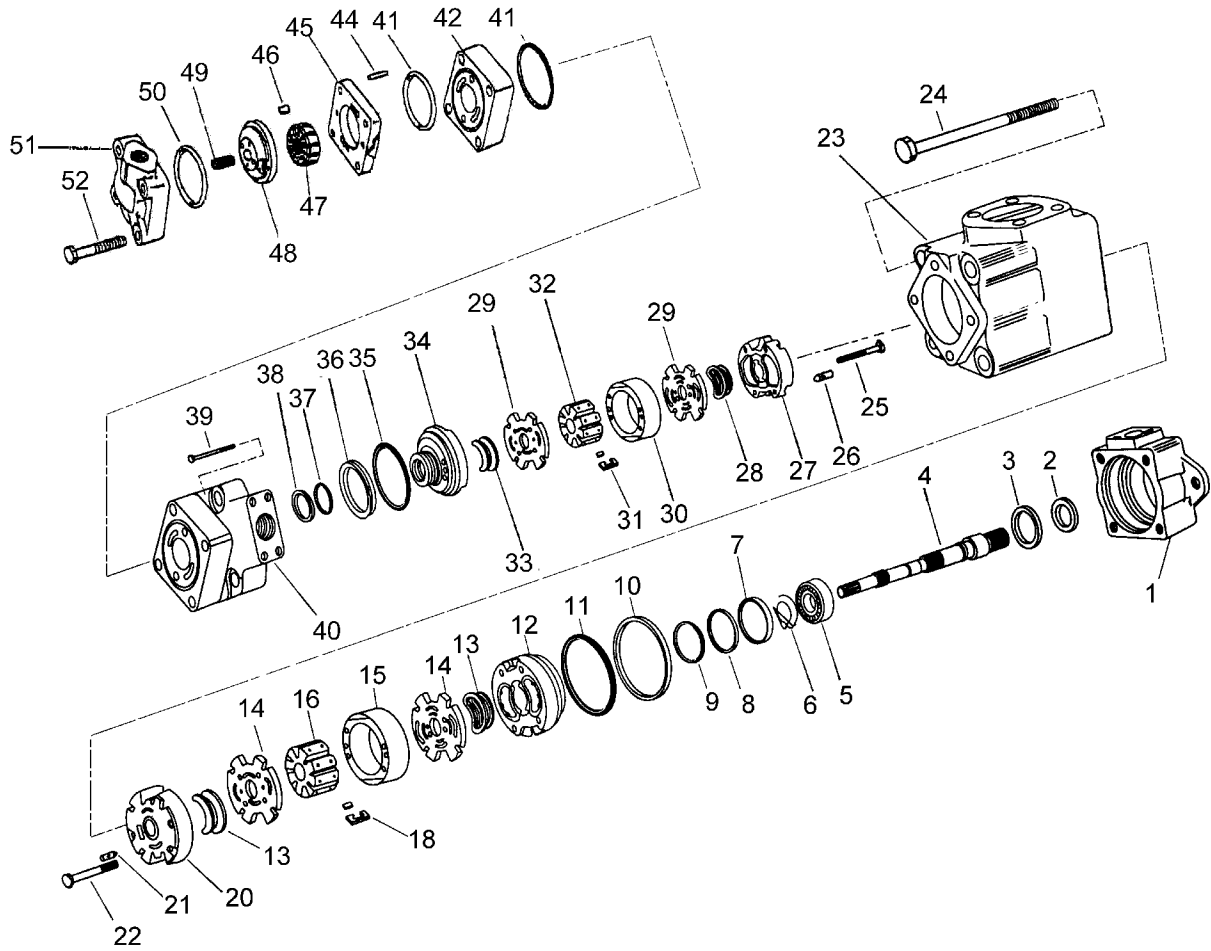
DATE: Revised 07-2009

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GROUP


**24**



Hydraulic Pump Assembly (Vickers)

SEE PAGE 24.3

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

	<p><b>HYDRAULIC PUMP ASSEMBLY</b> (Vickers)</p>	DATE: Revised 07-2009	<p>GROUP <b>24</b></p>
		MODEL: BT3870	
		PAGE 24.2	

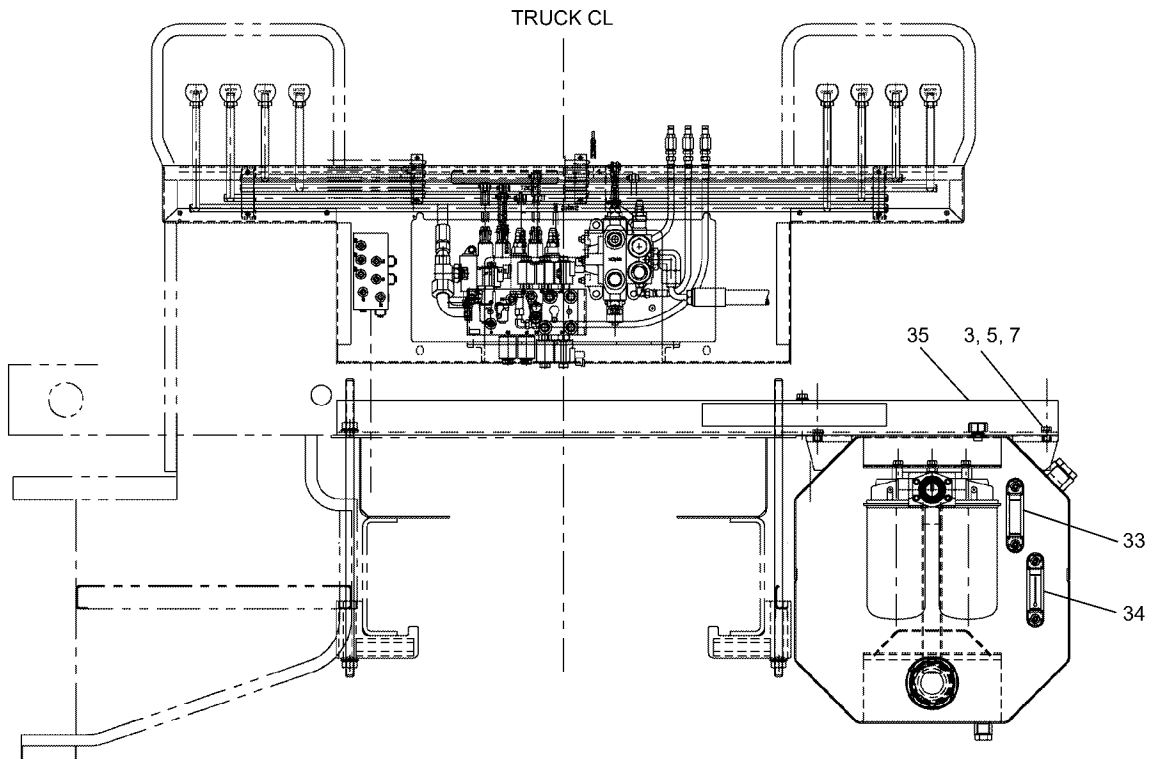
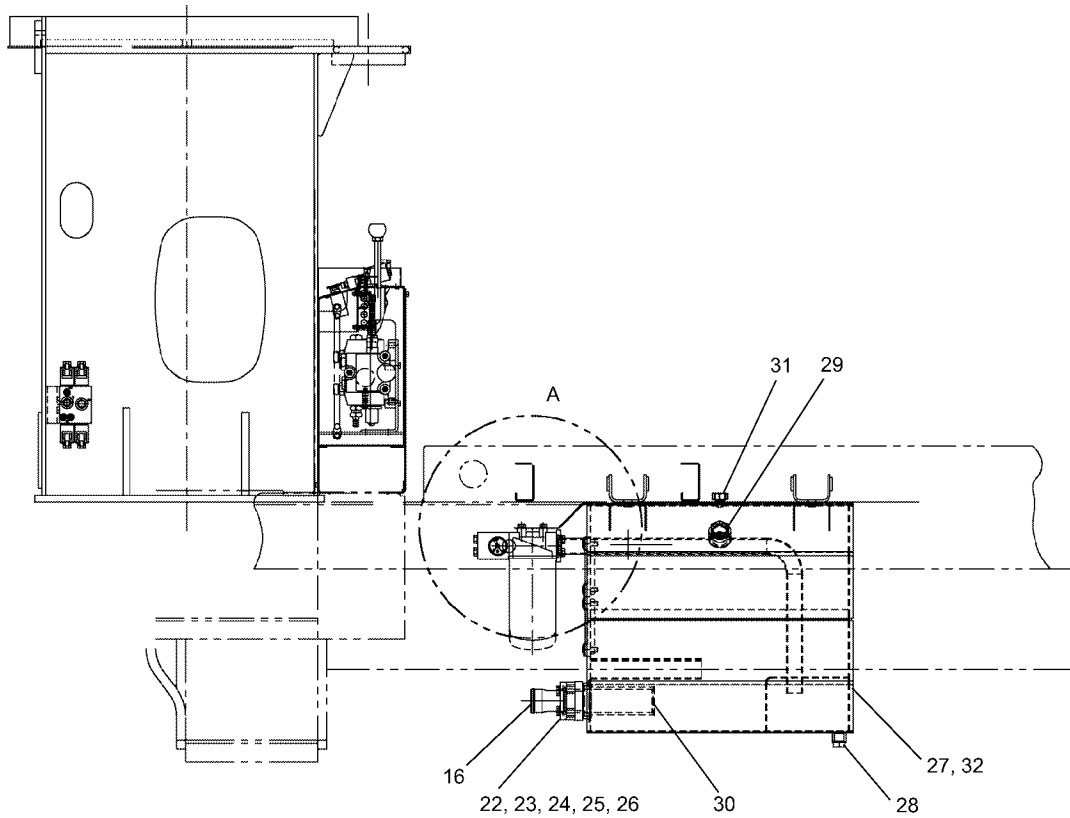
**SEE PAGE 24.2**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
*	520-00053	Hydraulic Pump Assembly (Vickers) .....	Ref
1	935-00119	Body Kit .....	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	NOT USED		
18	935-00056	Vane Kit.....	1
19	NOT USED		
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 (Special For R-O).....	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	NOT USED		
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
50	935-00093	O-Ring .....	1
51	935-00100	V10 Cover Option.....	1
52	935-00088	Bolt .....	1
53*	935-00087	Gallon Swing Section .....	5
54*	935-00098	Gallon Mid-Section .....	11
55*	935-00080	Gallon Main Section .....	21
56*	935-00091	Pump Seal Kit.....	

\*ITEMS NOT SHOWN

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

	<b>HYDRAULIC PUMP ASSEMBLY</b> (Vickers)	DATE: Revised 07-2009	<b>GROUP</b> <b>24</b>
		MODEL: BT3870	
		PAGE 24.3	



**SEE PAGE 25.2**

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



**HYDRAULIC RESERVOIR  
INSTALLATION**

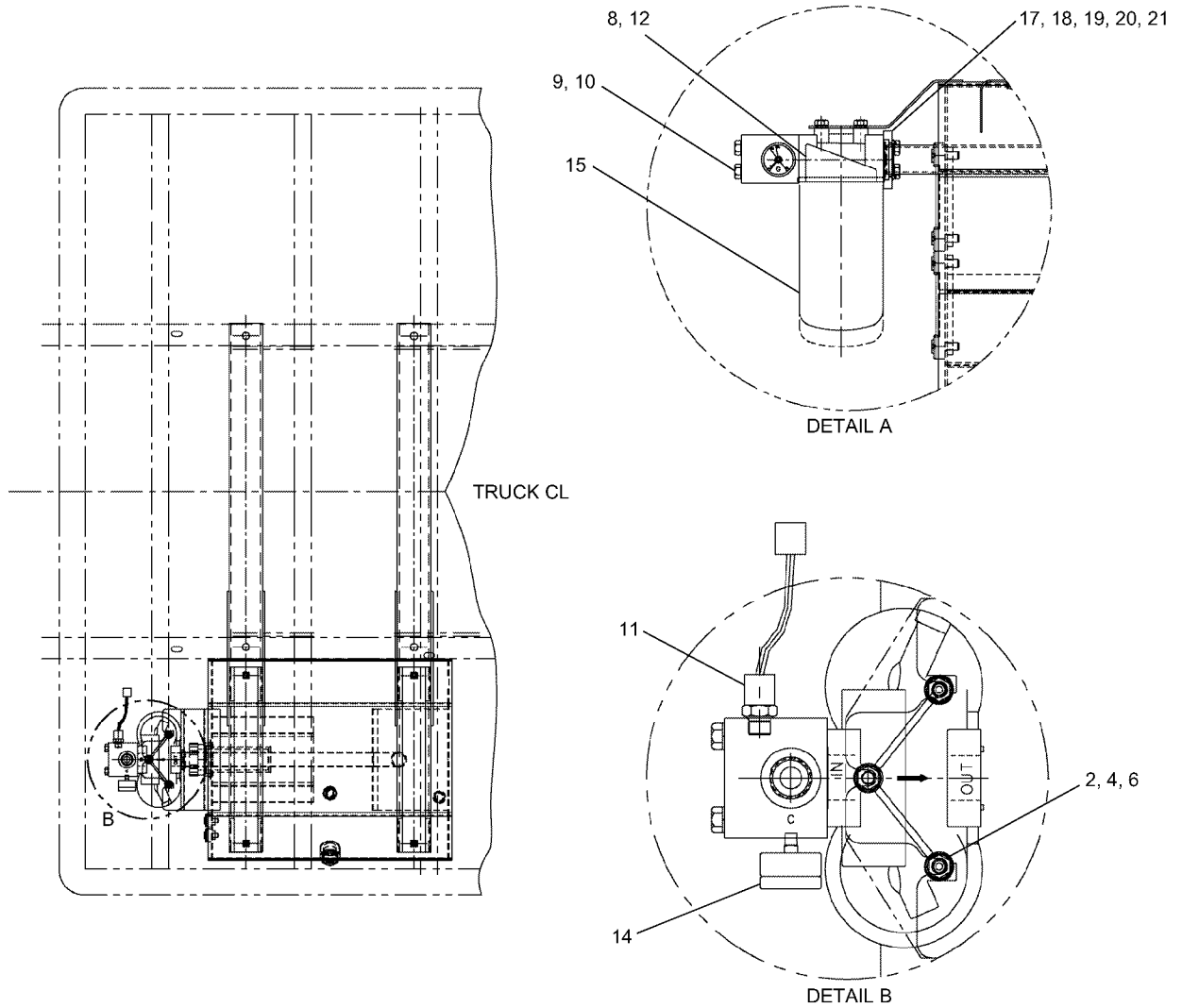
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**25**



**SEE PAGE 25.1**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	876-00071	BT 70 GAL Tank Installation (Items 1 - 35)		17	505-03003	Kit, Split Flange 1-1/2 W/ HDWR.....	1
1*	209-40010	HYD Oil, Tex Rando HD32.....	70	18	220-04005	HHCS, 1/2-13 NC X 1.50 GR5 Zinc.....	4
2	220-03023-9	HHCS, 7/16-14 UNC X 0.75 GR5 ZN.....	3	19	222-14003	Lockwasher 1/2 MED PLTD .....	4
3	220-04065-13	HHCS, 1/2-13 UNC X 1.00 GR5 ZN.....	4	20	260-30004	O-Ring Parker #224.....	1
4	222-00025-9	7/16" Flatwasher ZN.....	3	21	505-03004	Split Flange Half, 1 1/2" .....	2
5	222-00025-10	1/2" Flatwasher ZN.....	4	22	505-05002	Kit, 2" Code 61 Split Flange.....	1
6	222-00028-12	Lockwasher 7/16 MED PLTD .....	3	23	220-40005	HHCS, 1/2-13 NC X 1.50 GR5 Zinc.....	4
7	222-00028-13	Lockwasher 1/2 MED PLTD .....	4	24	222-14003	Lockwasher 1/2 MED PLTD .....	4
8	501-02015	Return Line Manifold/Filter Assembly.....	1	25	260-40005	O-Ring .....	1
9	220-40065-61	HHCS, 1/2-13 NC X 4.00 GR5 Zinc .....	2	26	505-05003	Split Flange Half, 2" .....	2
10	222-00028-13	Lockwasher 1/2 MED PLTD .....	2	27	875-90348	Assy Hydraulic Reservoir 70 GAL .....	1
11	400-04411	Switch, Temperature 210F Raising .....	1	28	517-30004	Plug, SOC HD 3/4 ORB.....	1
12	501-02013	Filter Head.....	1	29	517-30015	Plug, Hollow HEX - 20 ORB .....	1
13*	519-90141	Manifold, Return .....	1	30	875-90360	Strainer, Suction .....	1
14	935-00113	Gauge, Pressure .....	1	31	875-90362	Breather Cap, 1/2 NPT .....	1
15	501-02018	Filter Element .....	4	32	875-90367	Reservoir Weldment .....	1
16	504-03516	Tube, Suction Hose.....	1	33	875-90395	Sight Gauge, Oil Level.....	1
				34	875-90396	Sight Gauge, Oil Level W/Temp .....	1
				35	875-90370	U-Bracket, Weld Tank Mounting.....	2

\* ITEM NOT SHOWN

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



**HYDRAULIC RESERVOIR  
INSTALLATION**

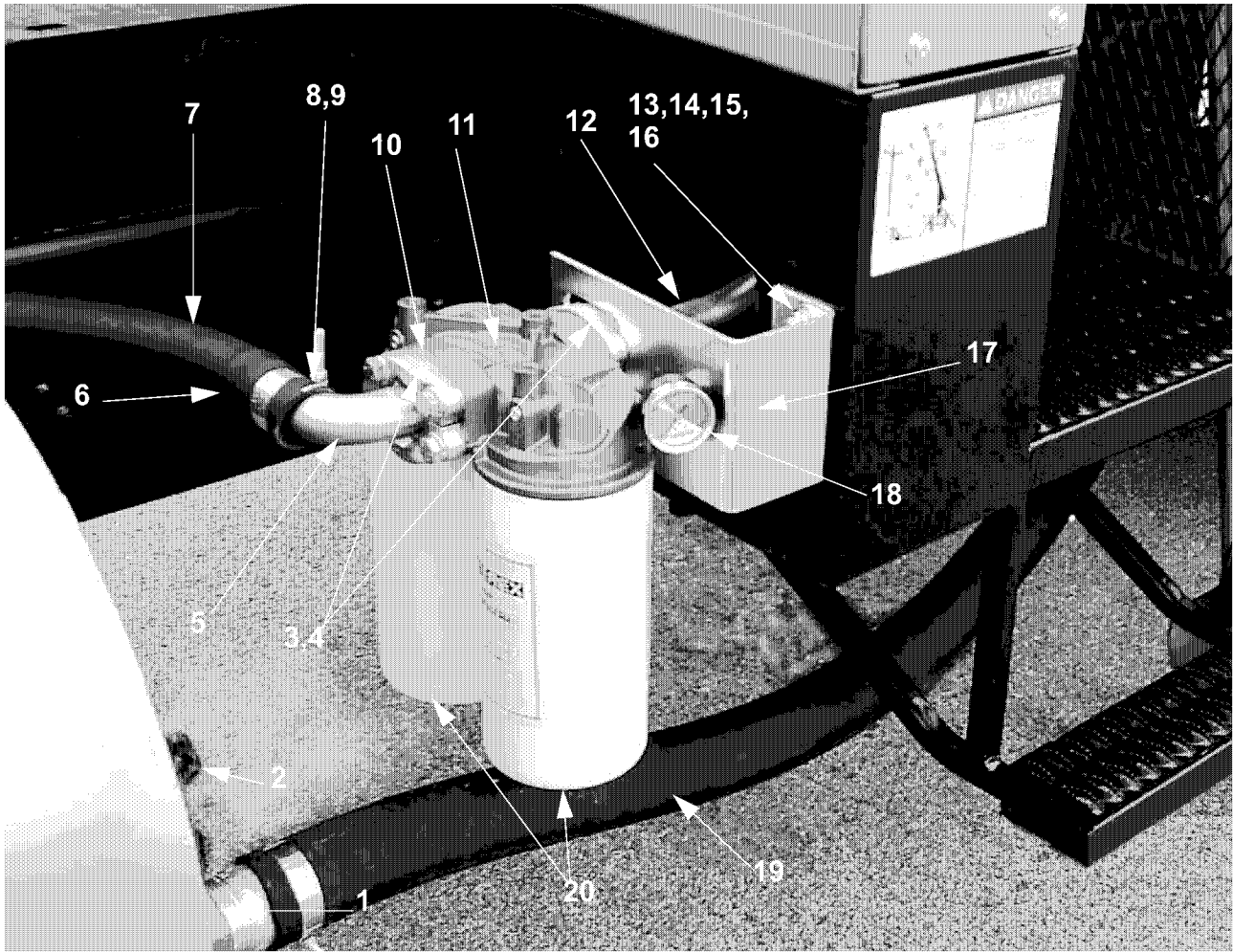
DATE: Revised 07-2009

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GROUP

**25**



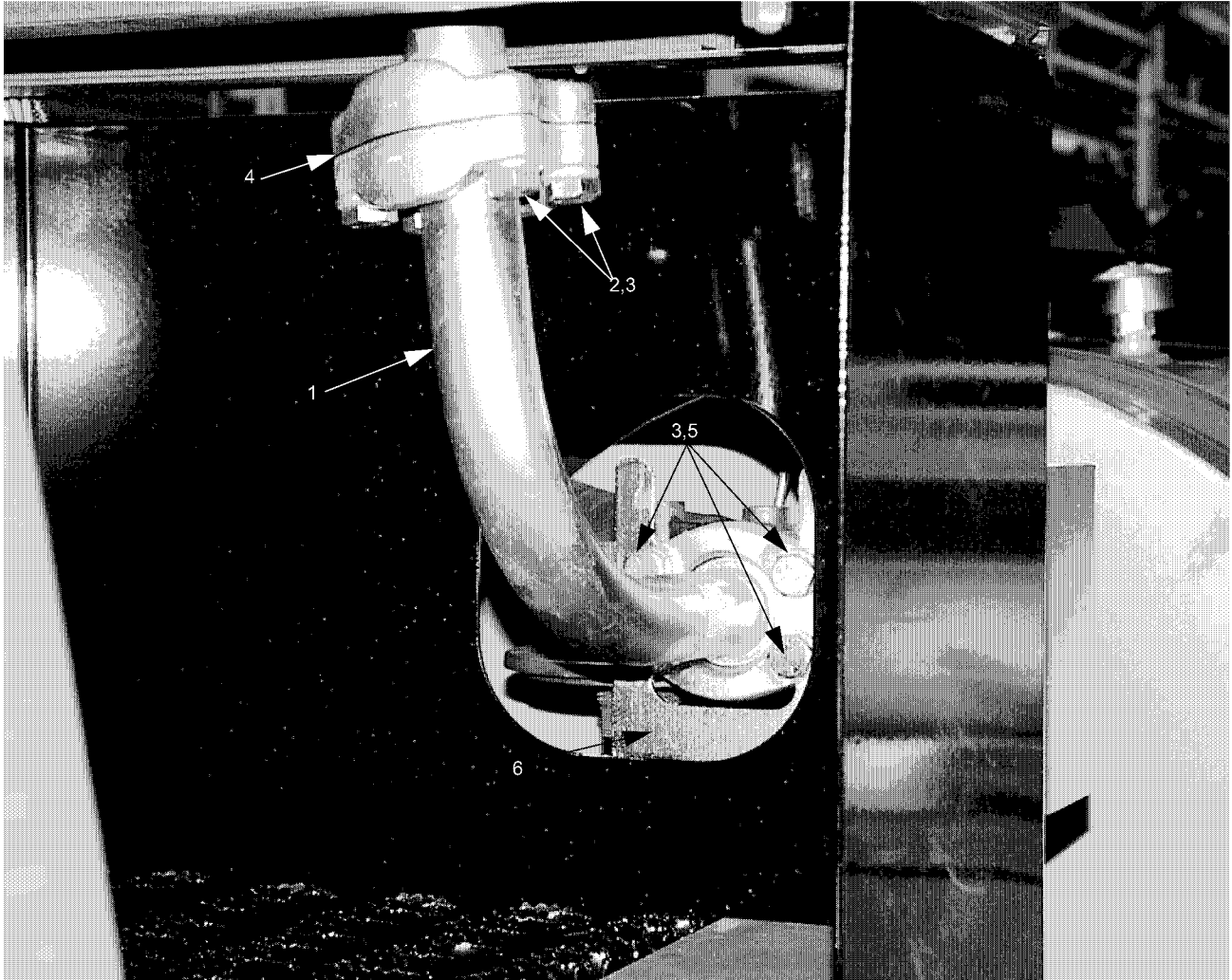
REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
1	504-00902	Coupling, 2 1/2" Hose.....	1	11	501-02013	Filter Head .....	1
2	570-90055	Gate Valve, 2 1/2" .....	1	12	Pg 25.4	Tube, Return Assembly .....	1
3	505-03001	Flange, 1 1/2 .....	2	13	220-01004	Bolt, 5/16NC x 3/4" Long .....	2
4	505-03003	Flange, 1 1/2 .....	2	14	222-11002	Washer, Lock 5/16 PLTD .....	2
5	504-03407	Hose, End, 90 Deg. ....	1	15	222-01001	Washer, Flat 5/16 PLTD .....	2
6	201-00146	Clamp, Hose 1 1/2.....	2	16	221-01001	Nut, Hex, 5/16NC PLTD.....	2
7	503-03001	Hose 1 1/2 I.D .....	1	17	770-02621	Bracket, Hydraulic Filter Mounting .....	1
8	222-14003	Washer, Lock 1/2 PLTD .....	12	18	935-00113	Filter, By-Pass Gauge .....	1
9	220-04005	Bolt, Hex Head 1/2NC x 1 1/2" Long.....	8	19	503-06008	2 1/2" Hose, Pump Inlet .....	1
10*	260-30004	O-Ring.....	3	20	501-02014	Filter Cartridge .....	2
				*	570-09005	Nipple, 2 1/2" Close .....	1

\*ITEMS NOT SHOWN

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

	<b>HYDRAULIC RESERVOIR</b> Filter Installation	DATE: Revised 07-2009	<b>GROUP</b>  <b>25</b>
		MODEL: BT3870	
		PAGE 25.3	



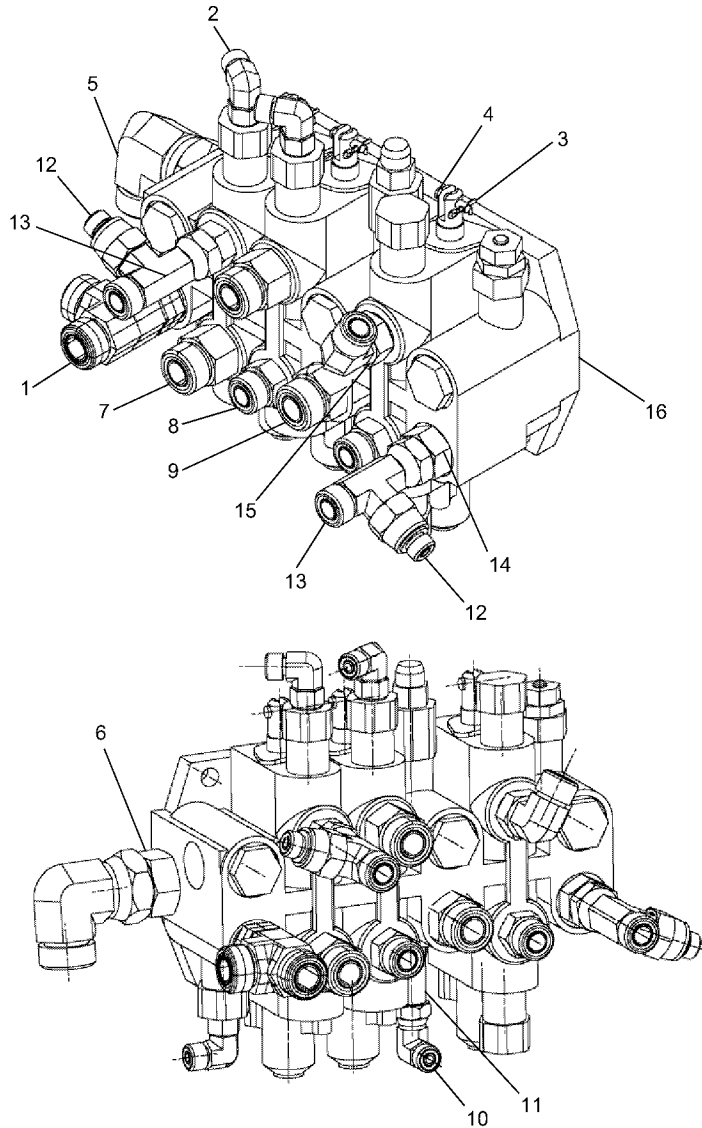


REF	PART NO.	DESCRIPTION	QTY
1	510-90279	Tube, Return Ass.(#12 Pg 25.2).....	1
2	220-04001	Bolt, Hex Head, 1/2NC x 2" Long .....	4
3	222-14003	Washer, Lock 1/2 PLTD .....	12
4*	260-30004	O-Ring .....	3
5	220-04005	Bolt, Hex Head 1/2NC x 1 1/2" Long .....	8
6	Pg 25.3	Bracket, Hyd. Filter MNT .....	1

\*ITEMS NOT SHOWN

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

	<b>HYDRAULIC RESERVOIR</b> Piping	DATE: Revised 07-2009	<b>GROUP</b>  <b>25</b>
		MODEL: BT3870	
		PAGE 25.4	



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01826	Valve Assembly (Items 1-16)	
1	516-86004	Tee, SW Run 2 X M#10 OFS X F#10 .....	1
2	514-52003	Elbow 90 STD-M#4 OFS .....	3
3	OBS-224-01001	OBS-Pin, COTR 0.09X0.5 Z (1207-3) .....	3
4	870-00044	OBS-Pin, Clevis 0.19X0.75 LG .....	3
5	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
6	513-70023	STR CONN M#12 OFS X M#12 ORB .....	1
7	513-60012	CONN, -10 OFS X -8 ORB(A7S) .....	2
8	513-50023	STR CONN M#8 OFS X M#8 ORB .....	3
9	513-60008	CONN M#10 OFS X M#10 ORB .....	1
10	514-62002	Elbow 90 M0.25OFS X F0.25OFS SW .....	1
11	513-30003	STR CONN L M#4 OFS X M#4 ORB .....	1
12	519-50012	Reducer F#8 OFS X M#4 OFS .....	2
13	516-85004	Tee 2X M#8 OFS X F#8 OFS .....	2
14	513-50027	STR CONN M#8 OFS X M#10 ORB .....	1
15	514-55011	90 ELBOW M#8 OFS X M#8 ORB .....	1
16	550-00423	Valve, Main Boom .....	1

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



**MAIN VALVE ASSEMBLY**  
Standard Winch

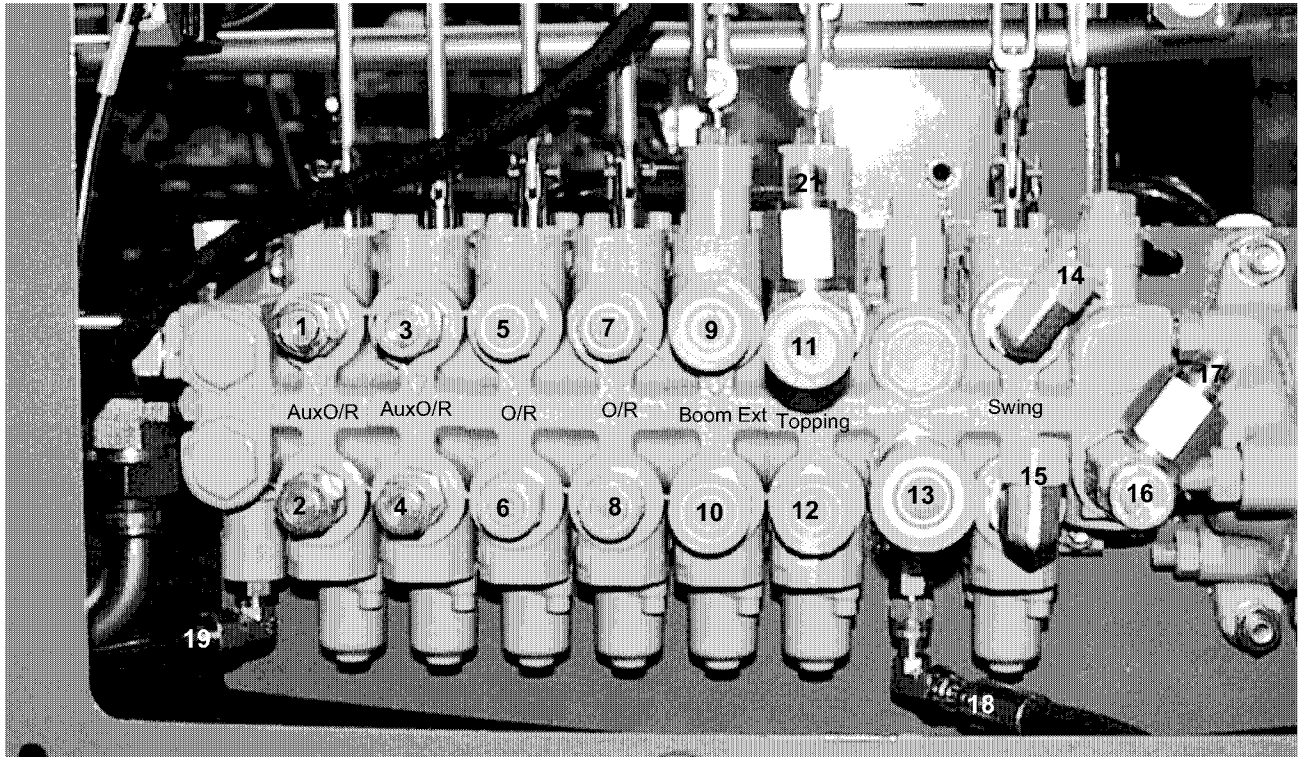
DATE: Revised 07-2009

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GROUP

**25**



**NOTE- HOSES HAVE BEEN OMITTED FOR CLARITY,  
NUMBERS INDICATE HOSE CONNECTION PLACEMENT.**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	502-20765	Hose, Aux Outrigger (S.S. Extend).....	2	11	502-35068	Hose, Hoist Cylinder (Retract) .....	2
2	502-20764	Hose, Aux Outrigger (S.S. Retract) .....	2	12	502-35068	Hose, Hoist Cylinder (Extend) .....	1
3	502-20764	Hose, Aux Outrigger (C.S. Extend) .....	1	13	502-40929	Hose, Pump (Boom Section) .....	1
4	502-20765	Hose, Aux Outrigger (C.S. Retract) .....	2	14	502-30557	Hose, Swing Motor (CCW).....	2
5	502-30534	Hose, Main Outriggers (C.S. Extend).....	4	15	502-30557	Hose, Swing Motor (CW) .....	1
6	502-30534	Hose, Main Outriggers (C.S. Retract) .....	1	16	502-30749	Hose, Pump (Swing Section) .....	1
7	502-30534	Hose, Main Outriggers (S.S. Extend) .....	1	17	502-11308	Hose, Test Port (Swing Pump) .....	1
8	502-30534	Hose, Main Outriggers (S.S. Retract) .....	1	18	502-10973	Hose, Test Port (Boom Extension) .....	1
9	502-35069	Hose, Boom Cylinder (Extend).....	2	19	510-20457	Tube Assembly, Unload Valve Supply .....	1
10	502-35069	Hose, Boom Cylinder (Retract) .....	1	21	502-11225	Hose Greer Base .....	1

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



**MAIN VALVE PIPING**  
Non-Continuous Rotation

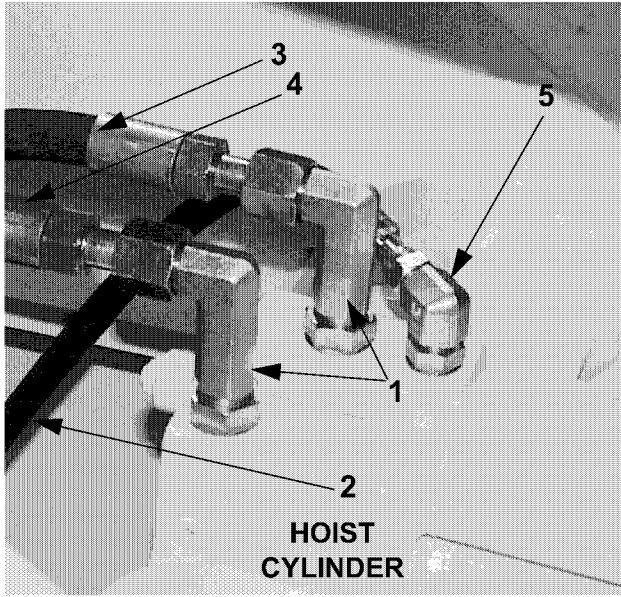
DATE: Revised 07-2009

MODEL: BT3870

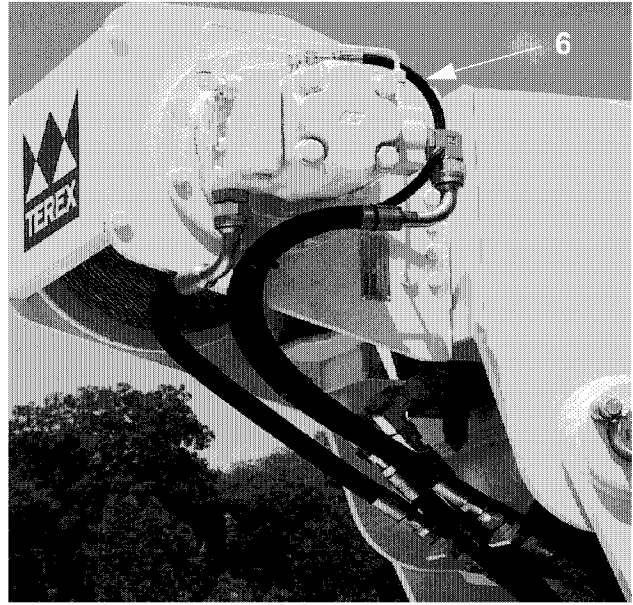
PAGE 25.6

GROUP

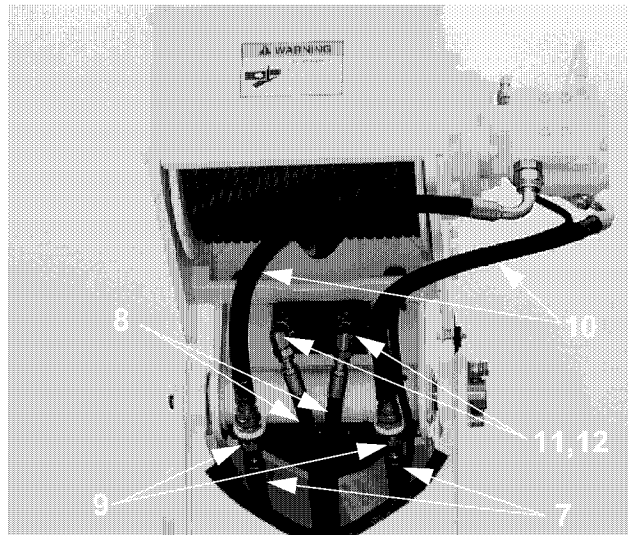
**25**



**HOIST  
CYLINDER**



REF	PART NO.	DESCRIPTION	QTY
1	515-06003	45° Elbow #10 OFS x #8 ORB .....	2
2	502-11225	Hose, GREER Base / Case Drain, Priority 1	
3	Pg 25.5	Hose, Hoist Cylinder Extend .....	2
4		Hose, Hoist Cylinder Retract	
5	514-52005	Elbow 90 .....	1
6	502-11309	Hose, Case Drain, Winch Motor.....	1



REF	PART NO.	DESCRIPTION	QTY
7	Pg 25.9	Hose, Winch .....	2
8	Pg 25.5	Hose, Boom Extension .....	2
9	518-60007	Bulkhead Union Fitting.....	2
10	502-40908	Hose, Winch, Upper.....	2
11	514-67004	90° Elbow, #12.....	2
12	515-07002	45° Elbow, #12.....	2

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



**HYDRAULIC PIPING**  
Non-Continuous Rotation

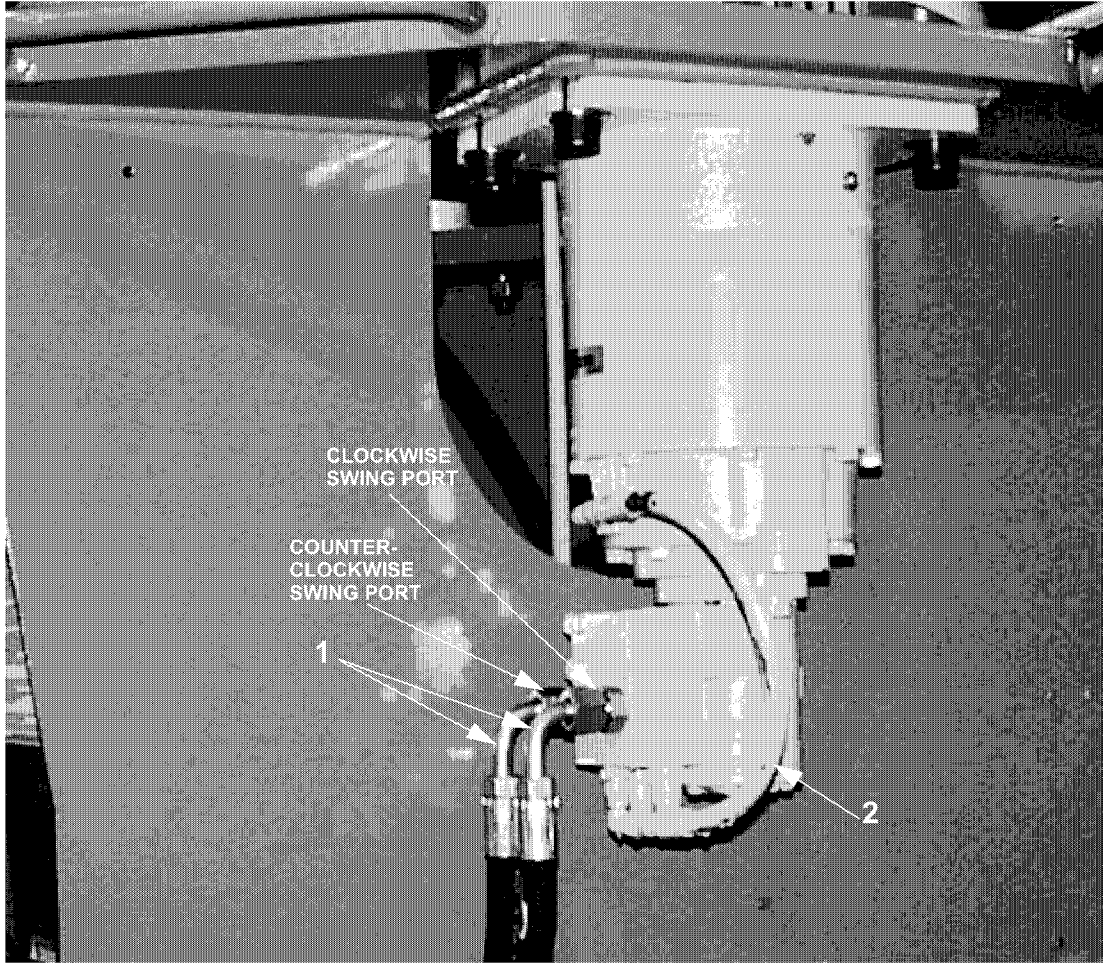
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

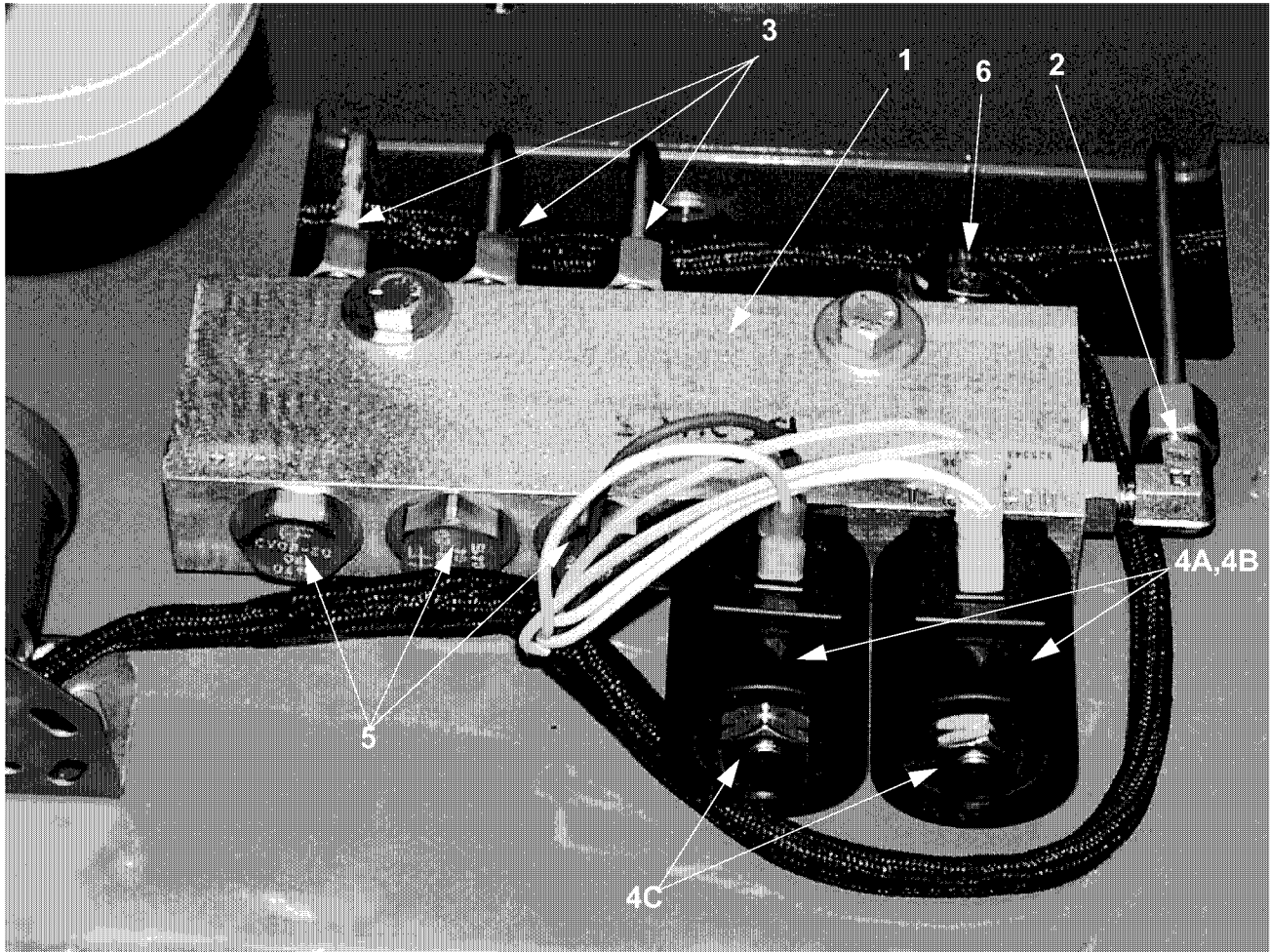
**25**



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	Pg 25.5	Hose assembly, Swing.....	2
2	Pg 22.2	Hose Assembly, Brake Release .....	1

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

	<b>HYDRAULIC PIPING</b> Swing	DATE: Revised 07-2009	<b>GROUP</b>  <b>25</b>
		MODEL: BT3870	
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REF	PART NO.	DESCRIPTION	QTY
	500-01397	Unloader Valve Assembly W/Fittings (Items 1 - 6)	
1	551-10136	Manifold, Unloader .....	1
2	514-52003	Elbow, 90 Deg., 4 OFS x 4 ORB .....	1
3	513-20017	Connector, 4 OFS x 4 ORB .....	3
4A	394-00029	Solenoid .....	2
4B	394-00026	Solenoid Coil .....	2
4C	394-00003	Solenoid Coil Nut .....	2
5	394-00028	Check Valve .....	3
6	502-10999	Hose Assembly, Unloader Valve Return ...	1

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



## UNLOADER VALVE ASSEMBLY

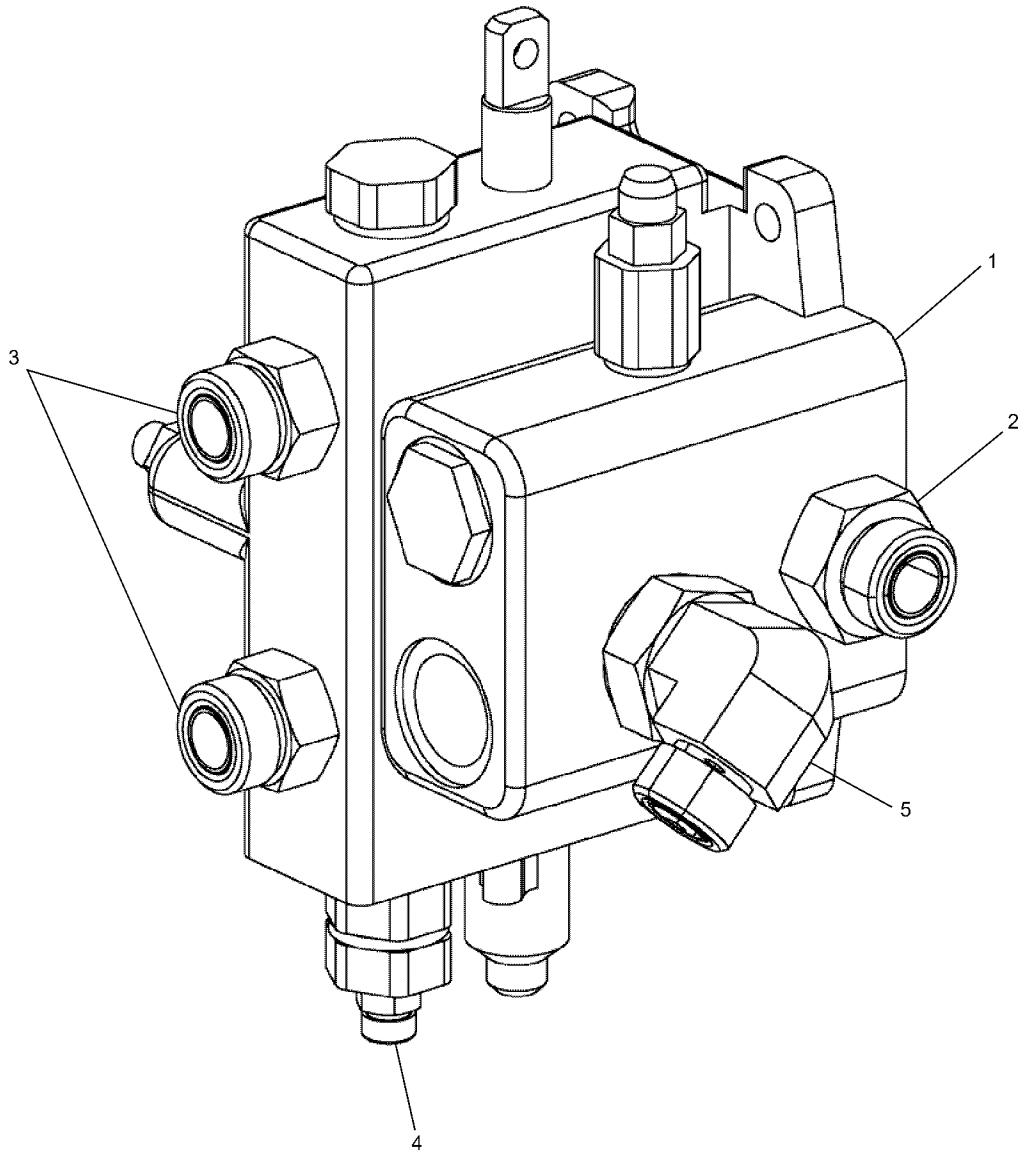
DATE: Revised 07-2009

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GROUP

**25**



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01827	Valve Sub Assembly, Winch (Items 1-5)	
1	550-00420	Valve, Winch Control.....	1
2	513-70026	CONN 12-16 .....	1
3	513-70023	STR CONN M#12 OFS X M#12 ORB.....	2
4	513-20017	STR CONN M#4 OFS X M#4 ORB.....	1
5	514-59023	Elbow 90DEG, 12-16 .....	1

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



**WINCH VALVE ASSEMBLY**

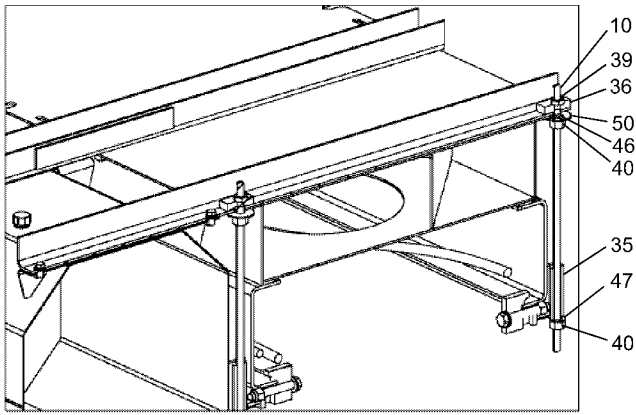
DATE: Revised 07-2009

MODEL: BT3870

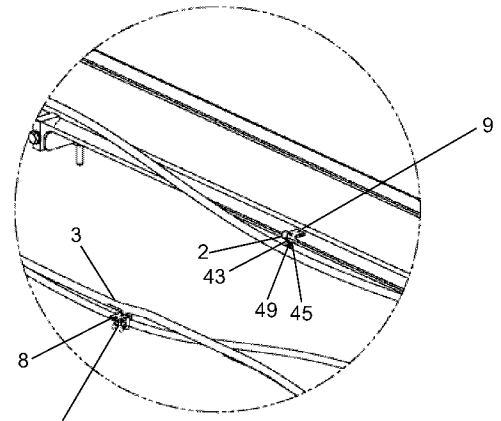
PAGE 25.10

**GROUP**

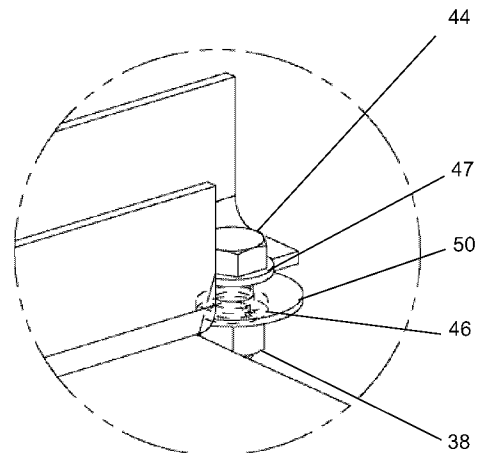
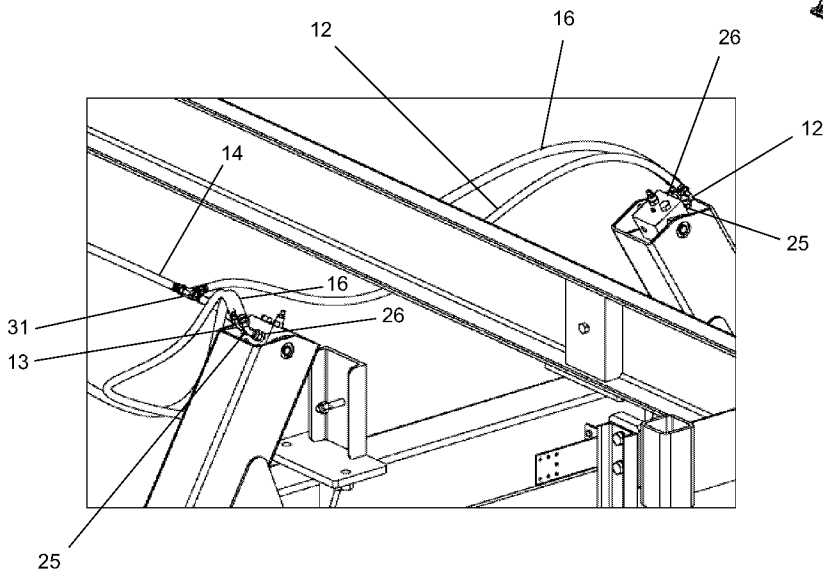
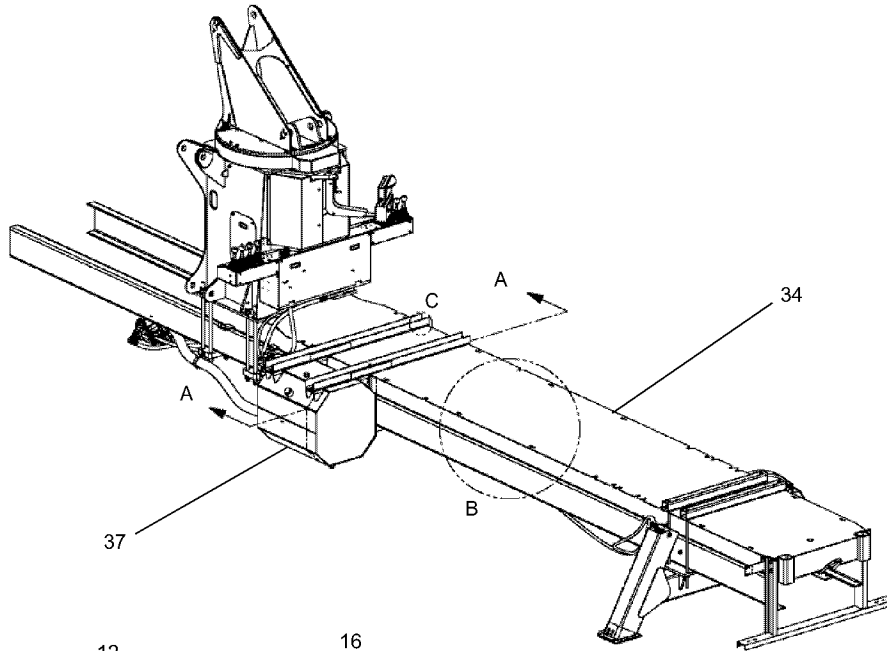
**25**



VIEW A



DETAIL B



DETAIL C

**SEE PAGE 25.14**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

DATE: Revised 07-2009

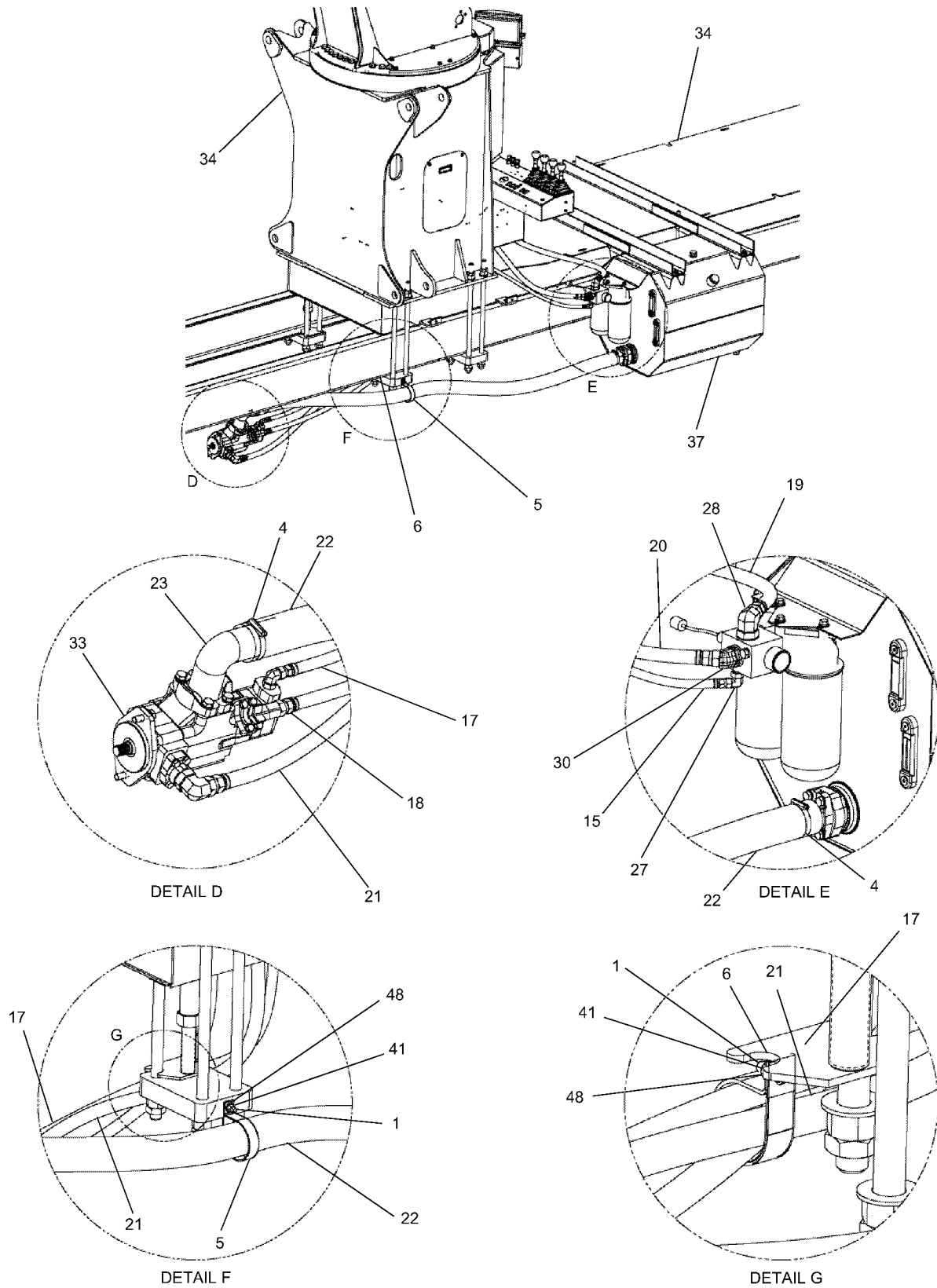
MODEL: BT3870

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GROUP

**25**





**SEE PAGE 25.14**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

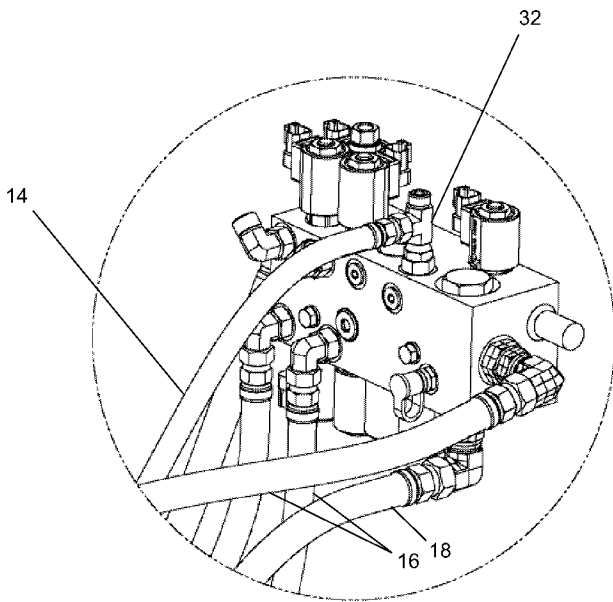
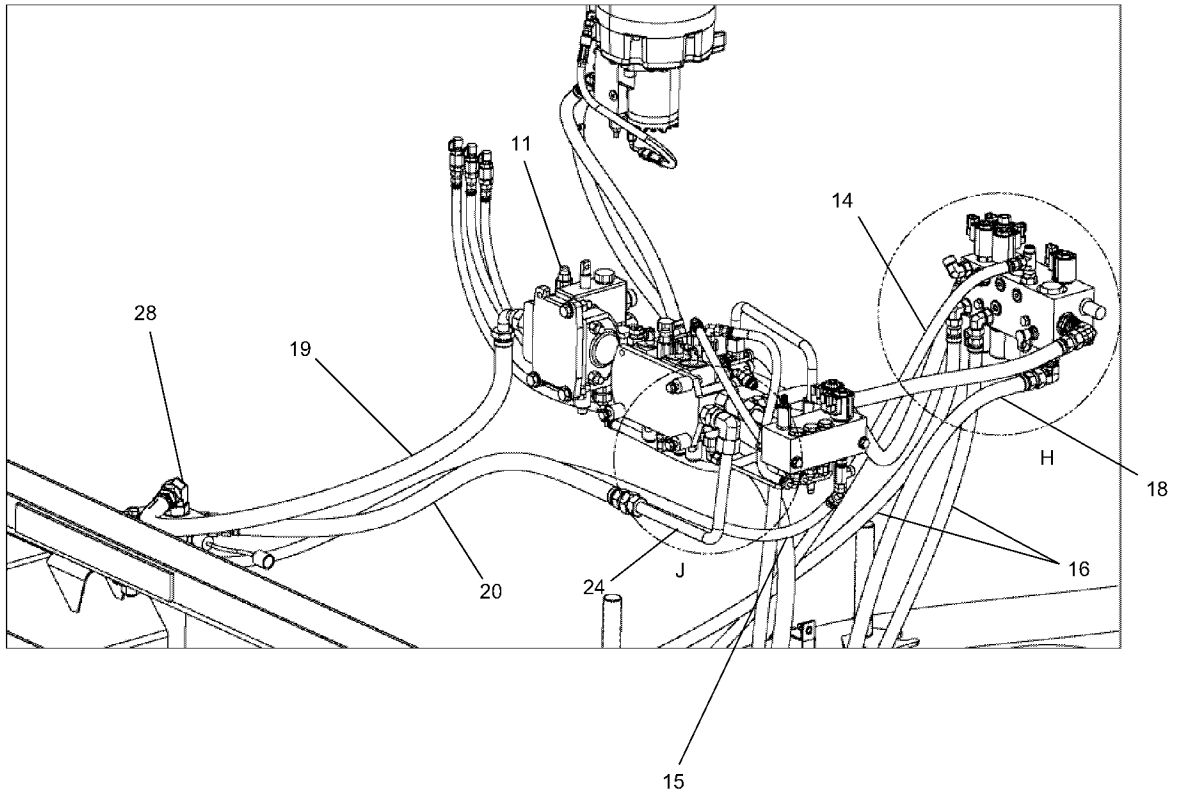
DATE: Revised 07-2009

MODEL: BT3870

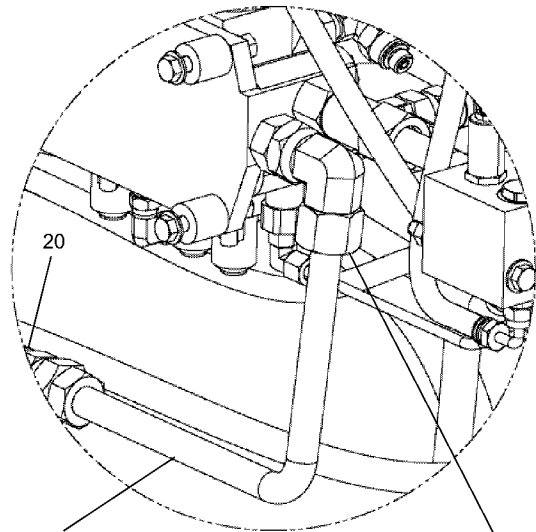
PAGE 25.12

GROUP

**25**



DETAIL H



DETAIL J

**SEE PAGE 25.14**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

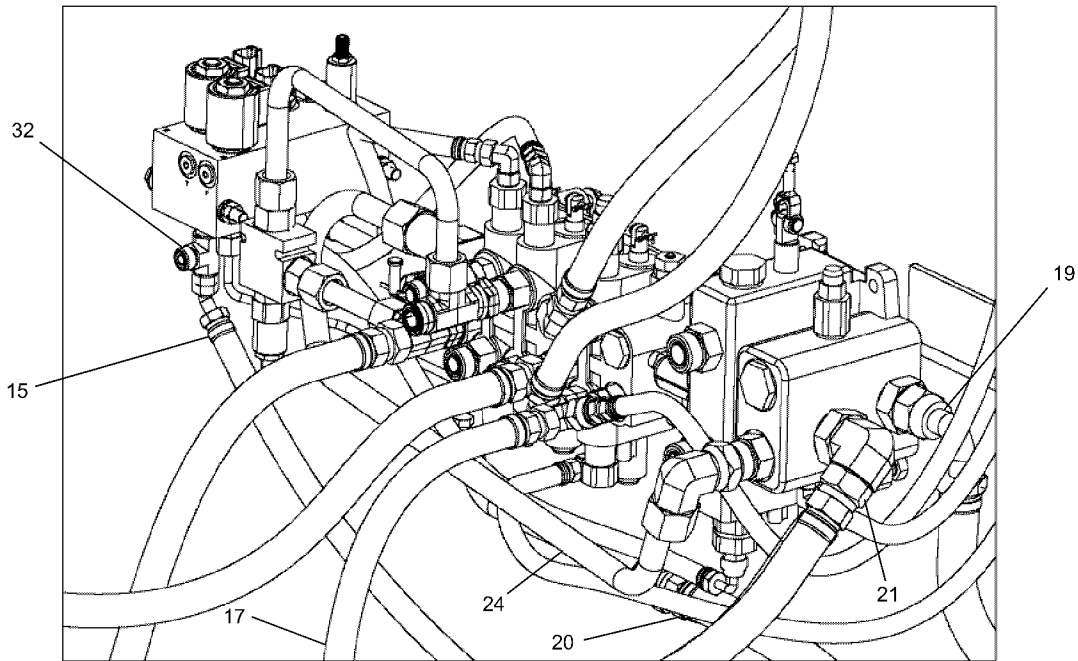
DATE: Revised 07-2009

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GROUP

**25**



**SEE PAGES 25.11, 25.12 & 25.13**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	500-01838-01	<i>Hydraulic Installation, Subframe - MainFrame (Items 1-49)</i>					
1	12196-03	Weld Stud, FT 0.375-16 X 1.00	3	29	514-66004	Elbow 90 M#10 OFS X F#10 OFS	1
2	201-00050	Clamp Block, Single	AR	30	515-07003	Fitting, 45 DEG, FGFF-6802-12-16	1
3	201-00193	Clamp Block, Double	AR	31	516-44002	Tee CONN 3 X M#6 OFS	1
4	201-00248	Hose Clamp, T Bolt	2	32	516-84003	Tee, Run 2 X M#6 OFS X F#6 OFS	2
5	201-00257	Clamp, 3.50 DIA	1	33	521-00084	Pump Options	REF
6	201-00258	Clamp, 2.50 DIA	1	34	695-10018	Subframe-Mainframe Assembly	REF
7	209-00804	Hose Protector (HP8-B)	1	35	701-00768	Mid-Mount TieDown Assembly	2
8	209-00879	Frame Clip Caddy, Double	AR	36	789-05852	Tap Block	2
9	209-00880	Frame Clip Caddy, Single	AR	37	876-00071	Hydraulic Reservoir Installation	1
10	220-07056	Tie Rod	2	38	N04-750C000-Y8	Nut, HEX, 0.75-10, ST YZ GR8	2
11	500-01837-01	Hydraulic Installation, Mainframe-Console	1	39	N05-750F000-Y8	Nut, HEX Jam 0.75-16, ST YZ GR8	2
12	502-21016	Hose, AUX Outrigger SS RET	1	40	N12-750F000-2A	Nut, HEX HVY 0.75-16, ST ZN GRA	4
13	502-21017	Hose, AUX Outrigger CS RET	1	41	NYL-375C000-25	Nut, HEX NYL-INS 0.375-16, ST Z G5	2
14	502-21018	Hose, Front Outrigger	1	42	SAE520110-12	Nut, HEX, Tubenut 12	REF
15	502-21025	Hose, LMI Return	1	43	SHF-250C750-25	Screw, HHCS FT 0.25-20X0.75, ST Z G5	AR
16	502-30770	Hose, AUX Outrigger Extend	2	44	SHF-750CA75-Y8	Screw, HHCS FT 0.75-10X1.75, STYZ G8	2
17	502-30782	Hose, Pump To Main Valve	1	45	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z	AR
18	502-35089	Hose, Pump-Or Valve	1	46	W07-750X000-20	Washer, LCK, MED SPLT 0.75, ST Z	4
19	502-41017	Hose, Winch Return	1	47	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ	4
20	502-41018	Hose, Main Valve Return	1	48	WAN-37NX000-20	Washer, FL TYP A-NRW 0.375, ST Z	2
21	502-41019	Hose, Pump-Winch Valve	1	49	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z	AR
22	503-06008	Hose, Pump Inlet	1				
23	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1				
24	510-70844	Tube, Main Valve Return	1				
25	513-40014	STR CONN M#6 OFS X M#6 ORB	2				
26	513-50023	STR CONN M#8 OFS X M#8 ORB	2				
27	514-55020	Adaptor, 90 DEG ORFS To O-Ring	1				
28	514-59023	Elbow 90 DEG, 12-6	1				

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

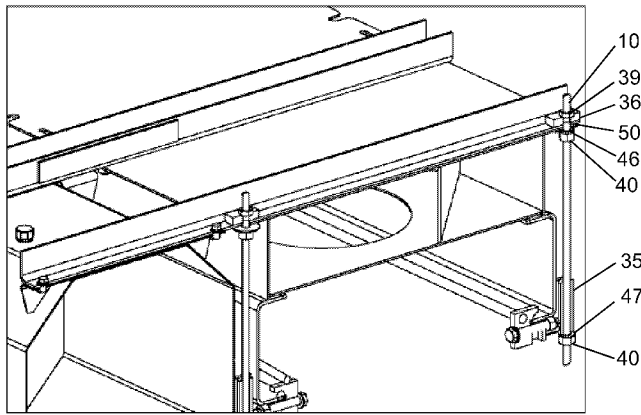
DATE: Revised 07-2009

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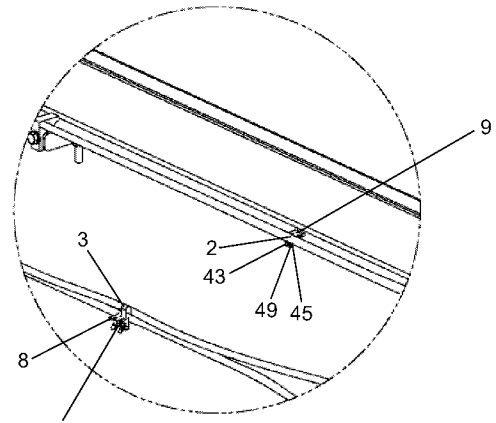
PAGE 25.14

GROUP

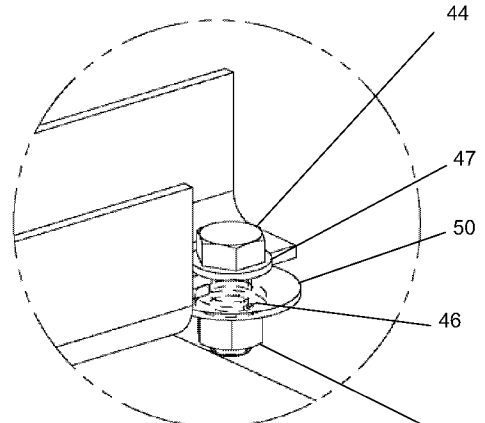
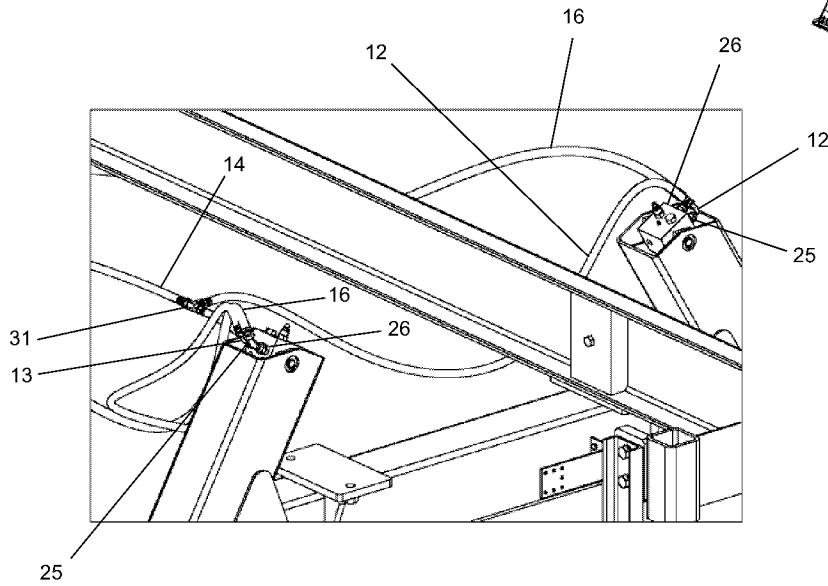
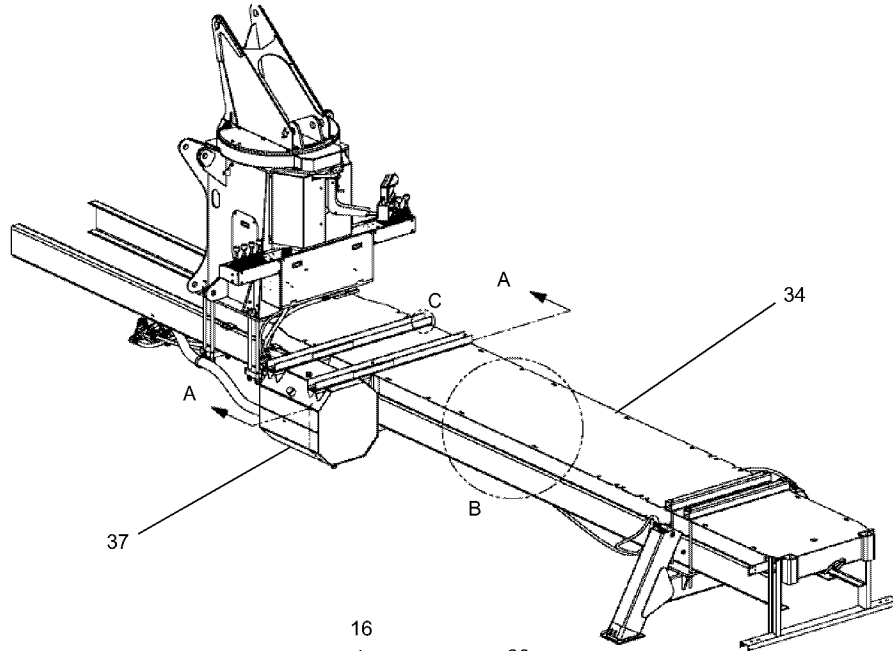
**25**



VIEW A



DETAIL B



DETAIL C

**SEE PAGE 25.18**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

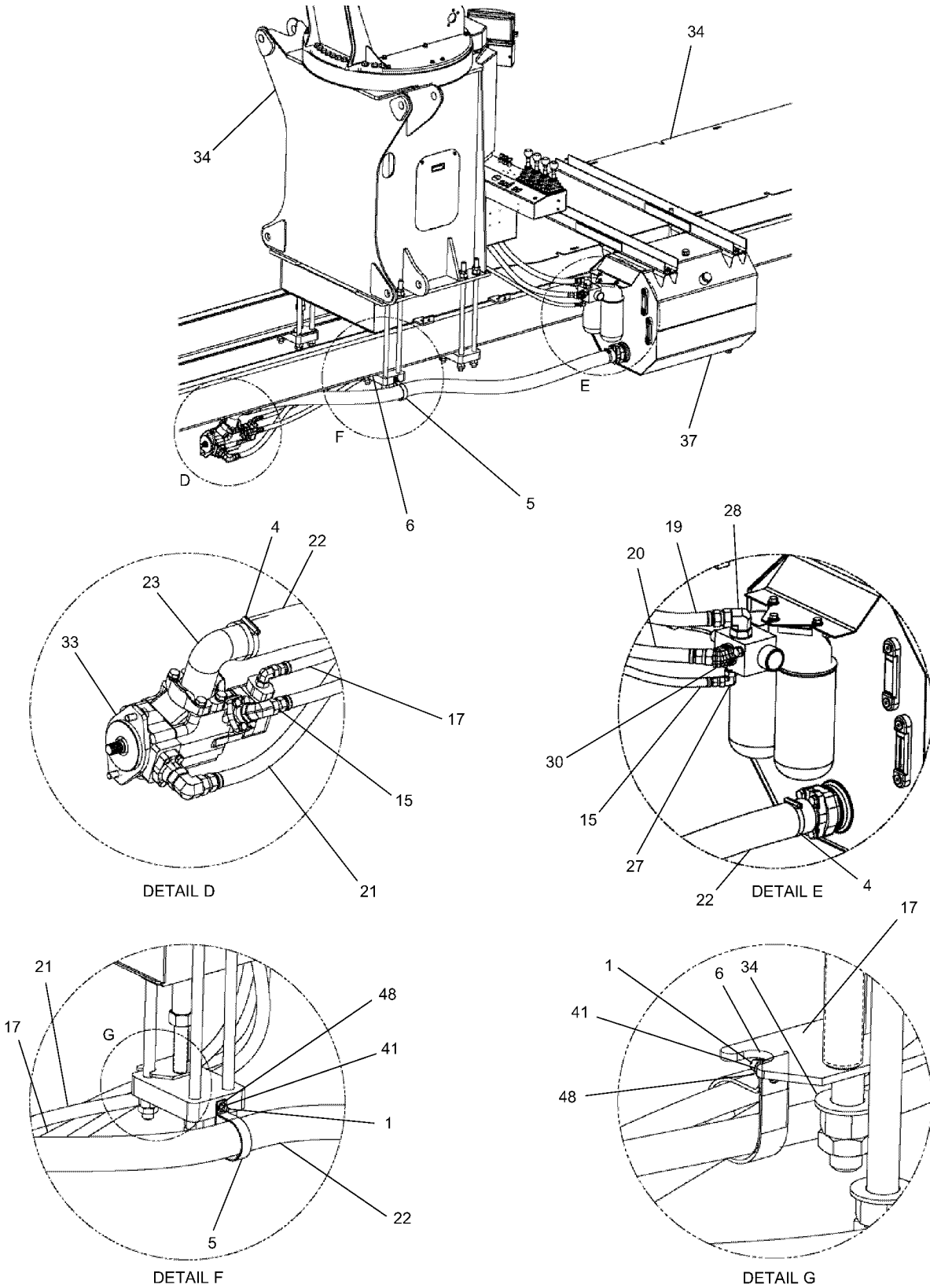
DATE: Revised 07-2009

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GROUP

**25**



**SEE PAGE 25.18**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

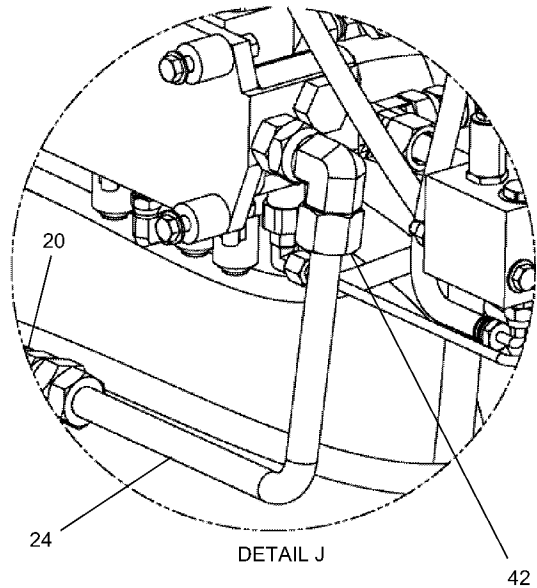
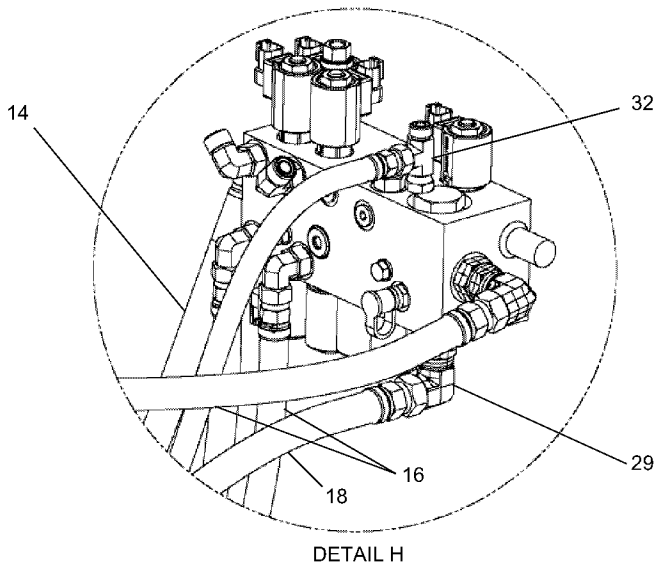
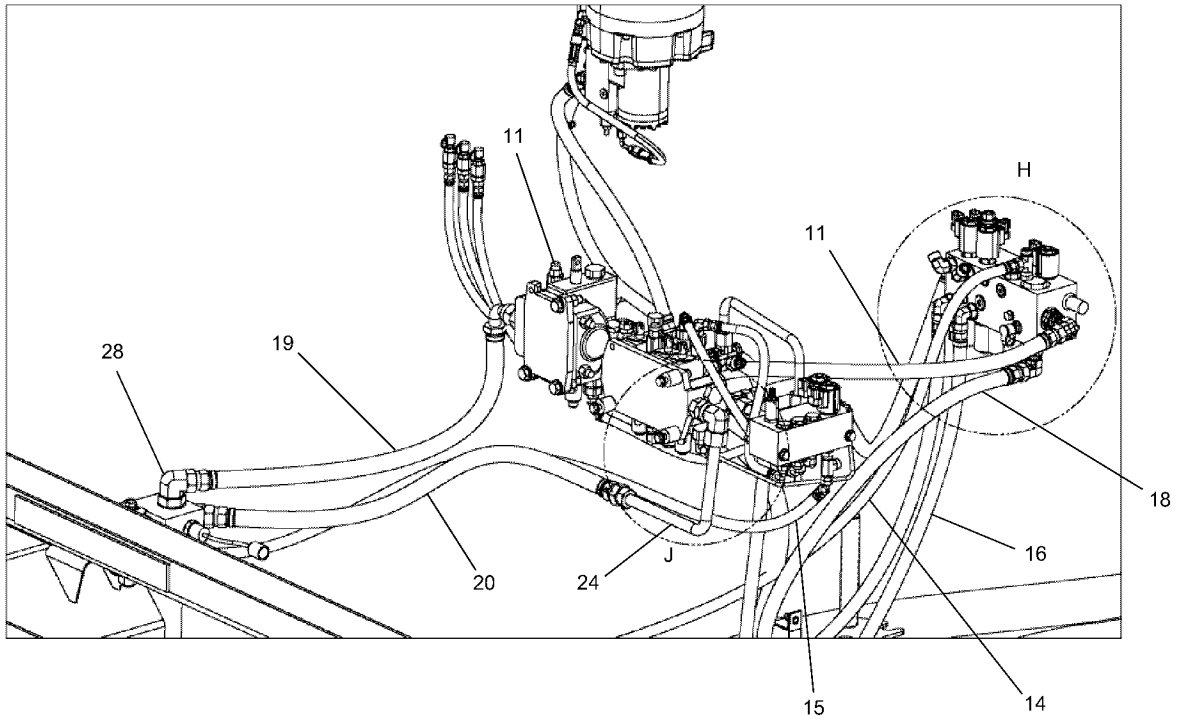
DATE: Revised 07-2009

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GROUP

**25**



**SEE PAGE 25.18**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

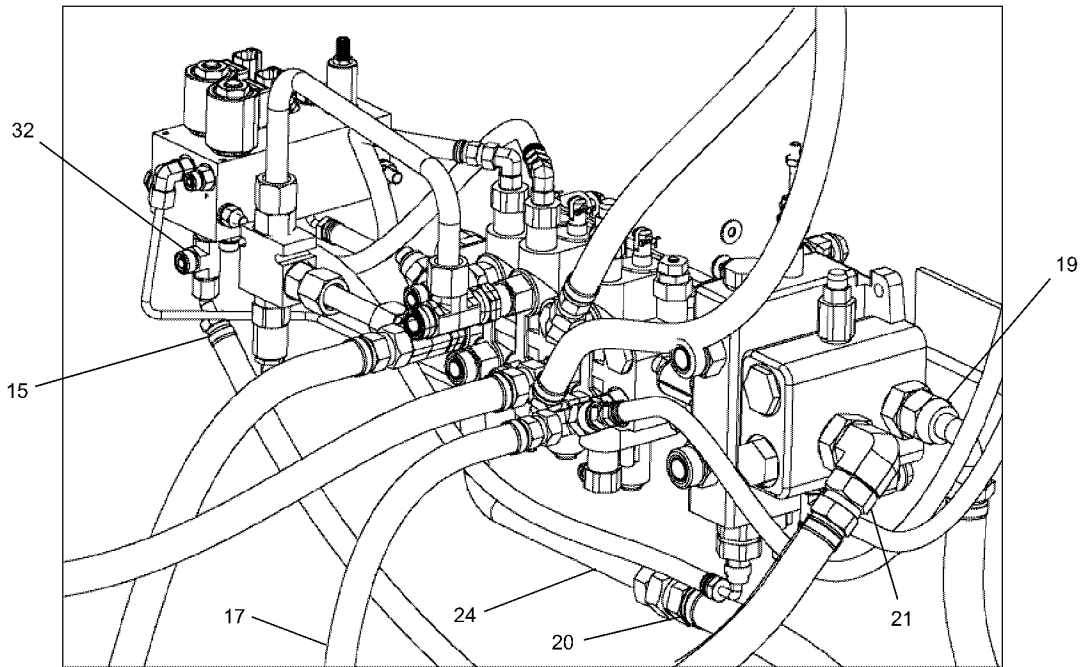
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**25**



**SEE PAGES 25.15, 25.16 & 25.17**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	500-01838-02	<i>Hydraulic Installation, Subframe - MainFrame (Items 1-49)</i>					
1	12196-03	Weld Stud, FT 0.375-16 X 1.00	2	29	514-66004	Elbow 90 M#10 OFS X F#10 OFS	1
2	201-00050	Clamp Block, Single	AR	30	515-07003	Fitting, 45 DEG.	
3	201-00193	Clamp Block, Double	AR			FGFF-6802-12-16	1
4	201-00248	Hose Clamp, T Bolt	2	31	516-44002	Tee CONN 3 X M#6 OFS	1
5	201-00257	Clamp, 3.50 DIA	1	32	516-84003	Tee, Run 2 X M#6 OFS X F#6 OFS	2
6	201-00258	Clamp, 2.50 DIA	1	33	521-00084	Pump Options	REF
7	209-00804	Hose Protector (HP8-B)	1	34	695-10018	Subframe-Mainframe Assembly	REF
8	209-00879	Frame Clip Caddy, Double	AR	35	701-00768	Mid-Mount Tie Down Assembly	2
9	209-00880	Frame Clip Caddy, Single	AR	36	789-05852	Tap Block	2
10	220-07056	Tie Rod	2	37	876-00071	Hydraulic Reservoir Installation	1
11	500-01837-02	Hydraulic Installation, Mainframe-Console	1	38	N04-750C000-Y8	Nut, HEX, 0.75-10, ST YZ GR8	2
12	502-21016	Hose, AUX Outrigger SS RET	1	39	N05-750F000-Y8	Nut, HEX Jam 0.75-16, ST YZ GR8	2
13	502-21017	Hose, AUX Outrigger CS RET	1	40	N12-750F000-2A	Nut, HEX HVY 0.75-16, ST ZN GRA	4
14	502-21018	Hose, Front Outrigger	1	41	NYL-375C000-25	Nut, HEX NYL-INS 0.375-16, ST Z G5	2
15	502-21025	Hose, LMI Return	1	42	SAE520110-12	Nut, HEX, Tubenut 12	REF
16	502-30770	Hose, AUX Outrigger Extend	2	43	SHF-250C750-25	Screw, HHCS FT 0.25-20X0.75, ST Z G5	AR
17	502-30782	Hose, Pump To Main Valve	1	44	SHF-750CA75-Y8	Screw, HHCS FT 0.75-10X1.75, STYZ G8	2
18	502-35089	Hose, Pump-Or Valve	1	45	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z	AR
19	502-41017	Hose, Winch Return	1	46	W07-750X000-20	Washer, LCK, MED SPLT 0.75, ST Z	4
20	502-41018	Hose, Main Valve Return	1	47	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ	4
21	502-41019	Hose, Pump-Winch Valve	1	48	WAN-37NX000-20	Washer, FL TYPA-NRW 0.375, ST Z	2
22	503-06008	Hose, Pump Inlet	1	49	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z	AR
23	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1				
24	510-70844	Tube, Main Valve Return	1				
25	513-40014	STR CONN M#6 OFS X M#6 ORB	2				
26	513-50023	STR CONN M#8 OFS X M#8 ORB	2				
27	514-55020	Adaptor, 90 DEG ORFS To O-Ring	1				
28	514-59023	Elbow 90 DEG, 12-16	1				

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

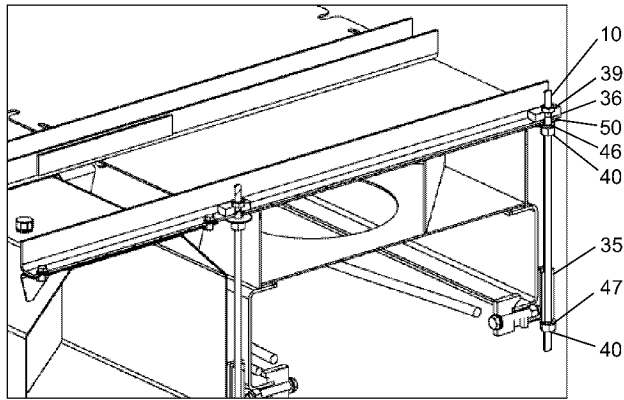
DATE: Revised 07-2009

MODEL: BT3870

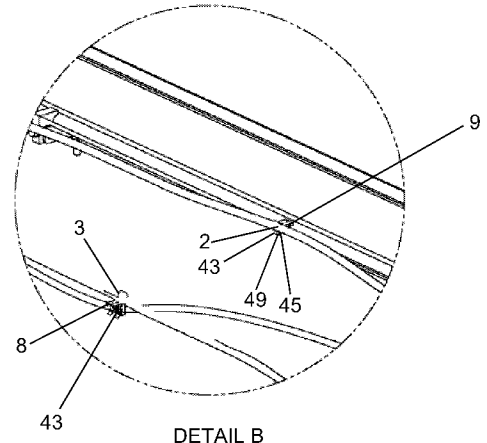
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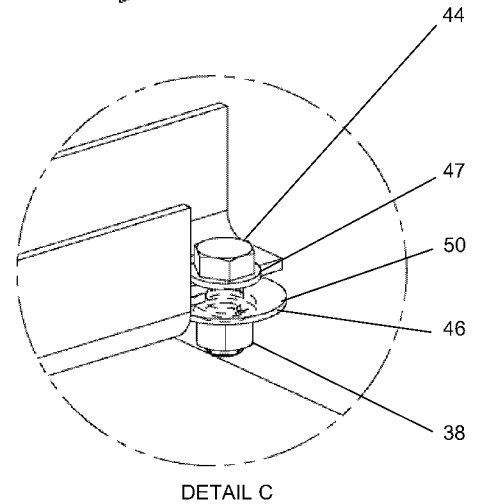
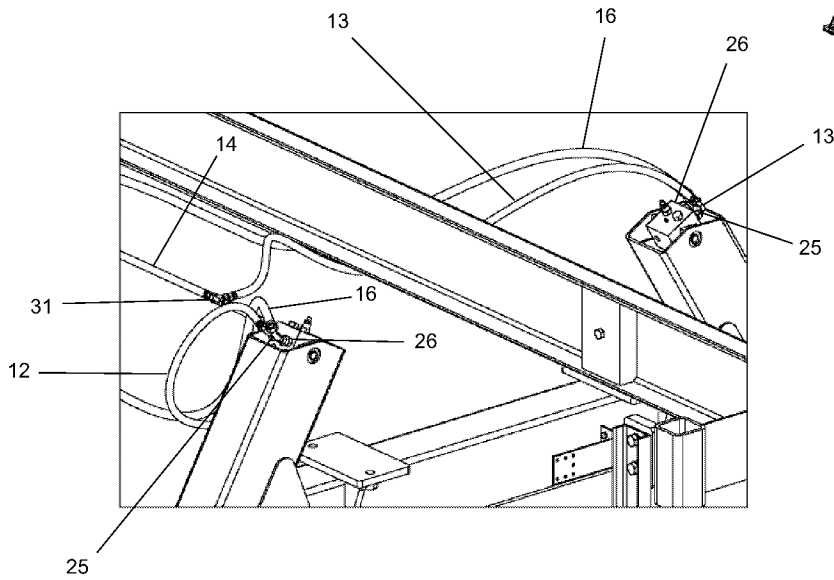
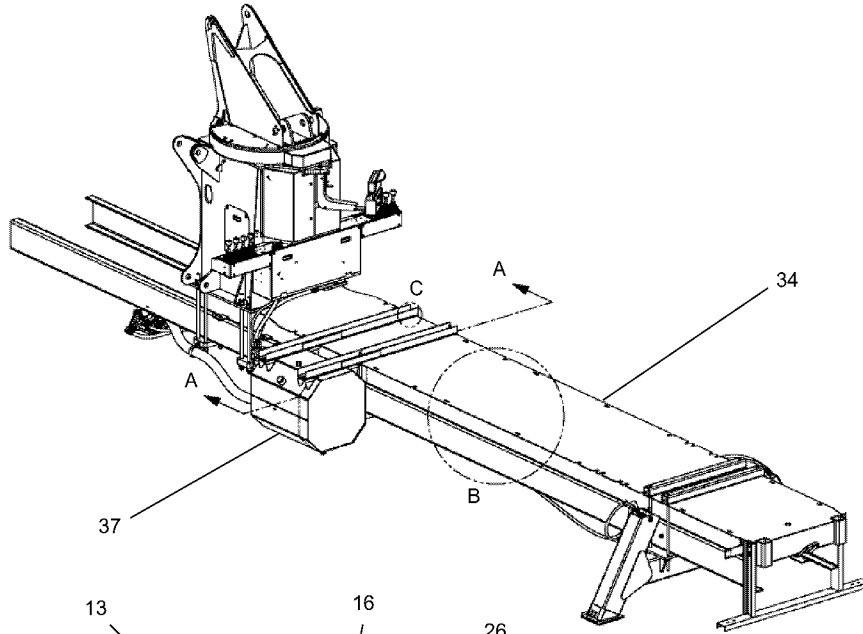
**25**



VIEW A



DETAIL B



DETAIL C

**SEE PAGE 25.22**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

DATE: Revised 07-2009

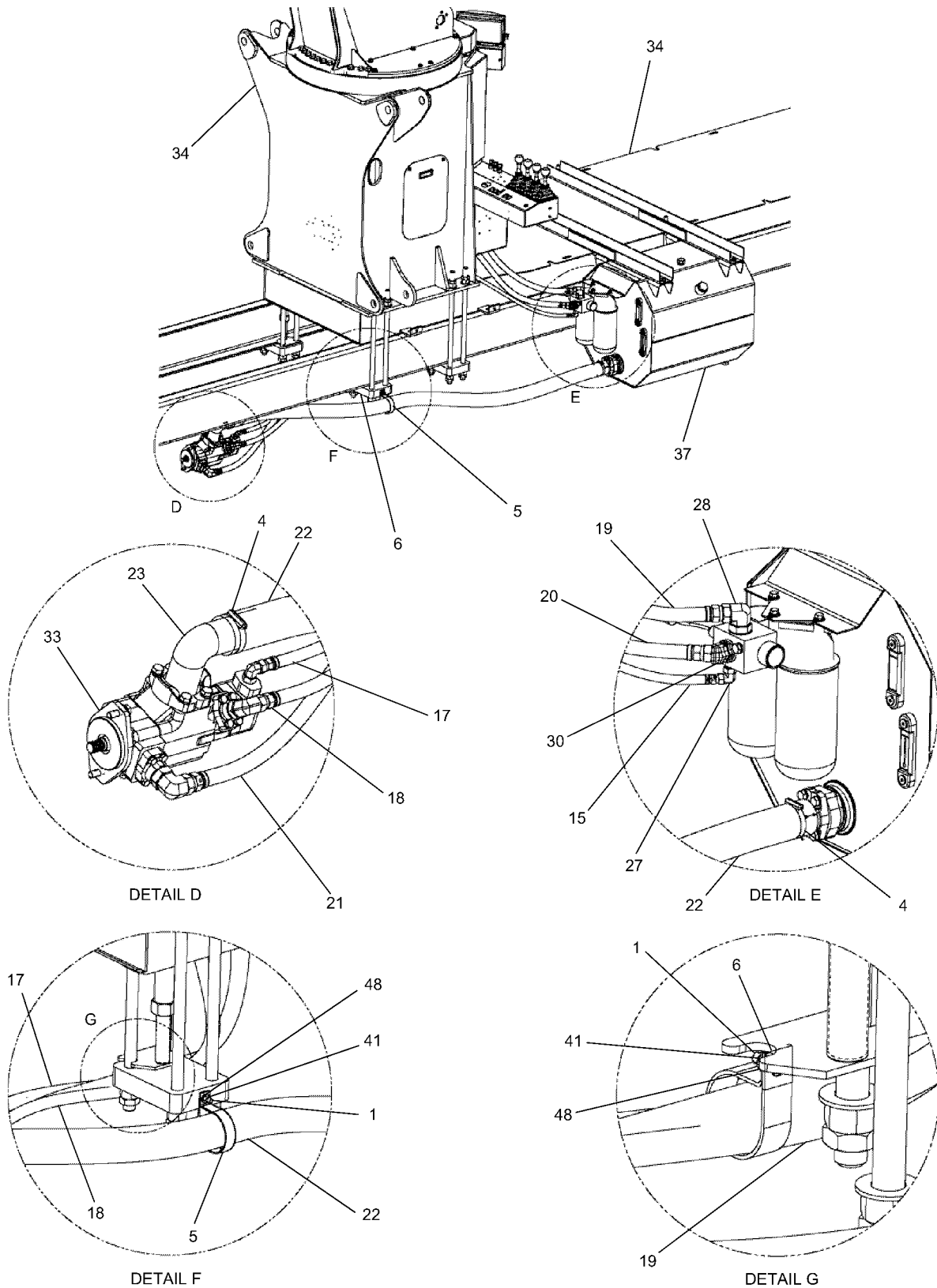
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GROUP

**25**





**SEE PAGE 25.22**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

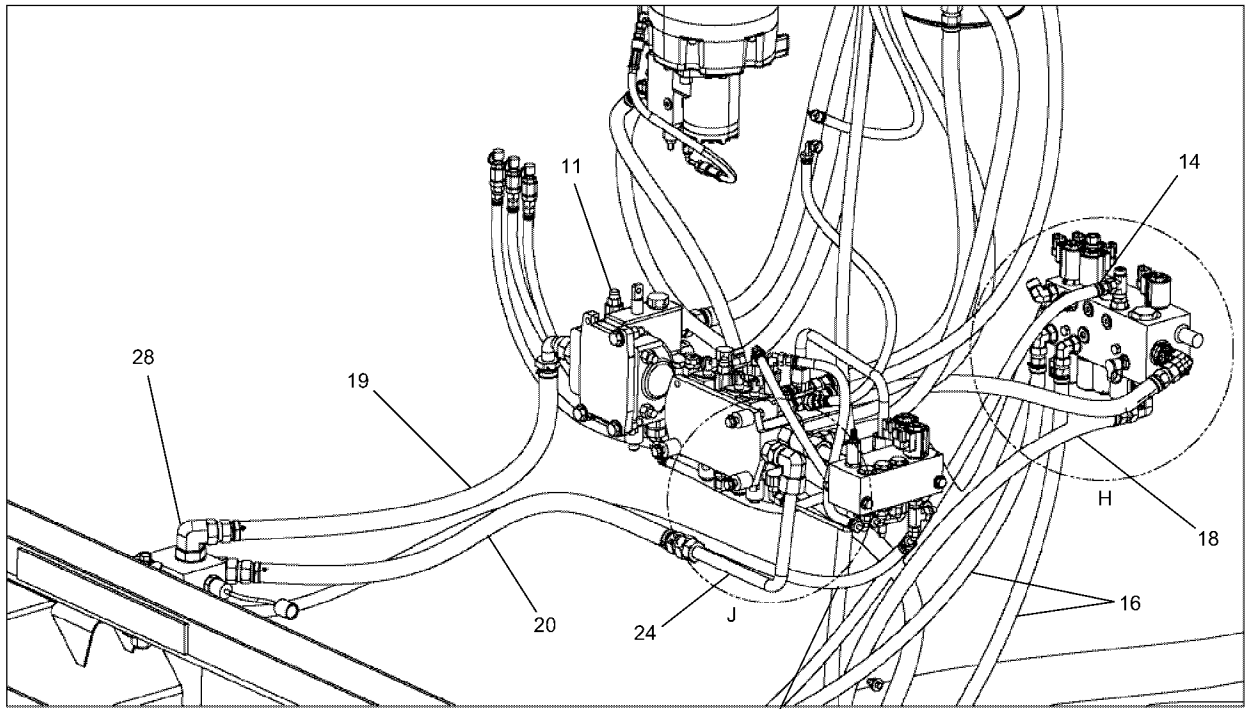
DATE: Revised 07-2009

MODEL: BT3870

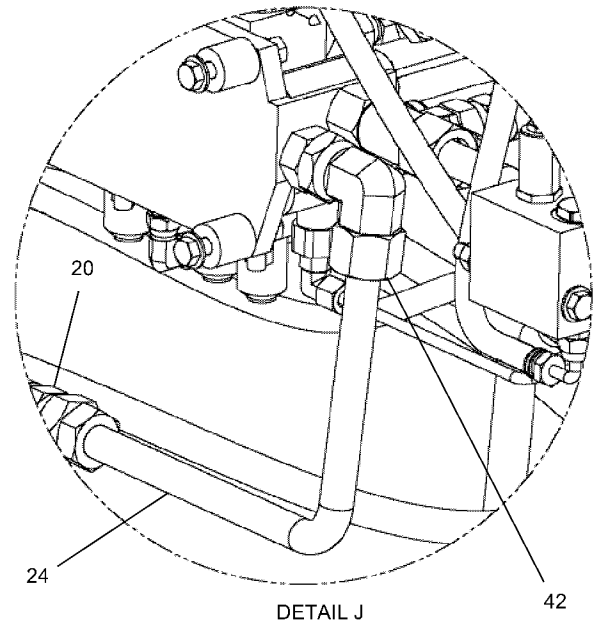
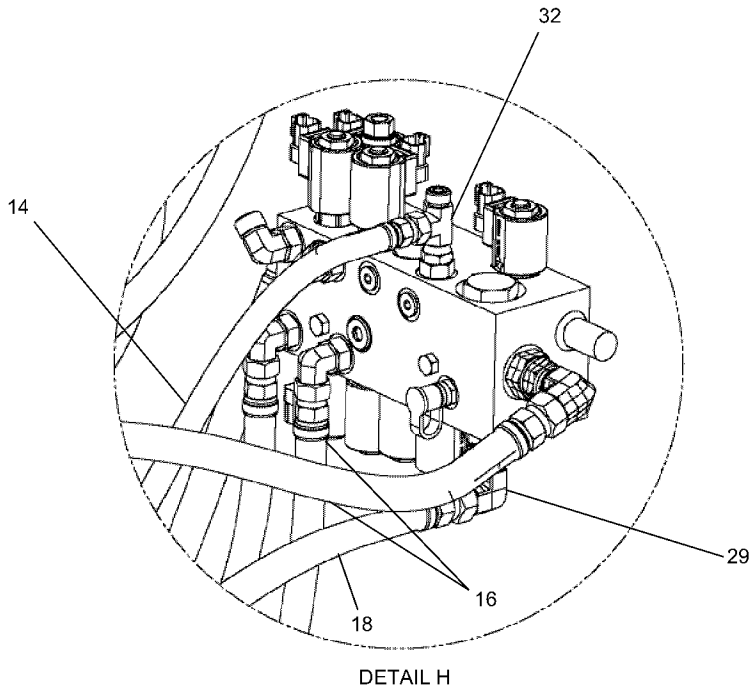
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GROUP

**25**



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**SEE PAGE 25.22**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

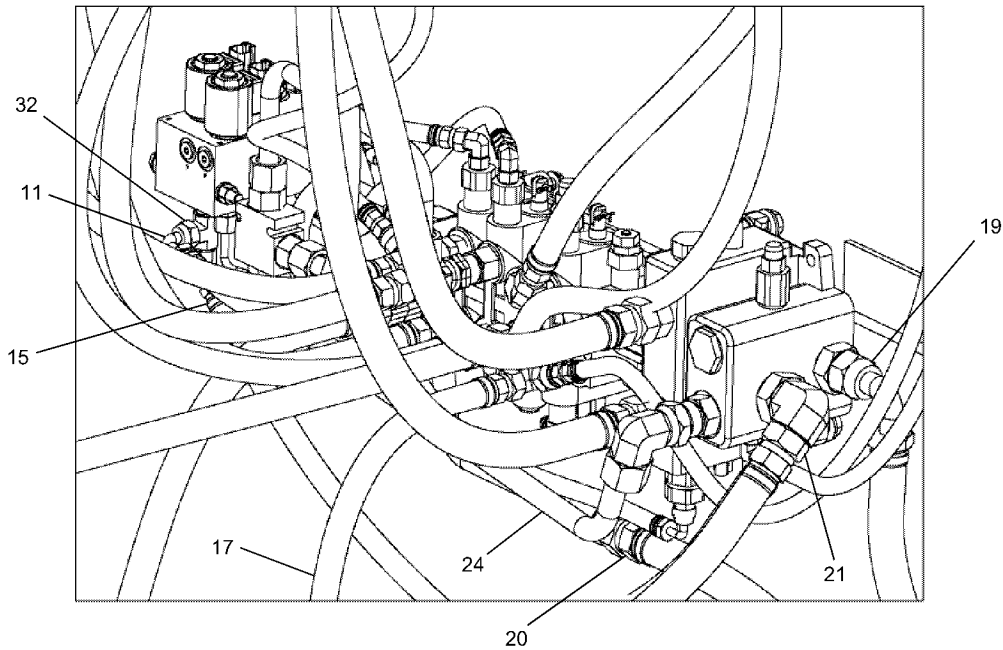
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.21

GROUP

**25**



**SEE PAGES 25.19, 25.20 & 25.21**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	500-01838-03	<i>Hydraulic Installation, Subframe - MainFrame (Items 1-49)</i>					
1	12196-03	Weld Stud, FT 0.375-16 X 1.00	2	29	514-66004	90 Elbow M#10 OFS X F#10 OFS	1
2	201-00050	Clamp Block, Single	AR	30	515-07003	Fitting, 45 DEG, FGFF-6802-12-16	1
3	201-00193	Clamp Block, Double	AR	31	516-44002	Tee CONN 3 X M#6 OFS	1
4	201-00248	Hose Clamp, T Bolt	2	32	516-84003	Tee, Run 2 X M#6 OFS X F#6 OFS	2
5	201-00257	Clamp, 3.50 DIA	1	33	521-00084	Pump Options	REF
6	201-00258	Clamp, 2.50 DIA	1	34	695-10018	Subframe-Mainframe Assembly	REF
7	209-00804	Hose Protector (HP8-B)	1	35	701-00768	Mid-Mount Tie Down Assembly	2
8	209-00879	Frame Clip Caddy, Double	AR	36	789-05852	Tap Block	2
9	209-00880	Frame Clip Caddy, Single	AR	37	876-00071	Hydraulic Reservoir Installation	1
10	220-07056	Tie Rod	2	38	N04-750C000-Y8	Nut, HEX, 0.75-10, ST YZ GR8	2
11	500-01837-03	Hydraulic Installation, Mainframe-Console	1	39	N05-750F000-Y8	Nut, HEX Jam 0.75-16, ST YZ GR8	2
12	502-21016	Hose, AUX Outrigger SS RET	1	40	N12-750F000-2A	Nut, HEX HVY 0.75-16, ST ZN GRA	4
13	502-21017	Hose, AUX Outrigger CS RET	1	41	NYL-375C000-25	Nut, HEX NYL-INS 0.375-16, ST Z G5	2
14	502-21018	Hose, Front Outrigger	1	42	SAE520110-12	Nut, HEX, Tubenut 12	REF
15	502-21025	Hose, LMI Return	1	43	SHF-250C750-25	Screw, HHCS FT 0.25-20 X 0.75, ST Z G5	AR
16	502-30770	Hose, AUX Outrigger Extend	2	44	SHF-750CA75-Y8	Screw, HHCS FT 0.75-10 X 1.75, STYZ G8	2
17	502-30782	Hose, Pump To Main Valve	1	45	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z	AR
18	502-35089	Hose, Pump-Or Valve	1	46	W07-750X000-20	Washer, LCK, MED SPLT 0.75, ST Z	4
19	502-41017	Hose, Winch Return	1	47	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ	4
20	502-41018	Hose, Main Valve Return	1	48	WAN-37NX000-20	Washer, FL TYP A-NRW 0.375, ST Z	2
21	502-41019	Hose, Pump-Winch Valve	1	49	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z	AR
22	503-06008	Hose, Pump Inlet	1				
23	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1				
24	510-70844	Tube, Main Valve Return	1				
25	513-40014	STR CONN M#6 OFS X M#6 ORB	2				
26	513-50023	STR CONN M#8 OFS X M#8 ORB	2				
27	514-55020	Adapter, 90 DEG ORFS To O-Ring	1				
28	514-59023	Elbow 90DEG, 12-16	1				

