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## Revisions

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<th>DESCRIPTION</th>
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<tr>
<td>20111031</td>
<td>77441481</td>
<td>ECN 11624 - Harness change</td>
</tr>
<tr>
<td>20120815</td>
<td>99904973 73734727</td>
<td>ECN 11774 - Added cable guide ECN 11783 - 73734727 was 73734635</td>
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<tr>
<td>20130228</td>
<td>99904973</td>
<td>ECN 11913 - Single Proportional System Available</td>
</tr>
<tr>
<td>20130412</td>
<td>99904973</td>
<td>ECN 11945 - Cable guide changed</td>
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<tr>
<td>20130417</td>
<td>99904973</td>
<td>ECN 11952 - A2B bracket changed</td>
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<td>20130417</td>
<td>99904973</td>
<td>ECN 11959 - Horn controls added</td>
</tr>
<tr>
<td>20131115</td>
<td>77441481 77441537 99905614</td>
<td>Added nailboard and circuit charts Added circuit chart Added horn circuit schematic</td>
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<tr>
<td>20140416</td>
<td>99905068 99904973 99905289 99905088</td>
<td>ECN 12147 – move limit switch, update crane assembly within drawings</td>
</tr>
<tr>
<td>20141001</td>
<td>51722968 71056674</td>
<td>ECN 12216 – changed width of pin boss from 4.88” to 4.75” Added parts breakdown, Greasing Instructions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ECN 12264 – Molub-Alloy 882 was Molub-Alloy 936</td>
</tr>
<tr>
<td>20151110</td>
<td>51723638</td>
<td>ECN 11723-6Delete 91723603 added 91725602</td>
</tr>
<tr>
<td>20151228</td>
<td>51722968</td>
<td>CN 262-counterbalance valve 73054807 was incorrect. Corrected to 73540565.</td>
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<tr>
<td>20160126</td>
<td>99905597</td>
<td>Ecn12052-Drainport changes on Hydraulics</td>
</tr>
<tr>
<td>20160408</td>
<td>99904973</td>
<td>Cn284-Change part number 72532358 to 3.</td>
</tr>
<tr>
<td>20160504</td>
<td>CN277-1</td>
<td>Removed value boxes, added grid lines to capacity chart.</td>
</tr>
<tr>
<td>20160531</td>
<td>INTRODUCTION ADDED PERSONAL FALL /TIE-OFF PROTECTION INFORMATION</td>
<td></td>
</tr>
<tr>
<td>20160609</td>
<td></td>
<td>Fixed a title (wrong heading size)</td>
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<tr>
<td>20170227</td>
<td>77441481</td>
<td>Replaced incorrect harness-tele radio remote series III with correct electrical drawing.</td>
</tr>
<tr>
<td>20170313</td>
<td>70392399</td>
<td>CN519:updated to new grease info.</td>
</tr>
</tbody>
</table>
This volume includes specifications, installation information, and spare parts drawings applicable to your particular crane. For operating, maintenance and repair instructions, see the Telescopic Crane Operation, Maintenance and Repair Manual (IMT part number 99905190).

It is your responsibility to operate and maintain this unit in a manner that will result in the safest working conditions possible. You must be aware of existing Federal, State and Local codes and regulations governing the safe use and maintenance of this IMT crane. The crane was designed and built to meet the standards of ANSI/ASME B30.5, Mobile & Locomotive Cranes. Contact the American Society of Mechanical Engineers (www.asme.org) for more information on ANSI/ASME B30.5.

Misuse of the crane through overloading, abuse, lack of maintenance and unauthorized modifications will void the warranty on any part of the unit subjected to this misuse. No warranty - verbal, written or implied - other than the official, published IMT new machinery and equipment warranty will be valid with this unit.

Throughout the manual, NOTEs, CAUTIONs and WARNINGs are used to draw the attention of personnel. They are defined as follows:

**NOTE**
A NOTE is used to either convey additional information or to provide further emphasis for a previous point.

**CAUTION**
A CAUTION is used when there is the very strong possibility of damage to the equipment or premature equipment failure.