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

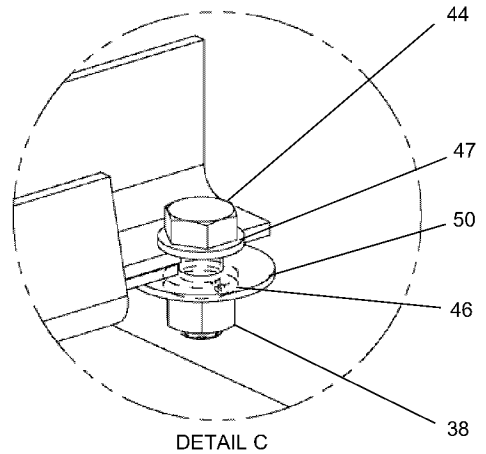
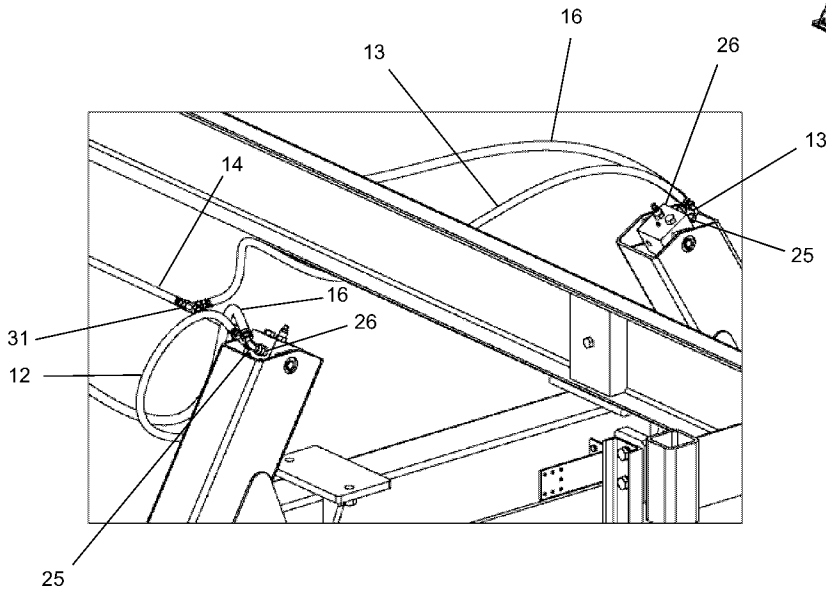
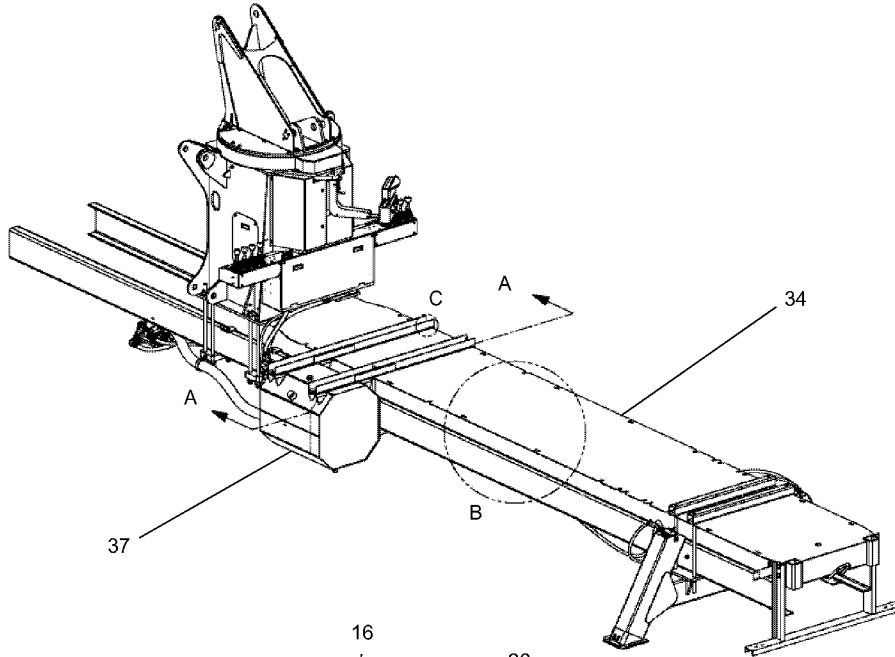
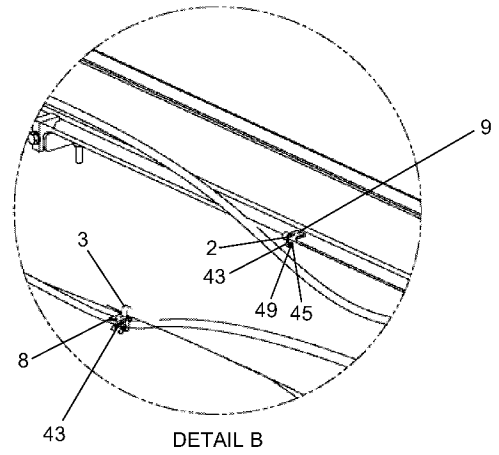
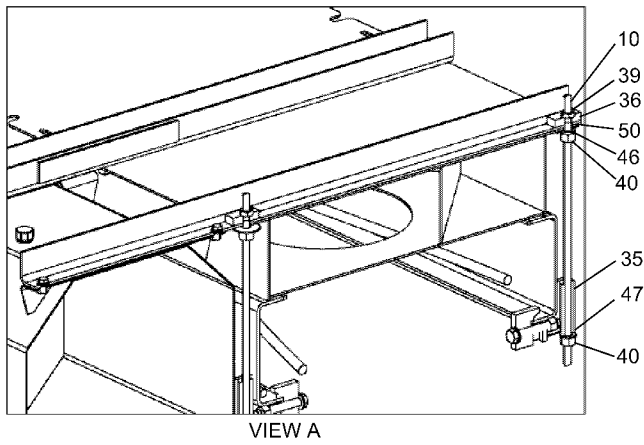
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.22

GROUP

**25**



**SEE PAGE 25.26**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

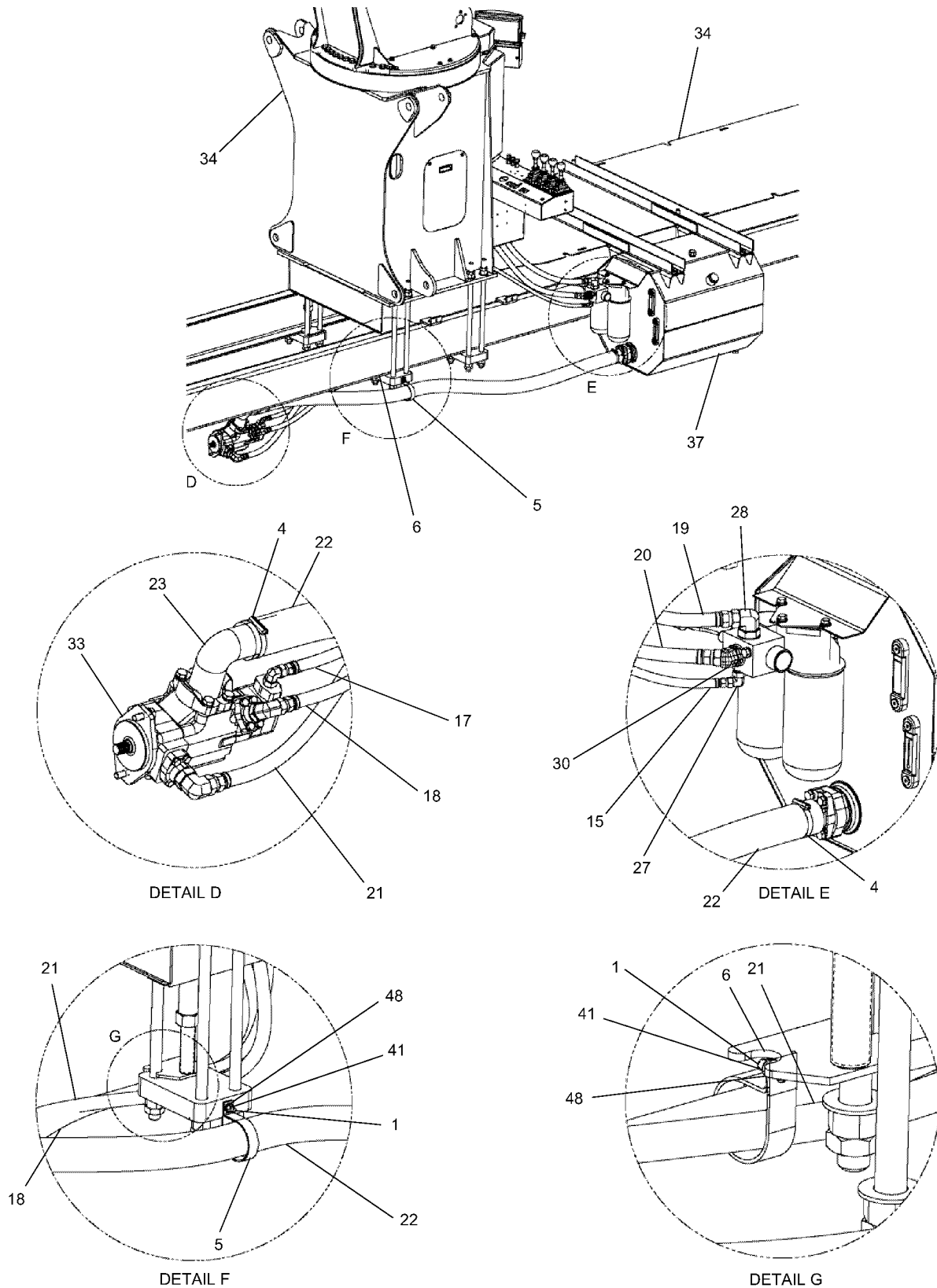
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.23

GROUP

**25**



**SEE PAGE 25.26**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

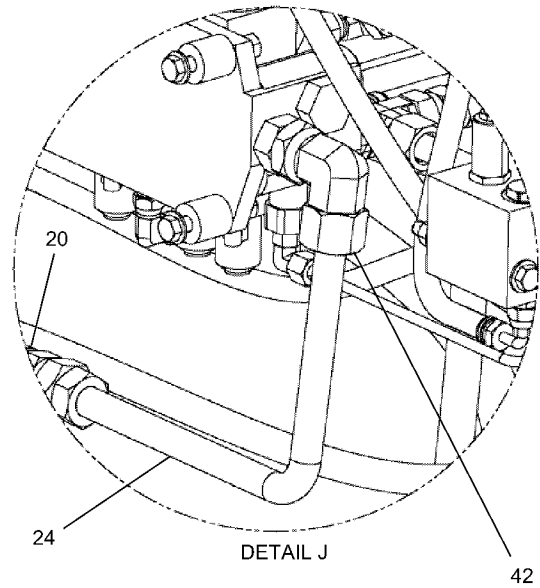
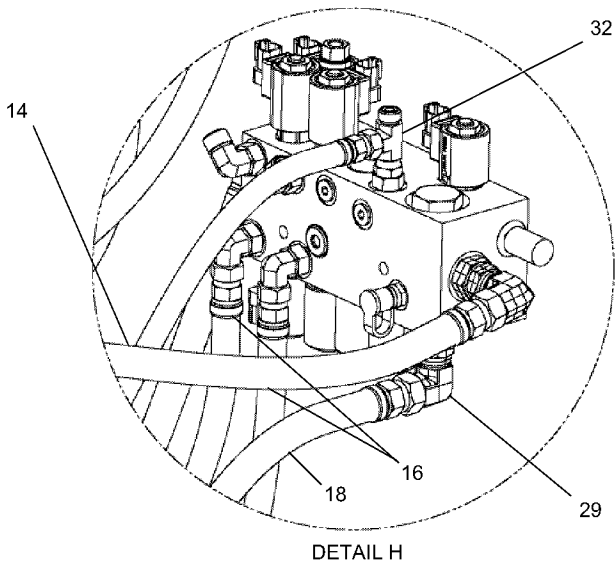
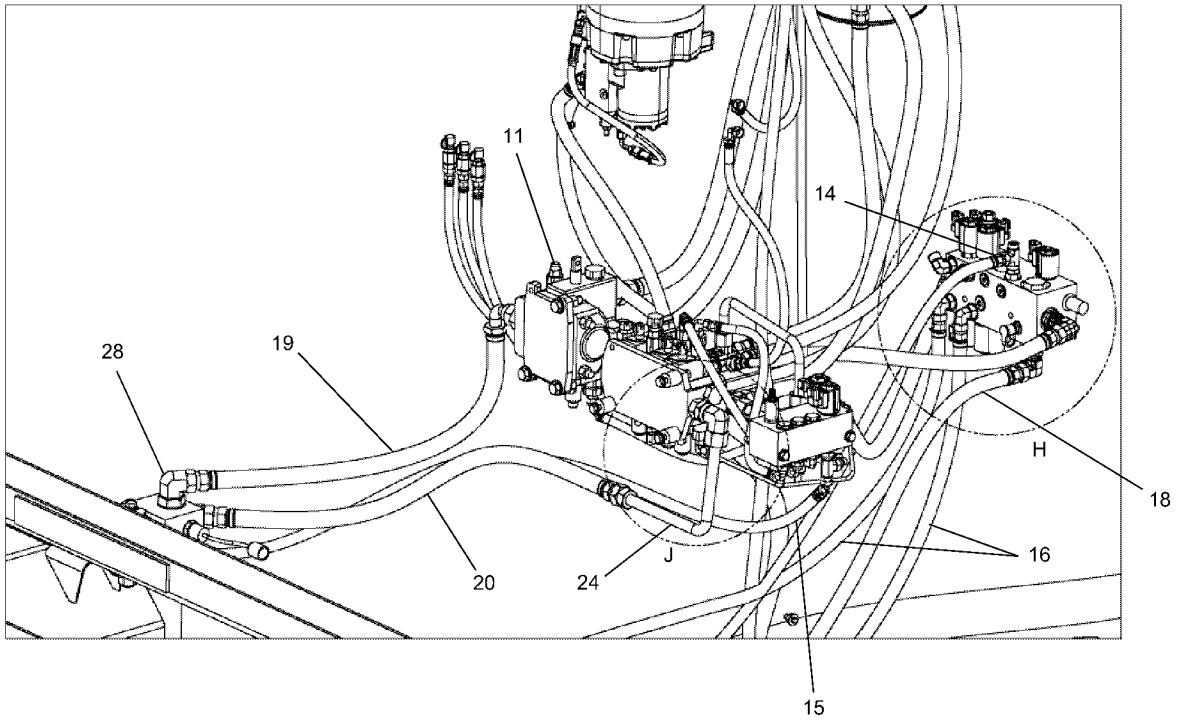
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.24

GROUP

**25**



**SEE PAGE 25.26**

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

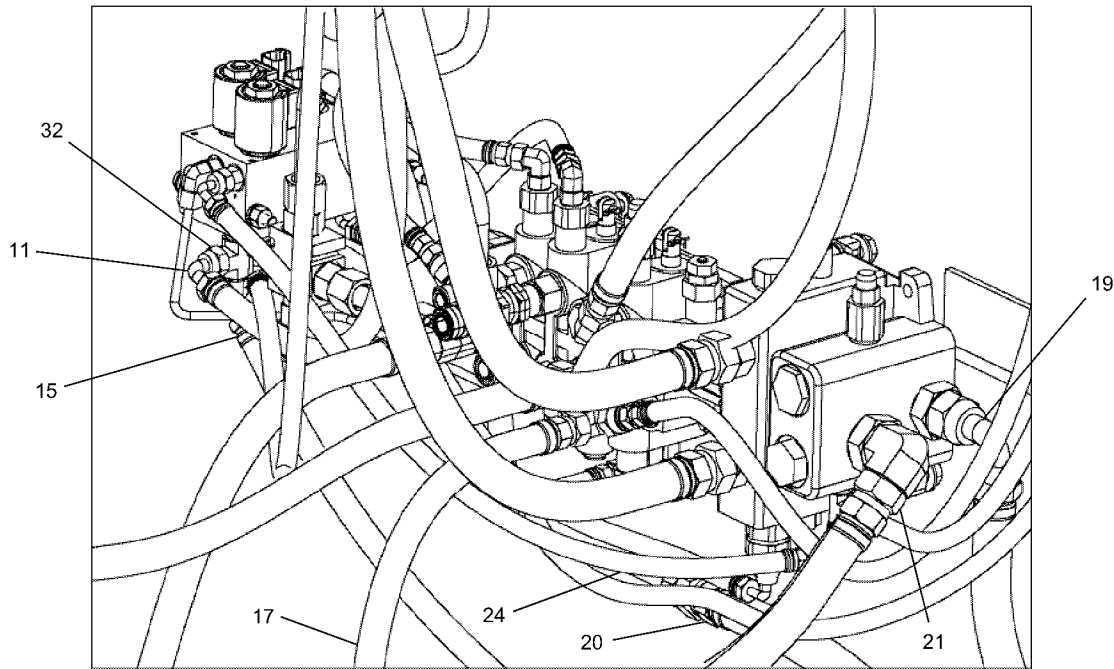
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.25

GROUP

**25**



**SEE PAGES 25.23, 25.24 & 25.25**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	500-01838-04	Hydraulic Installation, Subframe - MainFrame (Items 1-49)					
1	12196-03	Weld Stud, FT 0.375-16 X 1.00	2	29	514-66004	90 Elbow M#10 OFS X F#10 OFS	1
2	201-00050	Clamp Block, Single	AR	30	515-07003	Fitting, 45 DEG, FGFF-6802-12-16	1
3	201-00193	Clamp Block, Double	AR	31	516-44002	Tee CONN 3 X M#6 OFS	1
4	201-00248	Hose Clamp, T Bolt	2	32	516-84003	Tee, Run 2 X M#6 OFS X F#6 OFS	2
5	201-00257	Clamp, 3.50 DIA	1	33	521-00084	Pump Options	REF
6	201-00258	Clamp, 2.50 DIA	1	34	695-10018	Subframe-Mainframe Assembly	REF
7	209-00804	Hose Protector (HP8-B)	1	35	701-00768	Mid-Mount Tie Down Assembly	2
8	209-00879	Frame Clip Caddy, Double	AR	36	789-05852	Tap Block	2
9	209-00880	Frame Clip Caddy, Single	AR	37	876-00071	Hydraulic Reservoir Installation	1
10	220-07056	Tie Rod	2	38	N04-750C000-Y8	Nut, HEX, 0.75-10, ST YZ GR8	2
11	500-01837-04	Hydraulic Installation, Mainframe-Console	1	39	N05-750F000-Y8	Nut, HEX Jam 0.75-16, ST YZ GR8	2
12	502-21016	Hose, AUX Outrigger SS RET	1	40	N12-750F000-2A	Nut, HEX HVY 0.75-16, ST ZN GRA	4
13	502-21017	Hose, AUX Outrigger CS RET	1	41	NYL-375C000-25	Nut, HEX NYL-INS 0.375-16, ST Z G5	2
14	502-21018	Hose, Front Outrigger	1	42	SAE520110-12	Nut, HEX, Tubenut 12	REF
15	502-21025	Hose, LMI Return	1	43	SHF-250C750-25	Screw, HHCS FT 0.25-20X0.75, ST Z G5	AR
16	502-30770	Hose, AUX Outrigger Extend	2	44	SHF-750CA75-Y8	Screw, HHCS FT 0.75-10X1.75, STYZ G8	2
17	502-30782	Hose, Pump To Main Valve	1	45	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z	AR
18	502-35089	Hose, Pump-Or Valve	1	46	W07-750X000-20	Washer, LCK, MED SPLT 0.75, ST Z	4
19	502-41017	Hose, Winch Return	1	47	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ	4
20	502-41018	Hose, Main Valve Return	1	48	WAN-37NX000-20	Washer, FL TYPA-NRW 0.375, ST Z	2
21	502-41019	Hose, Pump-Winch Valve	1	49	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z	AR
22	503-06008	Hose, Pump Inlet	1				
23	504-03509	Hose End 90, Beaded, 4 Bolt FLNG	1				
24	510-70844	Tube, Main Valve Return	1				
25	513-40014	STR CONN M#6 OFS X M#6 ORB	2				
26	513-50023	STR CONN M#8 OFS X M#8 ORB	2				
27	514-55020	Adapter, 90 DEG ORFS To O-Ring	1				
28	514-59023	Elbow 90DEG, 12-16	1				

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



**HYDRAULIC INSTALLATION,  
SUBFRAME & MAINFRAME**

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MODEL: BT3870

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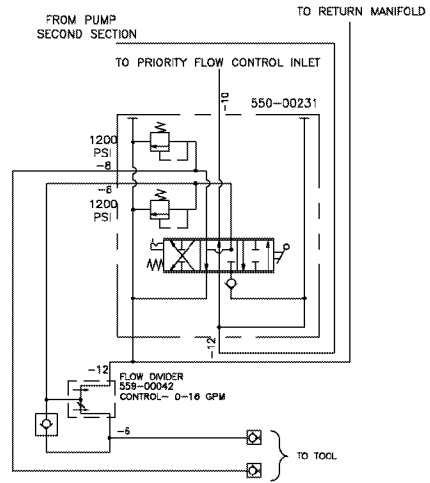
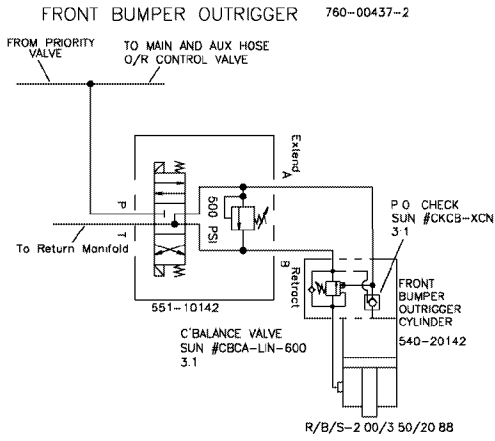
GROUP

**25**

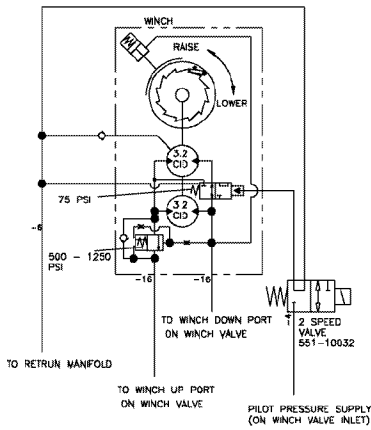




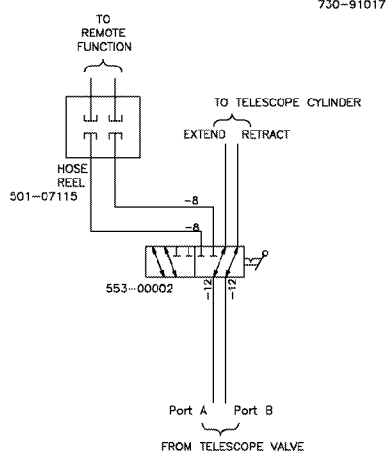
HYD AUX GROUND TOOL CIRCUIT 500-01544



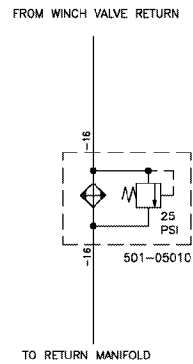
MOTOR SHIFT 2 SPEED WINCH 293-00045



REMOTE FUNCTION SELECTOR (RFR PKG) 730-91017



OIL COOLER 526-00013



SEE PAGE 25.29

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



HYDRAULIC SCHEMATIC

DATE: Revised 07-2009

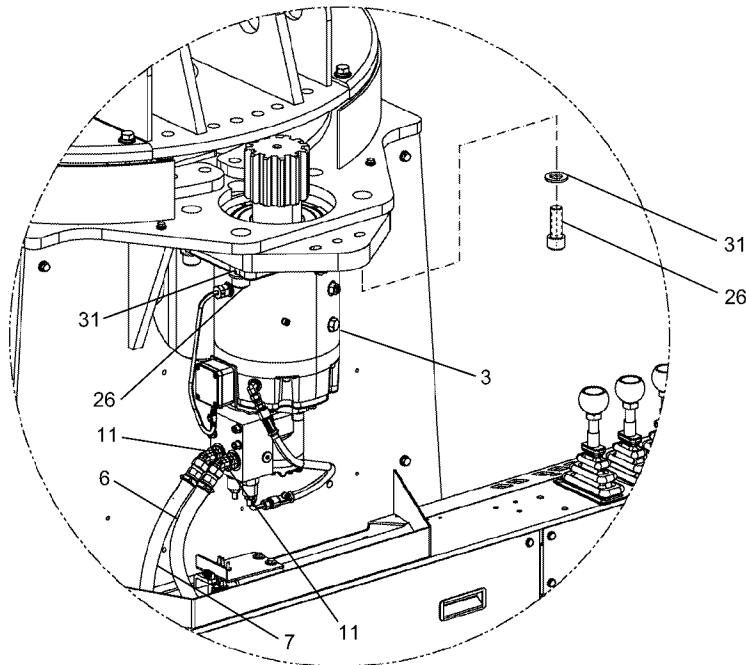
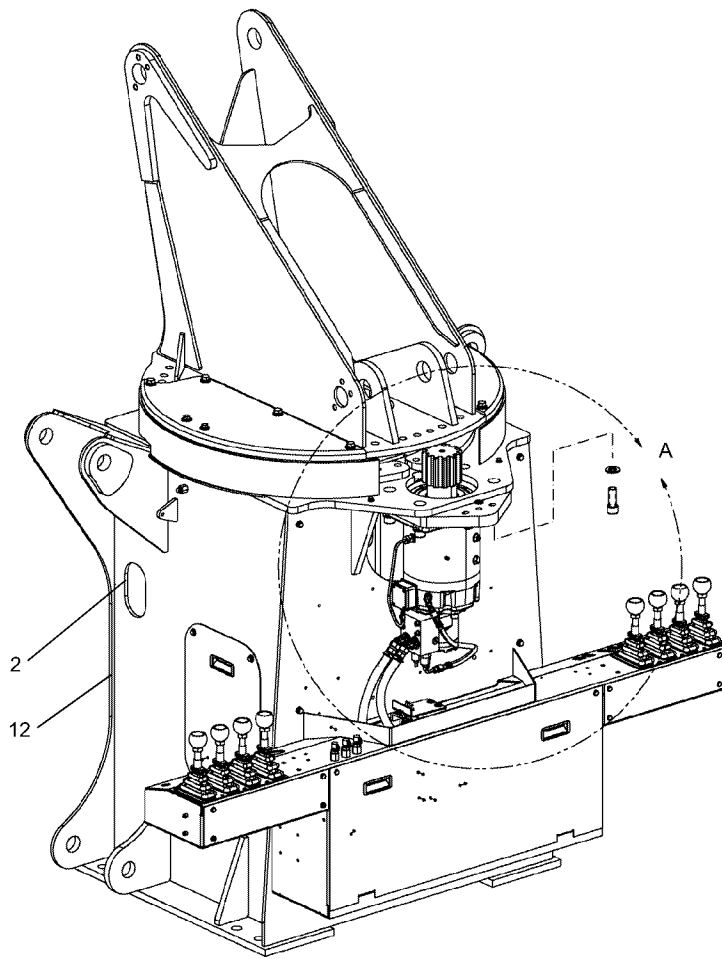
MODEL: BT3870

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GROUP

25





DETAIL A

**SEE PAGE 25.33**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

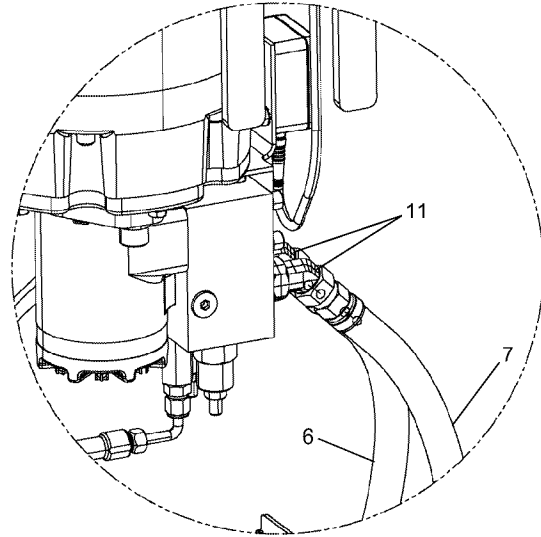
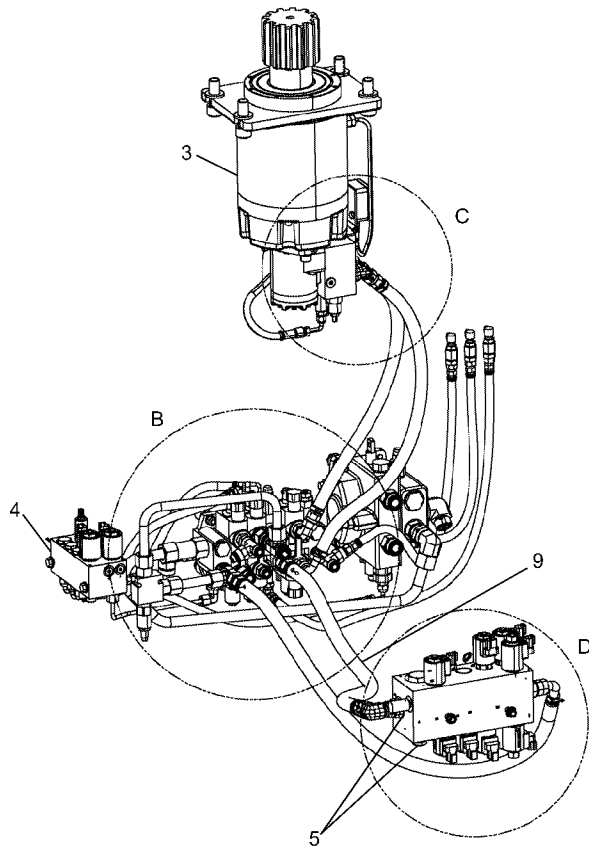
DATE: Revised 07-2009

MODEL: BT3870

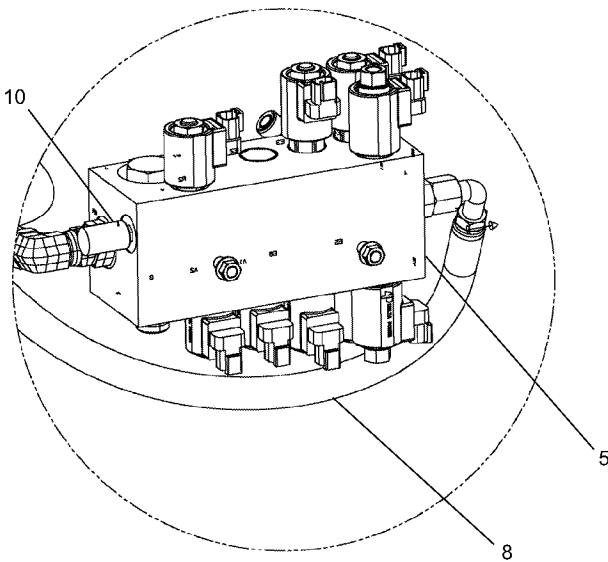
PAGE 25.30

GROUP

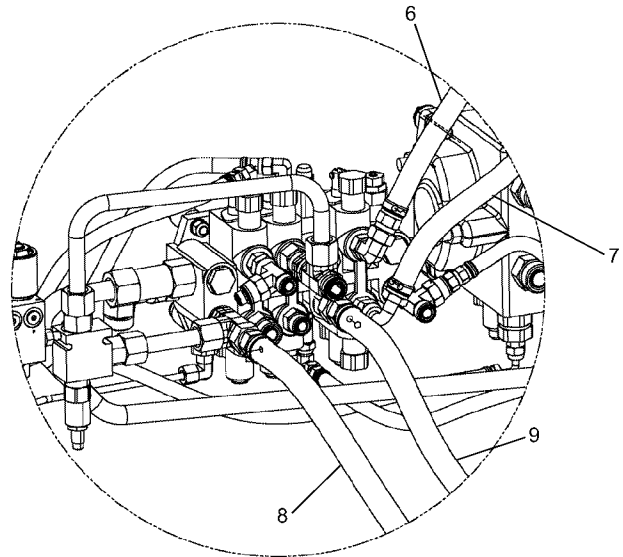
**25**



DETAIL C



DETAIL D



DETAIL B

**SEE PAGE 25.33**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

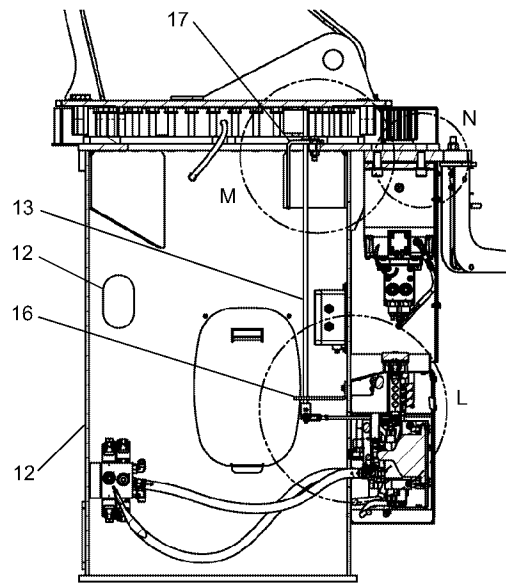
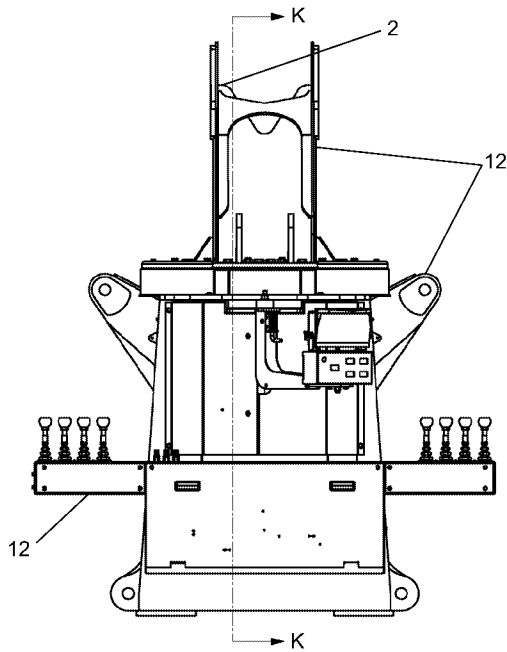
DATE: Revised 07-2009

MODEL: BT3870

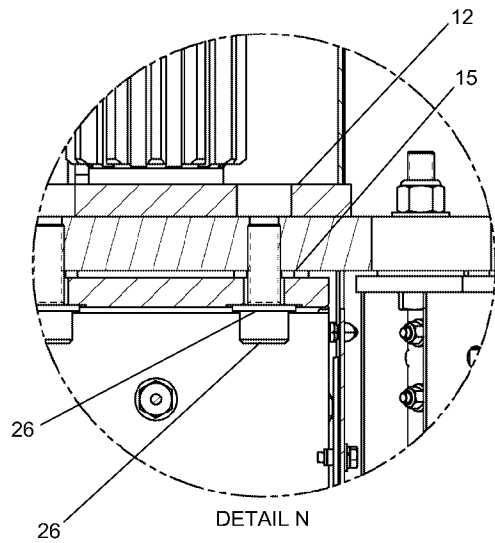
PAGE 25.31

GROUP

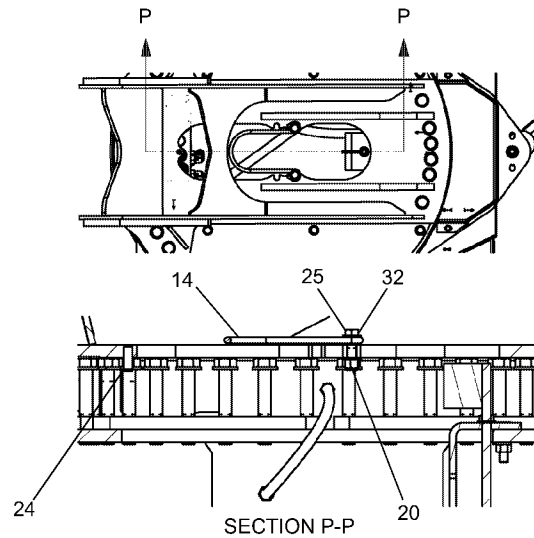
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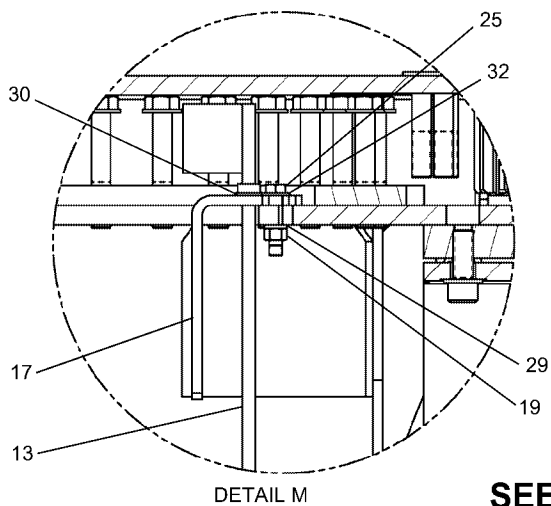
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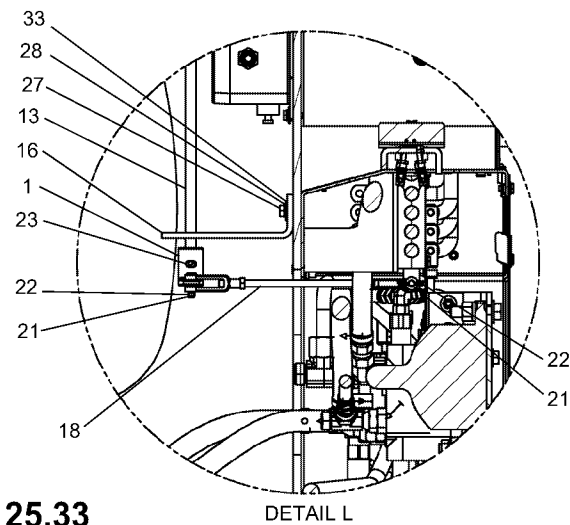
DETAIL N



SECTION P-P



DETAIL M



DETAIL L

SEE PAGE 25.33

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**25**

**SEE PAGES 25.30, 25.31 & 25.32**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01837-01	<i>Hydraulic Installation, Mainframe - Console (Items 1-33)</i>	
1	100-30028	Assembly, Control Link.....	1
2	12169-16	Flex Trim 3/8" x 18" Long .....	3
3	292-00049	Gearbox Assembly, Turret ROTAT .....	1
4	500-01836-01	Hydraulic Installation, Console .....	1
5	500-01844	Valve Sub-Assembly, Outrigger.....	1
6	502-30779	Hose, Swing-Drive .....	1
7	502-30780	Hose, Swing Valve-Drive.....	1
8	502-35082	Hose, Outrigger Return .....	1
9	502-35091	Hose Or PB-Boom .....	1
10	514-66004	Elbow 90 M#10 OFS X F#10 OFS .....	1
11	515-05005	45 Elbow #8 OFS X #10 ORB .....	2
12	695-00185	Mainframe-Console Assembly .....	REF
13	719-00480	Flag Weld, Swing Stop .....	1
14	770-02831	Bracket, Hose Guide .....	1
15	781-00336	Boss, 1.38 X 0.813 X 0.16 .....	4
16	785-01678	Support Angle, Swing Stop .....	1
17	789-06007	Arm, Collector Ring Stop.....	1
18	806-00245	Control Link Assembly .....	1
19	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5.....	2
20	NYL-500C000-25	Nut, HEX NYL-INS 0.50-13, ST Z G5 .....	2
21	P01-312XA00-PO	Pin, Clevis 0.3125X1.00, STL .....	2
22	P02-125X750-20	Pin, Cotter 0.125X0.75, ST Z .....	2
23	P22-188XA50-GP	Pin, Spring SL TD 0.1875X1.50, ST .....	1
24	P22-500XA50-G2	Pin, Spring SL TD 0.50X1.50, ST Z .....	1
25	S01-500CB00-25	Screw, HHCS 0.50-13X2.00, ST Z GR5 .....	4
26	S14-750CB00-H2	Screw, SHCS 0.75-10 X 2.00, ST Z .....	4
27	SHF-312C750-25	Screw, HHCS FT 0.312-18X0.75, STZ G5.....	2
28	W07-312X000-20	Washer, LCK, MED SPLT 0.3125, ST Z.....	2
29	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z .....	2
30	WAH-50NX000-Y2	Washer, FL HRD A-NRW 0.50, ST YZ.....	1
31	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	4
32	WAN-50NX000 - 20	Washer, FL TYP A-NRW 0.50, ST Z .....	8
33	WBR-31RX875 -20	Washer, FL TYPB-REG 0.3125, ST Z.....	2

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

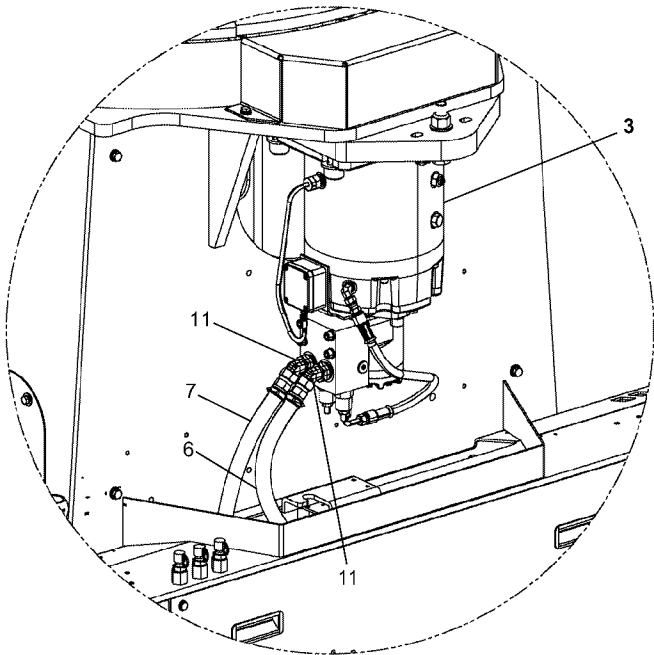
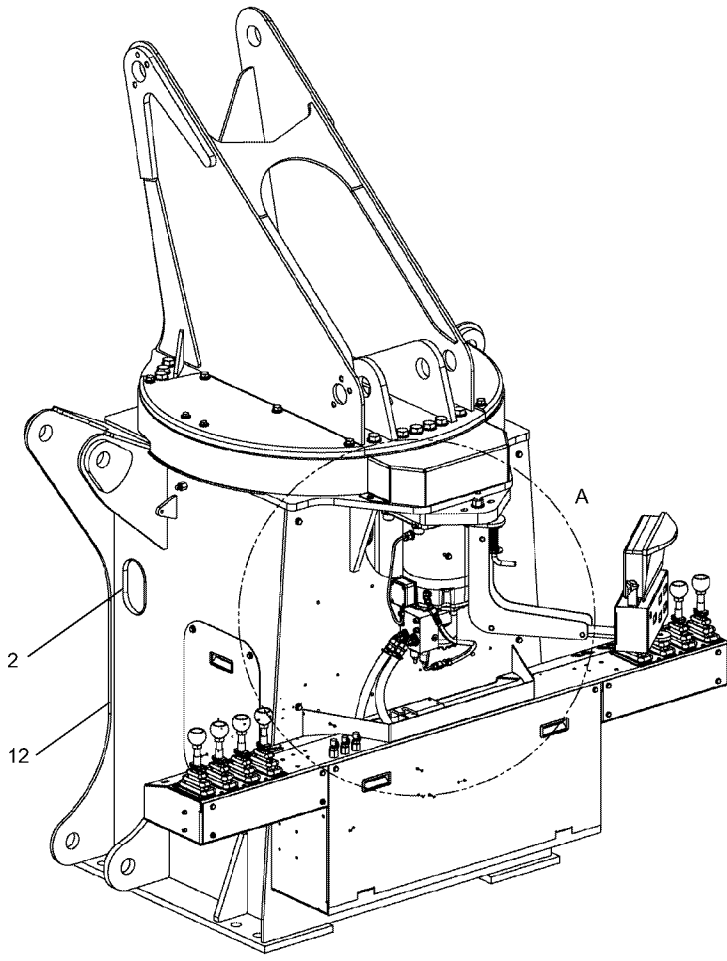
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.33

GROUP

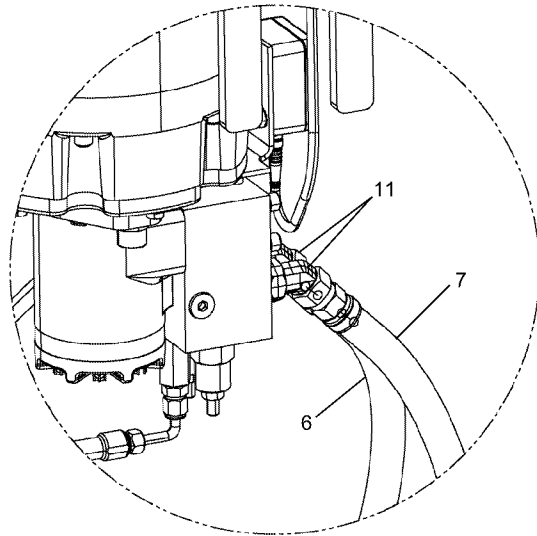
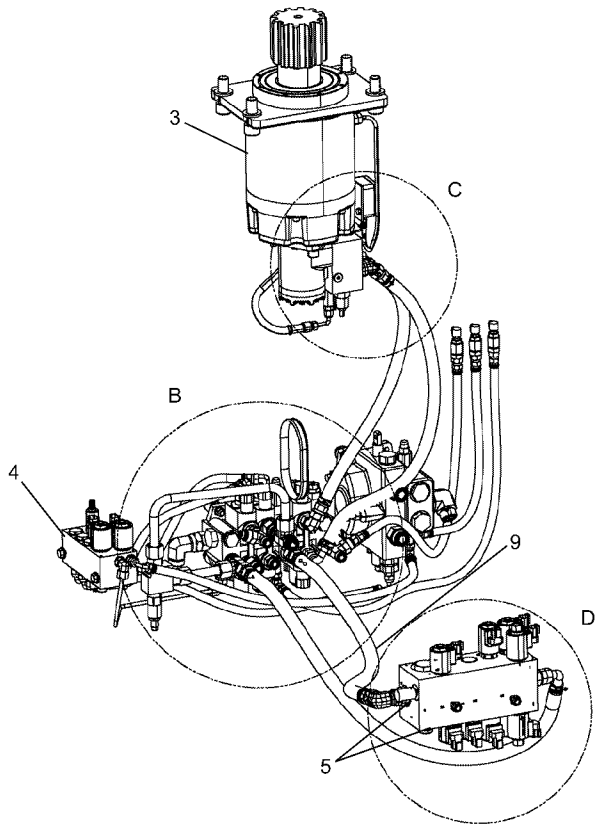
**25**



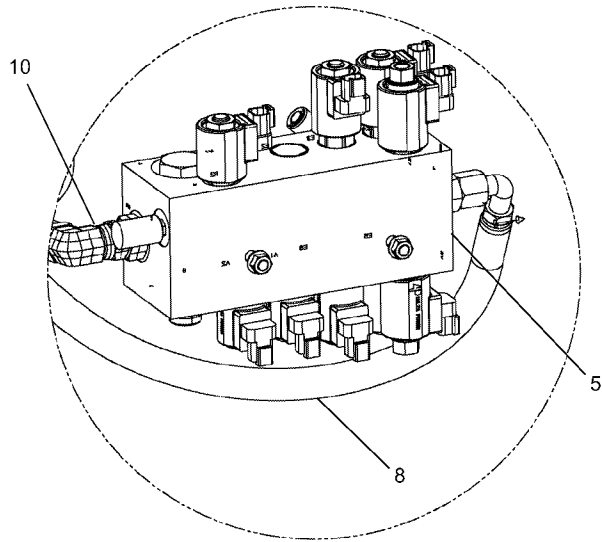
DETAIL A  
**SEE PAGE 25.37**

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

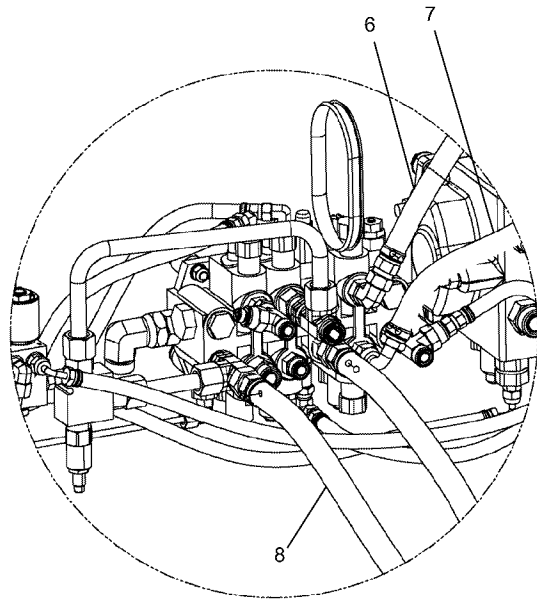
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		MODEL: BT3870	
		PAGE 25.34	



DETAIL C



DETAIL D



DETAIL B

**SEE PAGE 25.37**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

DATE: Revised 07-2009

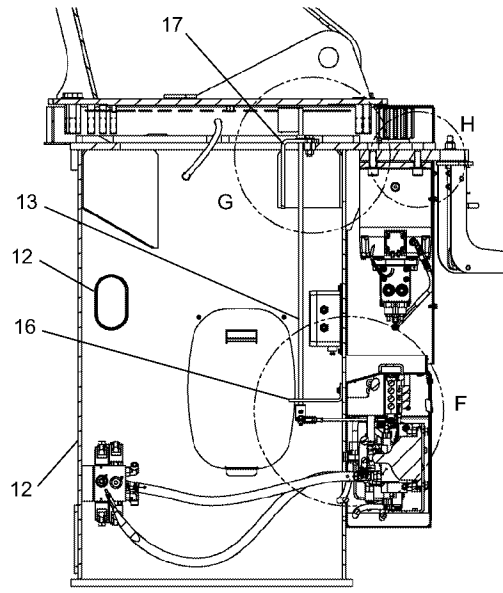
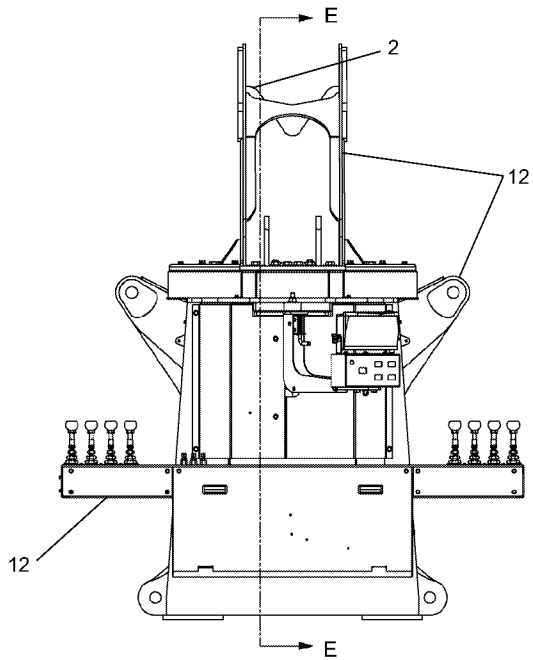
MODEL: BT3870

PAGE 25.35

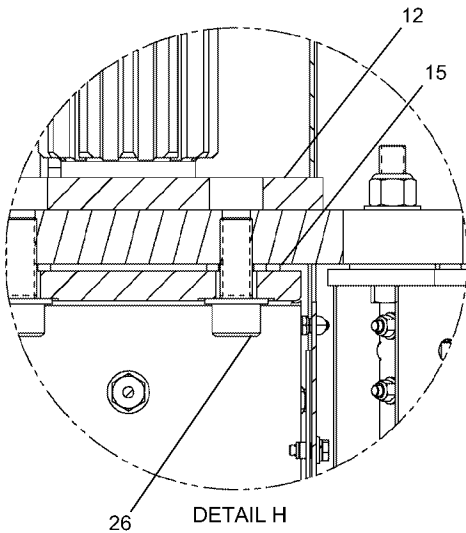
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**25**

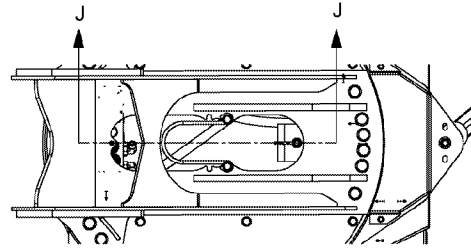




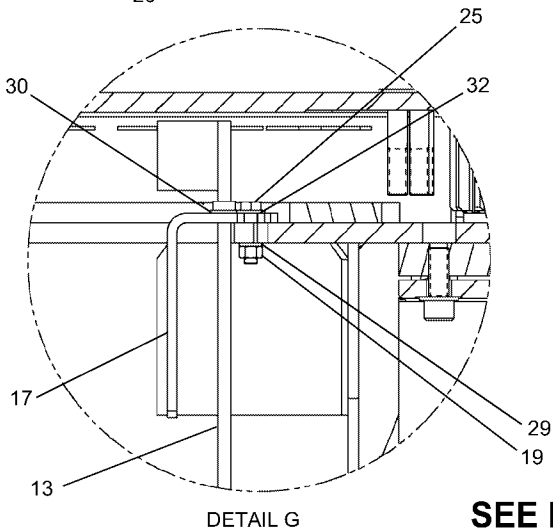
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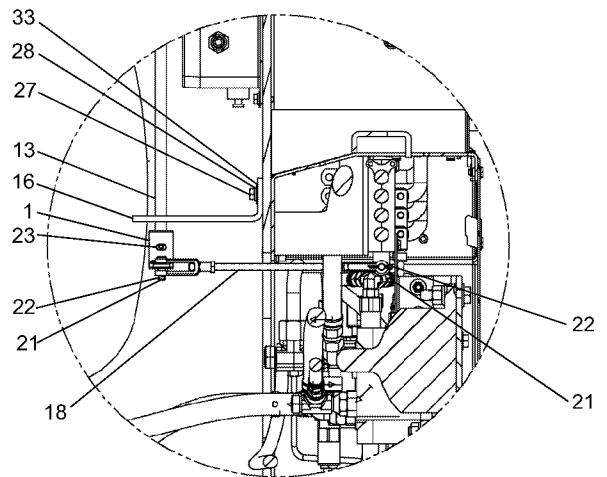
DETAIL H



SECTION J-J



DETAIL G



DETAIL F

**SEE PAGE 25.37**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

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GROUP

**25**

**SEE PAGES 25.34, 25.35 & 25.36**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01837-02	<i>Hydraulic Installation, Mainframe - Console (Items 1-33)</i>	
1	100-30028	Assembly, Control Link.....	1
2	12169-16	Flex Trim 3/8" x 18" Long .....	3
3	292-00049	Gearbox Assembly, Turret ROTAT .....	1
4	500-01836-04	Hydraulic Installation, Console .....	1
5	500-01844	Valve Sub-Assembly, Outrigger.....	1
6	502-30779	Hose, Swing-Drive .....	1
7	502-30780	Hose, Swing Valve-Drive.....	1
8	502-35082	Hose, Outrigger Return .....	1
9	502-35091	Hose Or PB-Boom .....	1
10	514-66004	Elbow 90 M#10 OFS X F#10 OFS .....	1
11	515-05005	45 Elbow #8 OFS X #10 ORB .....	2
12	695-00185	Mainframe-Console Assembly .....	REF
13	719-00480	Flag Weld, Swing Stop .....	1
14	770-02831	Bracket, Hose Guide .....	1
15	781-00336	Boss, 1.38 X 0.813 X 0.16 .....	4
16	785-01678	Support Angle, Swing Stop .....	1
17	789-06007	Arm, Collector Ring Stop.....	1
18	806-00245	Control Link Assembly .....	1
19	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5.....	2
20	NYL-500C000-25	Nut, HEX NYL-INS 0.50-13, ST Z G5 .....	2
21	P01-312XA00-PO	Pin, Clevis 0.3125X1.00, STL .....	2
22	P02-125X750-20	Pin, Cotter 0.125X0.75, ST Z .....	2
23	P22-188XA50-GP	Pin, Spring SL TD 0.1875X1.50, ST .....	1
24	P22-500XA50-G2	Pin, Spring SL TD 0.50X1.50, ST Z .....	1
25	S01-500CB00-25	Screw, HHCS 0.50-13X2.00, ST Z GR5 .....	4
26	S14-750CB00-H2	Screw, SHCS 0.75-10 X 2.00, ST Z .....	4
27	SHF-312C750-25	Screw, HHCS FT 0.312-18X0.75, STZ G5.....	2
28	W07-312X000-20	Washer, LCK, MED SPLT 0.3125, ST Z.....	2
29	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z .....	2
30	WAH-50NX000-Y2	Washer, FL HRD A-NRW 0.50, ST YZ.....	1
31	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	4
32	WAN-50NX000 - 20	Washer, FL TYPA-NRW 0.50, ST Z .....	8
33	WBR-31RX875 -20	Washer, FL TYPB-REG 0.3125, ST Z.....	2

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

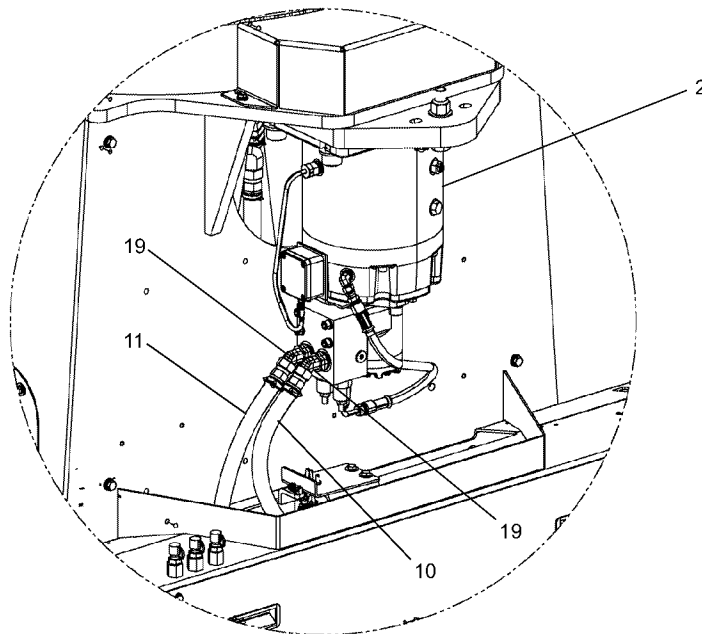
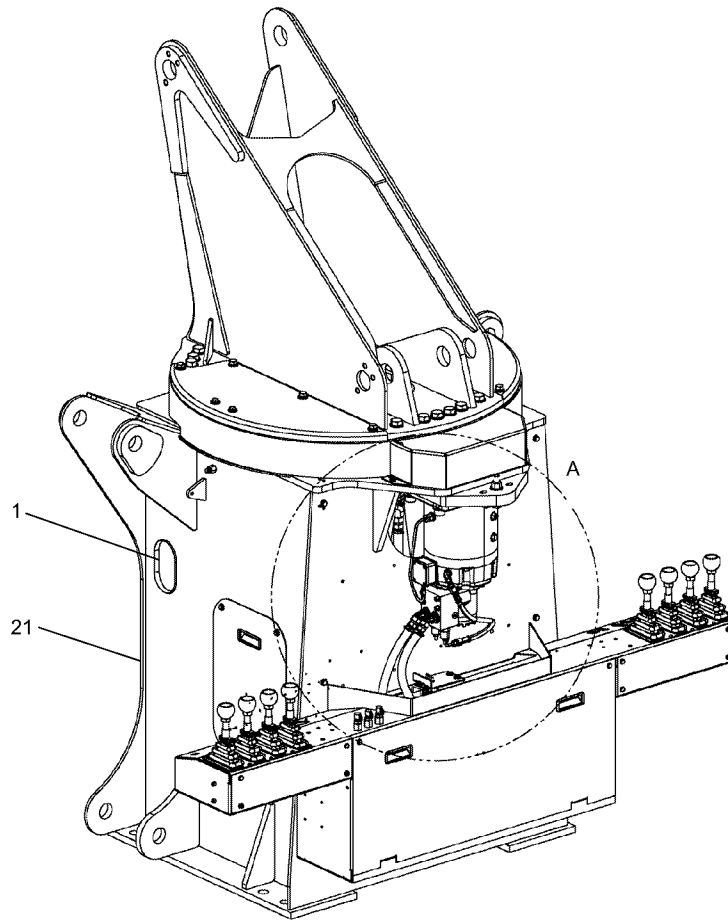
DATE: Revised 07-2009

MODEL: BT3870

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**GROUP**

**25**



DETAIL A

**SEE PAGE 25.43**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

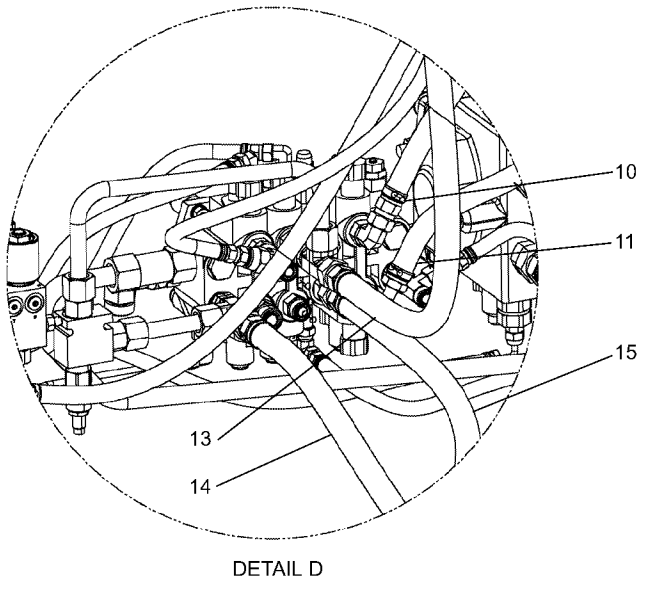
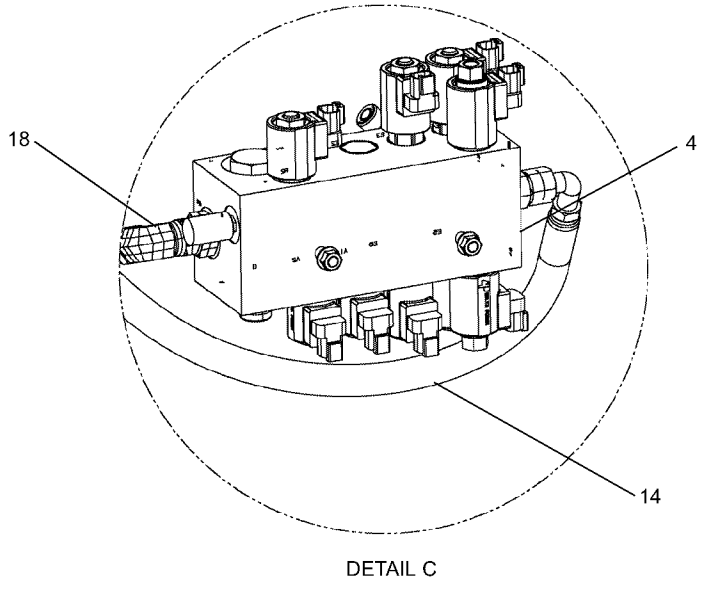
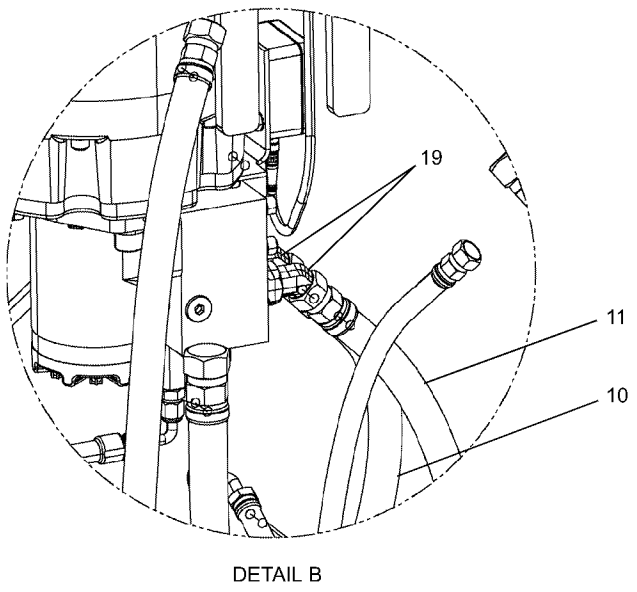
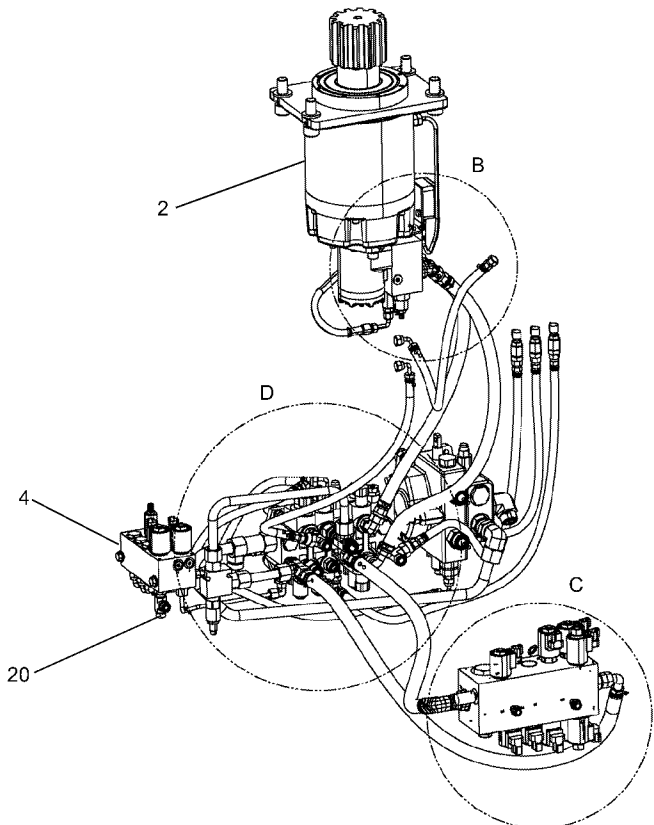
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.38

GROUP

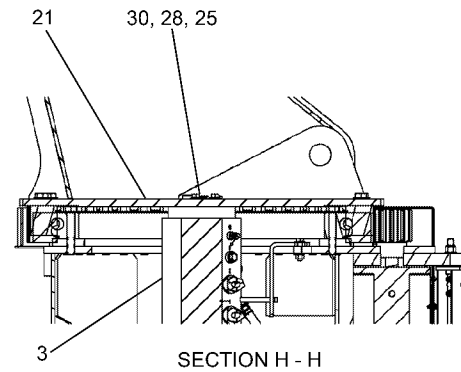
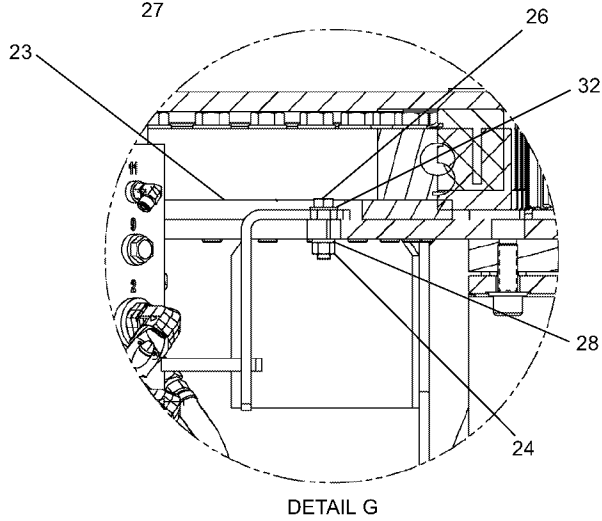
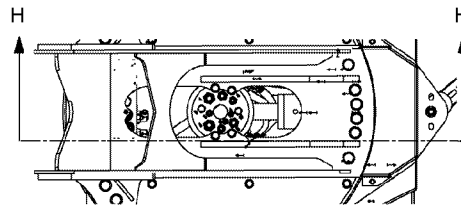
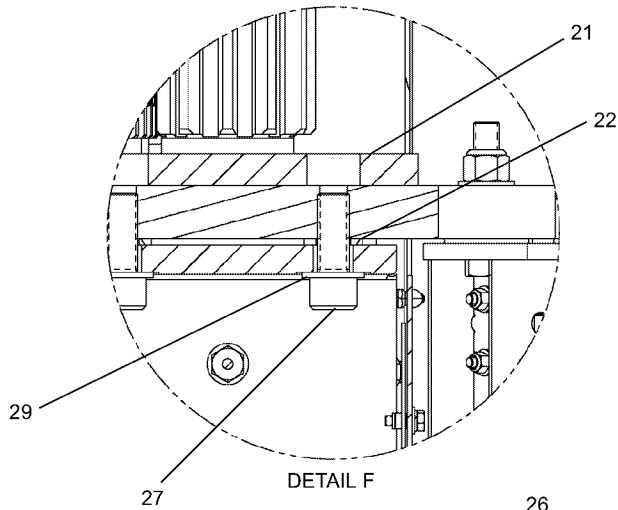
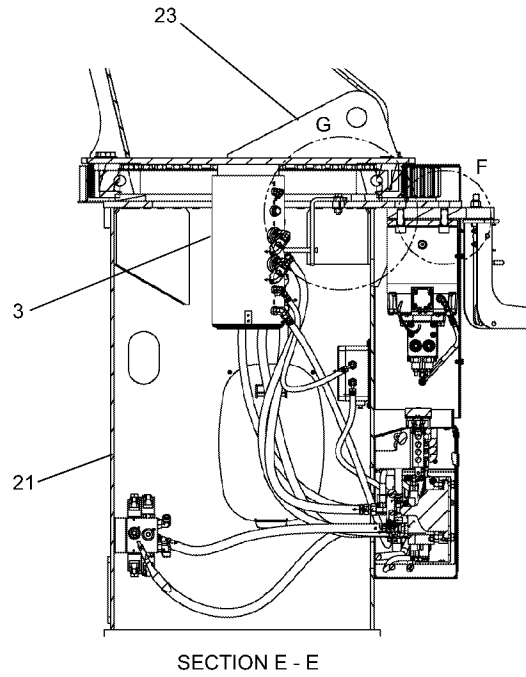
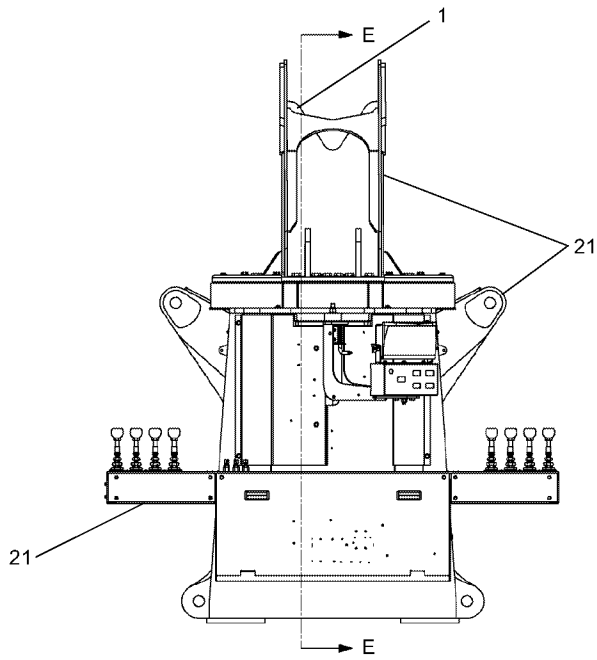
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**SEE PAGE 25.43**

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

	<p><b>HYDRAULIC INSTALLATION, MAINFRAME - CONSOLE</b></p>	DATE: Revised 07-2009	<p><b>GROUP 25</b></p>
		MODEL: BT3870	
		PAGE 25.39	



**SEE PAGE 25.43**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

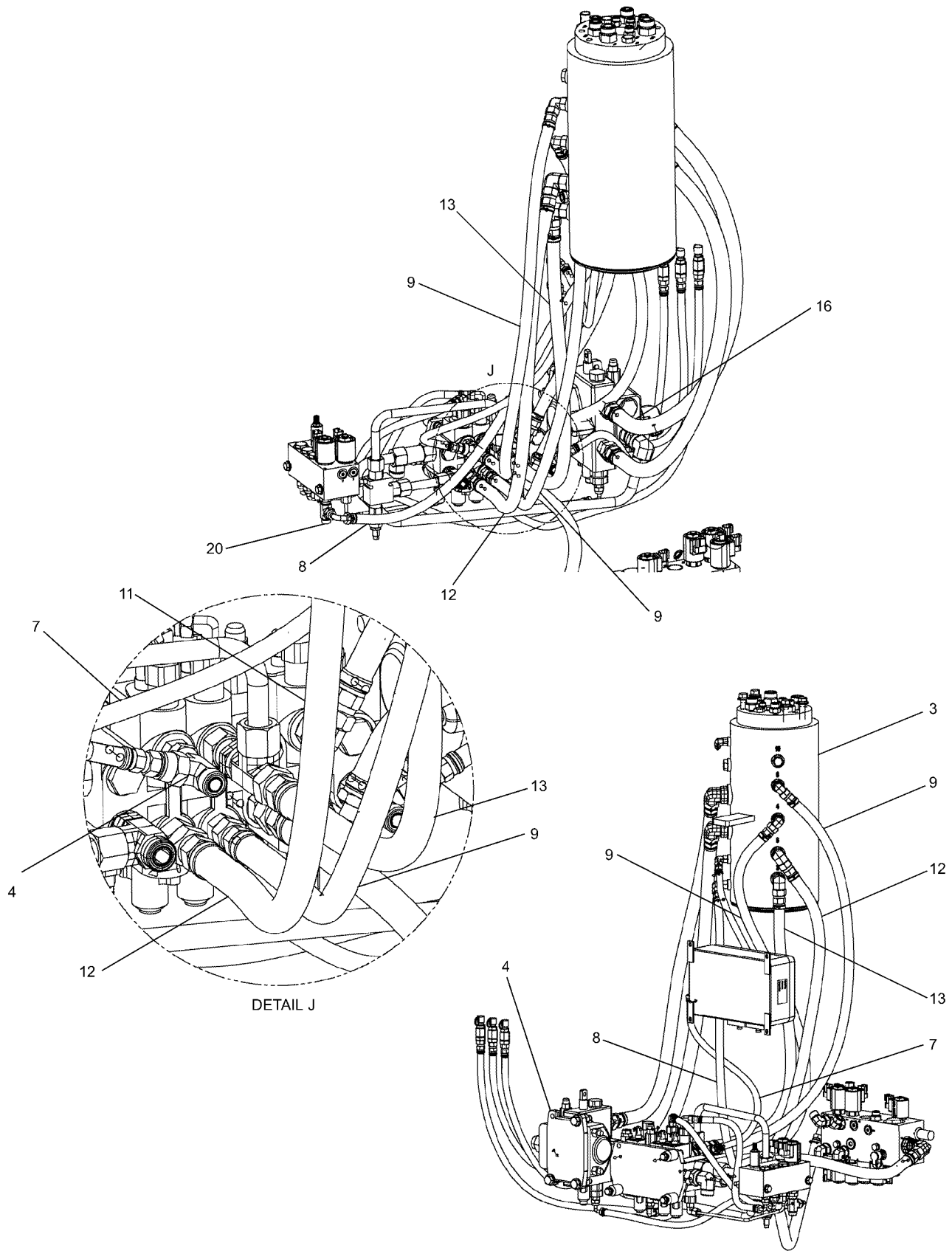
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.40

GROUP

**25**



SEE PAGE 25.43

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

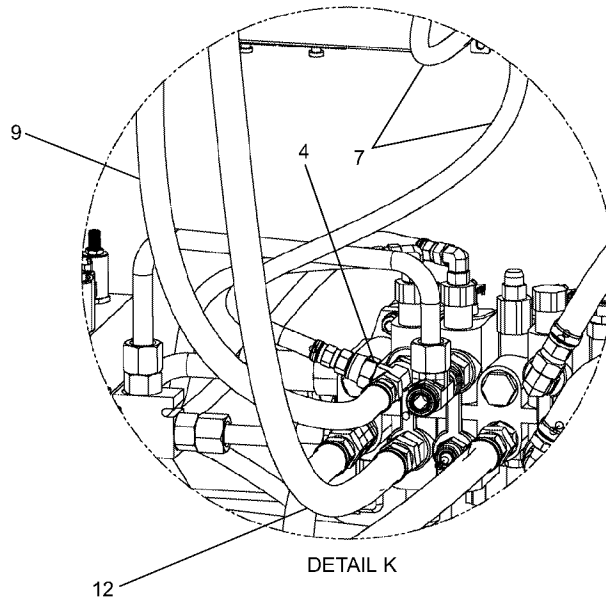
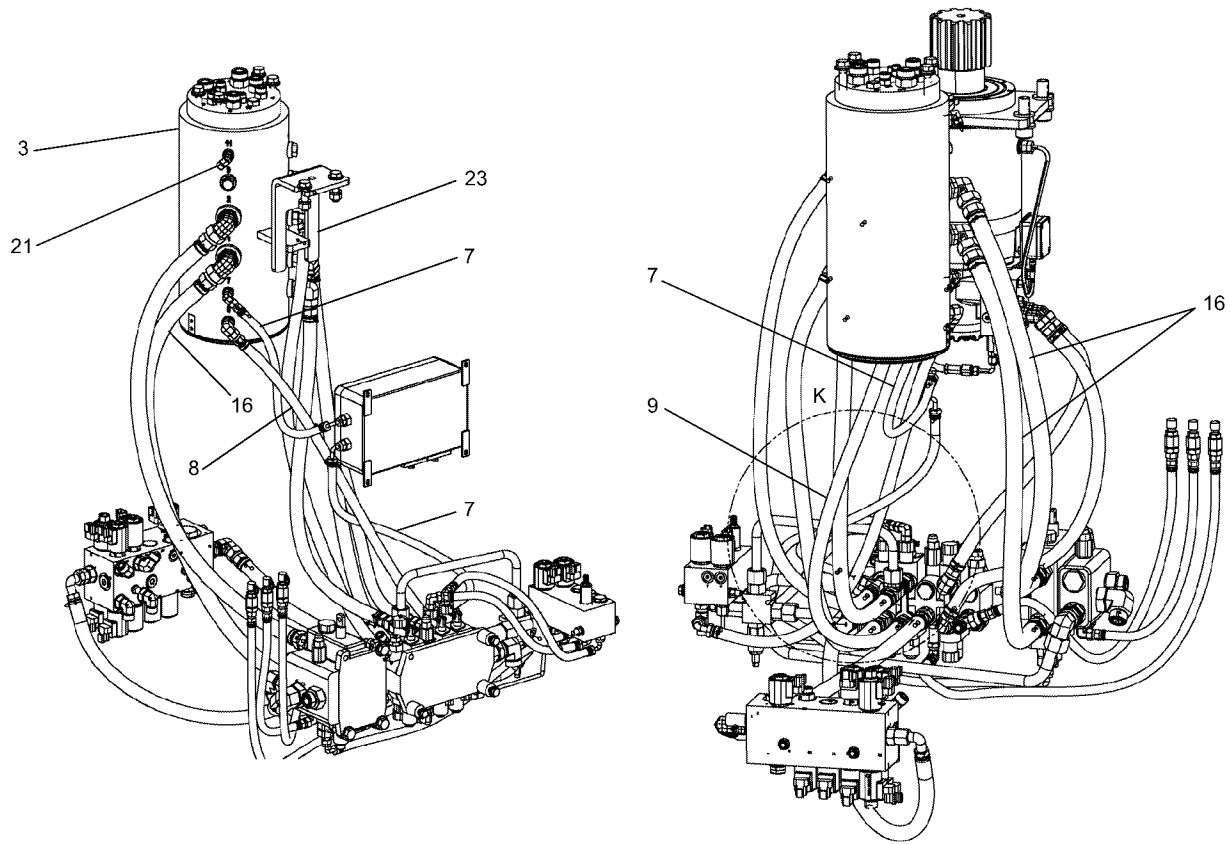
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.41

GROUP

**25**



**SEE PAGE 25.43**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.42

GROUP

**25**

**SEE PAGES 25.38, 25.39, 25.40, 25.41 & 25.42**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01837-03	<i>Hydraulic Installation, Mainframe - Console (Items 1-30)</i>	
1	12169-16	Flex Trim 3/8" x 18" Long .....	3
2	292-00049	Gearbox Assembly, Turret ROTAT .....	1
3	500-01832	Hydraulic Swivel Install .....	1
4	500-01836-01	Hydraulic Installation, Console .....	1
5	500-01843	Center Post Install CONT ROT .....	1
6	502-01844	Valve Subassembly, Outrigger .....	1
7	502-11351	Hose, RCI Topping Rod .....	2
8	502-21021	Hose, Winch MTR Drain, Lower .....	1
9	502-30775	Hose, BM TPNG RET. Lower .....	2
10	502-30779	Hose, Swing-Drive .....	1
11	502-30780	Hose, Swing Valve-Drive .....	1
12	502-35079	Hose, BM TPNG EXT. Lower .....	1
13	502-35081	Hose, BM TELE EXT. Lower .....	1
14	502-35082	Hose, Outrigger Return .....	1
15	502-35091	Hose OR PB-Boom .....	1
16	502-40999	Hose, Winch Lower .....	2
17	514-52003	Elbow 90 STD-M#4 OFS .....	1
18	514-66004	Elbow 90 M#10 OFS X F#10 OFS .....	1
19	515-05005	45 Elbow #8 OFS X #10 ORB .....	2
20	516-84003	Tee, Run 2X M#6 OFS X F#6 OFS .....	1
21	695-00185	Mainframe - Console Assembly .....	REF
22	781-00336	Boss, 1.38 X 0.813 X 0.16 .....	4
23	789-06007	Arm, Collector Ring Stop .....	1
24	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5 .....	2
25	S01-500CA75-25	Screw, HHCS 0.50-13X1.75, ST Z GR5 .....	4
26	S01-500CB00-25	Screw, HHCS 0.50-13X2.00, ST Z GR5 .....	2
27	S14-750CB00-H2	Screw, SHCS 0.75-10 X 2.00, ST Z .....	4
28	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z .....	6
29	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ .....	4
30	WAN-50NX000-20	Washer, FL TYPA-NRW 0.50, ST Z .....	6

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

DATE: Revised 07-2009

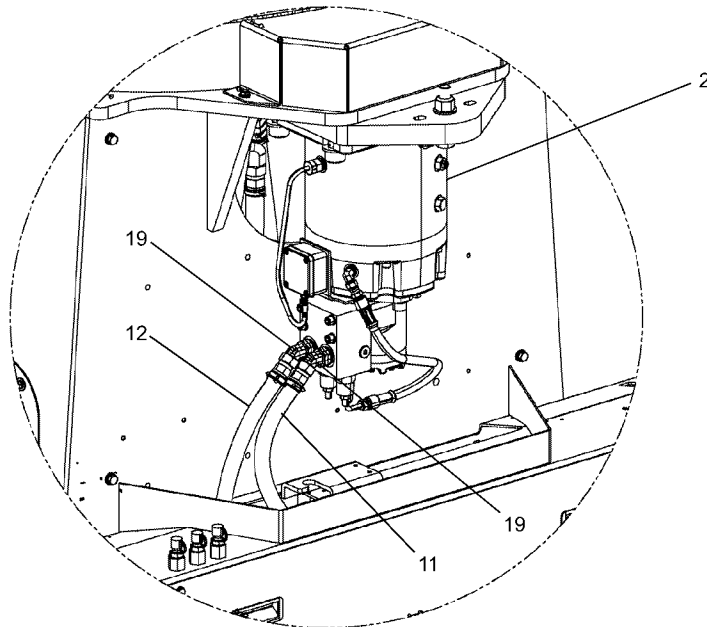
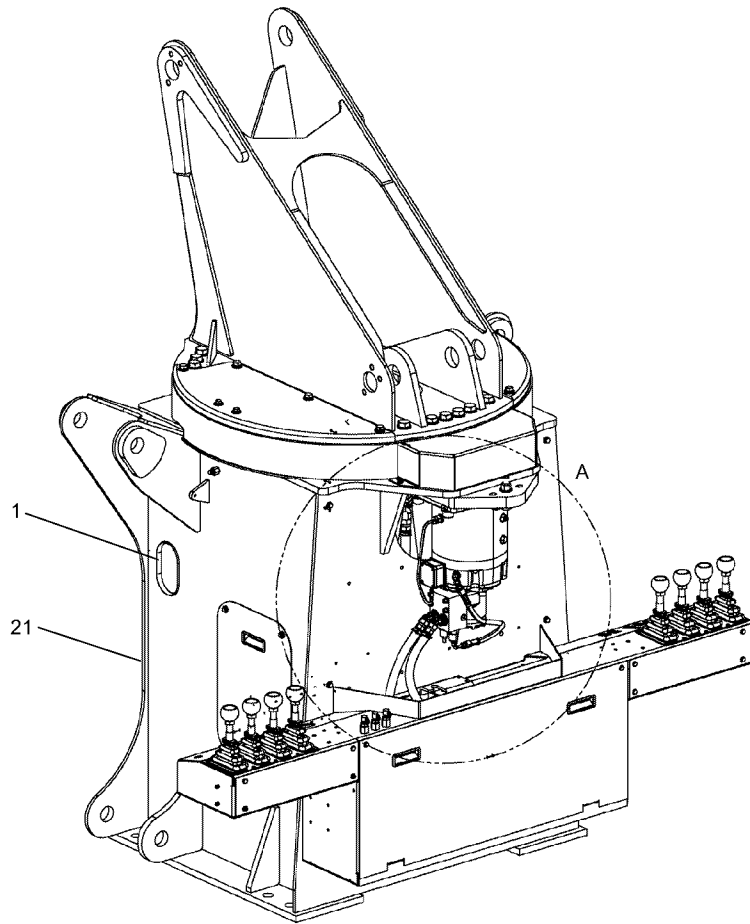
MODEL: BT3870

PAGE 25.43

**GROUP**

**25**





DETAIL A

**SEE PAGE 25.49**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

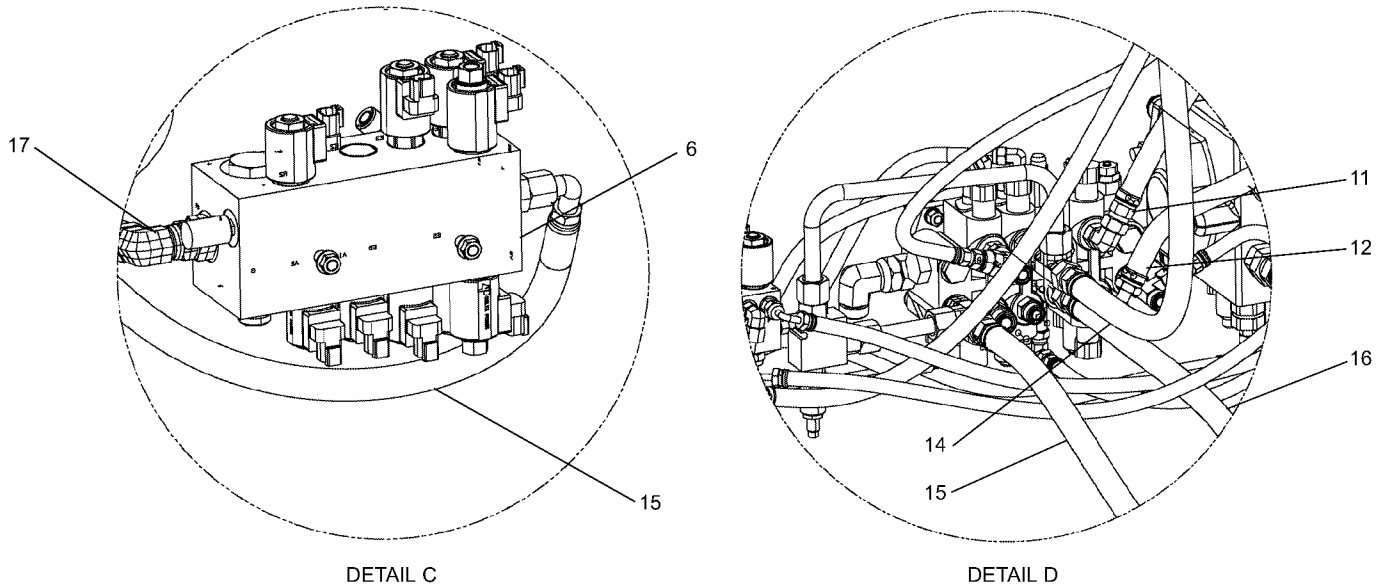
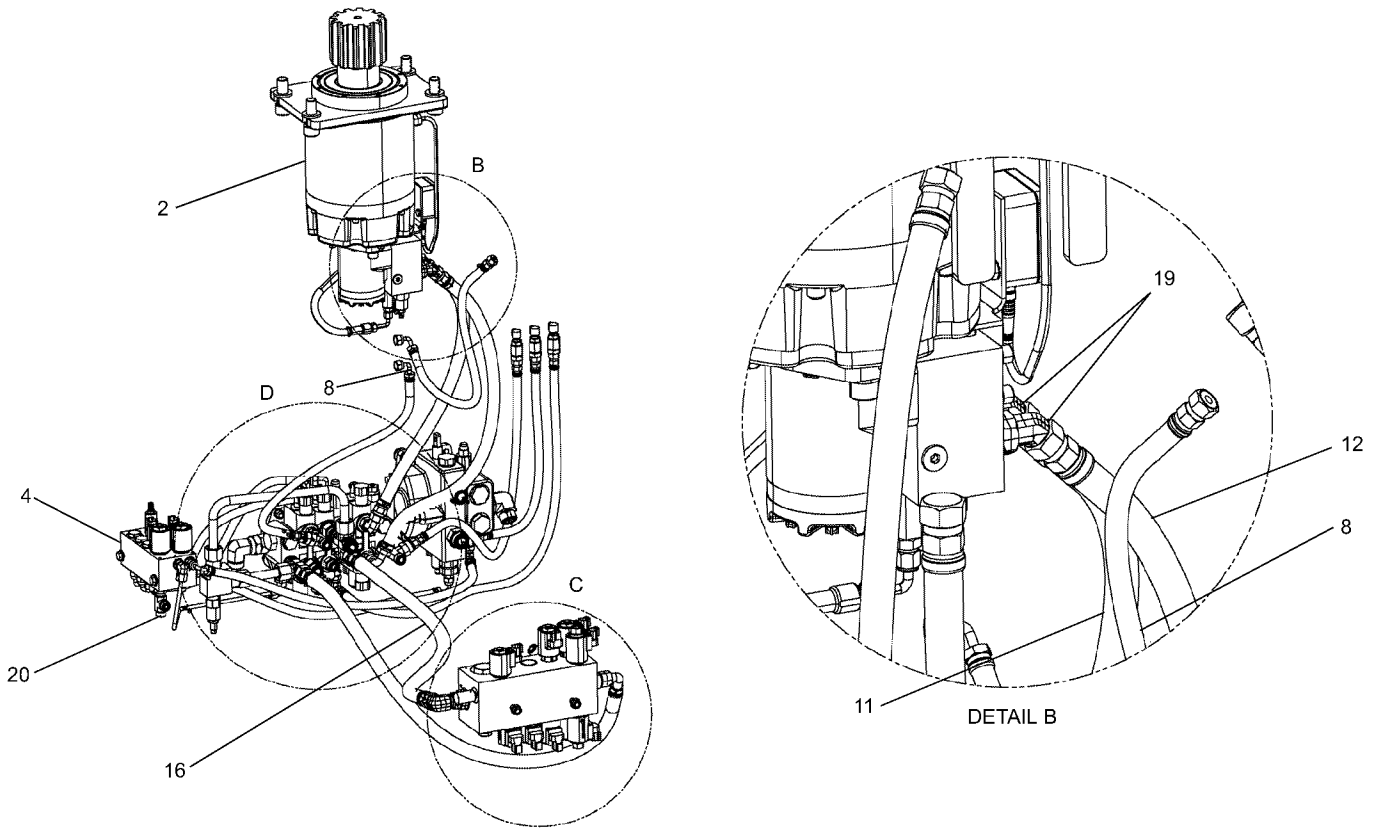
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**25**



SEE PAGE 25.49

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

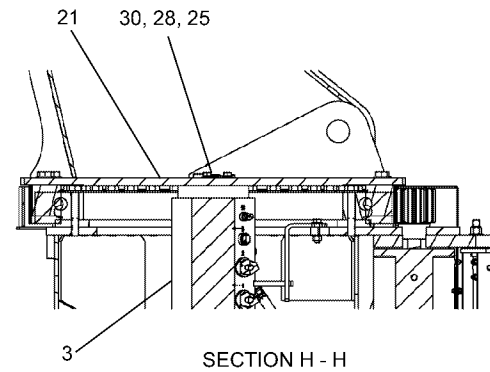
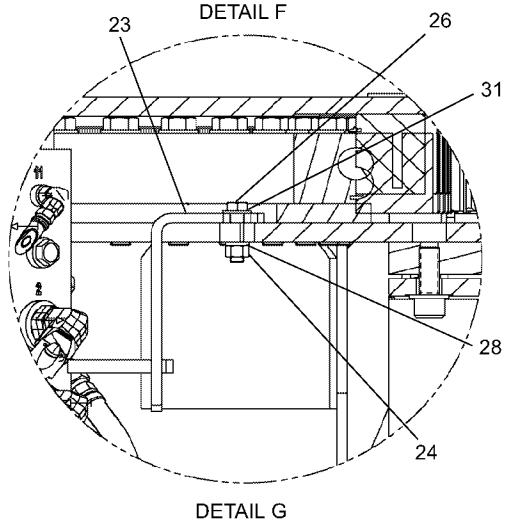
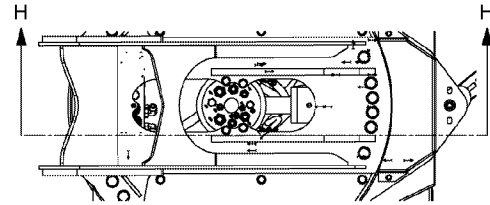
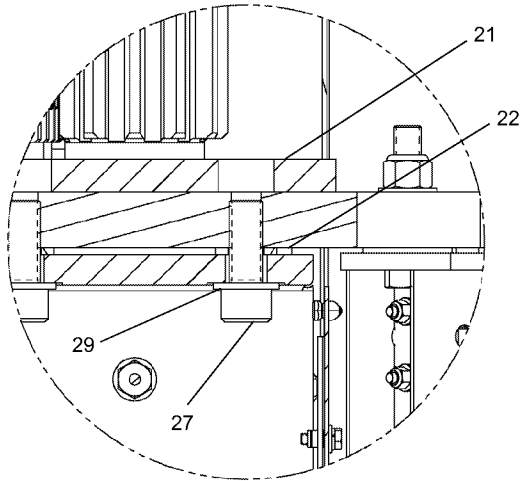
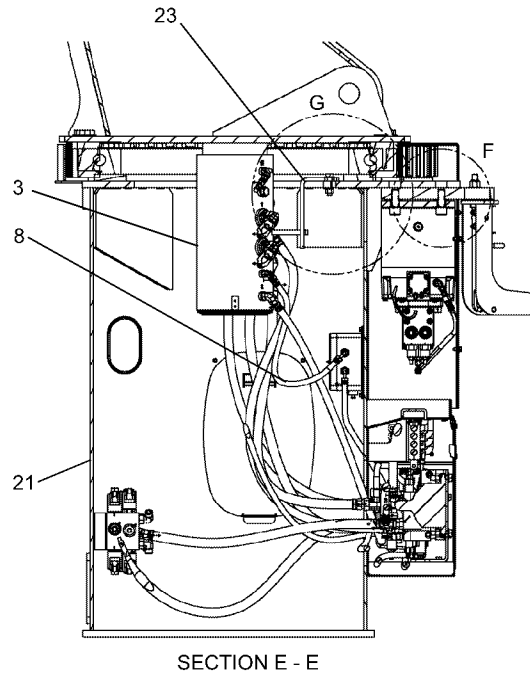
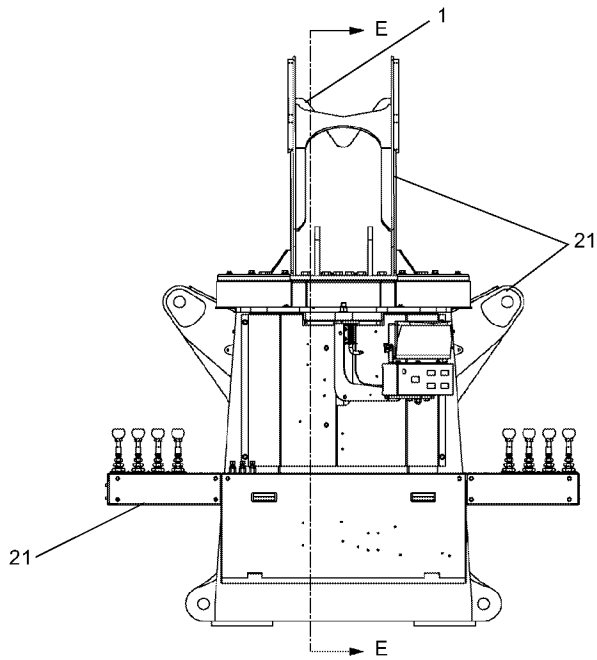
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**25**



**SEE PAGE 25.49**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

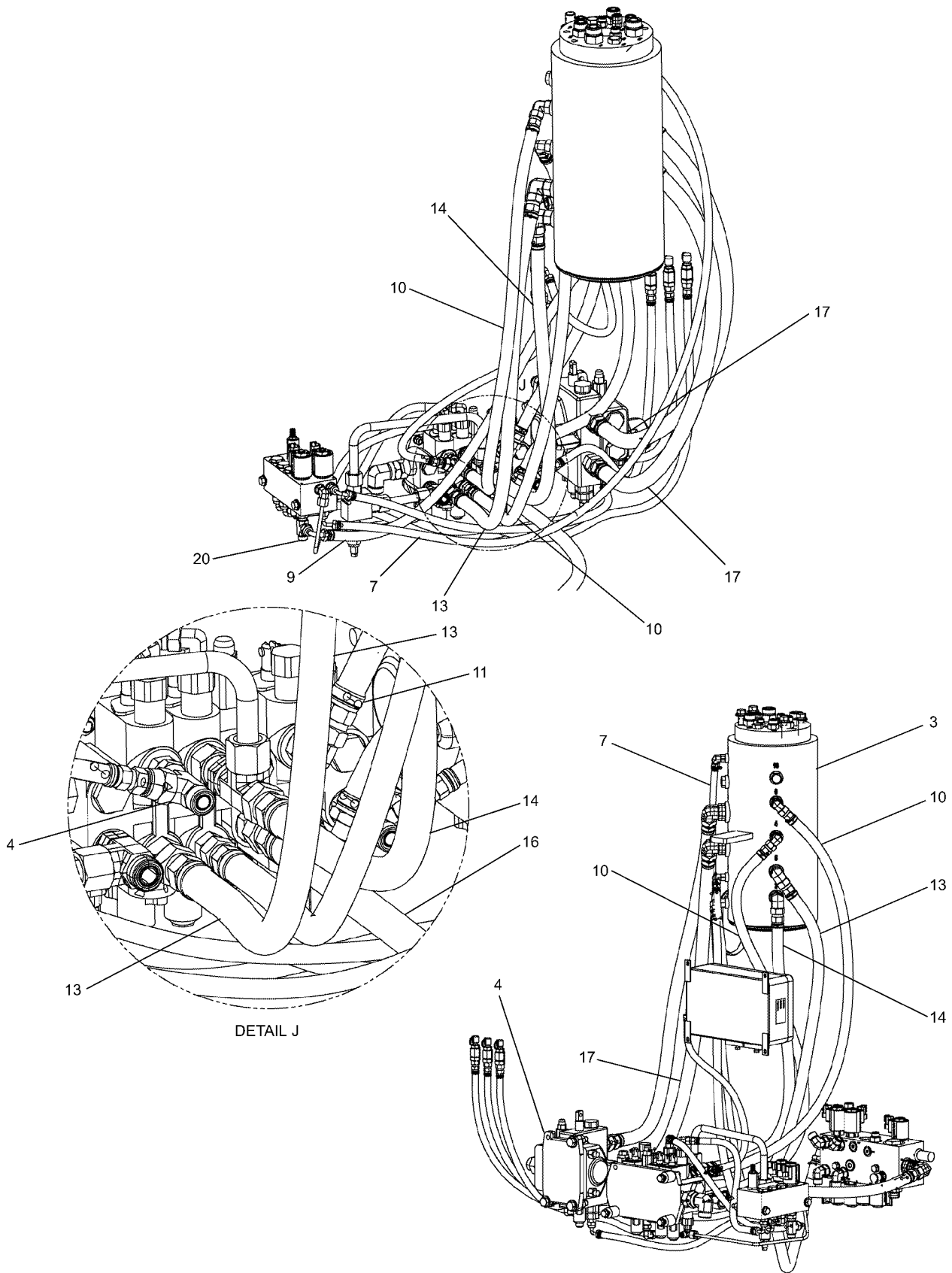
DATE: Revised 07-2009

MODEL: BT3870

PAGE 25.46

GROUP

**25**



**SEE PAGE 25.49**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

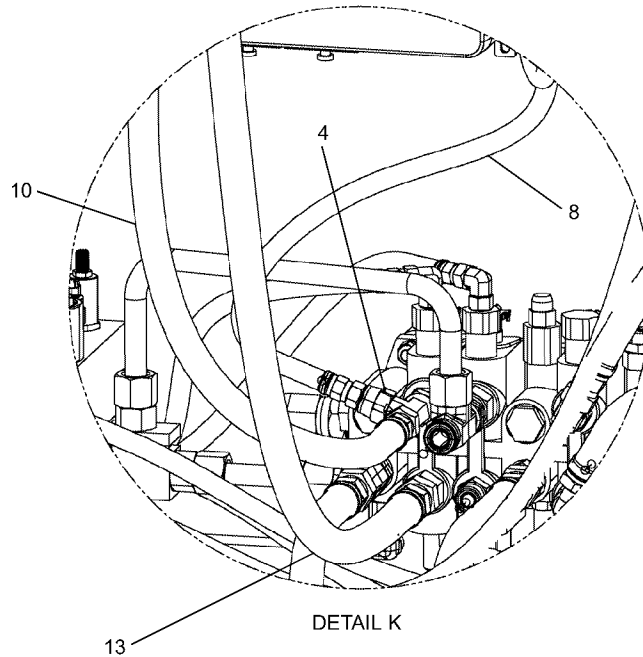
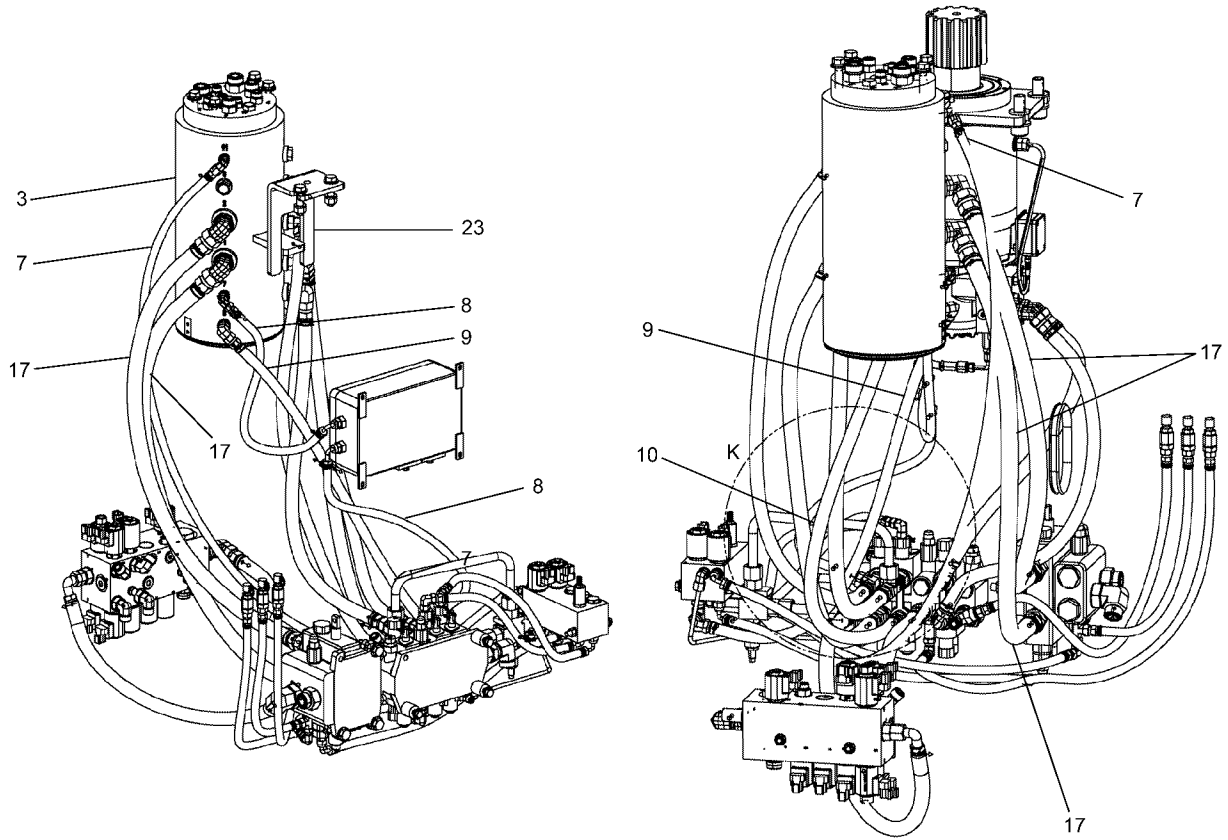
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**25**



**SEE PAGE 25.49**

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



**HYDRAULIC INSTALLATION,  
MAINFRAME - CONSOLE**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

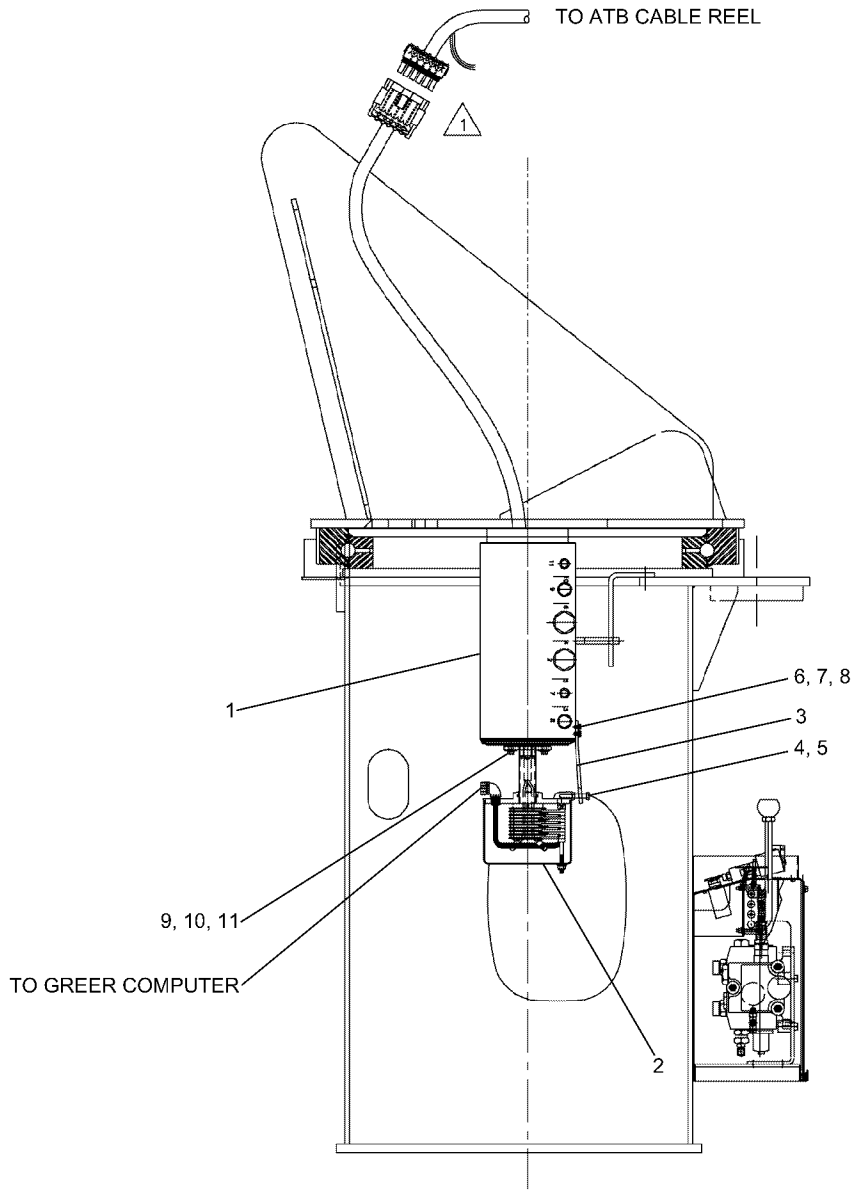
**25**

**SEE PAGES 25.44, 25.45, 25.46, 25.47 & 25.48**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01837-04	<i>Hydraulic Installation, Mainframe - Console (Items 1-30)</i>	
1	12169-16	Flex Trim 3/8" x 18" Long .....	3
2	292-00049	Gearbox Assembly, Turret ROTAT .....	1
3	500-01832	Hydraulic Swivel Install .....	1
4	500-01836-04	Hydraulic Installation, Console .....	1
5	500-01843	Center Post Install CONT ROT .....	1
6	502-01844	Valve Subassembly, Outrigger .....	1
7	502-11342	Hose, Motor Shift Control, Low .....	1
8	502-11351	Hose, RCI Topping Rod .....	2
9	502-21021	Hose, Winch MTR Drain, Lower .....	1
10	502-30775	Hose, BM TPNG RET. Lower .....	2
11	502-30779	Hose, Swing-Drive .....	1
12	502-30780	Hose, Swing Valve-Drive .....	1
13	502-35079	Hose, BM TPNG EXT. Lower .....	1
14	502-35081	Hose, BM TELE EXT. Lower .....	1
15	502-35082	Hose, Outrigger Return .....	1
16	502-35091	Hose OR PB-Boom .....	1
17	502-40999	Hose, Winch Lower .....	2
18	514-66004	Elbow 90 M#10 OFS X F#10 OFS .....	1
19	515-05005	45 Elbow #8 OFS X #10 ORB .....	2
20	516-84003	Tee, Run 2X M#6 OFS X F#6 OFS .....	1
21	695-00185	Mainframe - Console Assembly .....	REF
22	781-00336	Boss, 1.38 X 0.813 X 0.16 .....	4
23	789-06007	Arm, Collector Ring Stop .....	1
24	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5 .....	2
25	S01-500CA75-25	Screw, HHCS 0.50-13X1.75, ST Z GR5 .....	4
26	S01-500CB00-25	Screw, HHCS 0.50-13X2.00, ST Z GR5 .....	2
27	S14-750CB00-H2	Screw, SHCS 0.75-10 X 2.00, ST Z .....	4
28	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z .....	6
29	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ .....	4
30	WAN-50NX000-20	Washer, FL TYP A-NRW 0.50, ST Z .....	6

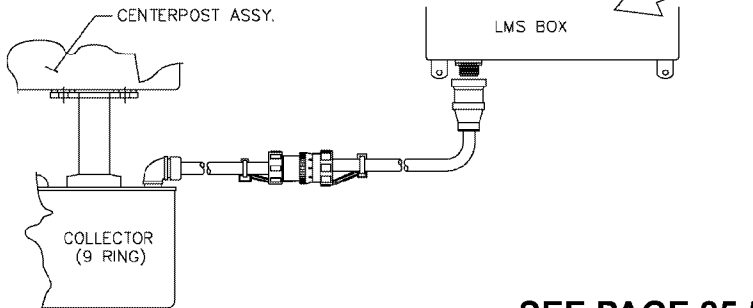
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	<b>HYDRAULIC INSTALLATION, MAINFRAME - CONSOLE</b>	DATE: Revised 07-2009	<b>GROUP 25</b>
		MODEL: BT3870	
		PAGE 25.49	



**NOTES FOR GREER WIRING :**

1 RUN UPPER COLLECTOR RING HARNESS WITH SOCKETS ONLY ATTACHED UP THROUGH CENTERPOST CENTER OPENING. THEN INSERT SOCKETS INTO CONNECTOR PLUG/ STRAIN RELIEF ASSEMBLY. USE WIRING CODE SHOWN FOR CORRECT PLUG INSTALLATION.