**WARNING**
A WARNING is used when there is the potential for personal injury or death.

For a safe work environment, treat this equipment with respect and service it regularly.
Personal Fall/Tie-Off Protection

When using IMT products for the purpose of personal fall protection, users shall read, understand, and follow the personal fall protection provisions of OSHA 29 CFR 1926.1423, paragraphs (g) Anchorage criteria; (j) Anchoring to the load line; (k) Training. Note OSHA sections, 1926.502(d)(15)* and 1926.502(e)(2)*, are cross-referenced in this section and is up to the user to read, understand, and follow these regulations. The above-referenced provisions within OSHA address specific personal fall protection requirements; however, users of IMT products are required to read, understand and follow all OSHA, industry, workplace, and employer-created regulations governing the use of this product, which includes, but is not limited to, 29 CFR 1926.1423. The user is also required to read, understand, and follow IMT’s warnings and instructions. Nothing within this letter should be interpreted to limit or excuse non-compliance with the above requirements in their entirety.

When using IMT products with personal fall protection as described above, users shall utilize a two-part line with the snatch block installed on the winch load line. The personal fall protection shall be attached to the hook on the snatch block. The personal fall protection device shall be connected to the hook on the snatch block only if the hook has the original safety latch on the hook. At no time shall anyone use the hook on the snatch block for purposes of attaching personal fall protection if the safety latch is not original to the hook, or is missing or damaged, and/or if the safety latch is not properly functioning. At no time shall anyone use the winch wire-rope as a tie-off point for personal fall protection. The failure to follow the above regulations and strict adherence to all applicable OSHA, industry, workplace, employer-created, and IMT warnings and instructions can lead to personal injury or death.

These OSHA regulations can be found at: https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=67

* In order to use this method, the hook must have a safety latch, the crane must be capable of supporting 5,000 pounds (refer to the load chart affixed to the crane), limit the fall to less than 6-feet, and not allow a swinging fall. Crane hooks should be used only where there is no other suitable anchor point.
# Model 12000 25' Specifications

## In This Chapter

- Model 12000 25' Specifications ................................................ 7
- 12000-25' Minimum Chassis Specifications .............................. 9
- Dimensional Drawings .............................................................. 10
- 25' 12000 Crane Capacity ........................................................ 11

## General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane Rating (Crane rating (ft-lb) is the rated load (lb) multiplied by the respective distance (ft) from centerline of rotation with all extensions retracted and lower boom in horizontal position.)</td>
<td>80,000 ft-lb (11.1 tm)</td>
</tr>
<tr>
<td>Horizontal Reach - Flip Sheave Up (From centerline of rotation)</td>
<td>24'-5&quot; (7.4 m)</td>
</tr>
<tr>
<td>Horizontal Reach - Flip Sheave Down (From centerline of rotation)</td>
<td>24'-0&quot; (7.3 m)</td>
</tr>
<tr>
<td>Hydraulic Extensions (2)</td>
<td>75&quot; &amp; 75&quot; (190.5 cm &amp; 190.5 cm)</td>
</tr>
<tr>
<td>Lifting Height (From base of crane)</td>
<td>26'-3&quot; (8.0 m)</td>
</tr>
<tr>
<td>Crane Weight</td>
<td>3,050 lb (1,384 kg)</td>
</tr>
<tr>
<td>Crane Storage Height</td>
<td>46.3&quot; (117.6 cm)</td>
</tr>
<tr>
<td>Mounting Space Required (Crane base)</td>
<td>24&quot; x 25&quot; (61.0 cm x 63.5 cm)</td>
</tr>
<tr>
<td>Optimum Pump Capacity</td>
<td>10 -12 U.S gpm (37.9 - 45.4 l/min)</td>
</tr>
<tr>
<td>System Operating Pressure</td>
<td>3200 psi (221 bar)</td>
</tr>
<tr>
<td>Center of Gravity</td>
<td></td>
</tr>
<tr>
<td>Horizontal from Centerline of Rotation</td>
<td>46.3&quot; (117.3 cm)</td>
</tr>
<tr>
<td>Vertical from Bottom of Crane Base</td>
<td>21.38&quot; (54.3 cm)</td>
</tr>
<tr>
<td>Tie-Down Bolt Pattern (8 bolts)</td>
<td>11.5&quot; x 18.0&quot; (29.2 cm x 45.7 cm)</td>
</tr>
<tr>
<td>Rotational Torque</td>
<td>11,000 ft-lb (1.5 tm)</td>
</tr>
</tbody>
</table>