H	*	9 GRN/BLK	NOT USED
G	NOT USED	8 RED/BLK	NOT USED
F	SHIELD	7 WHT/BLK	REEL GROUND
E	BLUE	6 BLUE	BATTERY GROUND
D	RED	5 GREEN	POS SUPPLY
C	BROWN	4 ORANGE	ATB SIGNAL
B	GREEN	3 RED	ANGLE SIGNAL
A	WHITE	2 BLACK	LENGTH SIGNAL
	BLACK	1 WHITE	ATB - FEED
PIN	WIRE COLOR	COLLECTOR RING#	FUNCTION
REEL FEEDER PLUG			
GREER CABLE REEL/COLLECTOR RING WIRING CODE			

\* EXTRA REEL WIRES ORG & YEL NOT USED

**SEE PAGE 25.52**

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



**CENTER POST INSTALL  
CONTINUOUS ROTATION**

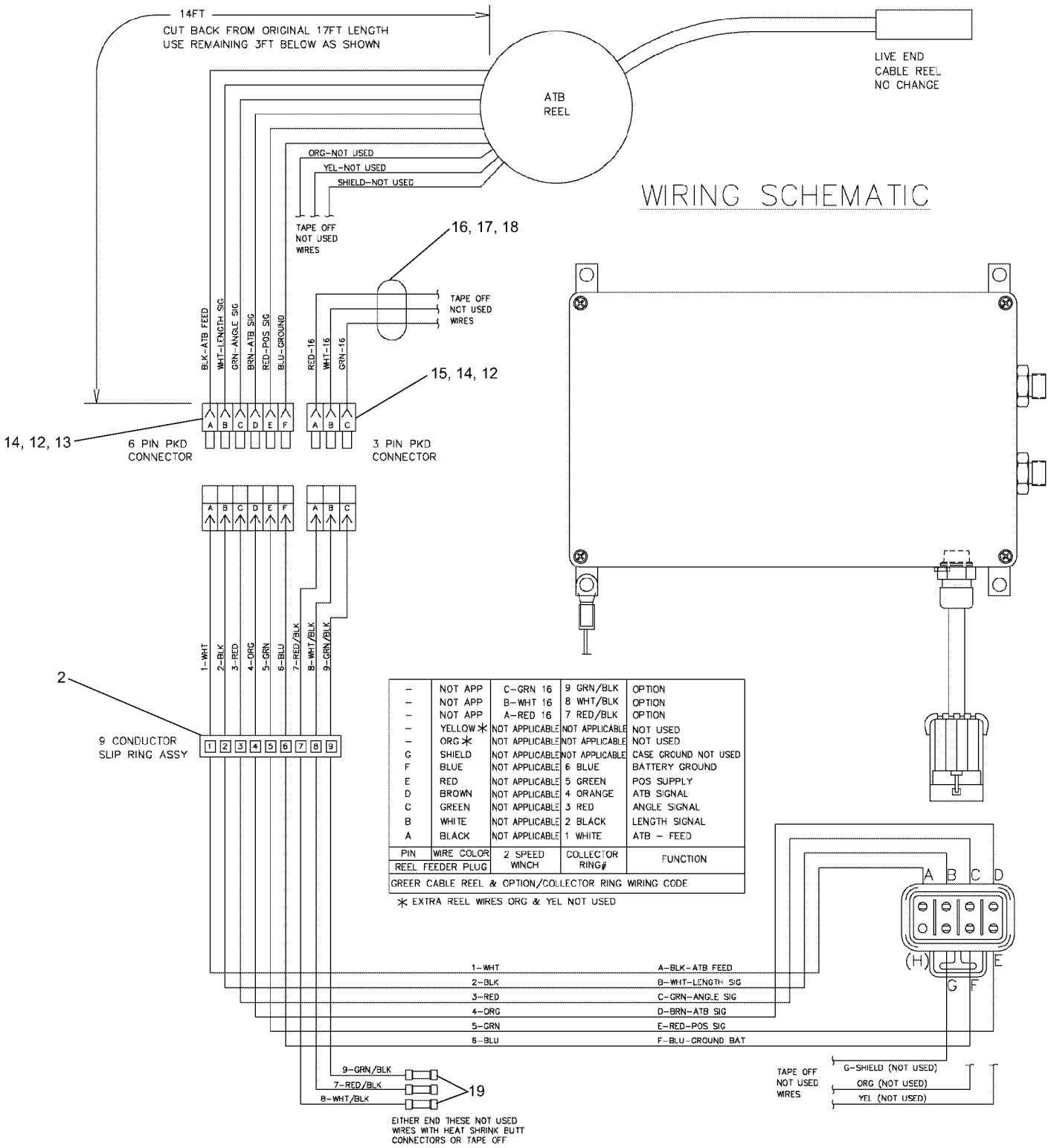
DATE: Revised 07-2009

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GROUP

**25**



SEE PAGE 25.52

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



CENTER POST INSTALL  
CONTINUOUS ROTATION

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GROUP

25



**SEE PAGES 25.50, 25.51**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01843	<i>Center Post Install CONT. ROT. (Items 1-19)</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	Flatwasher .38 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 INSTALL  
CONTINUOUS ROTATION**

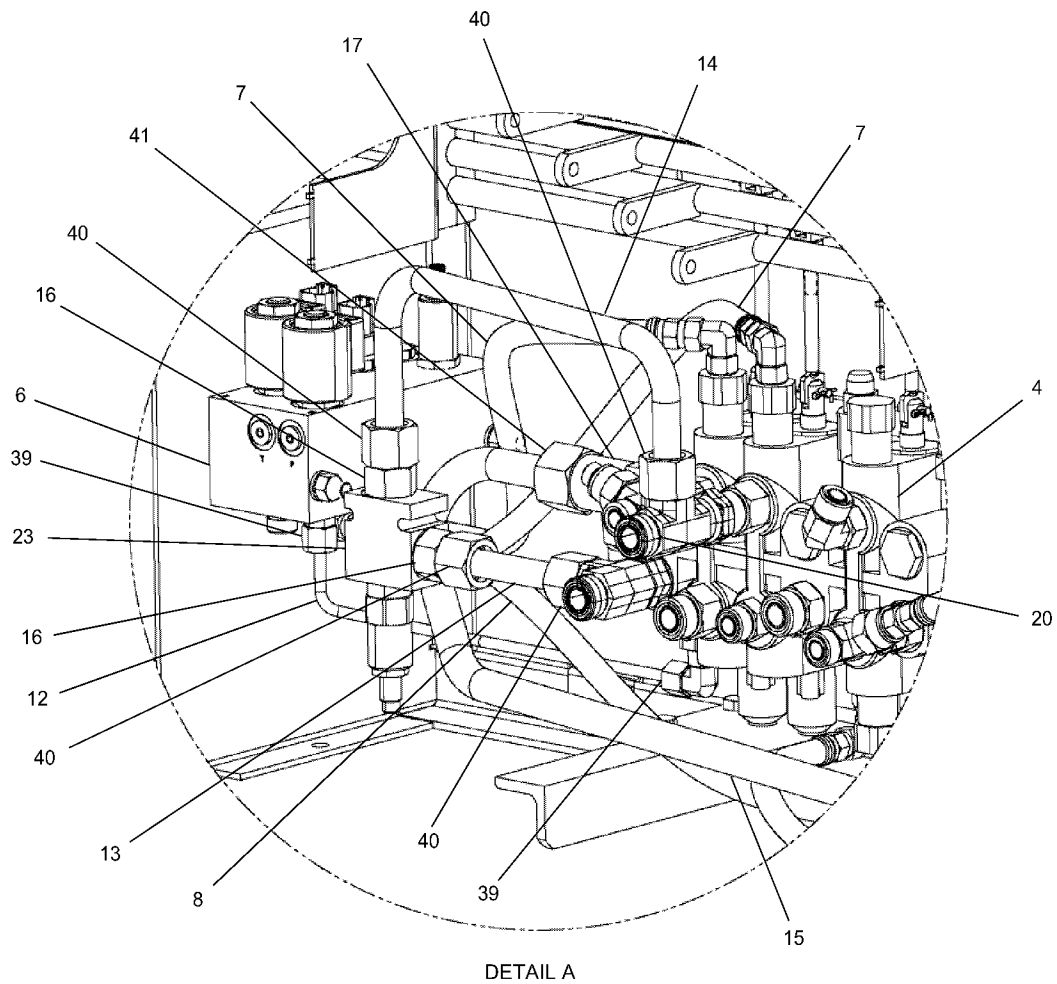
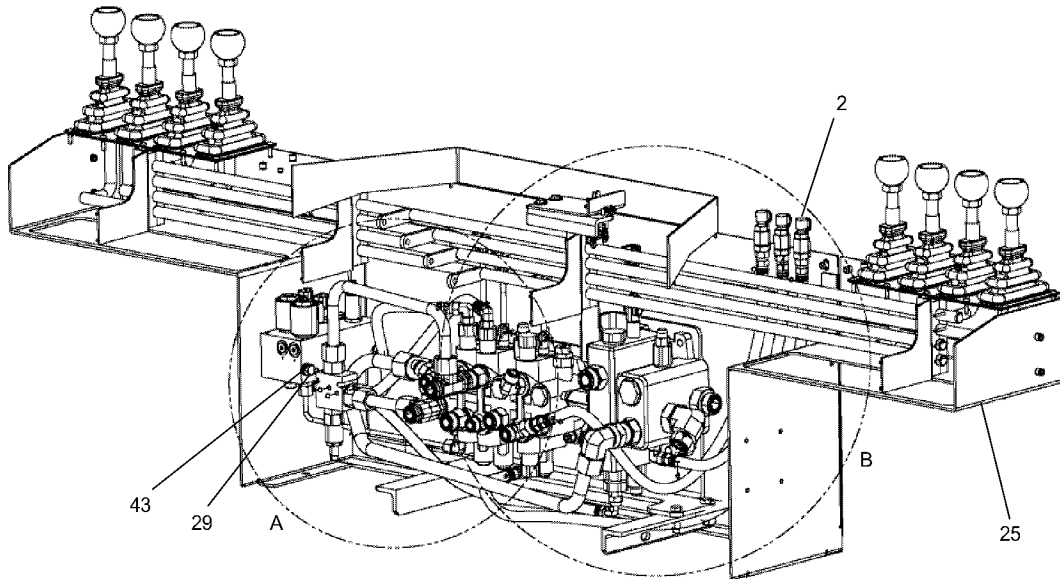
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**25**



**SEE PAGE 28.3**

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



**CONTROL CONSOLE ASSEMBLY**  
 Continuous Rotation and Non Continuous  
 Combined Flow

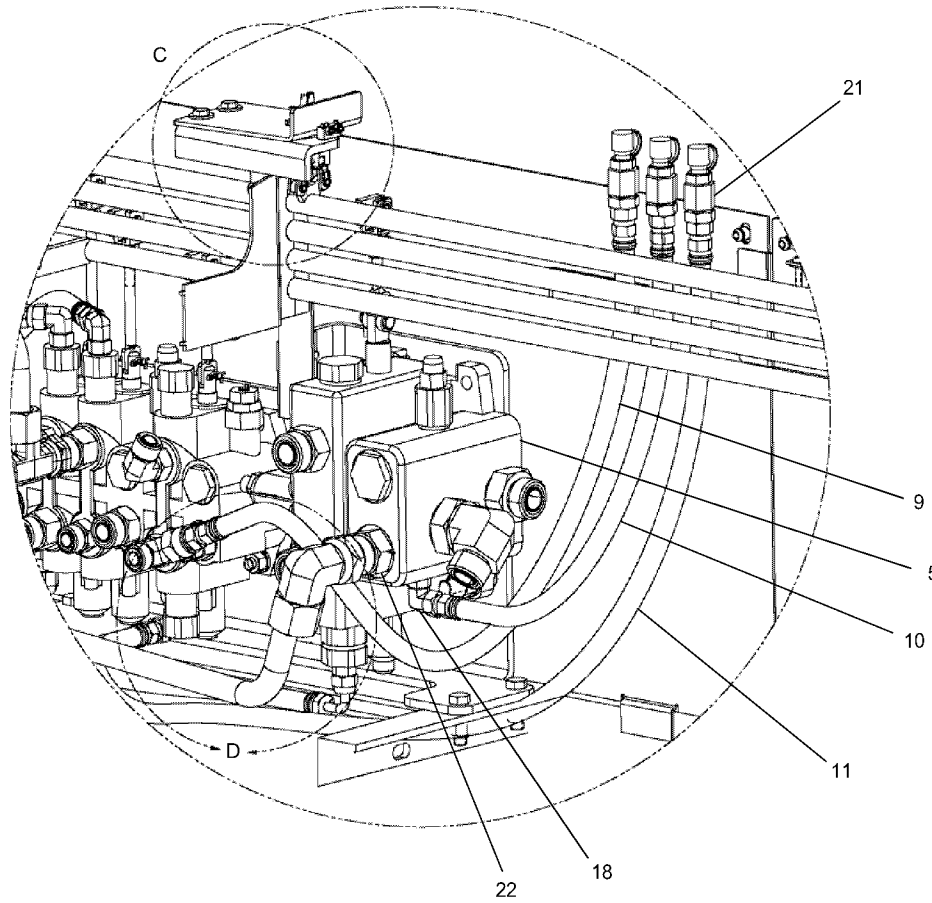
DATE: Revised 07-2009

MODEL: BT3870

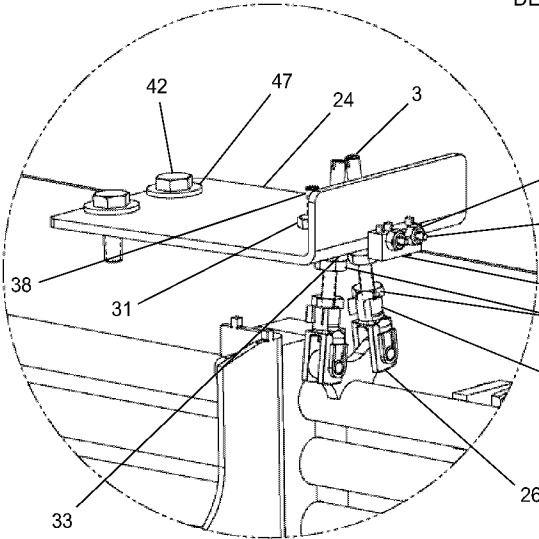
PAGE 28.1

GROUP

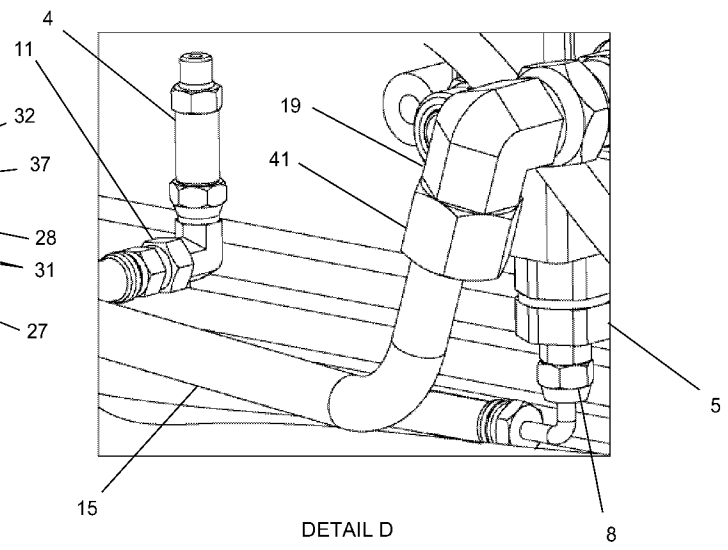
**28**



DETAIL B



DETAIL C

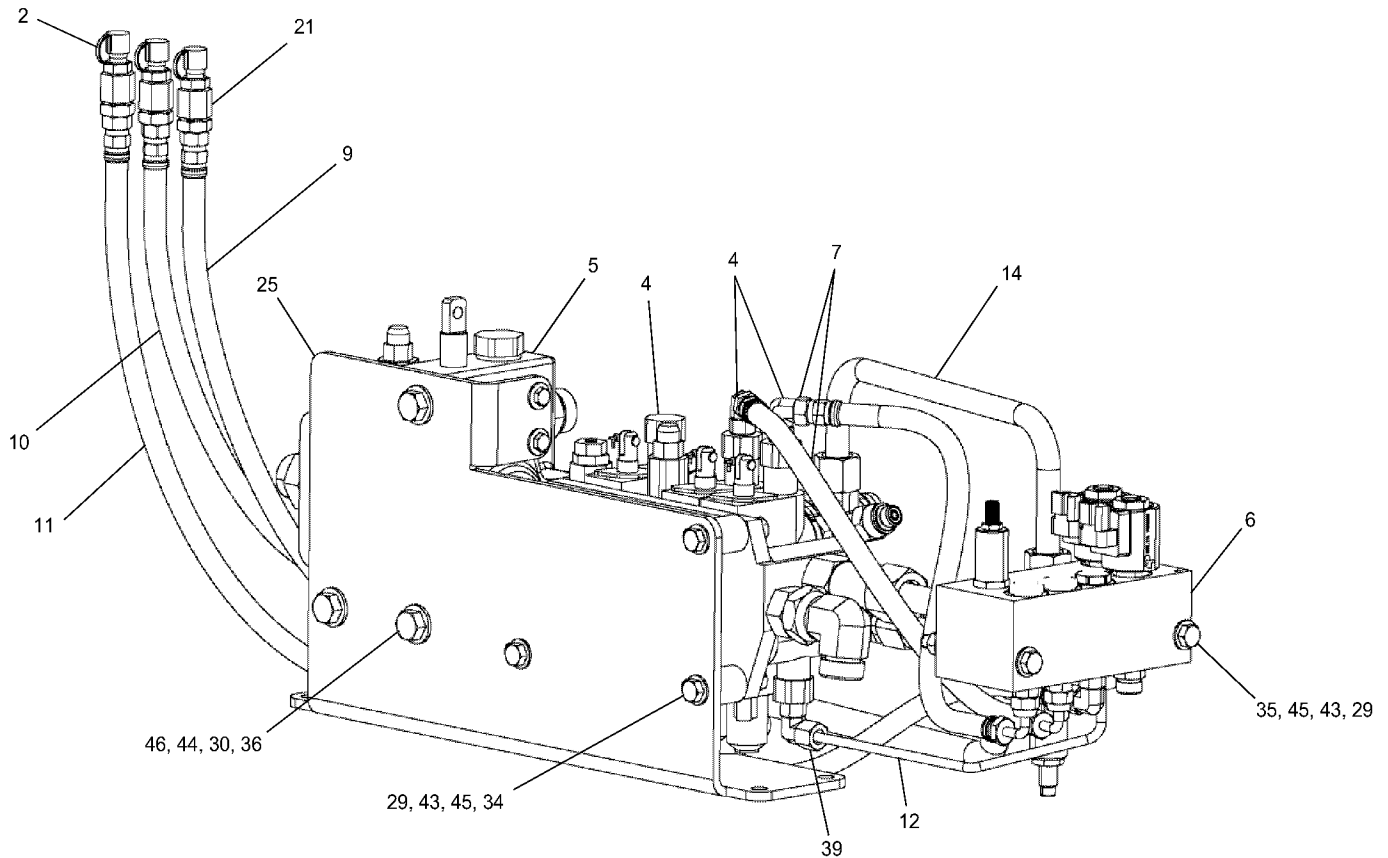


DETAIL D

**SEE PAGE 28.3**

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

	<b>CONTROL CONSOLE ASSEMBLY</b> Continuous Rotation and Non Continuous Combined Flow	DATE: Revised 07-2009	<b>GROUP</b> <b>28</b>
		MODEL: BT3870	
		PAGE 28.2	

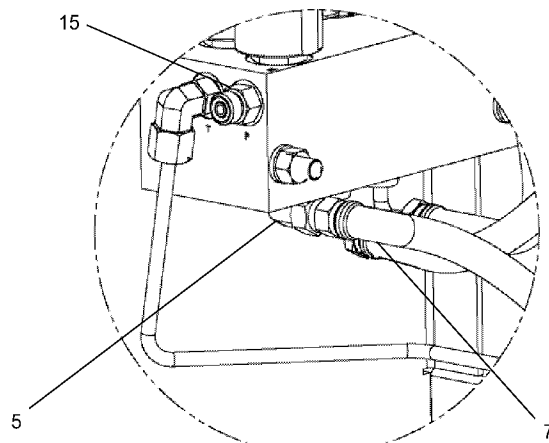
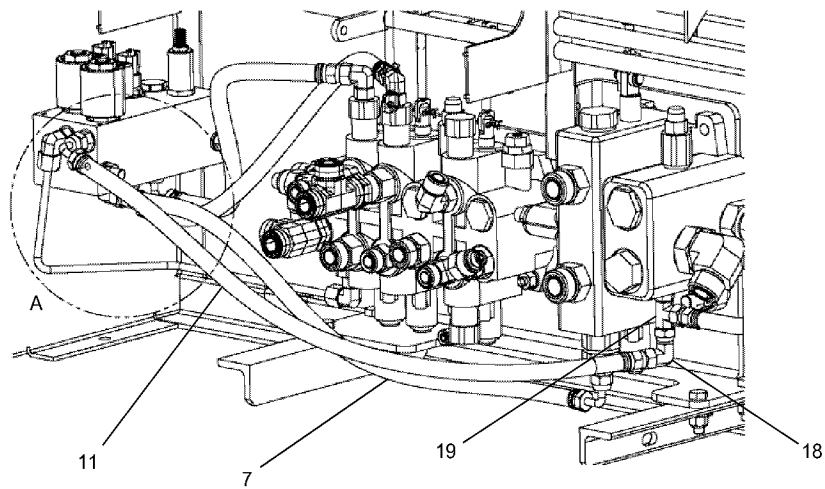
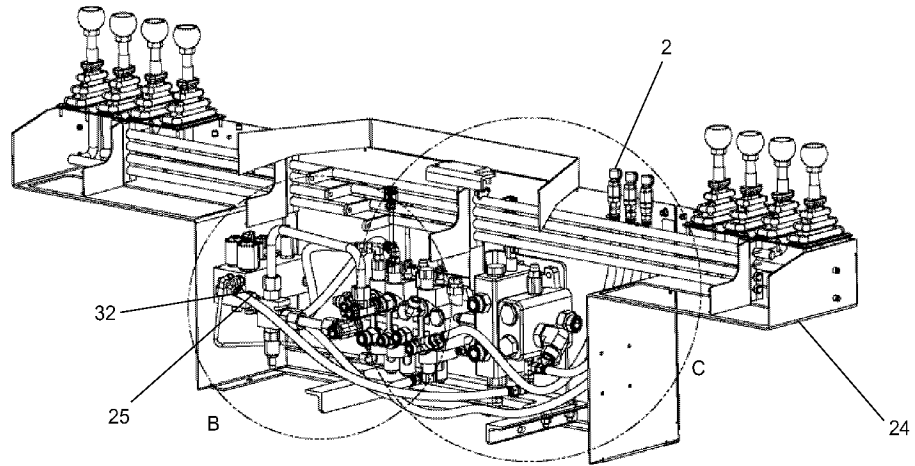


**SEE PAGES 28.1, 28.2**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	500-01836-01	Hydraulic Installation, Console (Items 1-47)					
1	001-20057	Spacer, CYL 0.406 X 1.00 X 1.00	3	27	809-00509	Clevis Bracket Weldment 0.1875	2
2	12019-558	Dust Cap	3	28	MS25085-1	Micro Switch-Harness	REF
3	229-00028	Stud, SLTD 10-32 X 2.44	2	29	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	5
4	500-01826	Valve Assembly	1	30	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5	3
5	500-01827	Valve Subassembly, Winch	1	31	N23-190F000-20	Nut, HEX, MACH 10-32, ST Z	5
6	500-01828	Valve Assembly, LMI	1	32	NYL-086C000-22	Nut, HEX NYL - INS 02-56, ST Z G2	2
7	502-11325	Hose, LMI -Boom Topping	2	33	NYL-190F000-22	Nut, HEX NYL - INS 10-32, ST Z G2	2
8	502-11327	Hose, LMI Winch Raise Unloading	1	34	S01-375CB50-25	Screw, HHCS 0.375-16X2.50, ST Z GR5	3
9	502-11330	Hose, Swing Test Port	1	35	S01-375CD00-25	Screw, HHCS 0.375-16X4.00, ST Z GR5	2
10	502-11331	Hose, Winch Test Port	1	36	S01-500CB00-25	Screw, HHCS 0.50-13X2.00, ST Z GR5	3
11	502-11332	Hose, Main Valve Test Port	1	37	S14-086C625-HB	Screw, SHCS 02-56 X 0.625, ST BX	2
12	510-20463	Tube, PB Unload, 0.25 DIA	1	38	S42-190F750-BX	Screw, SSS OV 10-32X0.75, ST BLKX	1
13	510-60022	Tube, Tele Relief, 0.625 DIA	1	39	SAE520110-04	Nut, HEX, Tubenut 04	REF
14	510-60023	Tube, Tele Relief, 0.625 DIA	1	40	SAE520110-10	Nut, HEX, Tubenut 10	REF
15	510-70847	Tube, Power Beyond	1	41	SAE520110-12	Nut, HEX, Tubenut 12	REF
16	513-60012	CONN, -10 OFS X -8 ORB (ATS)	2	42	SHF-250C750-25	Screw, HHCS FT 0.25-20X0.75, ST Z G5	2
17	513-70040	STR CONN M#12 OFS X M#12 ORB	1	43	W07-375X000-20	Washer, LCK, MED SPLT 0.375, ST Z	5
18	514-52003	Elbow 90 STD-M#4 OFS	2	44	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z	3
19	514-67004	Elbow Swivel 90 P#12C6LO-S	1	45	WAN-37NX000-20	Washer, FL TYPA-NRW 0.375, ST Z	5
20	516-86002	Swivel Run Tee - 10 - 10 - 10	1	46	WAN-50NX000-20	Washer, FL TYPA-NRW 0.50, ST Z	3
21	518-20013	Parker # PD 346	3	47	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z	2
22	552-10287	Check Valve	1				
23	559-00262	Valve, Relief	1				
24	789-05957	Plate, Spring Switch	1				
25	800-50058	Control Console Assembly	REF				
26	809-00508	Clevis Fork, 10-32 X 0.1875	2				

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

	<p align="center"><b>CONTROL CONSOLE ASSEMBLY</b> Continuous Rotation and Non Continuous Combined Flow</p>	DATE: Revised 07-2009	<p align="center"><b>GROUP</b> <b>28</b></p>
		MODEL: BT3870	
		PAGE 28.3	



DETAIL A

**SEE PAGE 28.6**

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



**CONTROL CONSOLE ASSEMBLY**  
 Continuous Rotation and Non Continuous  
 Motor Shift

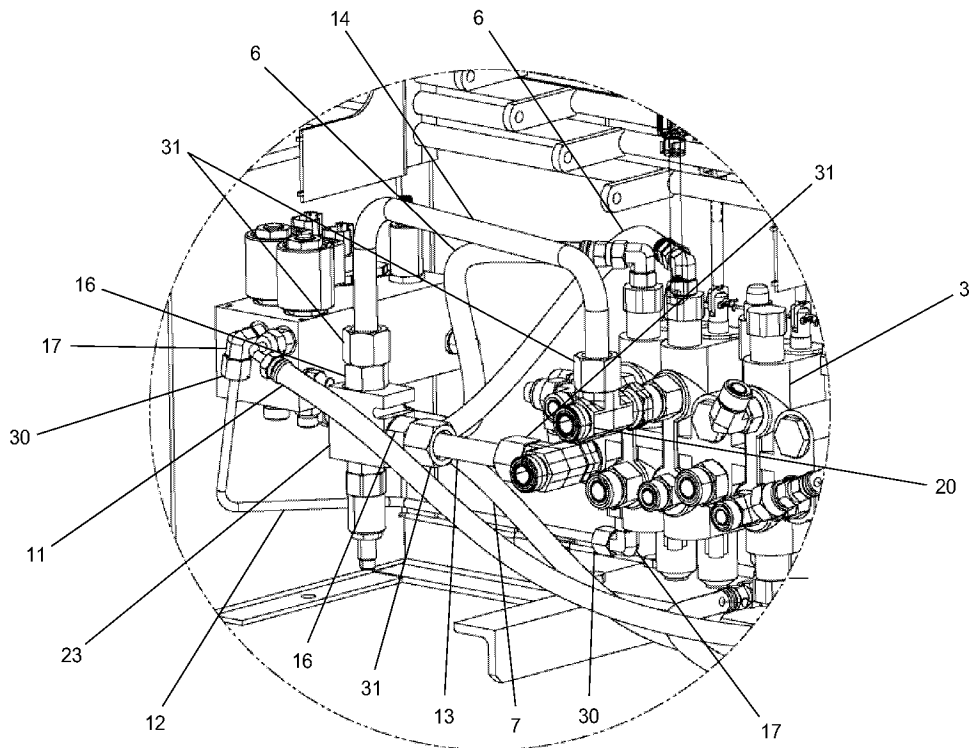
DATE: Revised 07-2009

MODEL: BT3870

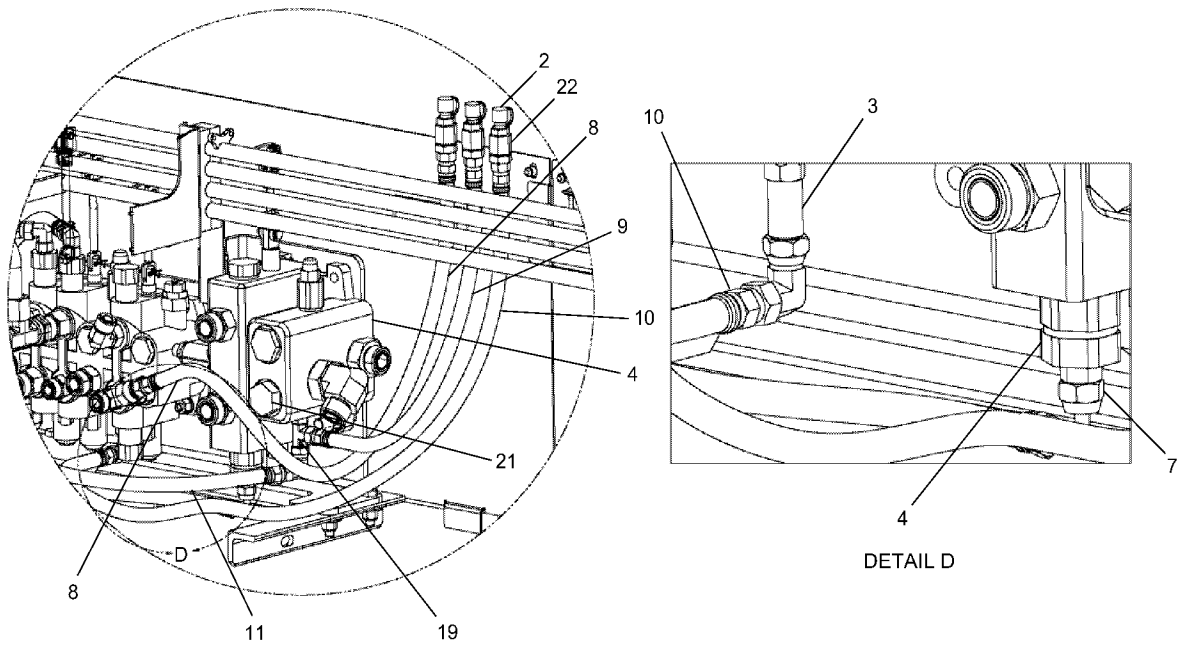
PAGE 28.4

GROUP

**28**



DETAIL B



DETAIL C

DETAIL D

**SEE PAGE 28.6**

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



**CONTROL CONSOLE ASSEMBLY**  
 Continuous Rotation and Non Continuous  
 Motor Shift

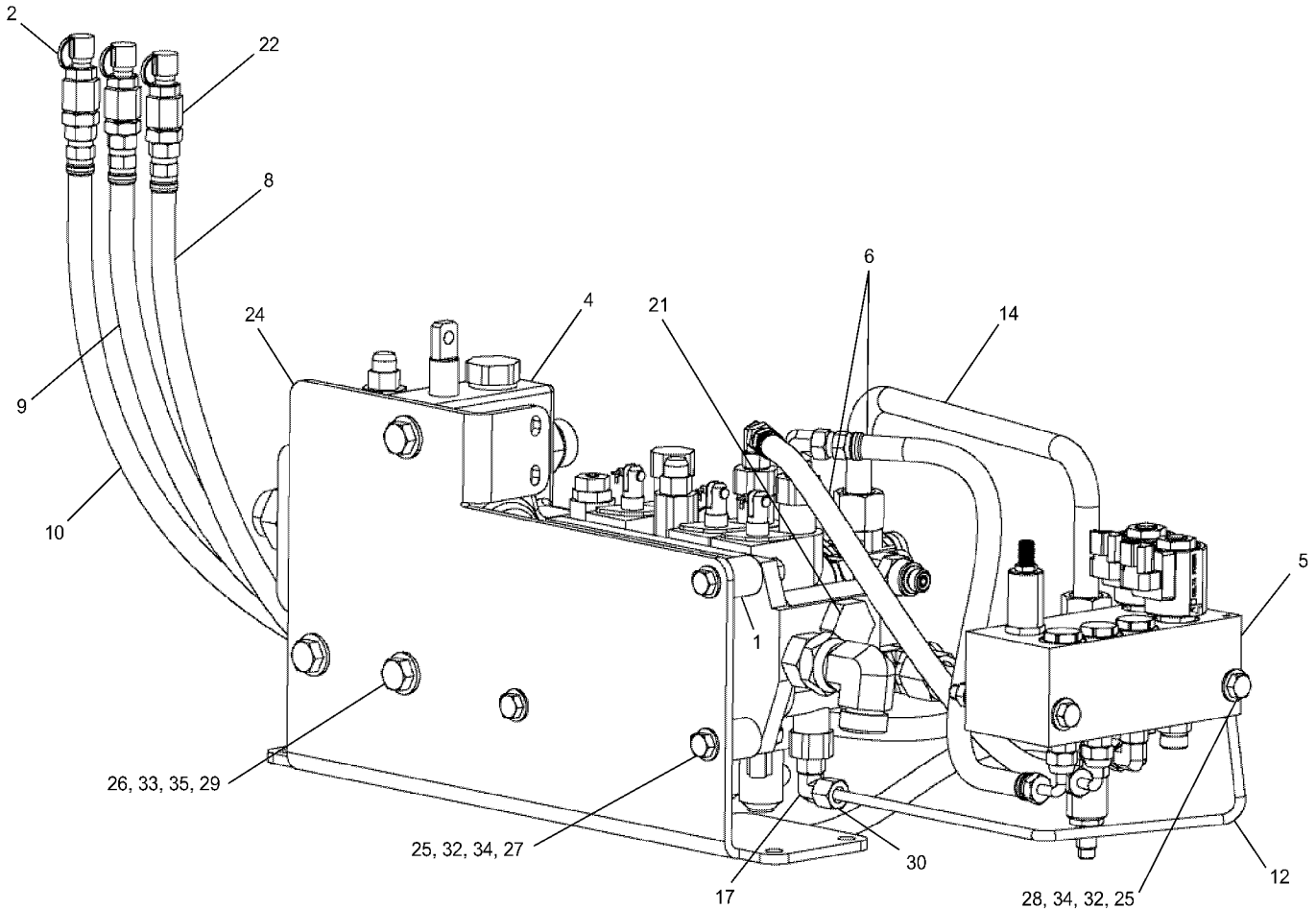
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**28**

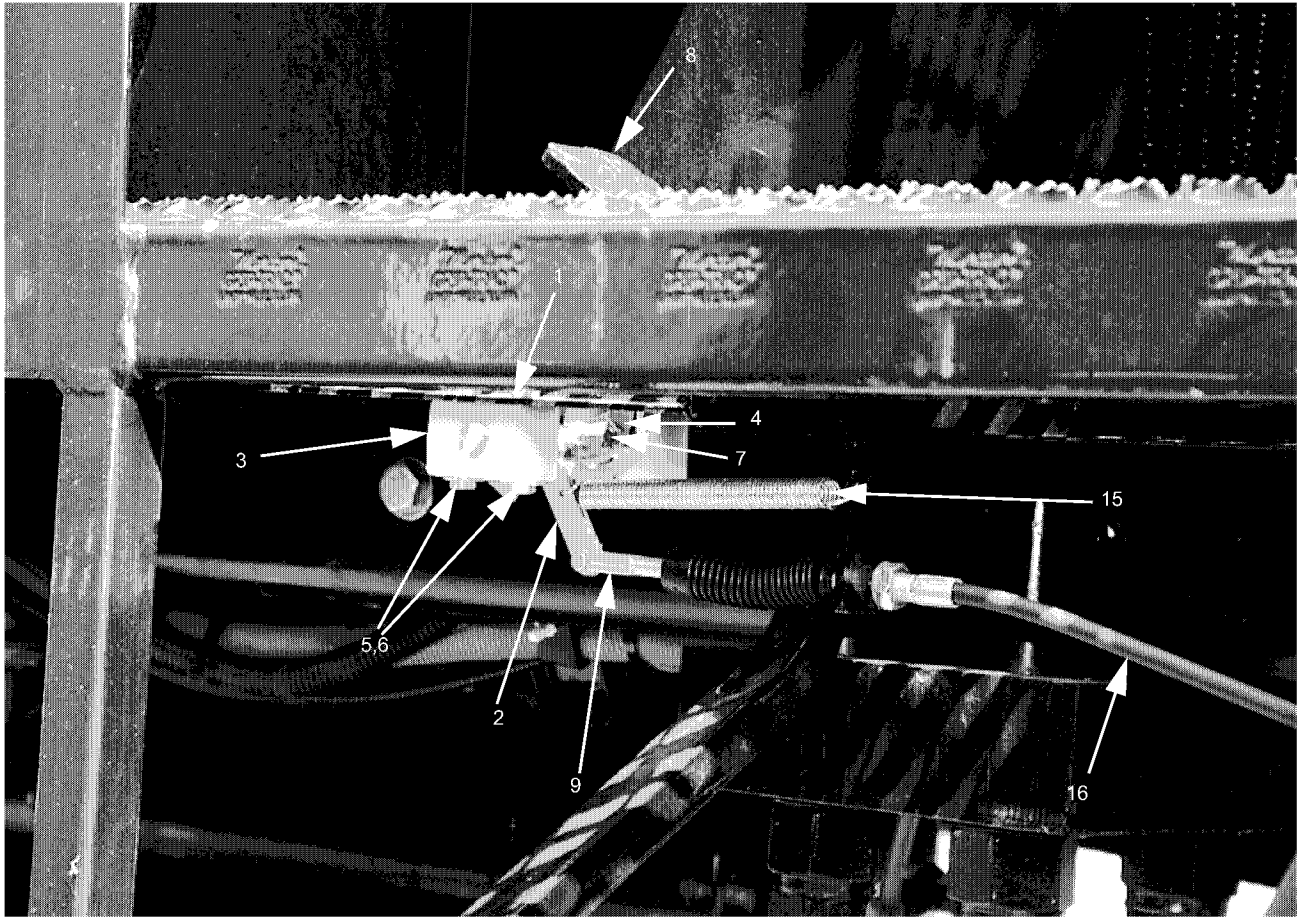


**SEE PAGES 28.4, 28.5**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01836-04	Hydraulic Installation, console (Items 1-35)					
1	001-20057	Spacer, CYL 0.406 X 1.00 X 1.00	3	21	517-30004	PLUG, HEXHD 0.75 - F3N-E4S	2
2	12019-558	Dust Cap	3	22	518-20013	Parker # PD 346	3
3	500-01826	Valve Assembly	1	23	559-00262	Valve, Relief	1
4	500-01827	Valve Subassembly, Winch	1	24	800-50058	Control Console Assembly	1
5	500-01828	Valve Assembly, LMI	1	25	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5	5
6	502-11325	Hose, LMI -Boom Topping	2	26	N04-500C000-25	Nut, HEX 0.50-13, ST Z GR5	3
7	502-11327	Hose, LMI Winch Raise Unloading	1	27	S01-375CB50-25	Screw, HHCS	
8	502-11330	Hose, Swing Test Port	1			0.375-16X2.50, ST Z GR5	3
9	502-11331	Hose, Winch Test Port	1	28	S01-375CD00-25	Screw, HHCS	
10	502-11332	Hose, Main Valve Test Port	1			0.375-16X4.00, ST Z GR5	2
11	502-11333	Hose, 2SP Motor Shift	1	29	S01-500CB00-25	Screw, HHCS	
12	510-20465	PB Pilot Drain	1			0.50-13X2.00, ST Z GR5	3
13	510-60022	Tube, Tele Relief, 0.625 DIA	1	30	SAE520110-04	Nut, HEX, Tubenut 04	2
14	510-60023	Tube, Tele Relief, 0.625 DIA	1	31	SAE520110-10	Nut, HEX, Tubenut 10	4
15	513-20017	STR CONN M#4 OFS X M#4 ORB	1	32	W07-375X000-20	Washer, LCK, MED SPLT	
16	513-60012	CONN, -10 OFS X -8 ORB (A7S)	2			0.375, ST Z	5
17	514-52003	Elbow 90 STD-M#4 OFS	2	33	W07-500X000-20	Washer, LCK, MED	
18	514-62002	Elbow 90	1			SPLT 0.50, ST Z	3
		M0.250OFS X F0.250OFS SW	1	34	WAN-37NX000-20	Washer, FL TYP A-NRW	
19	516-82006	Tee, Run -4 OFS X -4 ORB	1			0.375, ST Z	5
20	516-86002	Swivel Run Tee - 10 - 10 - 10	1	35	WAN-50NX000-20	Washer, FL TYP A-NRW	
						0.50, ST Z	3

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

	<p align="center"><b>CONTROL CONSOLE ASSEMBLY</b> Continuous Rotation and Non Continuous Motor Shift</p>	DATE: Revised 07-2009	<p align="center"><b>GROUP</b> <b>28</b></p>
		MODEL: BT3870	
		PAGE 28.6	



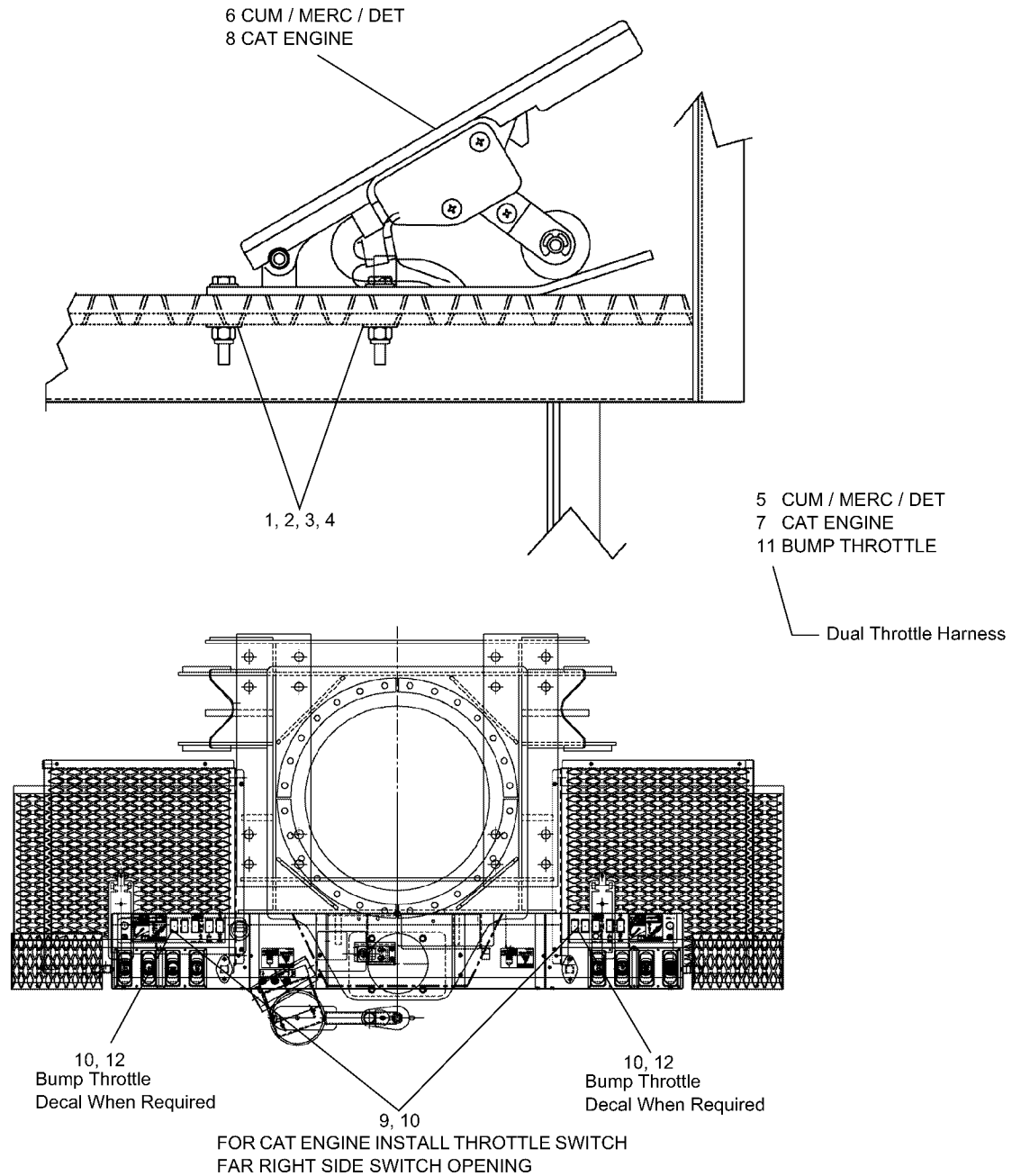
REF	PART NO.	DESCRIPTION	QTY
	600-40347	Throttle Sub Assembly <i>Items 1 through 14</i>	
1	809-00407	Throttle Weldment .....	1
2	809-00389	Throttle Shaft, .....	1
3	709-01612	Bearing, Block Acceleration Pedal.....	2
4	806-00198	Control Pedal, Main Link.....	1
5	220-00007	Bolt, Hex Head 1/4 NC x 2" Long .....	4
6	222-00006	Washer, Flat, 1/4 PLTD .....	4
7	870-00002	Pin, Clevis, 1/4 x 3/4 .....	2
8	100-30029	Throttle Pedal .....	1
9	809-00390	Clevis Assembly .....	2
10*	224-01001	Pin, Cotter 3/32" x 1/2" long	
11*	221-90001	Nut, Hex Head, 1/4 NC Toplock .....	4
12*	08074200	Nylon Spacer .....	2
13*	224-12001	Pin, Roll, 1/8 x 1 1/8" Long .....	1
14*	870-00132	Pin, 3/8 x 4 Long .....	1
15	202-10062	Spring, Throttle Pedal Return .....	2
16	Pg 28.8	Cable, Throttle .....	2

\* ITEMS NOT SHOWN

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

	<b>THROTTLE ASSEMBLY</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>28</b>
		MODEL: BT3870	
		PAGE 28.7	





REF	PART NO.	DESCRIPTION	QTY
	400-14032-1	Cummins / Mercedes / Detroit (Items 1-6)	
	400-14032-2	Caterpillar (Items 1-4 & 7-12)	
	400-14032-4	Bump Throttle (Items 10-12)	
1	200-00045-9	HHCS, .25-20 X 1.50 GR5 Zinc.....	2
2	222-00025-6	Flat Washer .25 Zinc.....	4
3	222-00027-8	Fender Washer .25 X 1.50 OD.....	2
4	221-00032-1	NYLOCK Nut .25-20 Zinc.....	2
5	400-25215	Dual Throttle Harness.....	1
6	300-00501	Williams Control Throttle Pedal.....	2
7	400-25216	Dual Throttle Harness.....	1
8	300-00503	Williams Control Throttle Pedal.....	2
9	651-00463	Throttle Decal.....	2
10	1223-1036	Throttle Switch.....	2
11	400-25224	Dual Throttle Harness.....	1
12	651-00475	Throttle Decal (Bump).....	1

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



## THROTTLE INSTALLATION

DATE: Revised 07-2009

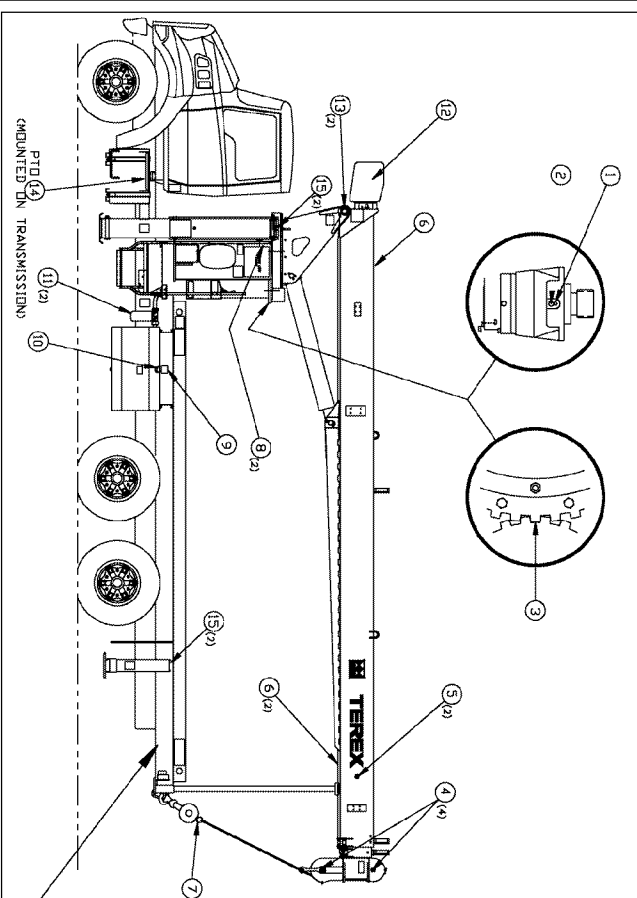
MODEL: BT3870

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GROUP

28

# TEREX MACHINE MAINTENANCE CHART



REF	DESCRIPTION	QUANTITY	LUBRICANT
1	SWING DRIVE GREASE FITTING	AS REC'D	MFG
2	SWING DRIVE FILL PLUG	FILL PLUG	POD
3	SWING GEAR TEETH	AS REC'D	MFG
4	SHEAVE PINS	AS REC'D	MFG
5	EXTEND CABLE SHEAVES	AS REC'D	MFG
6	ALL SIDES OF BOOM	AS REC'D	MFG
7	LOAD BALL PIVOT	AS REC'D	MFG
8	SWING BEARING GREASE FITTINGS	AS REC'D	MFG
9	OIL BREATHER	REPLACE	N/A
10	HYDRAULIC SYSTEM RESERVOIR	CHG & REFL	HO
11	HYDRAULIC SYSTEM FILTER	REPLACE	N/A
12	WINCH	FILL PLUG	POD
13	RETRACT CABLE SHEAVES	AS REC'D	MFG
14	PRO	AS REC'D	MFG
15	O/R PIN AT CYLINDER	AS REC'D	MFG
16	CHECK TORQUE ON BOLTS	ALL	N/A

8 HOURS OR DAILY  
 40 HOURS OR WEEKLY  
 150 HOURS OR MONTHLY  
 450 HOURS OR QUARTERLY  
 900 HOURS OR SIX MONTHS

LEGEND:  
 CHK = CHECK  
 LUBE = LUBRICATE  
 C/F = CHANGE FILTER  
 D/R = DRAIN & REFILL  
 MFG = MULTI-PURPOSE GREASE, S2  
 POD = PLANETARY GEARBOX OIL  
 HO = HYDRAULIC OIL, ISO 32  
 N/A = NOT APPLICABLE

NOTE:  $\Delta$  Reduce oil lubrication intervals under severe operating conditions. Refer to Operator's Manual for drain/refill procedures and additional information.  
 $\Delta$  Check outrigger beams daily and remove excess dirt.  
 $\Delta$  See Operator's Manual.  
 $\Delta$  Grease w/boom Fully Retained

SAFETY BLACK  
 SYMBOLS  
 AND TEXT

652-00570 REV A

REF	PART NO.	DESCRIPTION	QTY
	652-00570	Maintenance Chart	

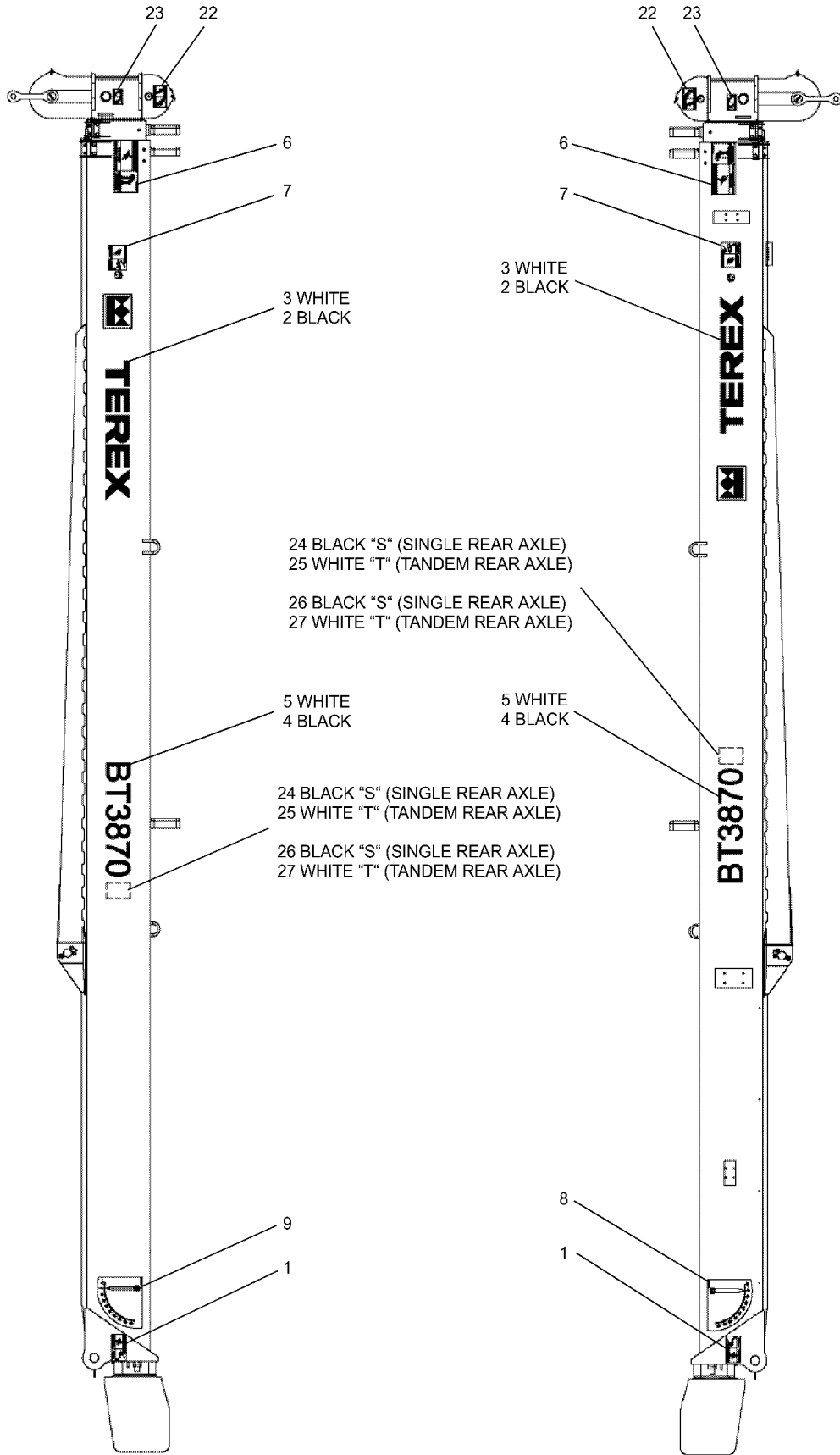
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED



## TOOLS/PAINTS

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 PAGE 29.1

GROUP  
**29**



CURBSIDE VIEW

STREET SIDE VIEW

**SEE PAGE 30.3**

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



**MARKING DECAL PLACEMENT**

DATE: Revised 07-2009

MODEL: BT3870

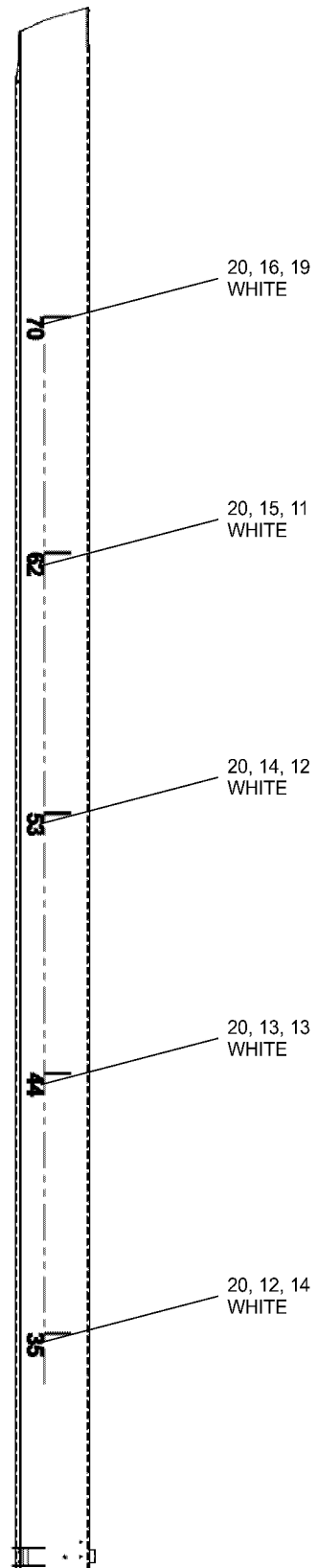
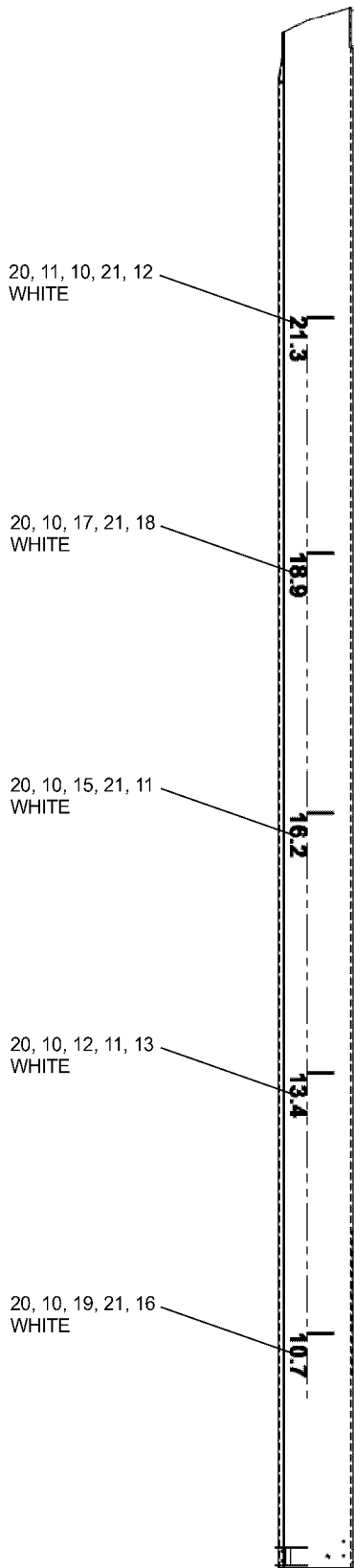
PAGE 30.1

GROUP

**30**

2ND STAGE METRIC DECAL

2ND STAGE ENGLISH DECAL



SEE PAGE 30.3

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



MARKING DECAL PLACEMENT

DATE: Revised 07-2009

MODEL: BT3870

PAGE 30.2

GROUP

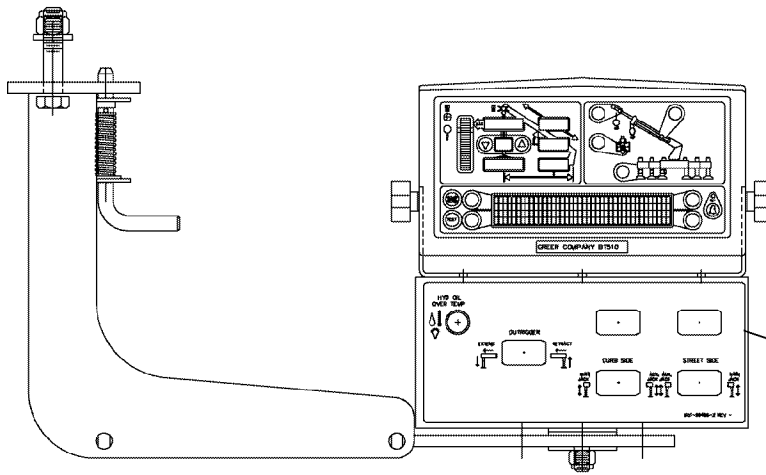
30

## SEE PAGES 30.1, 30.2

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	655-00009	<i>Boom Decal Location (Items 1-27)</i>					
1	651-00424	Decal - Loadline Crush Hazard		13	601-00025-4	Decal - Number 4 (Terex White)	
	655-00009-1	Required Boom Decals.....	2		655-00009-6	Boom 2ND Stage English WHT.....	4
2	653-00410-1	Decal - 6.25" Terex Logo (Terex Black)			655-00009-7	Boom 2ND Stage Metric WHT.....	2
	655-00009-2	BT 3870 Boom Decals		14	601-00025-5	Decal - Number 5 (Terex White)	
		Single Axle W/Logo Black.....	2		655-00009-6	Boom 2ND Stage English WHT.....	4
	655-00009-4	BT 3870 Boom Decals		15	601-00025-6	Decal - Number 6 (Terex White)	
		Tandem Axle W/Logo Black.....	2		655-00009-6	Boom 2ND Stage English WHT.....	2
3	653-00410-2	Decal - 6.25" Terex Logo (Terex White)			655-00009-7	Boom 2ND Stage Metric WHT.....	2
	655-00009-3	BT 3870 Boom Decals		16	601-00025-7	Decal - Number 7 (Terex White)	
		Single Axle W/Logo White.....	2		655-00009-6	Boom 2ND Stage English WHT.....	2
	655-00009-5	BT 3870 Boom Decals			655-00009-7	Boom 2ND Stage Metric WHT.....	2
		Tandem Axle W/Logo White.....	2	17	601-00025-8	Decal - Number 8 (Terex White)	
4	653-00413-1	Decal - BT 3870 (Terex Black)			655-00009-7	Boom 2ND Stage Metric WHT.....	2
	655-00009-2	BT 3870 Boom Decals		18	601-00025-9	Decal - Number 9 (Terex White)	
		Single Axle W/Logo Black.....	2		655-00009-7	Boom 2ND Stage Metric WHT.....	2
	655-00009-4	BT 3870 Boom Decals		19	601-00025-10	Decal - Number 0 (Terex White)	
		Tandem Axle W/Logo Black.....	2		655-00009-6	Boom 2ND Stage English WHT.....	2
5	653-00413-2	Decal - BT 3870 (Terex White)			655-00009-7	Boom 2ND Stage Metric WHT.....	2
	655-00009-3	BT 3870 Boom Decals		20	601-00025-11	Decal - Indicating Line (Terex White)	
		Single Axle W/Logo White.....	2		655-00009-6	Boom 2ND Stage English WHT.....	10
	655-00009-5	BT 3870 Boom Decals			655-00009-7	Boom 2ND Stage Metric WHT.....	10
		Tandem Axle W/Logo White.....	2	21	601-00025-12	Decal - Decimal Point (Terex White)	
6	651-00416	Decal - Safe Elevated Access			655-00009-7	Boom 2ND Stage Metric WHT.....	10
	655-00009-1	Required Boom Decals.....	2	22	651-00422	Decal - Jib Removal W/Lift	
7	653-00411	Decal - Crush/Cut Hazard			655-00009-1	Required Boom Decals.....	2
	655-00009-1	Required Boom Decals.....	2	23	651-00471	Decal - Lanyard Hook Location	
8	653-00389	Decal - Boom Angle Indicator - RH			655-00009-1	Required Boom Decals.....	2
	655-00009-1	Required Boom Decals.....	1	24	653-00417-1	Decal - 6.5" S (Single Rear Axle Black)	
9	653-00390	Decal - Boom Angle Indicator - LH			655-00009-2	BT 3870 Boom Decals	
	655-00009-1	Required Boom Decals.....	1			Single Axis W/Logo Black.....	2
10	601-00025-1	Decal - Number 1 (Terex White)		25	653-00417-2	Decal - 6.5" S (Single Rear Axle White)	
	655-00009-6	Boom 2ND Stage English WHT.....	10		655-00009-3	BT 3870 Boom Decals	
	655-00009-7	Boom 2ND Stage Metric WHT.....	10			Single Axle W/Logo White.....	2
11	601-00025-2	Decal - Number 2 (Terex White)		26	653-00418-1	Decal - 6.5" T (Tandem Rear Axle Black)	
	655-00009-6	Boom 2ND Stage English WHT.....	2		655-00009-4	BT 3870 Boom Decals	
	655-00009-7	Boom 2ND Stage Metric WHT.....	4			Tandem Axle W/Logo Black.....	2
12	601-00025-3	Decal - Number 3 (Terex White)		27	653-00418-2	Decal - 6.5" T (Tandem Rear Axle White)	
	655-00009-6	Boom 2ND Stage English WHT.....	4		655-00009-5	BT 3870 Boom Decals	
	655-00009-7	Boom 2ND Stage Metric WHT.....	4			Tandem Axle W/Logo White.....	2

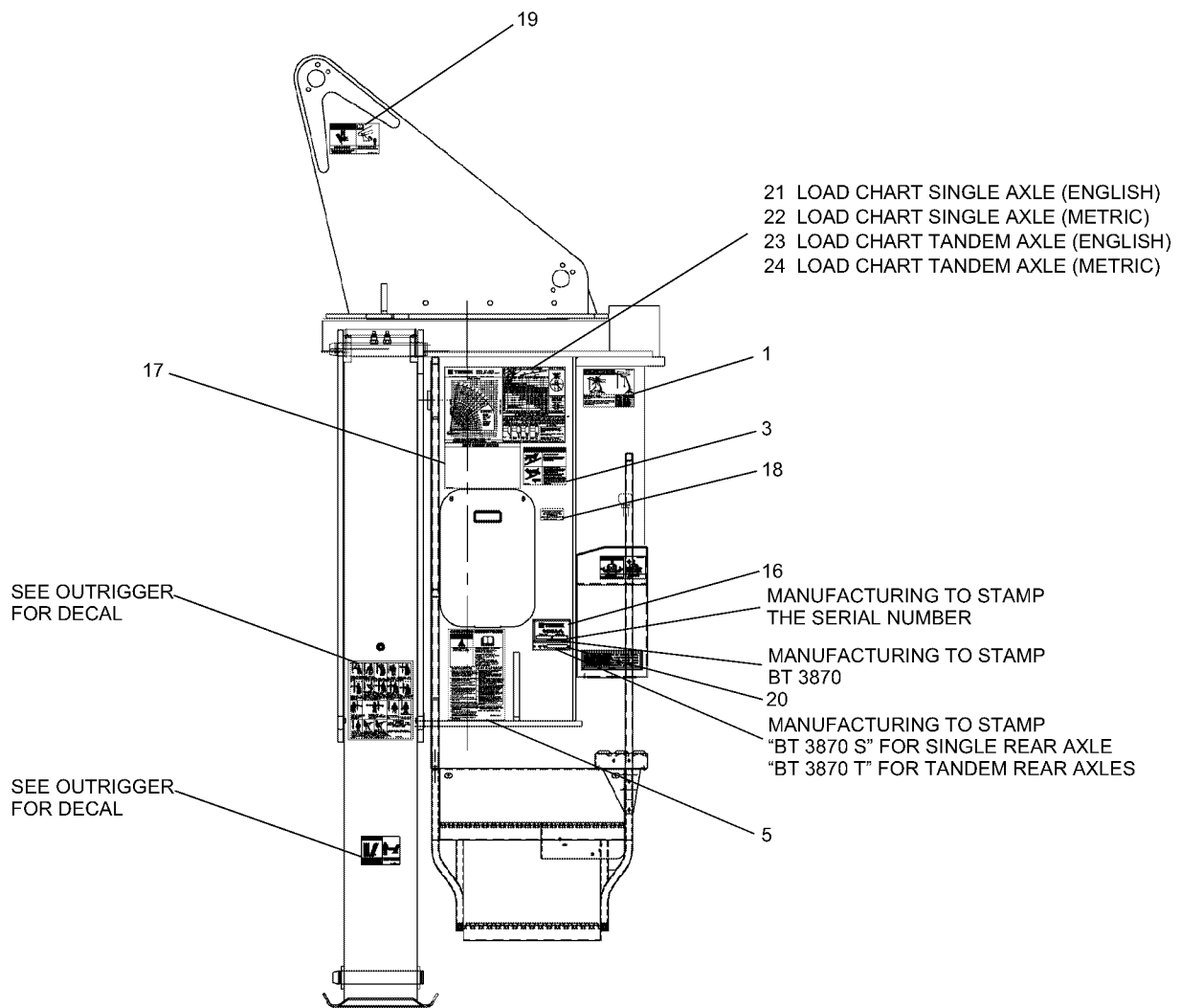
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	<b>MARKING DECAL PLACEMENT</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>30</b>
		MODEL: BT3870	
		PAGE 30.3	



SEE OUTRIGGER  
ELECTRICAL  
CONTROLS FOR  
DECAL

VIEW O/R & GREER UNIT



- 21 LOAD CHART SINGLE AXLE (ENGLISH)
- 22 LOAD CHART SINGLE AXLE (METRIC)
- 23 LOAD CHART TANDEM AXLE (ENGLISH)
- 24 LOAD CHART TANDEM AXLE (METRIC)

SEE OUTRIGGER  
FOR DECAL

SEE OUTRIGGER  
FOR DECAL

16 MANUFACTURING TO STAMP  
THE SERIAL NUMBER

20 MANUFACTURING TO STAMP  
BT 3870

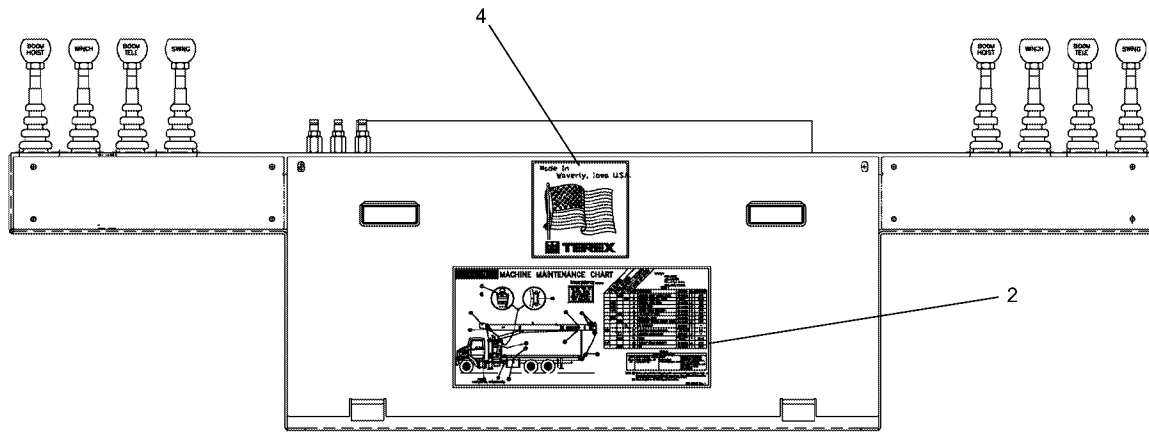
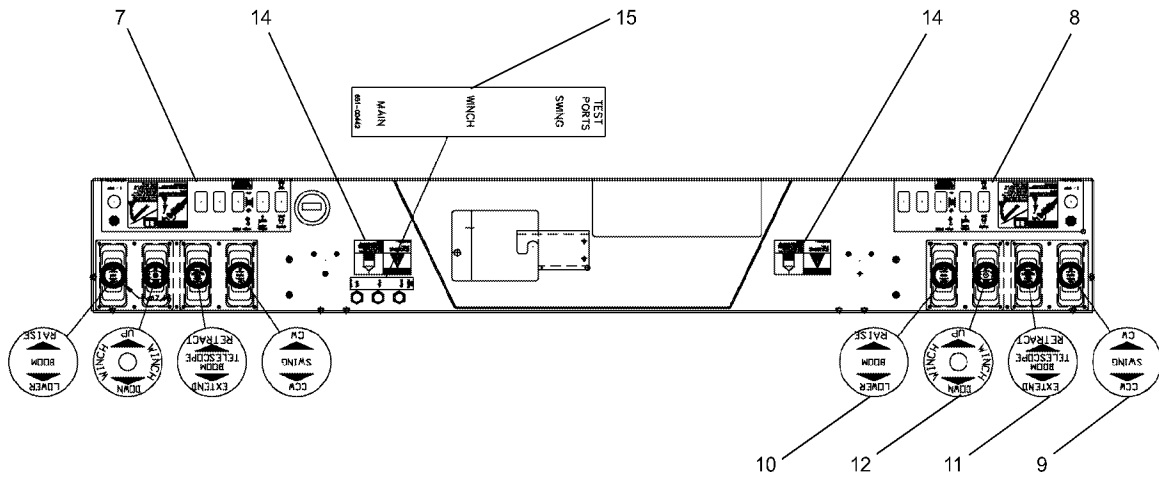
MANUFACTURING TO STAMP  
"BT 3870 S" FOR SINGLE REAR AXLE  
"BT 3870 T" FOR TANDEM REAR AXLES

STREET SIDE MAINFRAME & TURRET TOP OPPOSITE SIDE

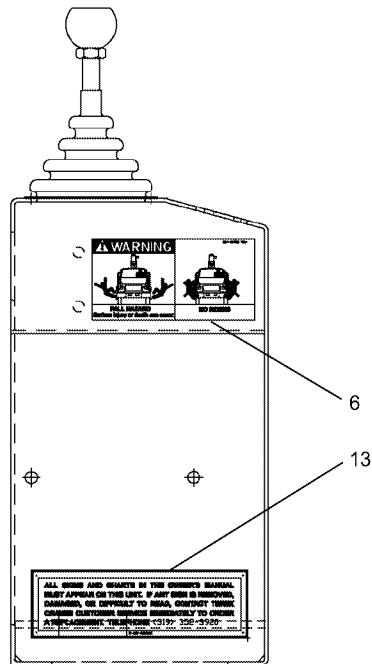
**SEE PAGE 30.6**

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

	<b>MARKING DECAL PLACEMENT</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>30</b>
		MODEL: BT3870	
		PAGE 30.4	



CONTROL CONSOLE



SEE PAGE 30.6

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



### MARKING DECAL PLACEMENT

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GROUP

**30**

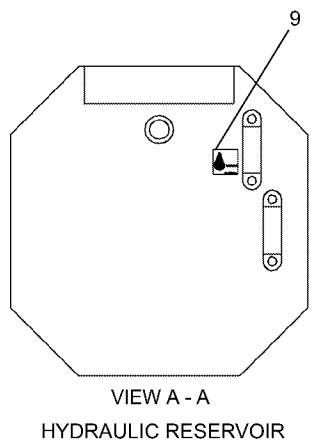
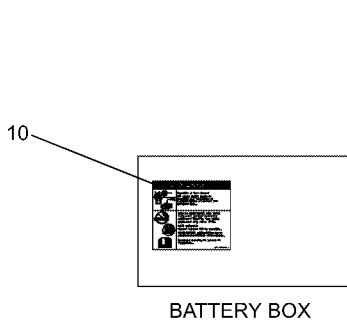
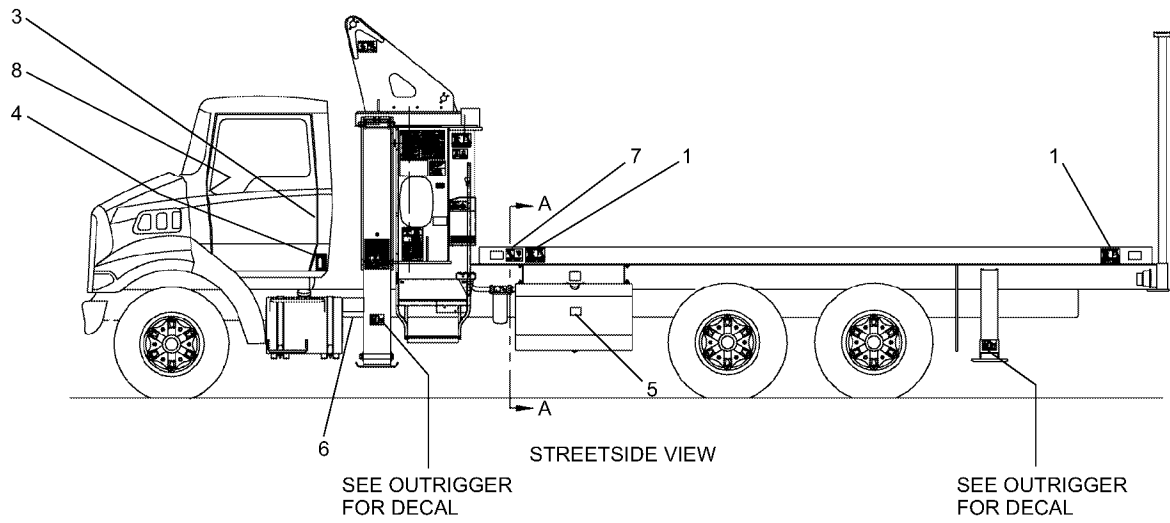
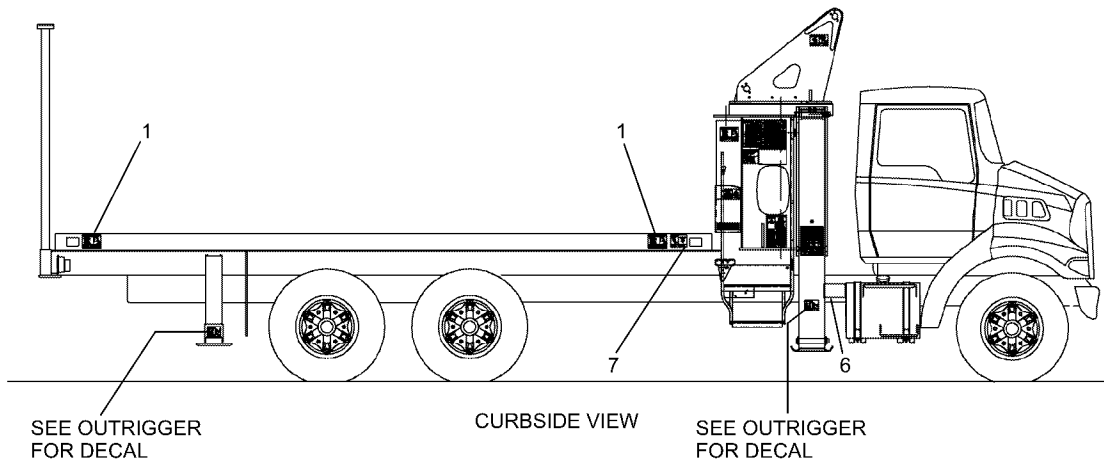
## SEE PAGES 30.4, 30.5

REF	PART NO.	DESCRIPTION	QTY
	655-00010	<i>Decal Location Mainframe Turret and Console (Items 1-24)</i>	
1	651-00412	Decal - Electrocution Hazard.....	2
2	652-00570	Decal - Machine Maintenance Chart.....	1
3	12400-1503	Decal - Skin Injection.....	2
4	653-00412	Decal - Made In USA.....	1
5	652-00569	Decal - Operating Instructions.....	2
6	651-00409	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	650-00654	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	12400-303	Placard - Serial Number.....	1
17	654-00765	Decal - Lift Chart Notes.....	2
18	653-00229	Decal - Stability certification.....	1
19	651-00425	Decal - Boom/Turret Crush Hazard.....	2
20	653-00416	Placard, Unit Number.....	1
21	654-00761	Load Chart Single Axle (English)	
	655-00010-2	BT 3870 Single Axle English.....	2
22	654-00762	Load Chart Single Axle (Metric)	
	655-00010-3	BT 3870 Single Axle Metric.....	2
23	654-00766	Load Chart Tandem Axle (English)	
	655-00010-4	BT 3870 Tandem Axle English.....	2
24	654-00767	Load Chart Tandem Axle (Metric)	
	655-00010-5	BT 3870 Tandem Axle Metric.....	2

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

	<b>MARKING DECAL PLACEMENT</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>30</b>
		MODEL: BT3870	
		PAGE 30.6	





**SEE PAGE 30.8**

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



**MARKING DECAL PLACEMENT**

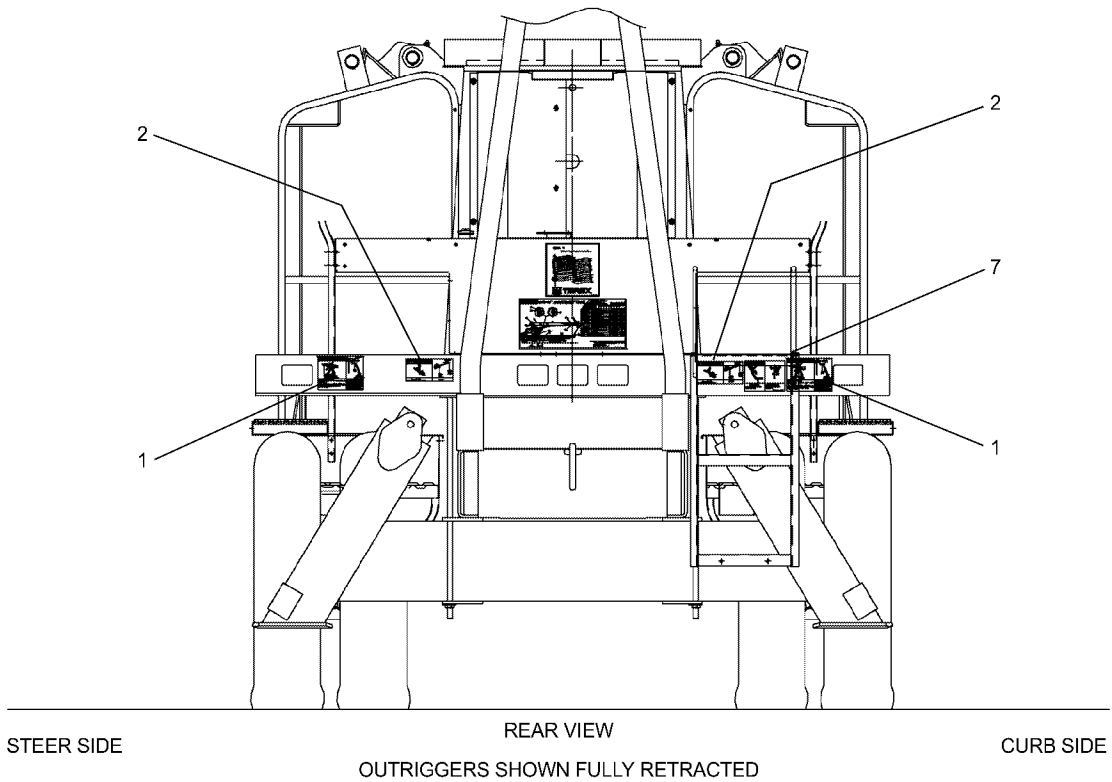
DATE: Revised 07-2009

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GROUP

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**SEE PAGE 30.7**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00011	<i>Decal Location Truck, Flatbed and Hydraulic Tank (Items 1-10)</i>	
1	651-00412	Decal - Electrocutation Hazard.....	6
2	651-00415	Decal - No Riding Boom / Jib / Load .....	2
3	654-00704	Decal - Partial Manufacturing .....	1
4	12400-1003	Decal - Fire Extinguisher.....	1
5	652-00073	Decal - Hydraulic Oil Only .....	1
6	12400-1507	Decal - Entanglement.....	2
7	12400-1516	Decal - Fall Hazard.....	3
8	652-00575	Decal - PTO.....	1
9	651-00418	Decal - Hydraulic Oil Level.....	1
10	651-00473	Decal - Battery Danger.....	1

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



**MARKING DECAL PLACEMENT**

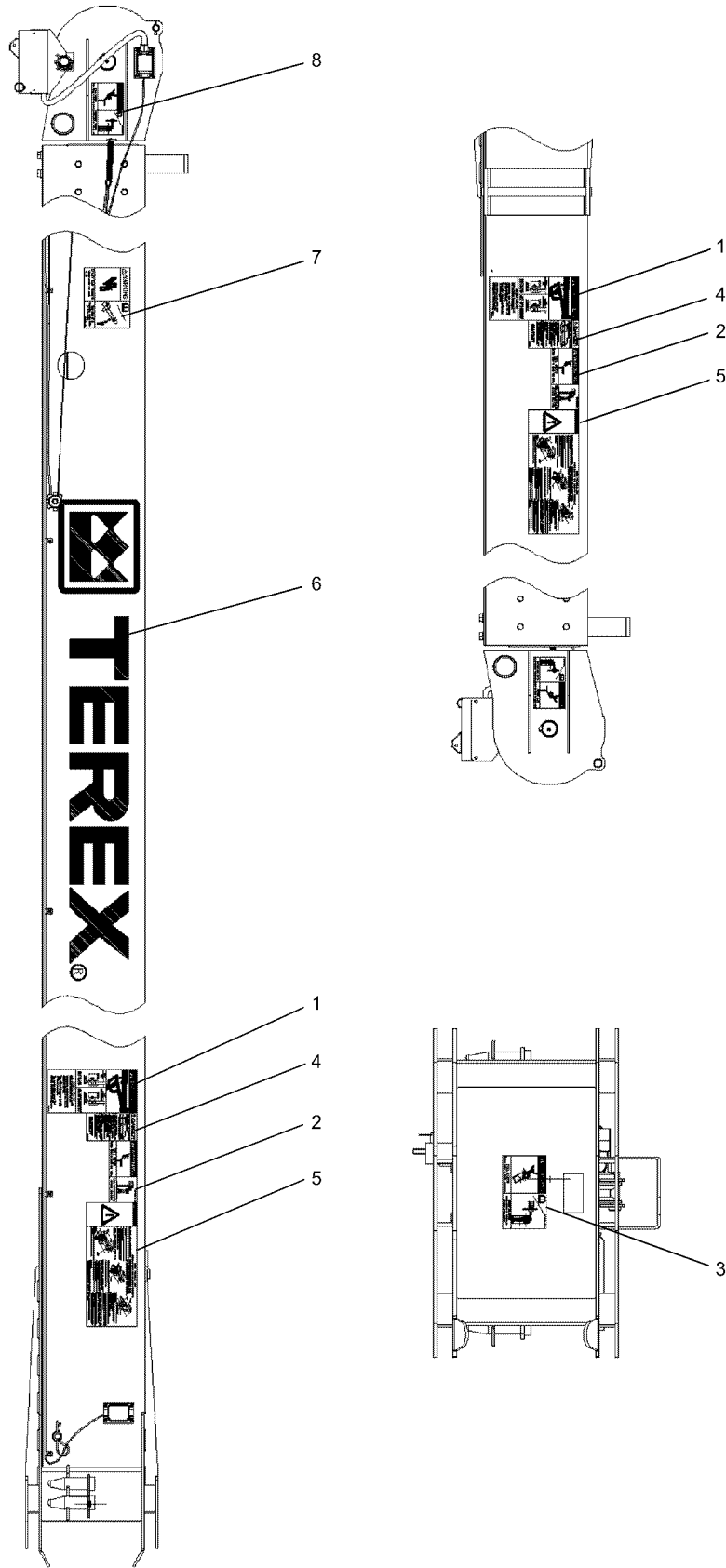
DATE: Revised 07-2009

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GROUP

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SEE PAGE 30.10

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



**MARKING DECAL PLACEMENT**

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GROUP

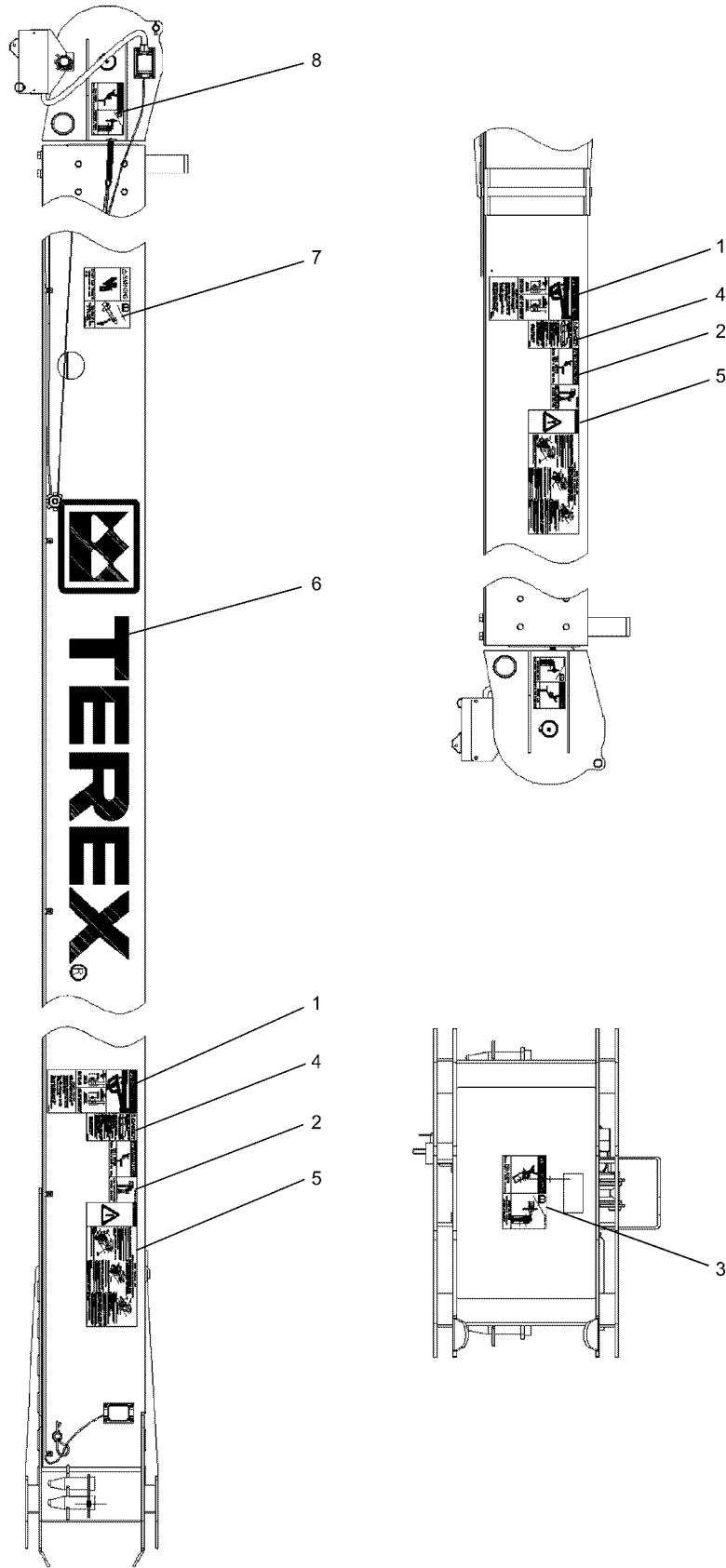
**30**

**SEE PAGE 30.9**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00016	<i>Decal Install, Jib - Black Terex (Items 1-8)</i>	
1	651-00371	Decal - Crush Hazard Jib .....	2
2	651-00416	Decal - Safe Elevated Access .....	2
3	651-00422	Decal - Jib Removal, Lift Attach .....	1
4	652-00132	Decal - Jib Operation, 2 Stage .....	2
5	652-00576	Decal - Jib Install, Side Folding .....	2
6	653-00410-1	Decal - Terex Logo, 6.25 HT, BLK .....	2
7	653-00414	Decal - Crush-Cut Hazard .....	2
8	651-00423	Decal - Layanard Hook Location .....	2

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

	<b>MARKING DECAL PLACEMENT</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>30</b>
		MODEL: BT3870	
		PAGE 30.10	



SEE PAGE 30.12

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



**MARKING DECAL PLACEMENT**

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GROUP

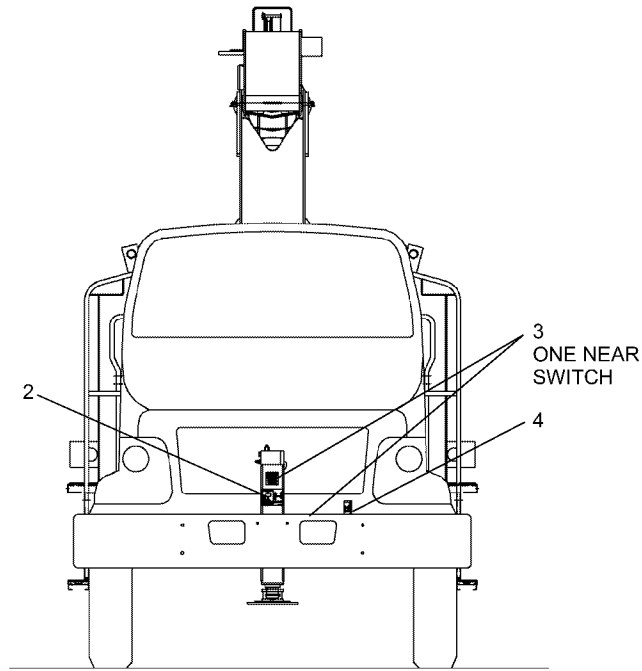
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## SEE PAGE 30.11

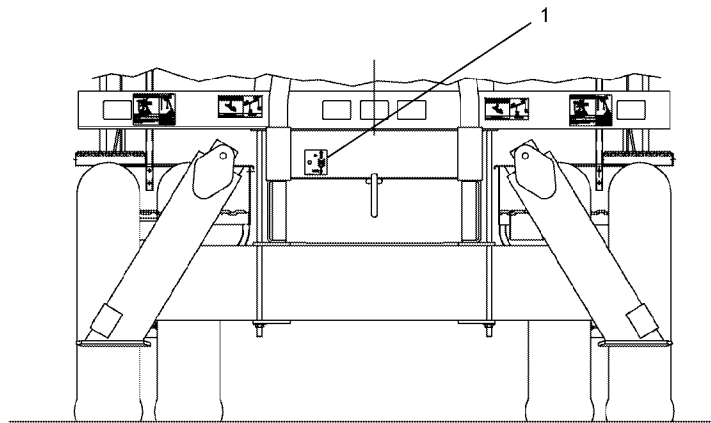
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00017	<i>Decal Install, Jib - White Terex (Items 1-8)</i>	
1	651-00371	Decal - Crush Hazard Jib .....	2
2	651-00416	Decal - Safe Elevated Access .....	2
3	651-00422	Decal - Jib Removal, Lift Attach .....	1
4	652-00132	Decal - Jib Operation, 2 Stage .....	2
5	652-00576	Decal - Jib Install, Side Folding .....	2
6	653-00410-2	Decal - Terex Logo, 6.25 HT, WHT .....	2
7	653-00414	Decal - Crush-Cut Hazard .....	2
8	651-00423	Decal - Layanard Hook Location .....	2

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

 <b>TEREX</b>	<b>MARKING DECAL PLACEMENT</b>	DATE: Revised 07-2009	<b>GROUP</b>  <span style="font-size: 1.5em;"><b>30</b></span>
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		PAGE 30.12	



FIFTH OUTRIGGER DECAL LOCATIONS



INCHING WINCH DECAL LOCATION

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	655-00013	<i>Optional Decal Location</i>	
	655-00013-1	<i>Inching Winch (Items 1)</i>	
	655-00013-2	<i>Fifth Outrigger Jack (Items 2-4)</i>	
1	651-00407	Decal - Inching Winch .....	1
2	651-00414	Decal - Fifth Outrigger Crushing.....	1
3	651-00435	Decal - Fifth Outrigger.....	2
4	651-00464	Decal - Front Outrigger Switch.....	1

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



**MARKING DECAL PLACEMENT  
OPTIONAL**

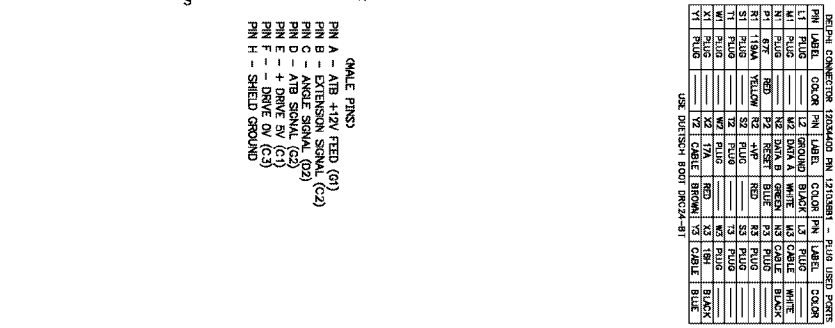
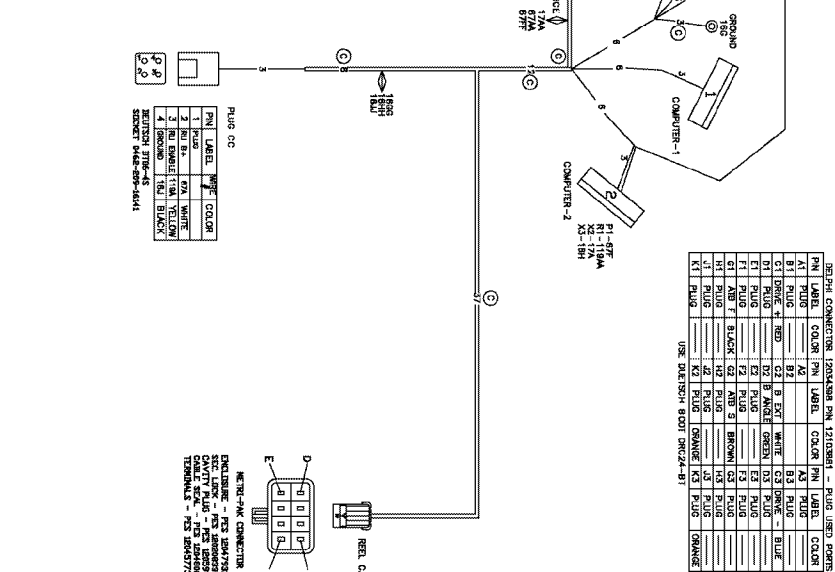
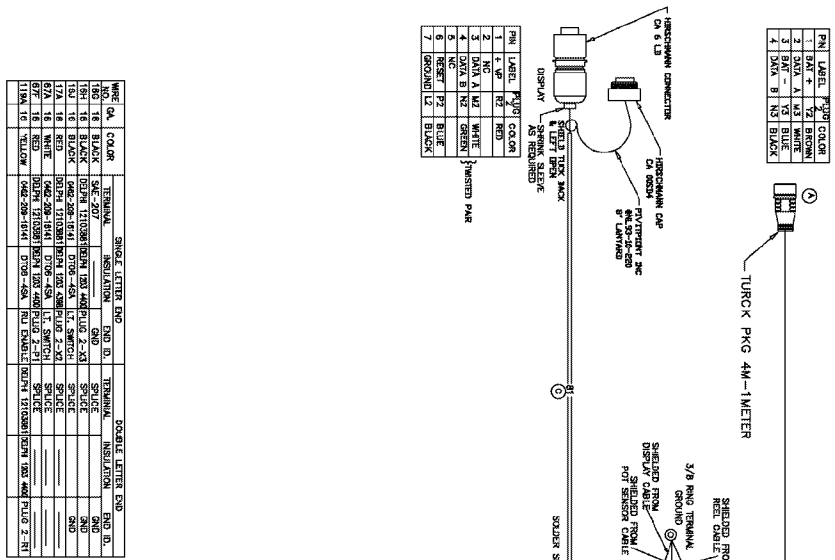
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GROUP

**30**



REF	PART NO.	DESCRIPTION	QTY
	400-16138	MG5 Harness	

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

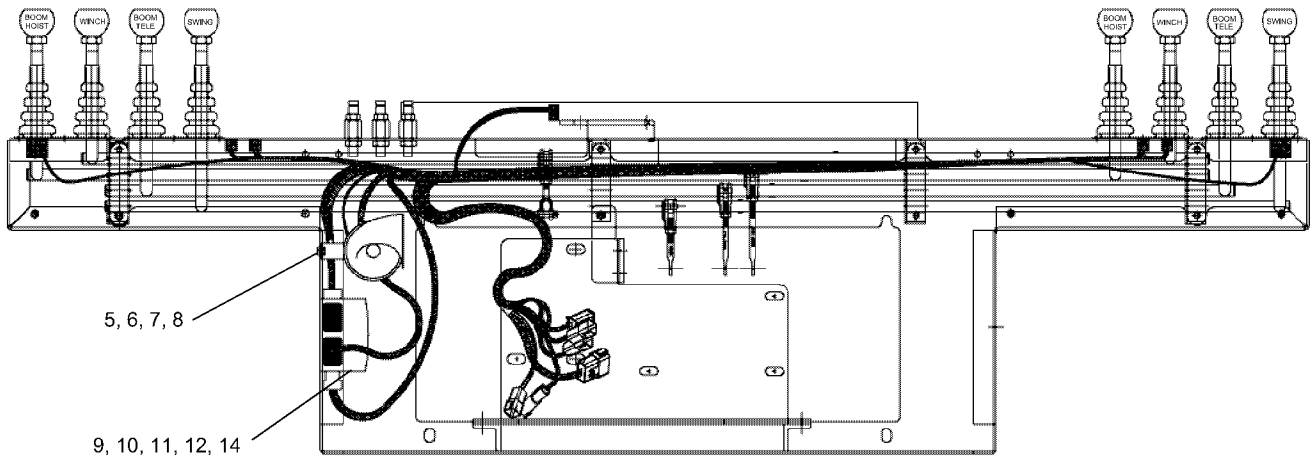
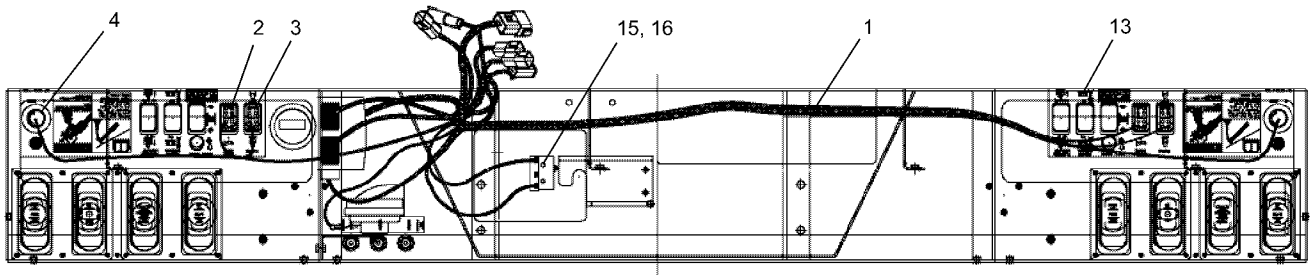


# ELECTRICAL SYSTEM HARNESSSES

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GROUP  
**33**





<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	400-25211	<i>Electrical Assembly Console (Items 1-16)</i>	
1	400 25195	Harness Console BT-2.....	1
2	1223-1050	SW Rocker SP MOM.....	2
3	1223-1051	SW Rocker SP DPDT.....	2
4	1223-981	SW Push-Pull.....	2
5	1223-387	Horn.....	1
6	220-01047-13	HHCS 5/16-18 X 1 GR5 Zinc.....	1
7	222-00025-7	Flat Washer 5/16 ZINC.....	1
8	221-00032-2	Nylon Lock Nut 5/16-18 NE Zinc.....	1
9	400-05509	Bussmann Fuse Box.....	1
10	220-00072-23	HHCS 10-24 X 1.5 GR5 Zinc.....	4
11	220-00025-4	Flat Washer #10 Zinc.....	8
12	221-00035-9	10-24 Machine Nut.....	4
13	1223-1006	Hole Plug SW.....	6
14	222-00028-7	#10 Lock Washer.....	4
15	221-00032-22	Nut, 2-56 NYLOC.....	2
16	220-00067-9	Screw, 2-56 X 5/8.....	2

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



**ELECTRICAL SYSTEM CONSOLE  
CONTROLS**

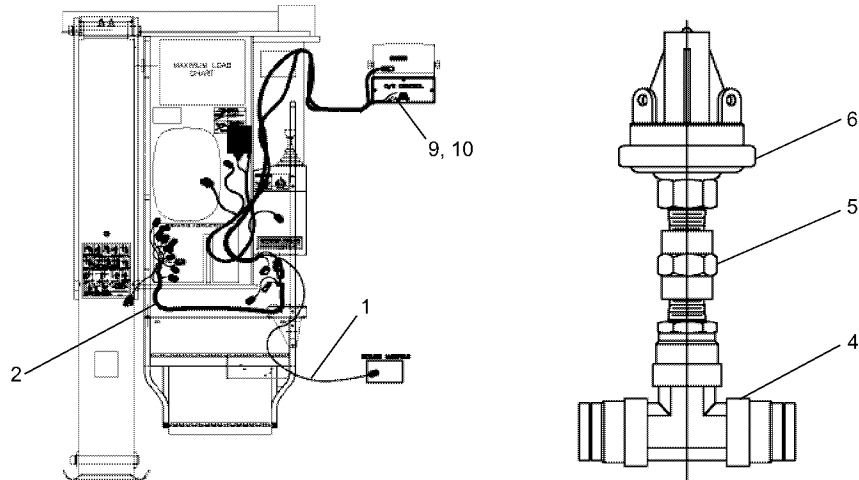
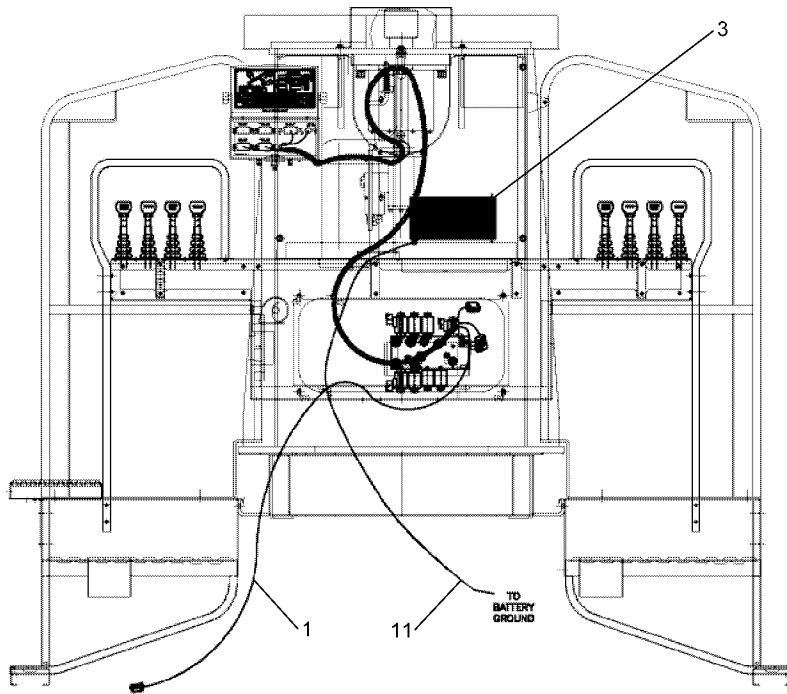
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GROUP

**33**



REF	PART NO.	DESCRIPTION	QTY
	400-25213	Electrical Assembly Main FRM (Items 1-11)	
1	400-25193	Outrigger Harness .....	1
2	402-25199	Harness Main Valve .....	1
3	718-0802	Greer Box .....	REF
4	570-50096	Tee, Branch Swivel .....	1
5	1219-134	Coupling, P. Brake Assembly .....	1
6	1223-379	Air Switch .....	1
7	1223-547*	Air Switch, PTO .....	1
8	400-25221*	Assembly Outrigger CTL Box .....	1
9	201-00264	Rigid Plastic Strape .....	1
10	220-00073-11	RHMS #10-32 X 0.75 PH HEAD .....	2
11	400-01530	Cable Assembly (Ground) .....	1

\*ITEMS NOT SHOWN

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



**ELECTRICAL  
ASSEMBLY - MAINFRAME**

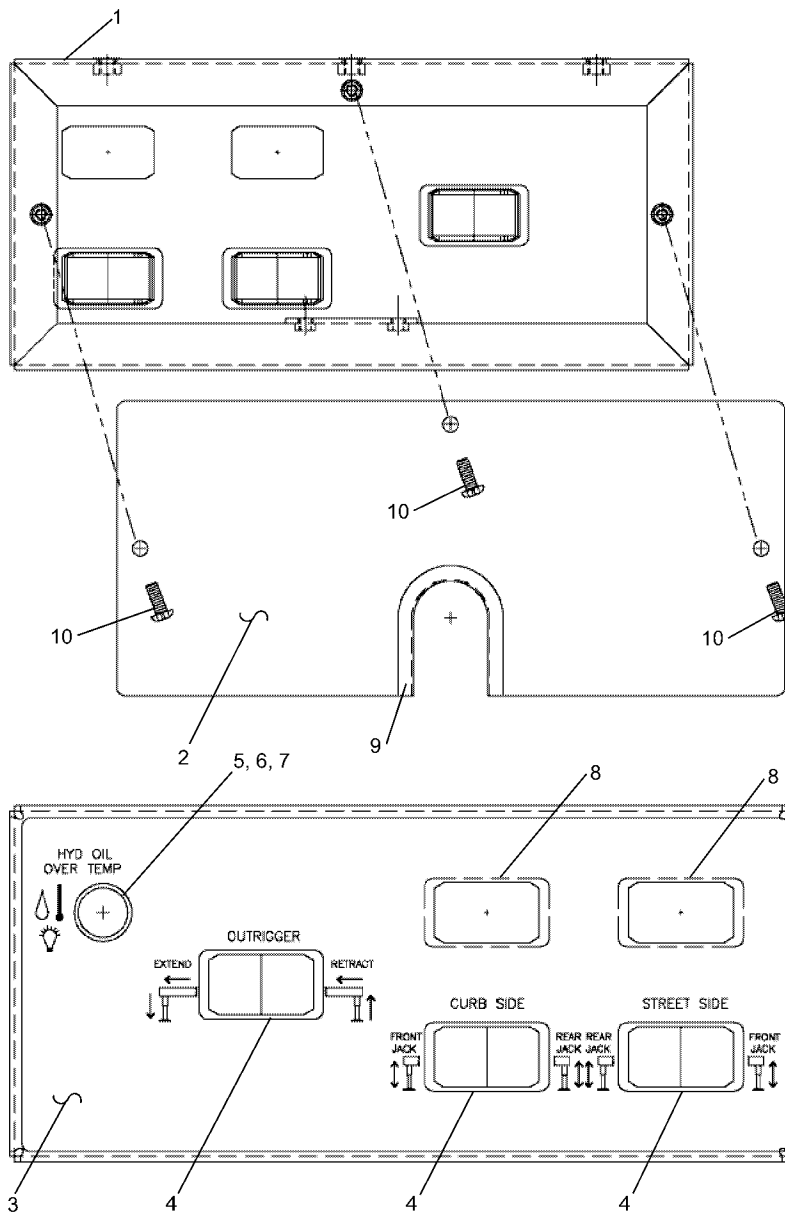
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GROUP

**33**



REF	PART NO.	DESCRIPTION	QTY
	400-25221	Assembly Outrigger CTL (Items 1-10)	
1	402-00053	Outrigger Switch Box Install .....	1
2	402-00047.3	Outrigger Switch Box Cover .....	1
3	651-00406-2	Decal Outrigger Switch Box .....	1
4	1223-1051	Switch Double Pole Single Throw .....	3
5	1223-1022	Lens Red .....	1
6	1223-1020	Socket.....	1
7	1223-1021	Lamp.....	1
8	1223-1006	Hole Plug SW .....	2
9	12147-1	Channel U Alta X-1045.....	0.5 FT
10	220-00073-11	RHMS #10-24 X 0.75 PH Drive .....	3

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



## ELECTRICAL OUTRIGGER CTL

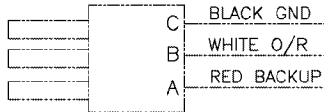
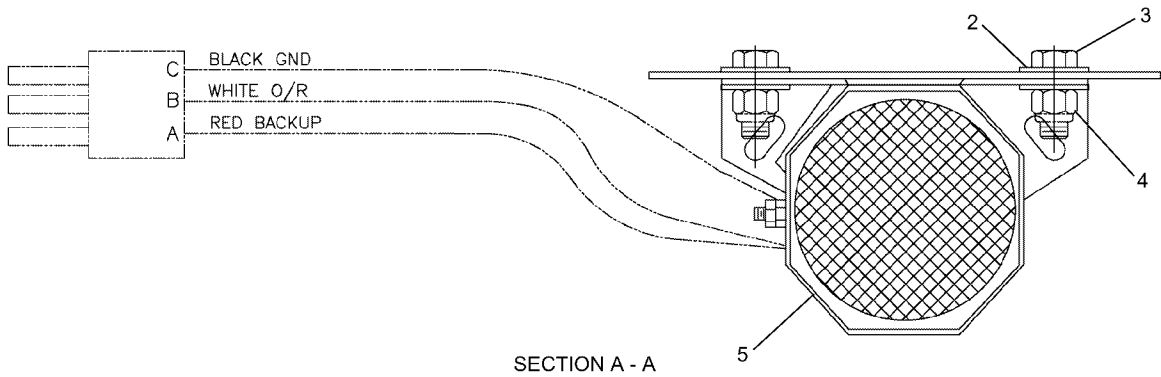
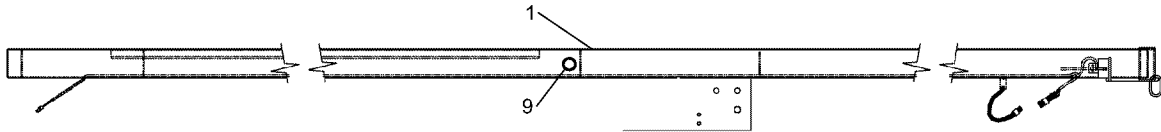
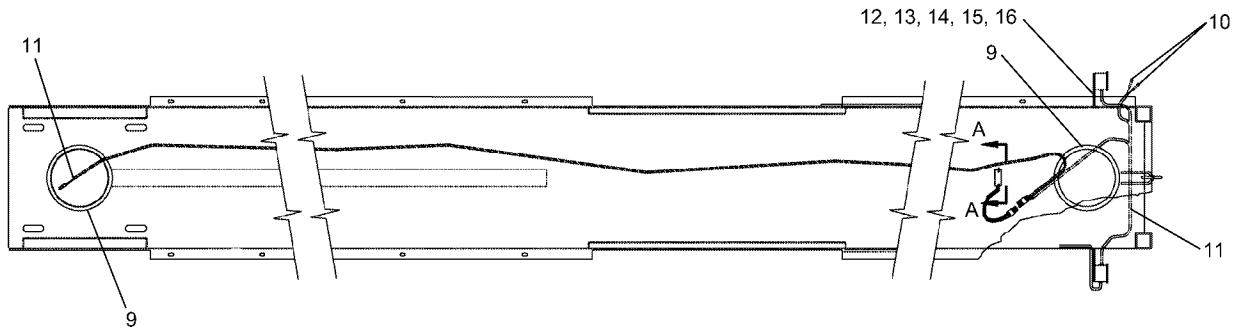
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GROUP

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REF	PART NO.	DESCRIPTION	QTY
	400-25214	Assembly Subframe Elec (Items 1-13)	
1	Boom Trucks	Subframe Weldment .....	REF
2	220-00003	Bolt, Hex Head 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	209-00174	Seal Trim .....	10FT
7	400-02230	Terminal-Butt Connection 16/14 GA .....	2
8	400-25210	Wire Harness, Tail Light - Alarm - O/R .....	1
9	789-05681	Bracket, Tail Light .....	2
10	220-01003	HHCS, 5/16-18 NC x 1.25 GR5 Zinc .....	4
11	222-01001	Flatwasher 5/16 Zinc PLT .....	8
12	222-11002	Lockwasher, 5/16 Zinc PLT .....	4
13	221-01001	Hex Nut, 5/16-18 NC Zinc PLT .....	4

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



**ELECTRICAL ASSEMBLY  
SUBFRAME**

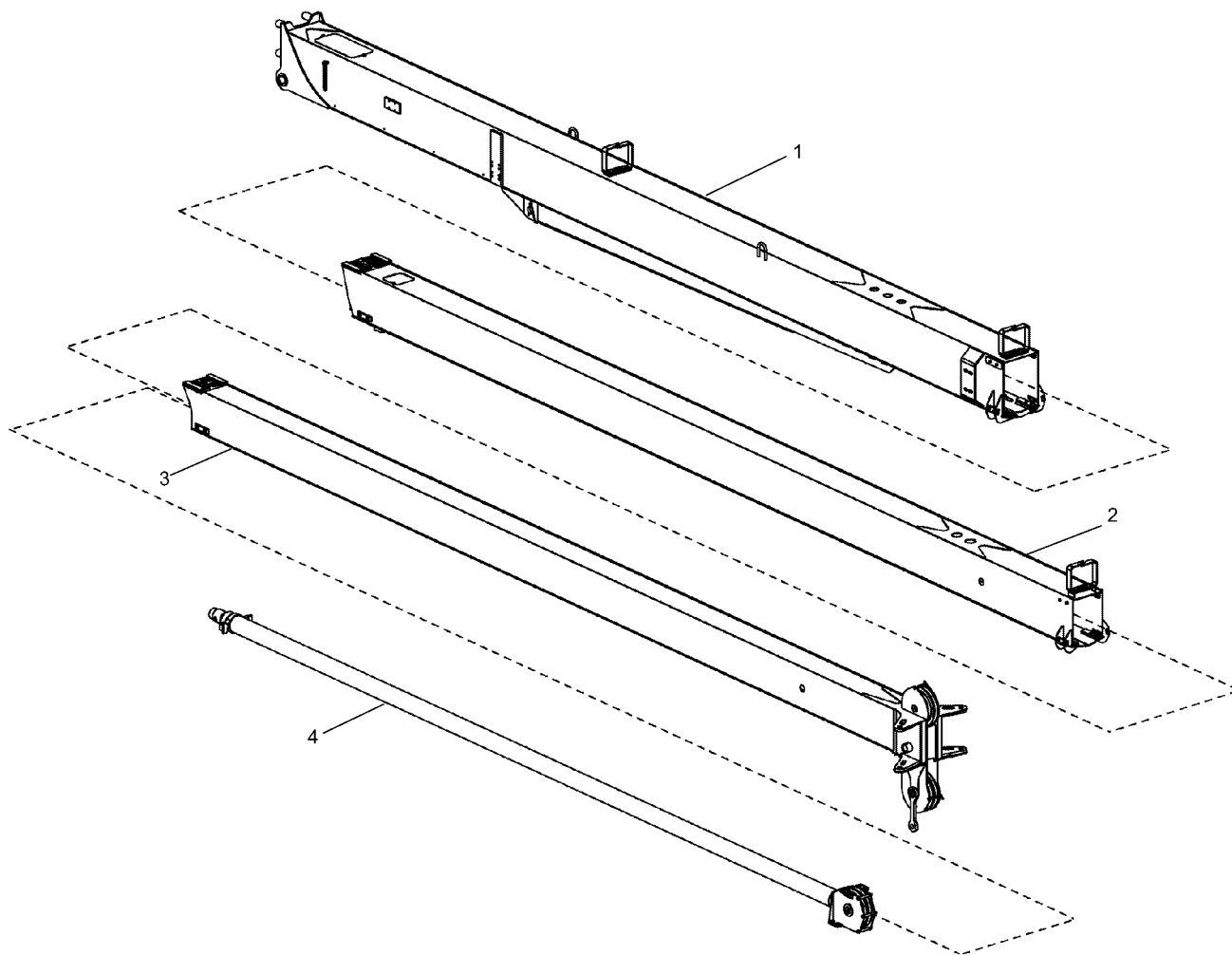
DATE: Revised 07-2009

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GROUP

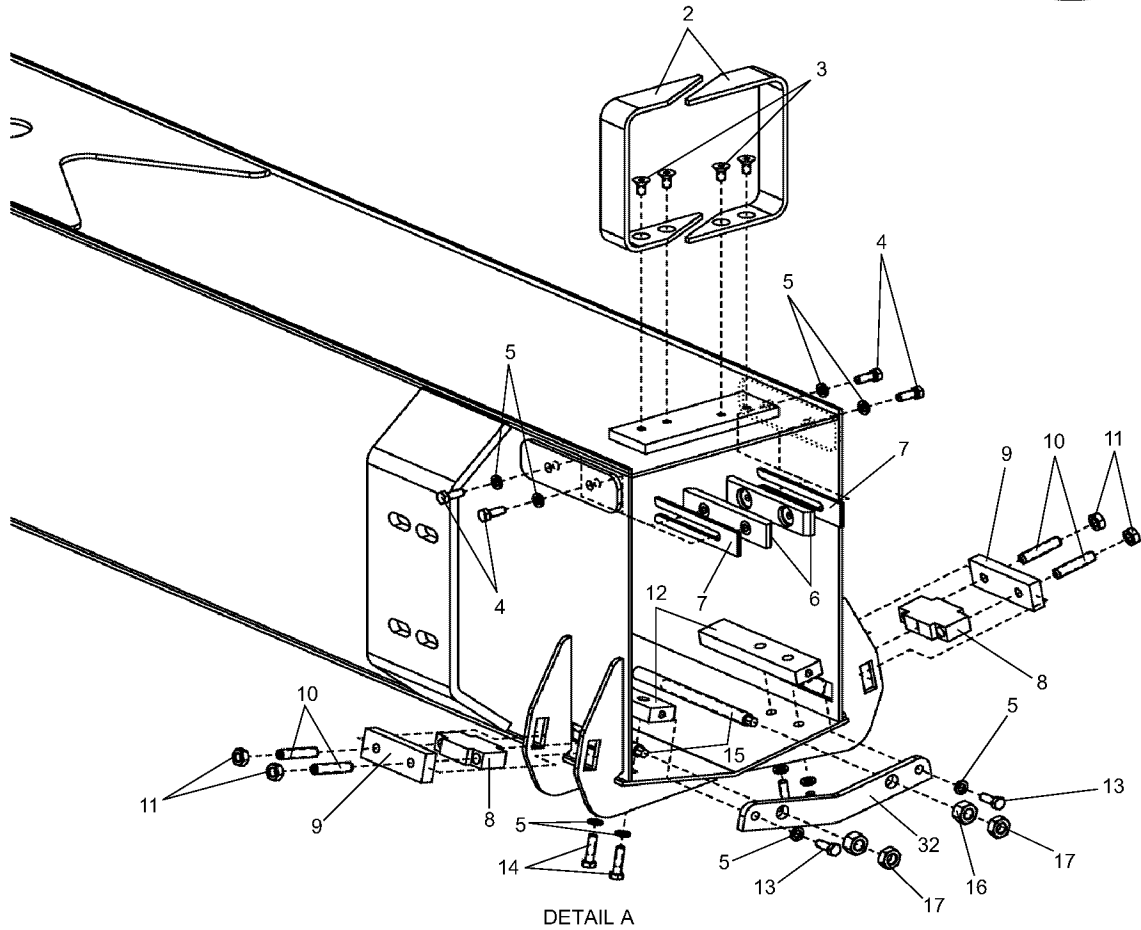
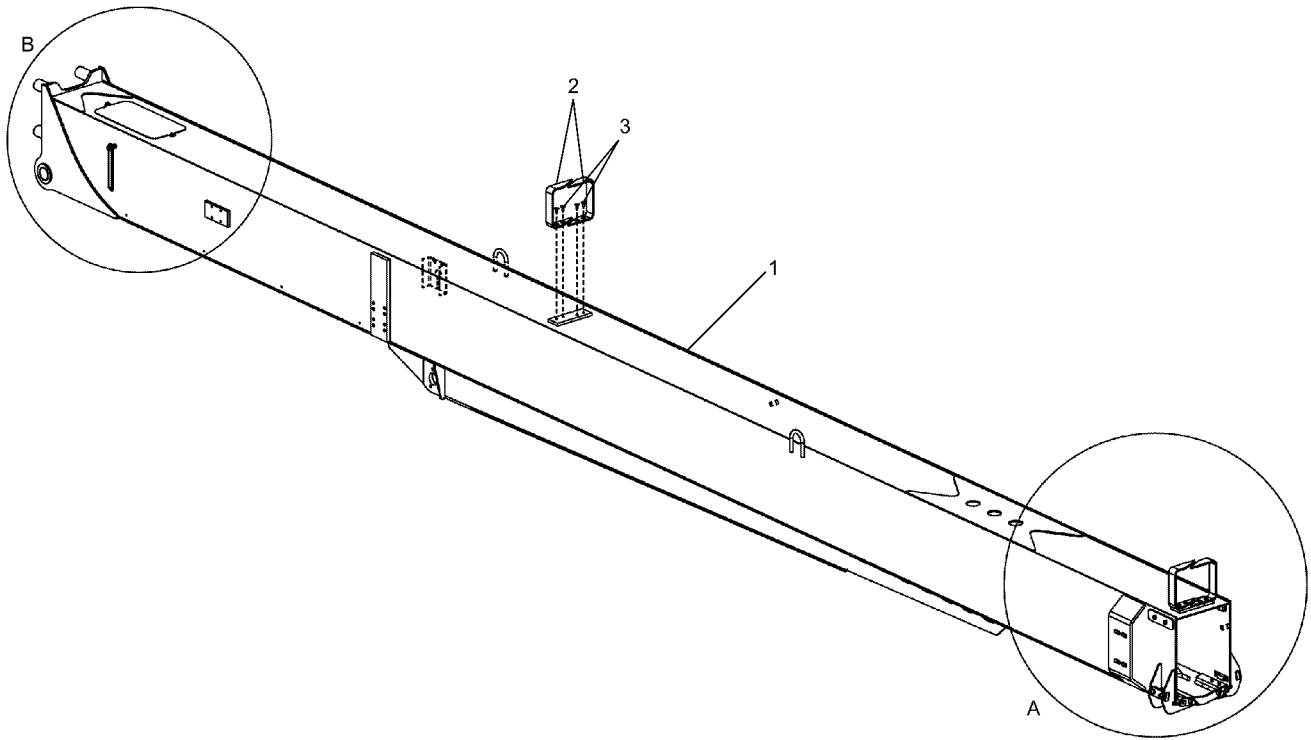
**33**



REF	PART NO.	DESCRIPTION	QTY
	721-00243	Boom Assembly, 70FT (Items 1-4)	
1	722-01376	Boom Weldment Section 1 .....	1
2	722-01363	Boom Weldment Section 2 .....	1
3	722-01361	Boom Weldment Section 3 .....	1
4	548-00059	Cylinder Assembly, Boom Extend .....	1

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

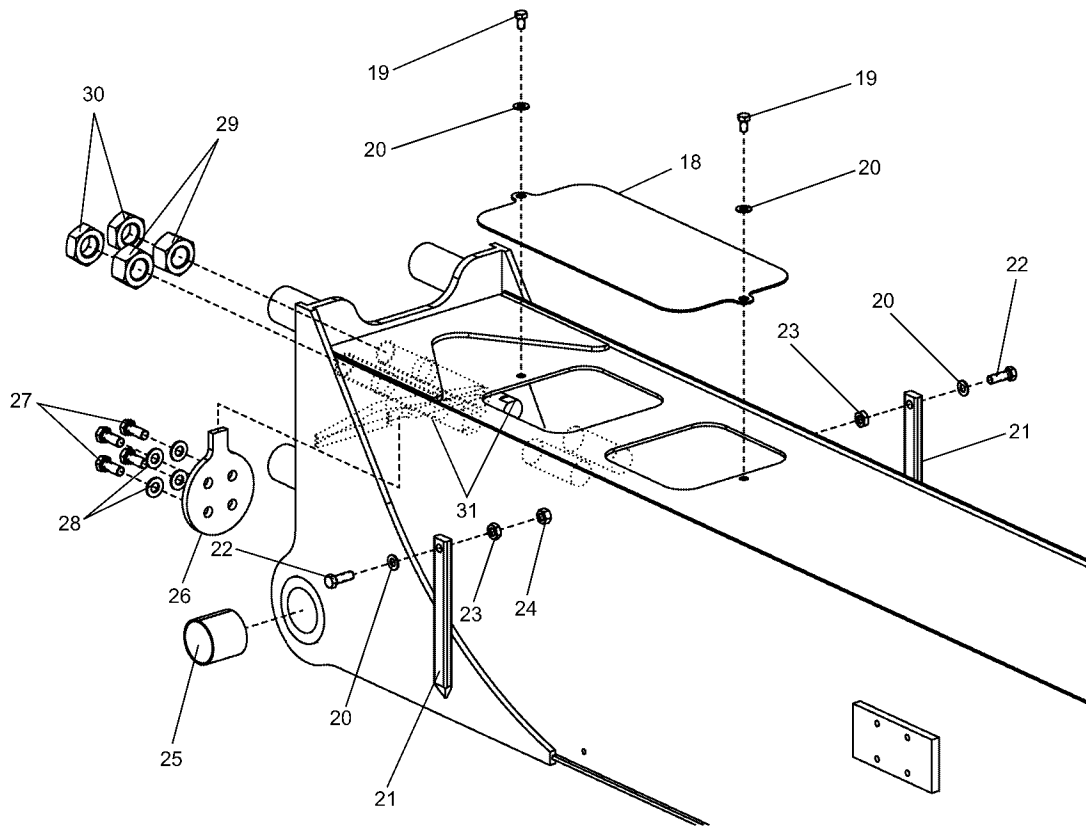
	<b>BOOM ASSEMBLY</b> 70'	DATE: Revised 07-2009	<b>GROUP</b> <b>39</b>
		MODEL: BT3870	
		PAGE 39.1	



**SEE PAGE 39.3**

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

	<b>BOOM ASSEMBLY</b> 70' Base	DATE: Revised 07-2009 MODEL: BT3870 PAGE 39.2	<b>GROUP</b>  <b>39</b>
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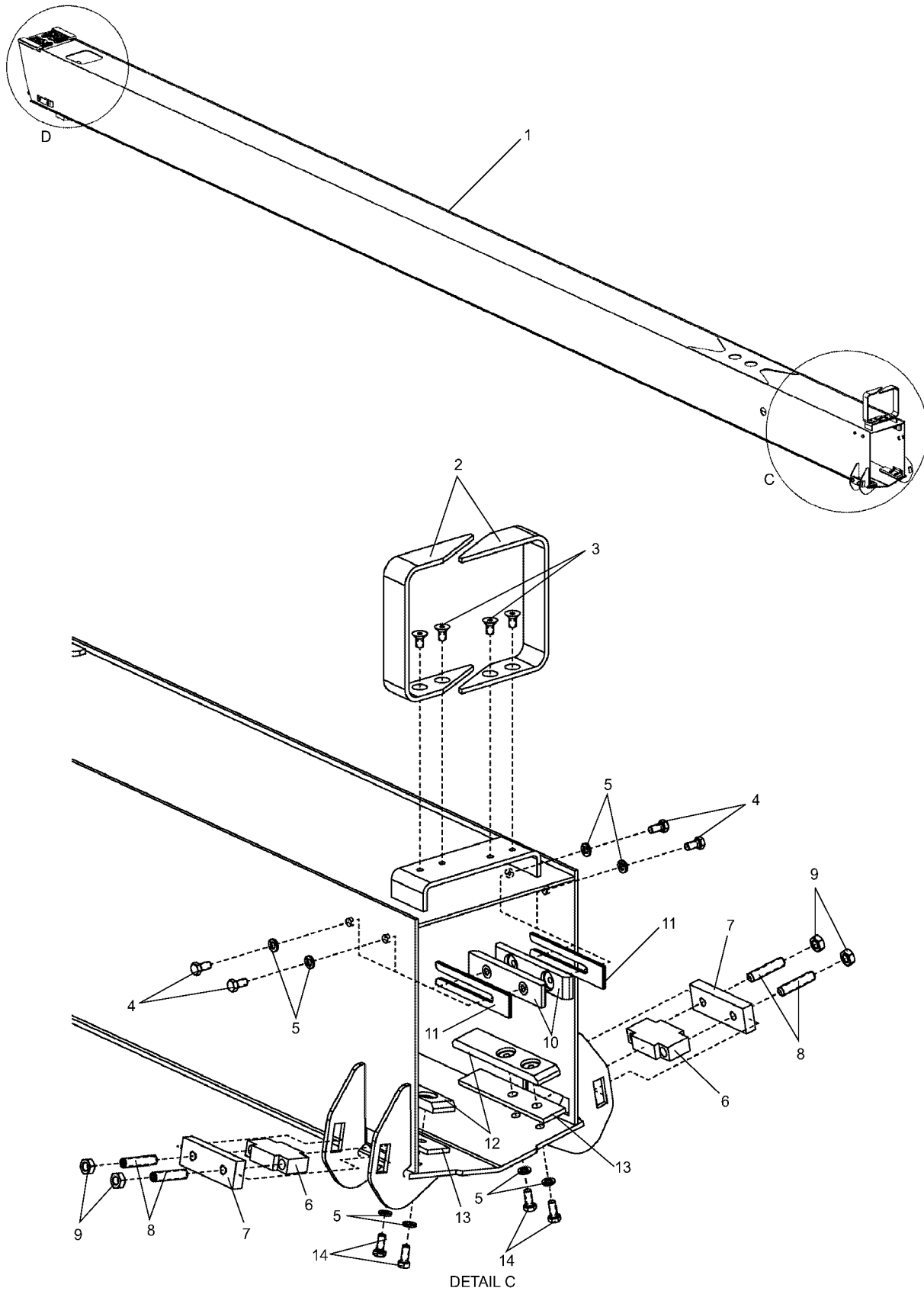
DETAIL B

**SEE PAGE 39.2**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	722-01376	Boom Weldment, Section 1 (Items 1-32)		17	N05-625C000-Y8	Nut, HEX JAM 0.625-11, ST YZ GR8	2
1	723-01545	Boom Weldment, Section 1	1	18	729-02888	Cover Plate, Boom Base	1
2	729-02875	Guide, Winch Cable	4	19	SHF-375C625-25	Screw, HHCS, FT 0.375-16X0.625, STZ G5	2
3	S16-375C500-BX	Screw, FHSCHS 0.375-16X0.50, ST BKOX	8	20	WAN-37NX000-20	Washer, FL TYPA-NRW 0.375, ST Z	4
4	SHF-375CA00-Y8	Screw, HHCS, FT 0.375-16X1.00, STYZ G8	4	21	729-02578	Pointer	2
5	W07-375X000-20	Washer, LCK, MED SPLT 0.375, ST Z	8	22	SHF-438CA25-25	Screw, HHCS FT 0.438X14X1.25, STZ G5	2
6	729-02862	Wear Pad, 6.00X1.25X0.50	2	23	N13-438C000-2A	Nut, HEX JAM HVY 0.438-14, ST Z GA	2
7	787-00329	Shim 6.00X1.25X0.048	8	24	N04-438C000-25	Nut, HEX 0.4375-14, ST Z GR5	2
8	729-02860	Wear Pad, Cast Iron	2	25	271-17004	Bearing 2.25 SHFT X 2.25, Teflon	2
9	729-02861	Plate, 4.38X1.50X0.625	2	26	789-05806	Cap Plate, Extend Cylinder	1
10	S32-500CB25-20	Screw, SSS CPT 0.50-13X2.25, ST Z	4	27	SHF-500CA25-Y8	SCR, HHCS FT 0.50-13 X 1.25, STYZ G8	4
11	N05-500C000-Y8	Nut, HEX JAM 0.50-13, ST YZ GR8	4	28	WAH-50NX000-Y2	Washer, FL HRD A-NRW 0.50, ST YZ	4
12	729-02833	Bar 7.00X1.50X0.75, STL Z	2	29	N04-A25C000-Y8	Nut, HEX 1.25-7, ST YZ GR8	2
13	SHF-375CA00-25	Screw, HHCS, FT 0.375-16X1.00, STZ G5	2	30	N05-A25C000-Y8	Nut, HEX JAM 1.25-7, ST YZ GR8	2
14	S01-375CA37-Y8	Screw, HHCS 0.375-16X1.375, ST YZ G8	4	31	861-17054	Wire Rope Assembly, 0.625X576.50	2
15	861-13026	Wire Rope Assembly, 0.3125X331.00	2	32	729-02832	Anchor, Retract Rope	1
16	N04-625C000-Y8	Nut, HEX 0.625-11, ST YZ GR8	2				

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

	<b>BOOM ASSEMBLY</b> 70' Base	DATE: Revised 07-2009	<b>GROUP</b> <b>39</b>
		MODEL: BT3870	
		PAGE 39.3	



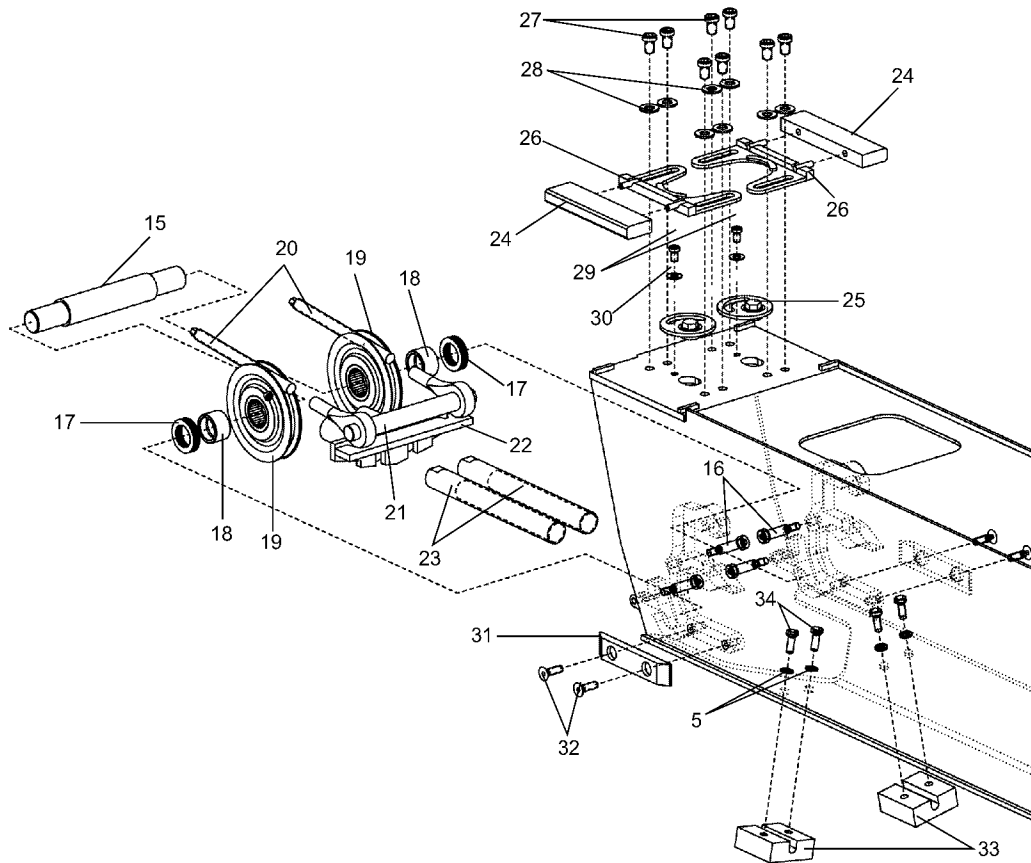
DETAIL C

**SEE PAGE 39.5**

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

	<p align="center"><b>BOOM ASSEMBLY</b> 70' 2ND Stage</p>	DATE: Revised 07-2009	<p align="center"><b>GROUP</b> <b>39</b></p>
		MODEL: BT3870	
		PAGE 39.4	





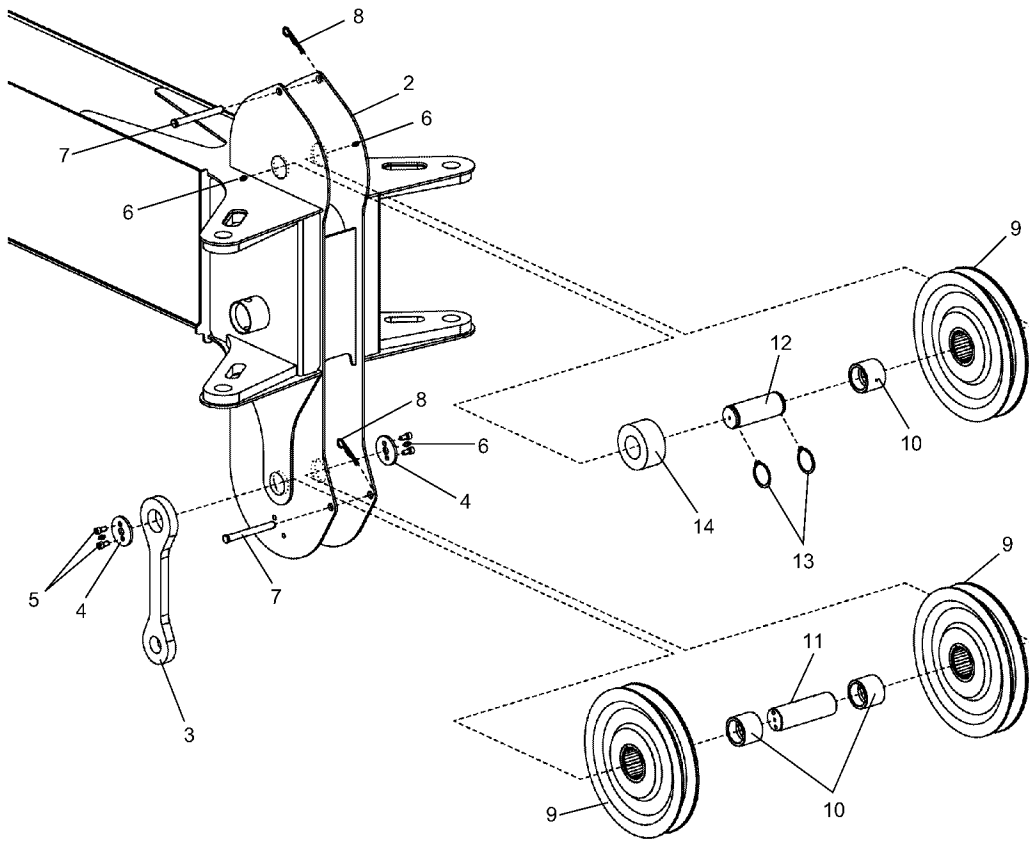
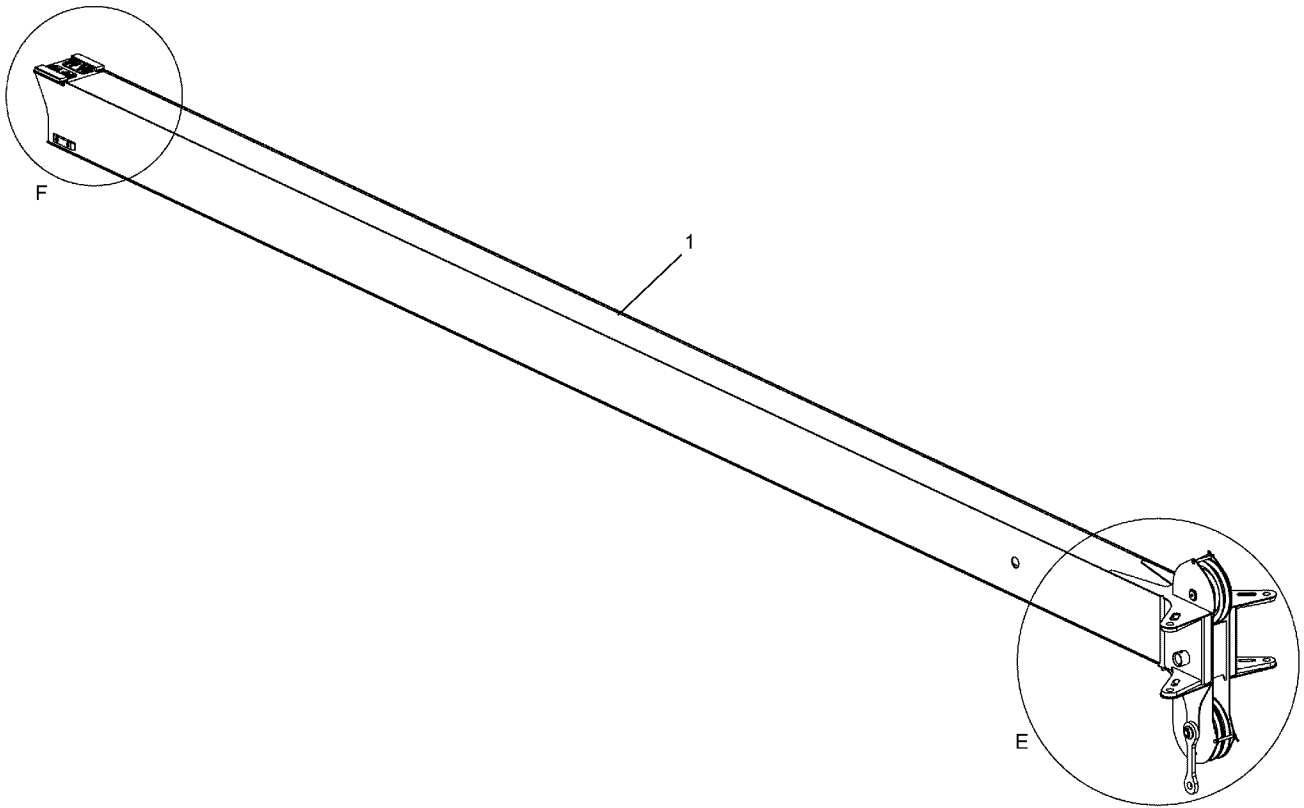
DETAIL D

**SEE PAGE 39.4**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	722-01363	Boom Weldment, Section 2 (Items 1-34)		18	274-20004	Bearing, Inner Race, 1.25 Shaft	2
1	723-01531	Boom Weldment, Section 2	1	19	860-10009	Sheave Assembly, Boom Retract	2
2	729-02875	Guide, Winch Cable	2	20	861-13026	Wire Rope Assembly, 0.3125X331.00	2
3	S16-375C500-BX	Screw, FSHCS 0.375-16X0.50, ST BKOX	4	21	870-20267	Shaft, Retract 1.00X8.63	1
4	SHF-375C750-Y8	Screw, HHCS FT 0.375-16X0.75, STYZ G8	4	22	770-02794	Plate Weldment, Rope Anchor	1
5	W07-375X000-20	Washer, LCK, MED SPLT 0.375, ST Z	12	23	861-17054	Wire Rope Assembly, 0.625X576.50	2
6	729-02860	Wear Pad, Cast Iron	2	24	729-02836	Wear Pad 7.00X1.75X0.75	2
7	729-02861	Plate, 4.38X1.50X0.625	2	25	729-02842	Eccentric Weldment	2
8	S32-500CB25-20	Screw, SSS CPT 0.50-13X2.25, ST Z	4	26	729-02829	Retainer Weldment, Wear Pad	2
9	N05-500C000-Y8	Nut, HEX JAM 0.50-13, ST YZ GR8	4	27	SLH-500C750-BX	Screw, LSHCS 0.50-13X0.75, ST BKOX	8
10	729-02862	Wear Pad, 6.00X1.25X0.50	2	28	WAH-50NX000-Y2	Washer, FL HRD A-NRW 0.50, ST YZ	8
11	787-00329	Shim 6.00X1.25X0.048	8	29	SLH-375C625-BX	Screw, LSHCS 0.375-16X0.625, ST BX	2
12	729-02838	Wear Pad 7.00X1.75X0.62	4	30	WAN-37NX000-20	Washer, FL TYPA-NRW 0.375, ST Z	2
13	729-02834	Plate 7.00X1.50X0.25	2	31	729-02872	Wear Pad 6.00X1.25X0.50	2
14	SHF-375C875-Y8	Screw, HHCS FT 0.375-16X0.88, STYZ G8	4	32	S16-375CA00-BX	Screw, FSHCS 0.375-16X1.00, ST BKOX	4
15	870-30231	Shaft, Sheave 1.50X10.375	1	33	729-02856	Wear Pad 3.00X3.00X1.125	2
16	S20-500CA50-HP	Screw, SHSS 0.50X1.50, STL	4	34	SHF-375CA00-25	Screw, HHCS, FT 0.375-16X1.00, STZ G5	4
17	1208-28	Shim Round 1.25X1.875X0.048, ST Z	18				

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

	<b>BOOM ASSEMBLY</b> 70' 2ND Stage	DATE: Revised 07-2009	<b>GROUP</b> <b>39</b>
		MODEL: BT3870	
		PAGE 39.5	

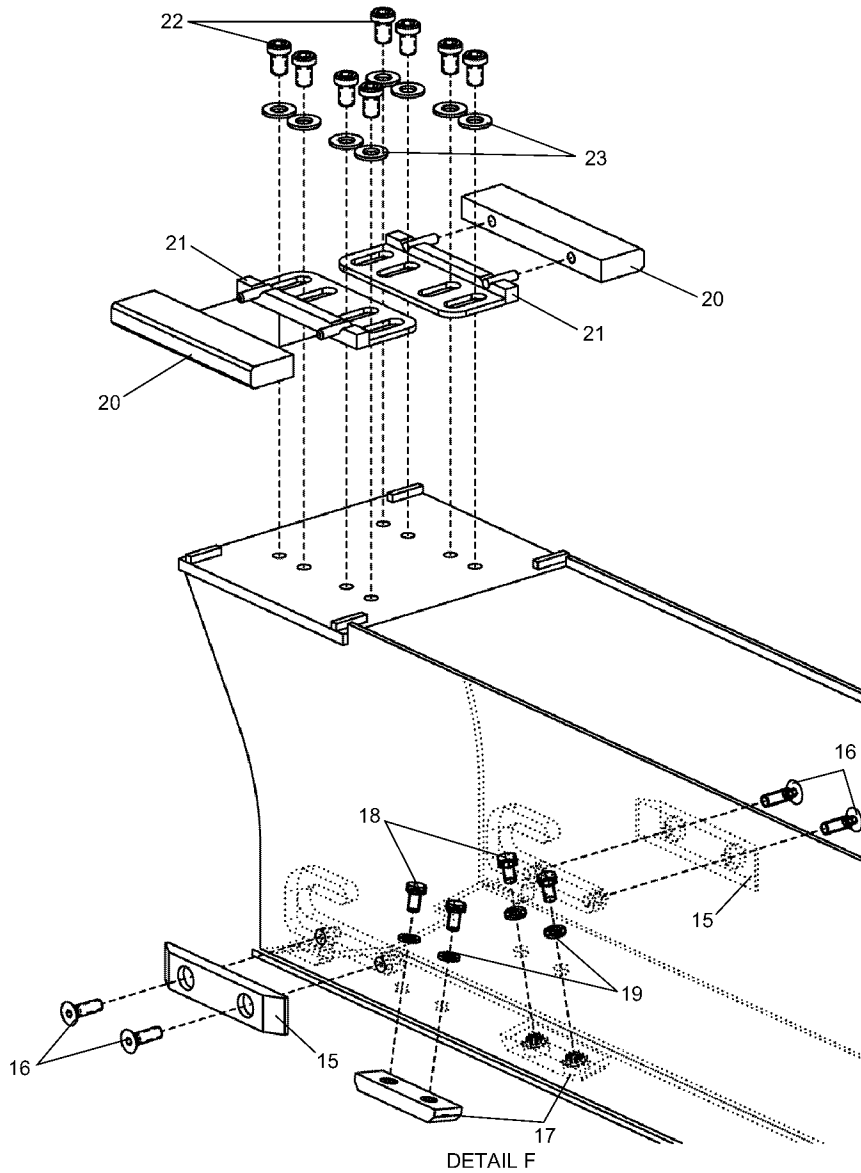


DETAIL E

**SEE PAGE 39.7**

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

	<p align="center"><b>BOOM ASSEMBLY</b> 70' 3RD Stage</p>	DATE: Revised 07-2009	<p align="center"><b>GROUP</b> <b>39</b></p>
		MODEL: BT3870	
		PAGE 39.6	

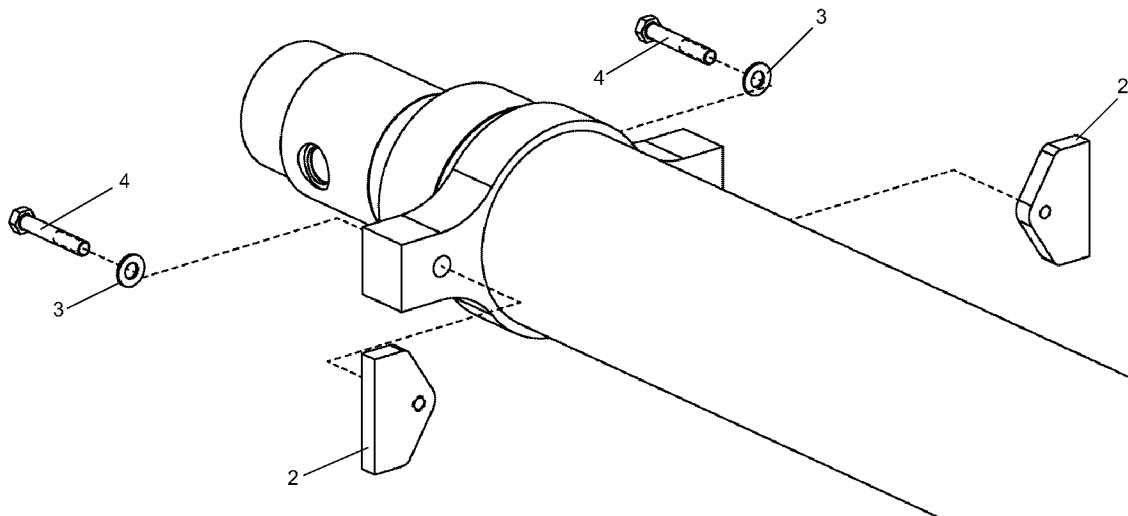
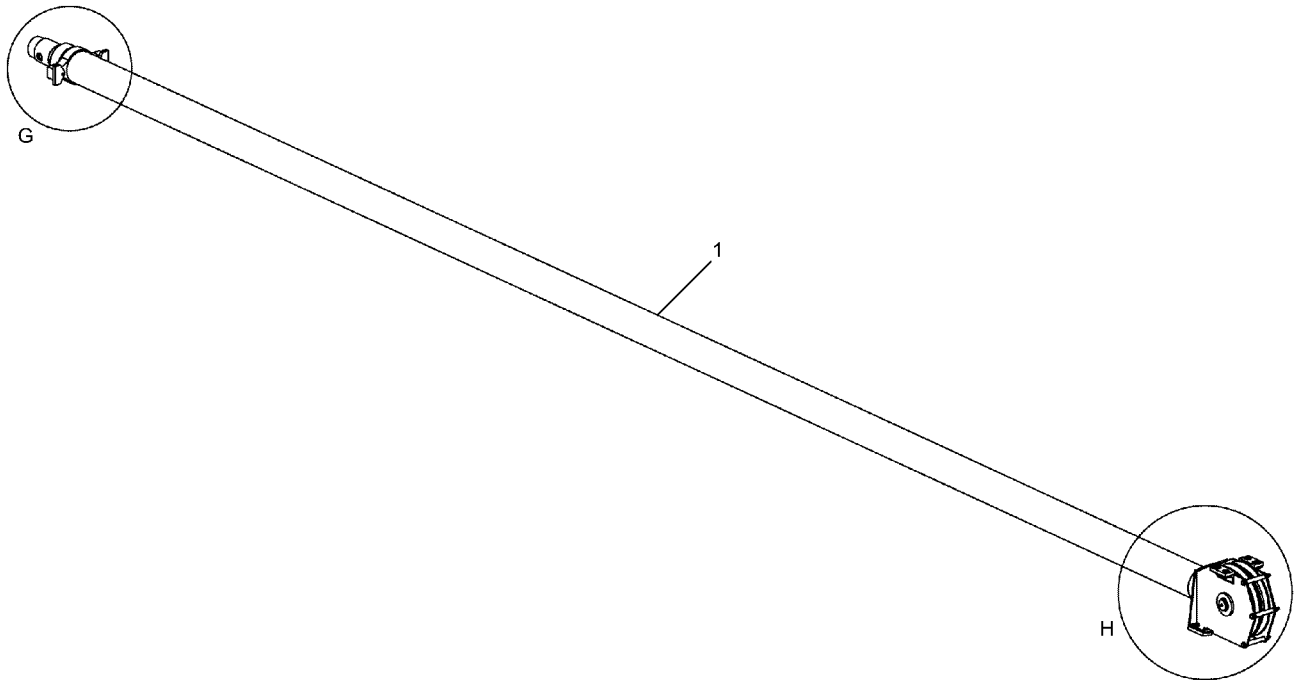


**SEE PAGE 39.6**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	722-01361	Boom Weldment, Section 3 (Items 1-23)		13	REX-A75X062-BP	Ring, EXTSNP 1.75X0.062, ST BPH	2
1	723-01529	Boom Weldment, Section 3	1	14	782-01735	Spacer, Cylinder 1.781X3.50X1.75	1
2	728-00039	Boom Head	1	15	729-02872	Wear Pad 6.00X1.25X0.50	2
3	729-02874	Key Plate, Winch Rope End	1	16	S16-375CA00-BX	Screw, FHSHCS 0.375-16X1.00, ST BKOX	4
4	729-02885	Plate, Round 2.25X0.188	2	17	729-02857	Wear Pad 4.00X1.125X0.50	2
5	S14-312C625-H2	Screw, SHCS 0.3125-18X0.625, ST Z	4	18	SHF-375C625-25	Screw, HHCS, FT 0.375-16X0.625, STZ G5	4
6	1213-07	Grease Fitting, ZERK, 0.25-28 STR	4	19	W07-375X000-20	Washer, LCK, MED SPLT 0.375, ST Z	4
7	P01-500XD50-20	Pin, Clevis 0.50X4.50, ST Z	2	20	729-02836	Wear Pad 7.00X1.75X0.75	2
8	PHP-125XB62-20	Pin, CTRHAIR 0.125X2.62X0.48, ST Z	2	21	729-02864	Retainer Weldment, Top Wear Pad	2
9	860-40050	Sheave Assembly	3	22	SLH-500C750-BX	Screw, LSHCS 0.50-13X0.75, ST BKOX	8
10	274-30004	Bearing, Inner race, 1.75 Shaft	3	23	WAH-50NX000-Y2	Washer, FL HRD A-NRW 0.50, ST YZ	8
11	870-50107	Pin, Sheave 1.747X5.56	1				
12	870-50106	Pin, Sheave 1.747X4.748	1				

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

	<b>BOOM ASSEMBLY</b> 70' 3RD Stage	DATE: Revised 07-2009	<b>GROUP</b> <b>39</b>
		MODEL: BT3870	
		PAGE 39.7	

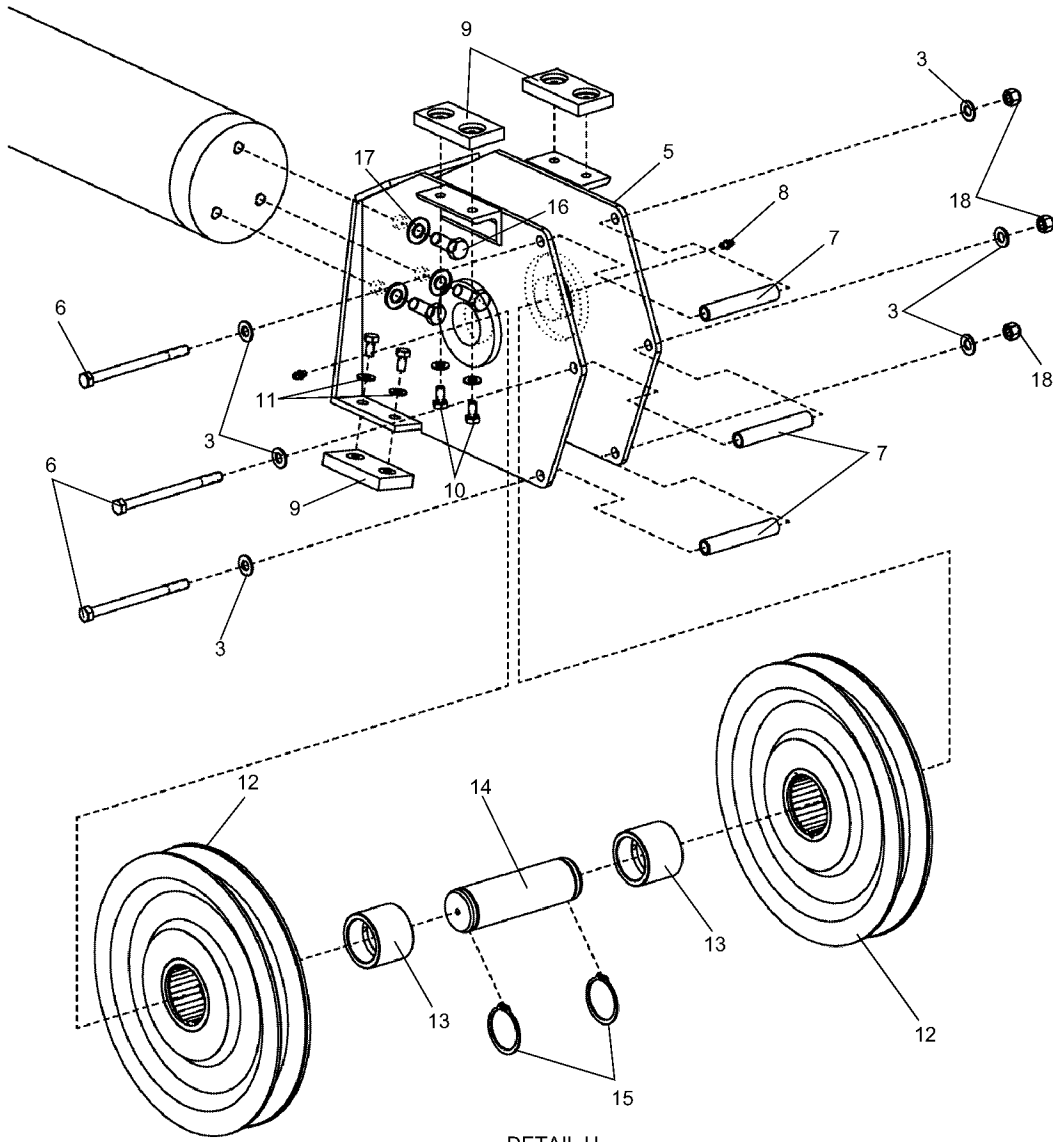


DETAIL G

**SEE PAGE 39.9**

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

	<b>EXTENSION CYLINDER ASSEMBLY</b> 70' Boom	DATE: Revised 07-2009	<b>GROUP</b> <b>39</b>
		MODEL: BT3870	
		PAGE 39.8	



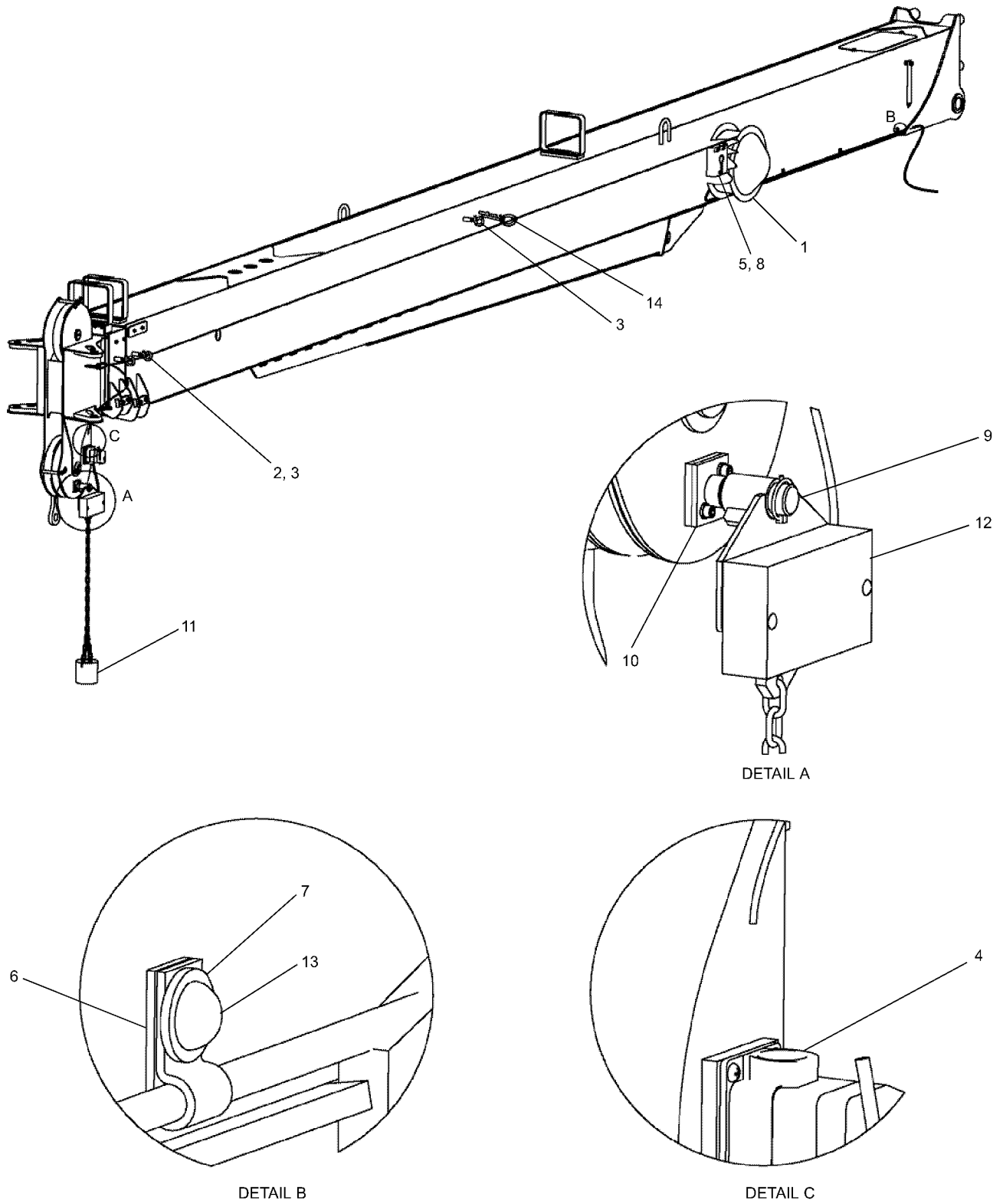
DETAIL H

**SEE PAGE 39.8**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	548-00059	Cylinder Assembly, Boom Extend (Items 1-19)		10	SHF-312C625-25	Screw, HHCS FT 0.312-18X0.625, ST Z G5	8
1	540-50044	Cylinder, HYD 3.75 BoreX256.00	1	11	WAN-31NX000-20	Washer, FL TYPA-NRW 0.3125, ST Z	8
2	729-02855	Retain Key, Extend Cylinder	2	12	860-40048	Sheave Assembly, 0.625 Rope	2
3	WAN-37NX000-20	Washer, FL TYPA-NRW 0.375, ST Z	8	13	274-30004	Bearing, Inner Race, 1.75 Shaft	2
4	S01-375CB25-Y8	Screw, HHCS 0.375-16X2.25, ST YZ GR8	2	14	870-50059	Pin, Sheave 1.747X5.6875	1
5	722-01372	Bracket Weldment, Sheave	1	15	REX-A75X062-BP	Ring, EXTSNP 1.75X0.062, ST BPH	2
6	S01-375CE00-25	Screw, HHCS 0.375-16X5.00, ST Z GR5	3	16	SHF-500CA25-Y8	Screw, HHCS FT 0.50-13X1.25, ST YZ G8	3
7	782-01238	Spacer, Cylinder 0.45X0.625X3.563	3	17	WAH-50NX000-Y2	Washer, FL HRD A-NRW 0.50, ST YZ	3
8	1213-07	Grease Fitting, ZERK, 0.25-28 STR	2	18	NYL-375C000-25	Nut, HEX NYL - INS 0.375-16, ST Z G5	3
9	729-02890	Wear Pad 3.50X1.75X0.50	4				

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

	<b>EXTENSION CYLINDER ASSEMBLY</b> 70' Boom	DATE: Revised 07-2009	<b>GROUP</b> <b>39</b>
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		PAGE 39.9	



**SEE PAGE 39.11**

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

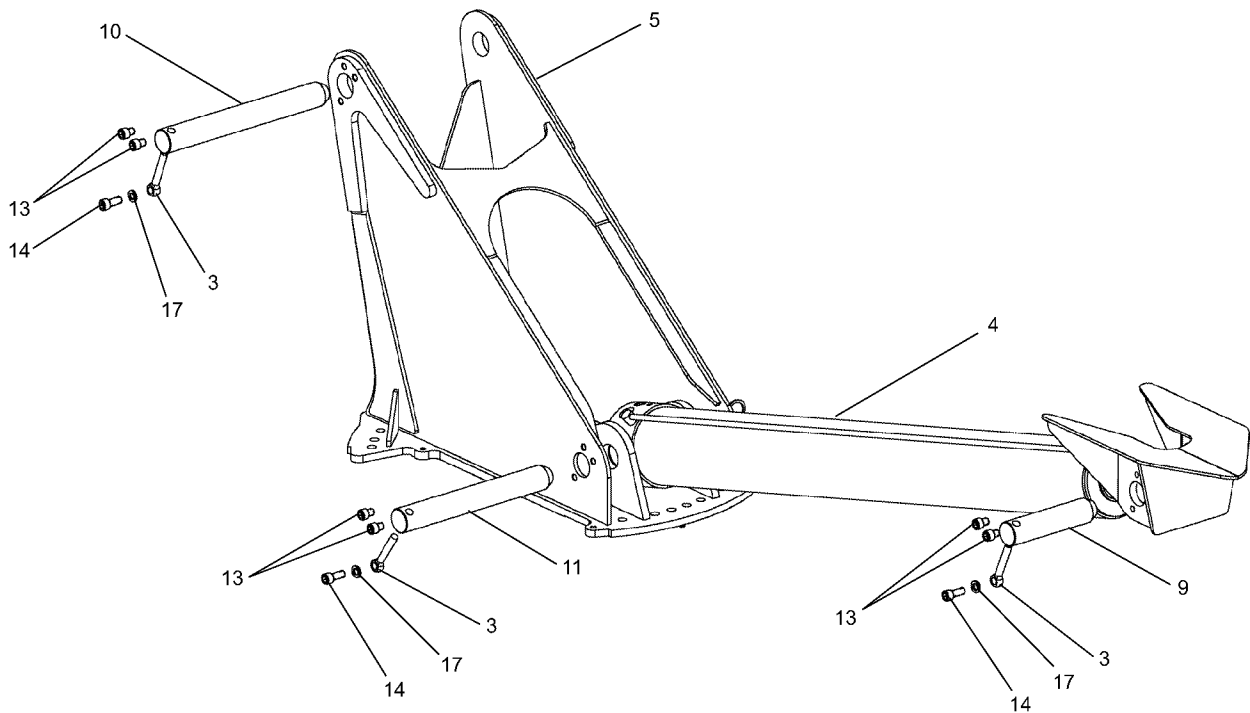
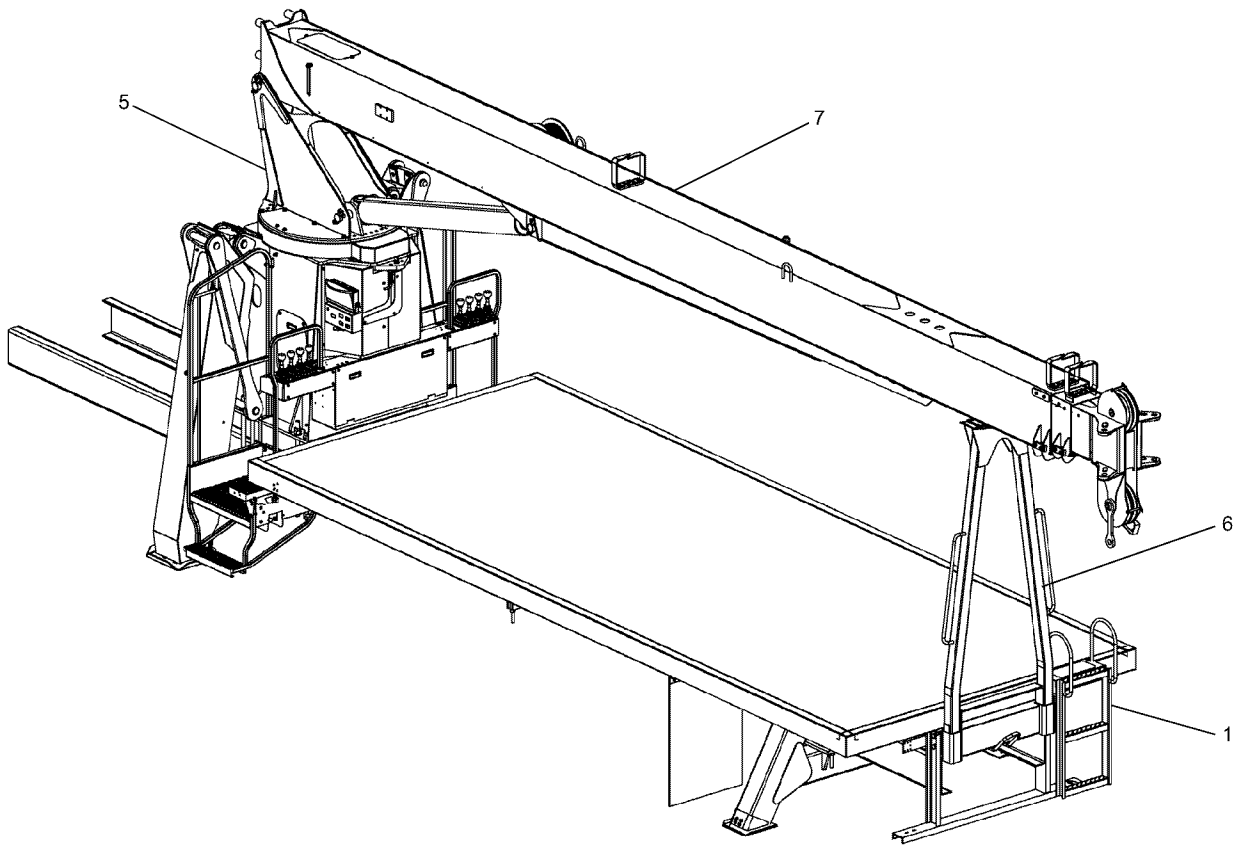
	<p><b>CABLE GUIDE INSTALLATION</b> 70' Boom</p>	DATE: Revised 07-2009	<p><b>GROUP</b> <b>39</b></p>
		MODEL: BT3870	
		PAGE 39.10	

**SEE PAGE 39.10**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-00192	<i>LMI Installation (Items 1-14)</i>	
1	861-90532	Greer Reel .....	1
2	865-00029	LMI Cable Guide.....	3
3	221-00027-3	HEX Nut 3/8-16 GR5 Zinc .....	3
4	220-00073-5	RHMS 10-24 X 3/8 Phillips Head .....	4
5	220-02070-7	HHCS 3/8-16 X 5/8 GR5 Zinc.....	3
6	201-00141	Clamp 1/4" X 0.40 Hole .....	4
7	222-00025-6	-- .....	4
8	222-00025-8	-- .....	3
9	729-02729	LMI Switch Bracket Weldment.....	1
10	774-00054	LMI Switch Bracket .....	1
11	717 0882	LMI Switch Counterweight w / Chain .....	1
12	861-90434	LMI Switch Assembly .....	1
13	226-00026-2	AL Button Head Rivet 1/4 DiaX0.625 Len .....	4
14	865-00030	LMI Cable Guide.....	1

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

	<b>CABLE GUIDE INSTALLATION</b> 70' Boom	DATE: Revised 07-2009	<b>GROUP</b> <b>39</b>
		MODEL: BT3870	
		PAGE 39.11	

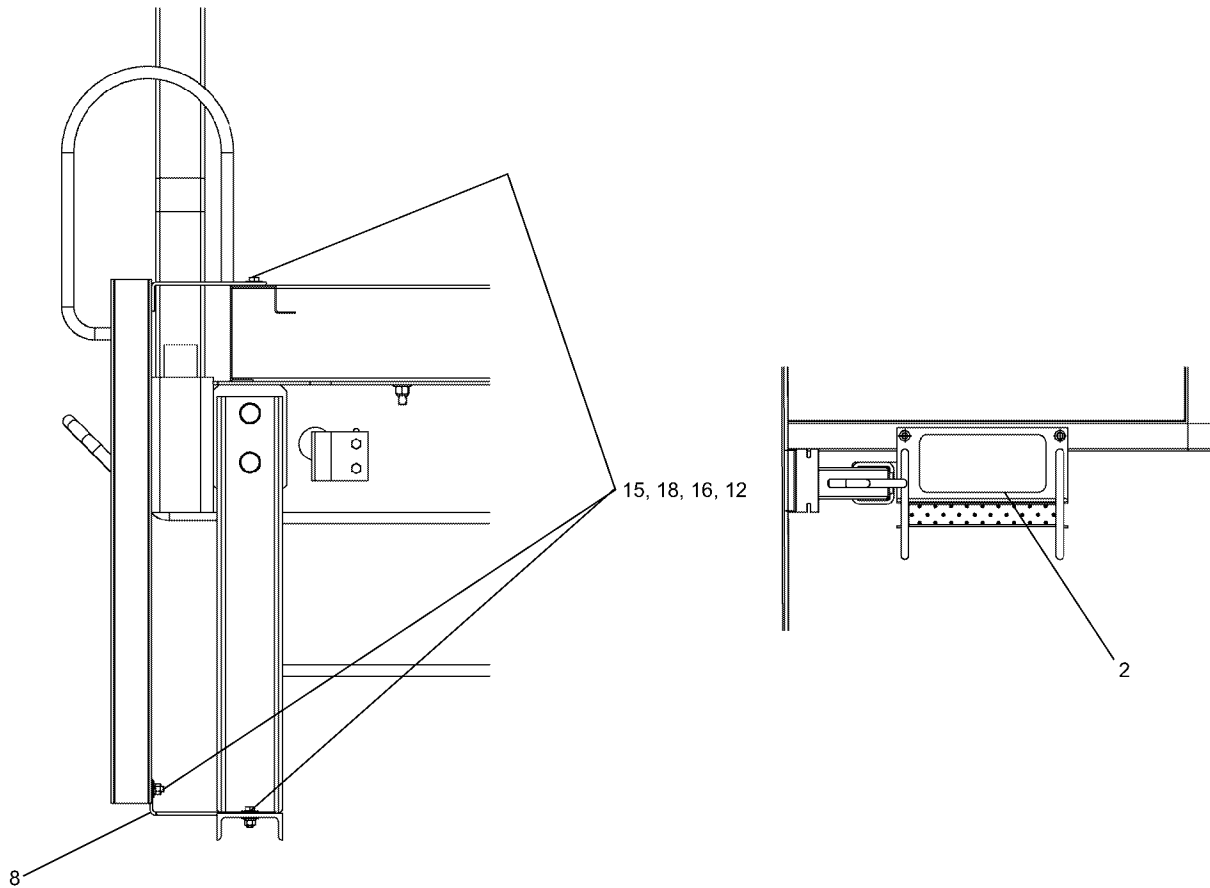


**SEE PAGE 39.13**

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

	<b>BOOM AND TOPPING CYLINDER INSTALLATION</b>	DATE: Revised 07-2009	<b>GROUP 39</b>
		MODEL: BT3870	
		PAGE 39.12	



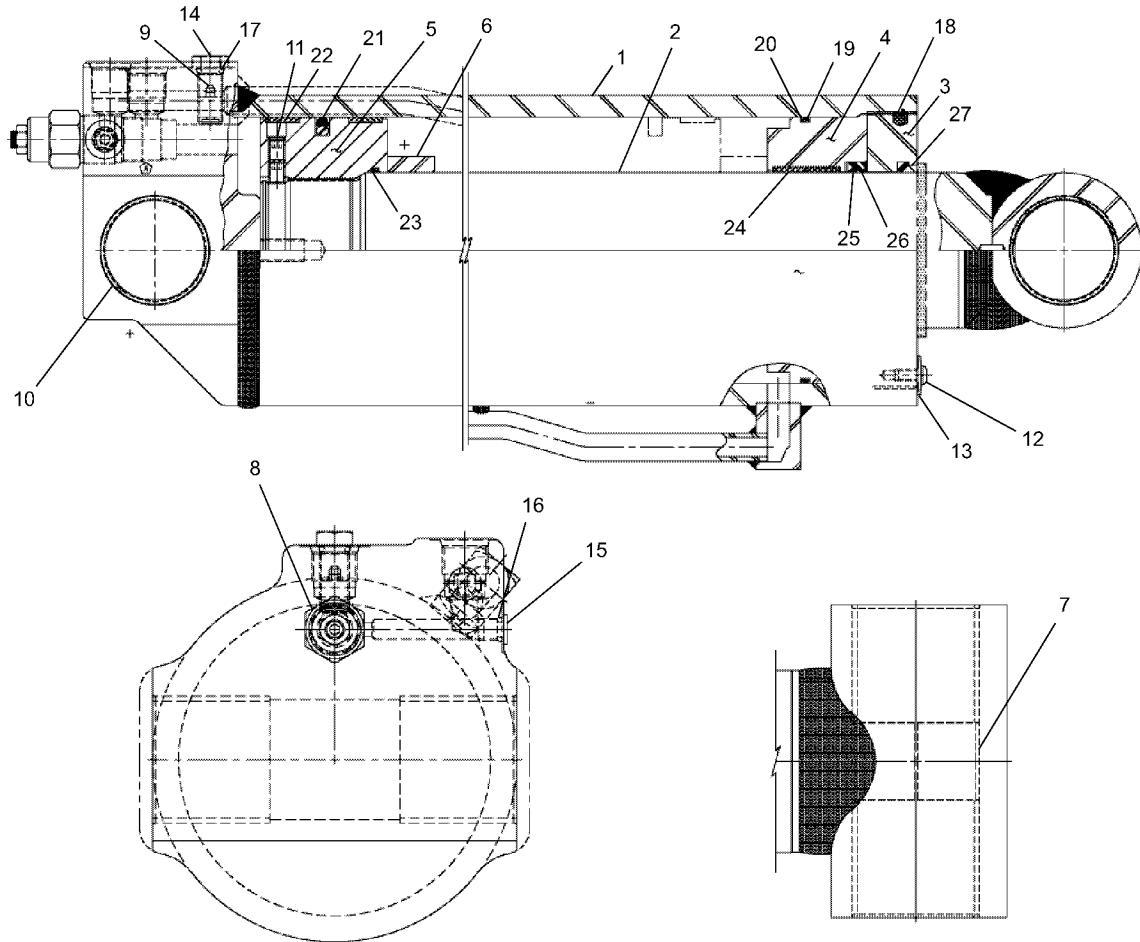


**SEE PAGE 39.12**

REF	PART NO.	DESCRIPTION	QTY
	695-10020	Structural Assembly, BT 3870 (Items 1-18)	
1	024-00009	Ladder Weldment .....	1
2	209-00871	Anti Slip Tape, Ladder .....	1
3	224-26005	Rod End 0.625 X 4.25 .....	3
4	540-80096	Cylinder, Hydraulic, Boom Hoist .....	1
5	695-10019	Truck Attach Main Assembly .....	REF
6	698-00065	Boom Rest Assembly .....	1
7	721-00243	Boom Assembly .....	1
8	798-05812	Ladder SPT BRKT .....	1
9	870-70071	Boom Pivot Pin .....	1
10	870-70072	Boom Pivot Pin .....	1
11	870-70073	Boom Pivot Pin .....	1
12	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5 .....	6
13	S14-625C750-H2	Screw, SHCS 0.625-11 X 0.75, ST Z .....	6
14	S14-625CA50-H2	Screw, SHCS 0.625-11 X 1.50, ST Z .....	3
15	SHF-375CA00-25	Screw, HHCS FT 0.375-16X1.00, STZ G5 .....	6
16	W07-375X000-20	Washer, LCK, MED SPLT 0.375, ST Z .....	6
17	W07-625X000-20	Washer, LCK, MED SPLT 0.625, ST Z .....	3
18	WBR-37RXA00-20	Washer, FL TYPB-REG 0.375, ST Z .....	10

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

	<b>BOOM AND TOPPING CYLINDER INSTALLATION</b>	DATE: Revised 07-2009	<b>GROUP 39</b>
		MODEL: BT3870	
		PAGE 39.13	

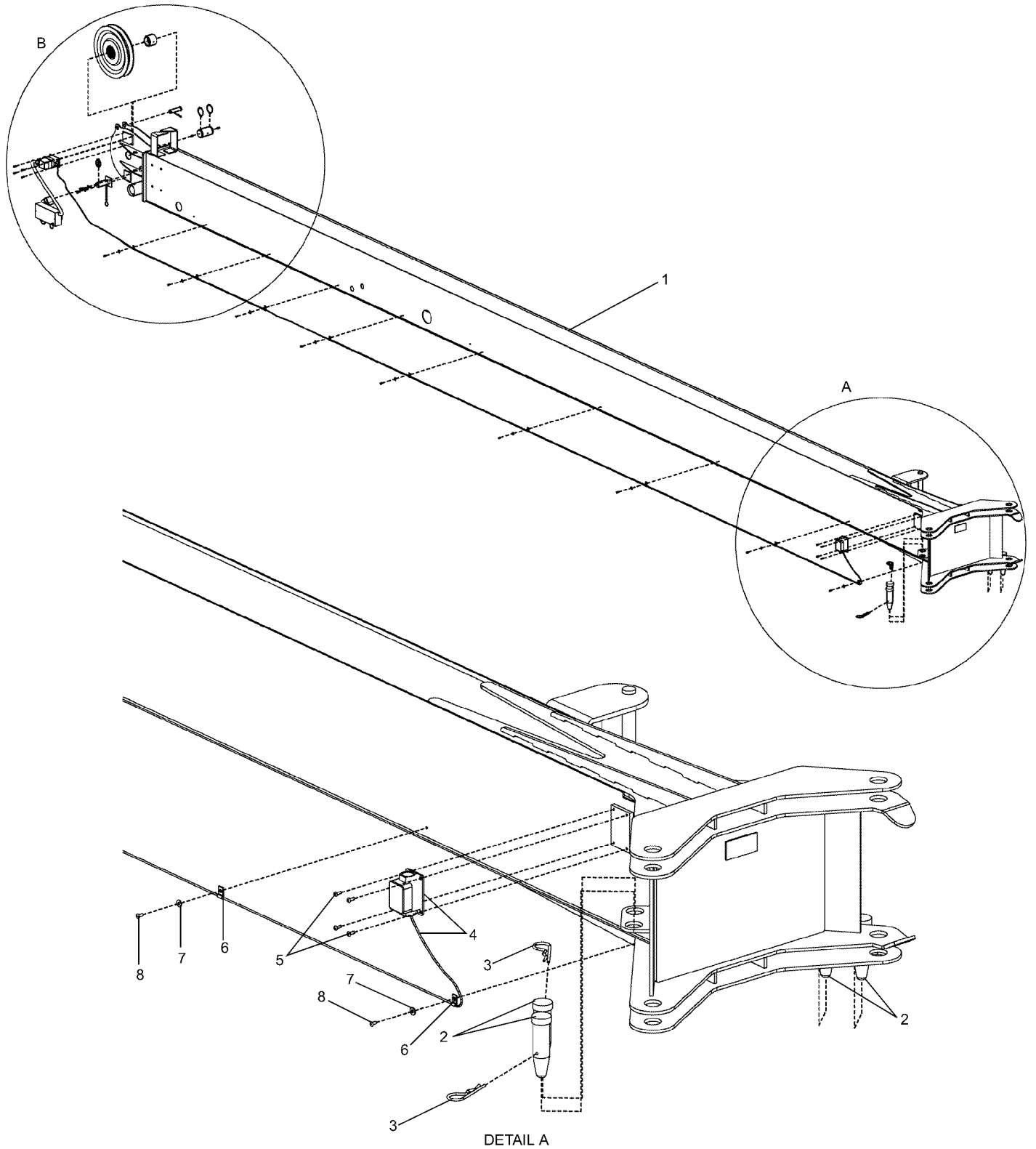


BOTTOM END VIEW

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	540-80096	Cylinder, Hydraulic, Boom Hoist (Items 1-27)					
1	346-00807	Case Weld G 6.000 68.688L .....	1	18	PART OF		
2	346-00806	Rod Weld G 3.500 69.625L .....	1	268-90201	Plug Nylon G .313D .250L.....	1	
3	346-00695	THRD Ring D 6.250-12 B 3.500 .....	1	19	PART OF		
4	346-00696	Head D 6.000 3.500 2.250L STL .....	1	268-90201	Backup 256 6.0000D .125CS HYT.....	1	
5	346-00805	Piston G 6.000 3.250 2.875L .....	1	20	PART OF		
6	346-00804	Spacer G 3.510 4.250 1.063L.....	1	268-90201	Oring 256 6.0000D 70 N .125CS .....	1	
7	346-00599	Bush Spacer G 2.245 2.375 .....	1	21	PART OF		
8	552-00145	Valve CBAL CBEA-LHN 4000 .....	1	268-90201	Seal 6.000 5.173 .323 TFE GLYD.....	1	
9	346-00699	Valve VEL Fuse RBE-9/16-18SAE .....	1	22	PART OF		
10	271-17004	BUSH 2.250 2.438 2.250 FG.....	4	268-90201	Wring 6.000 5.750 .750L SC.....	2	
11	346-00734	SHSS .375-16 .500 CUP PT * .....	4	23	PART OF		
12	346-00701	BHCS .250-20 .500.....	1	268-90201	Oring 238 3.7500D 70N .125CS .....	1	
13	346-00702	Lockwasher Dished .8750D .039T .....	1	24	PART OF		
14	346-00704	Plug SAE 6 .563-18 HH STL .....	1	268-90201	Wring 3.750 3.500 .750 GF .....	2	
15	346-00703	Plug SAE 4 .438-20 SH STL.....	1	25	PART OF		
16	PART OF			268-90201	UCUP 3.500R .250CS .375 DZ.....	1	
17	PART OF			26	PART OF		
268-90201	Oring 904 .4950D 70N .072CS.....	1	268-90201	UCB G 3.520 3.995 .063 NYT.....	1		
268-90201	Oring 906 .6240D 70N .078CS.....	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

	<h2>TOPPING CYLINDER</h2>	DATE: Revised 07-2009	<b>GROUP</b>  <b>39</b>
		MODEL: BT3870	
		PAGE 39.14	



**SEE PAGE 39A.2**

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



**JIB ASSEMBLY - SINGLE STAGE**

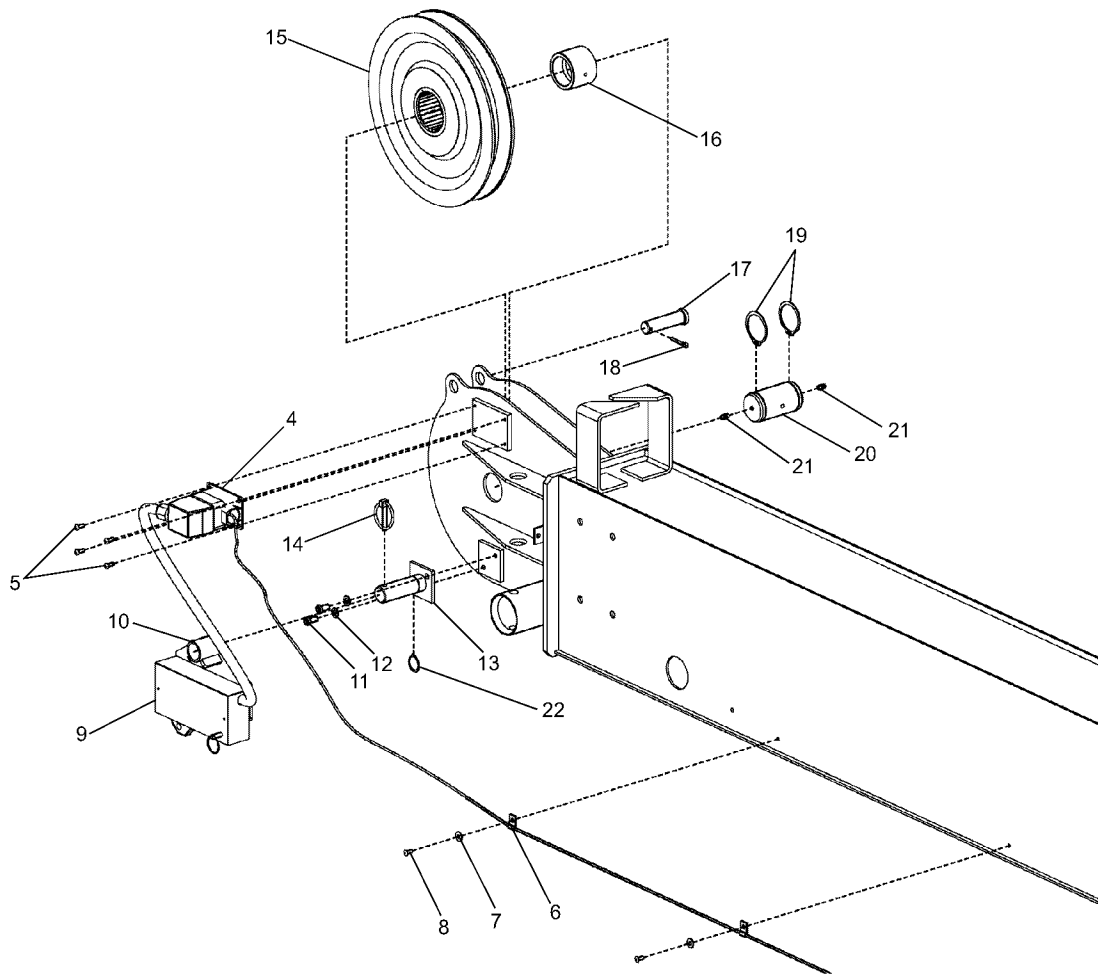
DATE: Revised 07-2009

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GROUP

**39A**



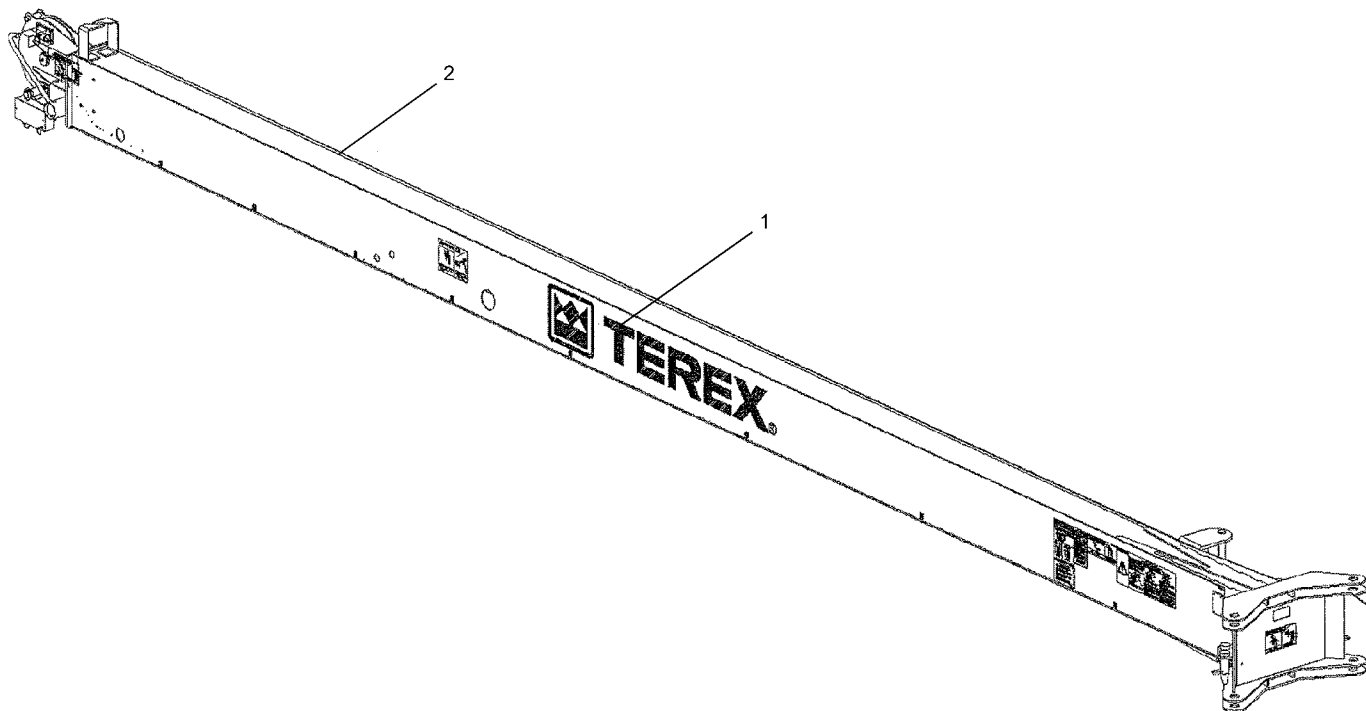
DETAIL B

**SEE PAGE 39A.1**

REF	PART NO.	DESCRIPTION	QTY
	730-51354	<i>Jib Assembly 24 FT-1 Stage (Items 1-22)</i>	
1	730-51359	Jib Base Weldment -1 Stage .....	1
2	870-30221	Pin 1.281 DIA, Jib Install .....	4
3	PHP-178XC75-20	Pin,CTRHAIR 0.178X3.75X1.03,ST Z .....	4
4	400-25212	LMI Harness Assembly-1 Stage .....	1
5	SD1-190C375-20	Screw,CREC RND MS 10-24X0.375,ST Z.....	8
6	201-00171	Clamp 0.125 DIA Tube .....	9
7	WAR-216X000-22	Washer, FL TYPA-REG 12, ST Z .....	9
8	VBB187X450-L5	RVT, BTNHD, BLND 0.187X0.45, AL.....	9
9	861-90434	ATB Switch, Heavy Duty .....	REF
10	729-02729	Bracket Weldment, LMI-ATB Switch .....	1
11	SLH-312C625-BX	Screw, LSHCS 0.312-18X0.625,ST BX.....	REF
12	W07-312X000-20	Washer, LCK, MED SPLT 0.3125, ST Z.....	REF
13	774-00054	Adapter Bracket, ATB SW .....	1
14	PLP-250XA56-20	Pin, LYNCH 0.25 X 1.562, ST Z .....	REF
15	860-40050	Sheave Assembly .....	1
16	274-30004	Bearing, Inner Race, 1.75 Shaft.....	1
17	P01-750XB75-P0	Pin, Clevis 0.75X2.75, STL .....	1
18	P02-158XA00-20	Pin, Cotter 0.1562X1.00, ST Z .....	1
19	REX-A75X062-BP	Ring,EXTSNP 1.75X0.062, ST BPH .....	2
20	870-50058	Pin, Sheave 1.749 X 3.188 .....	1
21	1213-07	Grease FTG, Zerk, 0.25-28 STR .....	2
22	REX-875X042-BP	Ring,EXTSNP 0.875X0.042, ST BPH .....	REF

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

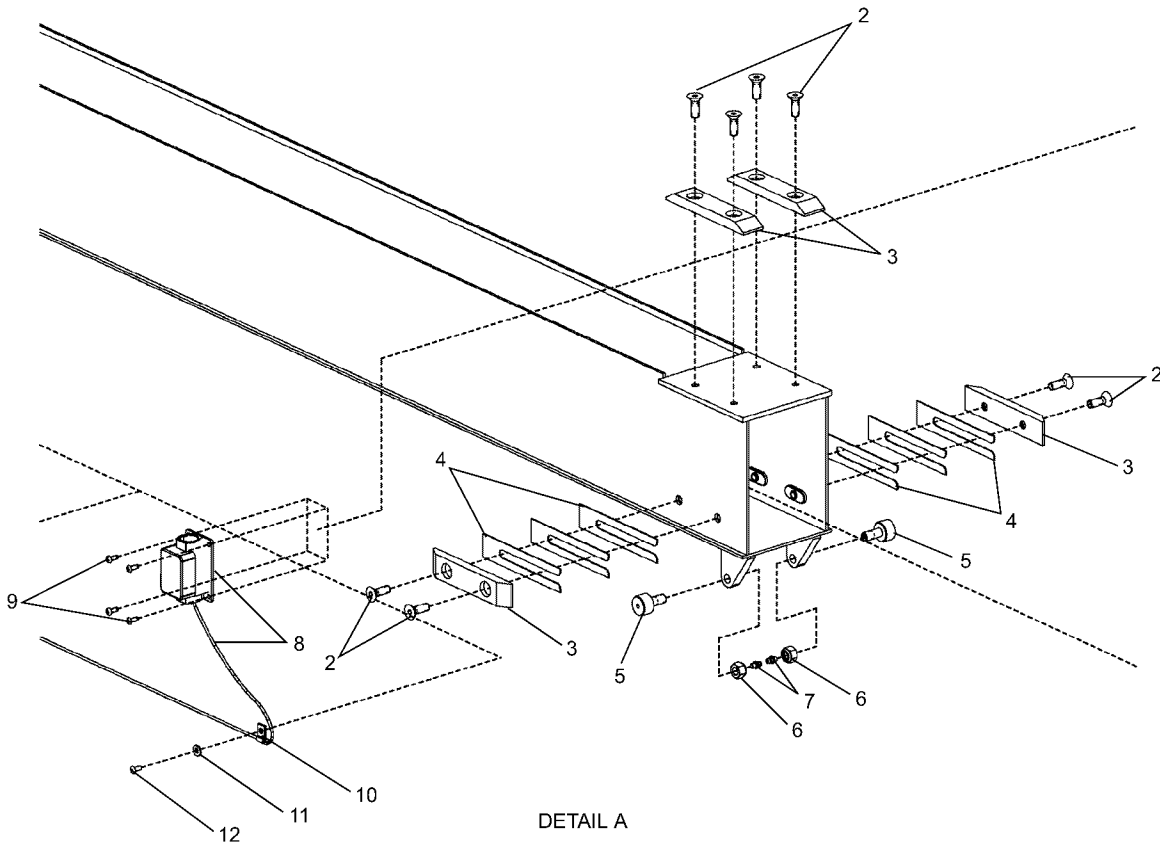
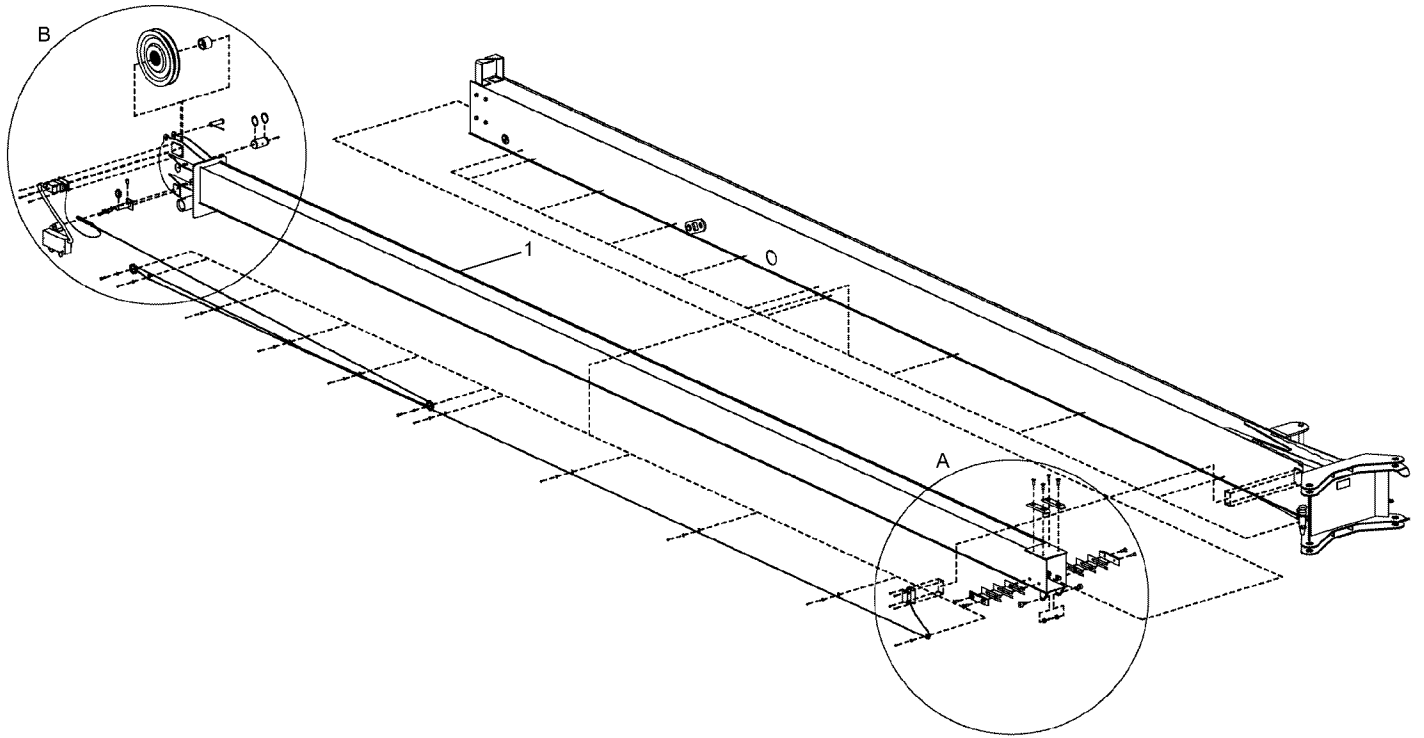
	<b>JIB ASSEMBLY - SINGLE STAGE</b>	DATE: Revised 07-2009	<b>GROUP</b> <b>39A</b>
		MODEL: BT3870	
		PAGE 39A.2	



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51364	<i>Jib Assembly, One Stage, White Decal (Items 1-2)</i>	
1	655-00017	Decal Install, Jib - White Terex.....	1
2	730-51354	Jib Assembly 24 FT-1 ST .....	1

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

	<b>JIB ASSEMBLY - SINGLE STAGE</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>39A</b>
		MODEL: BT3870	
		PAGE 39A.3	



DETAIL A

**SEE PAGE 39A.5**

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



**JIB ASSEMBLY - TWO STAGE**

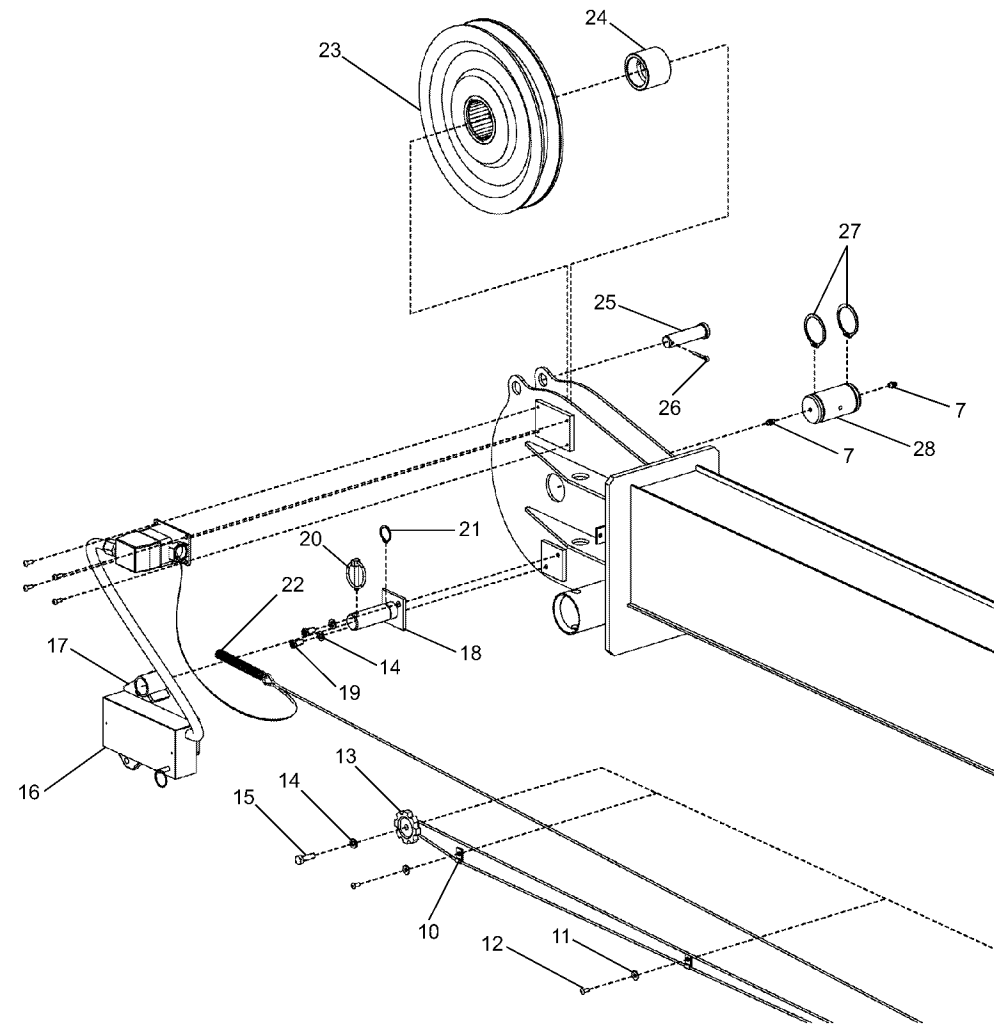
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GROUP

**39A**



DETAIL B

**SEE PAGE 39A.4**

REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	730-51353	Jib Assembly 24-40 FT - 2 Stage (Items 1-28)					
1	730-51358	Jib Stinger Weldment.....	1	15	SHF-312CA00-25	Screw,HHCS FT 0.312-18X1.00, STZ G5.....	2
2	S16-375C875-20	Screw,FHSHCS 0.375-16X0.875, ST Z.....	8	16	861-90434	ATB Switch, HVY Duty.....	REF
3	729-02872	Wear Pad 6.00 X 1.25 X 0.50.....	4	17	729-02729	Bracket Weldment, LMI - ATB Switch.....	1
4	787-00329	Shim 6.00 X 1.25 X 0.048.....	6	18	774-00054	Adapter Bracket, ATB Switch.....	2
5	1217-49	Cam Follower, CF 1S.....	2	19	SLH-312C625-BX	Screw, LSHSCS 0.312-18X0.625,ST BX.....	REF
6	NYL-438F000-Y8	Nut, HX NYL - INS 0.438-20, ST YZ G8.....	2	20	PLP-250XA56-20	Pin, LYNCH 0.25 X 1.562, ST Z.....	REF
7	1213-07	Grease FTG, Zerk, 0.25-28 STR.....	4	21	REX-875X042-BP	Ring,EXTSNP 0.875 X 0.042, ST BPH.....	REF
8	400-25104	LMI Harness Assembly - 2 ST.....	1	22	202-10066	Spring, Cable Tension.....	1
9	SD1-190C375-20	Screw,CREC RND MS 10-24X0.375, ST Z.....	8	23	860-40050	Sheave Assembly.....	1
10	201-00171	Clamp 0.125 DIA Tube.....	9	24	274-30004	Bearing, Inner Race, 1.75 Shaft.....	1
11	WAR-216X000-22	Washer, FL TYPA-REG 12, ST Z.....	9	25	P01-750XB75-P0	Pin, Clevis 0.75 X 2.75, STL.....	1
12	VBB187X450-L5	RVT, BTNHD, BLND 0.187X0.45, AL.....	9	26	P02-156XA00-20	Pin, Cotter 0.1562 X 1.00, ST Z.....	1
13	808-00047	Knob, Hand.....	2	27	REX-A75X062-BP	Ring,EXTSNP 1.75 X 0.062, ST BPH.....	2
14	W07-312X000-20	Washer, LCK, MED SPLT 0.3125, ST Z.....	2	28	870-50058	Pin, Sheave 1.749 X 3.188.....	1

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



**JIB ASSEMBLY - TWO STAGE**

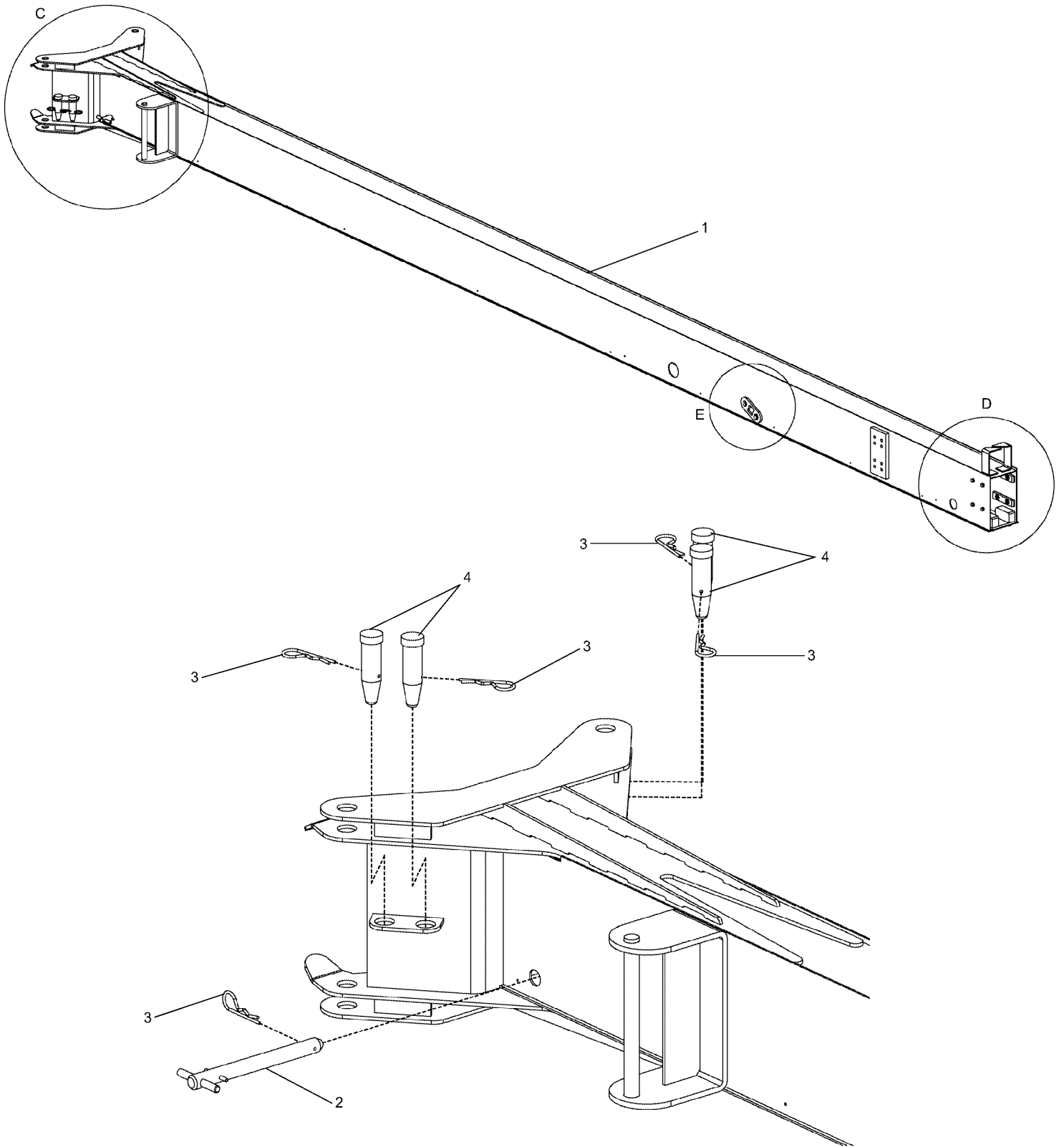
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GROUP

**39A**



DETAIL C

**SEE PAGE 39A.8**

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



**JIB ASSEMBLY - TWO STAGE**

DATE: Revised 07-2009

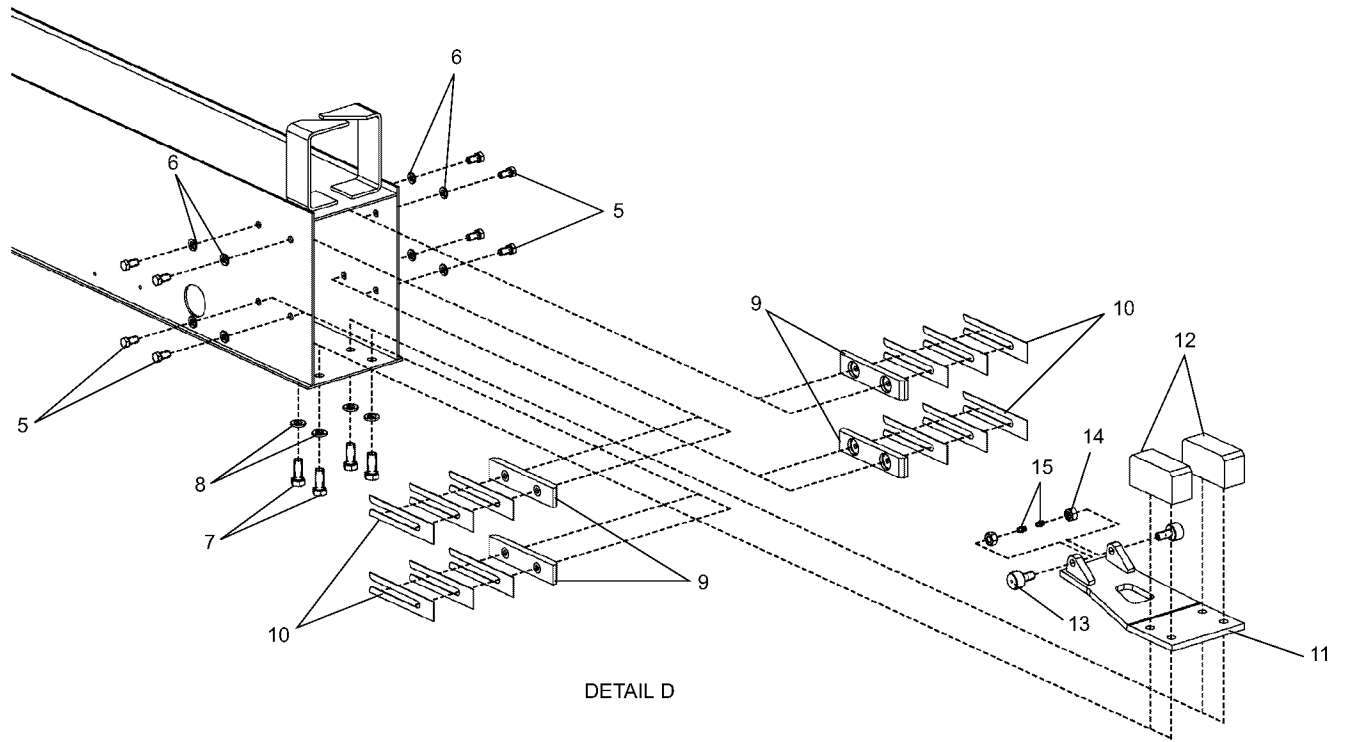
MODEL: BT3870

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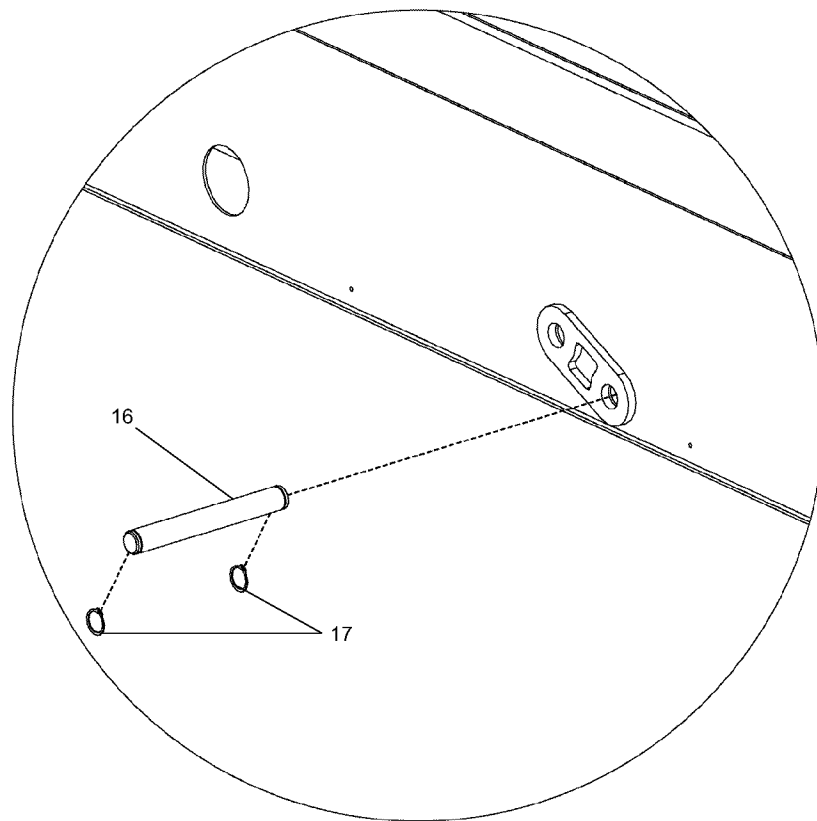
GROUP

**39A**





DETAIL D



DETAIL E

**SEE PAGE 39A.8**

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

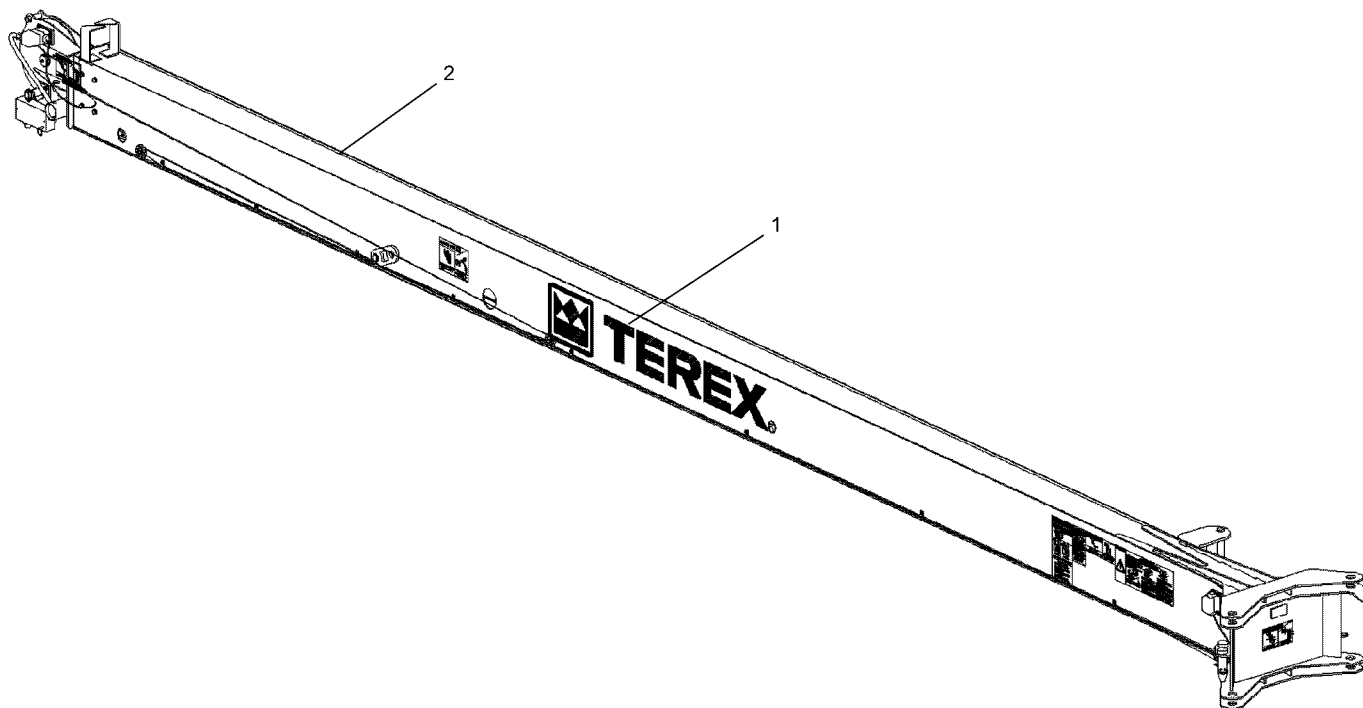
	<b>JIB ASSEMBLY - TWO STAGE</b>	DATE: Revised 07-2009	<b>GROUP</b> <b>39A</b>
		MODEL: BT3870	
		PAGE 39A.7	