## Performance Characteristics

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specifications</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotation</td>
<td>400° (7.0 rad.)</td>
<td>30 seconds</td>
</tr>
<tr>
<td>Lower Boom Elevation</td>
<td>-10° to +80° (-0.17 to +1.4 rad)</td>
<td>12 seconds to raise or lower</td>
</tr>
<tr>
<td>Extension Cylinders (2)</td>
<td>102&quot; &amp; 102&quot; (259 cm &amp; 259 cm)</td>
<td>33 seconds to extend or retract</td>
</tr>
<tr>
<td>Winch Speed (single line)</td>
<td></td>
<td>60 feet per minute</td>
</tr>
</tbody>
</table>
POWER SOURCE

Hydraulic power is provided by an integral mounted hydraulic pump and PTO application. Other standard power sources may be used. Minimum power required is 23.5 horsepower based on 10-12 GPM (37.9 - 45.4 liters/min) at 3200 PSI (221 bar).

CYLINDER HOLDING VALVES

The holding sides of all cylinders are equipped with integral-mounted counterbalance valves or load-holding check valves to prevent sudden cylinder collapse in case of hose failure.

ROTATION SYSTEM

Rotation of the crane is accomplished through a turntable gear bearing powered by a high-torque hydraulic motor through worm gear reduction. Standard rotation is 400° (6.98 rad).

HYDRAULIC SYSTEM (PTO DRIVEN)

The hydraulic system is an open-centered, full-pressure system that requires 10-12 GPM (37.9 - 45.4 liters/min.) optimum oil flow at 3200 psi (221 bar). It is equipped with a four-section, stack-type, electric, remote control valve with an RF remote-control system with a 40' (9.1 m) radio elimination cable. The system includes a separate hydraulic oil reservoir, suction line filter, return-line filter and control valve.

OVERLOAD PROTECTION SYSTEM

Overloading of the crane is prevented by the overload protection system. A pressure transducer mounted on the lower cylinder senses overload conditions. When in an overload situation, the winch-up, extension-out, and boom-down functions are stopped. To relieve the situation, raise the boom, retract the extensions, or lower the winch.

WINCH

The 7,000 lb (3,175 kg) planetary winch is powered using a high-torque hydraulic motor. The lifting capacity of the winch is 7,000 lb (3,175 kg) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The winch is equipped with 100 ft (30.5 m) of 1/2" (1.3 cm) 6X31 wire rope. A compact, anti-two block device is included to prevent the lower block or hook assembly from coming in contact with the boom sheave assembly. The winch meets ANSI B30.5 standards.
12000-25' Minimum Chassis Specifications

<table>
<thead>
<tr>
<th>CRANE MODEL</th>
<th>12000 - 25'</th>
</tr>
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<tbody>
<tr>
<td>CHASSIS STYLE</td>
<td>Conventional Cab</td>
</tr>
<tr>
<td>BODY STYLE</td>
<td>Dominator™ III or Dominator™ IV</td>
</tr>
</tbody>
</table>
| CAB-TO-AXLE (1) | 108" (274 cm) (Dominator III)  
120 - 154" (305 - 391 cm) (Dominator IV) |
| RESISTANCE TO BENDING MOMENT | 1,700,000 in-lb (195,861 kg-m) |
| FRAME SECTION MODULUS | 14.2 cubic inches (232.7 cc) |
| RATED MOMENT | 80,000 ft-lb (11,060 kg-m) |
| GROSS VEHICLE WEIGHT RATING (2) | 33,000 lb (14,970 kg) minimum |

NOTES:

1. The Cab to Axle (CA) dimension varies based on the configuration of the body, crane, and auxiliary equipment including welder decks. Make sure the CA is free and clear from obstructions everywhere except between the frame rails.

2. The Gross Vehicle Weight Rating (GVW) is a minimum guideline. Contact IMT if you have questions regarding your particular installation.

3. In addition to these specifications, heavy duty electrical and cooling systems are required. It is recommended that the vehicle be equipped with an engine tachometer, auxiliary brake lock, and power steering.

4. Weight distribution calculations are required to determine final axle loading.

5. All chassis, crane and body combinations must be stability-tested to ensure stability per ANSI B30.5

Iowa Mold Tooling Co., Inc. reserves the right to change specifications and design without notice.
Dimensional Drawings

Dimensions for 25' 12000 and 14000 Crane

- 4'-9" (1.5 m)
- 11'-6" (3.5 m) (Fully retracted)
- 26'-3" (8.0 m) (Fully extended)
- 13'-11" (4.2 m) (Fully retracted)
- 2'-6" (0.8 m)
- 11'-6" (3.5 m) (Fully retracted)
- 24'-0" (7.3 m) (Fully extended)
Chapter 2 Specifications

11"

(29 cm)

21"

(53 cm)

18"

(46 cm)

8 x Ø0.875 THRU 1-8 UNC-2B

RADIUS 20" (51 cm)
SWING CLEARANCE

MOUNTING HOLE PATTERN
(FROM BASE OF CRANE)

28.3"

(72 cm)

31.8"

(80.7 cm)

46.3"

(117.6 cm)

10.2"

(25.8 cm)

49.3"

(125.2 cm)

34.9" (88.6 cm)

156.7" (398.0 cm)

51.8" (131.4 cm)

CENTER OF GRAVITY

18" (46 cm)

11.5"

(29 cm)

11.5"

(29 cm)

21"

(53 cm)

21"

(53 cm)

15.2" (38.6 cm)

8.1" (20.6 cm)

28.3"

(72 cm)

TOP VIEW
25' 12000 Crane Capacity

25' 12000 HYDRAULIC CAPACITY CHART

- Maximum one-part line weight is 7000 lb (3175 kg).
- The weight of load-handling devices is part of the load-lifted and must be deducted from the rated capacity.

IOWA MOLD TOOLING CO., INC.
BOX 189, GARNER, IA 50438-0189
TEL: 641-923-3711  FAX: 641-923-2424  70399110

WIRE ROPE DATA:
DIAETR: 0.50, NON-ROTATION RESISTANT, MINIMUM BREAKING LOAD: 26600.
CHAPTER 3

Crane Reference

In This Chapter

Greasing Instructions ............................................................... 14
12000 25-foot Crane Recommended Spare Parts List ............. 16
Installation Introduction............................................................. 17
Telescopic Crane Orientation ................................................... 21
Crane Controls ........................................................................... 21
Greasing Instructions

Different lubricants are required for different sections of your crane. Contact your lubricant supplier for specific product information. Follow the grease and lubricant specifications and intervals listed in this manual for best results.

Crane grease zerks must be greased on a weekly basis during normal operating conditions. Under severe operating conditions the zerks must be greased more frequently. Each grease zerk is marked with a decal, “Grease Weekly”, as shown. Rotate the worm gear bearing when greasing the worm gear bearing grease zerks.

Crane worm gear bearing teeth must be lubricated weekly with Molub-Alloy 882 Heavy or equivalent, applied with a grease gun or brush. Cover all teeth with grease and leave no exposed metal surfaces showing.

Weekly, remove cover and lubricate with IMT recommended open-gear compound while rotating crane. IMT part number: 89086244
Worm Gear Grease Zerks

NOTE:
Remove guard. Grease worm gear teeth with Molub-Alloy 882 or equivalent. Spray or brush on.