**SEE PAGES 39A.6 & 39A.7**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51353	<i>Jib Assembly 24-40 FT-2 Stage (Items 1-17)</i>	
1	730-51360	Jib Base Weldment .....	1
2	870-20268	Pin Assembly, Jib Stinger Retaining .....	1
3	PHP-178XC75-20	Pin,CTRHAIR 0.178 X 3.75 X 1.03, ST Z .....	5
4	870-30221	Pin 1.281 DIA, Jib Install .....	4
5	SHF-375C750-Y8	Screw,HHCS FT 0.375-16X0.75,STYZ G8 .....	8
6	W07-375X000-20	Washer, LCK, MED SPLT 0.375, ST Z.....	8
7	SHF-500CA38-Y8	Screw,HHCS FT 0.50-13X1.375,STYZ G .....	4
8	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z.....	4
9	729-02862	Wear Pad 6.00 X 1.25 X 0.50.....	4
10	787-00329	Shim 6.00 X 1.25 X 0.048 .....	12
11	730-51351	Support Weldment, Roller.....	1
12	783-03719	Block 4.00 X 2.00 X 1.50.....	2
13	1217-49	Cam Follower, CF 1S .....	2
14	NYL-438F000-Y8	Nut, HX NYL - INS 0.438 - 20, ST YZ G8 .....	2
15	1213-07	Grease FTG, Zerk, 0.25 - 28 STR .....	2
16	870-20227	Pin Retaining 1.00 X 8.00.....	1
17	REX-A00X042-BP	Ring,EXTSNP 1.00 X 0.042, ST BPH .....	2

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

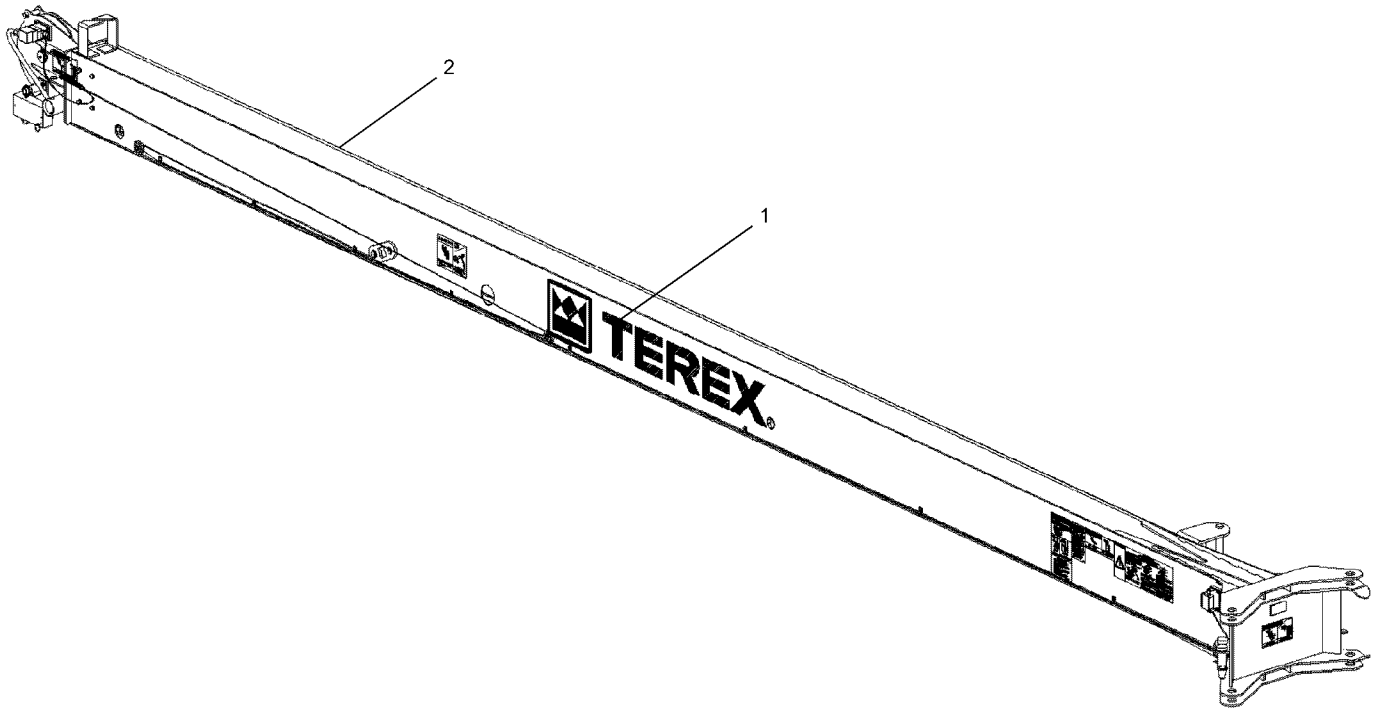
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		MODEL: BT3870	
		PAGE 39A.8	



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51361	<i>Jib Assembly, Two Stage, Black Decal (Items 1-2)</i>	
1	655-00016	Decal Install, Jib - Black Terex.....	1
2	730-51353	Jib Assembly 24-40 FT-2 ST.....	1

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

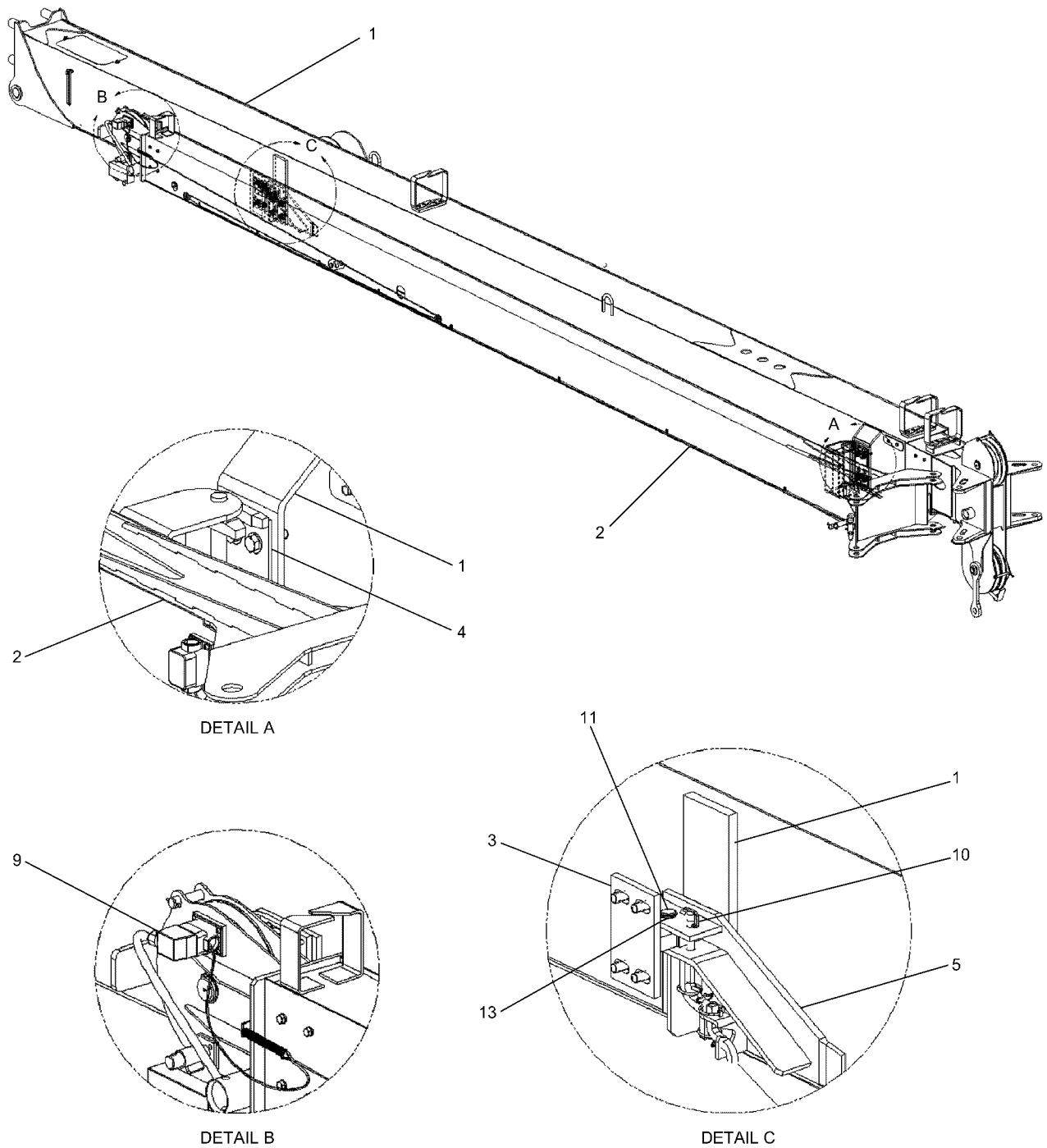
	<b>JIB ASSEMBLY - TWO STAGE</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>39A</b>
		MODEL: BT3870	
		PAGE 39A.9	



<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51362	<i>Jib Assembly, Two Stage, White Decal (Items 1-2)</i>	
1	655-00017	Decal Install, Jib - White Terex.....	1
2	730-51353	Jib Assembly 24-40 FT-2 ST.....	1

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

	<b>JIB ASSEMBLY - TWO STAGE</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>39A</b>
		MODEL: BT3870	
		PAGE 39A.10	



**SEE PAGE 39A.13**

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



**JIB STOWAGE**

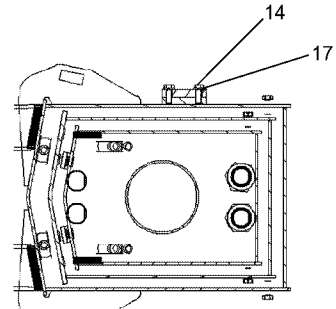
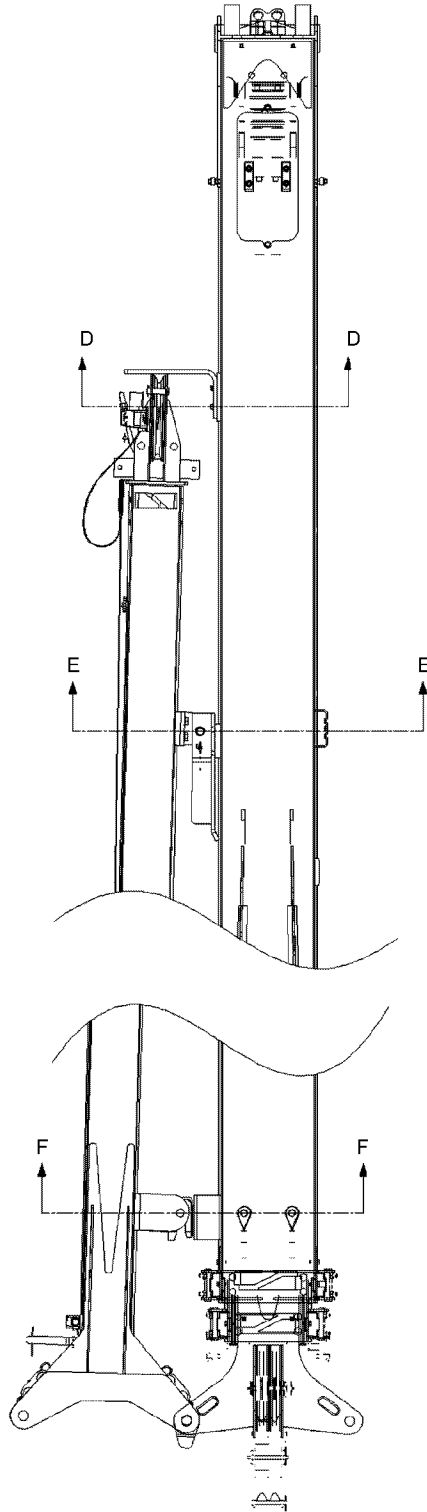
DATE: Revised 07-2009

MODEL: BT3870

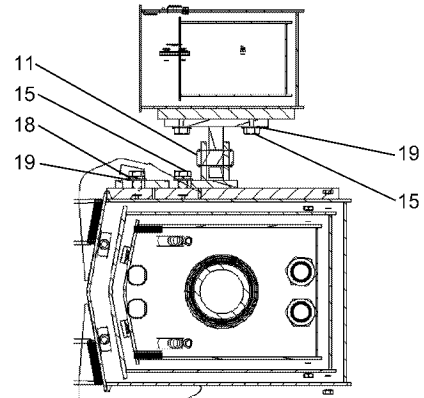
PAGE 39A.11

GROUP

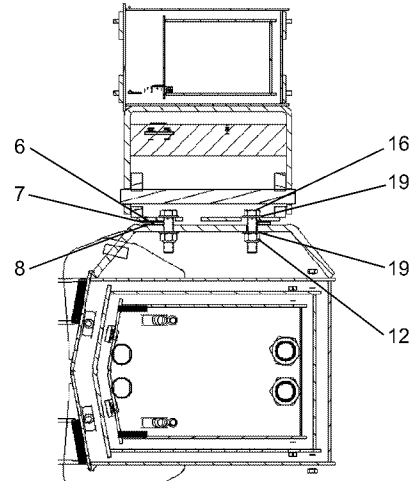
**39A**



SECTION D - D



SECTION E - E



SECTION F - F

**SEE PAGE 39A.13**

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



**JIB STOWAGE**

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GROUP

**39A**

**SEE PAGES 39A.11 & 39A.12**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-51355	<i>Jib Installation (Items 1-19)</i>	
1	721-00243	Boom Assembly, 70FT .....	REF
2	730-51353	Jib Assembly 24-40 FT-2 ST .....	REF
	730-51354	Jib Assembly 24 FT - 1 ST .....	REF
3	770-01676	Bracket Weldment, Jib Stowage .....	1
4	770-01711	Bracket Weldment, Jib Stowage .....	1
5	770-01801	Bracket Weldment, Jib Stowage .....	1
6	787-00226	Shim 4.00X2.375X0.040, AL6061 .....	2
7	787-00227	Shim 4.00X2.375X0.063, AL6061 .....	2
8	787-00228	Shim 4.00X2.375X0.10, AL6061 .....	2
9	789-05942	Safety Stop, Jib .....	1
10	870-00131	Pin Assembly, Jib Restrain .....	1
11	870-20243	Pin 1.00 X 2.48, Jib Stow .....	1
12	NTP-625C000-25	Nut, HEX TPLCK 0.625-11, ST Z GR5 .....	4
13	REX-A00X078-BP	Ring, EXTSNP HVY 1.00X0.078, ST BP .....	2
14	SHF-375CA00-25	Screw, HHCS FT 0.375-16X1.00, STZ G5 .....	4
15	SHF-625CA25-25	Screw, HHCS FT 0.625-11X1.25, STZ G5 .....	8
16	SHF-625CB50-25	Screw, HHCS FT 0.625-11X2.50, STZ G5 .....	4
17	W07-375X000-20	Washer, LCK, MED SPLT 0.375, ST Z .....	4
18	W07-625X000-20	Washer, LCK, MED SPLT 0.625, ST Z .....	4
19	WAN-62NX000-20	Washer, FL TYPA-NRW 0.625, ST Z .....	16

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



**JIB STOWAGE**

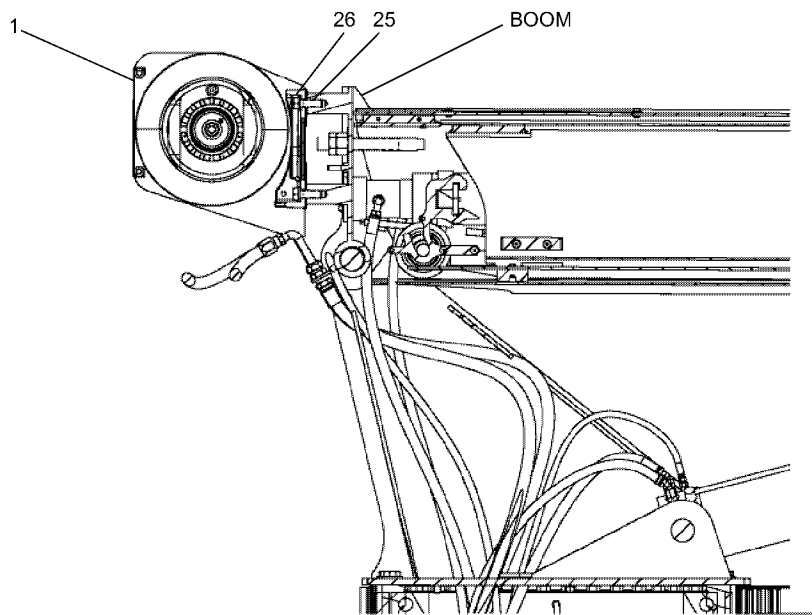
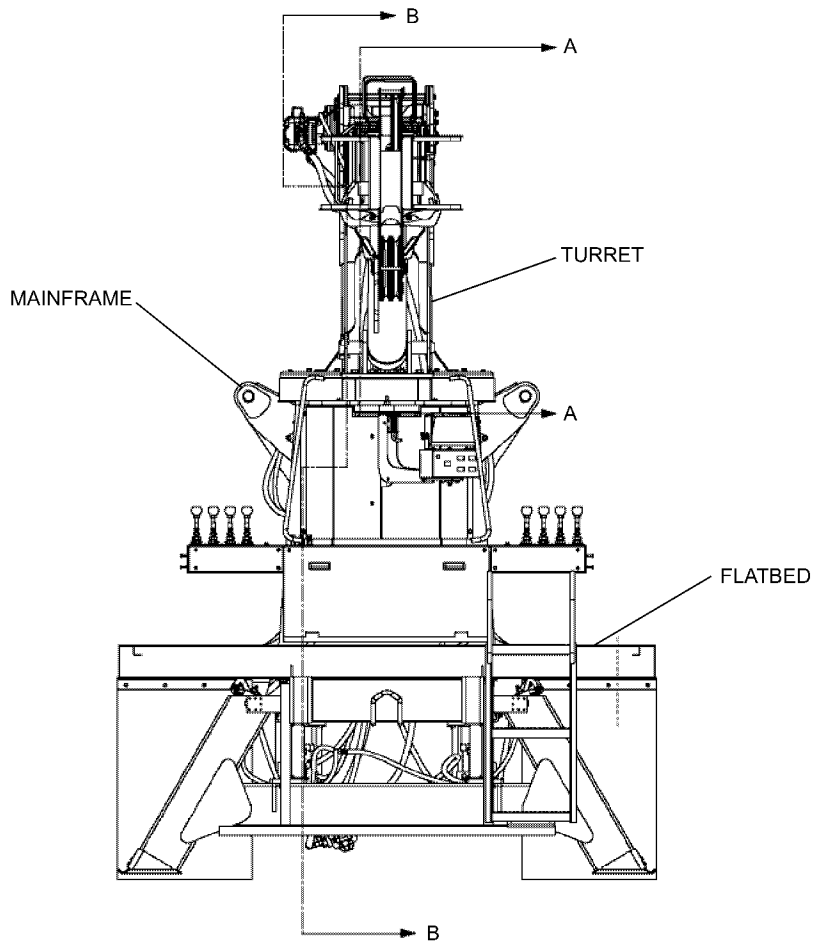
DATE: Revised 07-2009

MODEL: BT3870

PAGE 39A.13

GROUP

**39A**



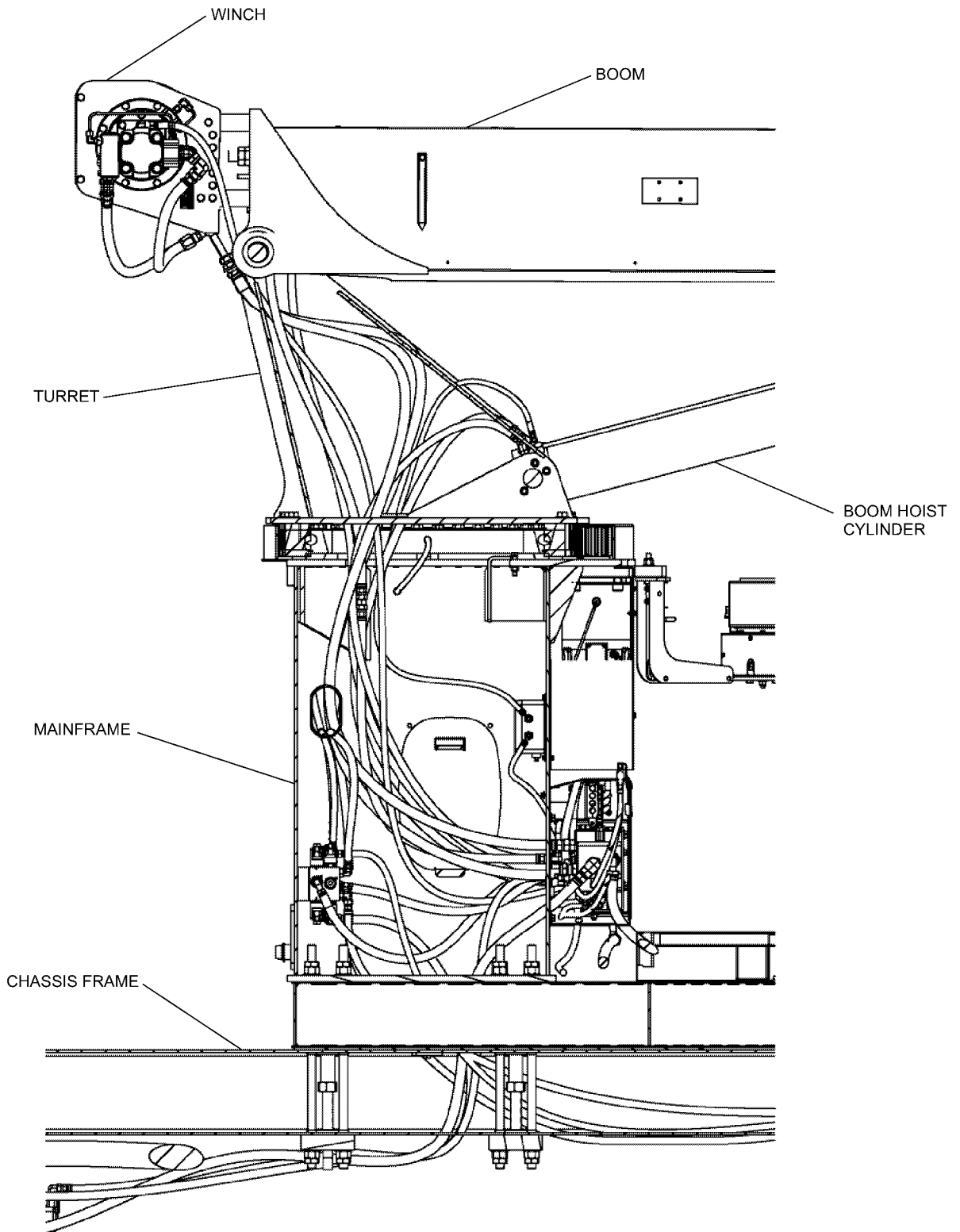
SECTION A - A

**SEE PAGE 40.9**

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

	<b>HYDRAULIC WINCH</b> Non Continuous Combined flow 1 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.1	





SECTION B - B

**SEE PAGE 40.9**

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



**HYDRAULIC WINCH**  
 Non Continuous Combined flow  
 1 Speed

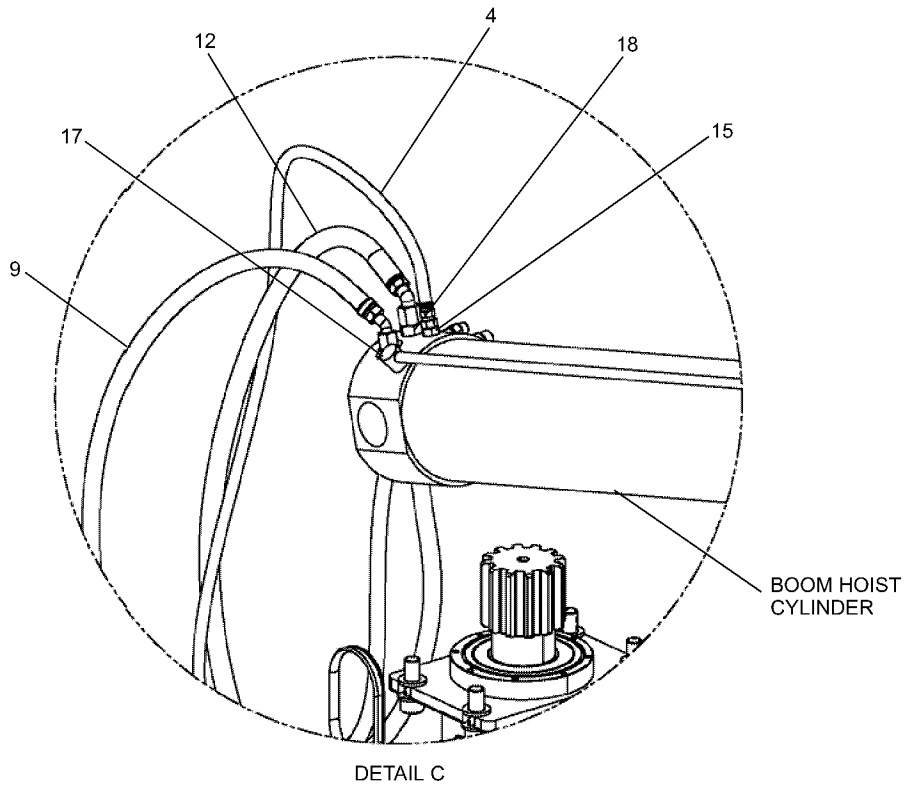
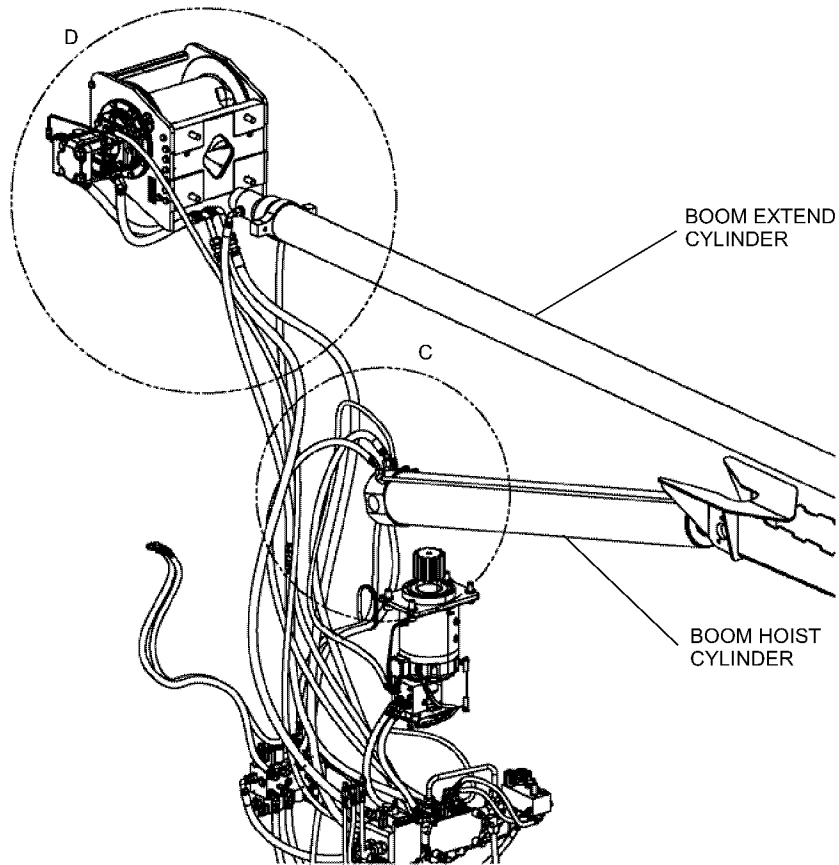
DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.2

GROUP

**40**



**SEE PAGE 40.9**

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



**HYDRAULIC WINCH**  
 Non Continuous Combined flow  
 1 Speed

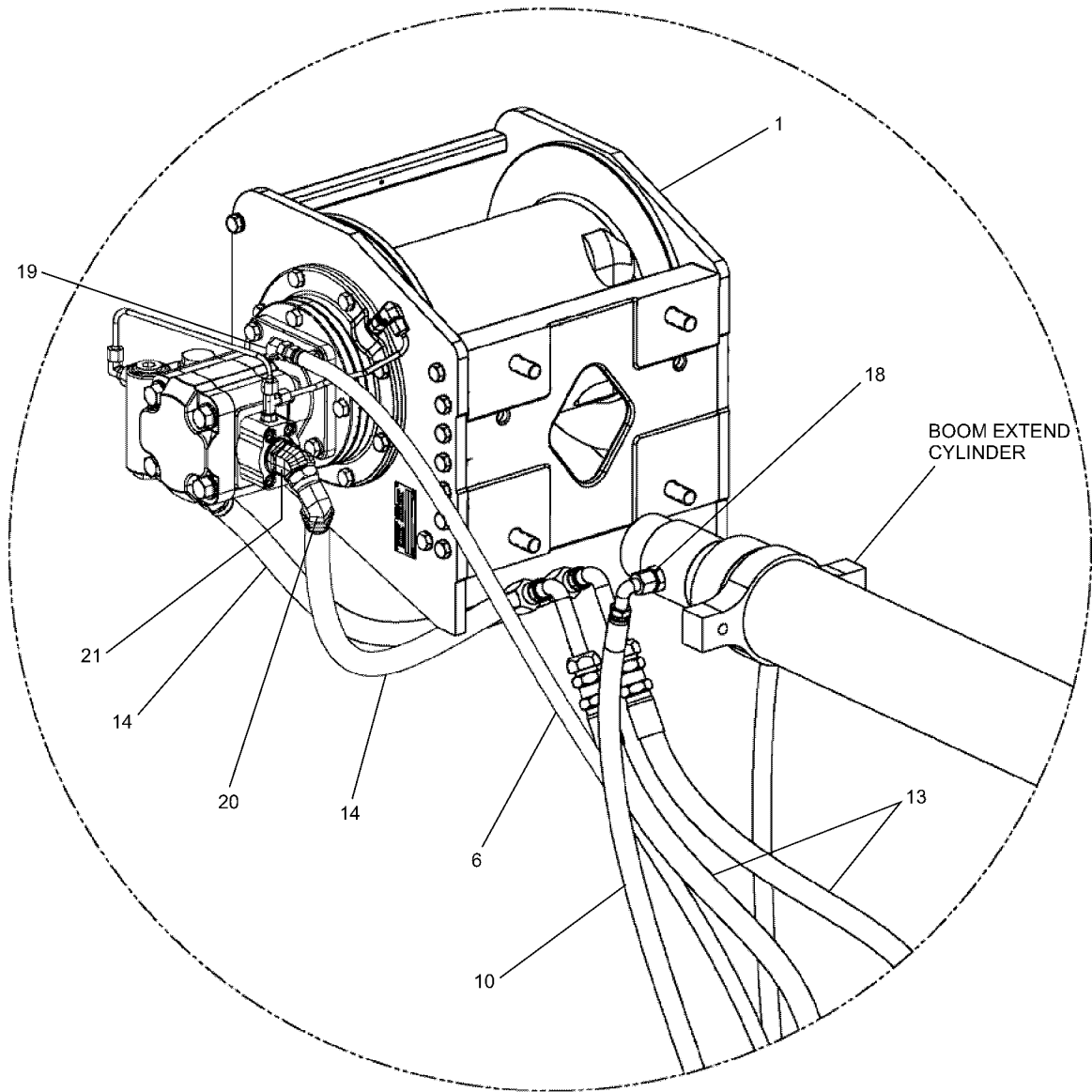
DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.3

GROUP

**40**

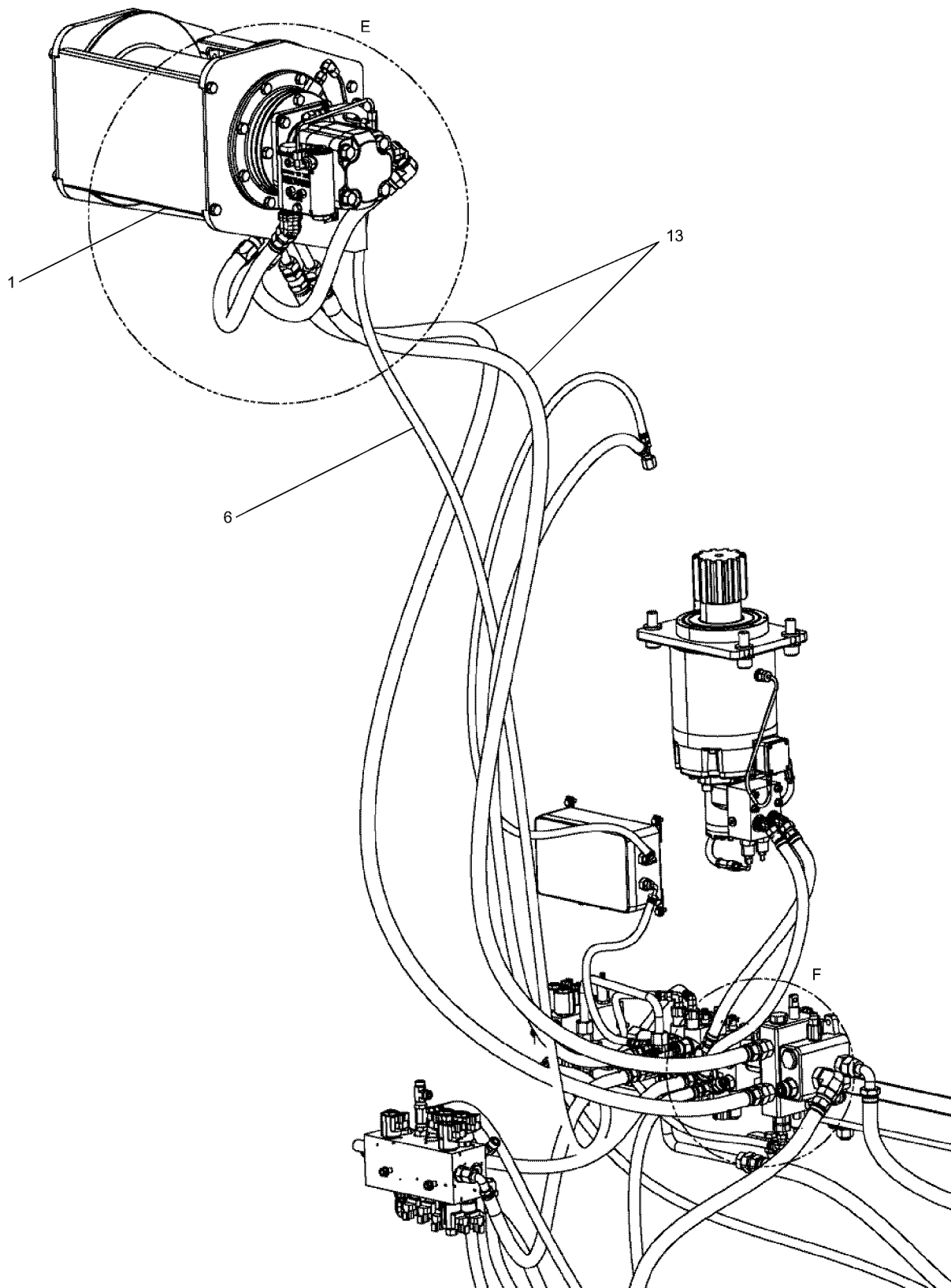


DETAIL D

**SEE PAGE 40.9**

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

	<p align="center"><b>HYDRAULIC WINCH</b> Non Continuous Combined flow 1 Speed</p>	DATE: Revised 07-2009	<p align="center">GROUP <b>40</b></p>
		MODEL: BT3870	
		PAGE 40.4	



**SEE PAGE 40.9**

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



**HYDRAULIC WINCH**  
 Non Continuous Combined flow  
 1 Speed

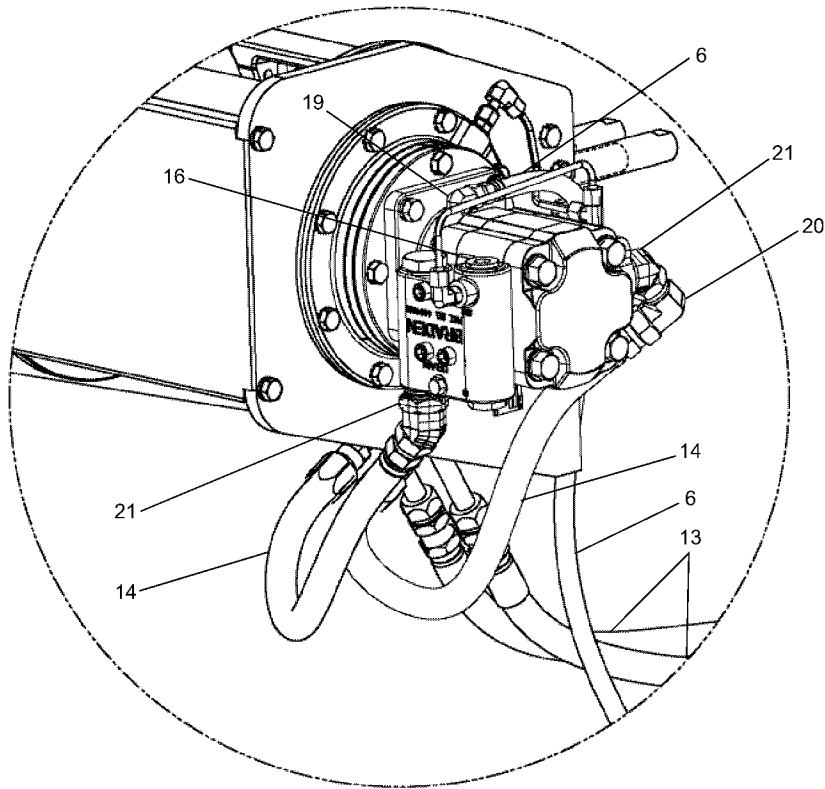
DATE: Revised 07-2009

MODEL: BT3870

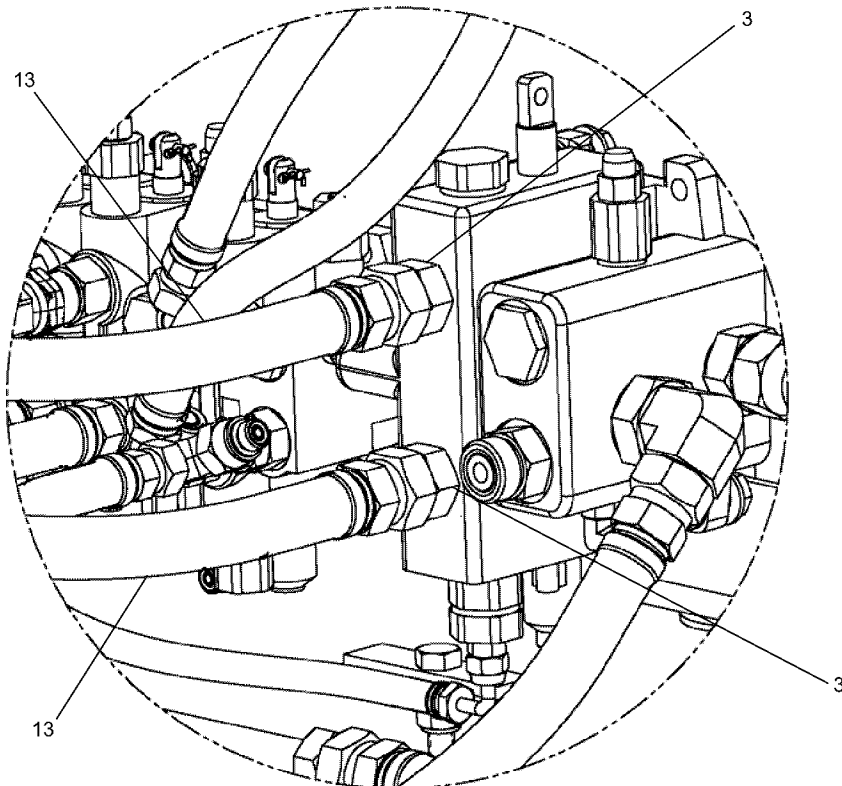
PAGE 40.5

GROUP

**40**



DETAIL E



DETAIL F

**SEE PAGE 40.9**

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



**HYDRAULIC WINCH**  
 Non Continuous Combined flow  
 1 Speed

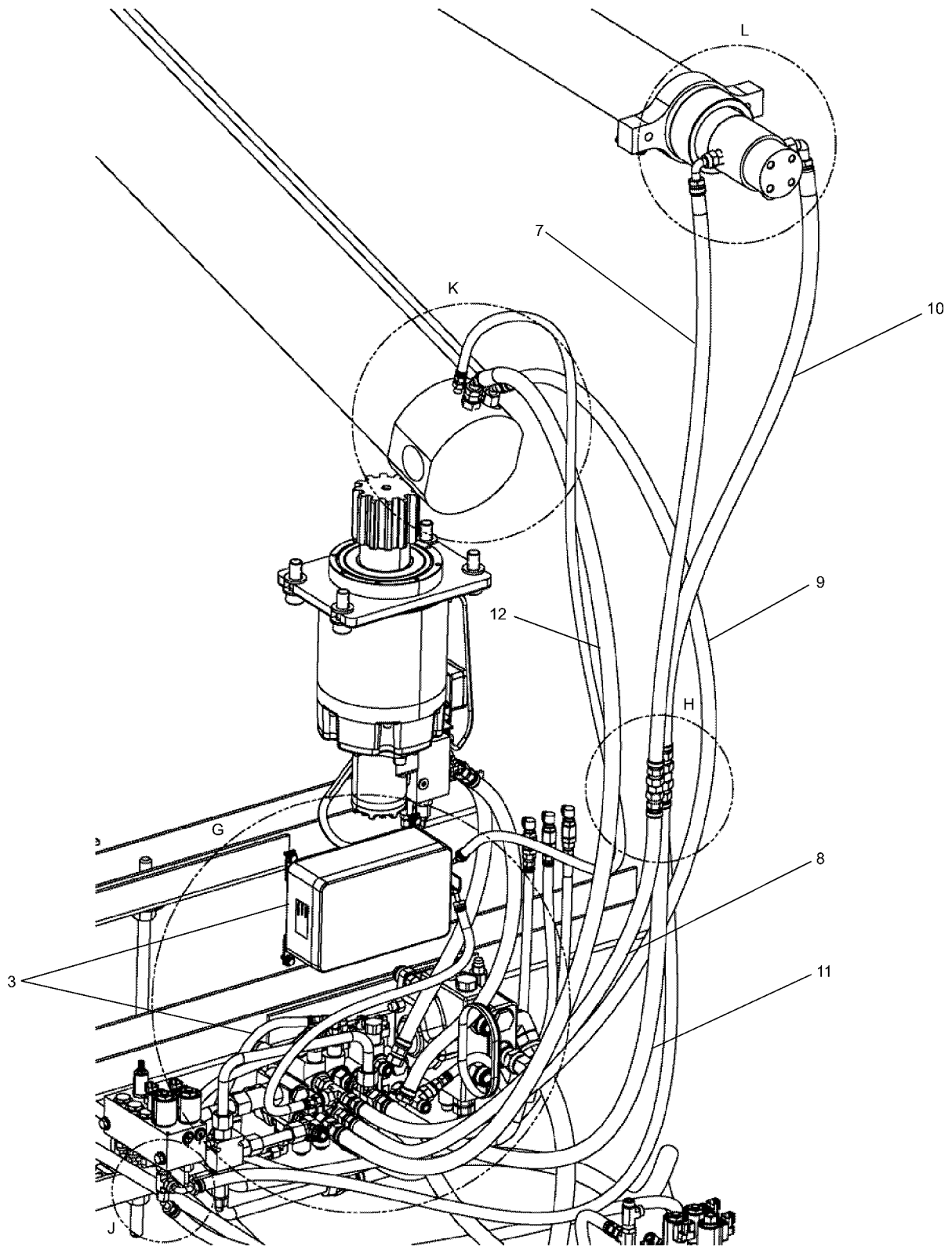
DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.6

GROUP

**40**



**SEE PAGE 40.9**

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



**HYDRAULIC WINCH**  
 Non Continuous Combined flow  
 1 Speed

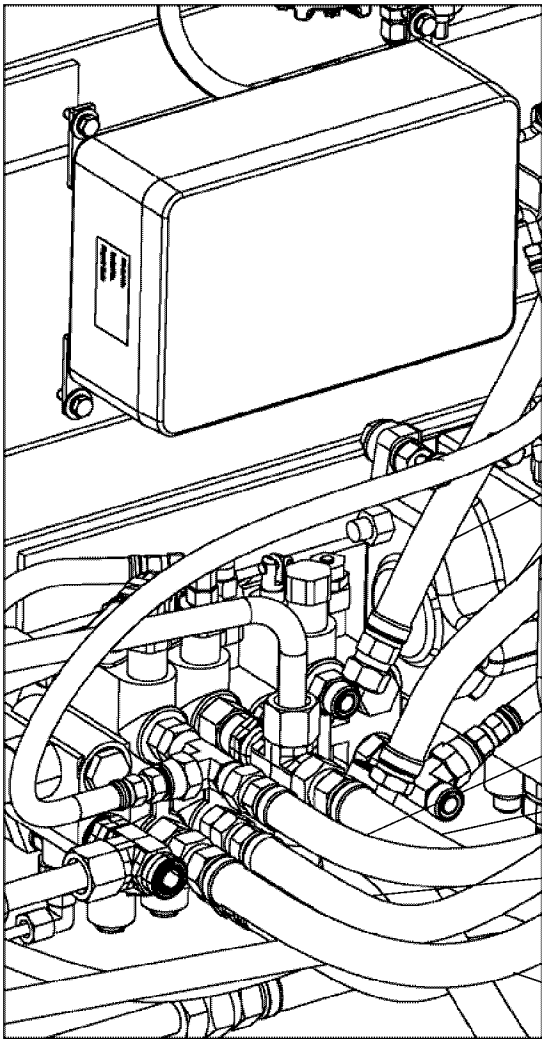
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MODEL: BT3870

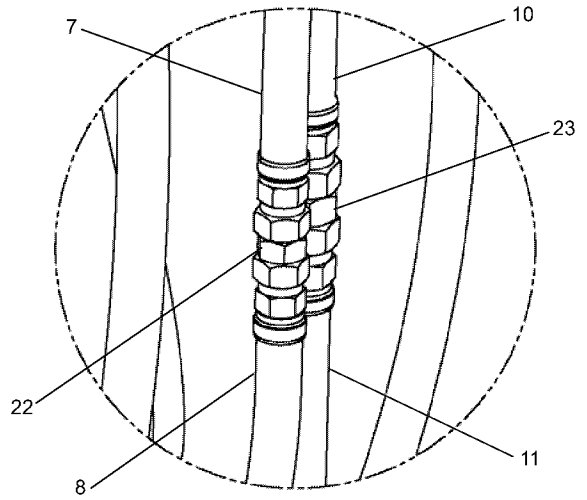
PAGE 40.7

GROUP

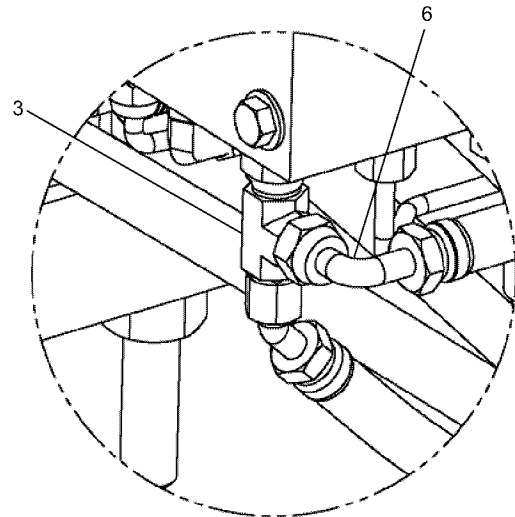
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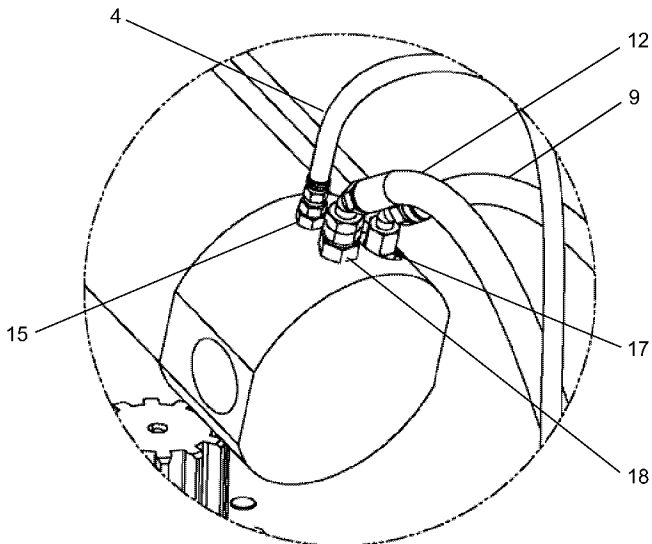
DETAIL G



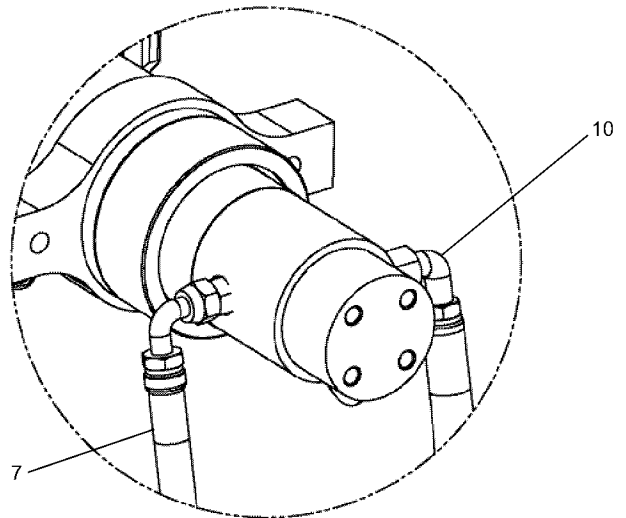
DETAIL H



DETAIL J



DETAIL K



DETAIL L

**SEE PAGE 40.9**

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



**HYDRAULIC WINCH**  
 Non Continuous Combined flow  
 1 Speed

DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.8

GROUP

**40**

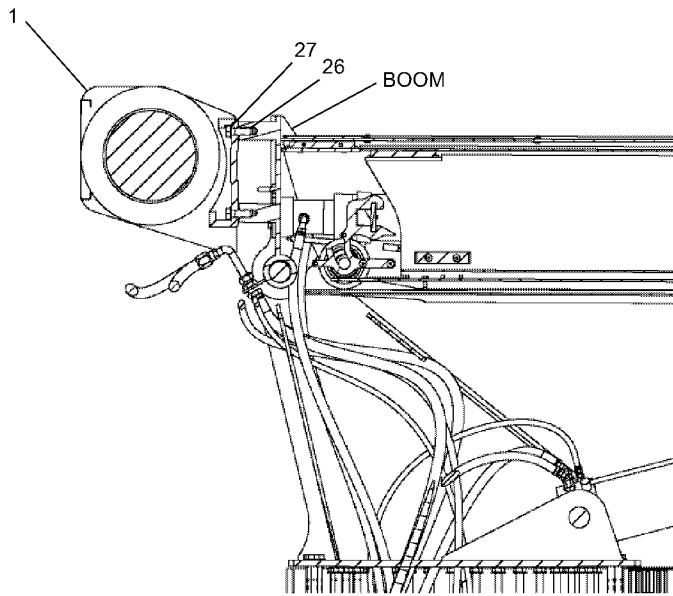
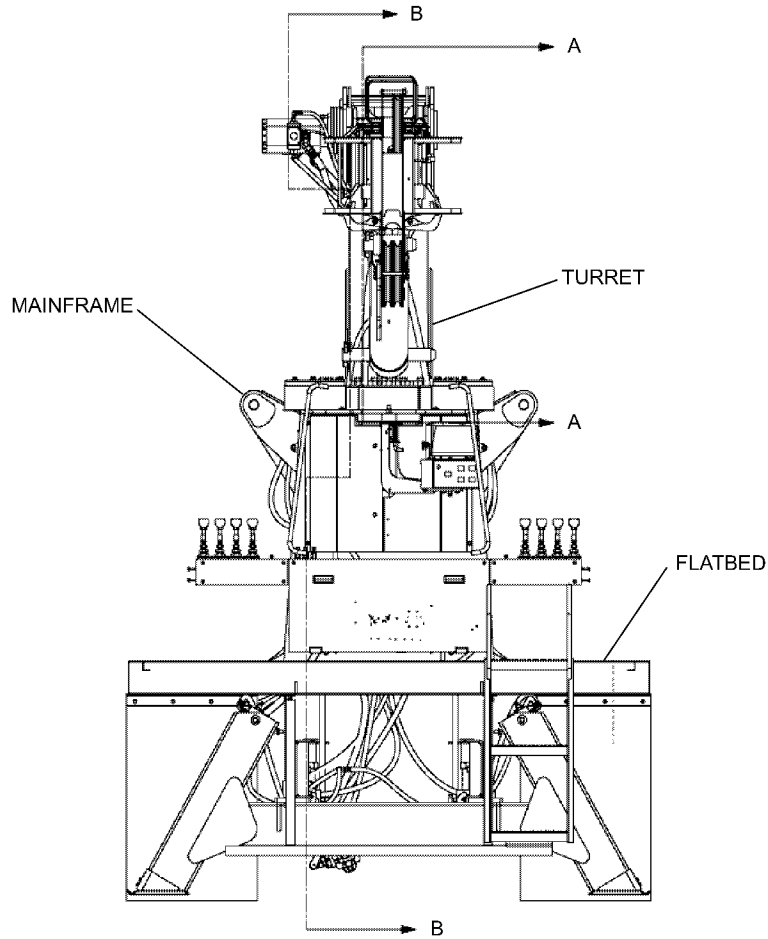
**SEE PAGES 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7 & 40.8**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-01	<i>Hydraulic Installation, BT 3870, NON CON - CF (Items 1-26)</i>	
1	293-00048	Winch, 12,000# .....	1
2	400-15086	Tie, Nylon CBL, 1.75 Dia .....	1
3	500-01839-01	Hydraulic Installation, Main Outrigger .....	1
4	502-11350	Hose, Hydraulic, RCI .....	1
5	502-11351	Hose, Hydraulic, RCI Topping Rod Base .....	1
6	502-21019	Hose, Winch Motor Drain .....	1
7	502-30783	Hose Assembly, Tele Retract - Upper .....	1
8	502-30784	Hose Assembly, Tele Retract - Lower .....	1
9	502-30787	Hose, Boom Topping Retract .....	1
10	502-35084	Hose Assembly, Tele Extend - Upper .....	1
11	502-35085	Hose Assembly, Tele Extend - Lower .....	1
12	502-35087	Hose, Boom Topping Extend .....	1
13	502-41014	Hose Assembly, Winch .....	2
14	502-41015	Hose Assembly, Winch, Short .....	2
15	513-20019	CONN M#4 OFS X M#6 ORB .....	1
16	513-20027	STR Adapter, FF-2404-6-4 .....	1
17	513-50023	STR CONN M#8 OFS X M#8 ORB .....	2
18	513-60008	CONN M#10 OFS X M#10 ORB .....	2
19	514-64002	Elbow 90 DEG, Swivel, -6 .....	1
20	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
21	515-07003	Fitting, 45 DEG, FGFF-6802-12-16 .....	2
22	519-50024	Union Fitting, STR M08 OFS .....	1
23	519-60017	Union Fitting, STR M10 OFS .....	1
24	695-10020	Structural Assembly, BT3870 .....	1
25	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8 .....	4
26	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ .....	4

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

	<b>HYDRAULIC WINCH</b> Non Continuous Combined flow 1 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.9	





SECTION A - A

**SEE PAGE 40.18**

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



**HYDRAULIC WINCH**  
 Non Continuous Motor Shift  
 2 Speed

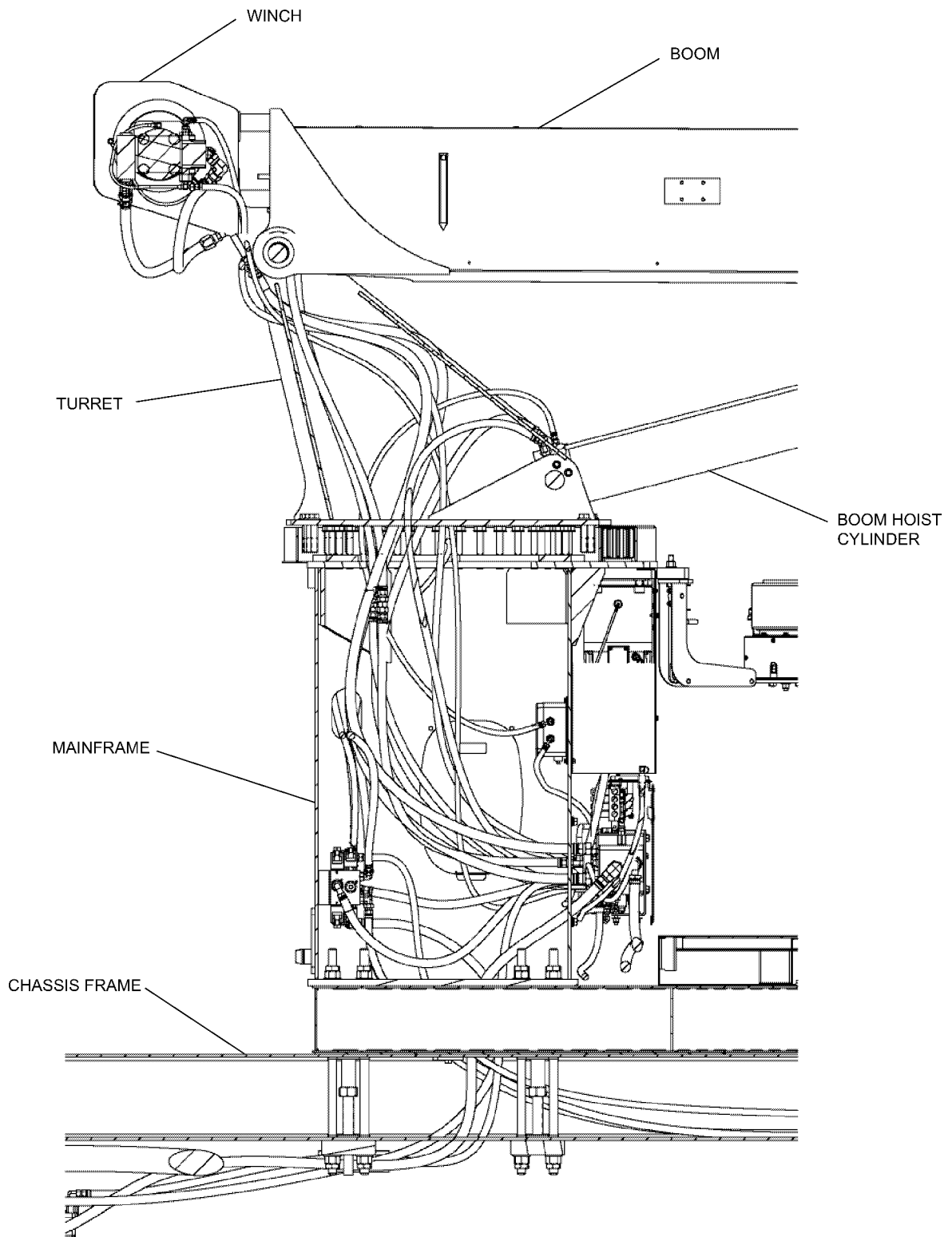
DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.10

GROUP

**40**



SECTION B - B

**SEE PAGE 40.18**

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



**HYDRAULIC WINCH**  
 Non Continuous Motor Shift  
 2 Speed

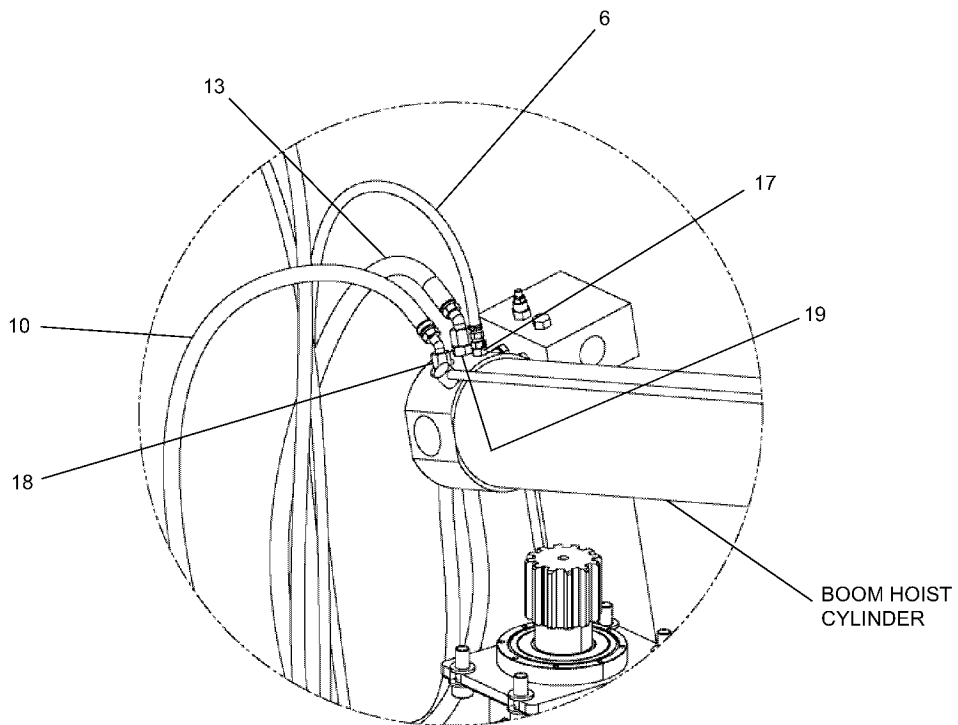
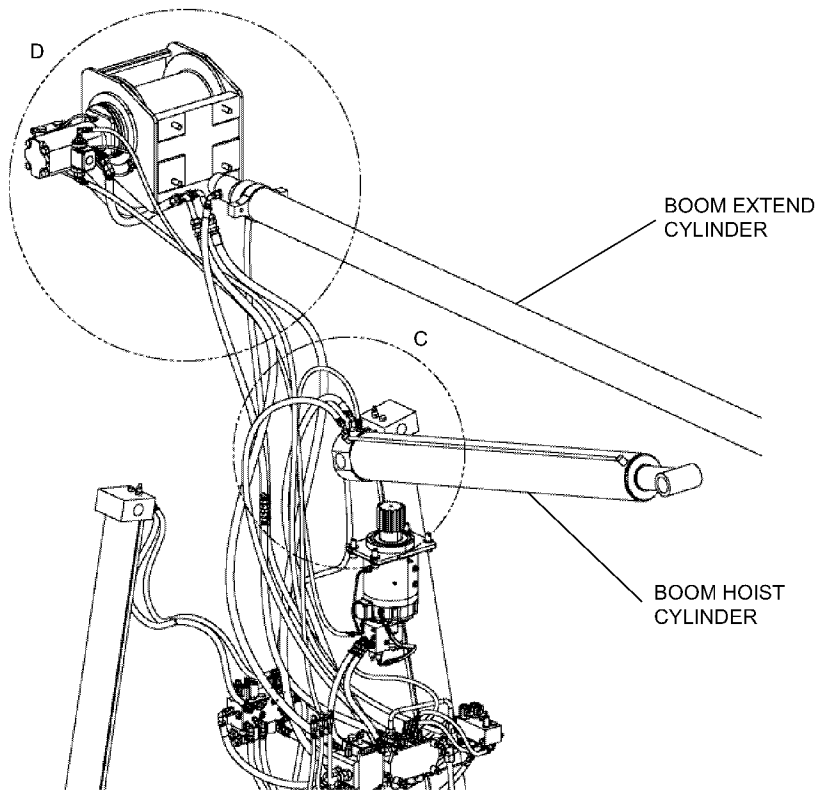
DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.11

GROUP

**40**

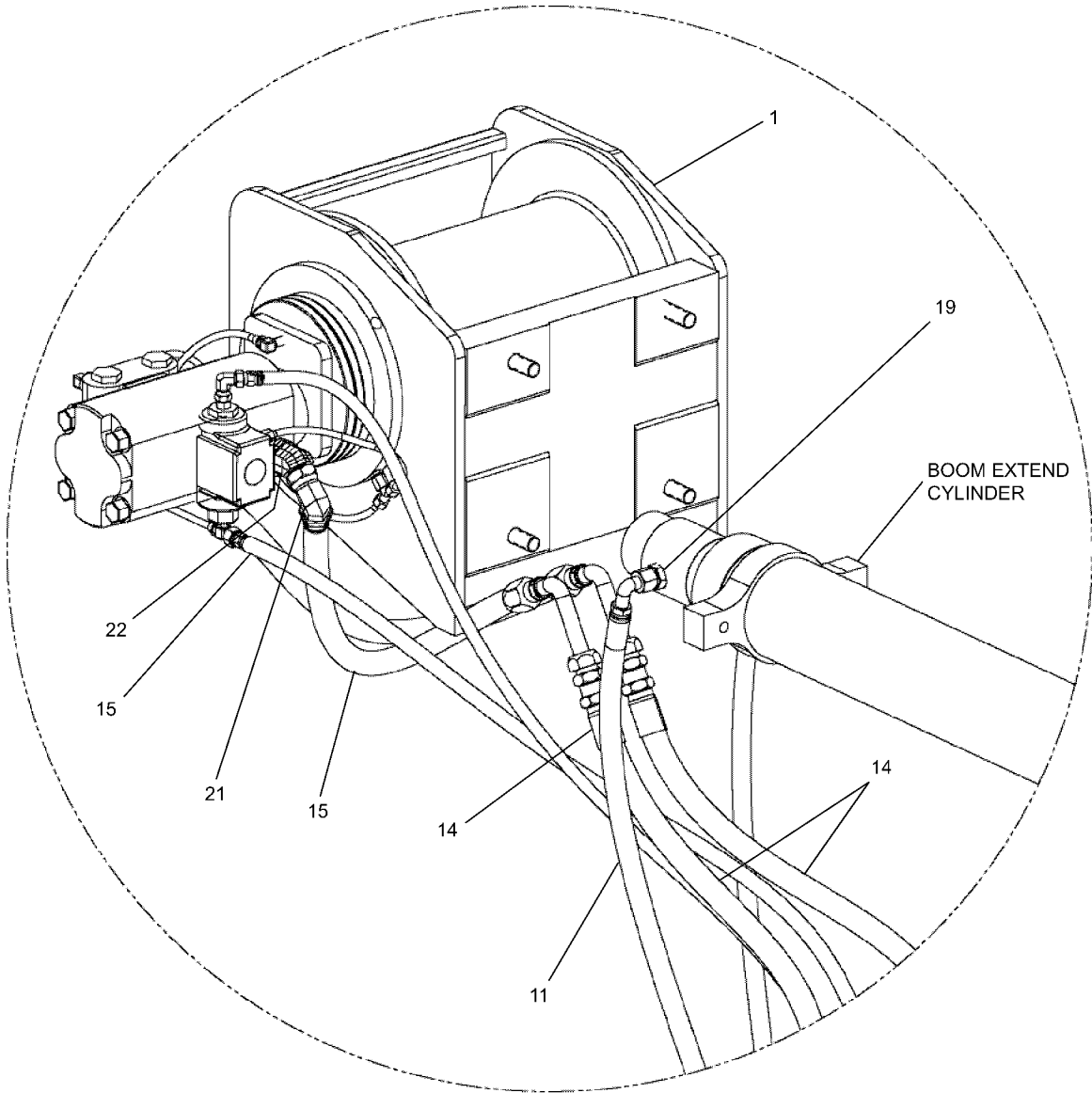


DETAIL C

**SEE PAGE 40.18**

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

	<b>HYDRAULIC WINCH</b> Non Continuous Motor Shift 2 Speed	DATE: Revised 07-2009	<b>GROUP</b> <b>40</b>
		MODEL: BT3870	
		PAGE 40.12	

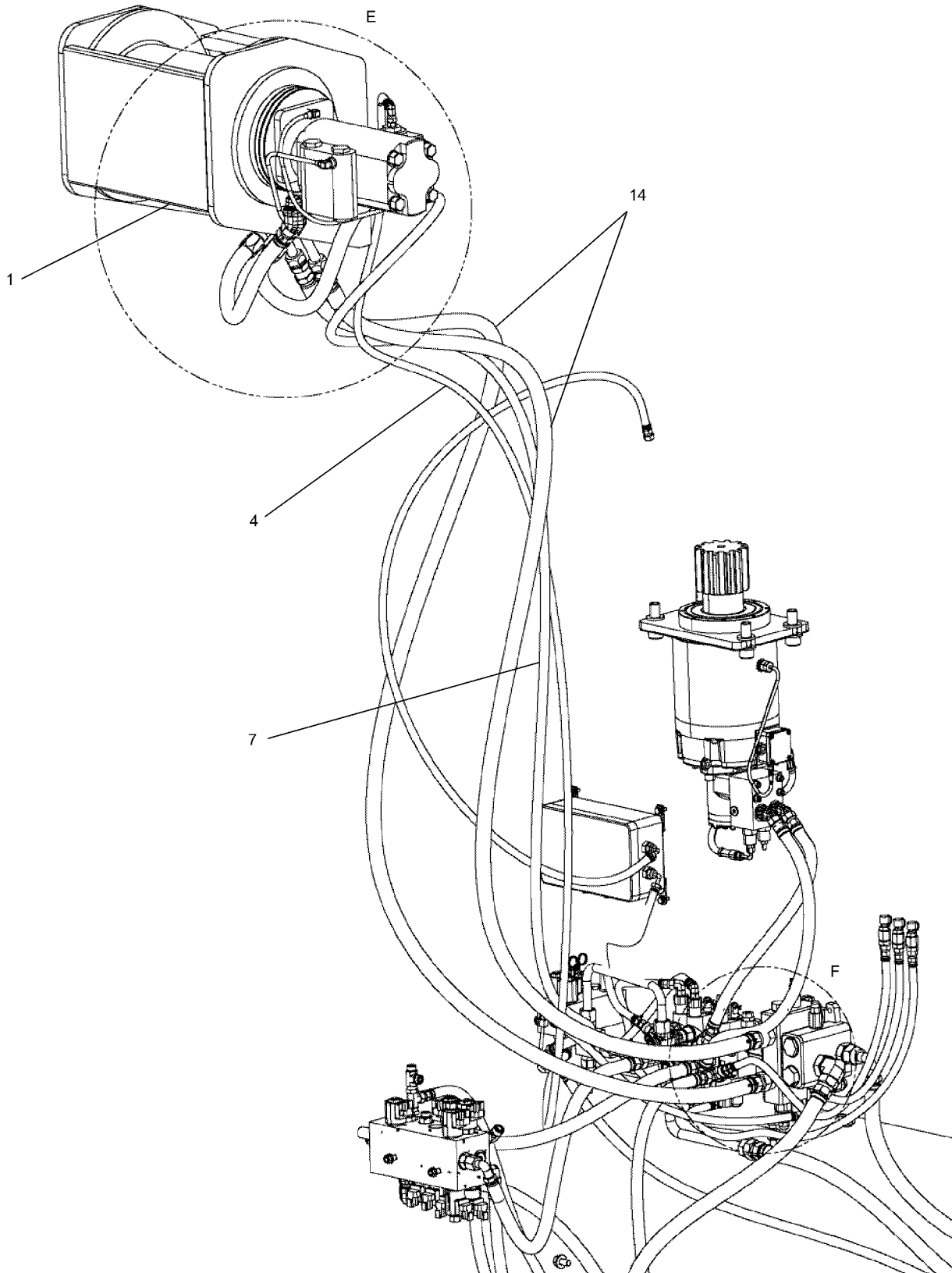


DETAIL D

**SEE PAGE 40.18**

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

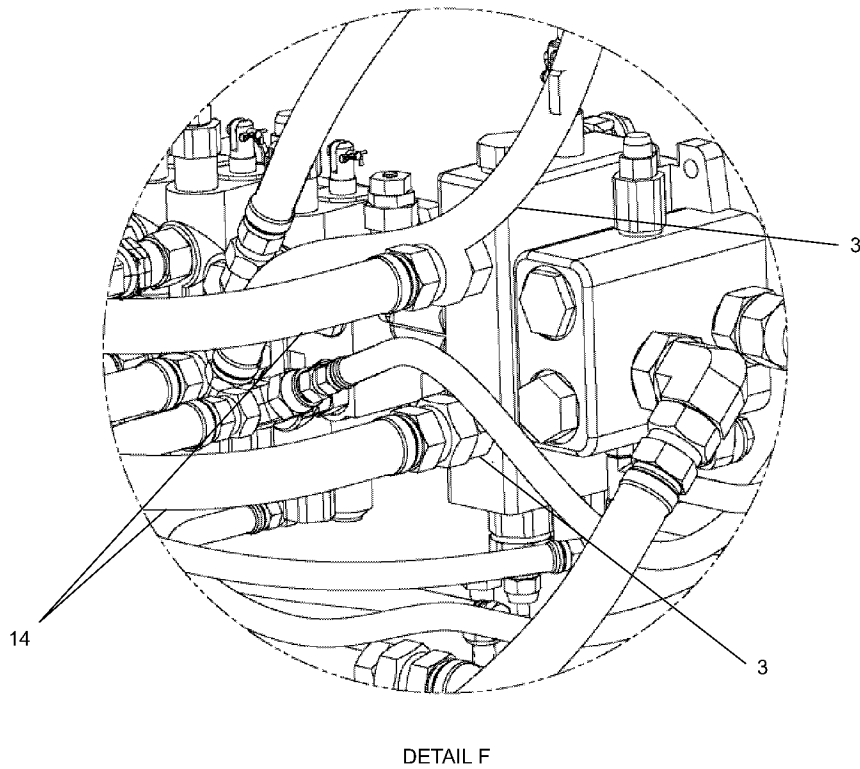
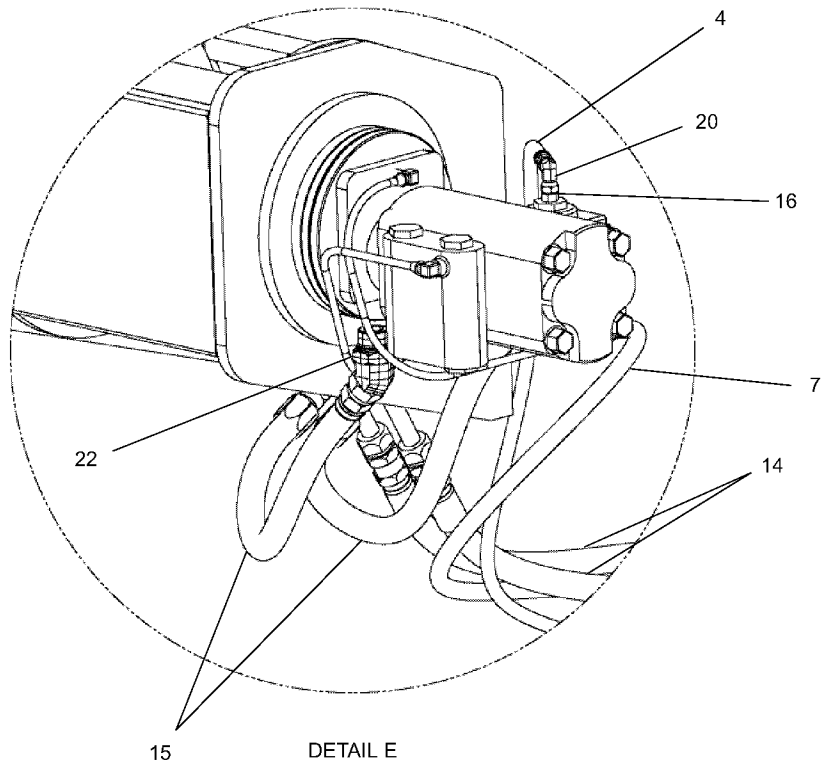
	<b>HYDRAULIC WINCH</b> Non Continuous Motor Shift 2 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.13	



**SEE PAGE 40.18**

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

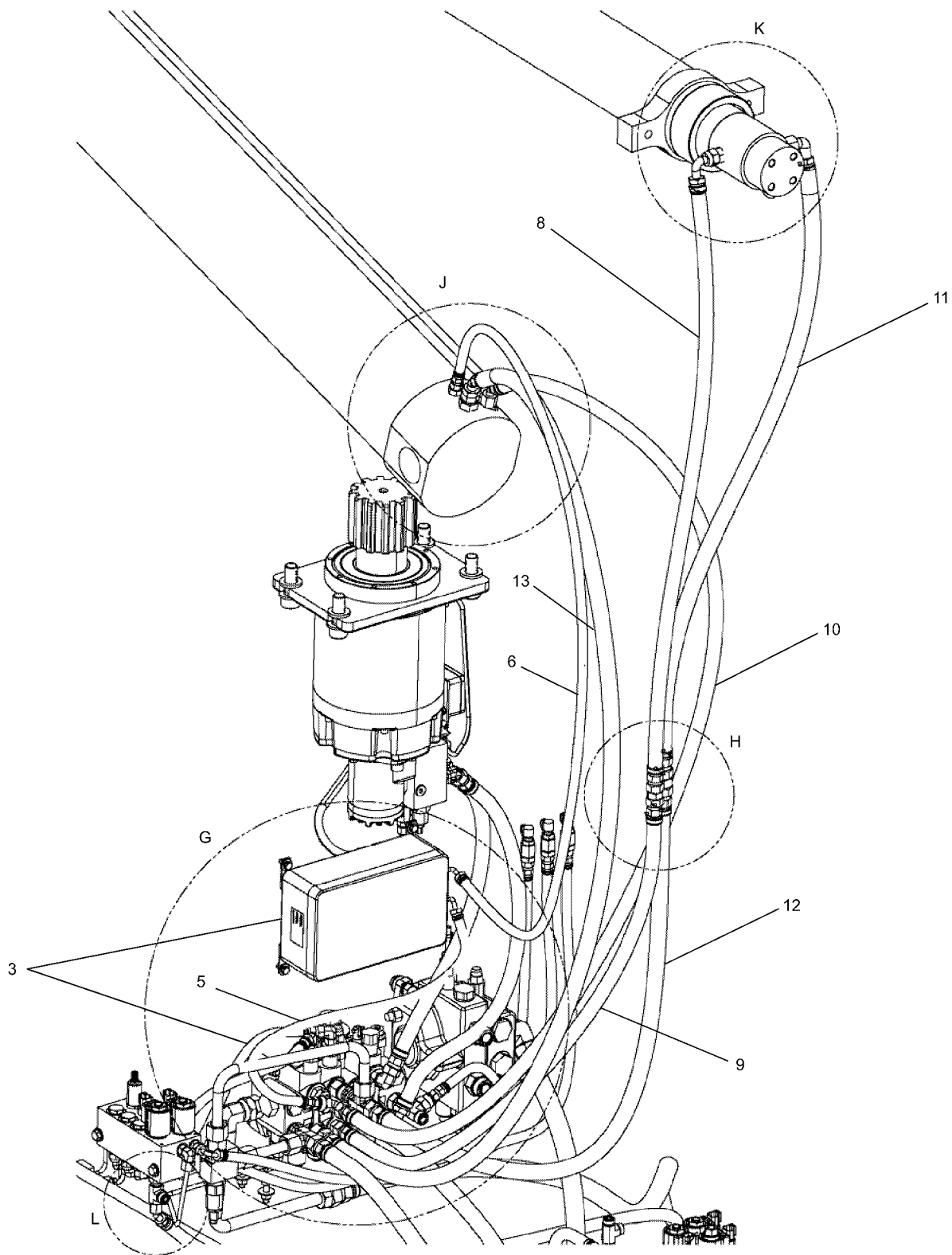
	<b>HYDRAULIC WINCH</b> Non Continuous Motor Shift 2 Speed	DATE: Revised 07-2009	<b>GROUP</b> <b>40</b>
		MODEL: BT3870	
		PAGE 40.14	



**SEE PAGE 40.18**

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

	<b>HYDRAULIC WINCH</b> Non Continuous Motor Shift 2 Speed	DATE: Revised 07-2009	<b>GROUP</b> <b>40</b>
		MODEL: BT3870	
		PAGE 40.15	



**SEE PAGE 40.18**

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



**HYDRAULIC WINCH**  
 Non Continuous Motor Shift  
 2 Speed

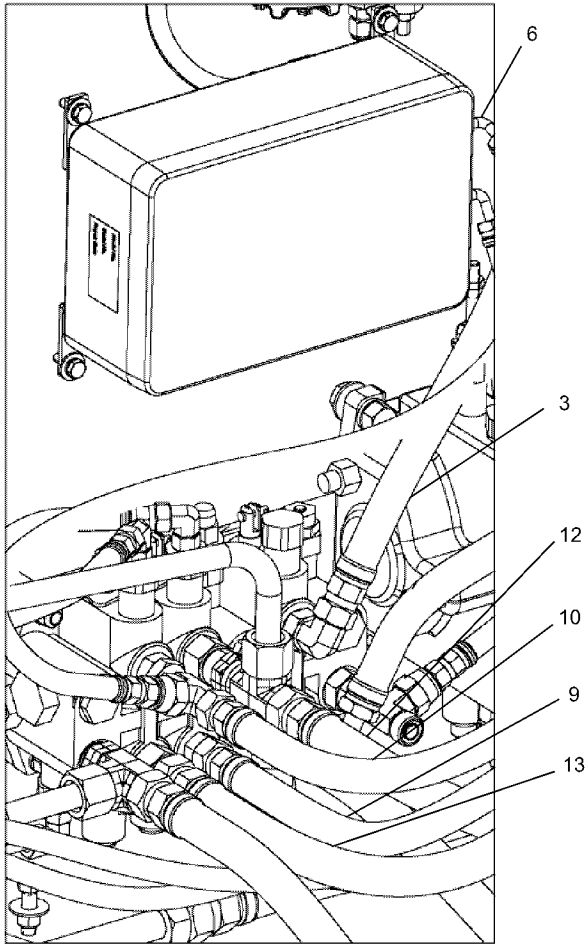
DATE: Revised 07-2009

MODEL: BT3870

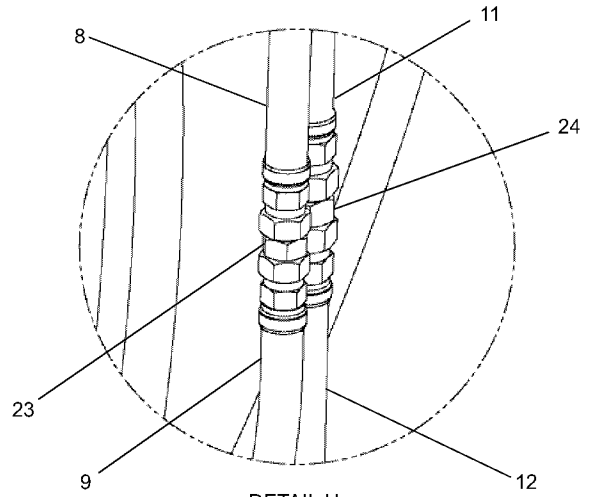
PAGE 40.16

GROUP

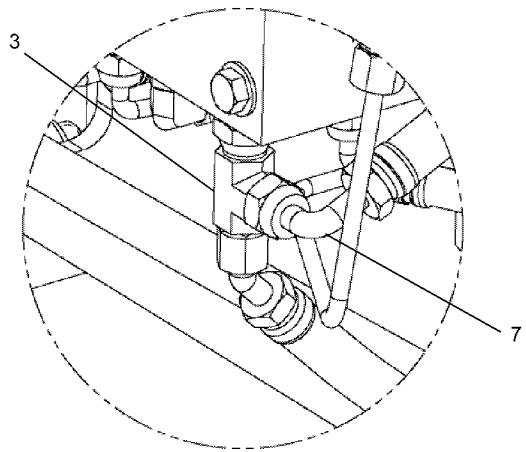
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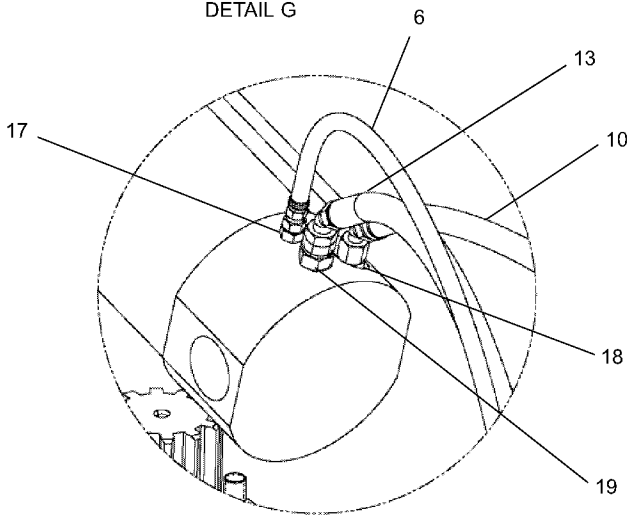
DETAIL G



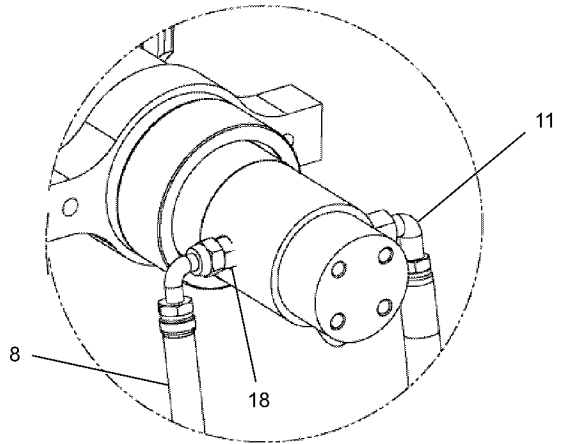
DETAIL H



DETAIL L



DETAIL J



DETAIL K

**SEE PAGE 40.18**

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



**HYDRAULIC WINCH**  
 Non Continuous Motor Shift  
 2 Speed

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**40**

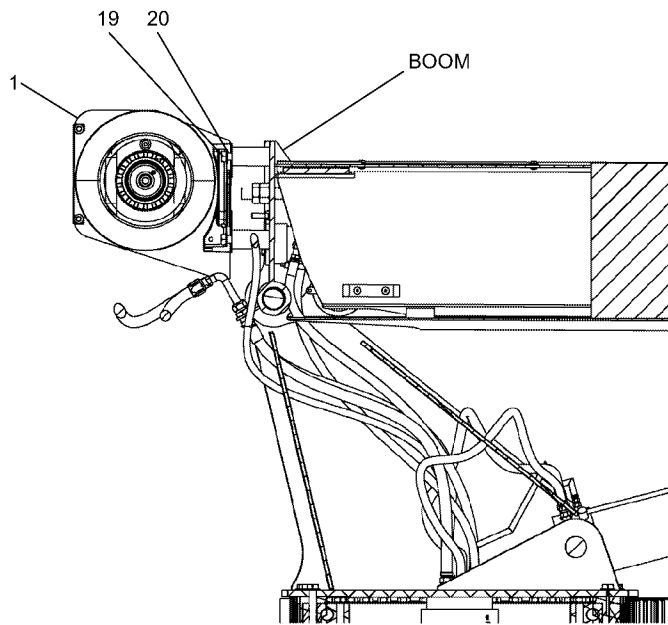
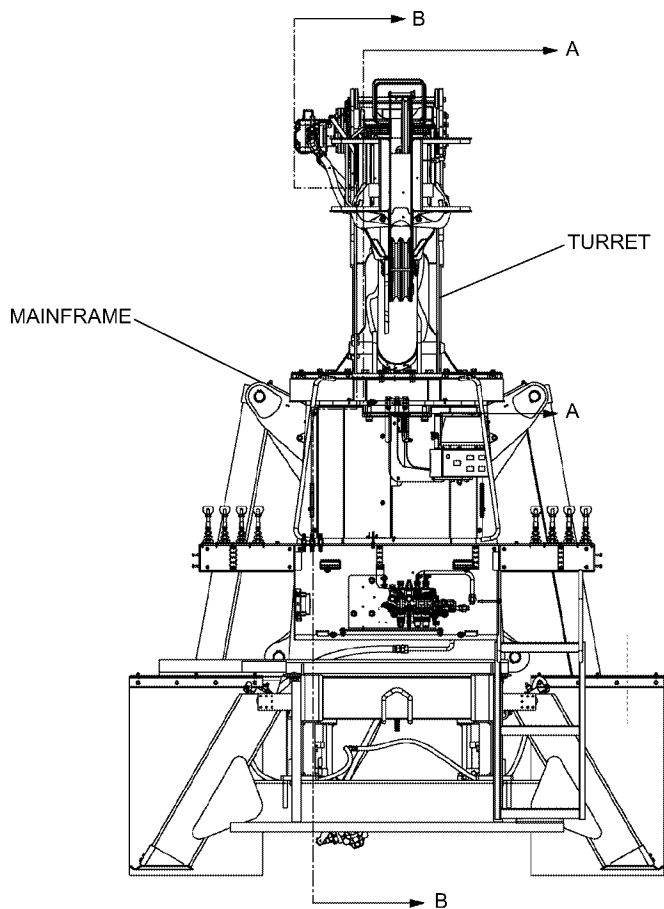


**SEE PAGES 40.10, 40.11, 40.12, 40.13, 40.14, 40.15, 40.16 & 40.17**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-02	<i>Hydraulic Installation, BT 3870, NON CON - MS (Items 1-27)</i>	
1	293-00044	Winch Assembly, 12K 2 Speed .....	1
2	400-15086	Tie, Nylon CBL, 1.75 DIA.....	1
3	500-01839-02	Hydraulic Installation, Main Outrigger.....	1
4	502-11346	502-11346-Hose Assembly, 2SP Pilot .....	1
5	502-11350	Hose, Hydraulic, RCI .....	1
6	502-11351	Hose, Hydraulic, RCI Topping Rod Base .....	1
7	502-21026	502-21026-Winch Drain, MS, NC .....	1
8	502-30783	Hose Assembly, Tele Retract - Upper.....	1
9	502-30784	Hose Assembly, Tele Retract - Lower.....	1
10	502-30787	Hose, Boom Topping Retract.....	1
11	502-35084	Hose Assembly, Tele Extend - Upper .....	1
12	502-35085	Hose Assembly, Tele Extend - Lower .....	1
13	502-35087	Hose, Boom Topping Extend .....	1
14	502-41014	Hose Assembly, Winch .....	2
15	502-41015	Hose Assembly, Winch, Short .....	2
16	513-20017	STR CONN M#4 OFS X M#4 ORB .....	1
17	513-20019	CONN M#4 OFS X M#6 ORB .....	1
18	513-50023	STR CONN M#8 OFS X M#8 ORB .....	2
19	513-60008	CONN M#10 OFS X M#10 ORB .....	2
20	514-62002	Elbow 90 M0.25OFS X F0.25OFS SW.....	1
21	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
22	515-07003	Fitting, 45 DEG, FGFF-6802-12-16 .....	2
23	519-50024	Union Fitting, STR M08 OFS.....	1
24	519-60017	Union Fitting, STR M10 OFS.....	1
25	695-10020	Structural Assembly, BT3870 .....	REF
26	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8 .....	4
27	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ .....	4

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

	<b>HYDRAULIC WINCH</b> Non Continuous Motor Shift 2 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.18	



SECTION A - A

**SEE PAGE 40.27**

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



**WINCH MOTOR**  
 Continuous Rotation Combined Flow  
 1 Speed

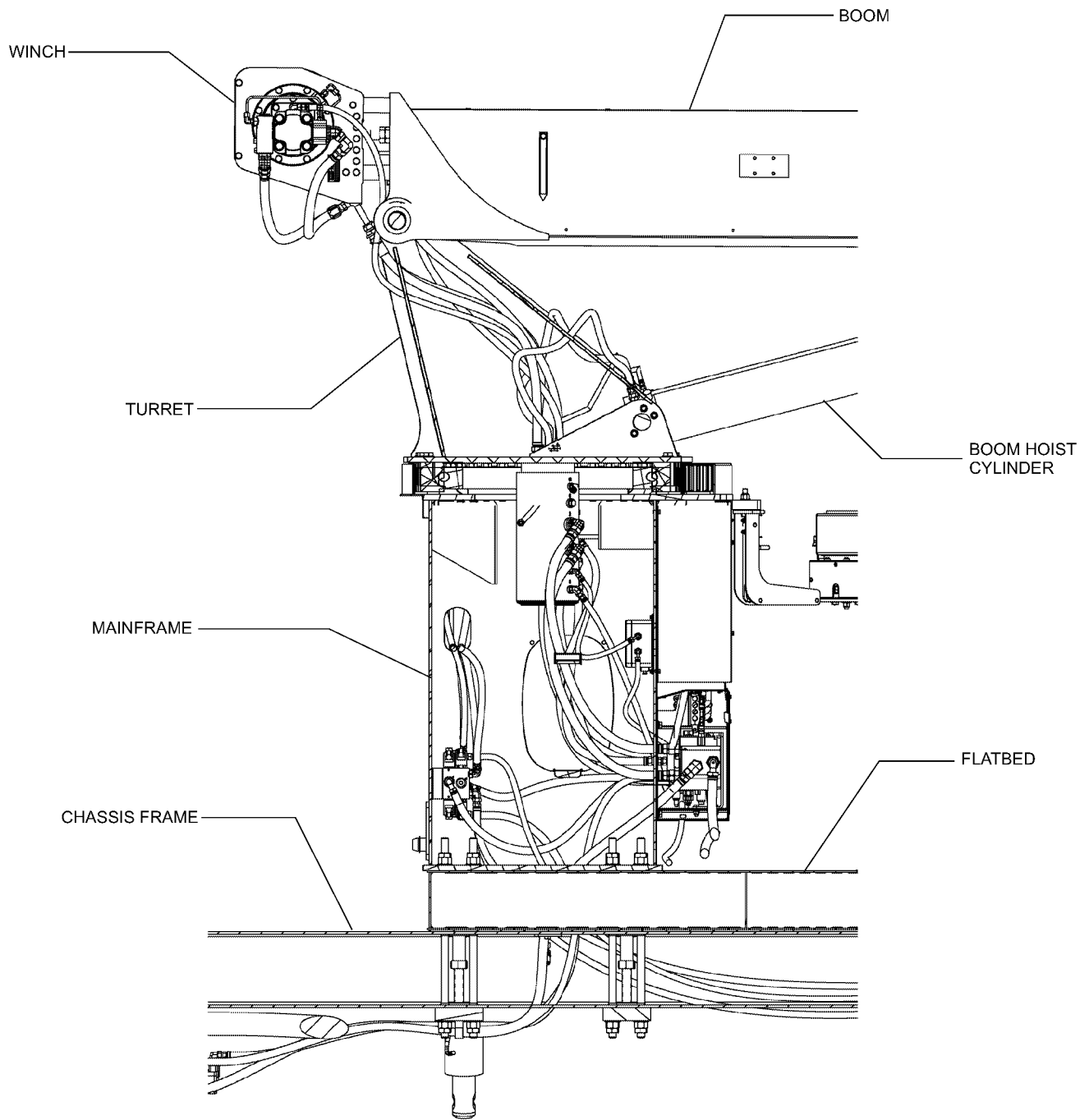
DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.19

GROUP

**40**

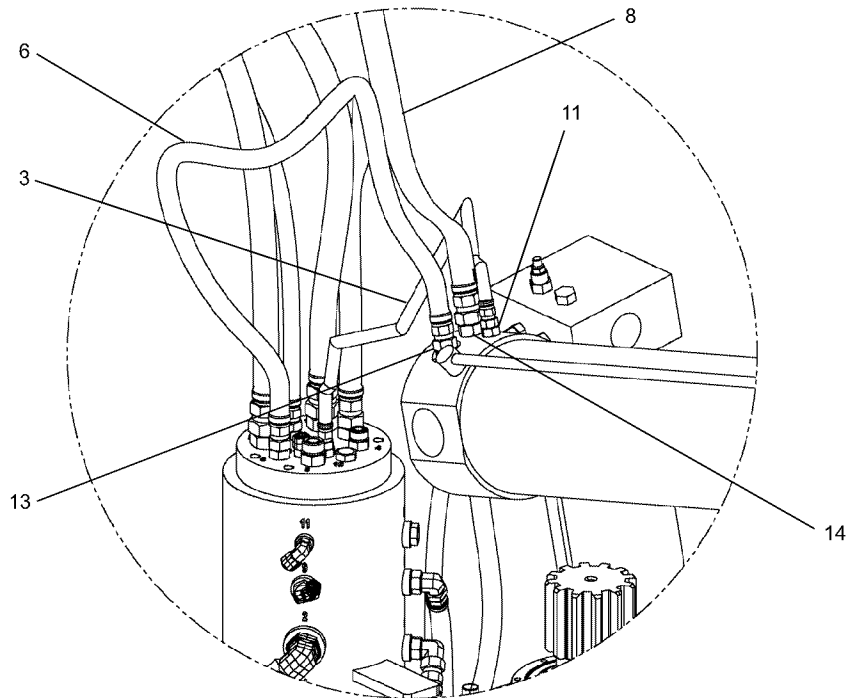
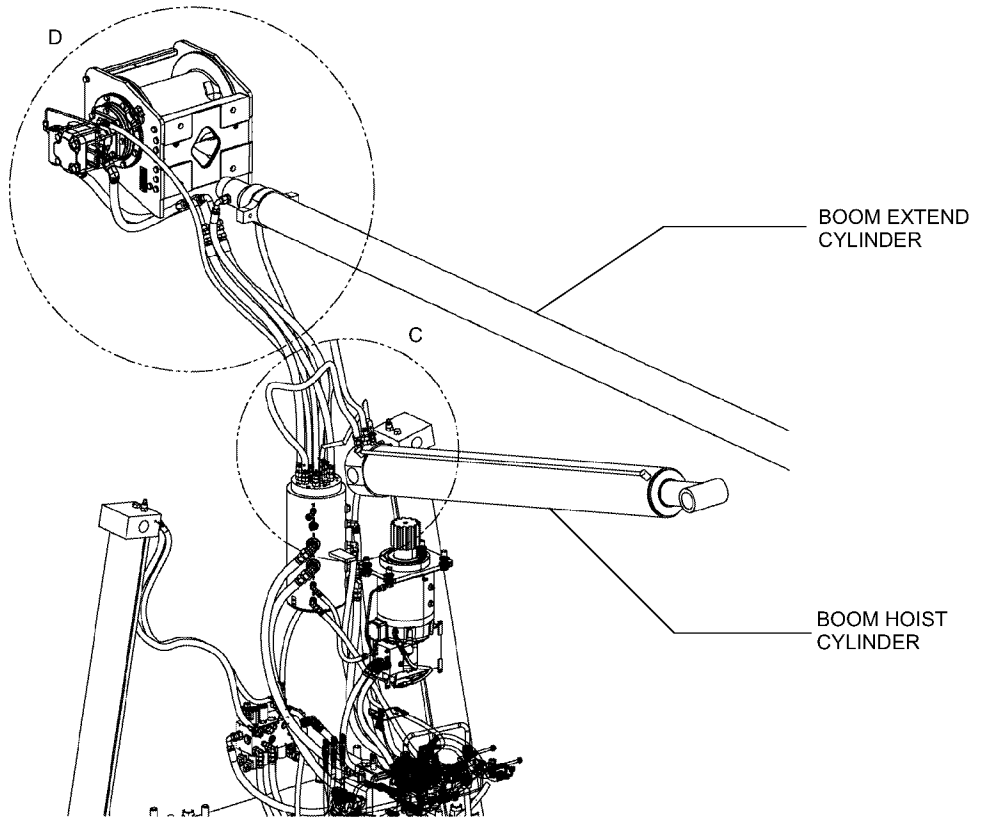


SECTION B - B

**SEE PAGE 40.27**

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

	<b>WINCH MOTOR</b> Continuous Rotation Combined Flow 1 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.20	



DETAIL C

**SEE PAGE 40.27**

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



**WINCH MOTOR**  
 Continuous Rotation Combined Flow  
 1 Speed

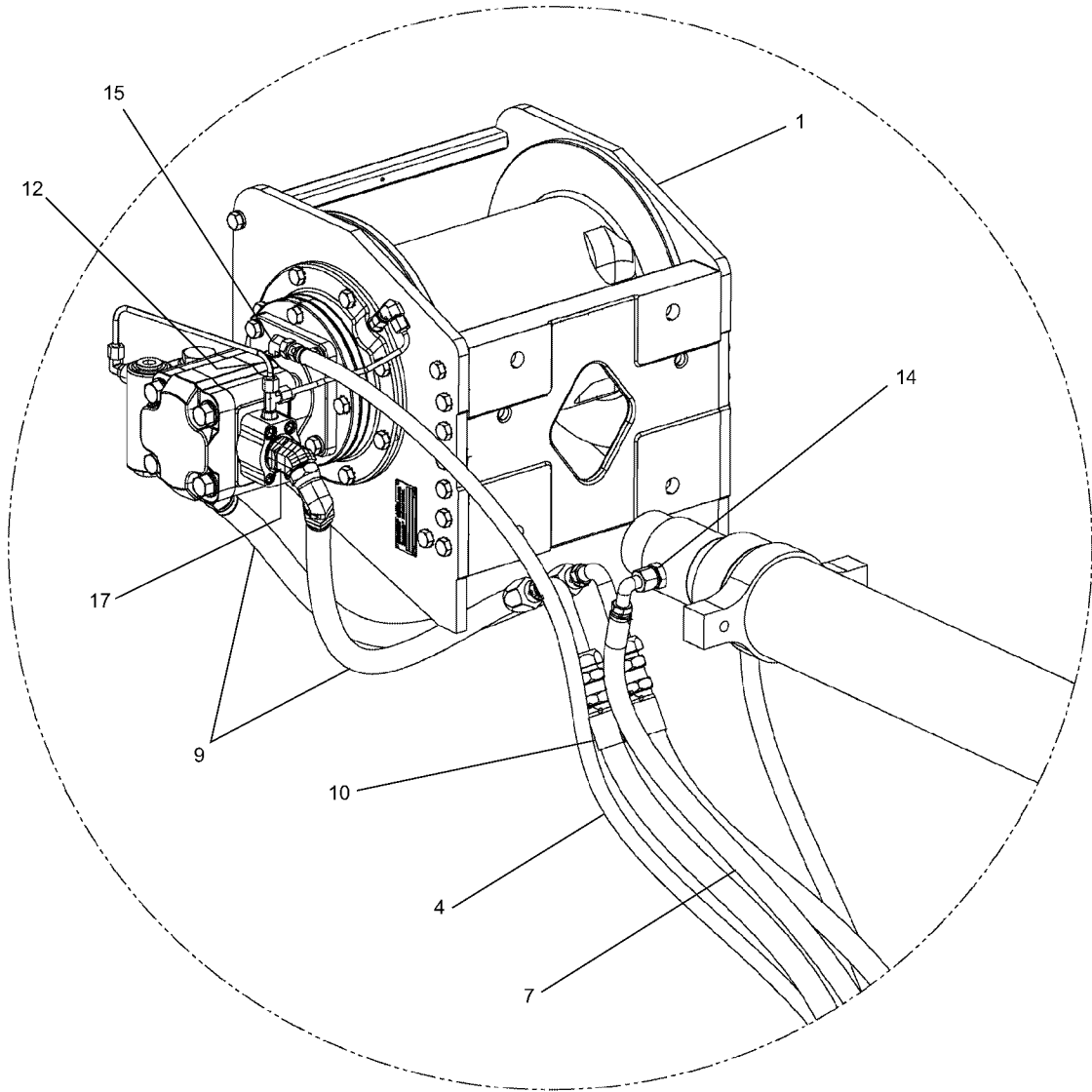
DATE: Revised 07-2009

MODEL: BT3870

PAGE 40.21

GROUP

**40**

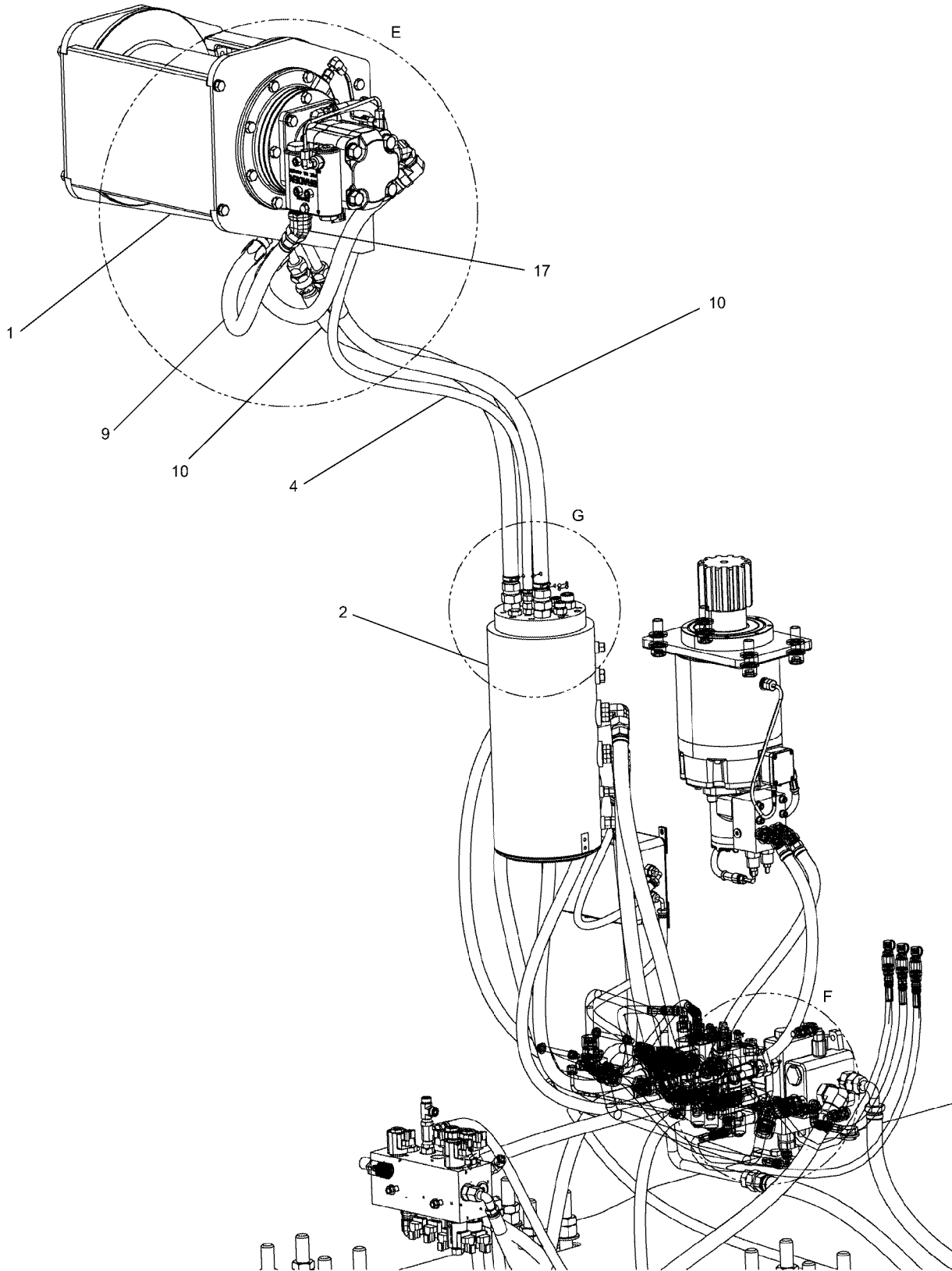


DETAIL D

**SEE PAGE 40.27**

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

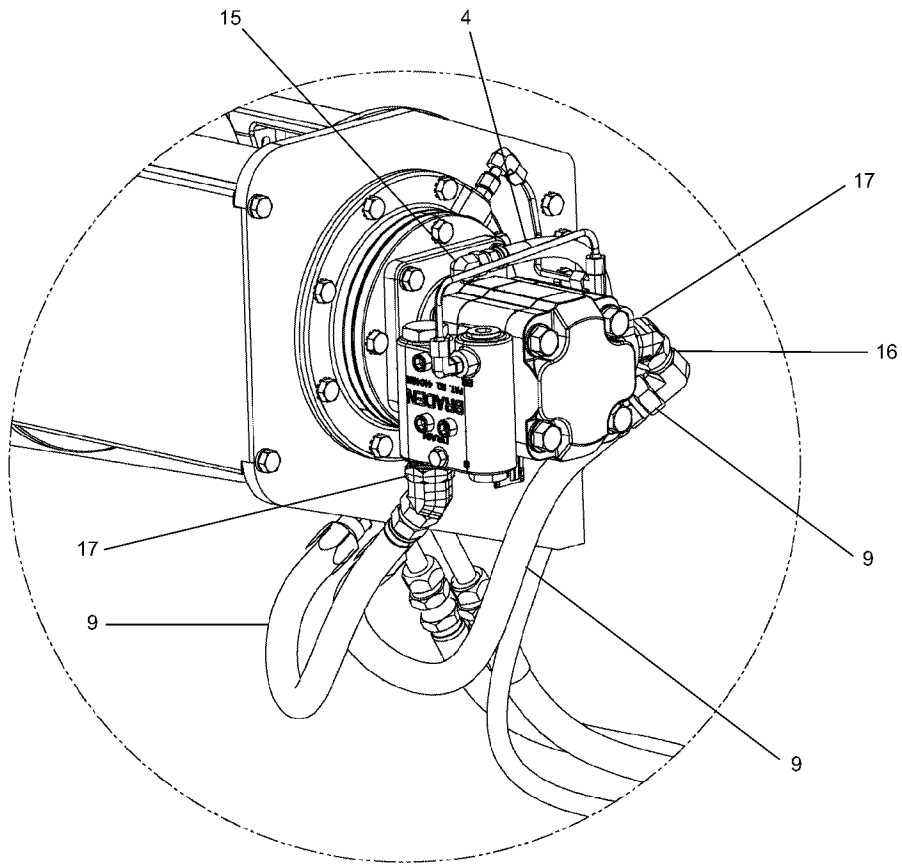
	<b>WINCH MOTOR</b> Continuous Rotation Combined Flow 1 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.22	



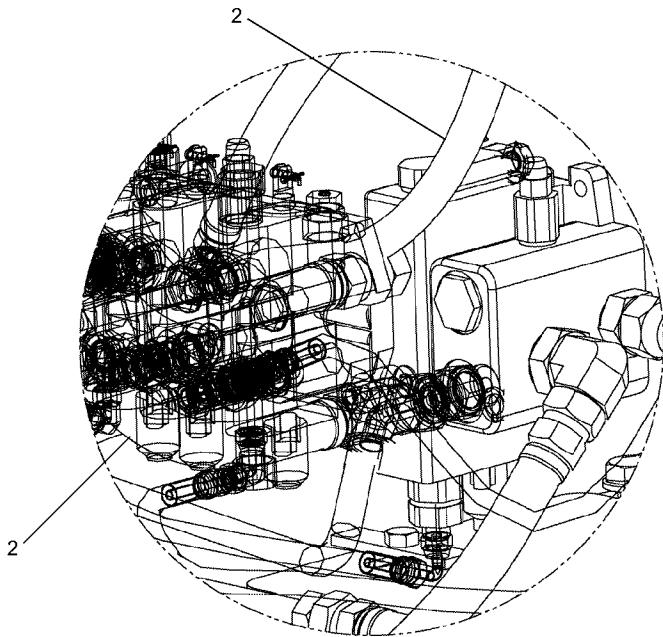
SEE PAGE 40.27

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

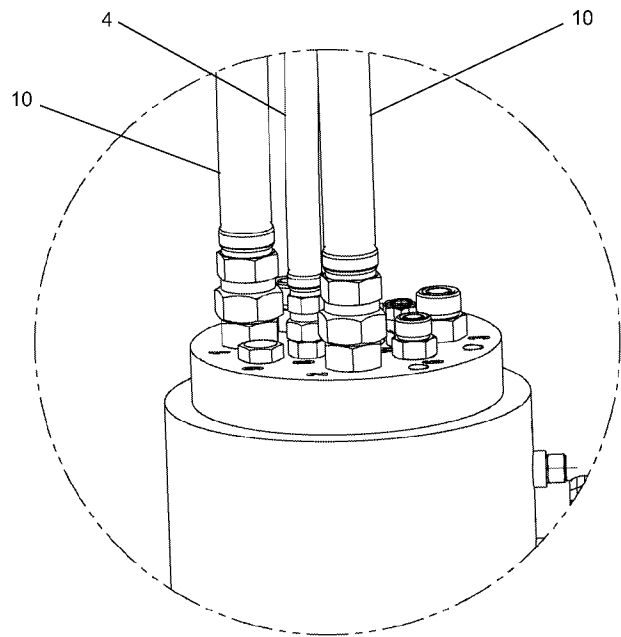
	<b>WINCH MOTOR</b> Continuous Rotation Combined Flow 1 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.23	



DETAIL E



DETAIL F



DETAIL G

**SEE PAGE 40.27**

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



**WINCH MOTOR**  
 Continuous Rotation Combined Flow  
 1 Speed

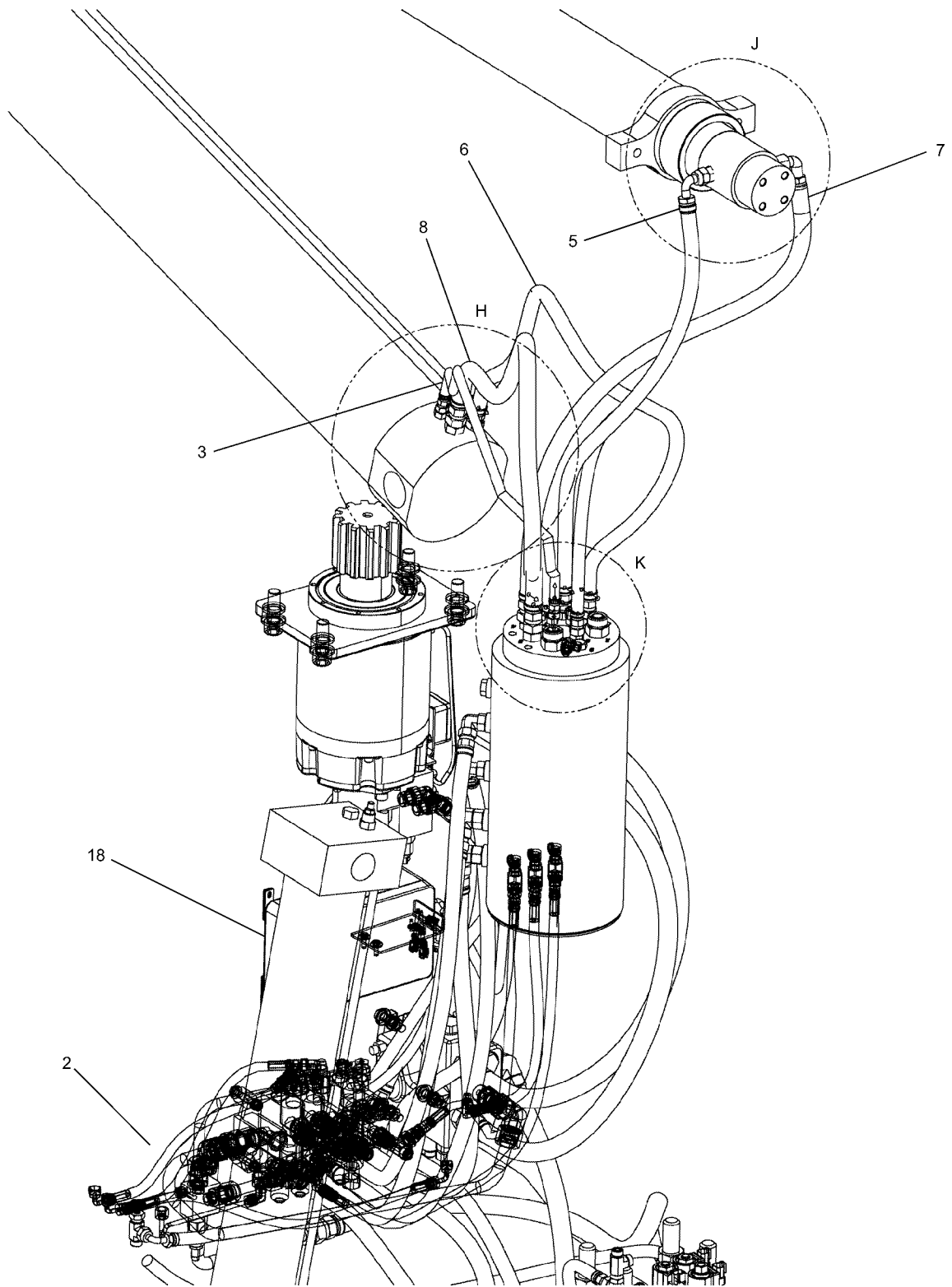
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**40**



**SEE PAGE 40.27**

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



**WINCH MOTOR**  
 Continuous Rotation Combined Flow  
 1 Speed

DATE: Revised 07-2009

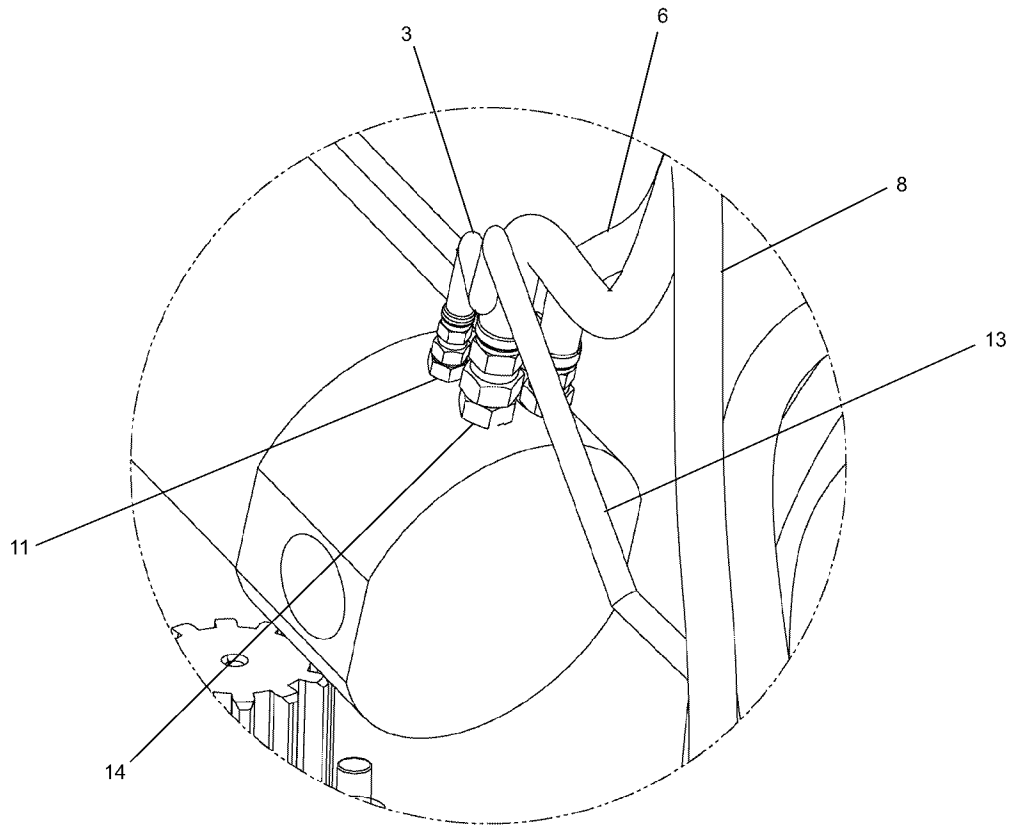
MODEL: BT3870

PAGE 40.25

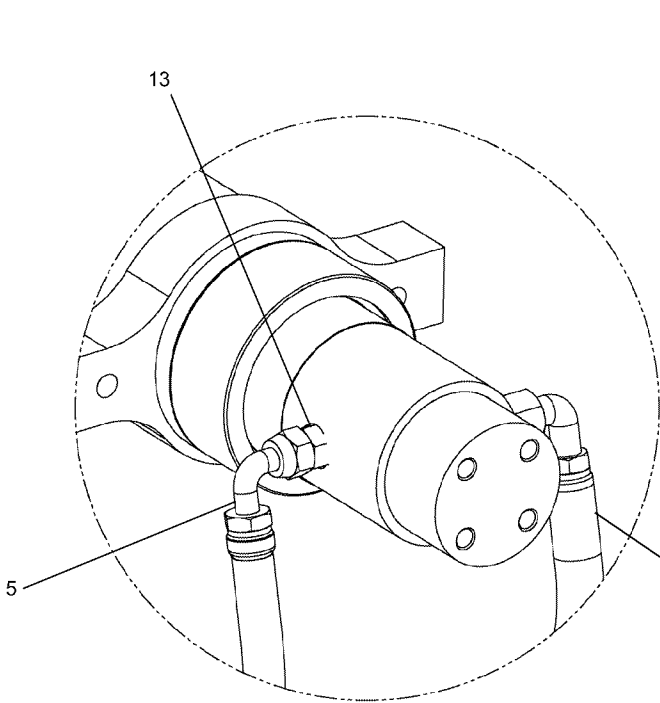
GROUP

**40**

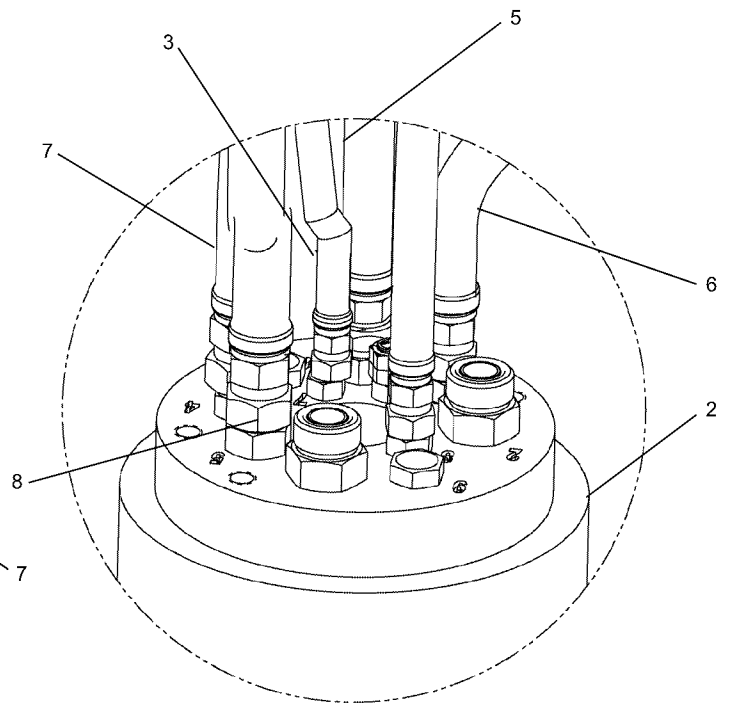




DETAIL H



DETAIL J



DETAIL K

**SEE PAGE 40.27**

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



**WINCH MOTOR**  
 Continuous Rotation Combined Flow  
 1 Speed

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

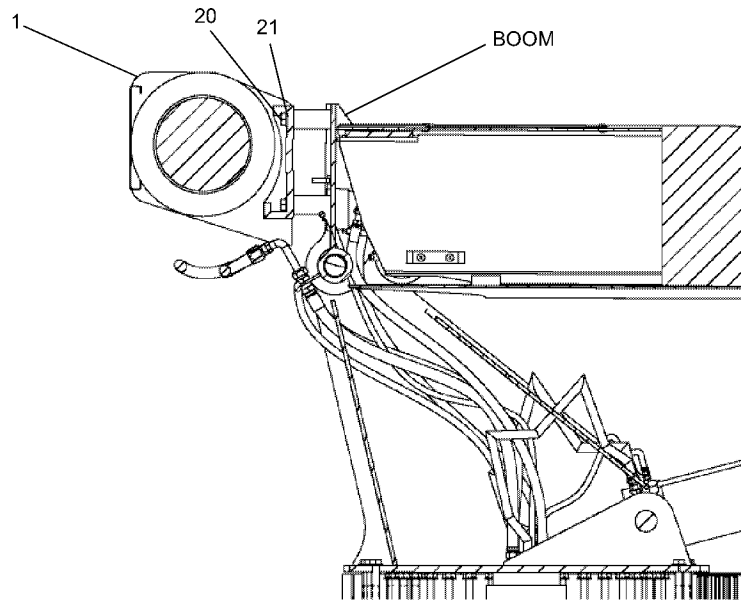
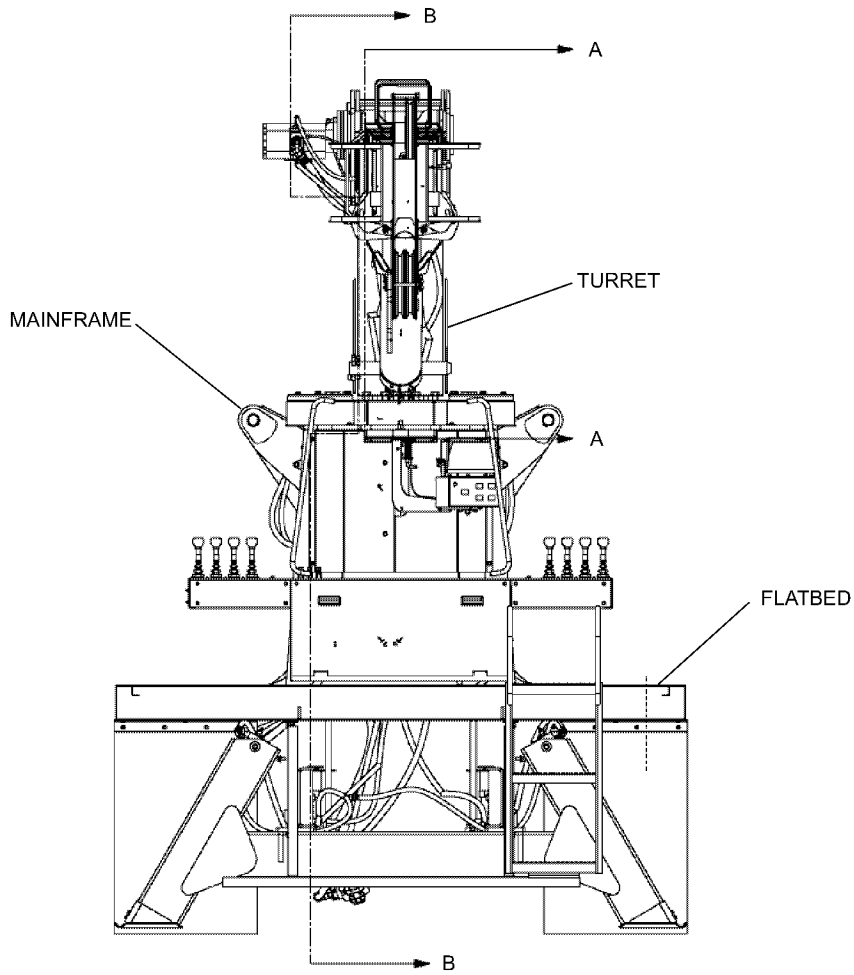
**40**

**SEE PAGES 40.19, 40.20, 40.21, 40.22, 40.23, 40.24, 40.25 & 40.26**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-03	<i>Hydraulic Installation, BT 3870, CON - CF (Items 1-20)</i>	
1	293-00048	Winch, 12,000# .....	1
2	500-01839-03	Hydraulic Installation, Main Outrigger .....	1
3	502-11348	Hose Assembly, RCI/TPG CYL Upper.....	1
4	502-21020	Hose, Winch Drain CF Conrot .....	1
5	502-30783	Hose Assembly, Tele Retract - Upper .....	1
6	502-30786	Hose Assembly, TBG (RET) Upper .....	1
7	502-35084	Hose Assembly, Tele Extend - Upper .....	1
8	502-35088	Hose Assembly, Boom TPG (EXT) Upper .....	1
9	502-41015	Hose Assembly, Winch, Short.....	2
10	502-41016	Hose Assembly, Winch Swivel Upper .....	2
11	513-20019	CONN M#4 OFS X M#6 ORB.....	1
12	513-20027	STR Adapter, FF-2404-6-4 .....	1
13	513-50023	STR CONN M#8 OFS X M#8 ORB.....	2
14	513-60008	CONN M#10 OFS X M#10 ORB.....	2
15	514-64002	Elbow 90 DEG, Swivel, -6.....	1
16	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
17	515-07003	Fitting, 45 DEG, FGFF-6802-12-16.....	2
18	695-10020	Structural Assembly, BT3870.....	REF
19	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8.....	4
20	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	4

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

	<b>WINCH MOTOR</b> Continuous Rotation Combined Flow 1 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.27	



SECTION A - A

**SEE PAGE 40.36**

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

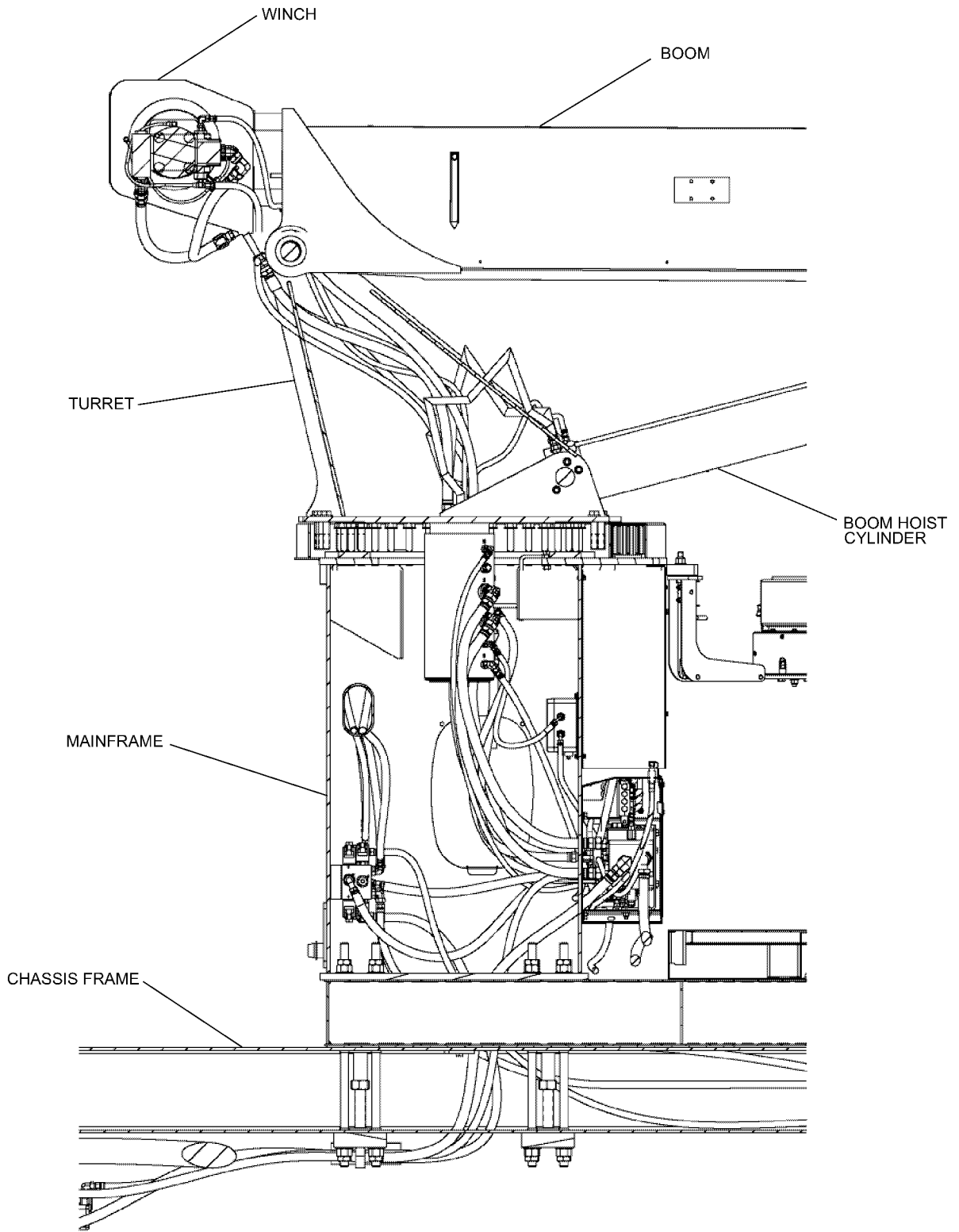
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**40**



SECTION B - B

**SEE PAGE 40.36**

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

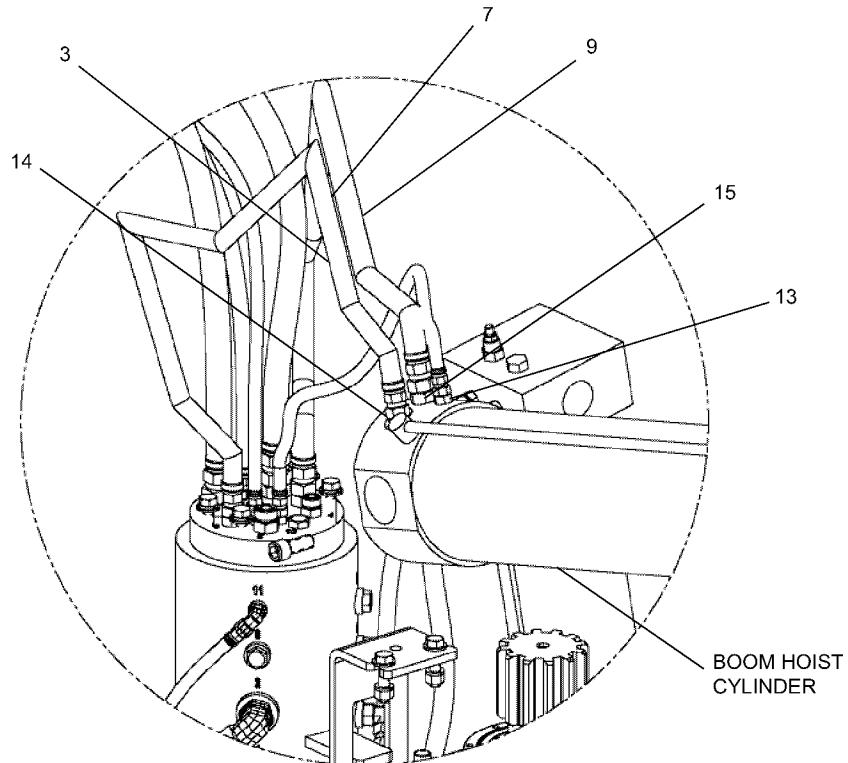
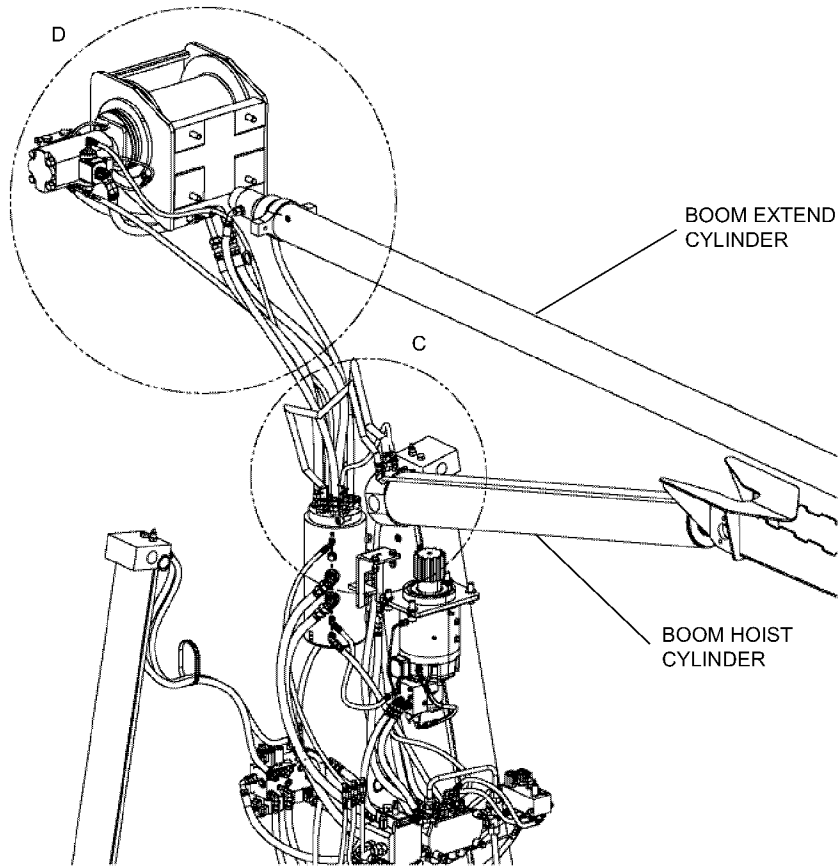
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**40**



DETAIL C

**SEE PAGE 40.36**

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

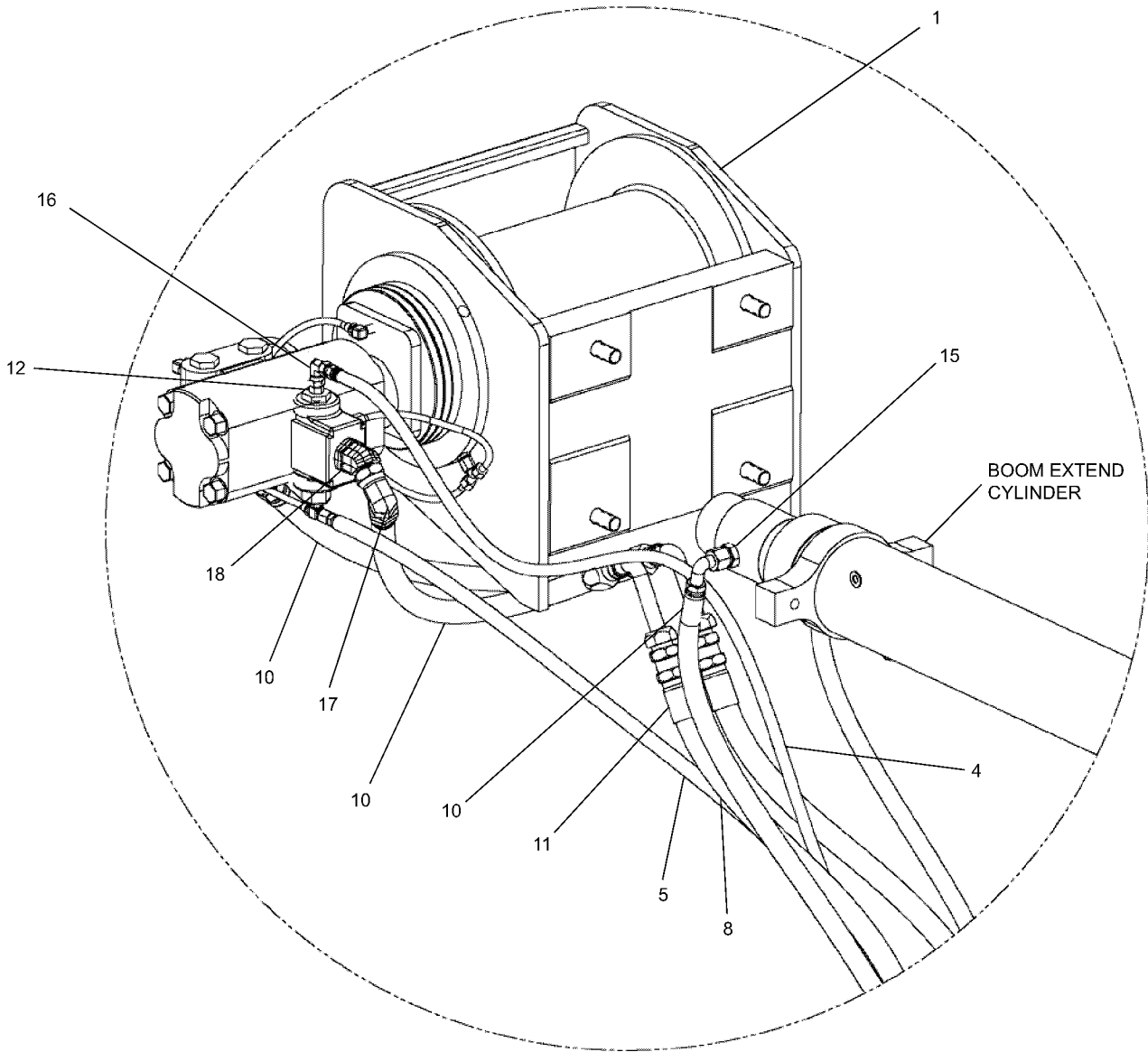
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**40**



DETAIL D

**SEE PAGE 40.36**

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

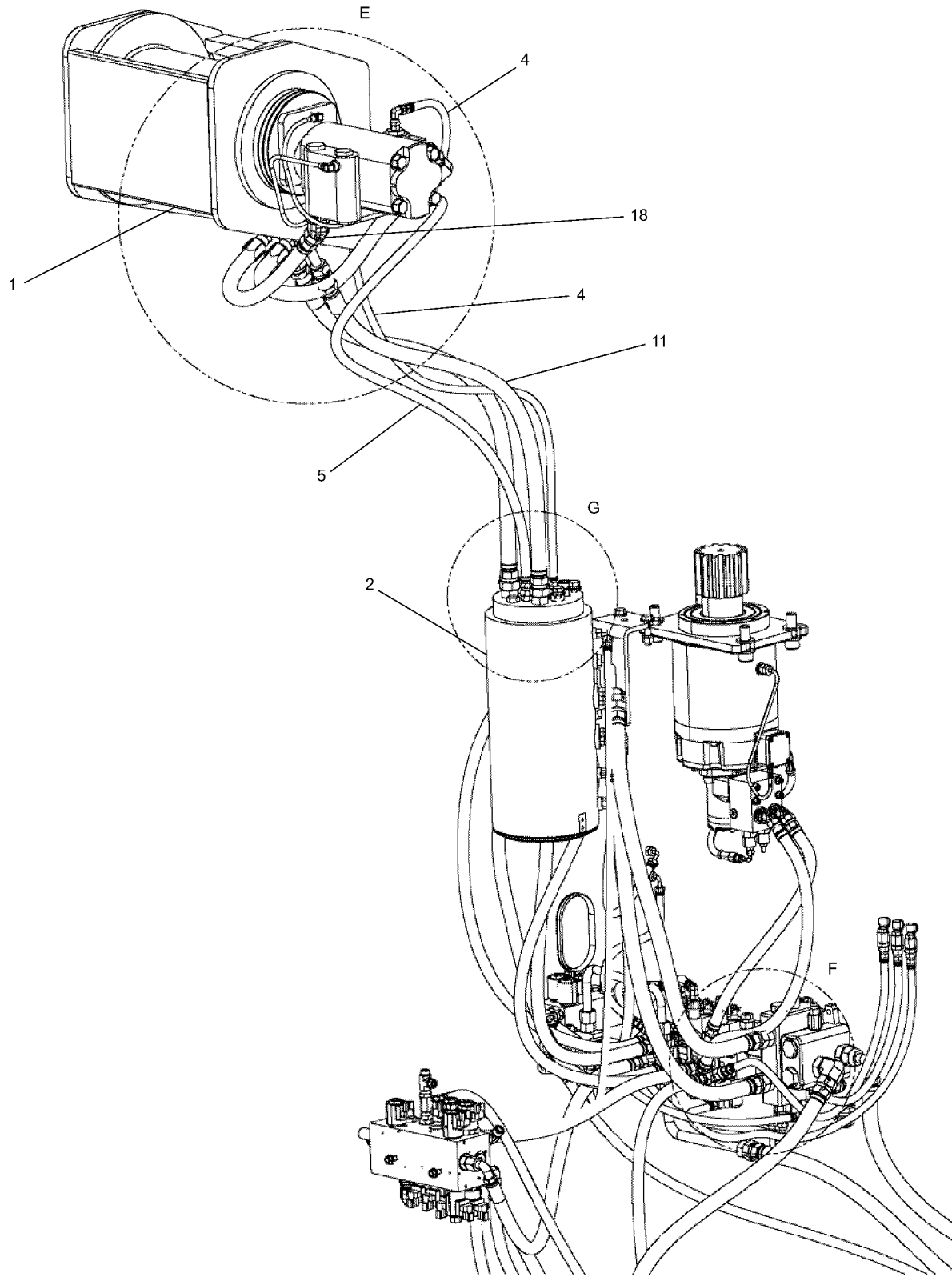
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**40**



SEE PAGE 40.36

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

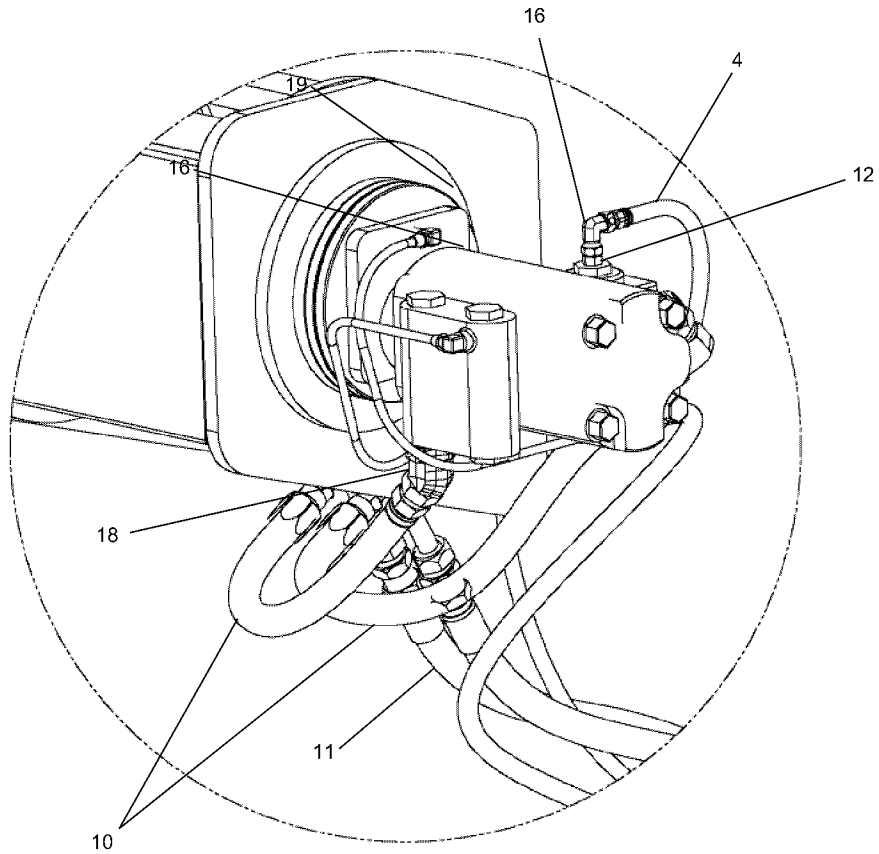
DATE: Revised 07-2009

MODEL: BT3870

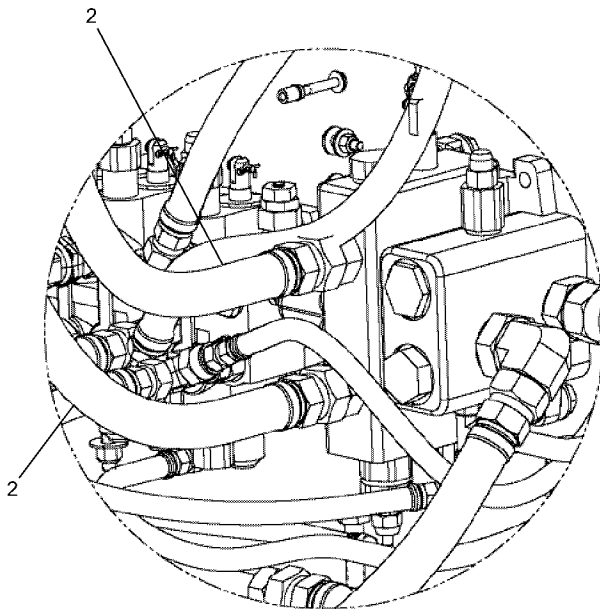
PAGE 40.32

GROUP

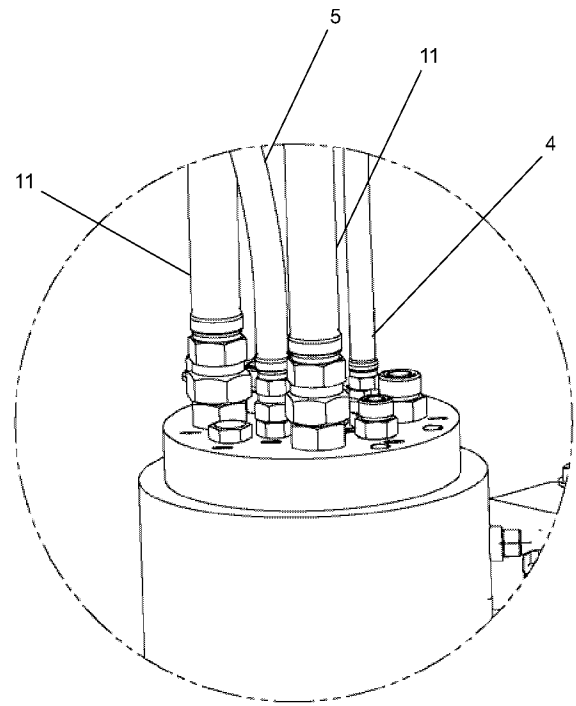
**40**



DETAIL E



DETAIL F



DETAIL G

**SEE PAGE 40.36**

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

DATE: Revised 07-2009

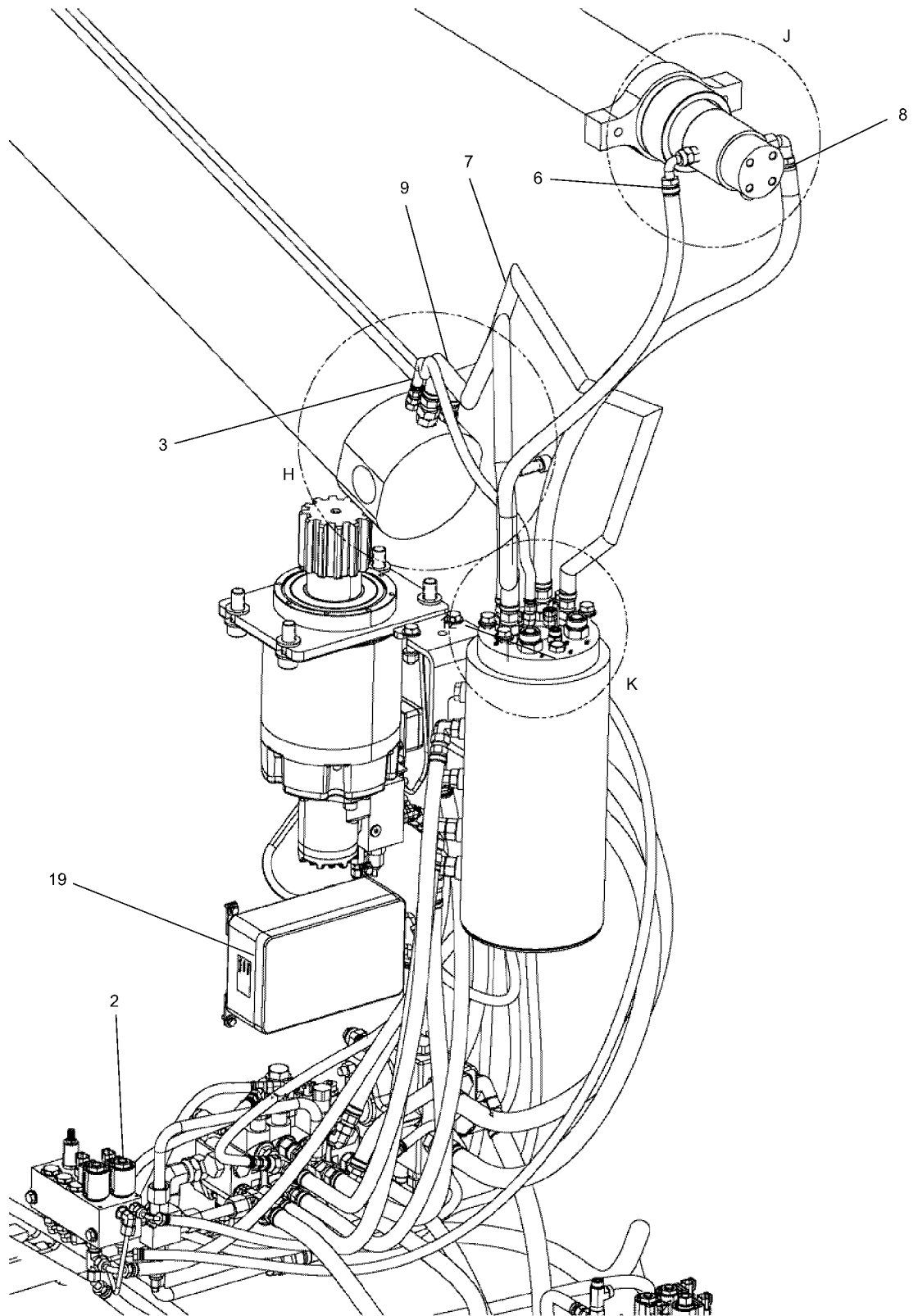
MODEL: BT3870

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GROUP

**40**





**SEE PAGE 40.36**

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

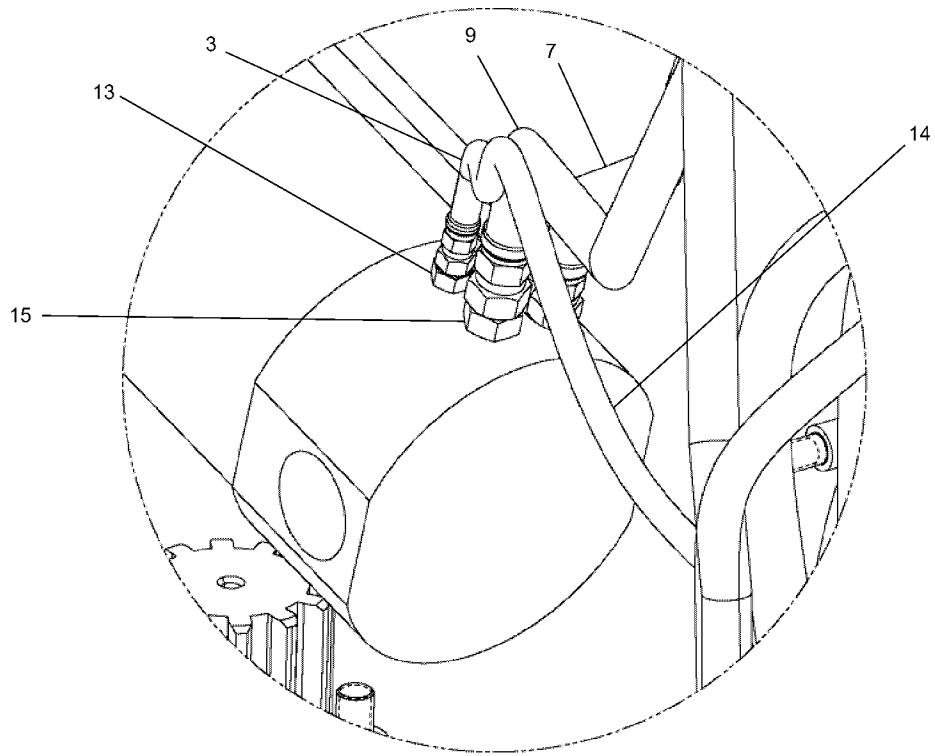
DATE: Revised 07-2009

MODEL: BT3870

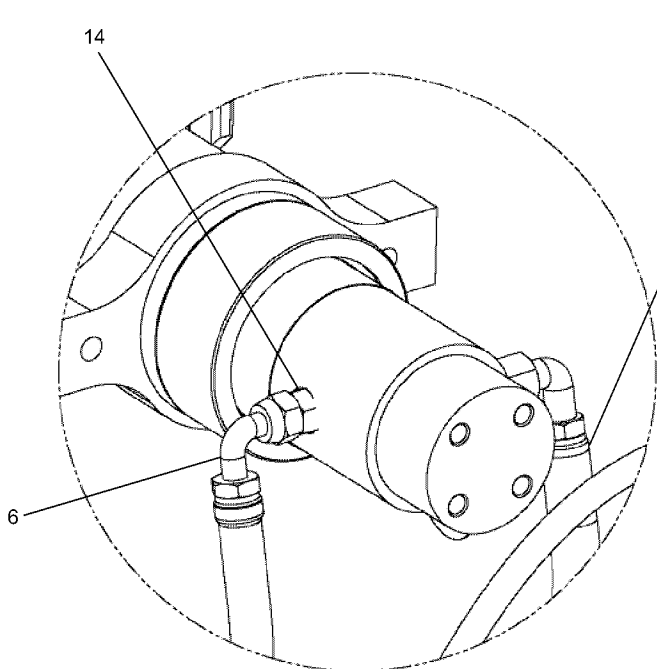
PAGE 40.34

GROUP

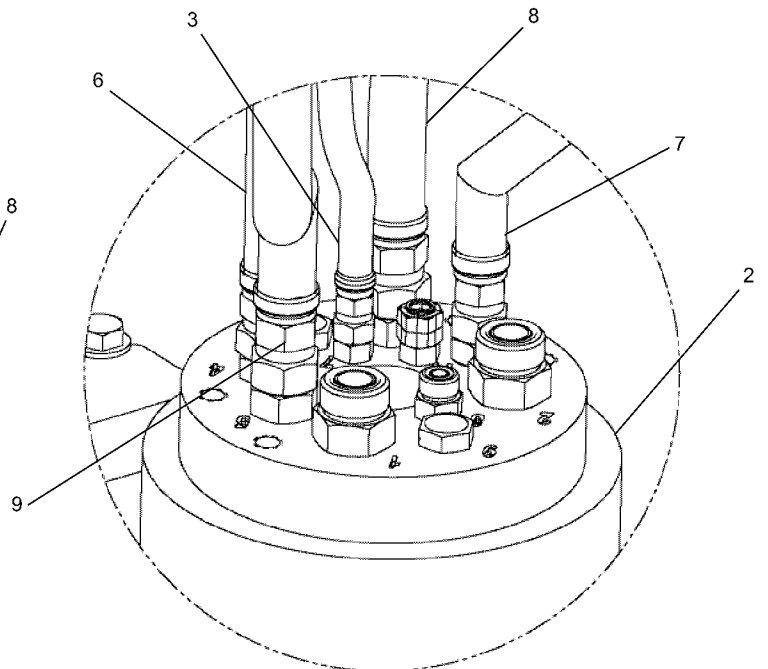
**40**



DETAIL H



DETAIL J



DETAIL K

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



**WINCH MOTOR**  
 Continuous Rotation Motor Shift  
 2 Speed

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

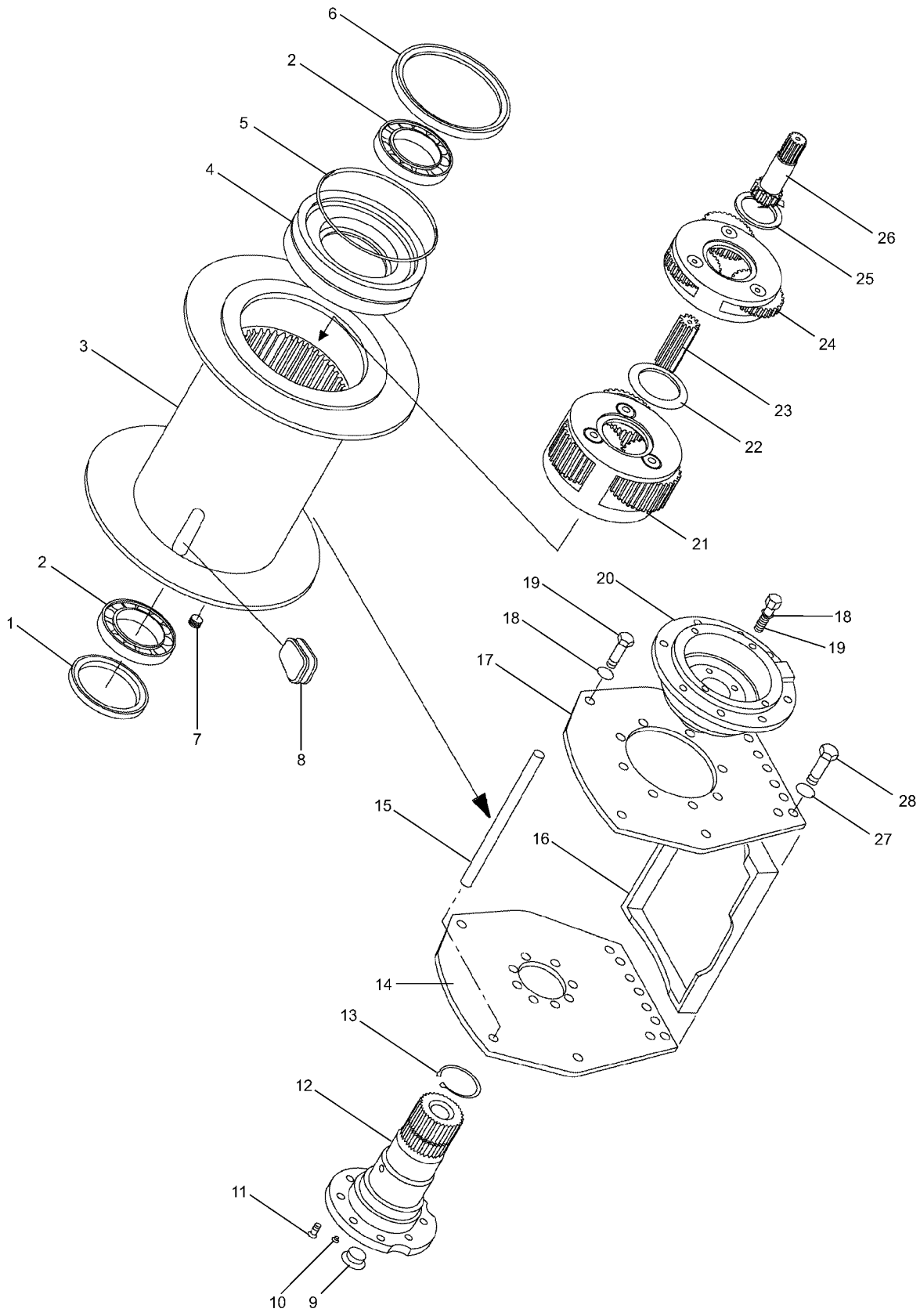
**40**

**SEE PAGES 40.28, 40.29, 40.30, 40.31, 40.32, 40.33, 40.34 & 40.35**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-04	<i>Hydraulic Installation, BT 3870, CON - MS (Items 1-21)</i>	
1	293-00044	Winch Assembly, 12K 2 Speed.....	1
2	500-01839-04	Hydraulic Installation, Main Outrigger .....	1
3	502-11348	Hose Assembly, RCI/TPG CYL Upper.....	1
4	502-11349	Hose Assembly, 2SP Pilot Upper .....	1
5	502-21022	Hose, Winch MTR Drain, Upper .....	1
6	502-30783	Hose Assembly, Tele Retract - Upper .....	1
7	502-30786	Hose Assembly, TBG (RET) Upper .....	1
8	502-35084	Hose Assembly, Tele Extend - Upper .....	1
9	502-35088	Hose Assembly, Boom TPG (EXT) Upper .....	1
10	502-41015	Hose Assembly, Winch, Short.....	2
11	502-41016	Hose Assembly, Winch Swivel Upper .....	2
12	513-20017	STR CONN M#4 OFS X M#4 ORB.....	1
13	513-20019	CONN M#4 OFS X M#6 ORB.....	1
14	513-50023	STR CONN M#8 OFS X M#8 ORB.....	2
15	513-60008	CONN M#10 OFS X M#10 ORB.....	2
16	514-62002	Elbow 90 M0.25OFS X F0.25OFS SW .....	1
17	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
18	515-07003	Fitting, 45 DEG, FGFF-6802-12-16.....	2
19	695-10020	Structural Assembly, BT3870.....	REF
20	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8.....	4
21	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	4

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

	<b>WINCH MOTOR</b> Continuous Rotation Motor Shift 2 Speed	DATE: Revised 07-2009	<b>GROUP</b>  <b>40</b>
		MODEL: BT3870	
		PAGE 40.36	



**SEE PAGE 40.38**

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



**WINCH ASSEMBLY**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

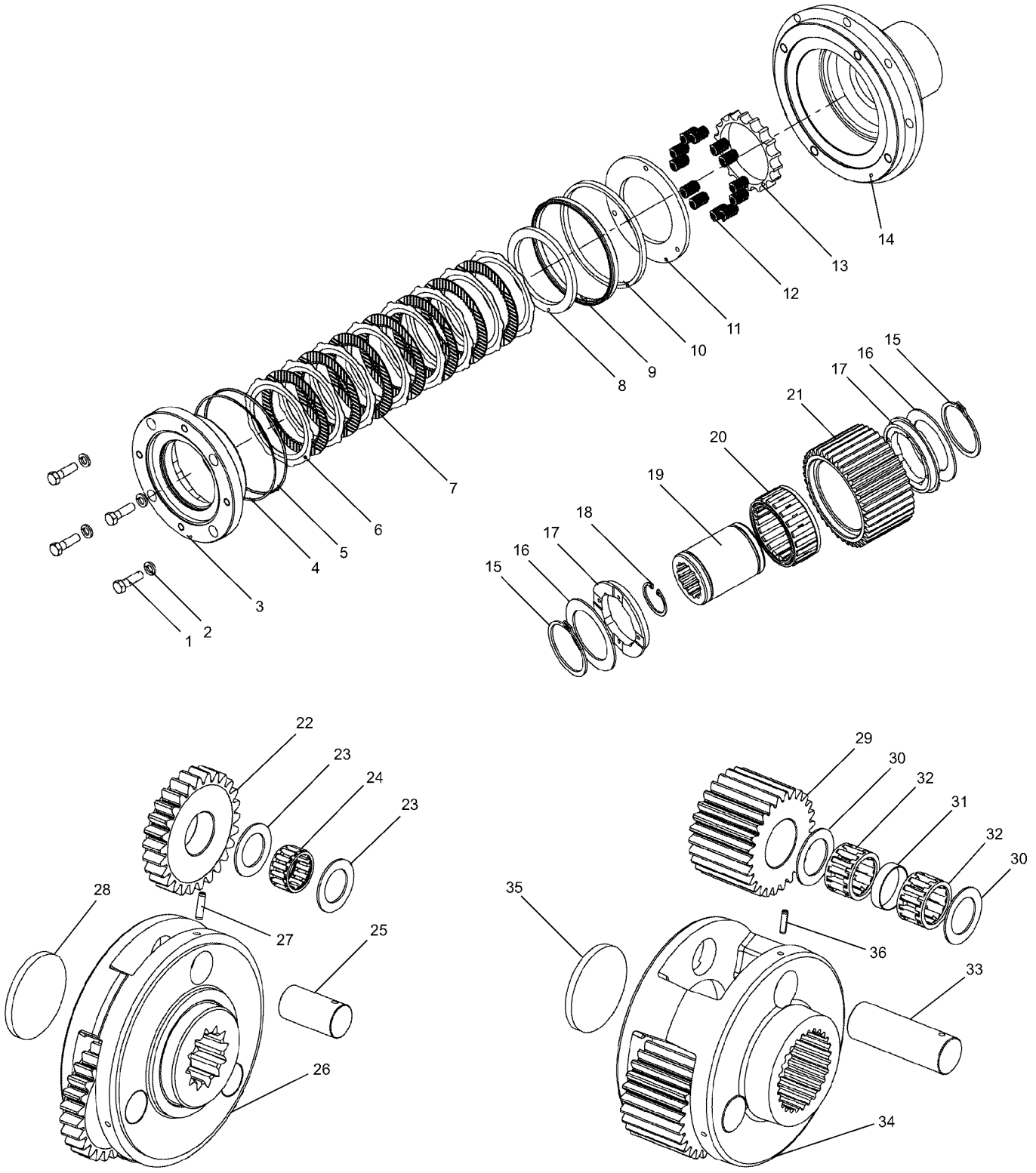
**40**

**SEE PAGE 40.37**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	058-00420	Seal.....	1
2	058-00413	Ball Bearing.....	2
3	058-00581	Cable Drum.....	1
4	058-00582	Cable Drum Closure.....	1
5	058-00190	O-Ring.....	1
6	058-00422	Seal.....	1
7	058-00426	Drain Plug.....	1
8	058-00639	Cable Wedge.....	1
9	058-00595	Plug.....	1
10	058-00608	Vent Plug.....	1
11	058-00640	Capscrew (flat head, socket).....	8
12	058-00636	Bearing Support.....	1
13	058-00423	Retaining Ring.....	1
14	058-00599	Sideplate, Support End.....	1
15	058-00444	Spacer bar.....	2
16	058-00579	Base.....	1
17	058-00598	Sideplate, Motor End.....	1
18	058-00034	Lockwasher (1/2).....	12
19	058-00776	Capscrew (1/2 - 13 X 1-1/2 G5).....	12
20	058-00797	Brake Cylinder Assembly.....	1
21	058-00401	Output Planet Carrier Assembly.....	1
22	058-00611	Thrust Washer.....	1
23	058-00415	Output Sun Gear.....	1
24	058-00796	Primary Planet Carrier Assembly.....	1
25	058-00610	Thrust Washer.....	1
26	058-00416	Primary Sun Gear.....	1
27	058-00607	Lockwasher (1/2 external tooth).....	16
28	058-00775	Capscrew (1/2-13 X 1-1/2 Grade 8 Z).....	16

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

	<p align="center"><b>WINCH ASSEMBLY</b></p>	DATE: Revised 07-2009	<p align="center"><b>GROUP</b> <b>40</b></p>
		MODEL: BT3870	
		PAGE 40.38	



**SEE PAGE 40.40**

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



**WINCH ASSEMBLY**

DATE: Revised 07-2009

MODEL: BT3870

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**GROUP**

**40**

**SEE PAGE 40.39**

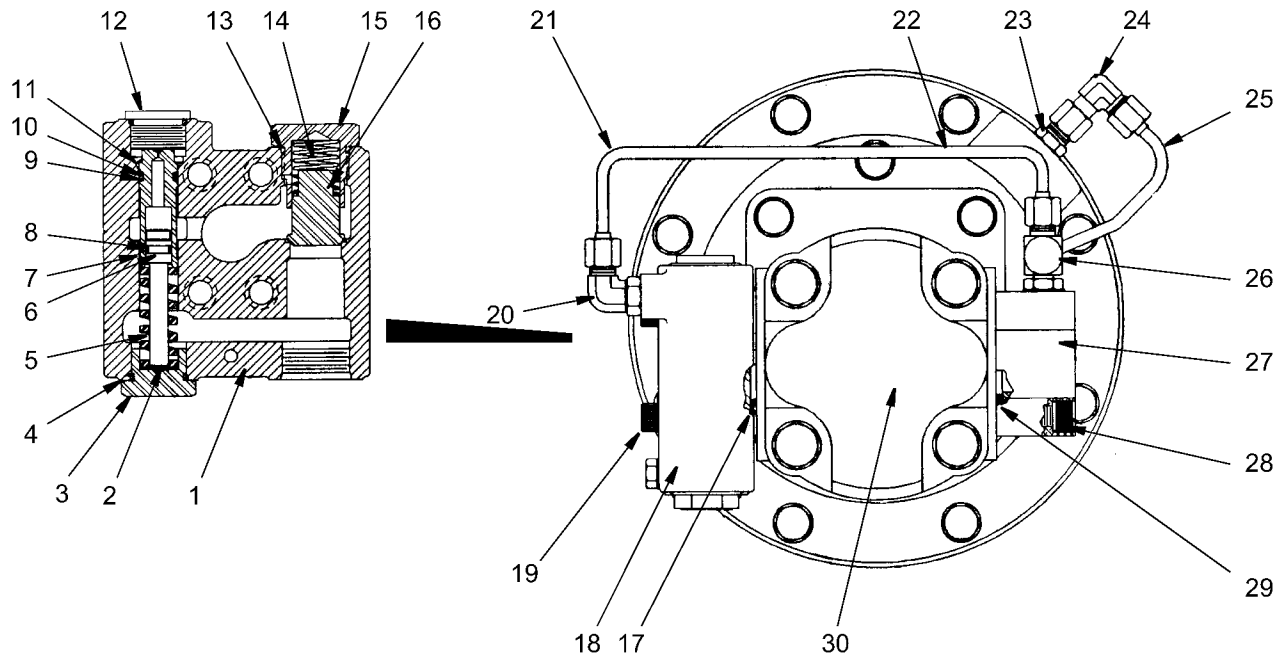
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	058-00797	Brake Cylinder Assembly (Items 1 to 14)	
1	058-00436	Capscrew (1/2 - 13 X 2 G8 Z).....	4
2	058-00034	Lockwasher (1/2) .....	4
3	058-00637	Motor Adapter .....	1
4	058-00435	Backup Ring.....	1
5	058-00434	O-Ring.....	1
6	058-00629	Disc - Steel.....	8
7	058-00634	Disc - Friction .....	7
8	058-00433	Spacer.....	1
9	058-00429	Seal.....	1
10	058-00432	Backup Ring.....	1
11	058-00430	Pressure Plate .....	1
12	058-00431	Spring.....	12
13	058-00643	Spring Spacer .....	1
14	058-00632	Brake Cylinder .....	1
	058-00597	Brake Clutch Assembly (Items 15 to 21)	
15	058-00390	Retaining Ring .....	2
16	058-00389	Thrust Washer .....	2
17	058-00609	Sprag Bearing .....	2
18	058-00391	Retaining Ring .....	1
19	NSS	Inner Brake Race .....	1
20	NSS	Sprag Clutch .....	1
21	NSS	Outer Brake Race .....	1
	058-00796	Primary Planet Carrier Assembly (Items 22 to 28)	
22	058-00585	Primary Planet Gear .....	3
23	058-00398	Thrust Washer .....	6
24	058-00397	Roller Bearing .....	3
25	058-00396	Primary Planet Gear Shaft.....	3
26	058-00584	Primary Planet Carrier .....	1
27	058-00399	Spirol Pin.....	3
28	058-00400	Primary Thrust Plate .....	1
	058-00401	Output Planet Carrier Assembly (Items 29 to 36)	
29	058-00403	Output Planet Gear .....	3
30	058-00407	Thrust Washer .....	6
31	058-00406	Bearing Spacer .....	3
32	058-00405	Roller Bearing .....	6
33	058-00404	Output Planet Gear Shaft.....	3
34	058-00402	Output Planet Carrier .....	1
35	058-00408	Output Thrust Plate.....	1
36	058-00627	Roll Pin.....	3
37*	058-00728	Winch Seal Kit	
38*	269-00111	Motor Seal Kit	
39*	058-00628	Brake Valve Seal Kit	

NSS - Not Serviced Separately

\*ITEM NOT SHOWN

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

	<p align="center"><b>WINCH ASSEMBLY</b></p>	DATE: Revised 07-2009	<p align="center"><b>GROUP</b> <b>40</b></p>
		MODEL: BT3870	
		PAGE 40.40	



REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
1		Housing .....	1	16		Check Valve Poppet.....	1
2	058-00660	Valve Spring Shim .....	AR	17	058-00586	O-Ring.....	1
3	058-00649	Spring, Retainer.....	1	18	058-00085	Brake Valve Assembly .....	1
4	058-00655	O-Ring .....	1	19	058-00647	Capscrew .....	4
5	058-00654	Spool, Spring .....	1	20	058-00593	Adapter, 90 Deg. ....	1
6		Damper Piston.....	1	21	058-00588	Tube (Brake Valve To Manifold) .....	1
7	058-00657	O-Ring .....	1	22	058-00576	Capscrew .....	4
8	058-00659	Backup Ring .....	1		058-00034	Washer, Lock .....	4
9	058-00656	O-Ring .....	1	23	058-00590	Adapter, Straight .....	1
10	058-00658	Backup Ring .....	1	24	058-00591	Adapter, 90 Deg. ....	1
11		Spool .....	1	25	058-00589	Tube, (Manifold to Brake Release) .....	1
12	058-00650	Plug, (With O-Ring.....)	1	26	516-82006	Tee .....	1
13	058-00651	O-Ring .....	1	27	058-00586	Manifold.....	1
14	058-00653	Check Valve Spring.....	1	28	058-00547	Capscrew .....	4
15	058-00648	Spring, Retainer.....	1	29	058-00546	O-Ring.....	2
				30	Page 40.9	Hydraulic Motor .....	1

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



## WINCH BRAKE VALVE

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

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<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	861-60109	Hook Block-1 Sheave/15 Ton	

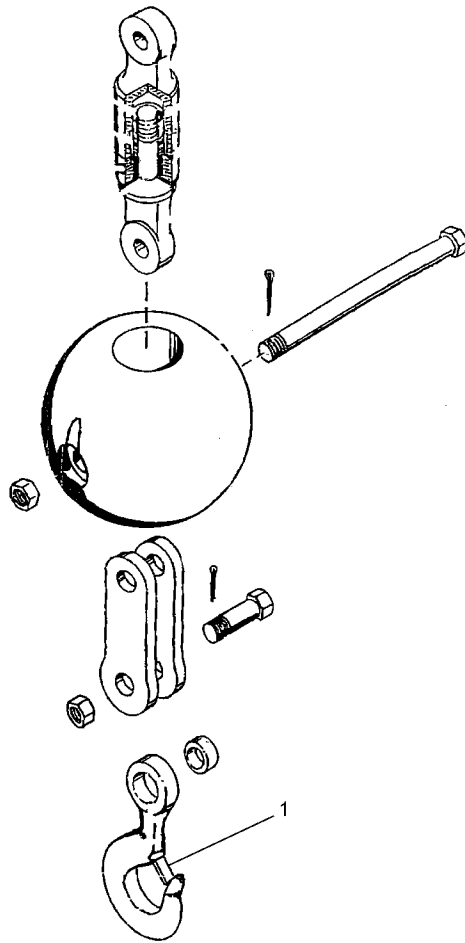
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	<b>HOOK BLOCK - 1 SHEAVE 15 TON</b>	DATE: Revised 07-2009	<b>GROUP 44</b>
		MODEL: BT3870	
		PAGE 44.1	

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	861-60110	Hook Block-2 Sheave/25 Ton	

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

	<b>HOOK BLOCK - 2 SHEAVE 25 TON</b>	DATE: Revised 07-2009	<b>GROUP 44</b>
		MODEL: BT3870	
		PAGE 44.2	



<u>REF.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
	861-90288	Hook Ball 6 1/4 Ton Swivel	
1	209-00714	Latch Kit	

*Contact Terex Service for parts availability*


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

	<b>HOOK BALL - 6 1/4 TON</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>44</b>
		MODEL: BT3870	
		PAGE 44.3	

<u>REF.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
	861-60087	Hook Ball-7 Ton Swivel	

*Contact Terex Service for parts availability*

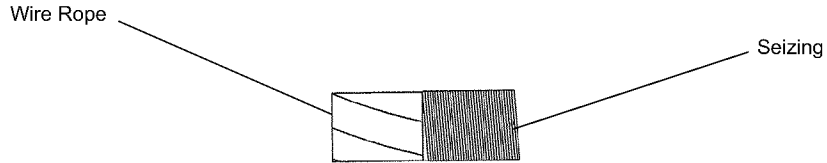
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	<b>HOOK BALL - 7 TON SWIVEL</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>44</b>
		MODEL: BT3870	
		PAGE 44.4	

<u>REF.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
	861-60089	Hook Ball-7 Ton Non-Swivel	
<i>Contact Terex Service for parts availability</i>			

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

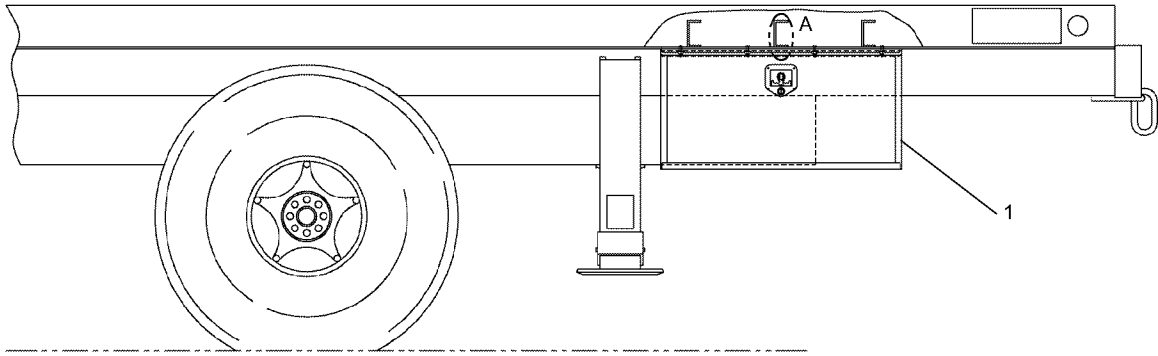
	<b>HOOK BALL - 7 TON NON-SWIVEL</b>	DATE: Revised 07-2009	<b>GROUP 44</b>
		MODEL: BT3870	
		PAGE 44.5	



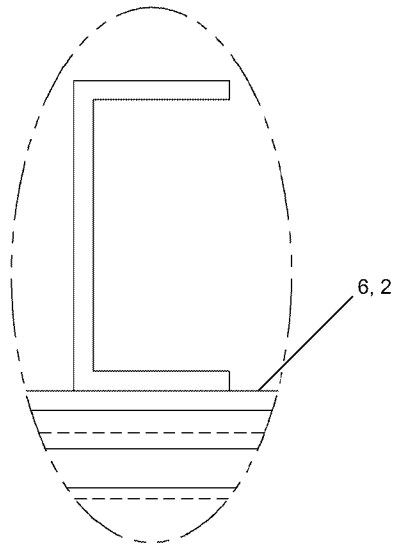
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	861-16098	9/16" Wire Rope Spec.	

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

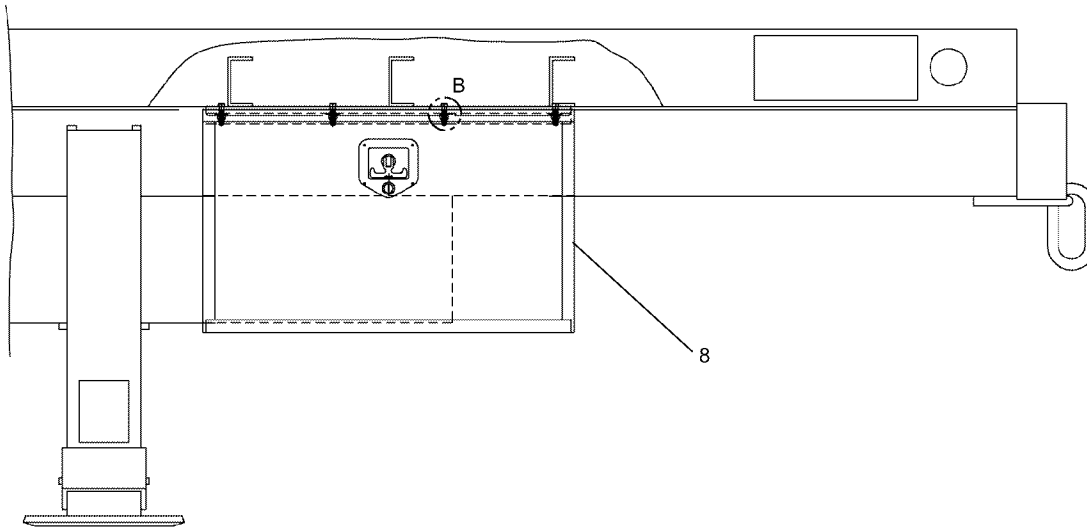
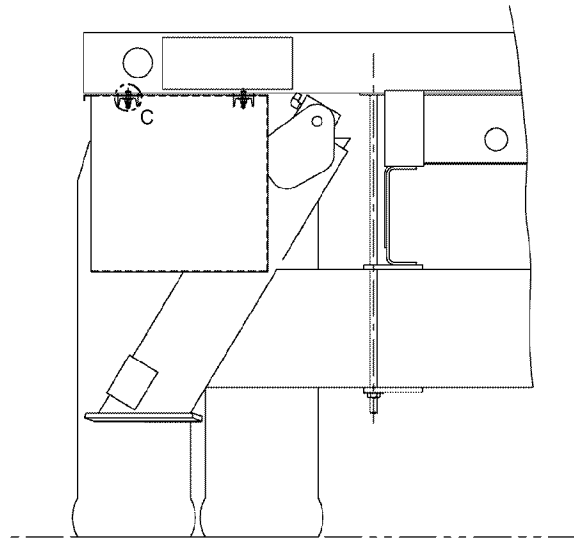
	<b>WIRE ROPE AND REVEEING</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>45</b>
		MODEL: BT3870	
		PAGE 45.1	



← FRONT OF TRUCK



DETAIL A



**SEE PAGE 51.2**

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



**TOOL BOX INSTALLATION**

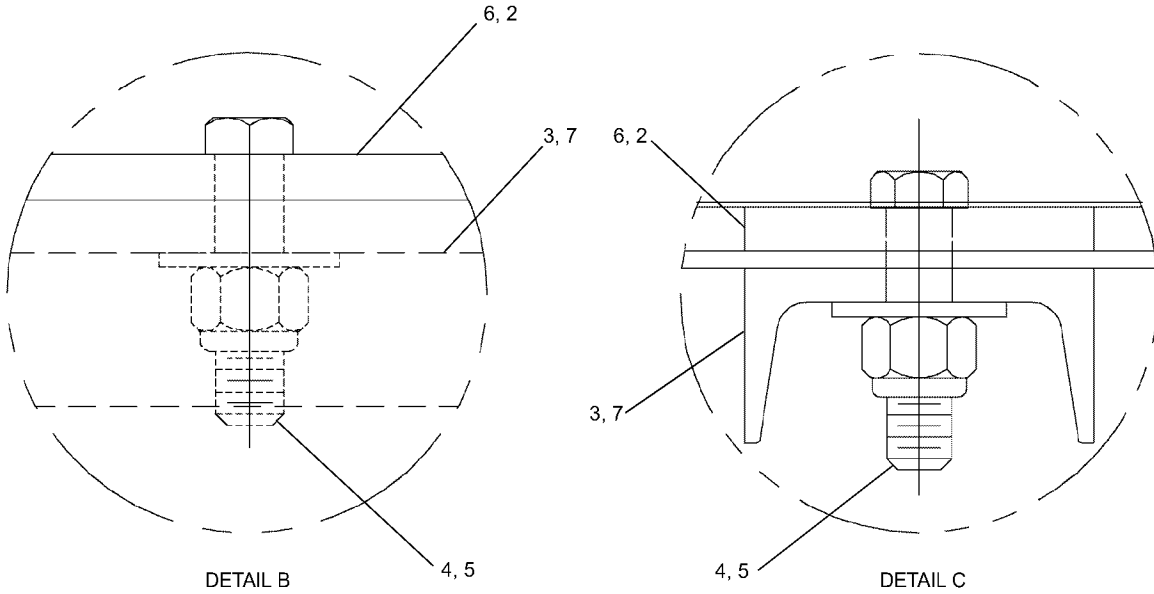
DATE: Revised 07-2009

MODEL: BT3870

PAGE 51.1

GROUP

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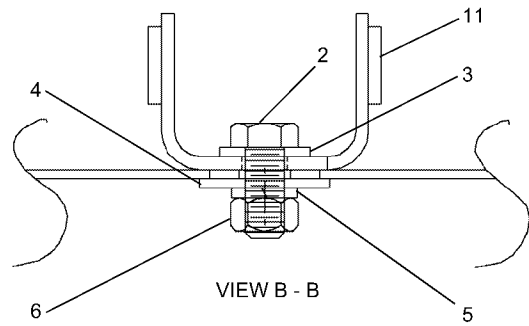
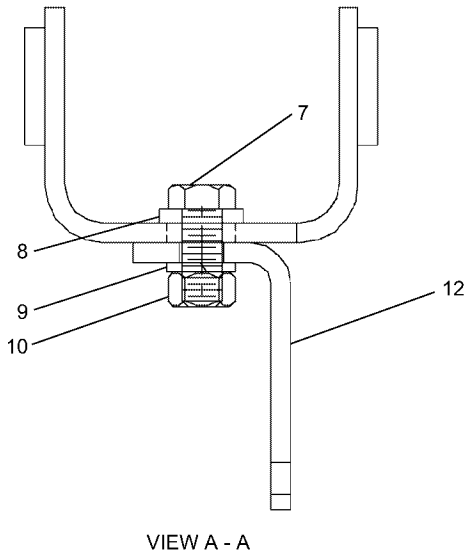
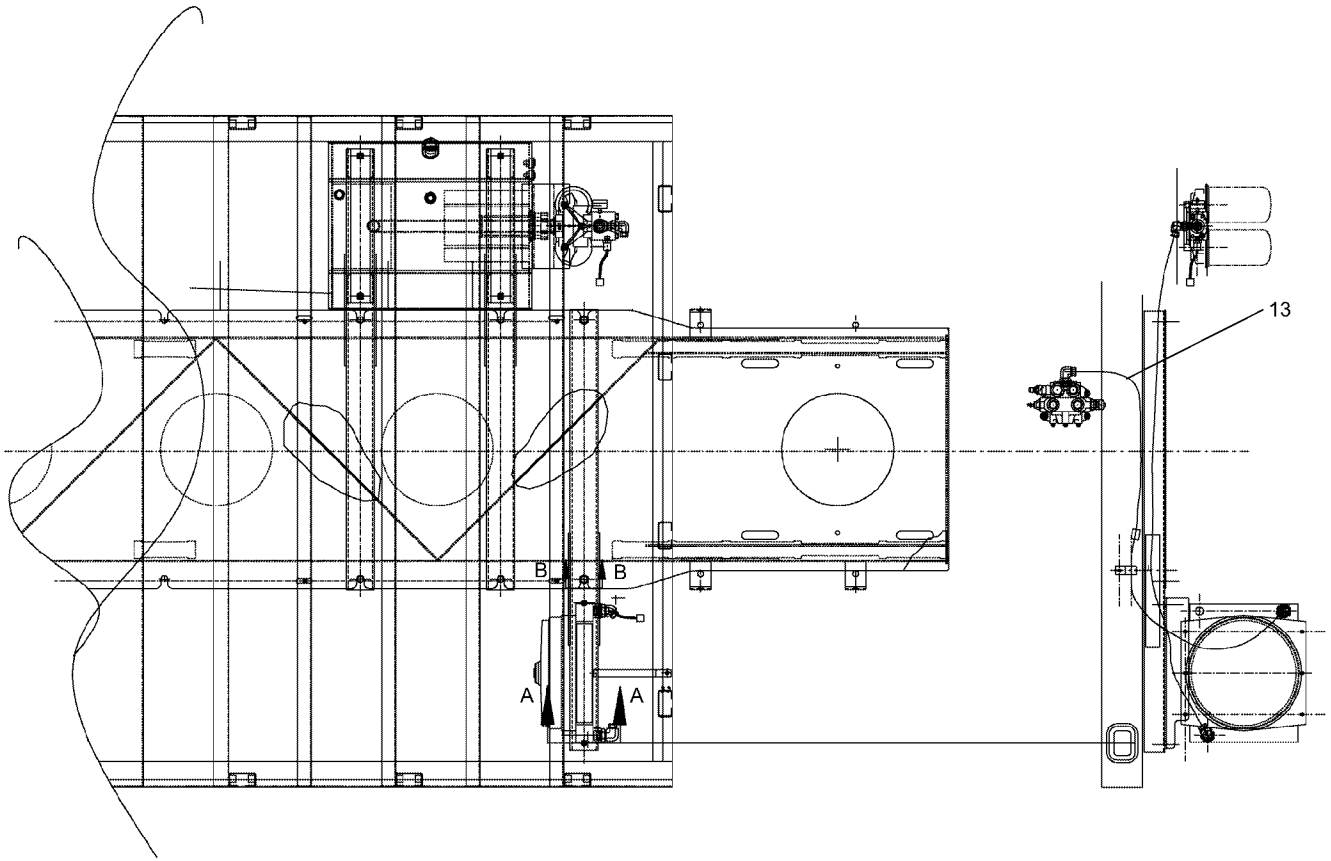
**SEE PAGE 51.1**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	697-00007	<i>Tool Box Installation</i>	
	697-00007-1	<i>Tool Box Installation (36" Box) (Items 1-5)</i>	
	697-00007-2	<i>Tool Box Installation (30" Box) (Items 4-8)</i>	
1	600-32312	Tool Box - 36 X 18 X 18.....	1
2	770-02848.3	Stud Bar - 36" Tool Box S/W .....	2
3	786-01897.3	36" Tool Box MTG Channel.....	1
4	221-00032-2	Nylon Lock HEX Nut 3/8-16 Zinc.....	8
5	222-00025-8	Flatwasher, 3/8 Zinc PLTD .....	8
6	770-02847.3	Stud Bar - 30" Tool Box S/W .....	2
7	786-01896.3	30" Tool Box MTG Channel.....	1
8	600-32576	Tool Box - 30 X 18X 18.....	1

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

	<b>TOOL BOX INSTALLATION</b>	DATE: Revised 07-2009	<b>GROUP</b>  <b>51</b>
		MODEL: BT3870	
		PAGE 51.2	





**SEE PAGE 51.4**

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



**OIL COOLER INSTALLATION**

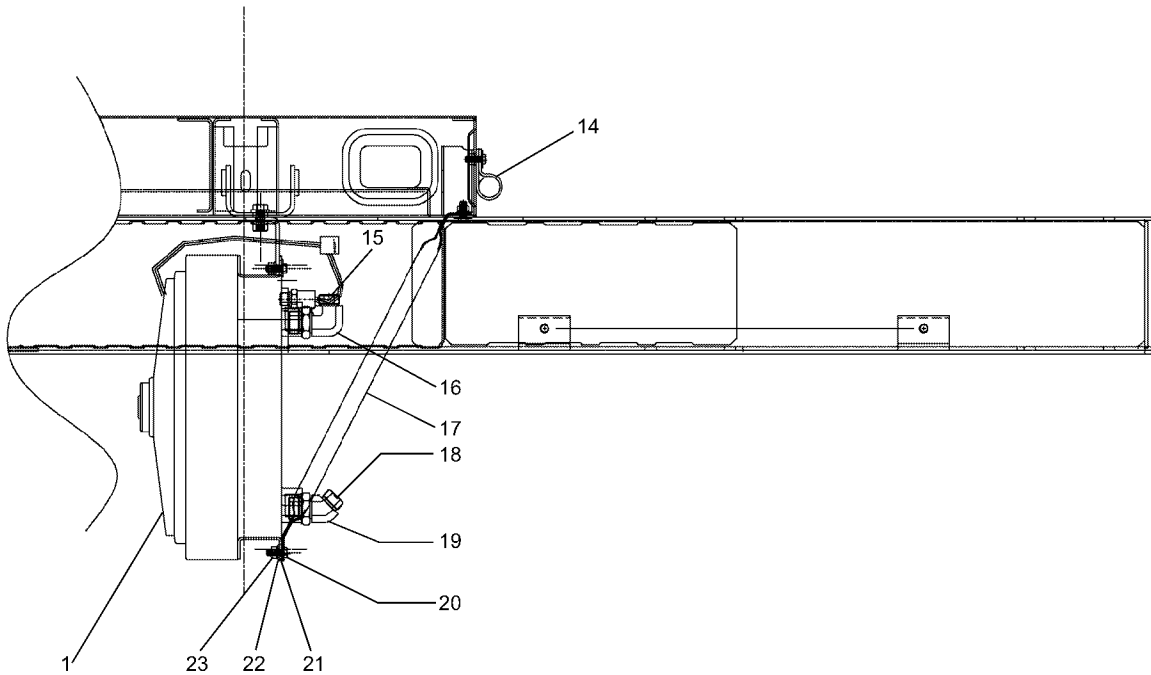
DATE: Revised 07-2009

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PAGE 51.3

GROUP

**51**



**SEE PAGE 51.3**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01841	<i>Install, Oil Cooler (Items 1-23)</i>	
1	501-05021	Cooler, HYD Oil .....	1
2	220-07058-25	HHCS 0.75-10X1.75,ST YZ .....	2
3	222-00026-8	Washer, FL HRD A-NRW 0.75, ST Y .....	2
4	222-00027-33	Fender Washer 3/4 X 2.50 .....	2
5	222-00028-16	Washer, LCK, MED SPLT 0.75, ST .....	2
6	221-00028-8	HEX Nut 3/4-10 GR8 Zinc .....	2
7	220-04065-17	HHCS 1/2-13 X 1.25 GR5 Zinc .....	2
8	222-00025-10	Washer, FL TYPA-NRW 0.50, ST Z .....	2
9	220-00028-13	Washer, LCK, MED SPLT 0.50, ST .....	2
10	221-00027-5	Nut, HEX 0.50-13, ST Z GR5 .....	2
11	785-90370.3	.....	
12	785-02123	.....	
13	502-41017	RE-Routed From Return Manifold .....	
14	200B2007-10	Clamp .....	
15	502-41013	Hose, To Return Manifold .....	
16	514-59023	90 Elbow M#12 OFS M#16 ORB .....	
17	785-02124	.....	
18	502-41016	Hose, From Winch Valve Return .....	
19	515-07003	45 Elbow M#12 OFS M#16 ORB .....	
20	220-01407-13	HHCS 5/16-18 X 1 GR5 .....	6
21	222-00025-7	5/16 Flat Washer .....	6
22	222-00028-10	5/16 Lock Washer .....	6
23	221-00027-2	5/16-18 HEX Nut .....	6

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



**OIL COOLER INSTALLATION**

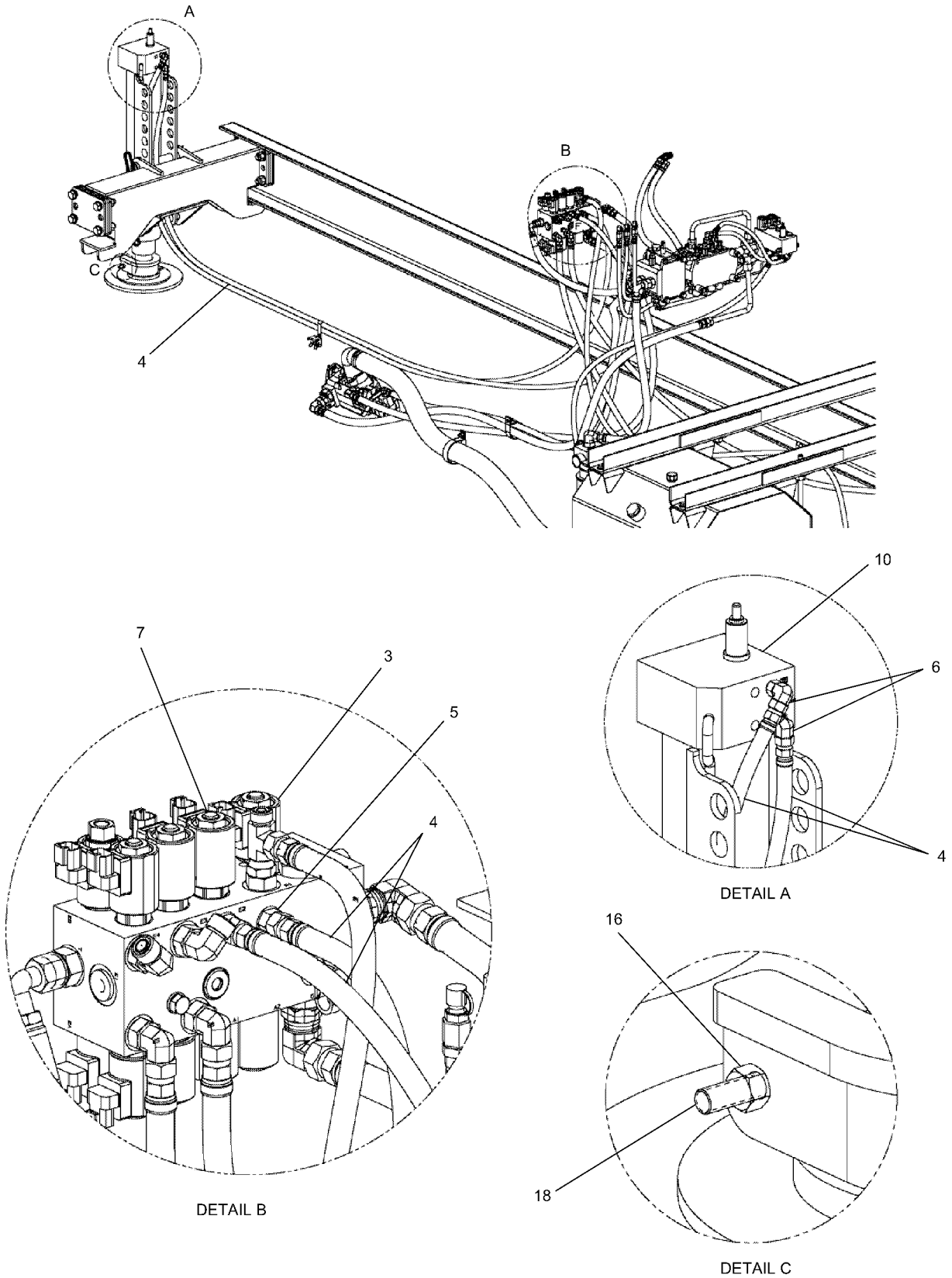
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



**SEE PAGE 51.7**

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



**FRONT BUMPER OUTRIGGER  
INSTALLATION (34" FRAME)**

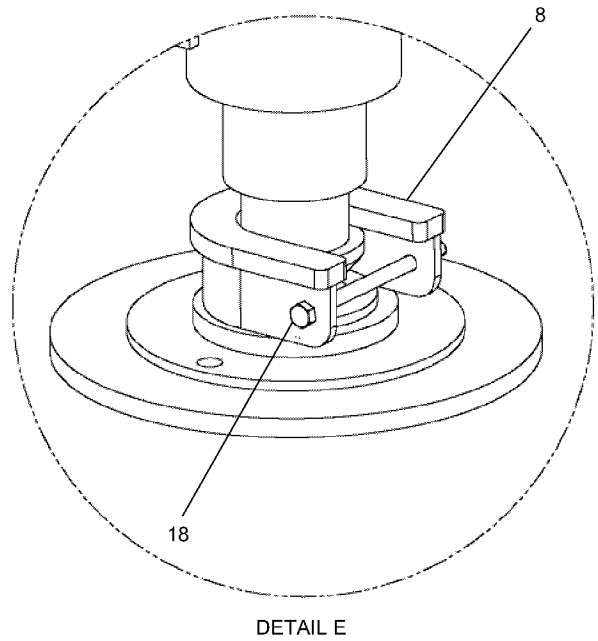
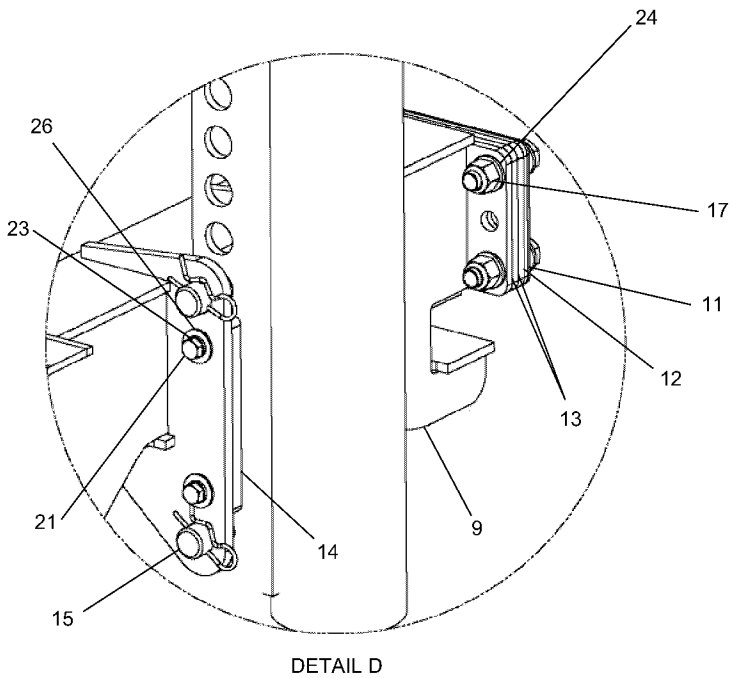
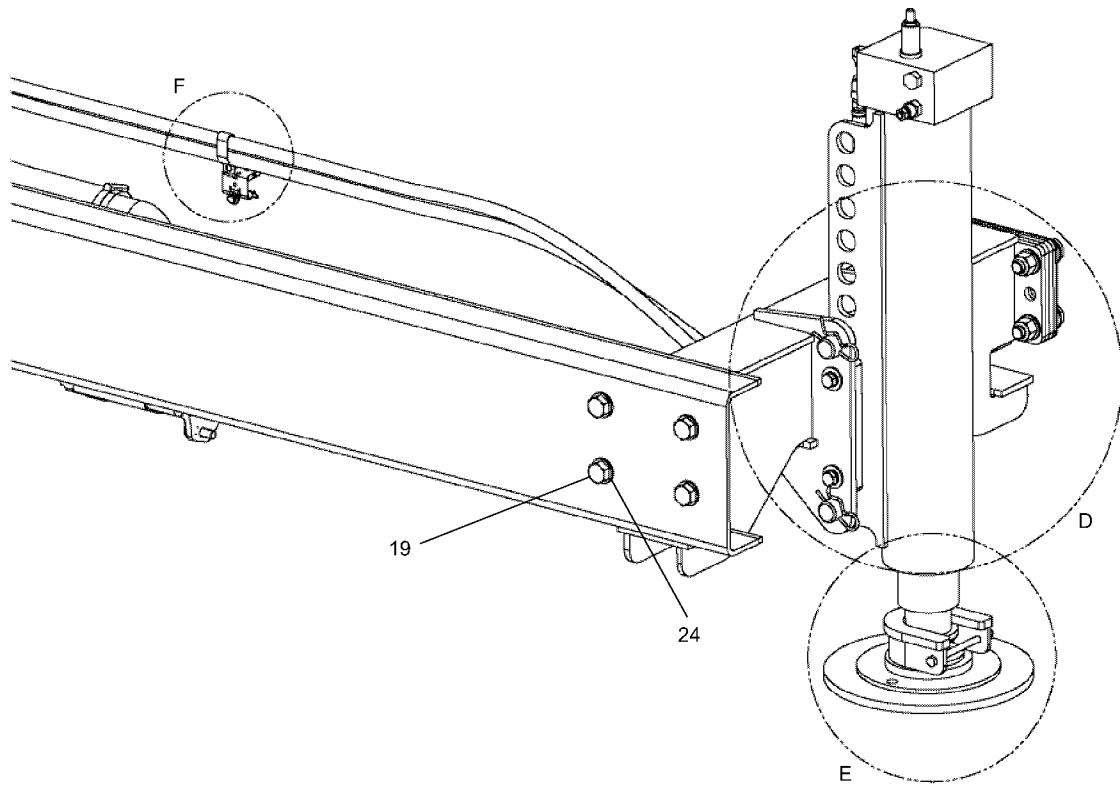
DATE: Revised 07-2009

MODEL: BT3870

PAGE 51.5

GROUP

**51**



**SEE PAGE 51.7**

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



**FRONT BUMPER OUTRIGGER  
INSTALLATION (34" FRAME)**

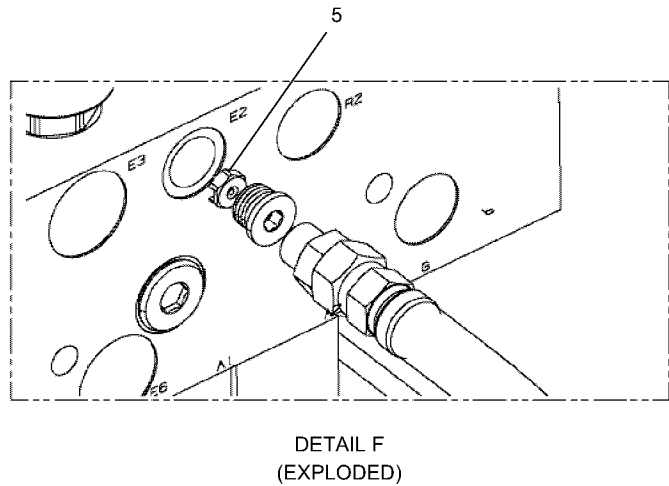
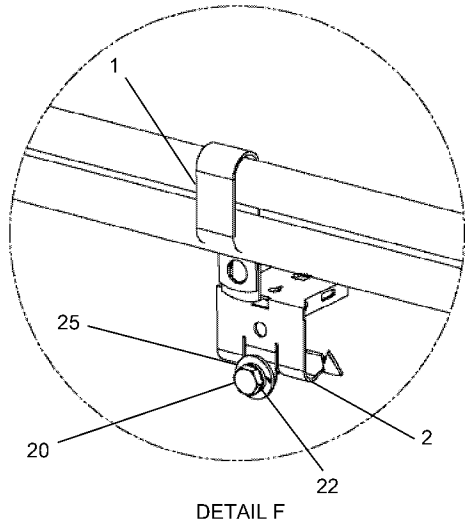
DATE: Revised 07-2009

MODEL: BT3870

PAGE 51.6

GROUP

**51**



**SEE PAGE 51.5 & 51.6**

REF	PART NO.	DESCRIPTION	QTY
	765-00059-1	<i>Install, 34.00 Front Jack (Items 1-26)</i>	
1	201-00193	Clamp Block, DBLE.....	1
2	209-00879	Frame Clip Caddy, DBLE.....	1
3	500-01838-01	HYD INSTL, Subframe-Mainframe.....	REF
4	502-21018	Hose, Front Outrigger.....	2
5	513-40014	STR CONN M#6 OFS X M#6 ORB.....	2
6	514-54004	Elbow 90DEG, -6.....	2
7	559-00263	Valve, Outrigger.....	1
8	717F0362	Pad, FRT Jack.....	1
9	760-00462	FRT BMPR MTG BRKT.....	1
10	760-00463	FBO Cylinder Weldment.....	1
11	789-06043	Plate 7.75 X 6.00 X 0.125.....	2
12	789-06044	Plate 7.75 X 6.00 X 0.250.....	2
13	789-06045	Plate 7.75 X 6.00 X 0.375.....	4
14	789-06084	FRT BMPR MTG BRKT Spacer.....	2
15	870-30234	Front Jack Pin.....	2
16	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5.....	1
17	NYL-750C000-Y8	Nut, HEX NYL - INS 0.75-10, ST YZ G8.....	8
18	S01-375CE50-25	Screw, HHCS 0.375-16X5.50,ST Z GR5.....	1
19	S01-750CC25-Y8	Screw, HHCS 0.75-10X3.25,ST YZ GR8.....	8
20	SHF-250C750-25	Screw, HHCS FT 0.25-20X0.75,ST Z G5.....	1
21	SHF-500CA25-25	Screw, HHCS FT 0.50-13X1.25, ST Z G5.....	4
22	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z.....	1
23	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z.....	4
24	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	16
25	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z.....	1
26	WBR-50RXA37-20	Washer, FL TYPB-REG 0.50, ST Z.....	4

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



**FRONT BUMPER OUTRIGGER  
INSTALLATION (34" FRAME)**

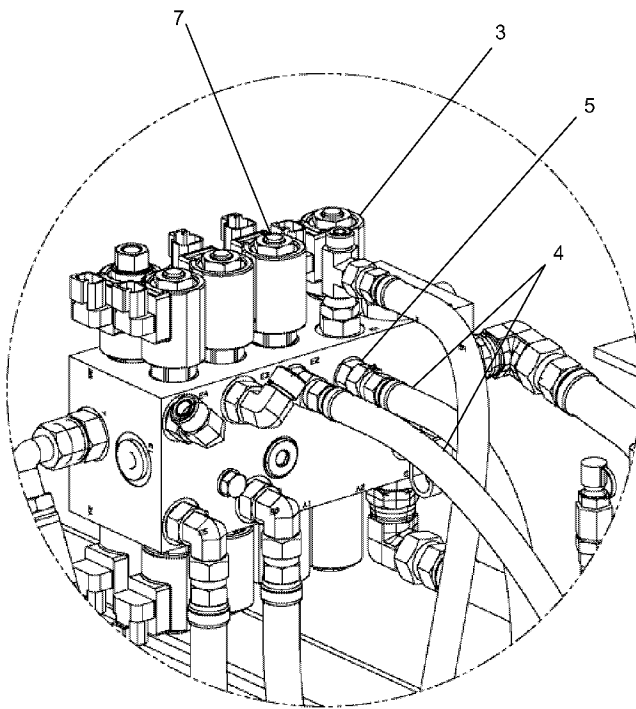
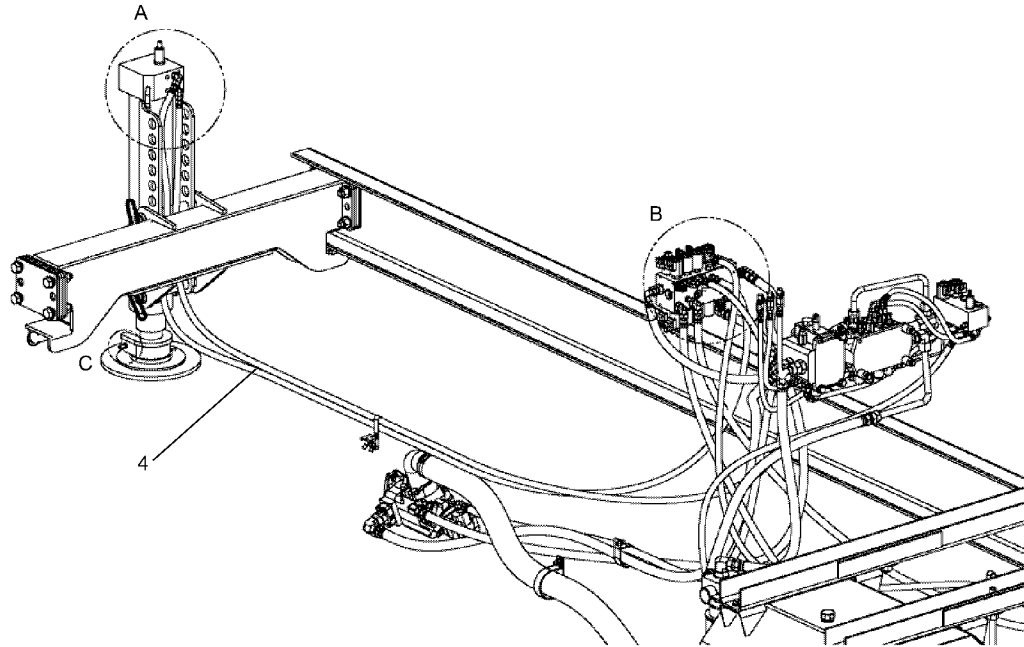
DATE: Revised 07-2009

MODEL: BT3870

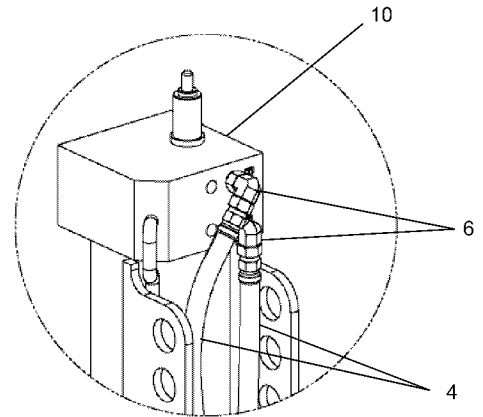
PAGE 51.7

GROUP

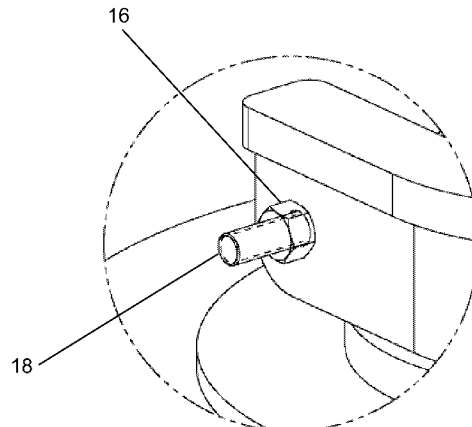
**51**



DETAIL B



DETAIL A



DETAIL C

**SEE PAGE 51.10**

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



**FRONT BUMPER OUTRIGGER  
INSTALLATION (46" FRAME)**

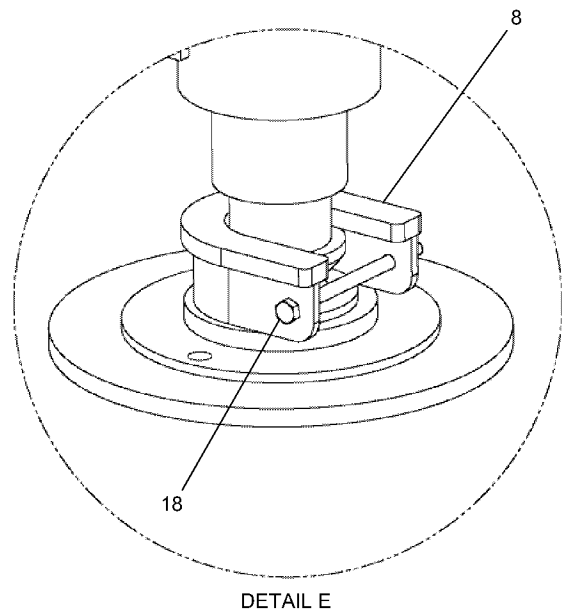
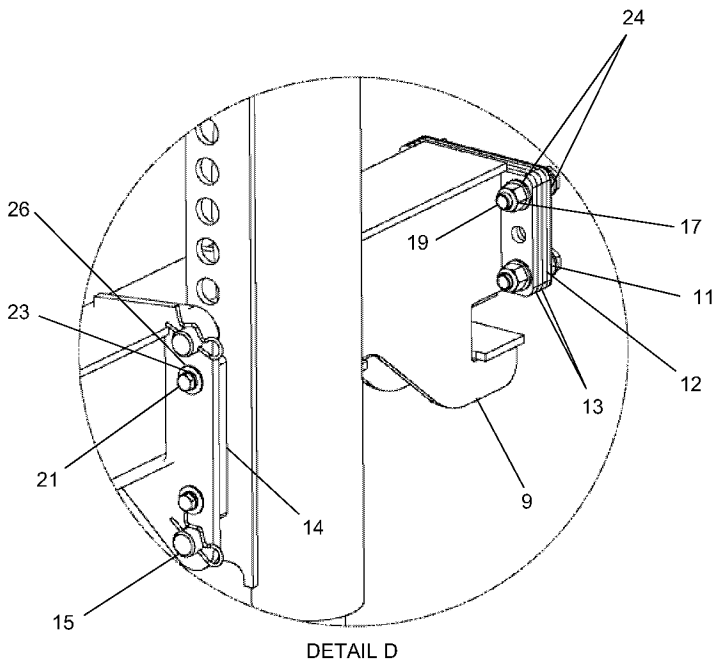
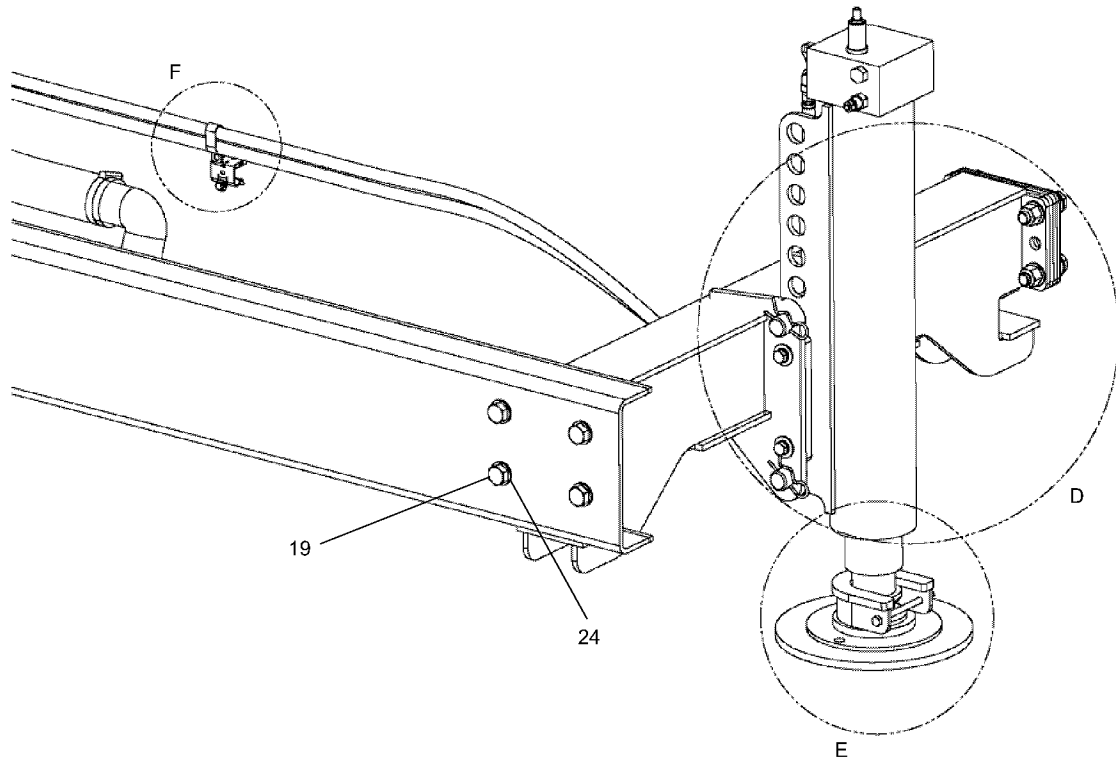
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



**SEE PAGE 51.10**

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



**FRONT BUMPER OUTRIGGER  
INSTALLATION (46" FRAME)**

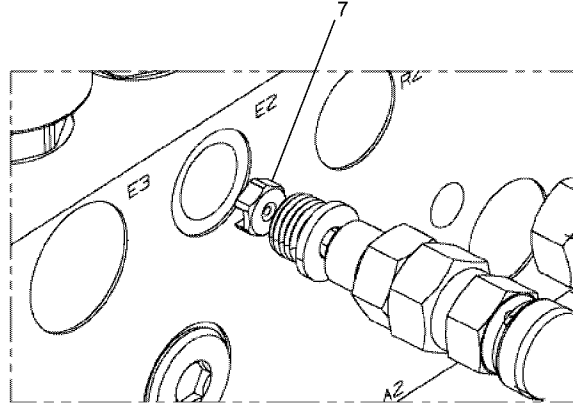
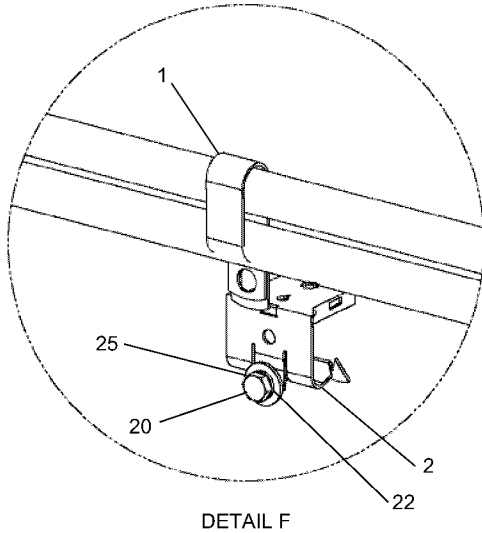
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



DETAIL F  
(EXPLODED)

**SEE PAGE 51.8 & 51.9**

REF	PART NO.	DESCRIPTION	QTY
	765-00059-2	Install, 46.00 Front Jack (Items 1-26)	
1	201-00193	Clamp Block, DBLE.....	1
2	209-00879	Frame Clip Caddy, DBLE.....	1
3	500-01838-01	HYD INSTL, Subframe-Mainframe.....	REF
4	502-21018	Hose, Front Outrigger.....	2
5	513-40014	STR CONN M#6 OFS X M#6 ORB.....	2
6	514-54004	Elbow 90DEG, -6.....	2
7	559-00263	Valve, Outrigger.....	1
8	717F0362	Pad, FRT Jack.....	1
9	760-00460	FRT BMPR MTG BRKT.....	1
10	760-00463	FBO Cylinder Weldment.....	1
11	789-06043	Plate 7.75 X 6.00 X 0.125.....	2
12	789-06044	Plate 7.75 X 6.00 X 0.250.....	2
13	789-06045	Plate 7.75 X 6.00 X 0.375.....	4
14	789-06084	FRT BMPR MTG BRKT Spacer.....	2
15	870-30234	Front Jack Pin.....	2
16	N04-375C000-25	Nut, HEX 0.375-16, ST Z GR5.....	1
17	NYL-750C000-Y8	Nut, HEX NYL - INS 0.75-10,ST YZ G8.....	8
18	S01-375CE50-25	Screw, HHCS 0.375-16X5.50,ST Z GR5.....	1
19	S01-750CC25-Y8	Screw, HHCS 0.75-10X3.25,ST YZ GR8.....	8
20	SHF-250C750-25	Screw,HHCS FT 0.25-20X0.75,ST Z G5.....	1
21	SHF-500CA25-25	Screw,HHCS FT 0.50-13X1.25,ST Z G5.....	4
22	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z.....	1
23	W07-500X000-20	Washer, LCK, MED SPLT 0.50, ST Z.....	4
24	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	16
25	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z.....	1
26	WBR-50RXA37-20	Washer, FL TYPB-REG 0.50, ST Z.....	4

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



**FRONT BUMPER OUTRIGGER  
INSTALLATION (46" FRAME)**

DATE: Revised 07-2009

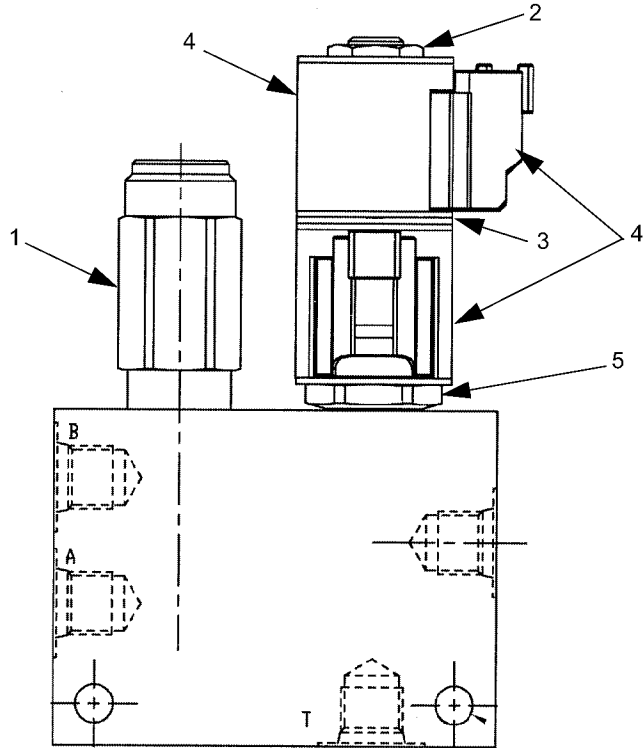
MODEL: BT3870

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GROUP

**51**





REF	PART NO.	DESCRIPTION	QTY
	551-10142	Solenoid, Front Bumper Outrigger (Items 1-5)	
1	394-00037	Relief Valve.....	1
2	394-00038	Nut.....	1
3	394-00039	Spacer .....	1
4	394-00040	Coil .....	2
5	394-00041	Cartridge.....	1

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



**FRONT BUMPER OUTRIGGER**  
Valve

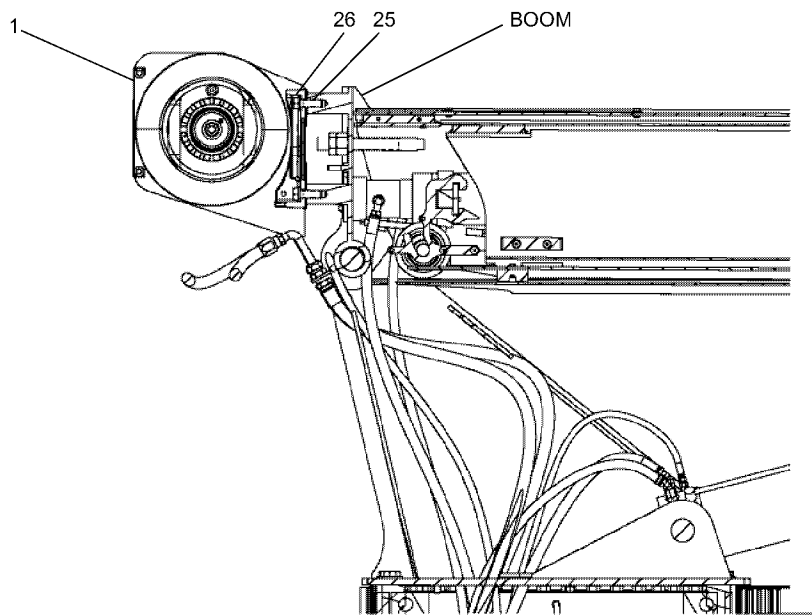
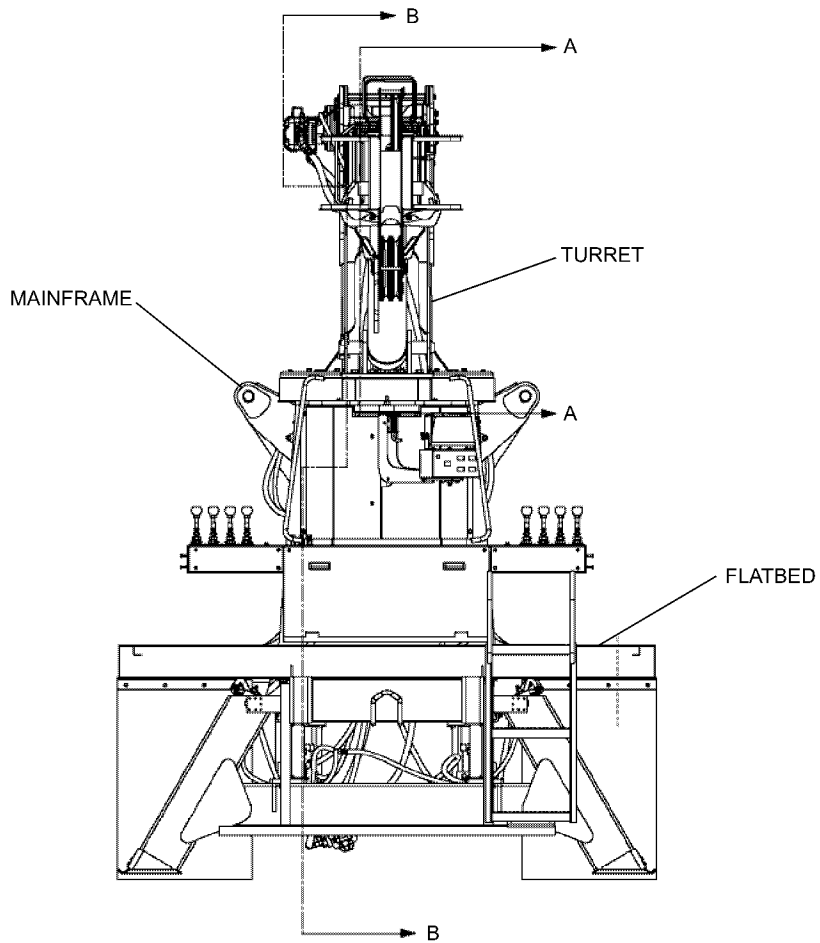
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



SECTION A - A

**SEE PAGE 51.20**

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

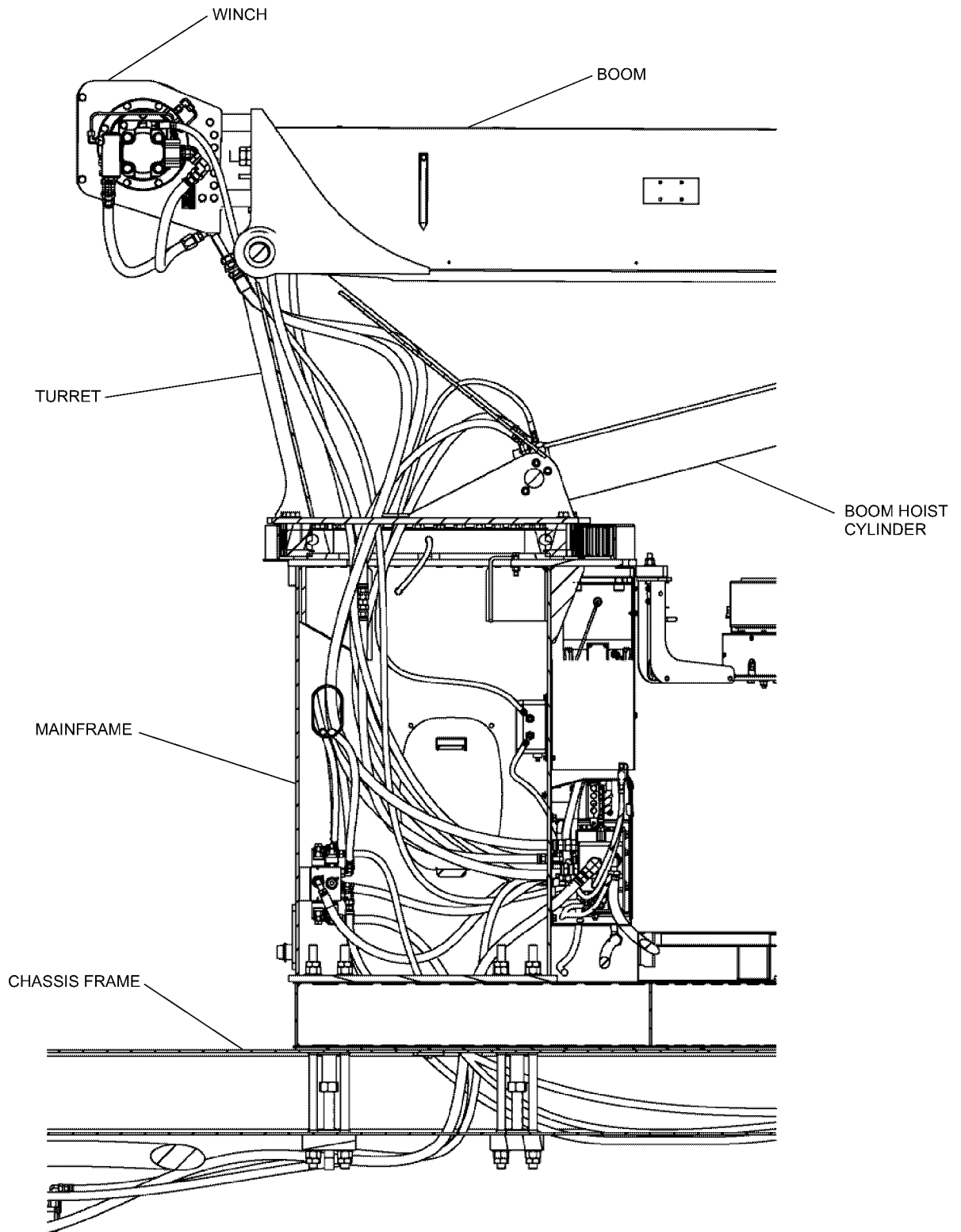
DATE: Revised 07-2009

MODEL: BT3870

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**51**



SECTION B - B

SEE PAGE 51.20

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

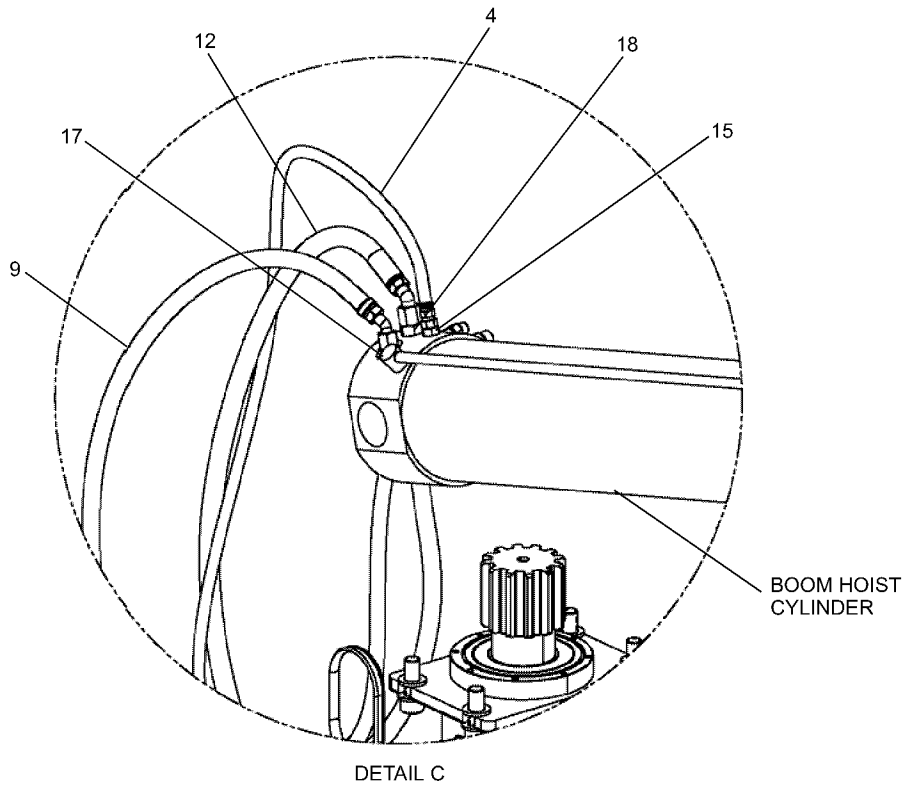
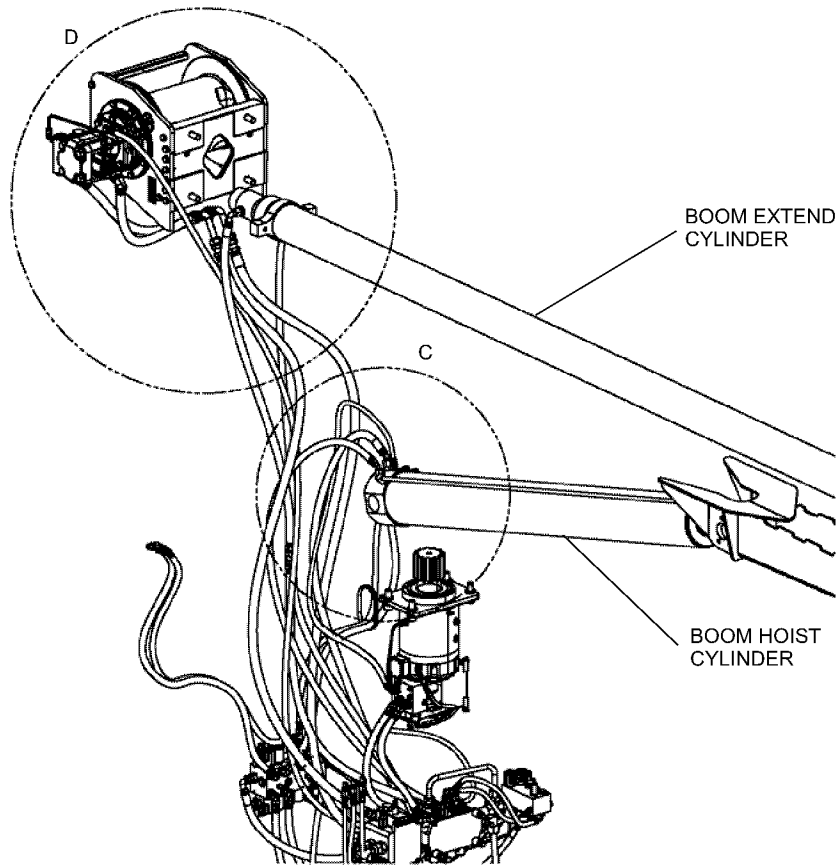
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



SEE PAGE 51.20

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

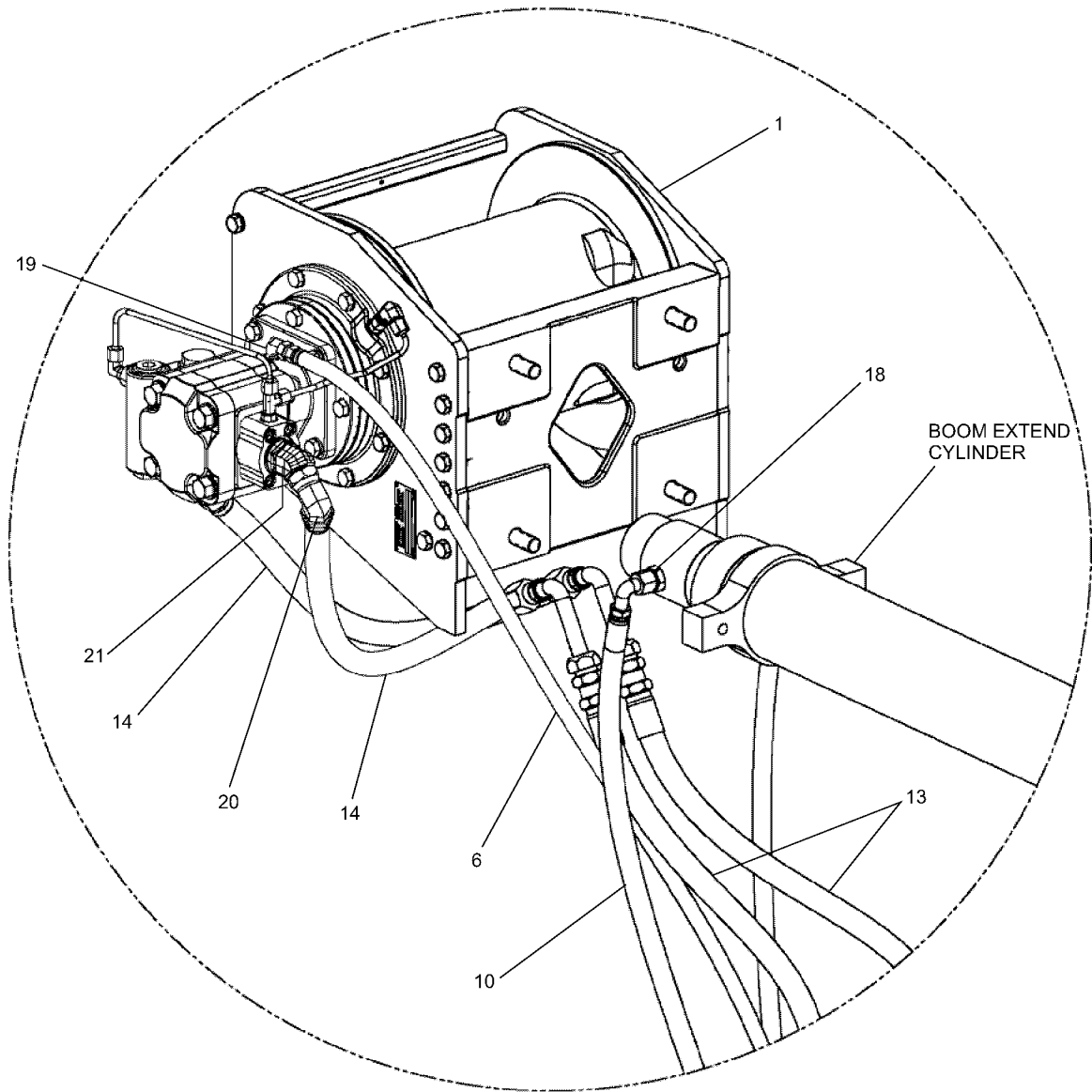
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



DETAIL D

SEE PAGE 51.20

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

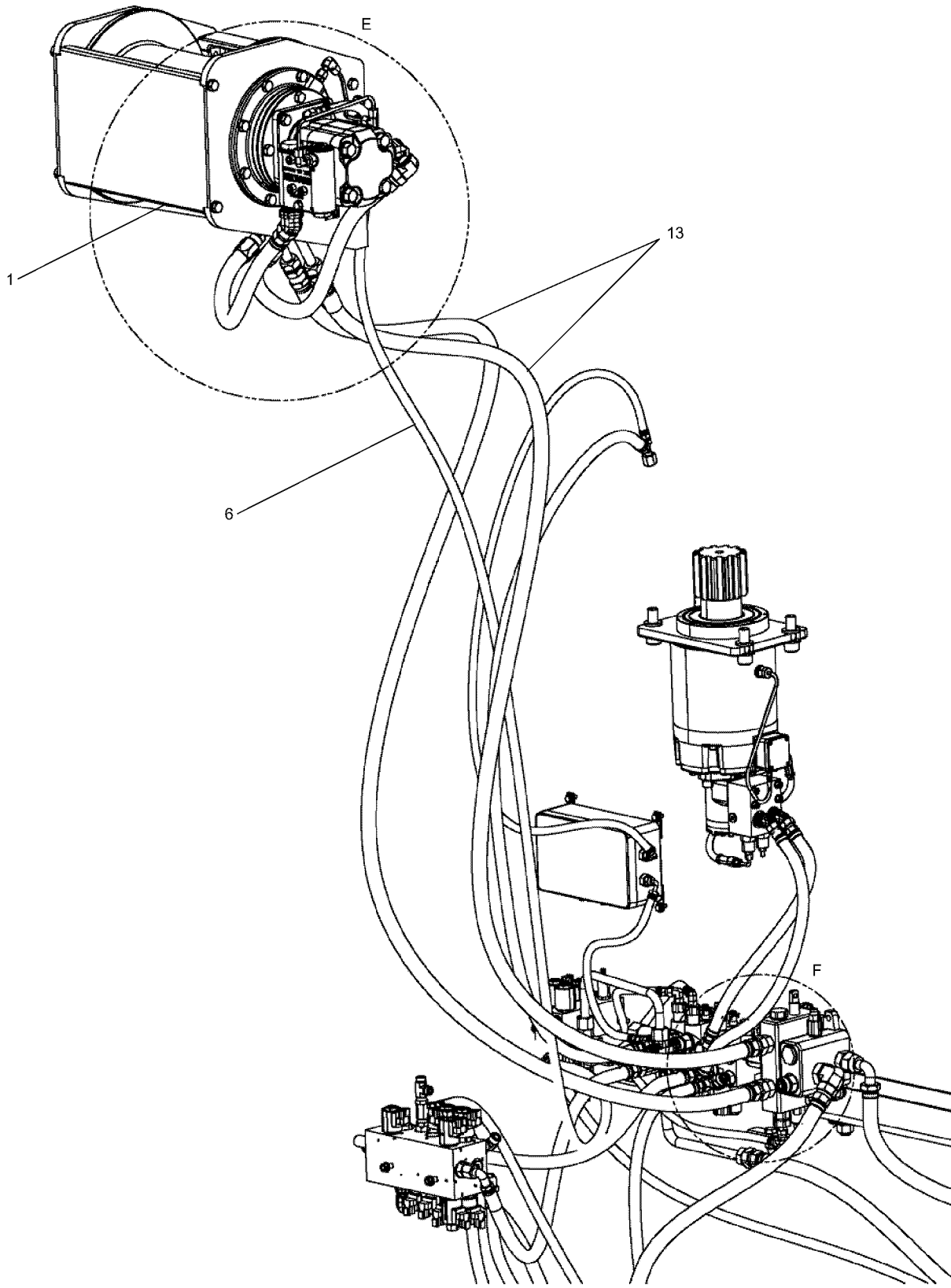
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



SEE PAGE 51.20

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

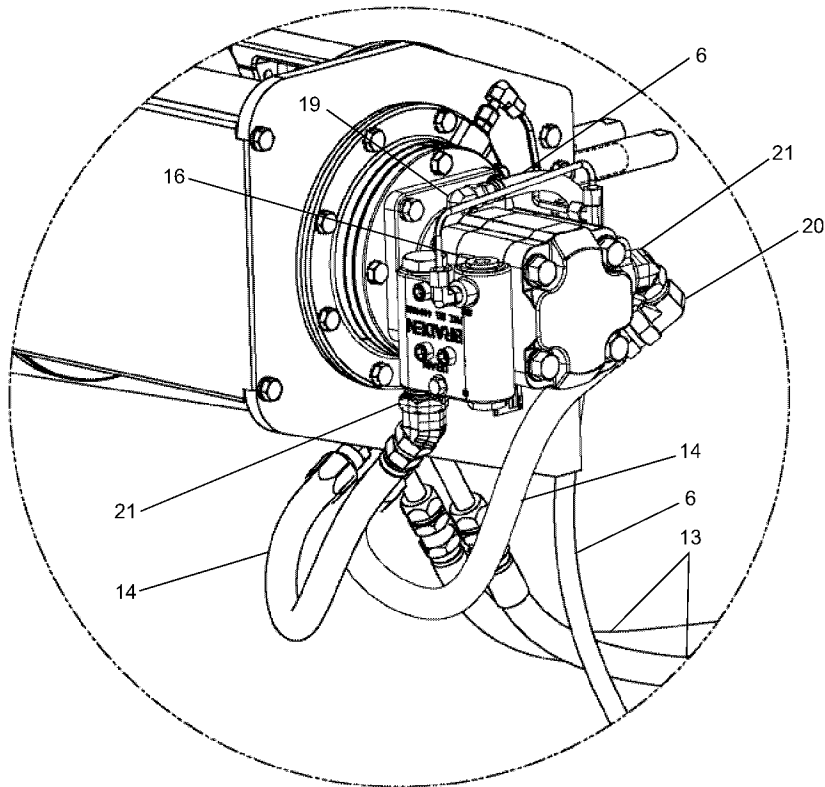
DATE: Revised 07-2009

MODEL: BT3870

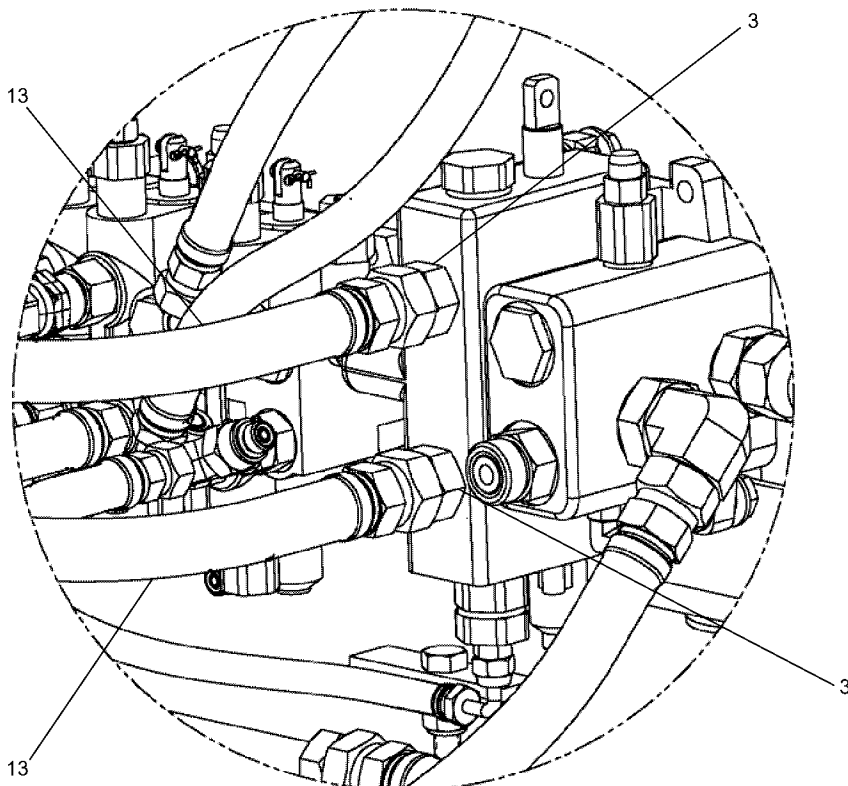
PAGE 51.16

GROUP

**51**



DETAIL E



DETAIL F

**SEE PAGE 51.20**

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

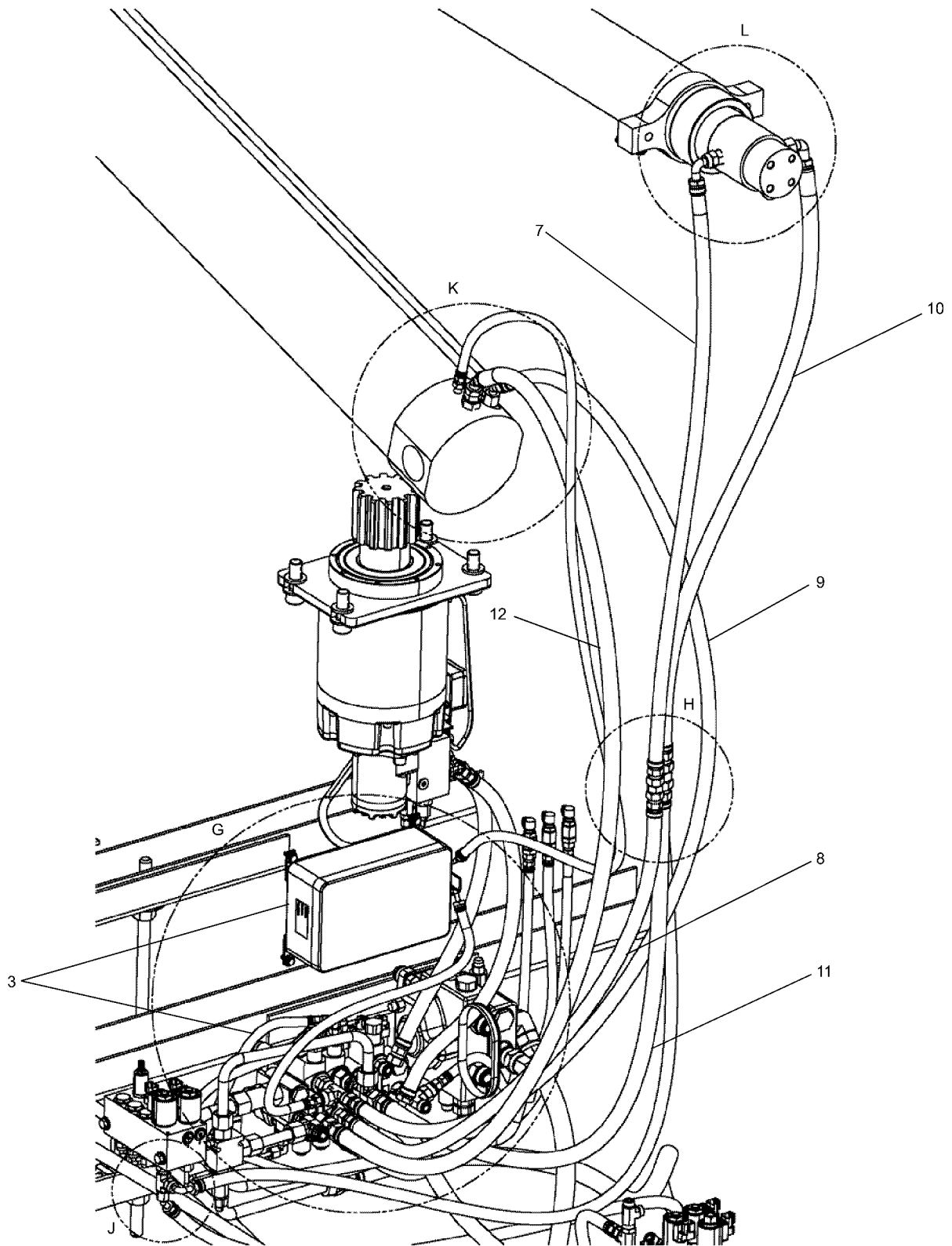
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



SEE PAGE 51.20

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

DATE: Revised 07-2009

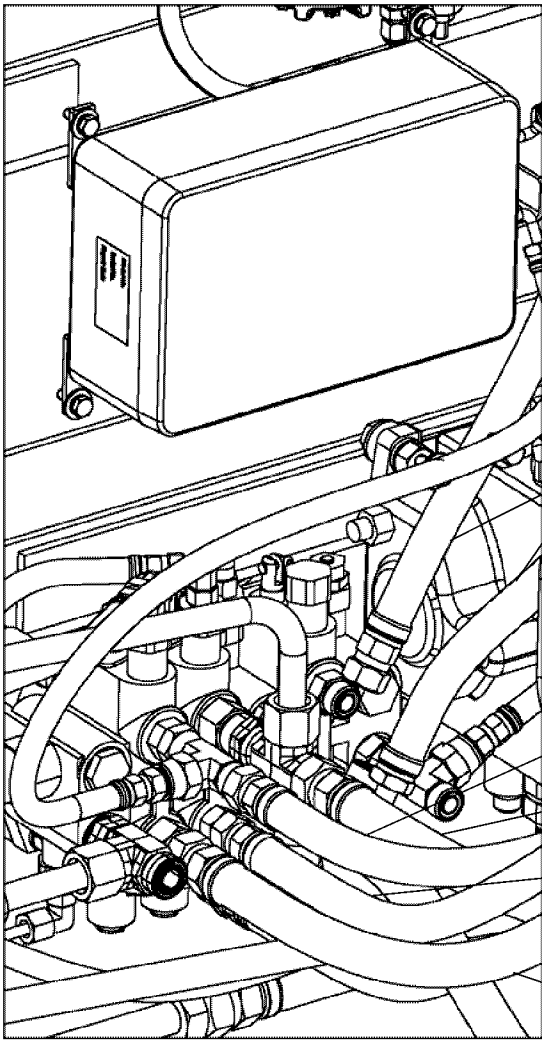
MODEL: BT3870

PAGE 51.18

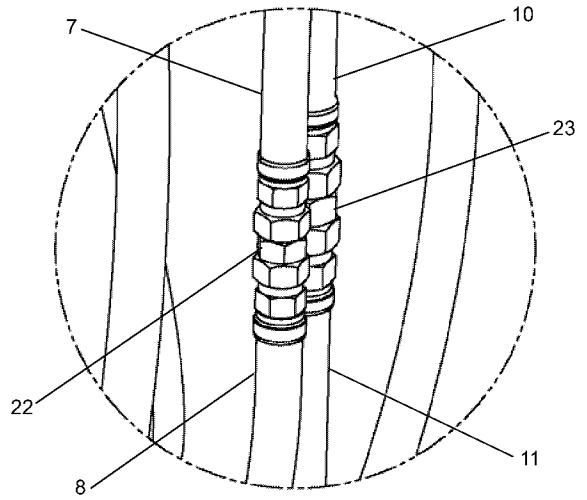
GROUP

**51**

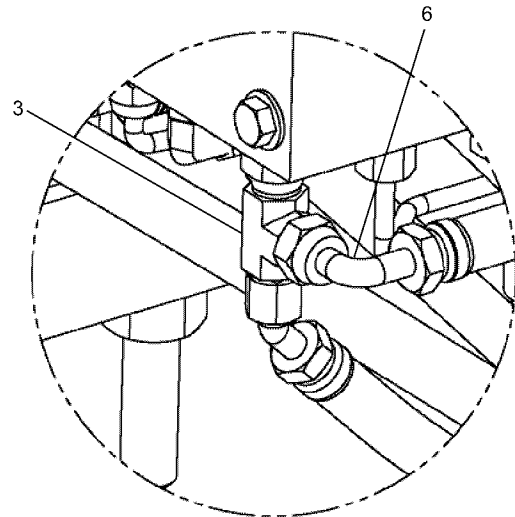




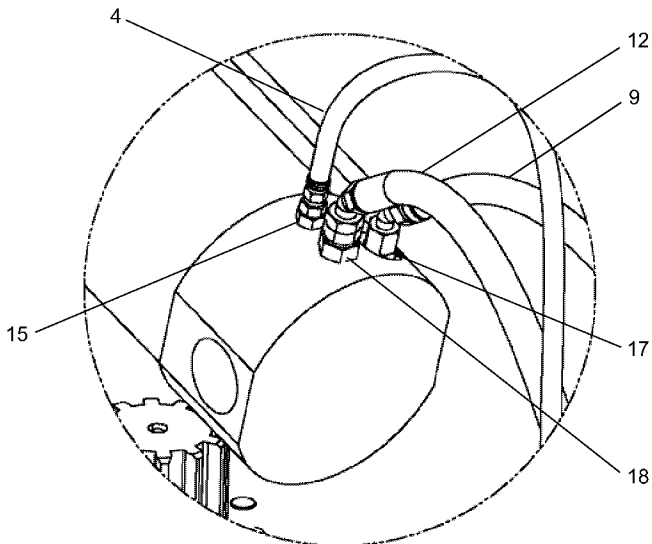
DETAIL G



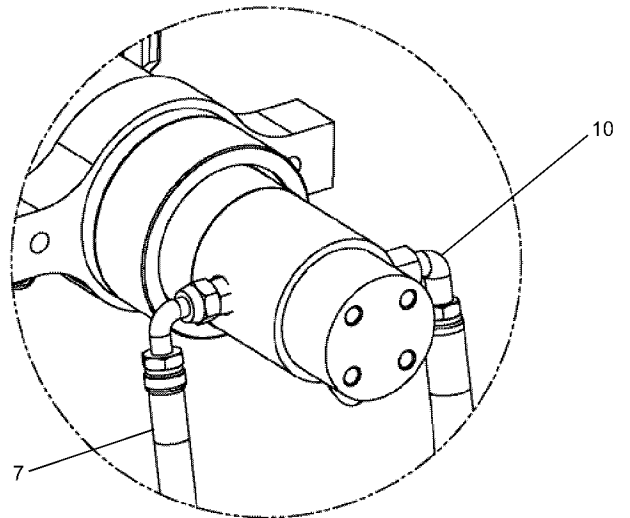
DETAIL H



DETAIL J



DETAIL K



DETAIL L

**SEE PAGE 51.20**

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**

**SEE PAGES 51.12, 51.13, 51.14, 51.15, 51.16, 51.17, 51.18 & 51.19**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-01	<i>Hydraulic Installation, BT 3870, NON CON - CF (Items 1-26)</i>	
1	293-00048	Winch, 12,000# .....	1
2	400-15086	Tie, Nylon CBL, 1.75 Dia .....	1
3	500-01839-01	Hydraulic Installation, Main Outrigger .....	1
4	502-11350	Hose, Hydraulic, RCI .....	1
5	502-11351	Hose, Hydraulic, RCI Topping Rod Base .....	1
6	502-21019	Hose, Winch Motor Drain .....	1
7	502-30783	Hose Assembly, Tele Retract - Upper .....	1
8	502-30784	Hose Assembly, Tele Retract - Lower .....	1
9	502-30787	Hose, Boom Topping Retract .....	1
10	502-35084	Hose Assembly, Tele Extend - Upper .....	1
11	502-35085	Hose Assembly, Tele Extend - Lower .....	1
12	502-35087	Hose, Boom Topping Extend .....	1
13	502-41014	Hose Assembly, Winch .....	2
14	502-41015	Hose Assembly, Winch, Short .....	2
15	513-20019	CONN M#4 OFS X M#6 ORB .....	1
16	513-20027	STR Adapter, FF-2404-6-4 .....	1
17	513-50023	STR CONN M#8 OFS X M#8 ORB .....	2
18	513-60008	CONN M#10 OFS X M#10 ORB .....	2
19	514-64002	Elbow 90 DEG, Swivel, -6 .....	1
20	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
21	515-07003	Fitting, 45 DEG, FGFF-6802-12-16 .....	2
22	519-50024	Union Fitting, STR M08 OFS .....	1
23	519-60017	Union Fitting, STR M10 OFS .....	1
24	695-10020	Structural Assembly, BT3870 .....	1
25	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8 .....	4
26	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ .....	4

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



**HYDRAULIC INSTALLATION  
NON CON ROT - CF**

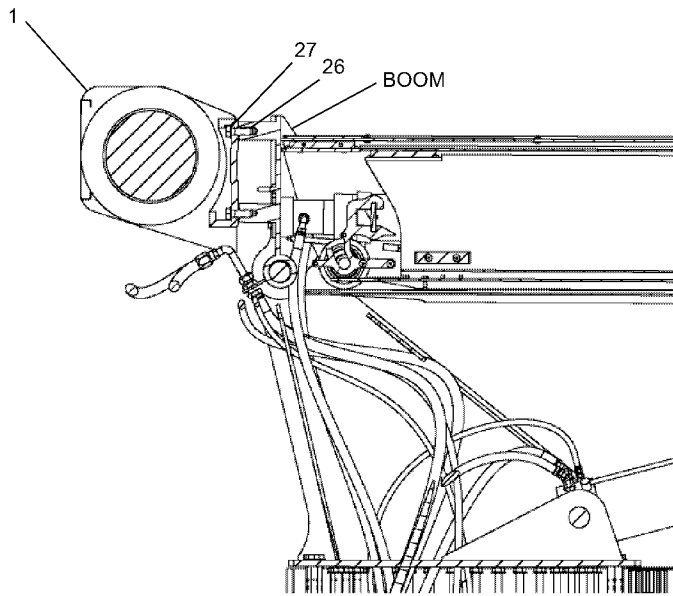
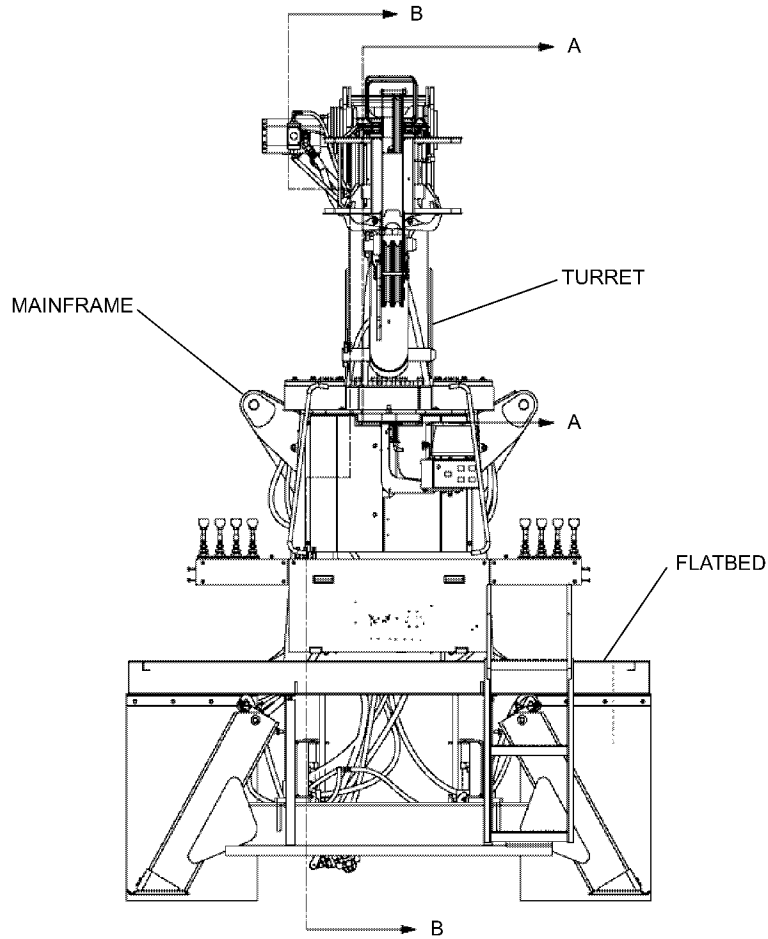
DATE: Revised 07-2009

MODEL: BT3870

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**GROUP**

**51**



SECTION A - A

**SEE PAGE 51.29**

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

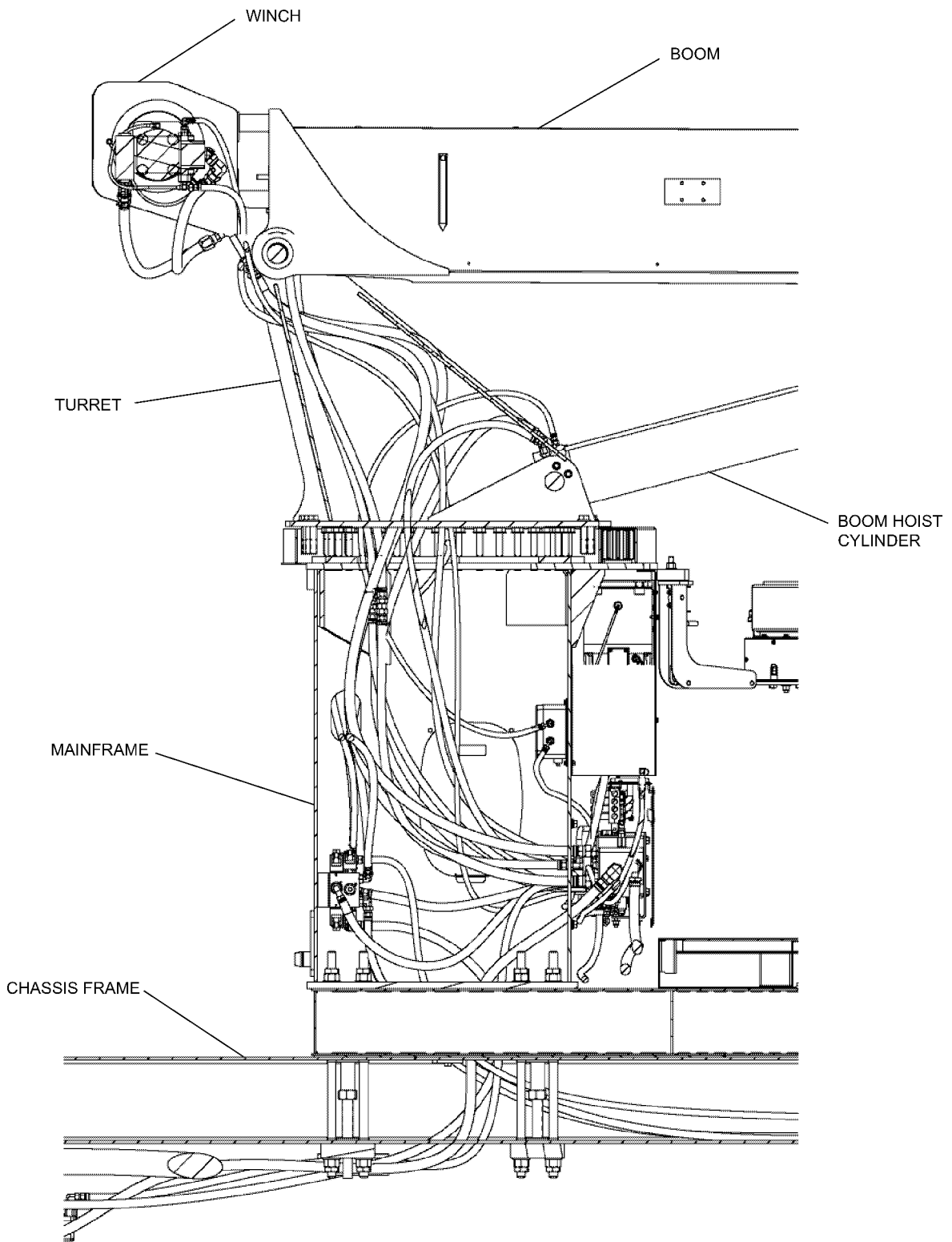
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



SECTION B - B

SEE PAGE 51.29

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

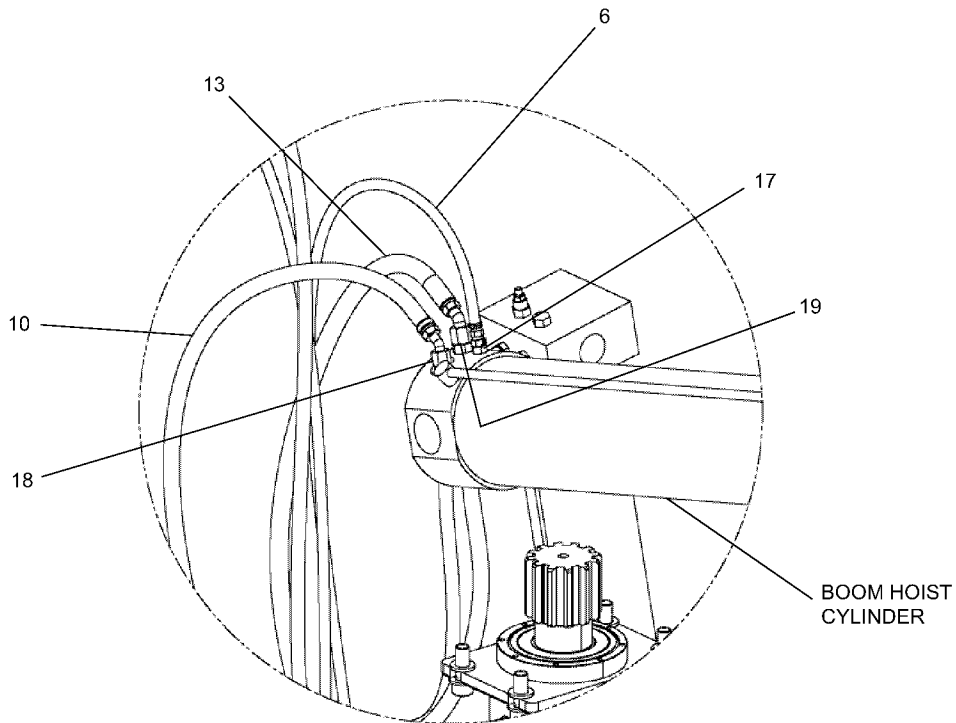
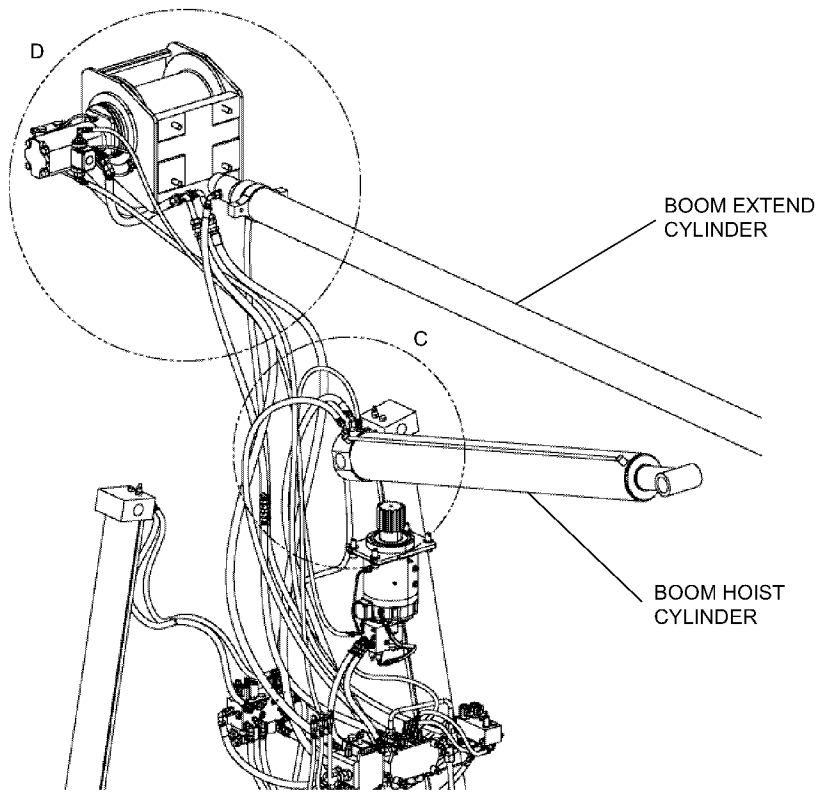
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



DETAIL C

SEE PAGE 51.29

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



HYDRAULIC INSTALLATION  
NON CON ROT - MS

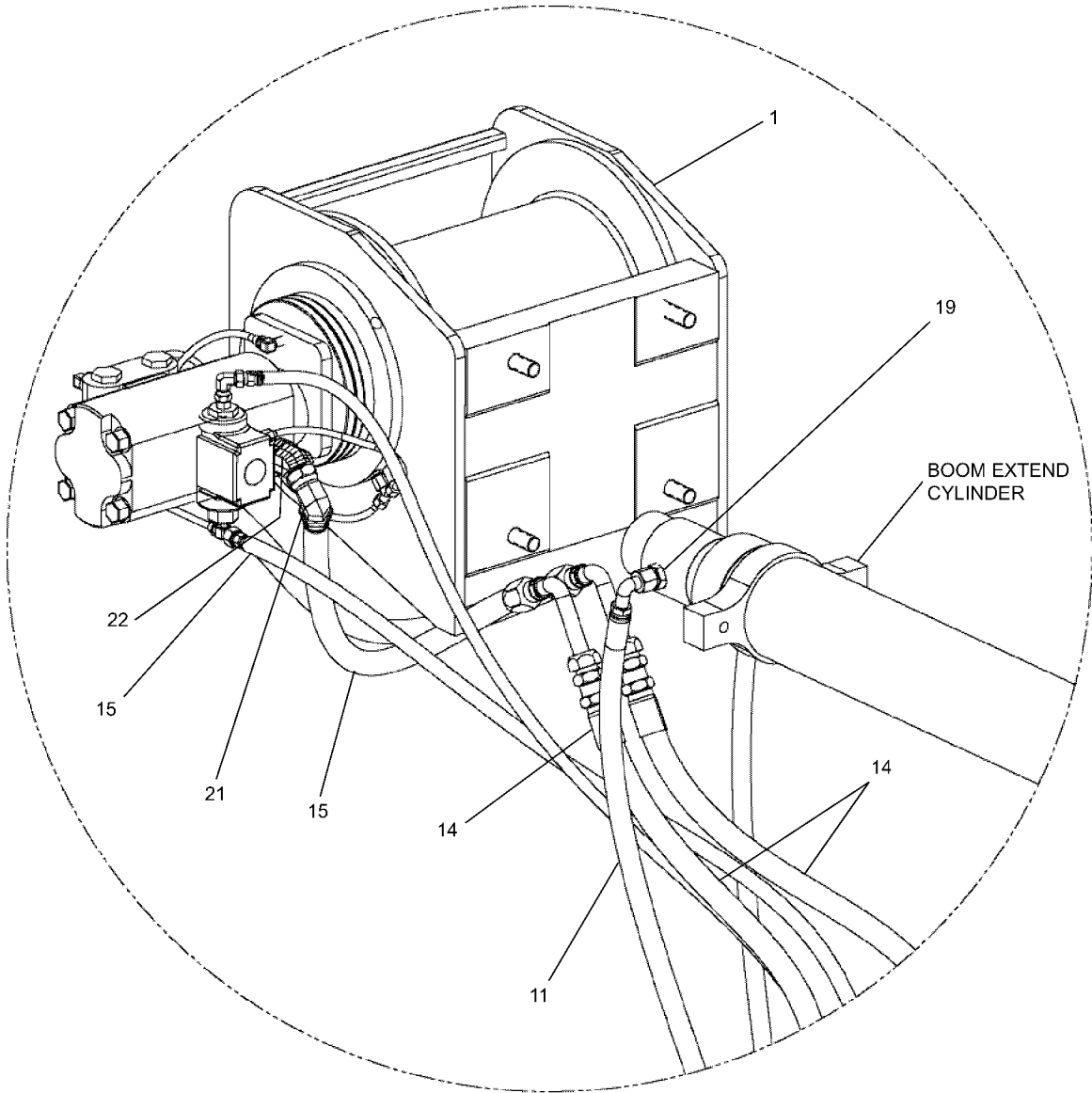
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

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DETAIL D

SEE PAGE 51.29

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

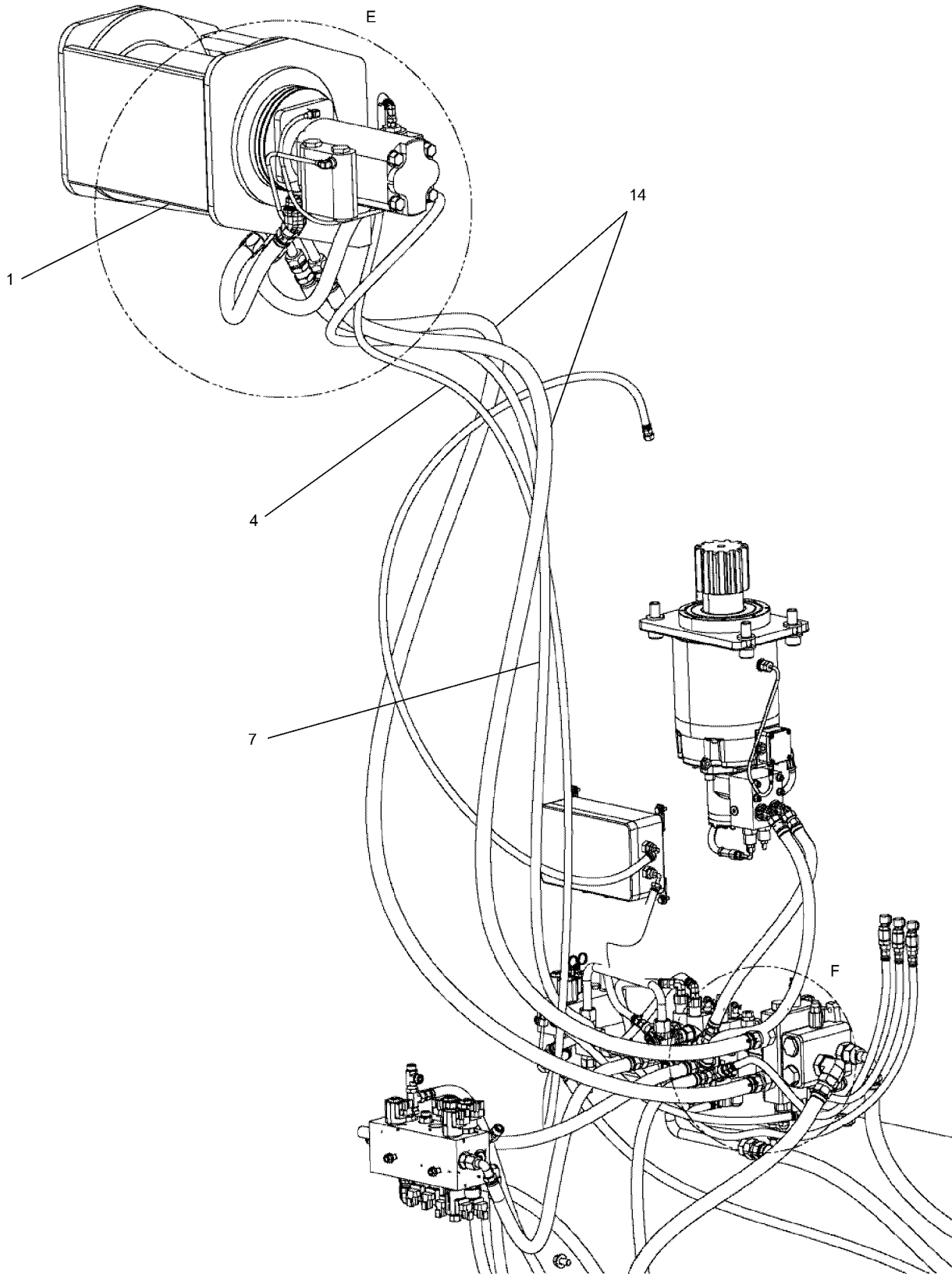
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



**SEE PAGE 51.29**

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

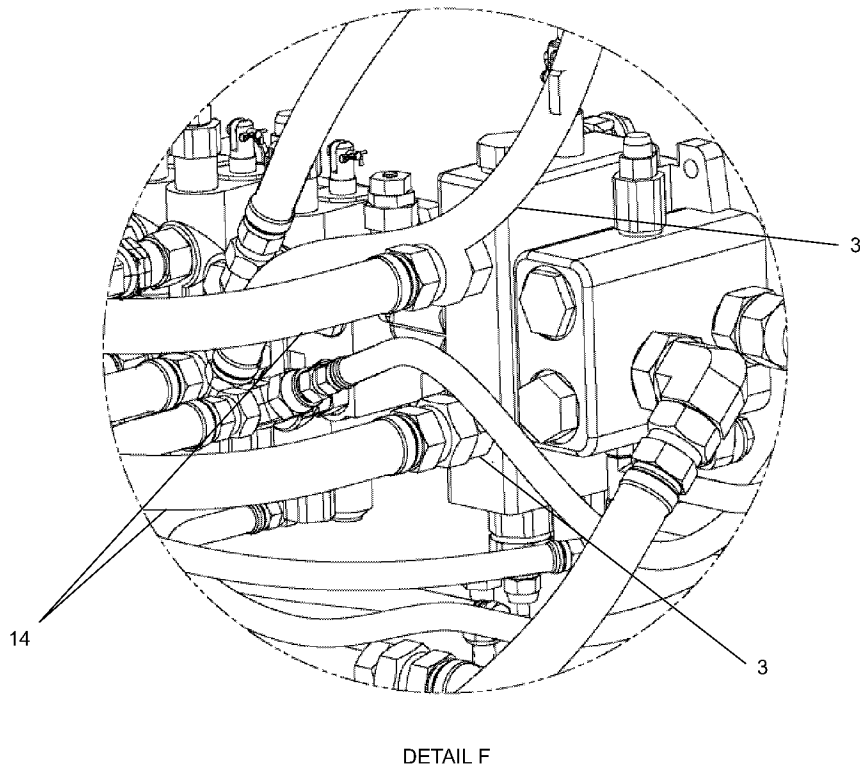
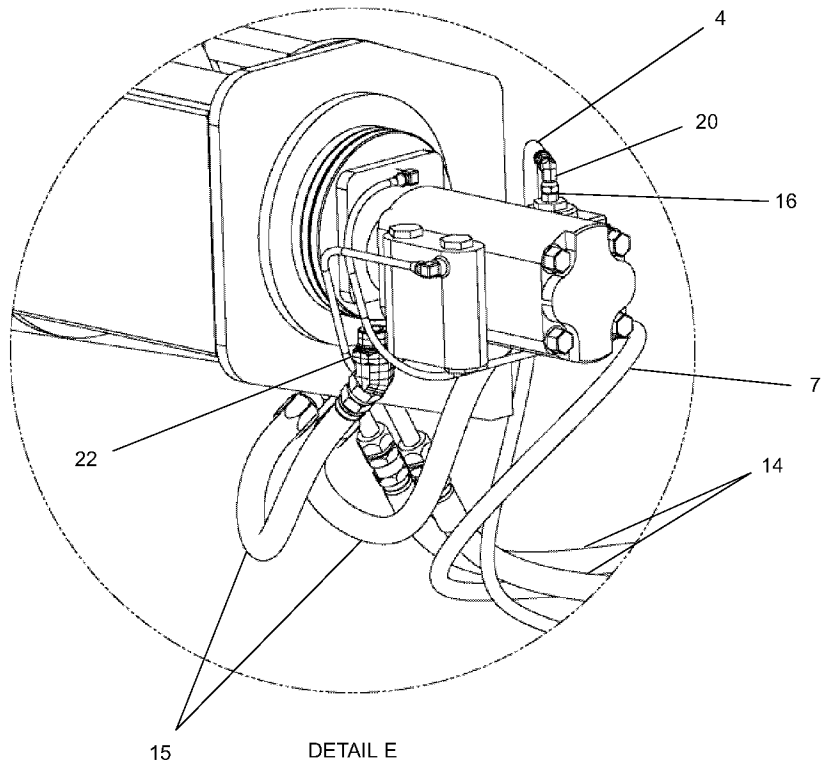
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



**SEE PAGE 51.29**

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

DATE: Revised 07-2009

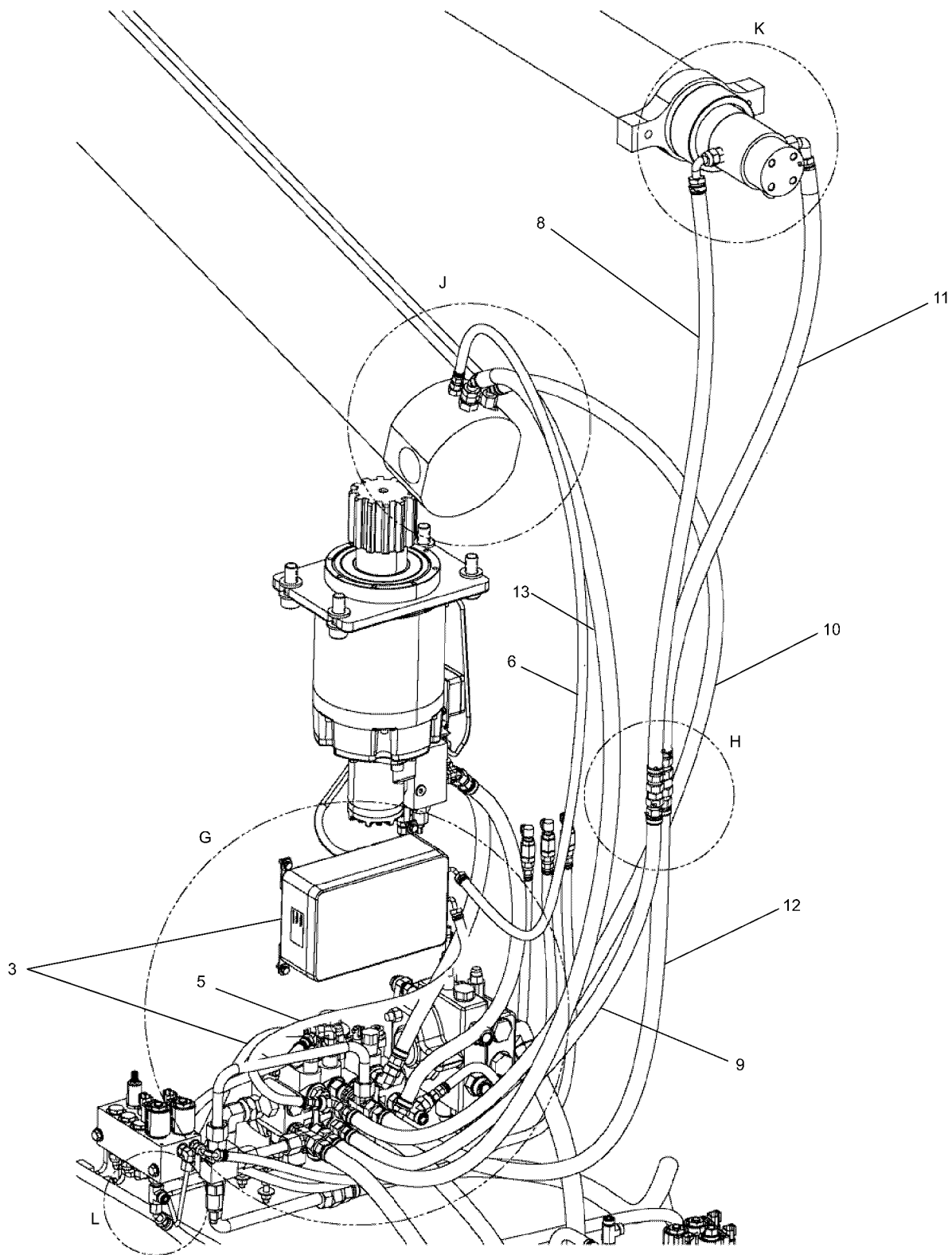
MODEL: BT3870

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GROUP

**51**





SEE PAGE 51.29

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

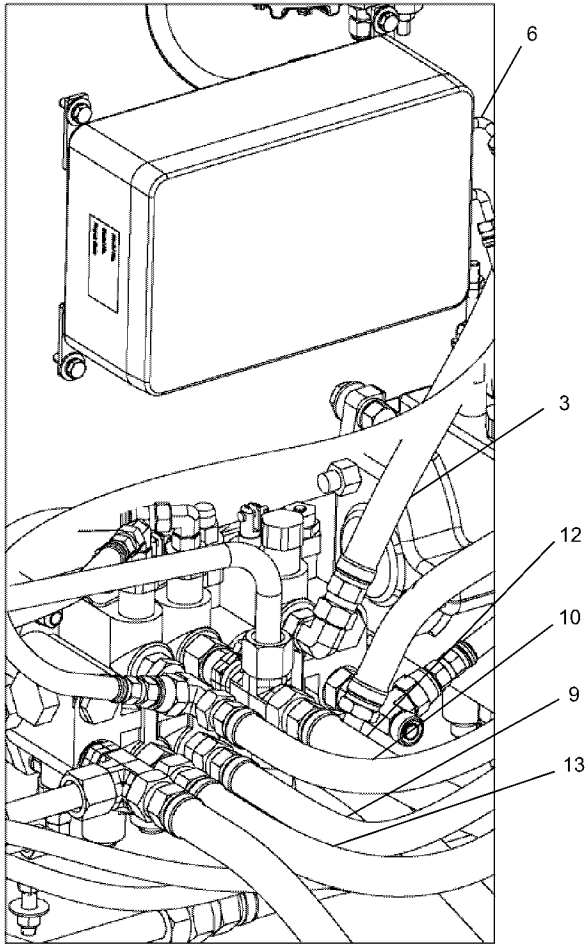
DATE: Revised 07-2009

MODEL: BT3870

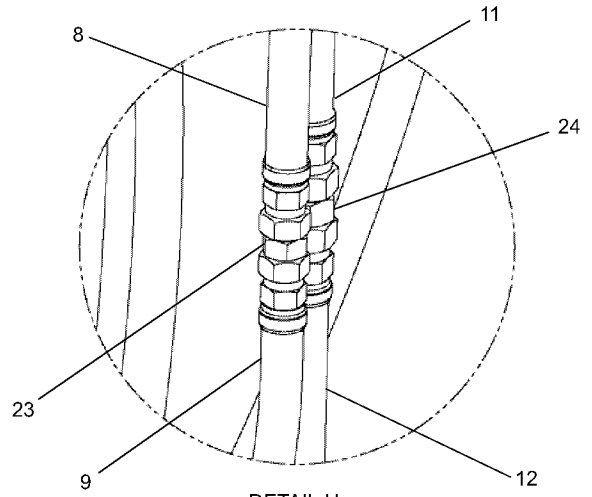
PAGE 51.27

GROUP

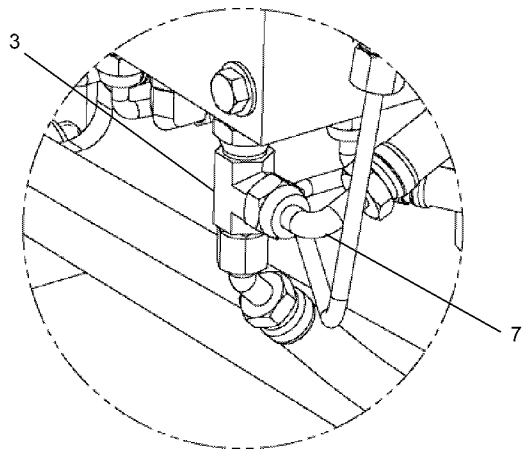
**51**



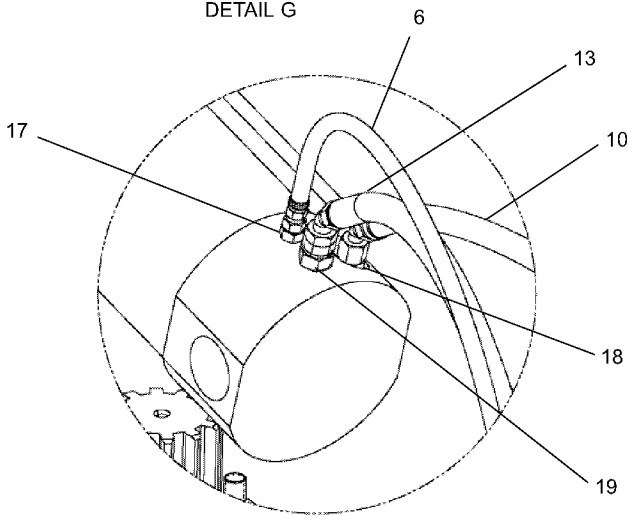
DETAIL G



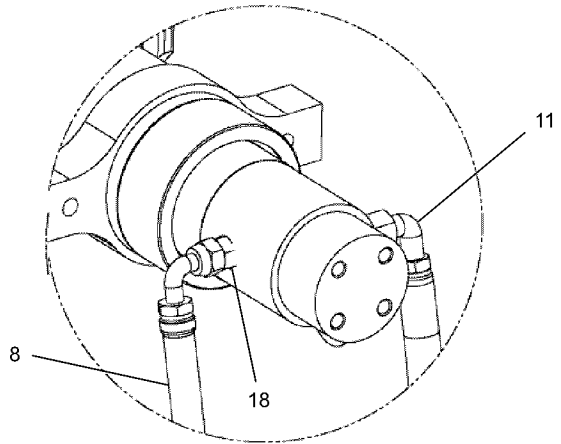
DETAIL H



DETAIL L



DETAIL J



DETAIL K

**SEE PAGE 51.29**

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**

**SEE PAGES 51.21, 51.22, 51.23, 51.24, 51.25, 51.26, 51.27 & 51.28**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-02	<i>Hydraulic Installation, BT 3870, NON CON - MS (Items 1-27)</i>	
1	293-00044	Winch Assembly, 12K 2 Speed .....	1
2	400-15086	Tie, Nylon CBL, 1.75 DIA.....	1
3	500-01839-02	Hydraulic Installation, Main Outrigger.....	1
4	502-11346	502-11346-Hose Assembly, 2SP Pilot .....	1
5	502-11350	Hose, Hydraulic, RCI .....	1
6	502-11351	Hose, Hydraulic, RCI Topping Rod Base .....	1
7	502-21026	502-21026-Winch Drain, MS, NC .....	1
8	502-30783	Hose Assembly, Tele Retract - Upper.....	1
9	502-30784	Hose Assembly, Tele Retract - Lower.....	1
10	502-30787	Hose, Boom Topping Retract.....	1
11	502-35084	Hose Assembly, Tele Extend - Upper .....	1
12	502-35085	Hose Assembly, Tele Extend - Lower .....	1
13	502-35087	Hose, Boom Topping Extend .....	1
14	502-41014	Hose Assembly, Winch .....	2
15	502-41015	Hose Assembly, Winch, Short .....	2
16	513-20017	STR CONN M#4 OFS X M#4 ORB .....	1
17	513-20019	CONN M#4 OFS X M#6 ORB .....	1
18	513-50023	STR CONN M#8 OFS X M#8 ORB .....	2
19	513-60008	CONN M#10 OFS X M#10 ORB .....	2
20	514-62002	Elbow 90 M0.25OFS X F0.25OFS SW.....	1
21	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
22	515-07003	Fitting, 45 DEG, FGFF-6802-12-16 .....	2
23	519-50024	Union Fitting, STR M08 OFS .....	1
24	519-60017	Union Fitting, STR M10 OFS .....	1
25	695-10020	Structural Assembly, BT3870 .....	REF
26	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8 .....	4
27	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ .....	4

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



**HYDRAULIC INSTALLATION  
NON CON ROT - MS**

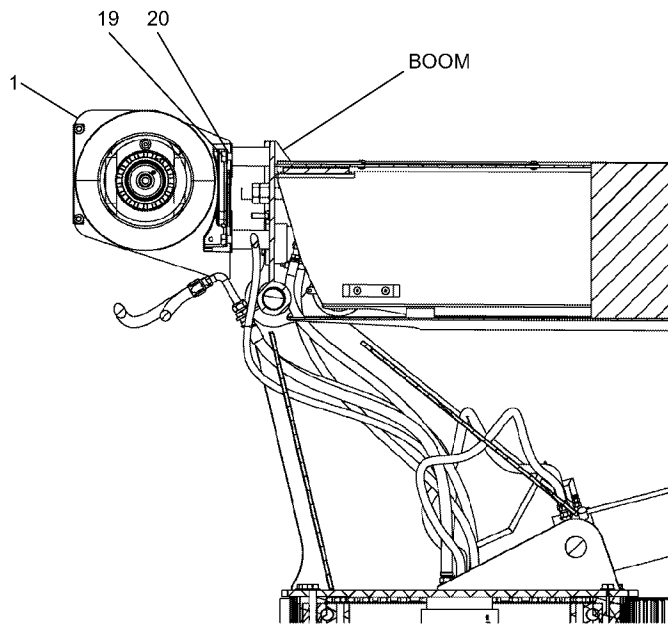
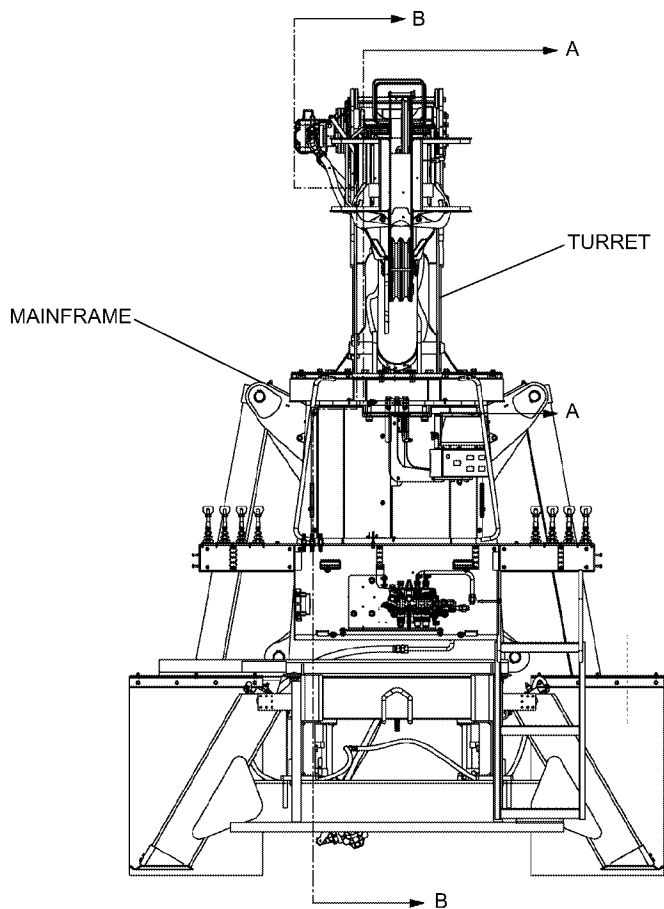
DATE: Revised 07-2009

MODEL: BT3870

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**GROUP**

**51**



SECTION A - A

**SEE PAGE 51.38**

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

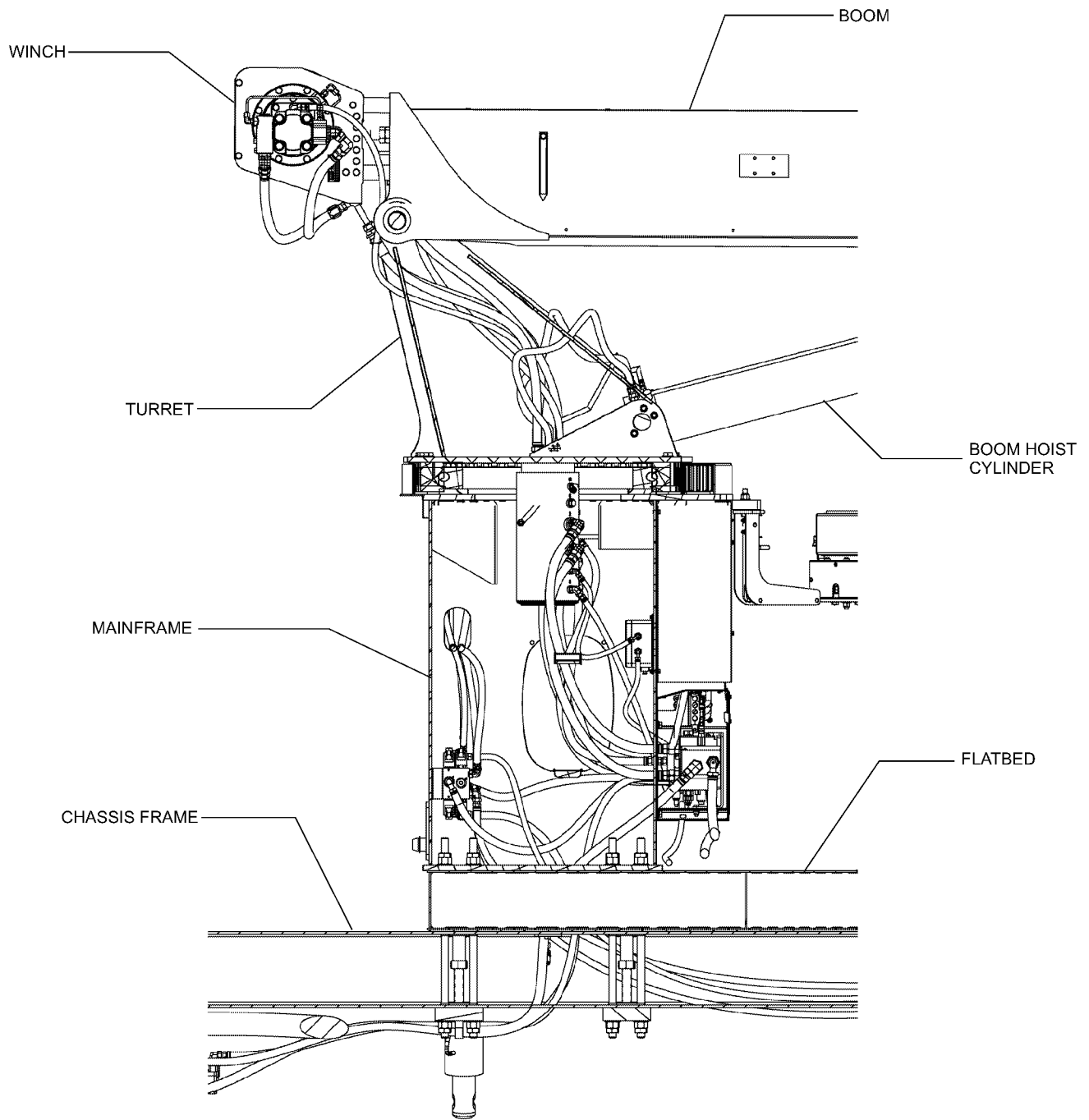
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



SECTION B - B

SEE PAGE 51.38

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

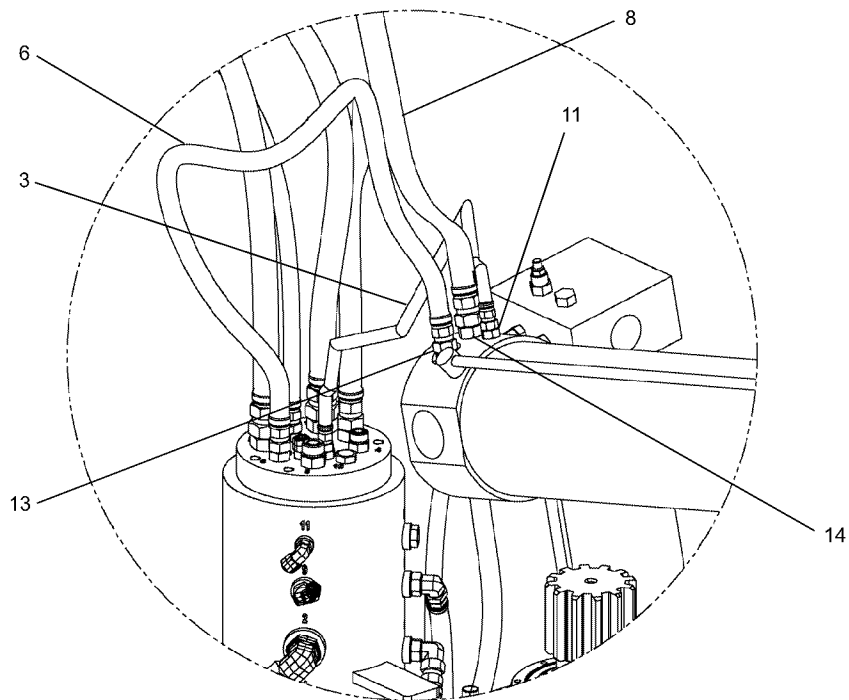
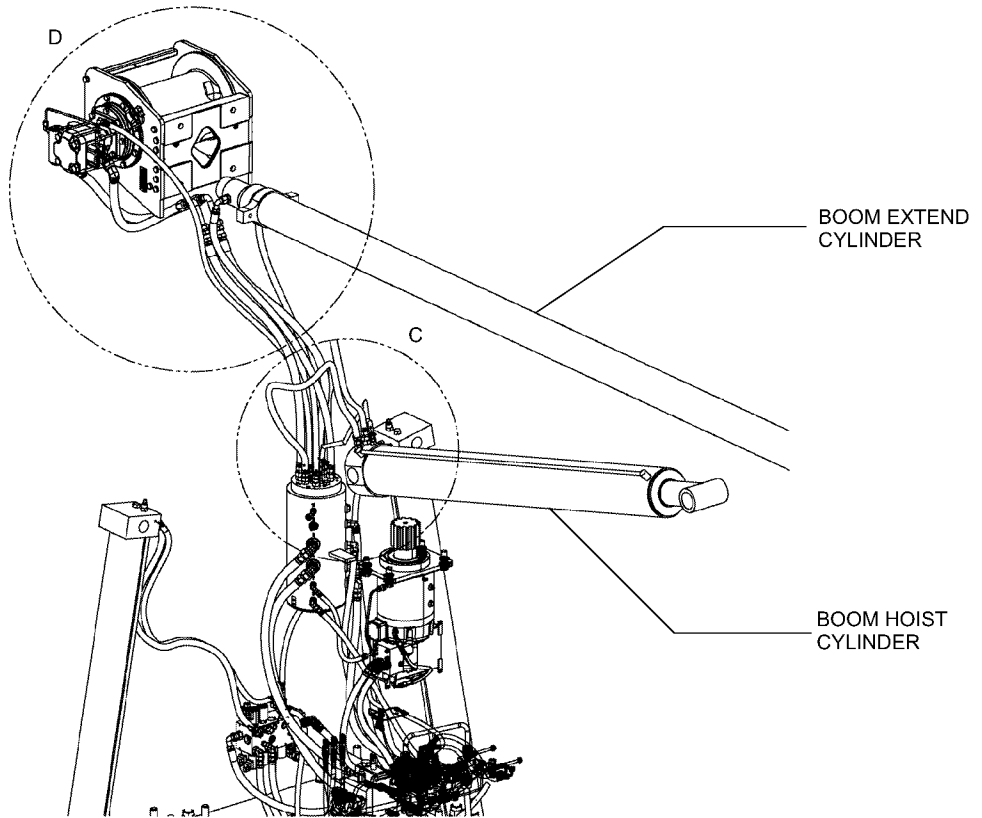
DATE: Revised 07-2009

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GROUP

**51**



DETAIL C

**SEE PAGE 51.38**

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

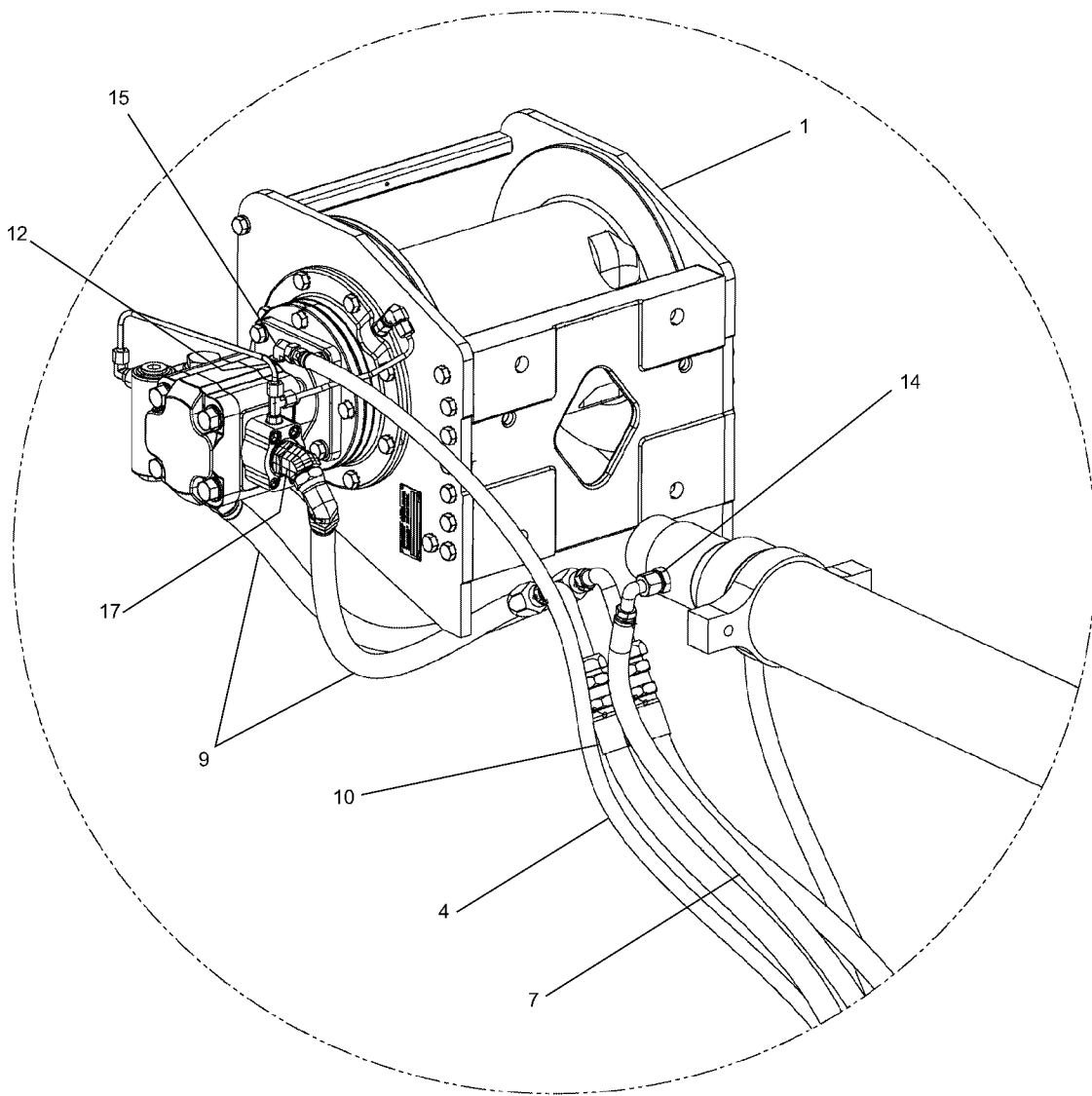
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



DETAIL D

**SEE PAGE 51.38**

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

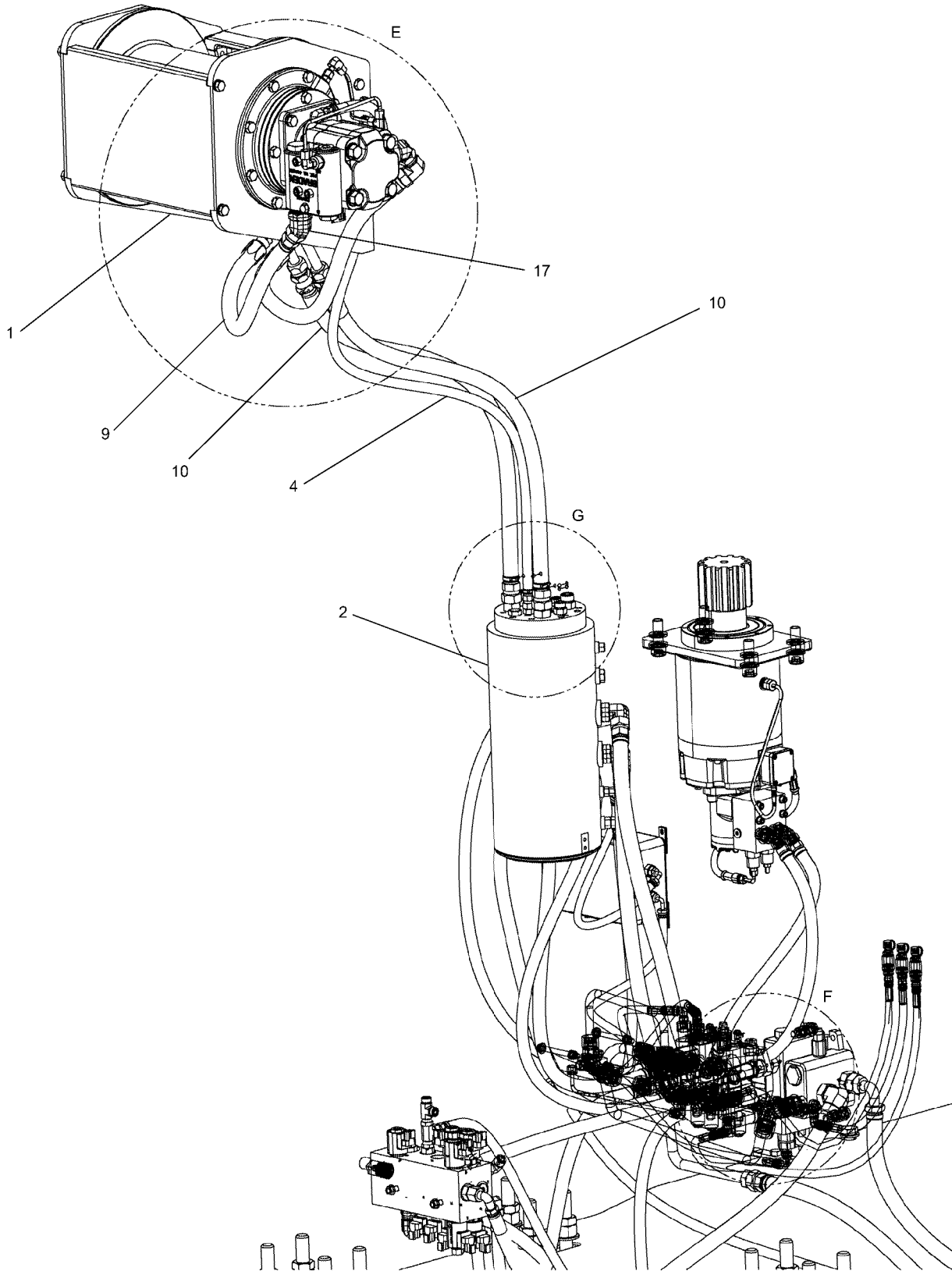
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



**SEE PAGE 51.38**

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

DATE: Revised 07-2009

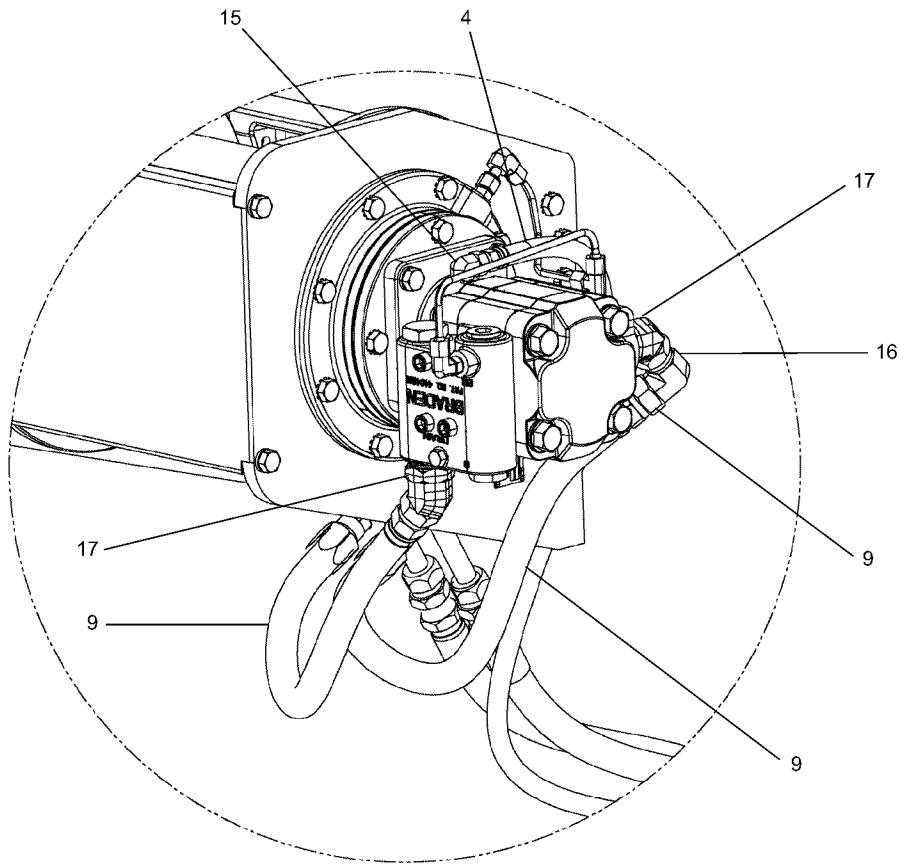
MODEL: BT3870

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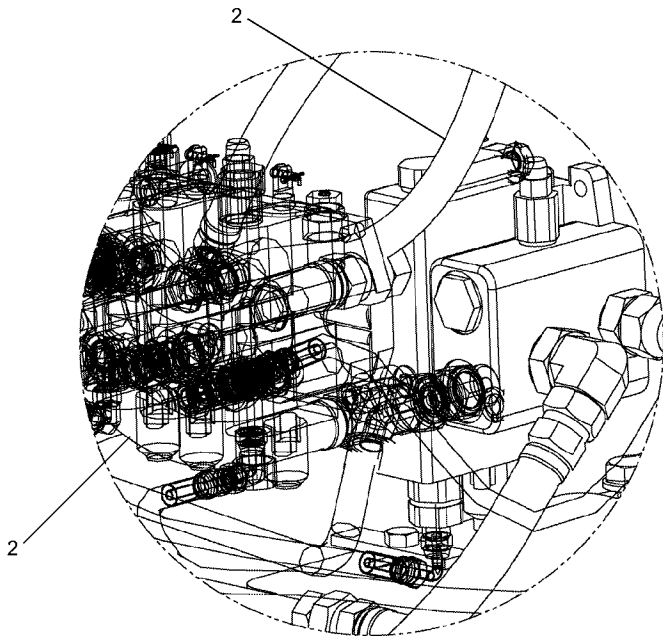
GROUP

**51**

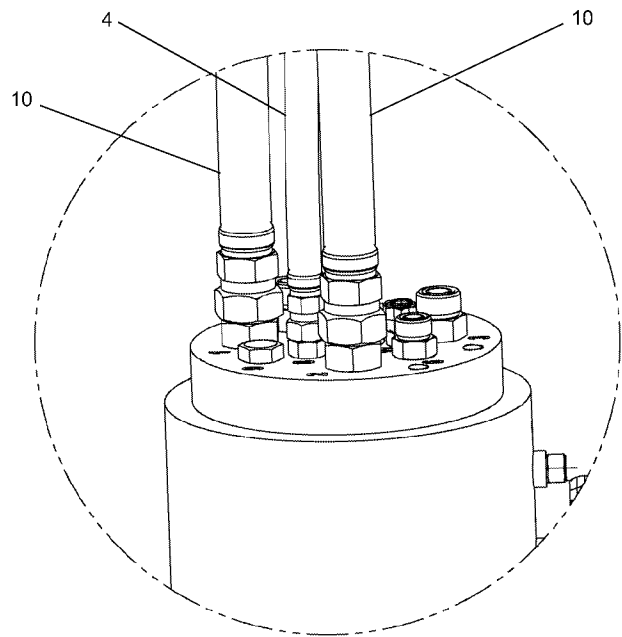




DETAIL E



DETAIL F



DETAIL G

**SEE PAGE 51.38**

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

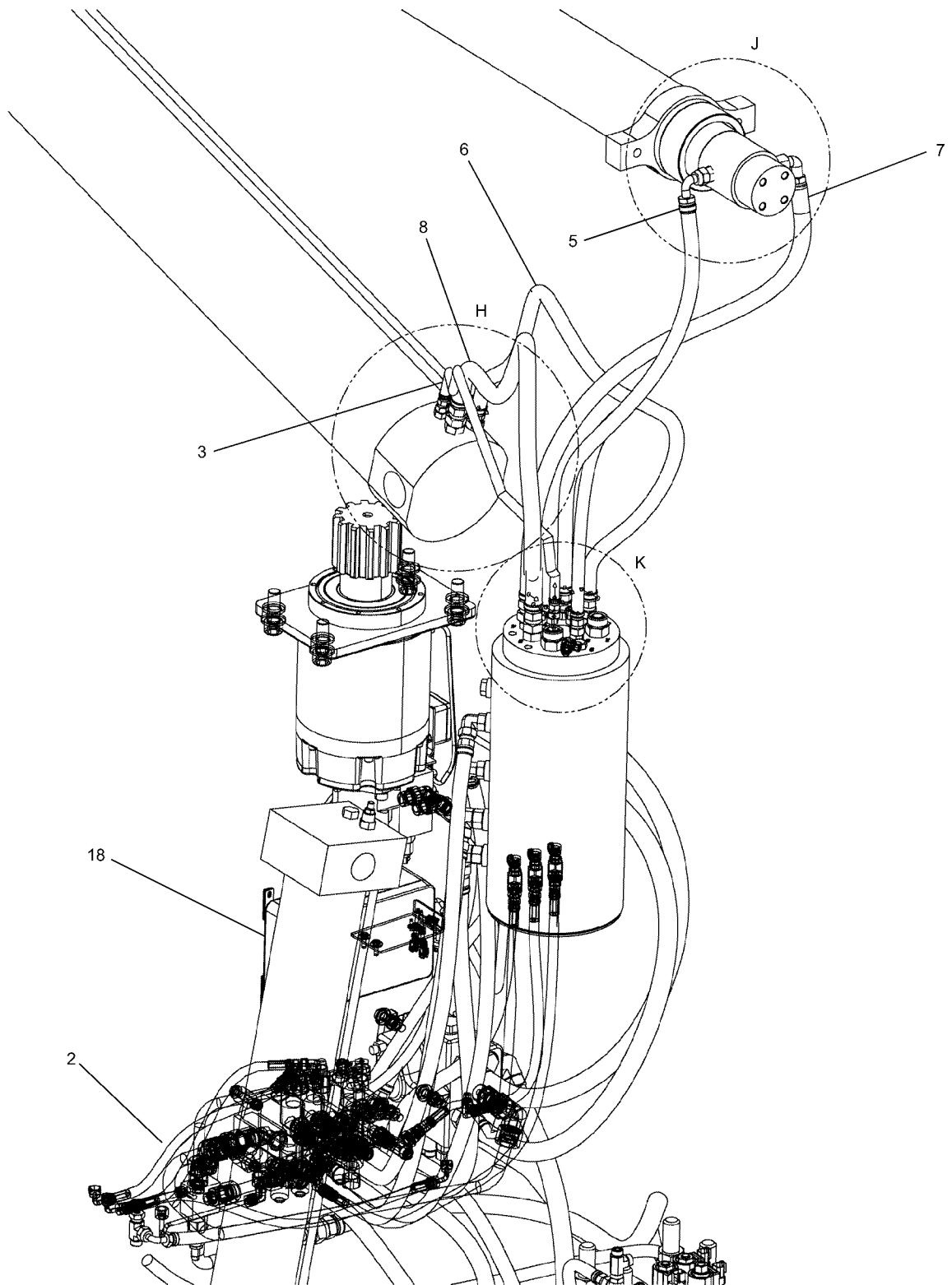
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



**SEE PAGE 51.38**

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

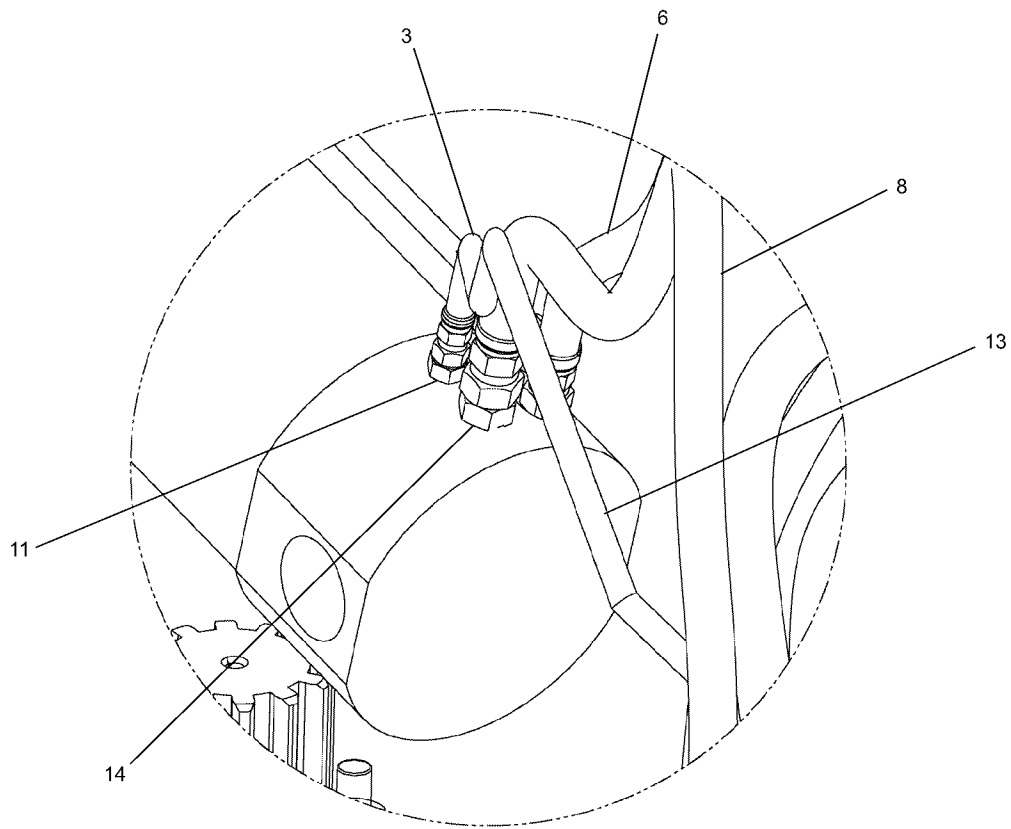
DATE: Revised 07-2009

MODEL: BT3870

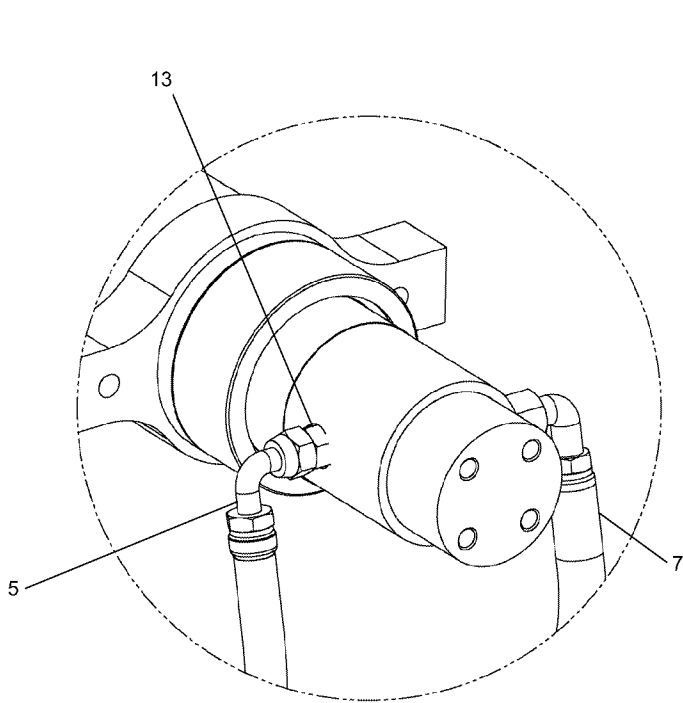
PAGE 51.36

GROUP

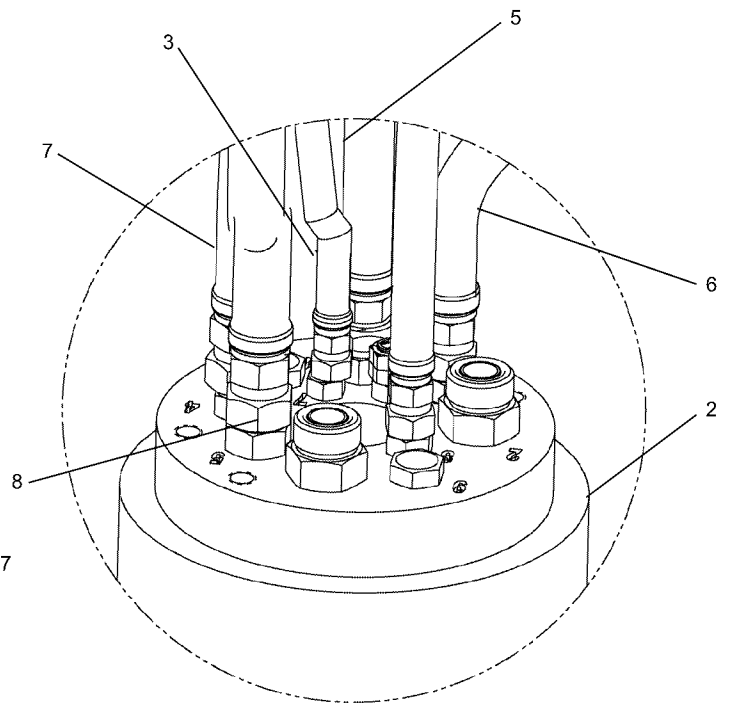
**51**



DETAIL H



DETAIL J



DETAIL K

**SEE PAGE 51.38**

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



**HYDRAULIC INSTALLATION  
CON ROT - CF**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

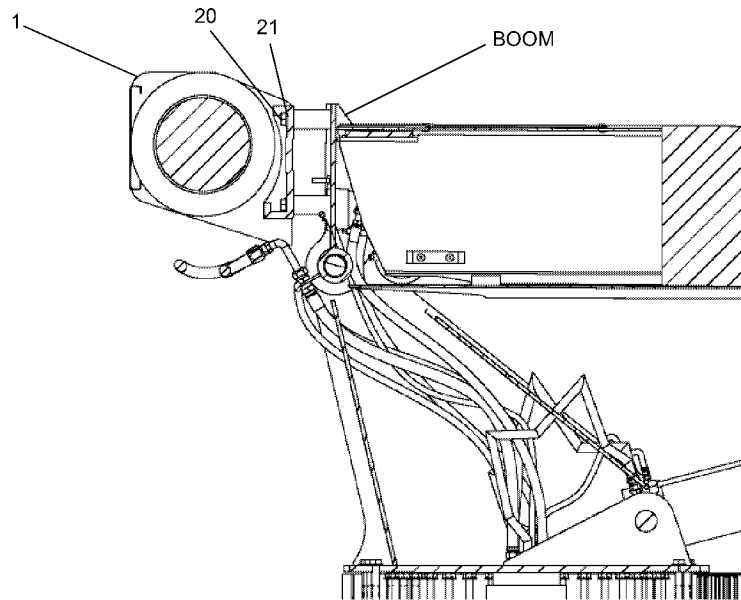
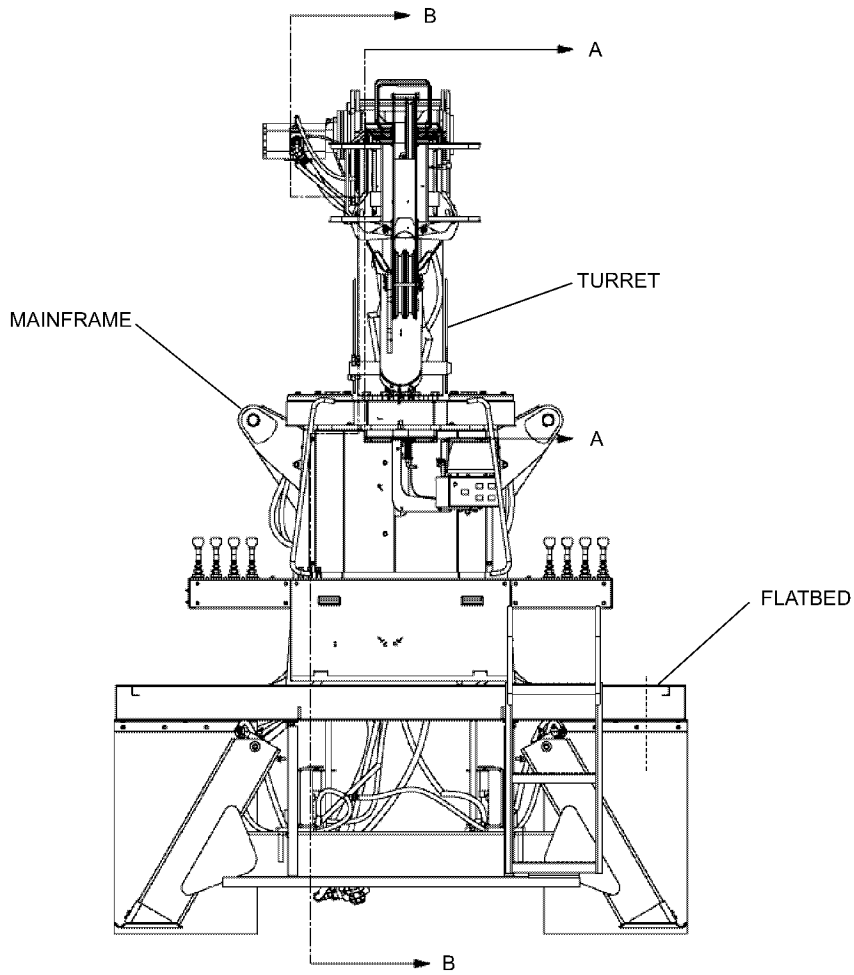
**51**

**SEE PAGES 51.30, 51.31, 51.32, 51.33, 51.34, 51.35, 51.36 & 51.37**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-03	<i>Hydraulic Installation, BT 3870, CON - CF (Items 1-20)</i>	
1	293-00048	Winch, 12,000# .....	1
2	500-01839-03	Hydraulic Installation, Main Outrigger .....	1
3	502-11348	Hose Assembly, RCI/TPG CYL Upper.....	1
4	502-21020	Hose, Winch Drain CF Conrot .....	1
5	502-30783	Hose Assembly, Tele Retract - Upper .....	1
6	502-30786	Hose Assembly, TBG (RET) Upper .....	1
7	502-35084	Hose Assembly, Tele Extend - Upper .....	1
8	502-35088	Hose Assembly, Boom TPG (EXT) Upper .....	1
9	502-41015	Hose Assembly, Winch, Short.....	2
10	502-41016	Hose Assembly, Winch Swivel Upper .....	2
11	513-20019	CONN M#4 OFS X M#6 ORB.....	1
12	513-20027	STR Adapter, FF-2404-6-4 .....	1
13	513-50023	STR CONN M#8 OFS X M#8 ORB.....	2
14	513-60008	CONN M#10 OFS X M#10 ORB.....	2
15	514-64002	Elbow 90 DEG, Swivel, -6.....	1
16	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
17	515-07003	Fitting, 45 DEG, FGFF-6802-12-16.....	2
18	695-10020	Structural Assembly, BT3870.....	REF
19	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8.....	4
20	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	4

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

	<b>HYDRAULIC INSTALLATION CON ROT - CF</b>	DATE: Revised 07-2009	<b>GROUP 51</b>
		MODEL: BT3870	
		PAGE 51.38	



SECTION A - A

SEE PAGE 51.47

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



**HYDRAULIC INSTALLATION  
CON ROT - MS**

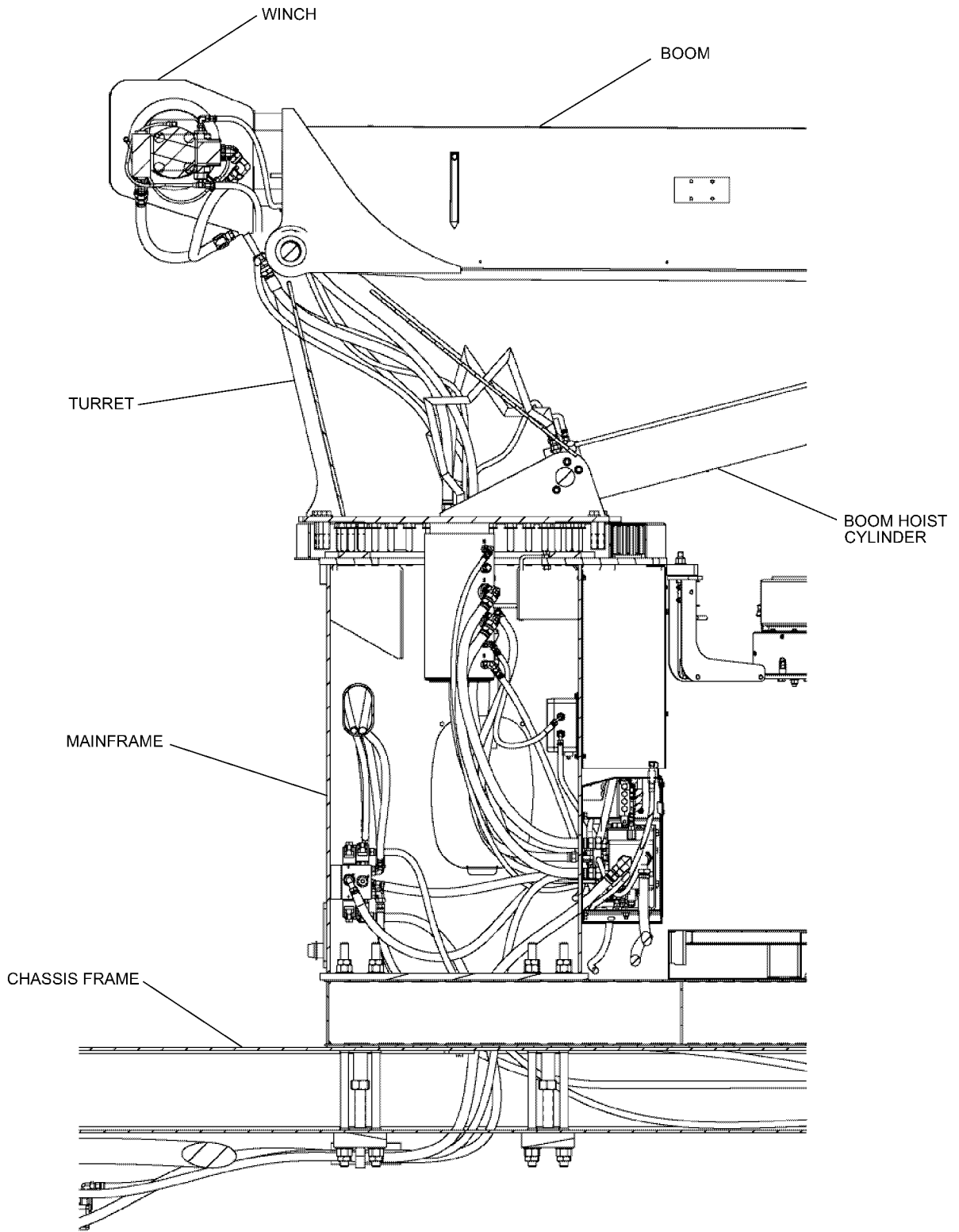
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**

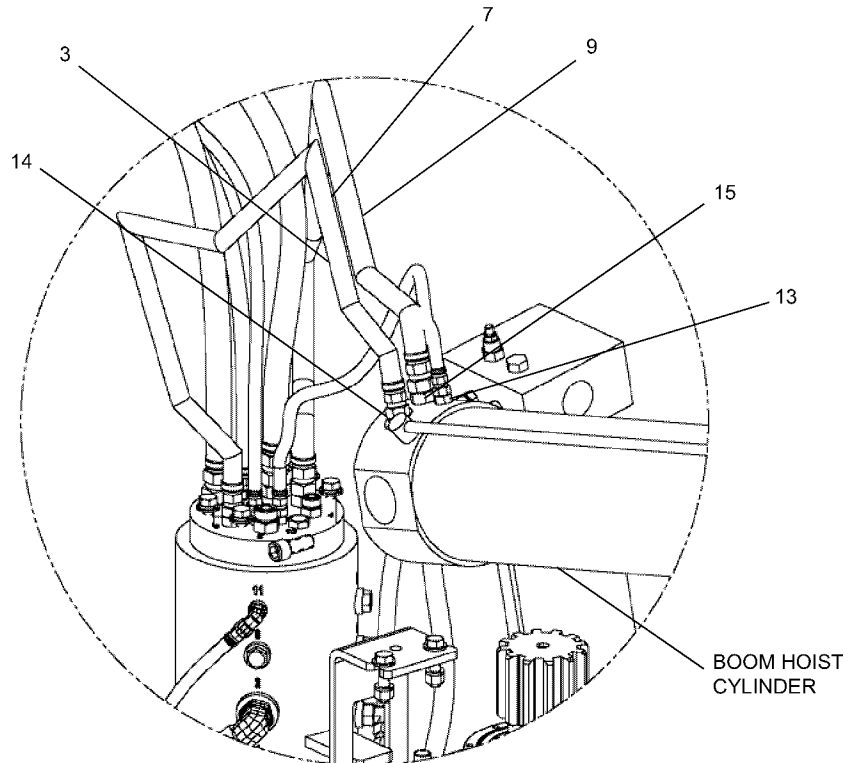
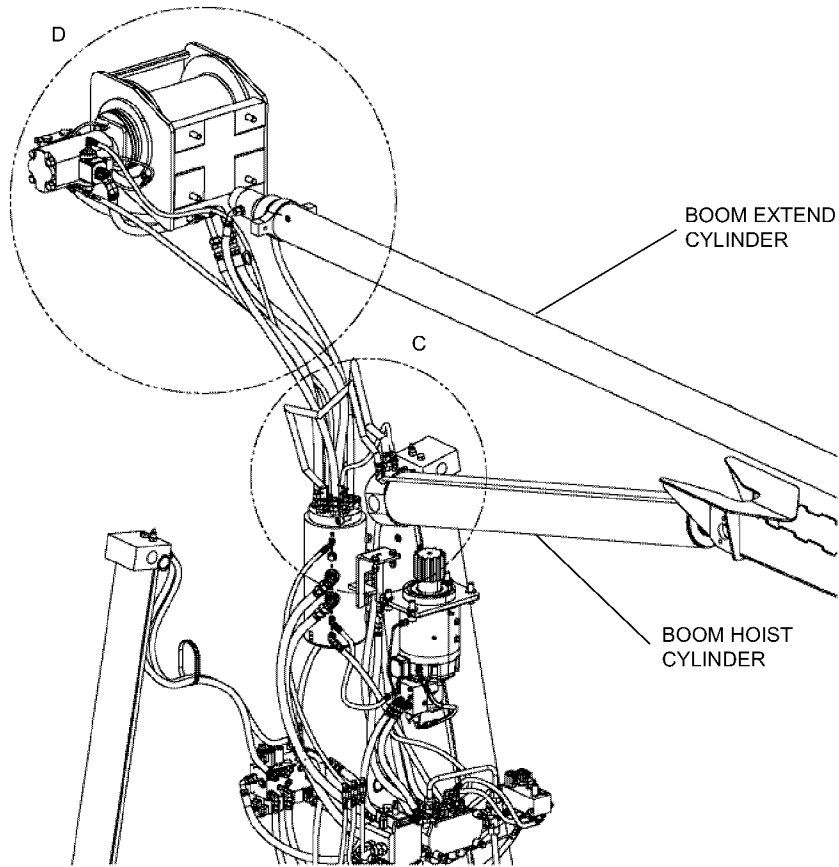


SECTION B - B

**SEE PAGE 51.47**

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

	<p><b>HYDRAULIC INSTALLATION CON ROT - MS</b></p>	DATE: Revised 07-2009	<p><b>GROUP 51</b></p>
		MODEL: BT3870	
		PAGE 51.40	



DETAIL C

**SEE PAGE 51.47**

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



**HYDRAULIC INSTALLATION  
CON ROT - MS**

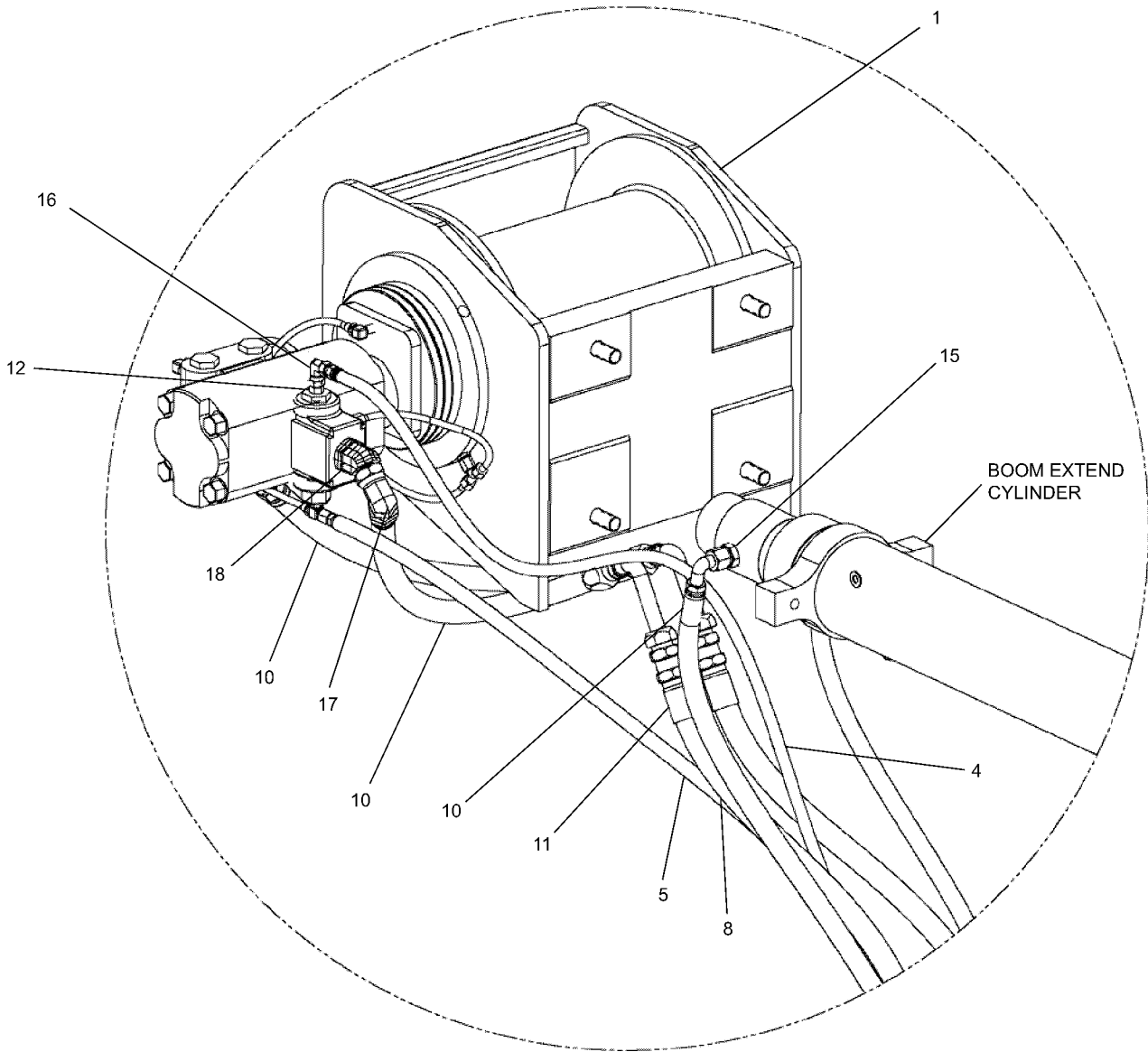
DATE: Revised 07-2009

MODEL: BT3870

PAGE 51.41

GROUP

**51**



BOOM EXTEND  
CYLINDER

DETAIL D

**SEE PAGE 51.47**

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



**HYDRAULIC INSTALLATION  
CON ROT - MS**

DATE: Revised 07-2009

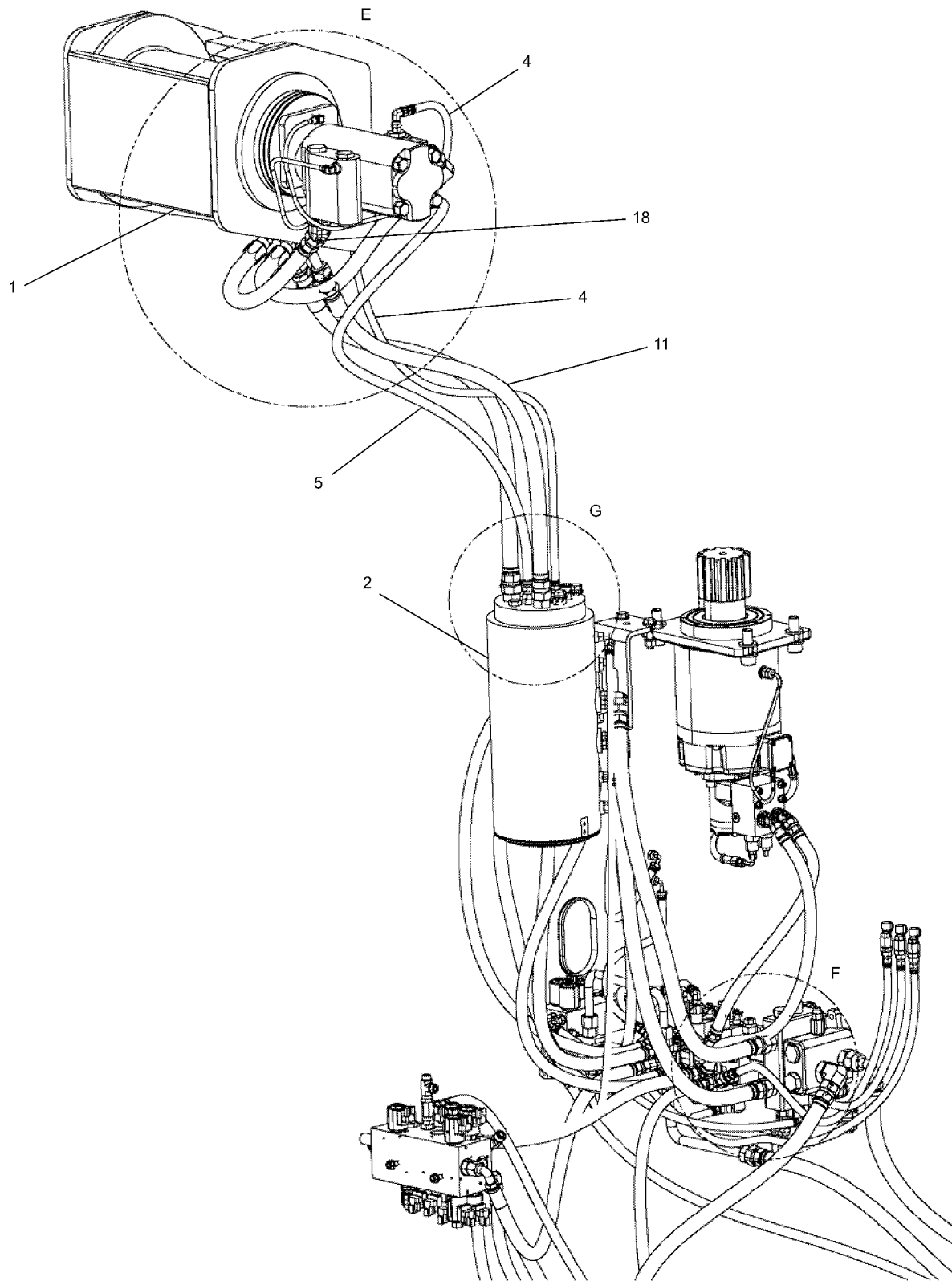
MODEL: BT3870

PAGE 51.42

GROUP

**51**





**SEE PAGE 51.47**

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



**HYDRAULIC INSTALLATION  
CON ROT - MS**

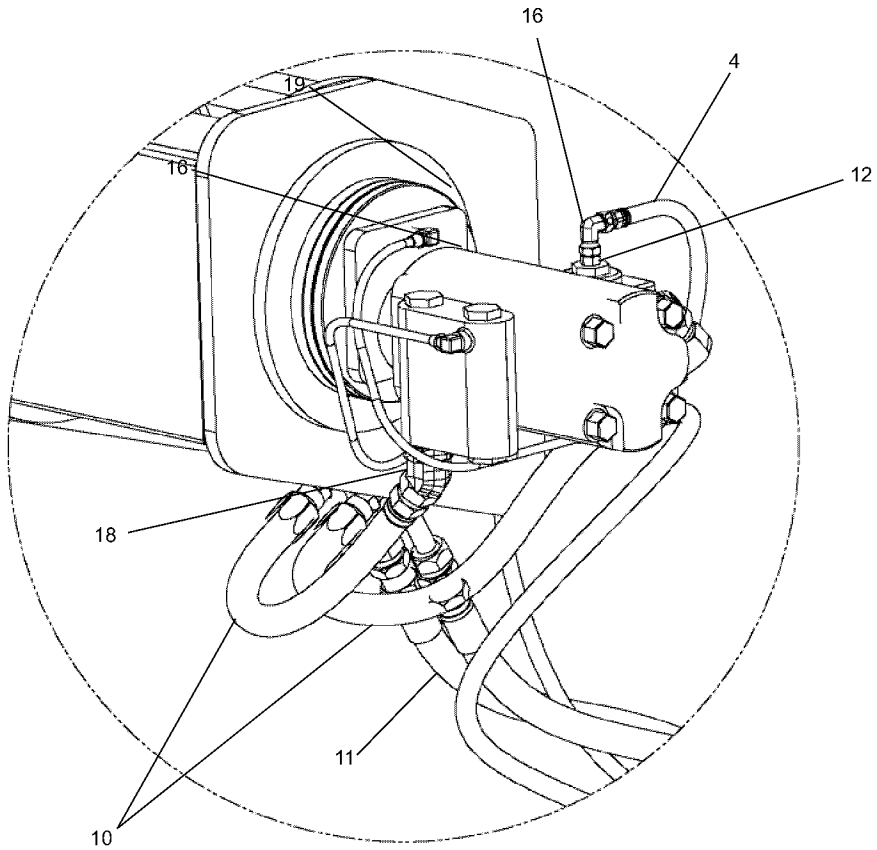
DATE: Revised 07-2009

MODEL: BT3870

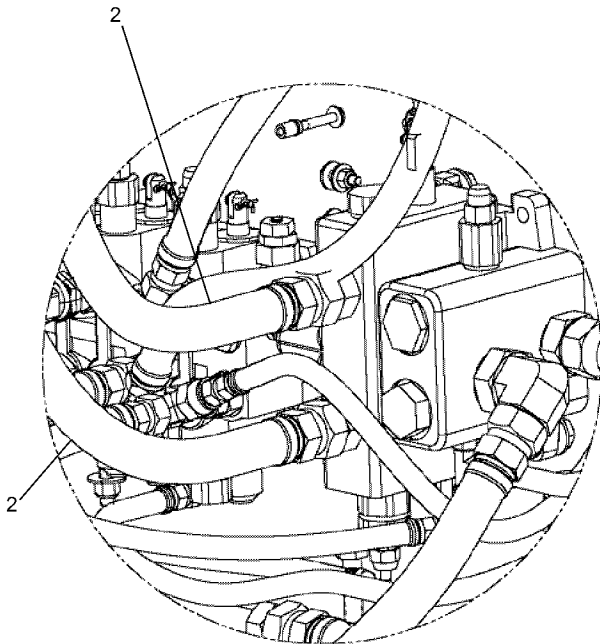
PAGE 51.43

GROUP

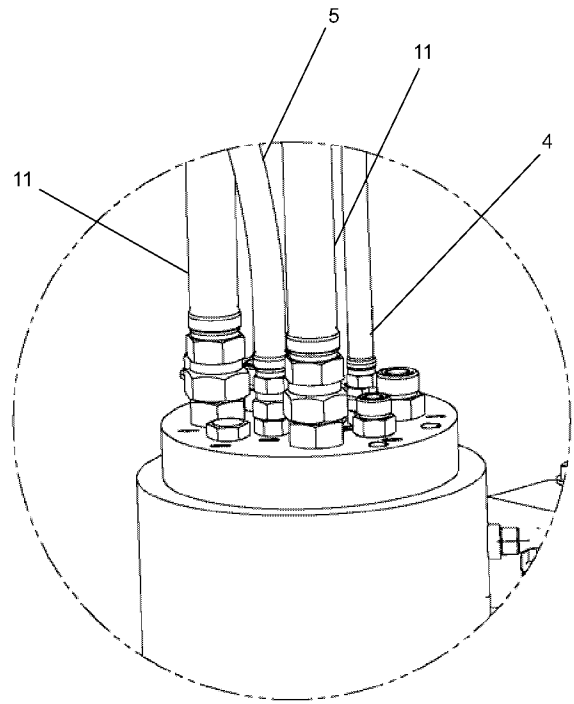
**51**



DETAIL E



DETAIL F



DETAIL G

**SEE PAGE 51.47**

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



**HYDRAULIC INSTALLATION  
CON ROT - MS**

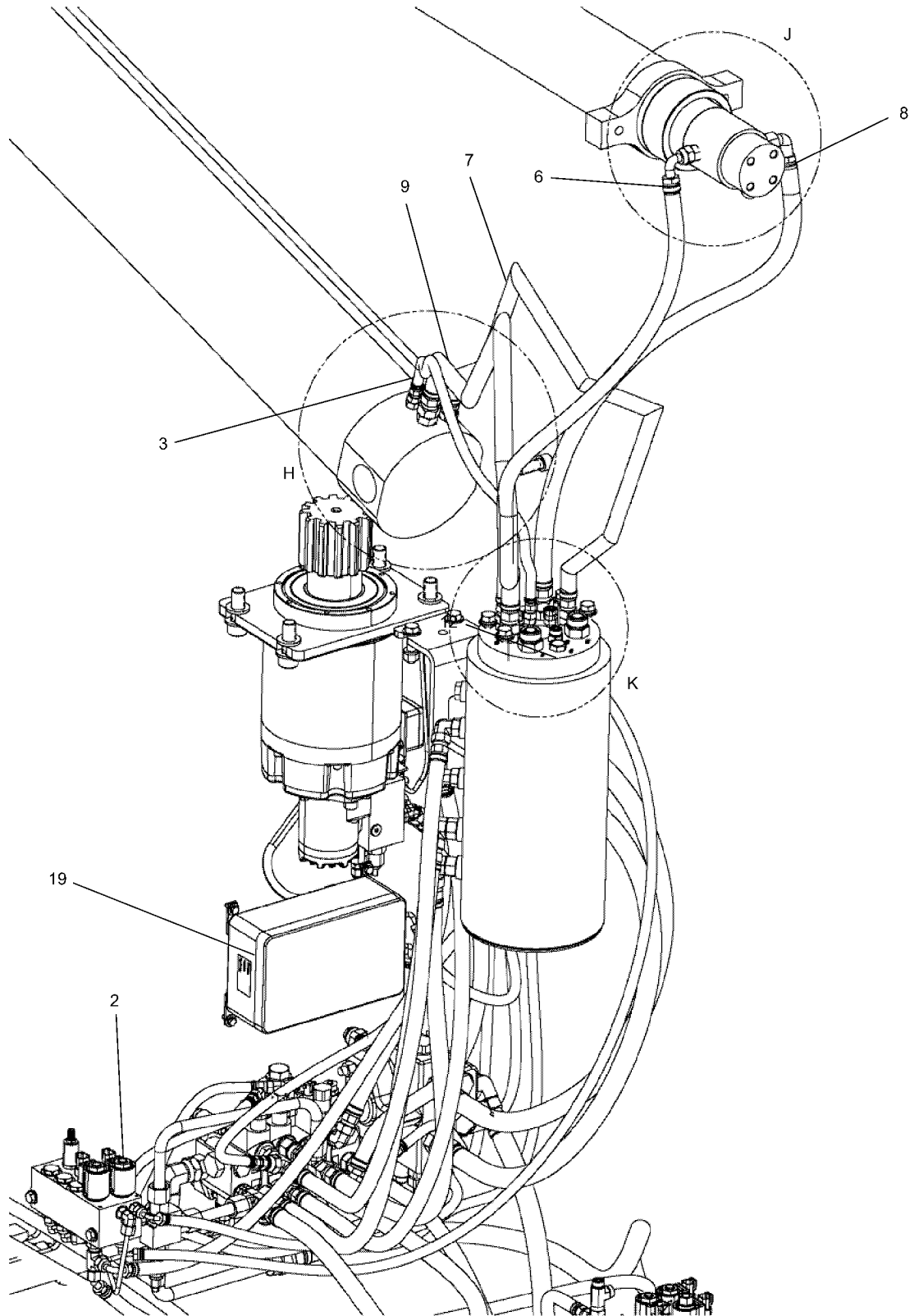
DATE: Revised 07-2009

MODEL: BT3870

PAGE 51.44

GROUP

**51**



SEE PAGE 51.47

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



**HYDRAULIC INSTALLATION  
CON ROT - MS**

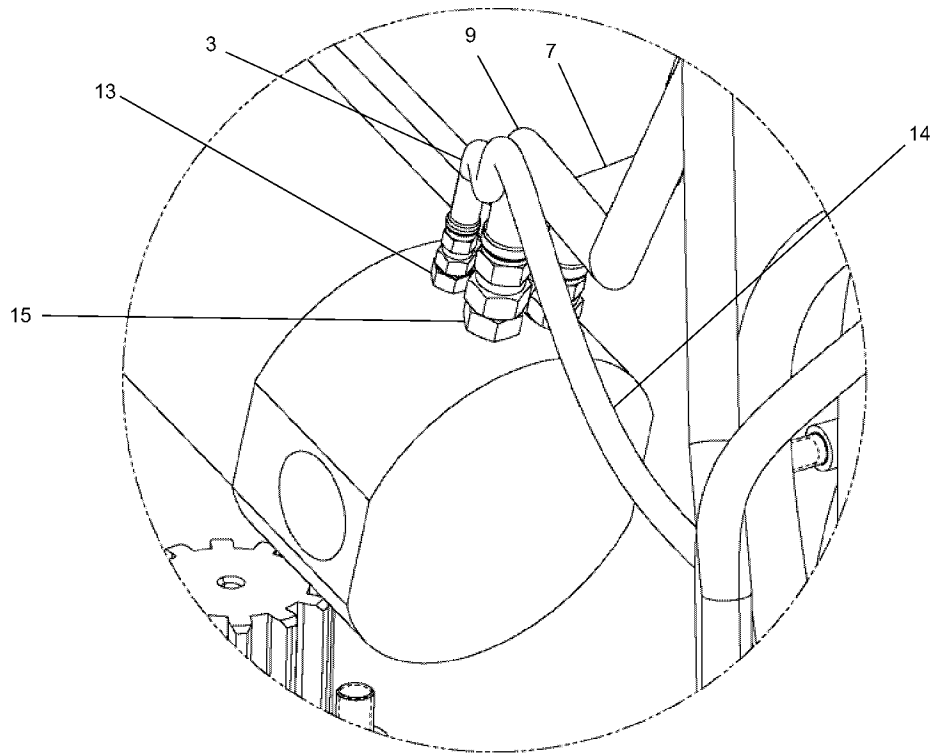
DATE: Revised 07-2009

MODEL: BT3870

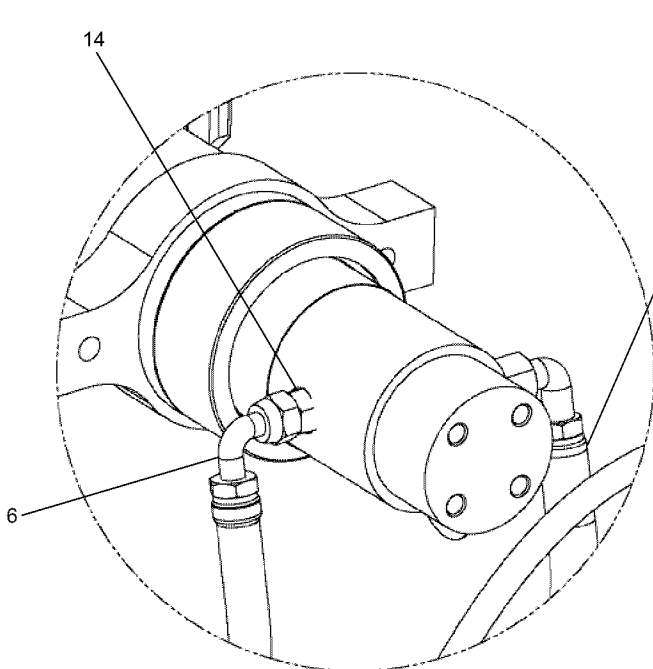
PAGE 51.45

GROUP

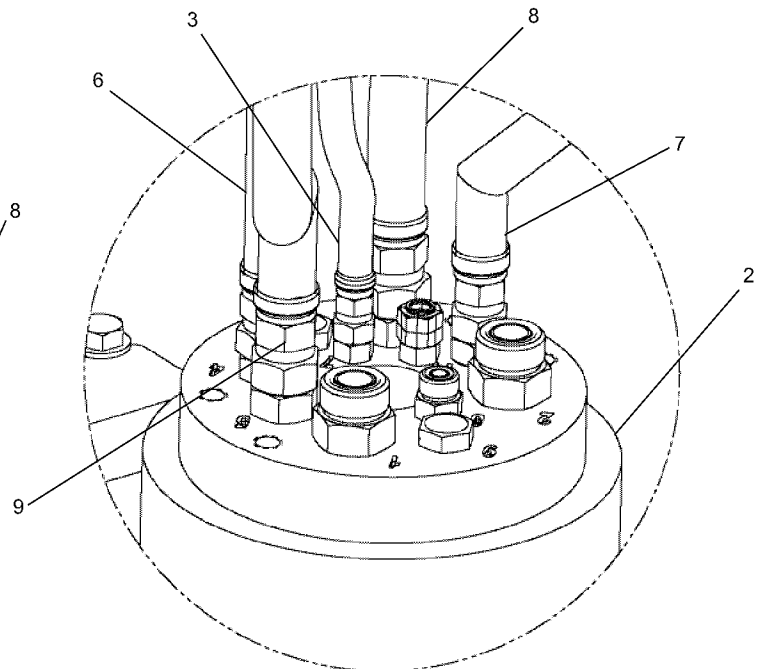
**51**



DETAIL H



DETAIL J



DETAIL K

**SEE PAGE 51.47**

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



**HYDRAULIC INSTALLATION  
CON ROT - MS**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

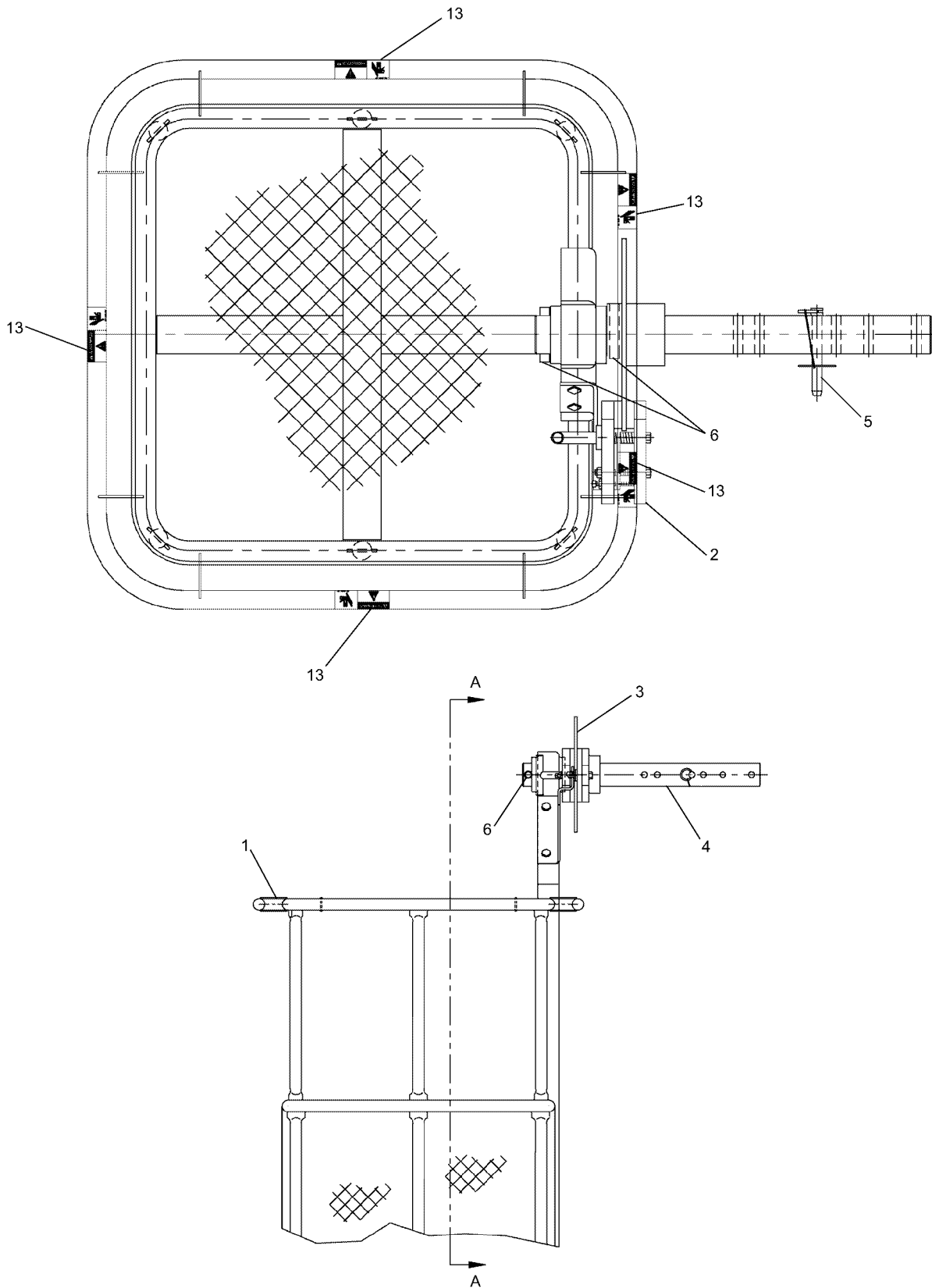
**51**

**SEE PAGES 51.39, 51.40, 51.41, 51.42, 51.43, 51.44, 51.45 & 51.46**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01833-04	<i>Hydraulic Installation, BT 3870, CON - MS (Items 1-21)</i>	
1	293-00044	Winch Assembly, 12K 2 Speed.....	1
2	500-01839-04	Hydraulic Installation, Main Outrigger .....	1
3	502-11348	Hose Assembly, RCI/TPG CYL Upper.....	1
4	502-11349	Hose Assembly, 2SP Pilot Upper .....	1
5	502-21022	Hose, Winch MTR Drain, Upper .....	1
6	502-30783	Hose Assembly, Tele Retract - Upper .....	1
7	502-30786	Hose Assembly, TBG (RET) Upper .....	1
8	502-35084	Hose Assembly, Tele Extend - Upper .....	1
9	502-35088	Hose Assembly, Boom TPG (EXT) Upper .....	1
10	502-41015	Hose Assembly, Winch, Short.....	2
11	502-41016	Hose Assembly, Winch Swivel Upper .....	2
12	513-20017	STR CONN M#4 OFS X M#4 ORB.....	1
13	513-20019	CONN M#4 OFS X M#6 ORB.....	1
14	513-50023	STR CONN M#8 OFS X M#8 ORB.....	2
15	513-60008	CONN M#10 OFS X M#10 ORB.....	2
16	514-62002	Elbow 90 M0.25OFS X F0.25OFS SW .....	1
17	514-67004	Elbow Swivel 90 P#12C6LO-S .....	1
18	515-07003	Fitting, 45 DEG, FGFF-6802-12-16.....	2
19	695-10020	Structural Assembly, BT3870.....	REF
20	S01-750CB25-Y8	Screw, HHCS 0.75-10X2.25, ST YZ GR8.....	4
21	WAH-75NX000-Y2	Washer, FL HRD A-NRW 0.75, ST YZ.....	4

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

	<b>HYDRAULIC INSTALLATION CON ROT - MS</b>	DATE: Revised 07-2009	<b>GROUP 51</b>
		MODEL: BT3870	
		PAGE 51.47	



SEE PAGE 51.49

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



**1 PERSON STEEL PLATFORM  
ASSEMBLY**

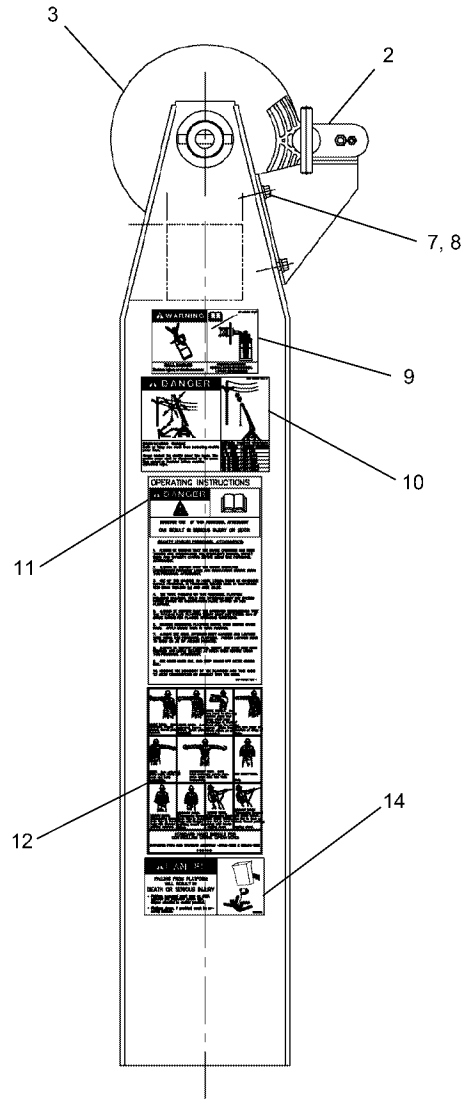
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



VIEW A - A

**SEE PAGE 51.48**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-20431	Assembly, Platform 1-Man (Steel) (Items 1-14)	
1	730-20432	Weldment, Platform .....	1
2	730-20114	Brake Sub-Assembly .....	1
3	730-20064	Disc Brake Weldment .....	1
4	870-60206	Pin 2 DIAX1/2 WallX21 1/16 .....	1
5	870-00131	Hitch Pin Assembly-1/2" DIA.....	1
6	224-19004	Roll Pin-1/2 X 3 LG .....	2
7	220-02004	HH BLT 3/8-16NC X 1 LG .....	2
8	222-12001	Lock Washer-3/8.....	2
9	651-00422	Decal, Jib Removal W/Lift ATTCH.....	2
10	651-00412	Decal, Electrocutation Platform.....	2
11	651-00466	Decal, Operating Instructions .....	2
12	652-00496	Decal, Crane Hand Signals .....	2
13	651-00469	Decal, Hands Off Rail .....	5
14	419264A	Decal, Falling From Platform .....	1

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



**1 PERSON STEEL PLATFORM  
ASSEMBLY**

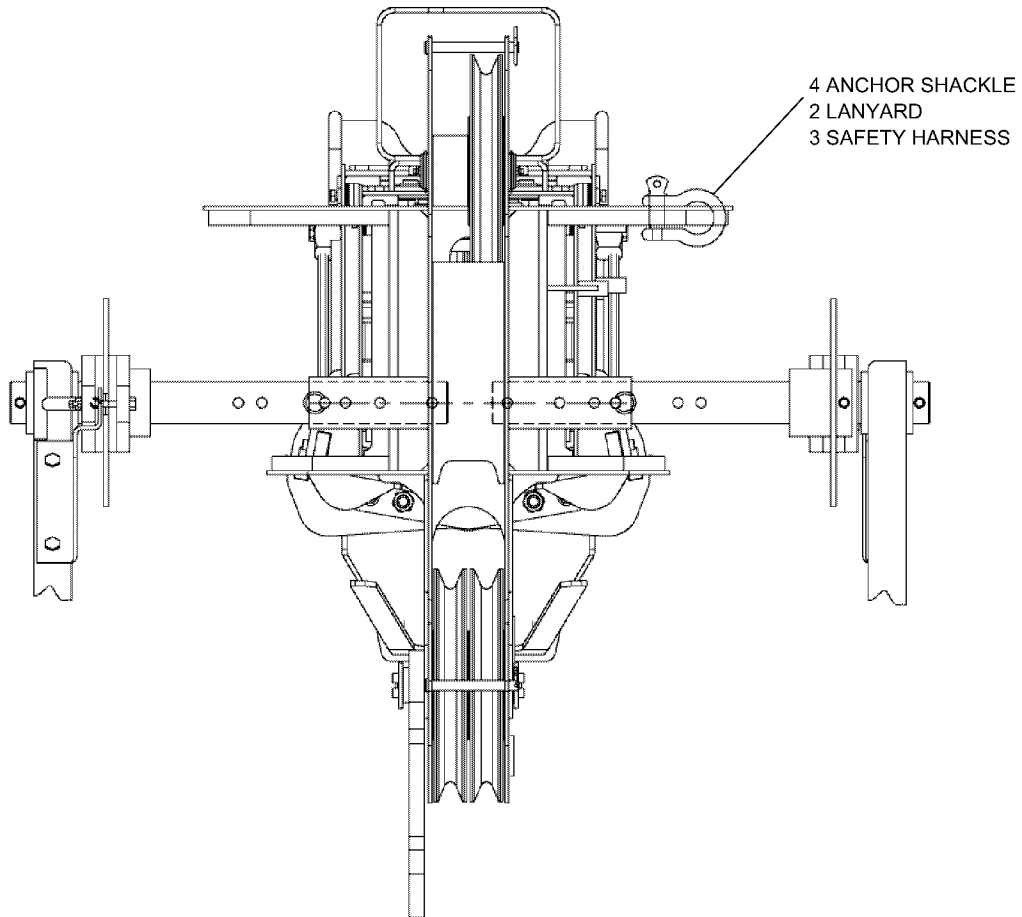
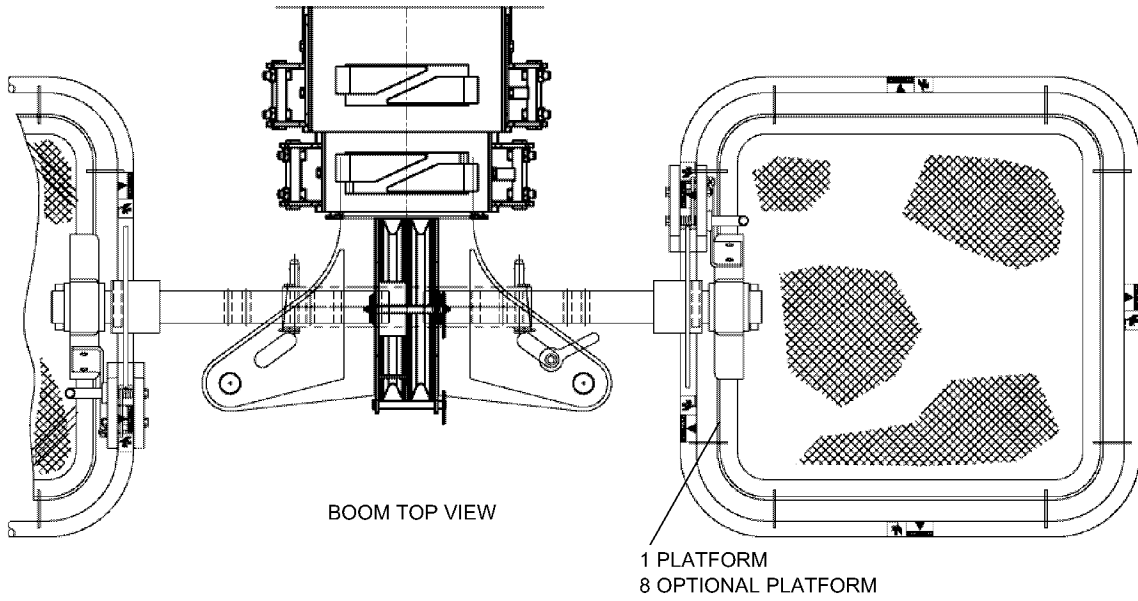
DATE: Revised 07-2009

MODEL: BT3870

PAGE 51.49

GROUP

**51**



SEE PAGE 51.51

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



**1 PERSON STEEL PLATFORM  
INSTALLATION**

DATE: Revised 07-2009

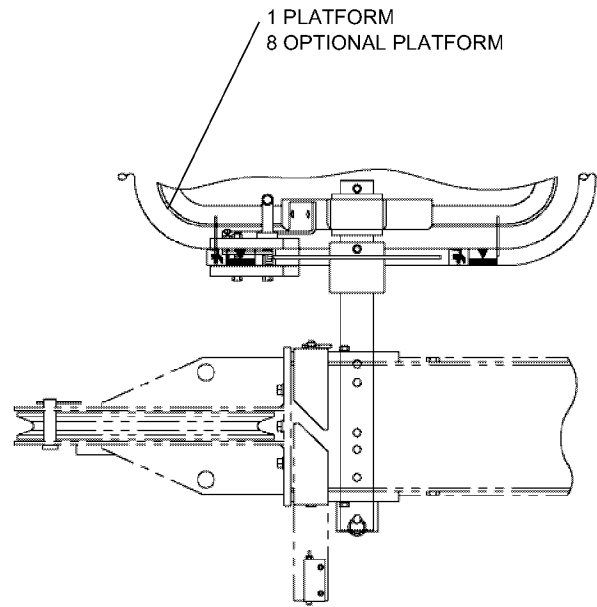
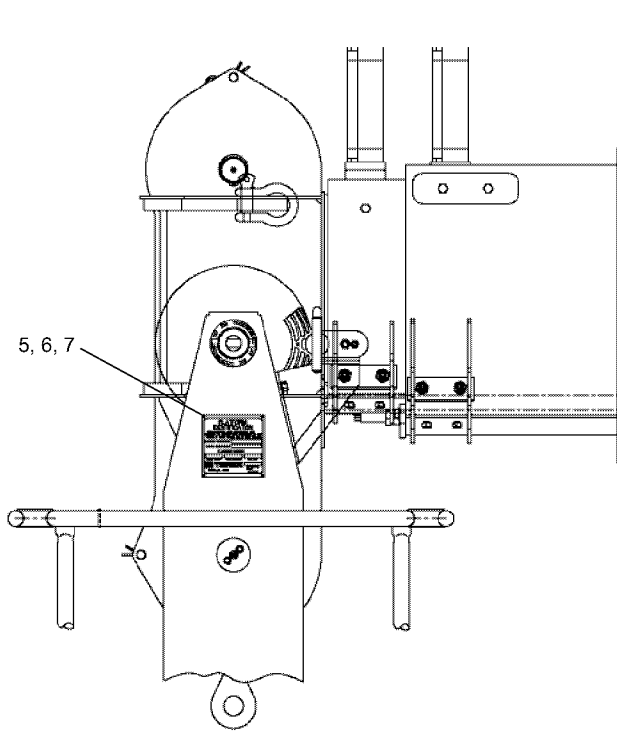
MODEL: BT3870

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GROUP

**51**





**SEE PAGE 51.50**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	731-20006	1-Man Steel Platform Install (Items 1-8)	
1	730-20431	1-Man Steel Platform Assembly.....	1
2	209-00434	Aerial Lanyard-Shock Absorb .....	1
3	209-00809	Safety Harness.....	1
4	861-90473	Screw-Pin Anchor Shackle.....	1
5	653-00407	Platform Identification Plate .....	1
6	226-00023-5	Pop Rivet, Alum, 0.125 DIA X 0.462 LG .....	4
7	652-00577	1 Or 2 Man Stamping Info Chart .....	REF
8	730-20412	1-Man Steel Platform Assembly (Old Style).....	REF

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



**1 PERSON STEEL PLATFORM  
INSTALLATION**

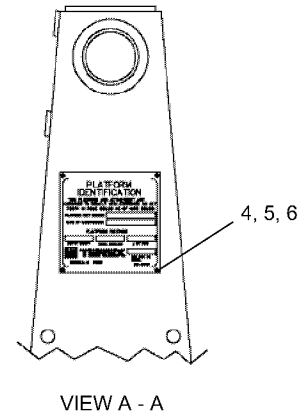
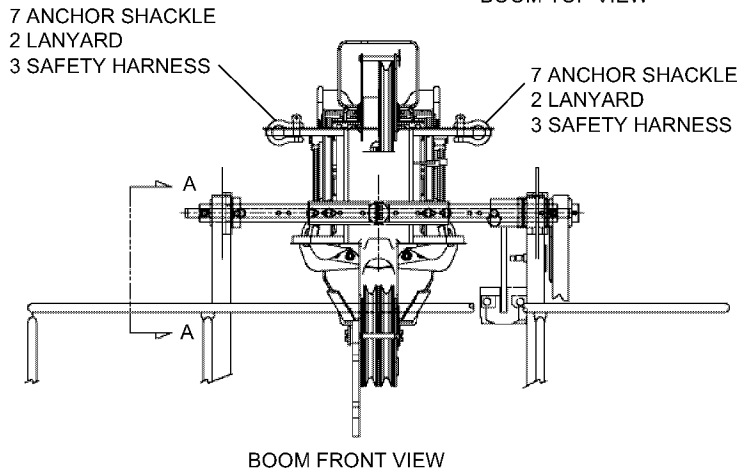
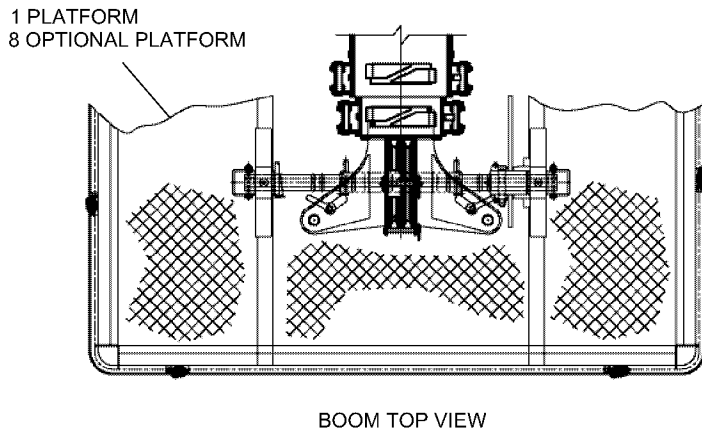
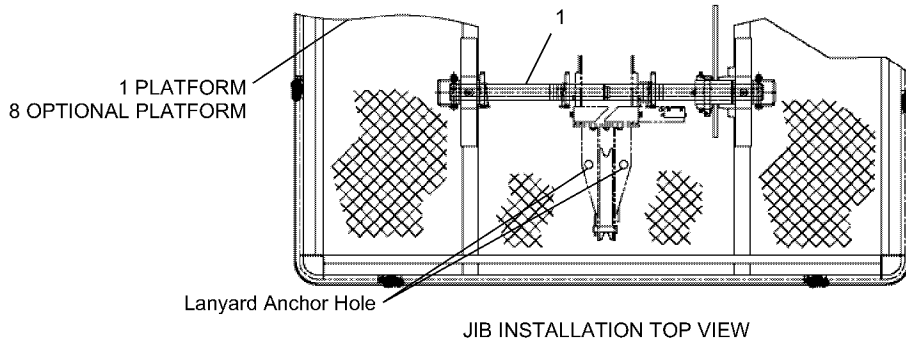
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



REF	PART NO.	DESCRIPTION	QTY
	731-30015	2-Man Steel Platform Install (Items 1-8)	
1	730-20433	2-Man Steel Platform Assembly.....	1
2	209-00434	Aerial Lanyard-Shock Absorbing .....	2
3	209-00809	Safety Harness .....	2
4	653-00407	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
7	861-90473	Screw-Pin Anchor Shackle .....	2
8	730-20408	2-Man Steel Platform Assembly (Old Style).....	REF

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



## 2 PERSON STEEL PLATFORM INSTALLATION

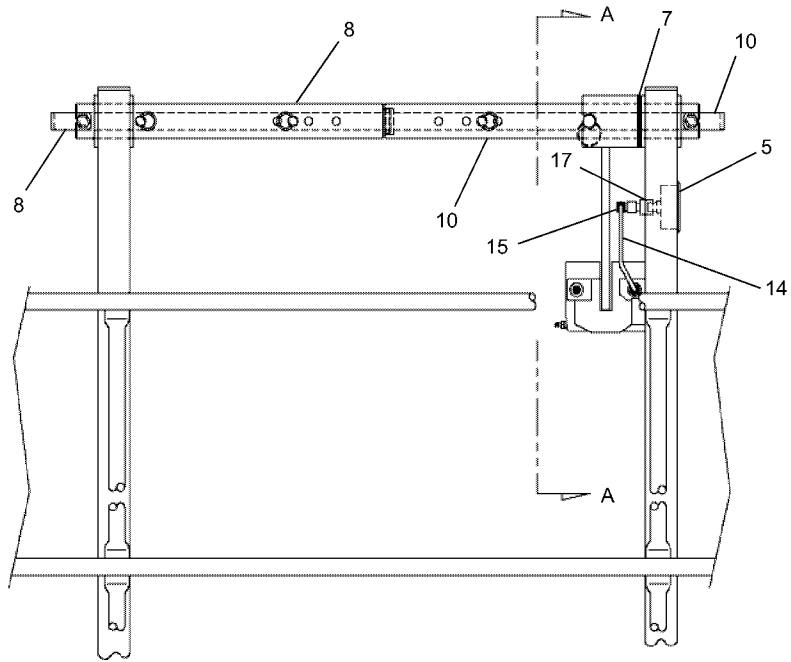
DATE: Revised 07-2009

MODEL: BT3870

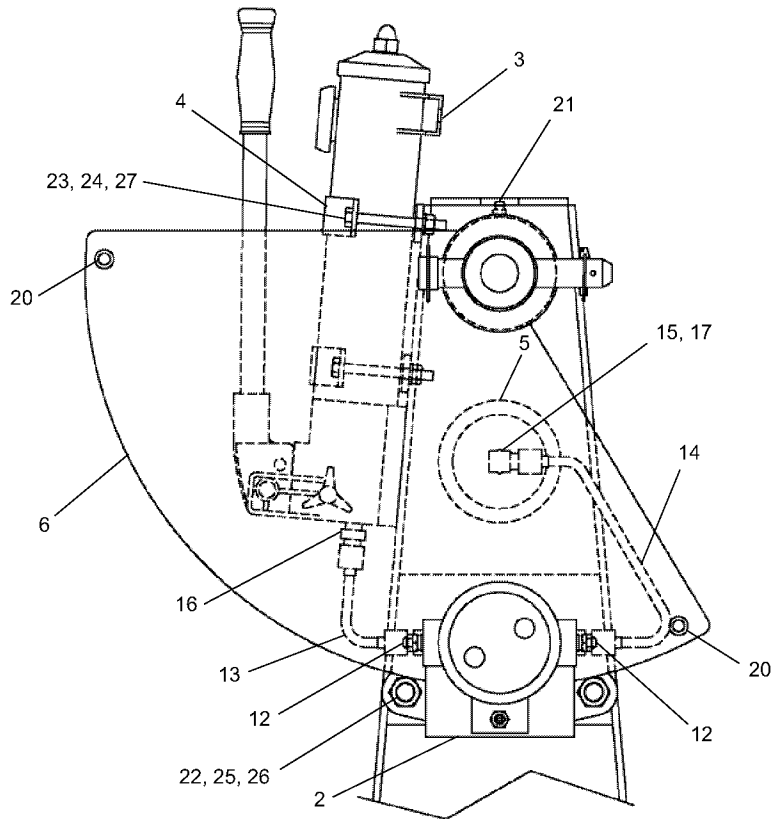
PAGE 51.52

GROUP

**51**



BOOM FRONT VIEW



SECTION A - A

SEE PAGE 51.56

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



**2 PERSON STEEL PLATFORM  
ASSEMBLY**

DATE: Revised 07-2009

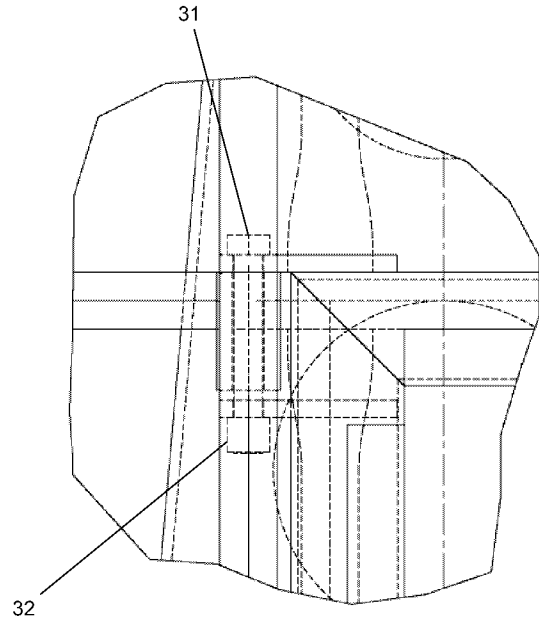
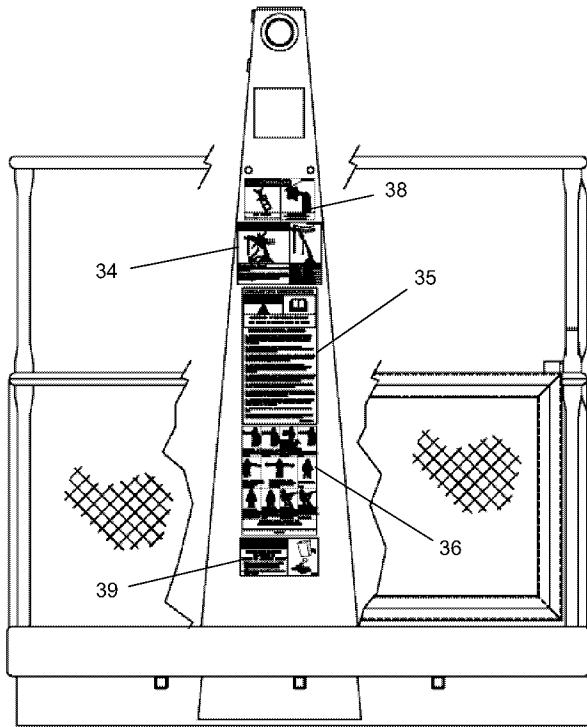
MODEL: BT3870

PAGE 51.53

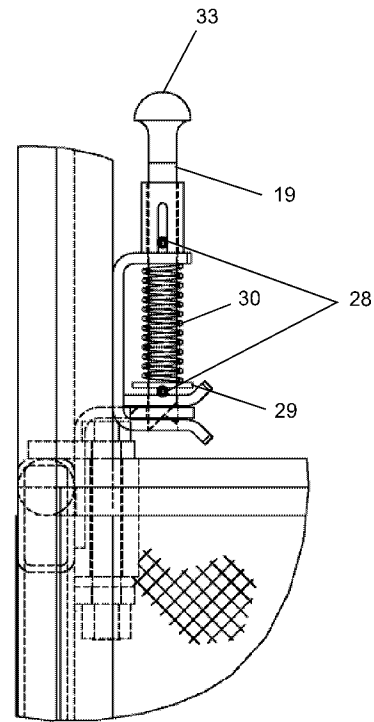
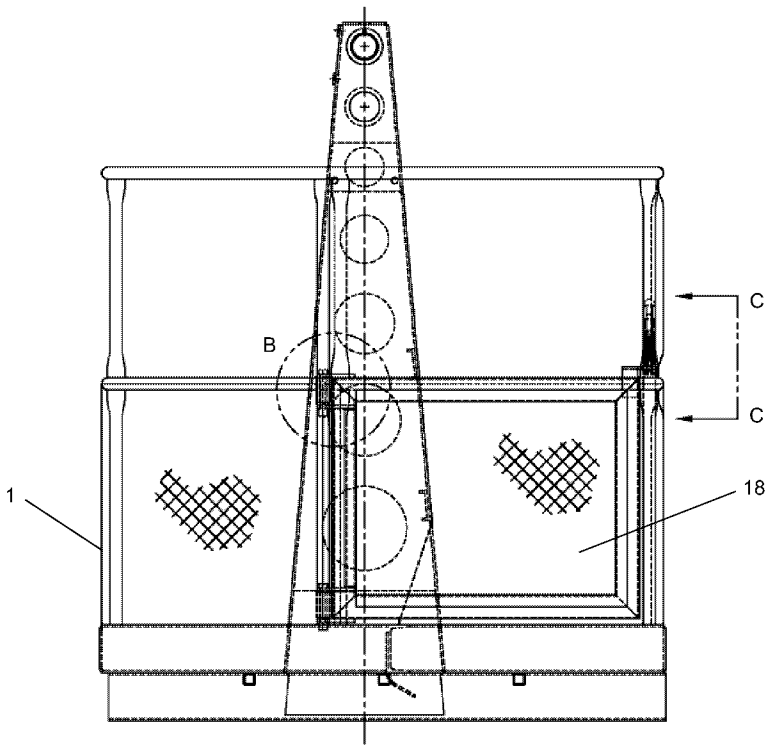
GROUP

**51**





DETAIL B



VIEW C - C

SEE PAGE 51.56

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



**2 PERSON STEEL PLATFORM  
ASSEMBLY**

DATE: Revised 07-2009

MODEL: BT3870

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GROUP

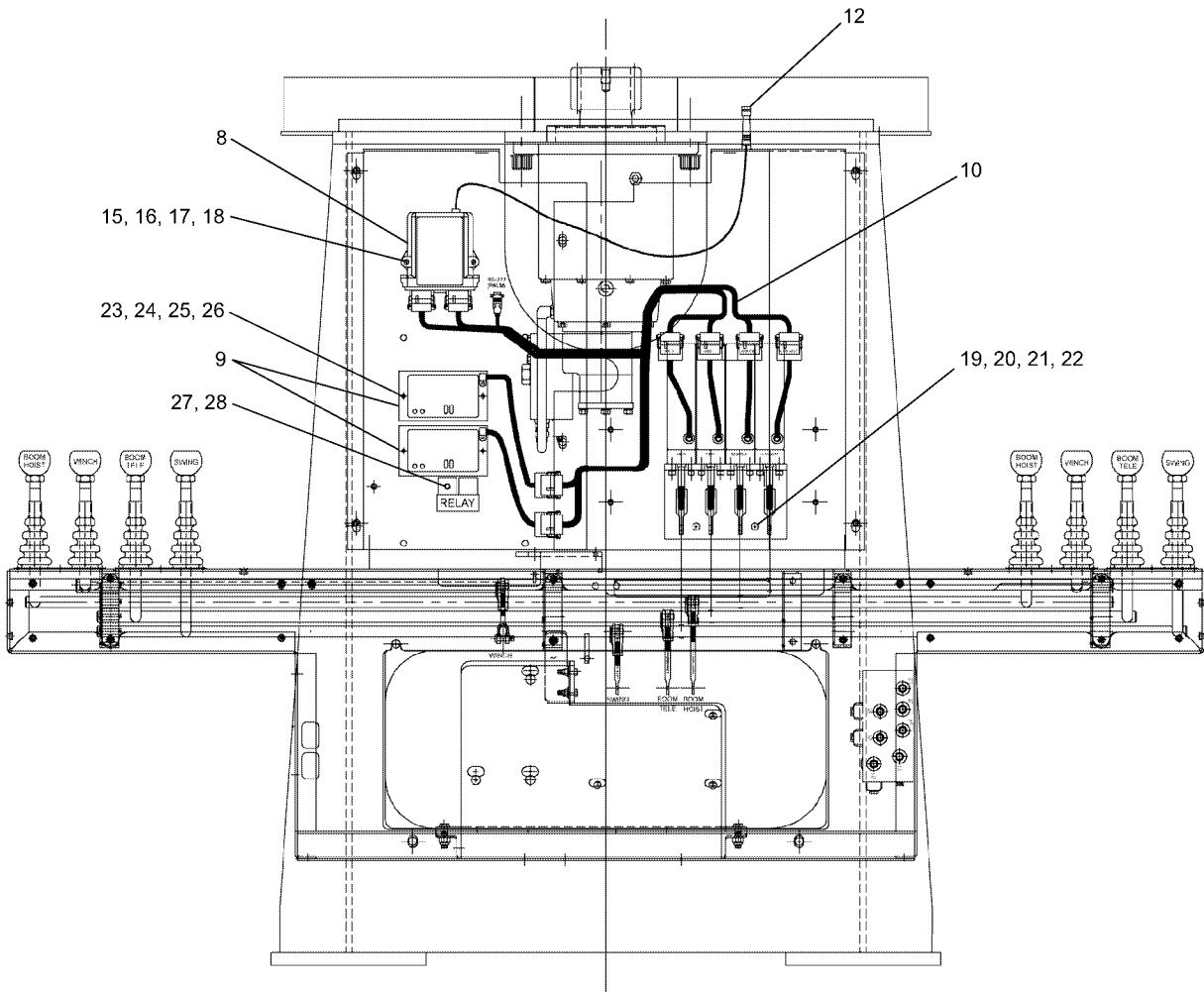
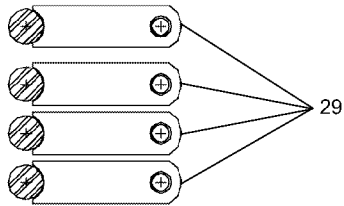
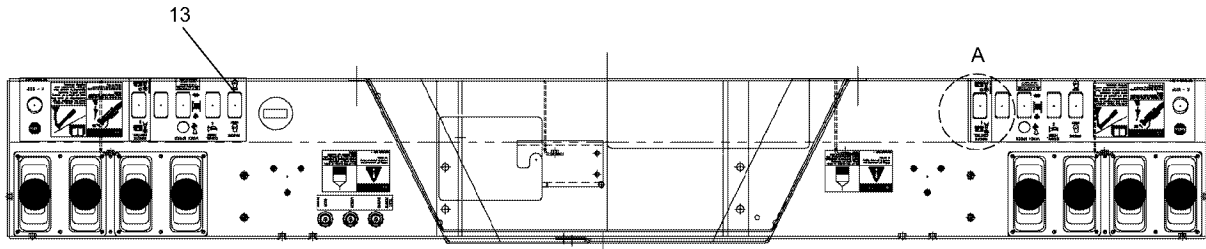
**51**

**SEE PAGES 51.53, 51.54 & 51.55**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	730-20433	<i>Assembly, Platform 2-Man (Steel) (Items 1-39)</i>	
1	730-20434	Platform Weldment, 2-Man.....	1
2	559-00055	HYD Brake, MICO #03-520-072.....	1
3	559-00056	Hand Pump ENERPAK #P-141.....	1
4	771-00128	Hand Pump Bracket.....	2
5	600-40280	Gauge, LHA #PGL-25-3000-11.....	1
6	730-20338	Disc Weldment.....	1
7	222-29011	Bushing 3" OD X 2" ID X 14 GA.....	4
8	870-60222	RH Pin Assembly (Pivot).....	1
9	870-00149	Hitch Pin Assembly-3/4" DIA.....	1
10	870-60220	LH Pin Assembly (Pivot).....	1
11	870-00131	Hitch Pin Assembly-1/2" DIA.....	3
12	513-20002	CONN, STR 4 ORB/4 JIC.....	2
13	510-20447	Tube Assembly, Pump.....	1
14	510-20448	Tube Assembly, Brake & Engage.....	1
15	514-62001	Elbow, 90 DEG S.NUT 4 JIC.....	1
16	513-20001	CONN, STR 1/4 MPT/4 JIC.....	1
17	513-20006	Adapter, STR 1/4 FPT/4 JIC.....	1
18	730-20441	Door Weld, Swing-Away.....	1
19	870-80013	Pin, Latch.....	1
20	224-19017	Roll Pin 1/2 OD X 1 1/4 LG.....	2
21	501-03001	Grease Fit STR 1/4-28 UNF.....	2
22	220-04011	HH Bolt 1/2-13NC X 4 LG.....	2
23	220-00005	HH Bolt 1/4-20NC X 2 1/2 LG.....	4
24	222-10005	Lockwasher, 1/4 DIA PLTD.....	4
25	222-14003	Lockwasher, 1/2 DIA PLTD.....	2
26	221-04001	Nut HEX 1/2-13NC PLTD.....	2
27	221-00001	Nut HEX 1/4-20NC PLTD.....	4
28	224-12009	Roll Pin, 1/8 X 1 LG PLT.....	2
29	222-04011	Flatwasher, 1/2 ID X 1-1/16 OD.....	1
30	202-10077	Spring, Compression.....	1
31	220-04025	HHCS, 1/2NC X 3-1/2 LG GR5 PLT.....	2
32	221-94002	Nut, 1/2 NC HEX PLT.....	2
33	808-00031	Knob, Push-Pull Black.....	1
34	651-00412	Decal, Electrocution Platform.....	2
35	651-00466	Decal, Operating Instructions.....	2
36	652-00496	Decal, Crane Hand Signals.....	2
37	651-00469	Decal, Hands Off Rail.....	6
38	651-00422	Decal, Jib Removal W/Lift Attach.....	2
39	419264A	Decal, Falling From Platform.....	2

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

	<p align="center"><b>2 PERSON STEEL PLATFORM ASSEMBLY</b></p>	DATE: Revised 07-2009	<p align="center"><b>GROUP 51</b></p>
		MODEL: BT3870	
		PAGE 51.56	



SEE PAGE 51.58

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



**RADIO REMOTE CONTROL**

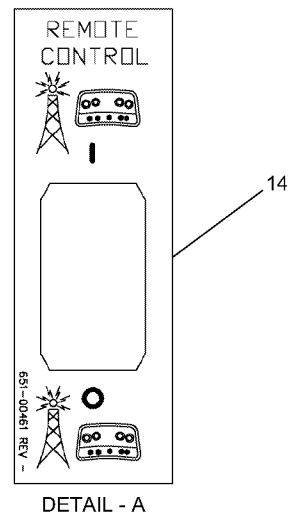
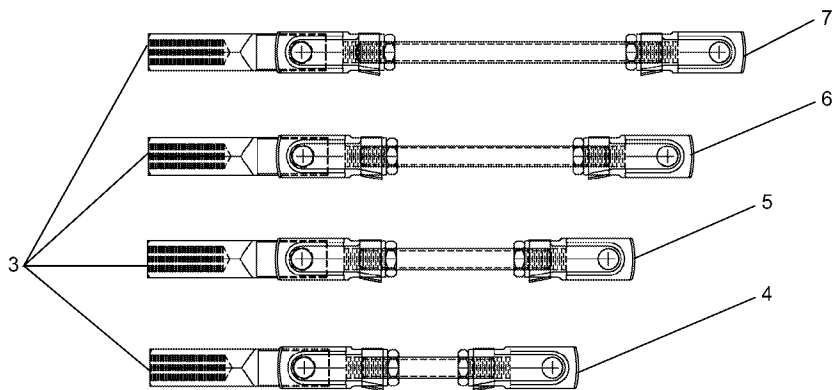
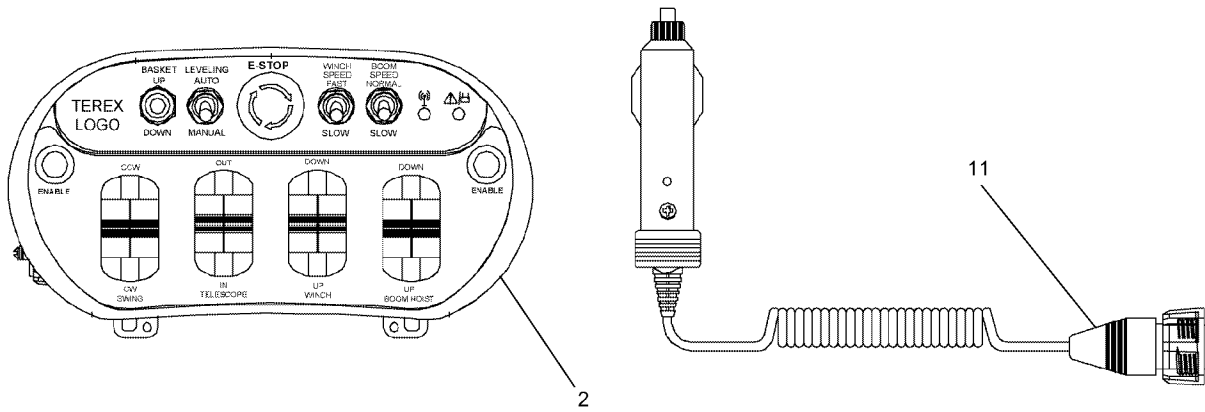
DATE: Revised 07-2009

MODEL: BT3870

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GROUP

**51**



**SEE PAGE 51.57**

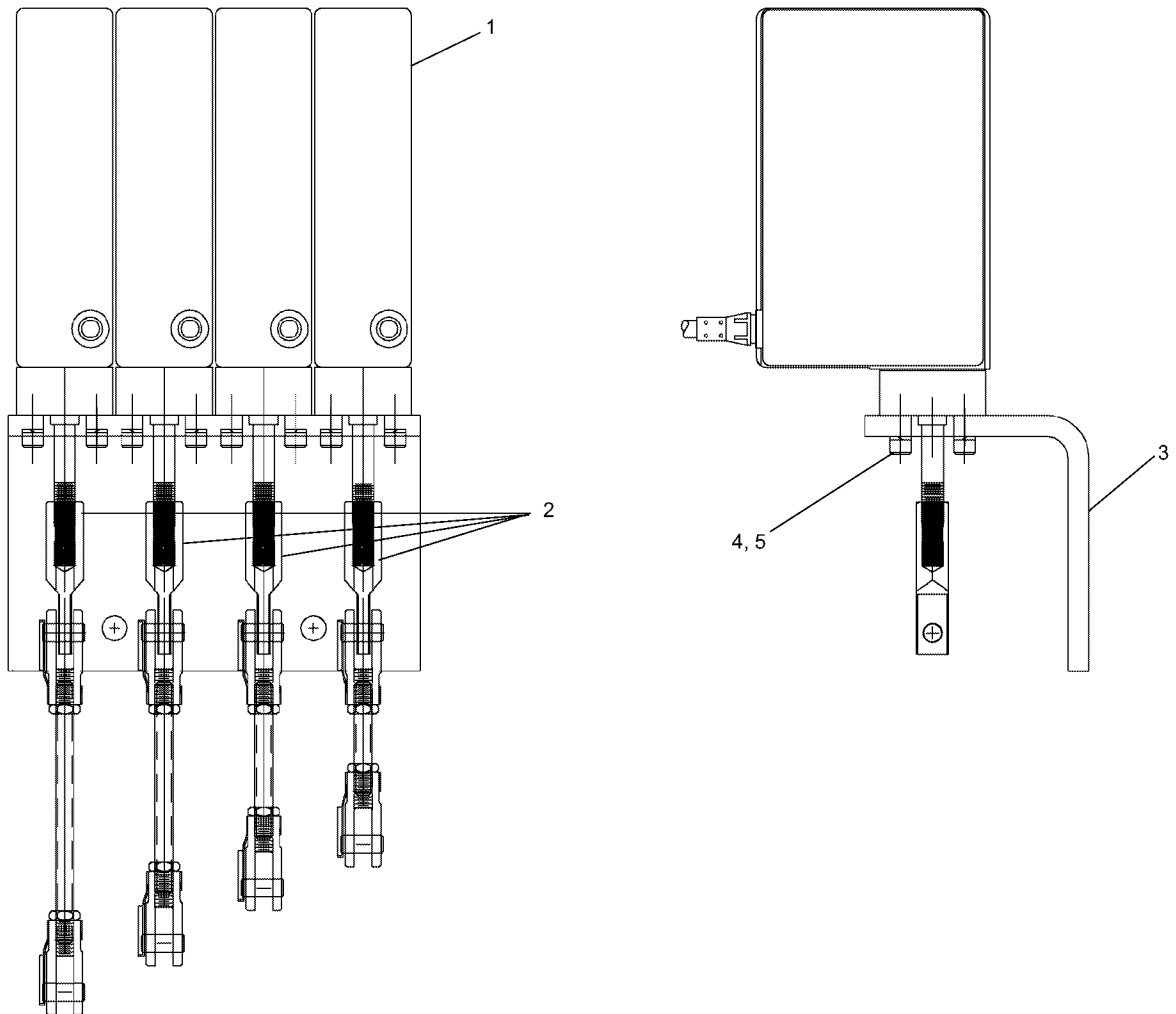
REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	800-10081	Radio Remote Assembly With Bump Throttle (Items 1-29)		14	651-00461	Decal, Remote Control	2
				15	220-00045-21	HHCS, 1/4-20 X 1.50 GR5 Z	2
				16	222-00025-6	Flat Washer 1/4 ZINC PLT	2
1*	800-50059	Kit, Radio Remote Control System	1	17	222-00028-9	Lock Washer 1/4 ZINC PLT	2
2	403-00100	Radio Remote Transmitter	1	18	221-00027-1	HEX Nut 1/4-20 ZINC PLT	2
3	806-00278	Actuator Linkage Kit	1	19	220-02070-21	HHCS, 3/8-16 X 1.50 GR5 Z	2
4	806-00278-1	Actuator Linkages Sub Assy 3.72	1	20	222-00025-8	Flat Washer 3/8 ZINC PLT	2
5	806-00278-2	Actuator Linkages Sub Assy 4.59	1	21	222-00028-11	Lock Washer 3/8 ZINC PLT	2
6	806-00278-3	Actuator Linkages Sub Assy 5.46	1	22	221-00027-3	HEX Nut 3/8-16 ZINC PLT	2
7	806-00278-4	Actuator Linkages Sub Assy 6.32	1	23	220-00073-19	RHMS, 10-24 X 1.25 Phillips DR	4
8	403-00103	Receiver, High Gain Radio Remote	1	24	222-00025-4	Flat Washer #10 ZINC PLT	4
9	403-00105	Actuator Controller	2	25	222-00028-7	Lock Washer #10 ZINC PLT	4
10	403-00106	Wire Harness, Ranger 4 Crane	1	26	221-00035-9	HEX Nut 10-24 ZINC PLT	4
11	403-00107	Cigarette Lighter Charger	1	27	1202-6	RHMS, 10-24 X 0.75	1
12	403-00108	36" Antenna Extension Cable	1	28	1230-6	Keps Nut 10-24 ZINC PLT	1
13	1223-1036	Switch, Rocker ON/OFF	2	29	279-00045	Plastic Sleeve Bearing	4

\* ITEMS NOT SHOWN

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

	<b>RADIO REMOTE CONTROL</b>	DATE: Revised 07-2009	<b>GROUP</b> <b>51</b>
		MODEL: BT3870	
		PAGE 51.58	



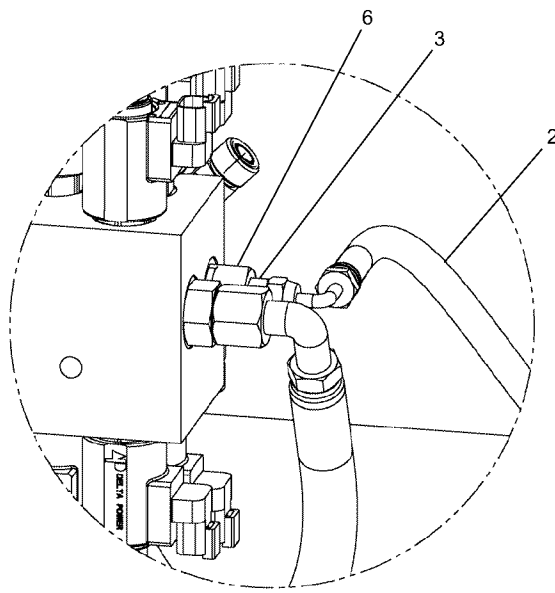
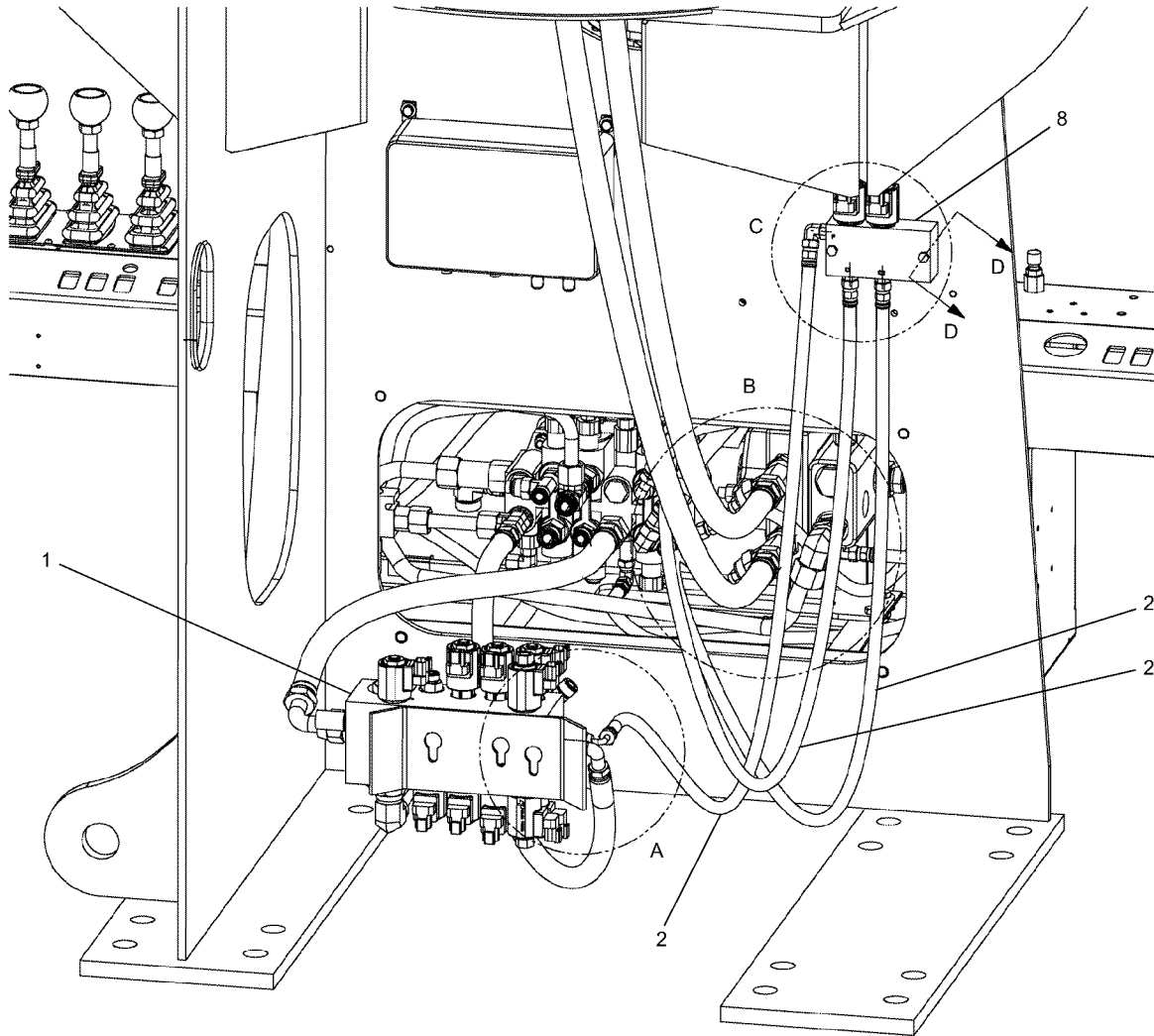


REF	PART NO.	DESCRIPTION	QTY
	403-00101	Radio, Actuator Valve Assembly (Items 1-5)	
1	403-00102	Actuator, 2.3" Travel .....	4
2	806-00278	Actuator Linkage Kit .....	1
3	770-02826	Plate, Actuator MTG BRKT .....	1
4	220-30036-9	SHCS, 1/4-20 X 0.75 ZINC .....	16
5	222-00028-9	Lock Washer 1/4 ZINC .....	16

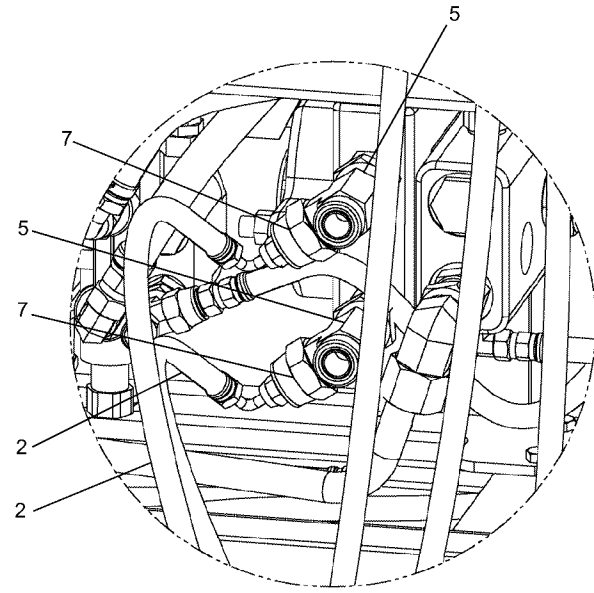
WHEN ORDERING PARTS, SPECIFY MODEL NUMBER, SERIAL NUMBER AND DESCRIPTION OF PARTS REQUIRED

	<b>RADIO REMOTE CONTROL</b> Actuator Valve Assembly	DATE: Revised 07-2009	<b>GROUP</b> <b>51</b>
		MODEL: BT3870	
		PAGE 51.59	





DETAIL A



DETAIL B

**SEE PAGE 51.62**

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



**INCHING WINCH**

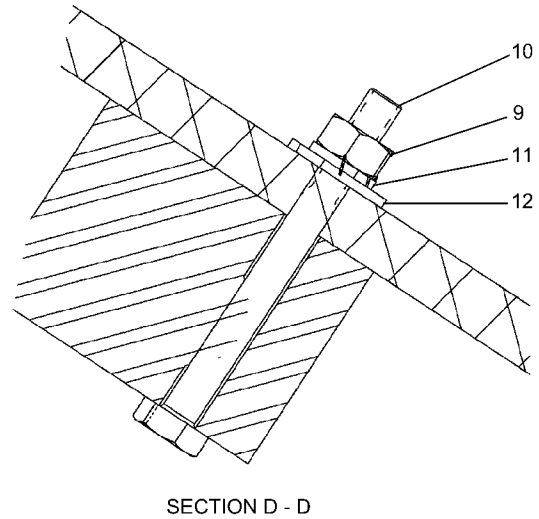
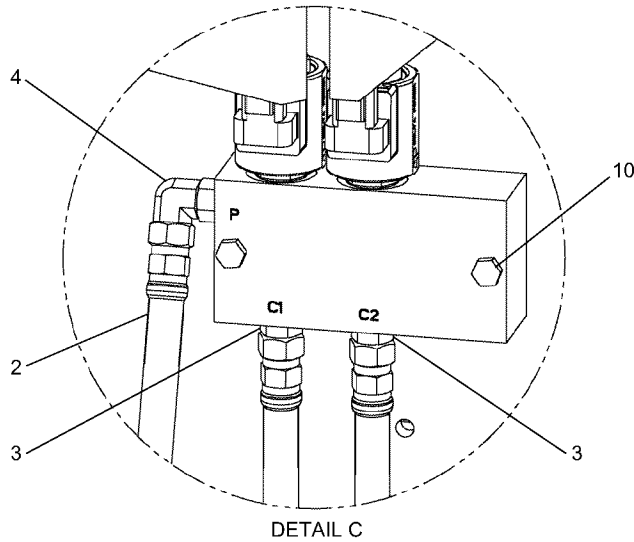
DATE: Revised 07-2009

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**GROUP**

**51**

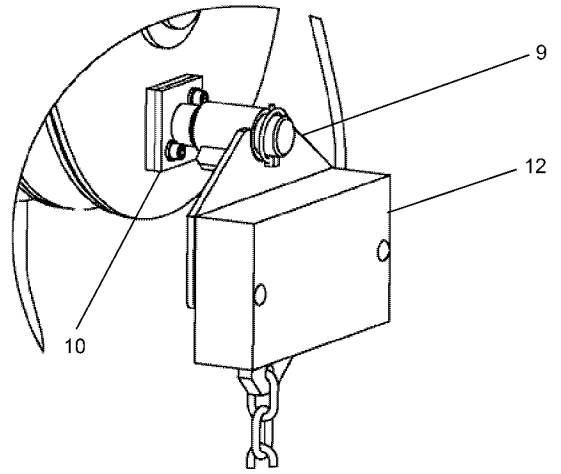
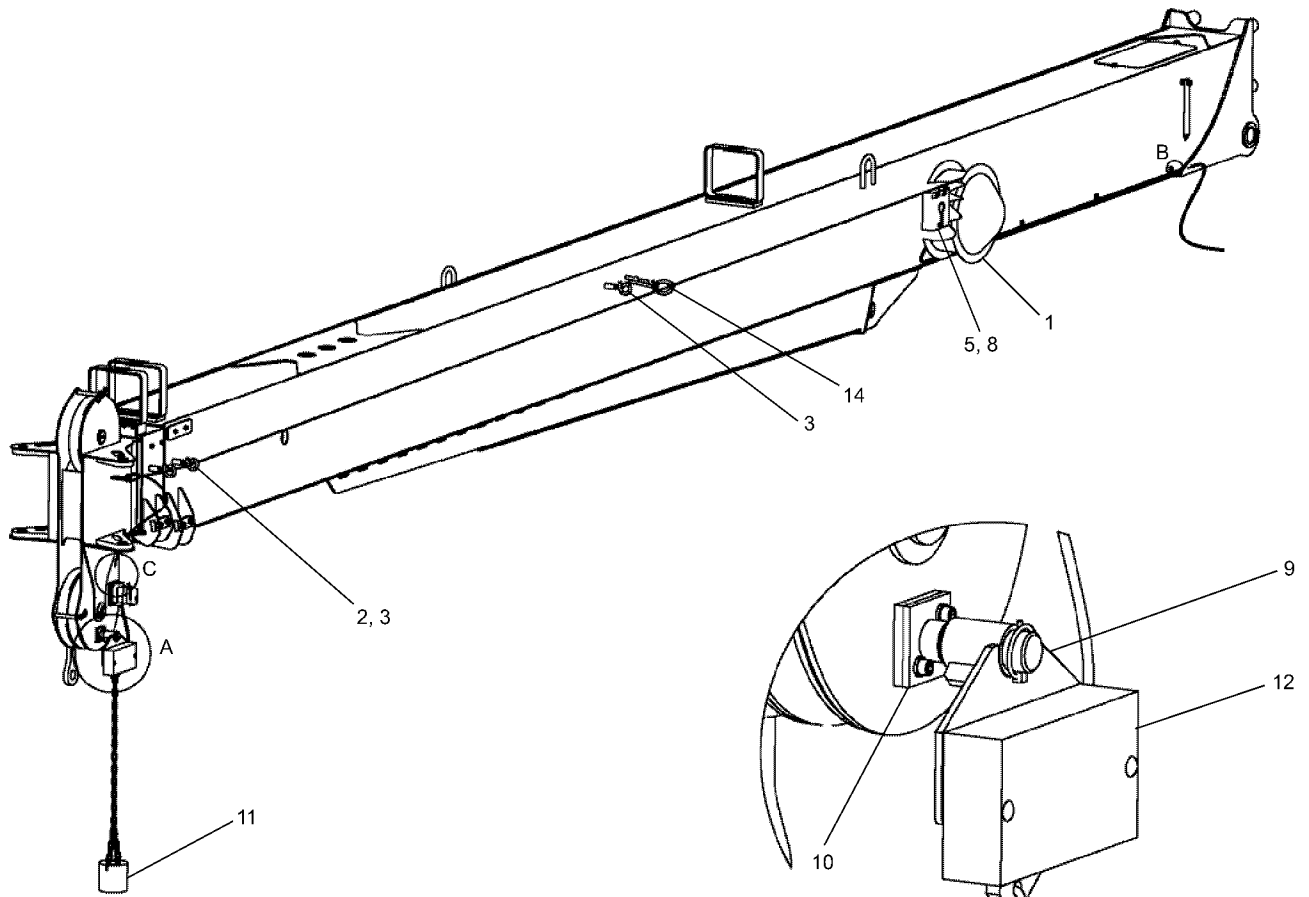


**SEE PAGE 51.61**

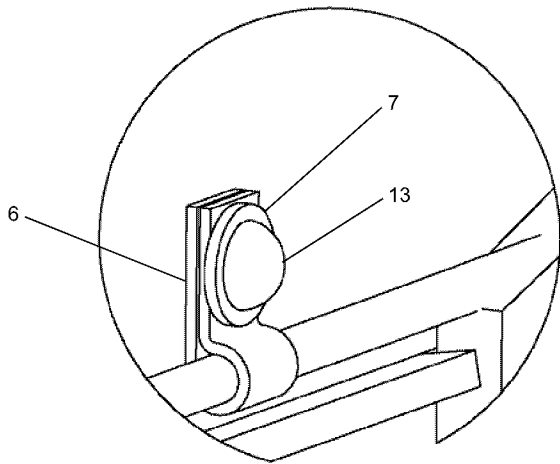
<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	500-01831	<i>Inching Valve Option (Items 1-12)</i>	
1	500-01837-01	HYD Installation, Mainframe-Console.....	REF
2	502-11340	Hose Assembly, Inch Valve.....	3
3	513-20017	STR CONN M#4 OFS X M#4 ORB.....	3
4	514-52003	Elbow 90 STD-M#4 OFS.....	1
5	516-87006	Tee -12.....	2
6	517-00102	Reducer 10 ORB X 4 ORB.....	1
7	519-70034	Reducer Parker #12-4 TRLO-S.....	2
8	551-10147	Valve, Inching.....	1
9	N04-250C000-25	Nut, HEX 0.25-20, ST Z GR5.....	2
10	S01-250CB50-25	Screw, HHCS 0.25-20X2.50, ST Z GR5.....	2
11	W07-250X000-20	Washer, LCK, MED SPLT 0.25, ST Z.....	6
12	WBR-25RX734-20	Washer, FL TYPB-REG 0.25, ST Z.....	2

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

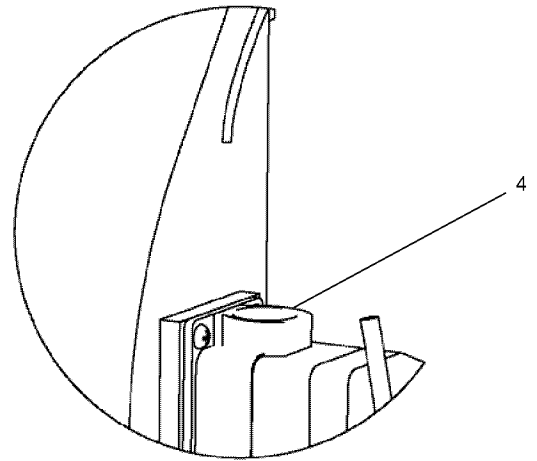
	<p><b>INCHING WINCH</b></p>	DATE: Revised 07-2009	<p><b>GROUP</b> <b>51</b></p>
		MODEL: BT3870	
		PAGE 51.62	



DETAIL A



DETAIL B



DETAIL C

**SEE PAGE 52.2**

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



**GREER RC1510 ASSEMBLY**

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GROUP

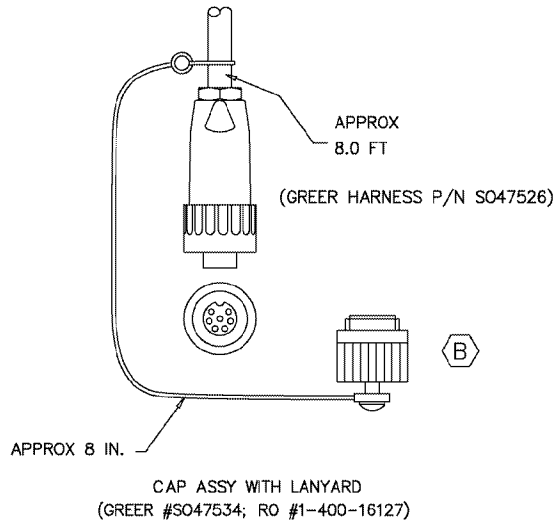
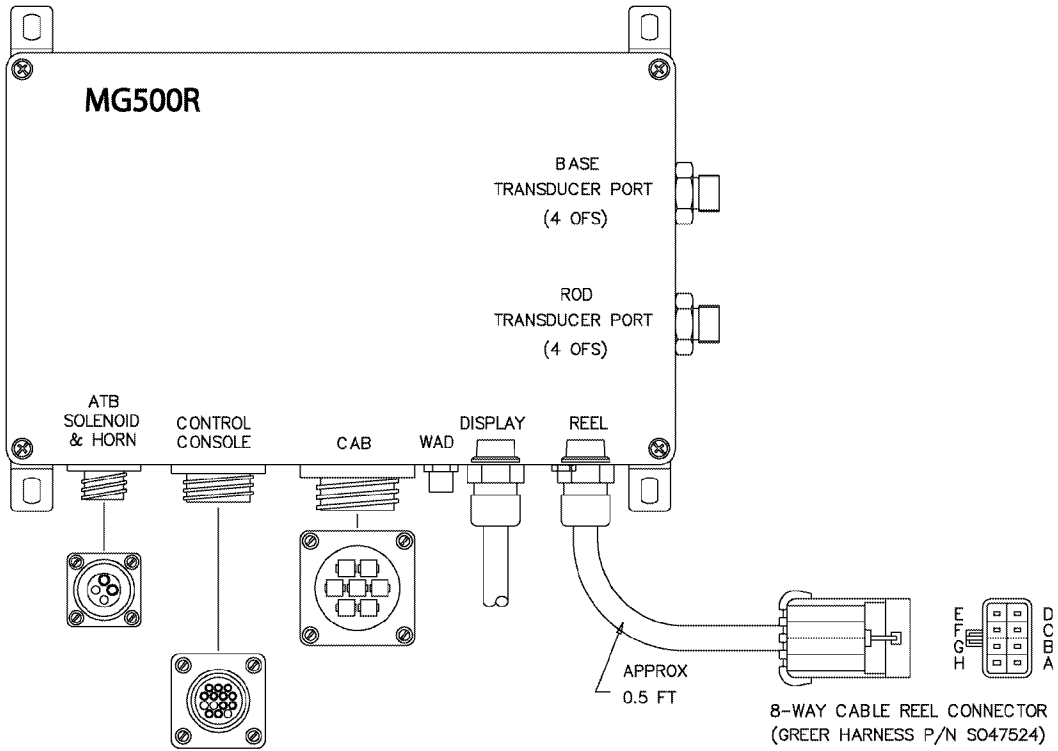
**52**

**SEE PAGE 52.1**

<u>REF</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	695-00192	<i>LMI Installation (Items 1-14)</i>	
1	861-90532	Greer Reel .....	1
2	865-00029	LMI Cable Guide.....	3
3	221-00027-3	HEX Nut 3/8-16 GR5 Zinc .....	3
4	220-00073-5	RHMS 10-24 X 3/8 Phillips Head .....	4
5	220-02070-7	HHCS 3/8-16 X 5/8 GR5 Zinc.....	3
6	201-00141	Clamp 1/4" X 0.40 Hole .....	4
7	222-00025-6	-- .....	4
8	222-00025-8	-- .....	3
9	729-02729	LMI Switch Bracket Weldment.....	1
10	774-00054	LMI Switch Bracket .....	1
11	717 0882	LMI Switch Counterweight w / Chain.....	1
12	861-90434	LMI Switch Assembly .....	1
13	226-00026-2	AL Button Head Rivet 1/4 DiaX0.625 Len .....	4
14	865-00030	LMI Cable Guide.....	1

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

	<p><b>GREER RC1510 ASSEMBLY</b></p>	DATE: Revised 07-2009	<p><b>GROUP</b> <b>52</b></p>
		MODEL: BT3870	
		PAGE 52.2	



REF	PART NO.	DESCRIPTION	QTY
	400-16141	Control Unit Greer (510 RC/WAD)	

NOTE: Return to Manufacturer if component becomes damaged or defective.

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



**GREER UG500R COMPUTER**

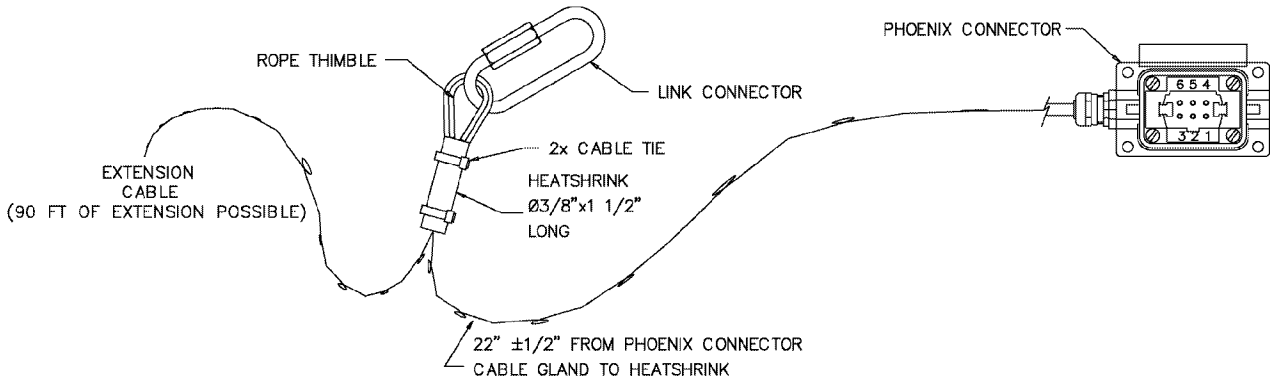
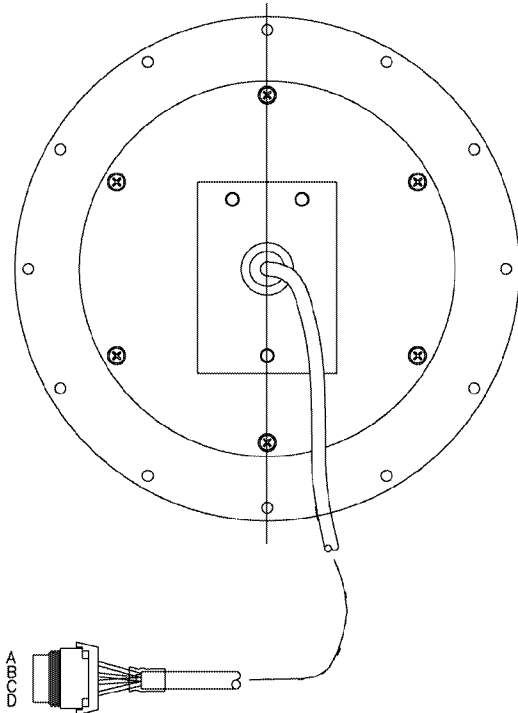
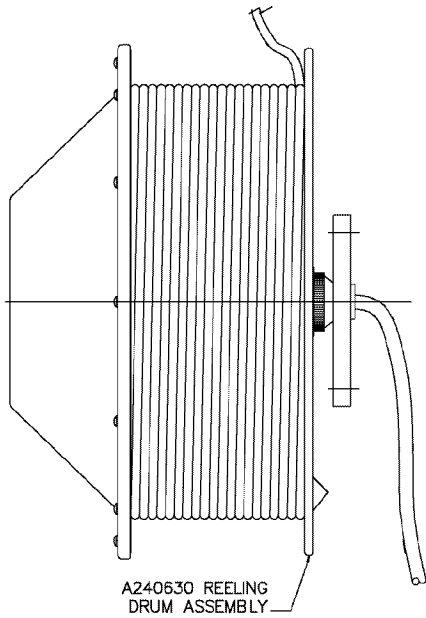
DATE: Revised 07-2009

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FEMALE 8 WAY METRIPAK

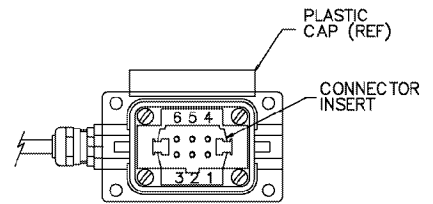
BLACK	A	ATB--FEED
WHITE	B	EXTENSION
GREEN	C	ANGLE
BROWN	D	ATB-SIGNAL
RED	E	POS SUPPLY
BLUE	F	OV
ORANGE	G	SHIELD
YELLOW	H	NC

SIGNAL CABLE

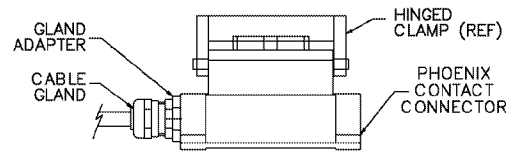
PHOENIX CONTACT CONNECTOR

CORE	5	ATB-SIGNAL
SHIELD		ATB-FEED
	2	NC
	3	NC
	4	NC
	6	NC

EXTENSION REEL CABLE



NOTICE ORIENTATION OF FEMALE INSERT



**SEE PAGE 52.5**

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



**GREER REEL**

DATE: Revised 07-2009

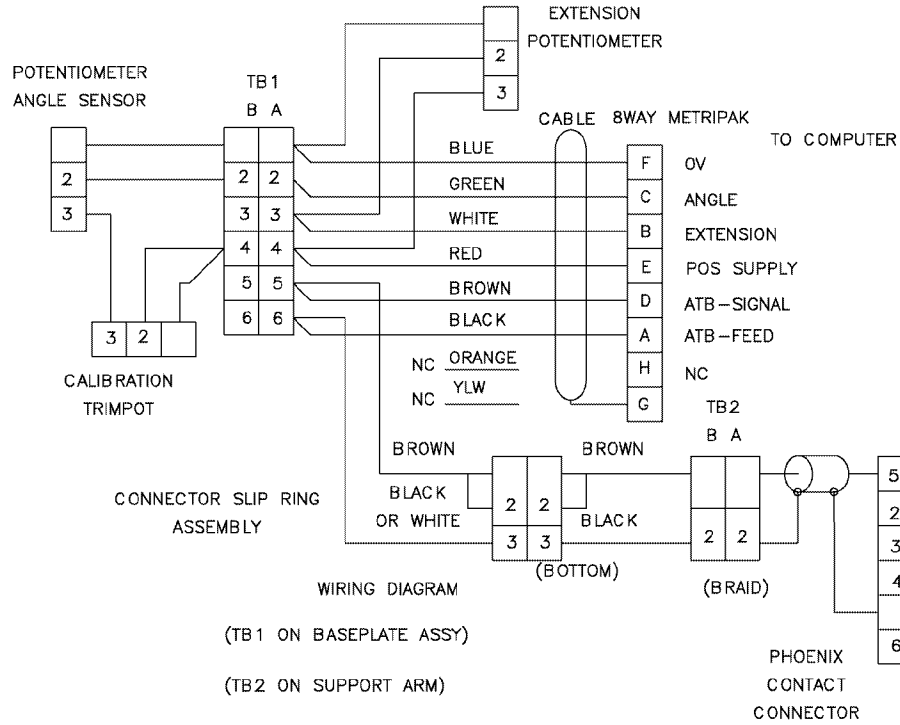
MODEL: BT3870

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INTERNAL TO A240631

## SEE PAGE 52.4

REF	PART NO.	DESCRIPTION	QTY
	861-90532	Reel/A-RCI/ATB	

NOTE: Return to Manufacturer if component becomes damaged or defective.

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



GREER REEL

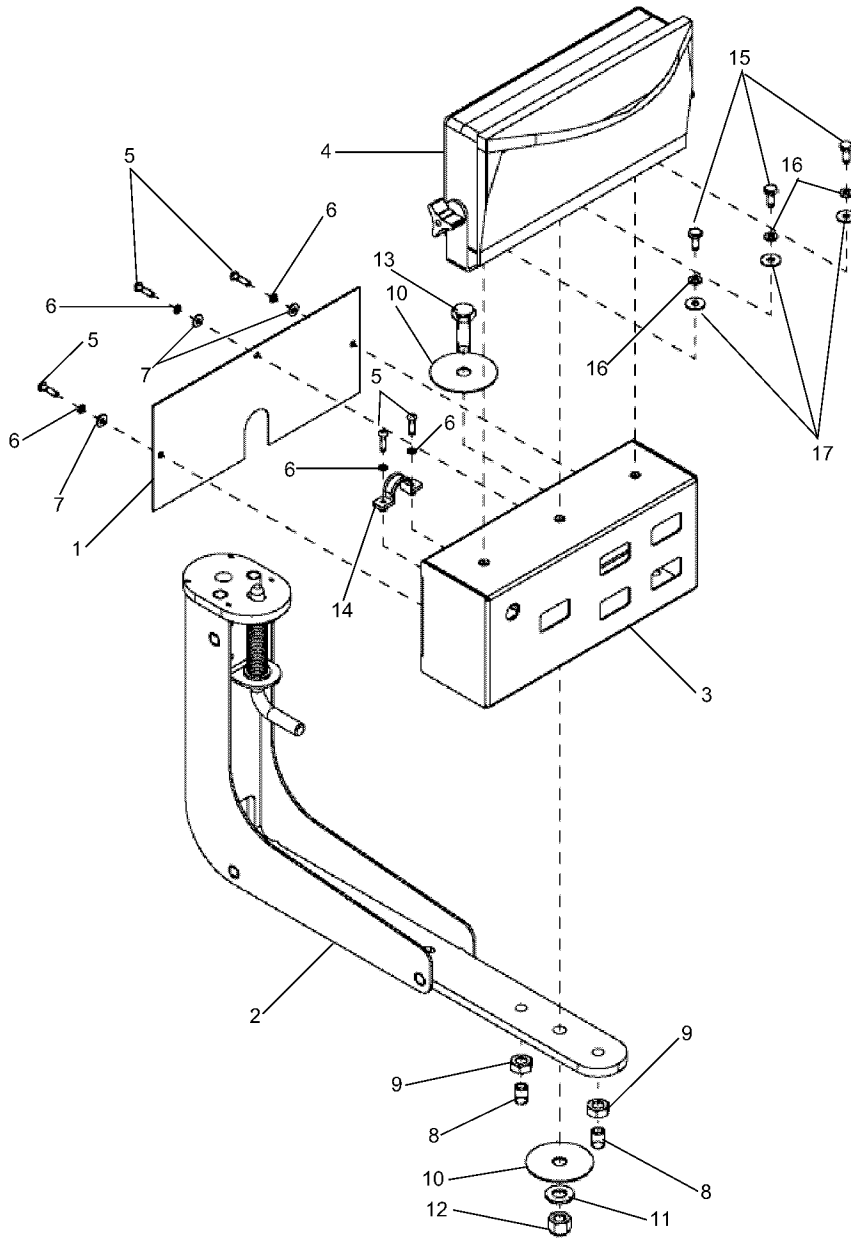
DATE: Revised 07-2009

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REF	PART NO.	DESCRIPTION	QTY	REF	PART NO.	DESCRIPTION	QTY
	695-10021	Switch Box Assy, Outriggers (Items 1-17)		10	WFD-500XB50-20	WSH, FNDR 0.50x2.50, ST Z.....	2
1	402-00047	Cover, Switch Box, Outrigger .....	1	11	WAN-50NX000-20	WSH, FL TYPA-NRW 0.50, ST Z ...	1
2	770-02822	Swing Arm Weldment .....	1	12	NYL-500C000-25	NUT, HEX NYL - INS 0.50-13, ST Z G5.....	1
3	402-00053	Switch Box Install, Outrigger.....	1	13	SHF-500CA50-25	Screw, HHCS FT 0.50-13x1.50, ST Z G 5.....	1
4	400-16137	Display, Boom Angle .....	1	14	201-00264	Strap, Rigid Plastic .....	1
5	SL5-190C750-20	Screw, CREC RND MS 10-24x0.75,ST Z.....	5	15	SHF-250C625-25	Screw,HHCS FT 0.25-20x0.625, ST Z G5 .....	3
6	W07-190X000-20	WSH, LCK, MED SPLT 10, ST Z.....	5	16	W07-250X000-20	WSH, LCK, MED SPLT 0.25, ST Z.3	3
7	WAR-190X000-22	WSH, FL TYPA-REG 10, ST Z.....	3	17	WBR-25RX734-20	WSH, FL TYPB-REG 0.25, ST Z.....	3
8	870-00173-5	Ball, Spring Plunger.....	2				
9	N05-500C000-25	NUT, HEX JAM 0.50-13, ST Z GR5. ....	2				

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



**SWITCH BOX ASSEMBLY -  
GREER DISPLAY**

DATE: Revised 07-2009

MODEL: BT3870

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