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>LUBRICANT</th>
<th>APPLICATION METHOD</th>
<th>FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base - Turntable Bearing Grease Zerk</td>
<td>Extreme Pressure Lithium Grease such as Shell Alvania 2EP, Shell Retinax &quot;A&quot;, Mobilgrease XHP 462, Cenex ML 365, Xtreme True-Flo MP EP2 Lithium Grease or equivalent.</td>
<td>Apply with hand or pneumatic pressure grease gun.</td>
<td>Weekly</td>
</tr>
<tr>
<td>Flip Sheave Pin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Snatch Block Pin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worm Gear Bearings Grease Zerks (*Rotate crane while greasing)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotation Worm Gear Teeth</td>
<td>Molub-Alloy 882 Heavy or equivalent</td>
<td>Brush or spray on.</td>
<td>Weekly</td>
</tr>
</tbody>
</table>
# 12000 25-foot Crane Recommended Spare Parts List

This parts list is intended to provide the user with a stock of parts sufficient to keep the unit operating with the minimal down-time waiting for parts, but it does not indicate these items will fail within a year. In addition, there may be parts failures not covered by this list. Parts not listed are considered as not being Critical or Normal Wear items during the first year of operations.

<table>
<thead>
<tr>
<th>BASE &amp; MAST ASSEMBLY</th>
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<tbody>
<tr>
<td>73511254</td>
<td>HYDRAULIC MOTOR</td>
</tr>
<tr>
<td>72601949</td>
<td>CAP SCREW 0.50-13 X 1.25 SHZC</td>
</tr>
<tr>
<td>72601295</td>
<td>CAP SCREW .75-10 X 3.50 HEX HEAD GR8 Z</td>
</tr>
<tr>
<td>72601629</td>
<td>CAP SCREW .75-10 X 4.00 HEX HEAD GR8 Z</td>
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</table>

<table>
<thead>
<tr>
<th>BOOM ASSEMBLY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>60030336</td>
<td>WEAR PAD-RC</td>
</tr>
<tr>
<td>60030438</td>
<td>WEAR PAD-ROUND</td>
</tr>
<tr>
<td>60030421</td>
<td>WEAR PAD-RC</td>
</tr>
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<td>60030425</td>
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<td>60030427</td>
<td>WEAR PAD-ROUND</td>
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<tr>
<td>60030442</td>
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<table>
<thead>
<tr>
<th>ANTI-TWO-BLOCK ASSEMBLY</th>
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<tbody>
<tr>
<td>77041863</td>
<td>LIMIT SWITCH</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CRANE &amp; WINCH ASSEMBLY</th>
<th></th>
</tr>
</thead>
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Installation Introduction

GENERAL

This section contains instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure that the chassis is ready to receive the crane (see the Installation Section of the IMT Telescopic Crane Operation & Safety Manual, 99905190).

Reinforce the chassis frame, as necessary, and install the PTO and pump.

Each installation may vary in components used. It is important to use hoses of proper length, pumps of correct size, and PTO’s of adequate speed. Study the applicable installation kit in the parts section before attempting any installation.

CRANE INSTALLATION

In addition to meeting Minimum Chassis Specifications, there must be sufficient room to mounting the crane and the platform must be strong enough to support the crane and rated load. Install the crane only on an IMT designed and approved truck body. The body must be designed to sustain the forces imposed by the crane when lifting the full rated load. In addition, an IMT designed body is designed to take full advantage of the standard reservoir placement. This reservoir is installed in the cargo area of the body. Before attempting to install the crane, the body must be installed.
Dom III - IV - 12000 - 14000 Crane Installation Kit (99905068)

NOTES (SEE REFERENCE NUMBER IN BOX):

1. INSTALL THE LEVEL INDICATOR (72042097) PARALLEL TO THE DOOR REINFORCEMENTS.

2. TORQUE MOUNTING BOLTS TO 680 FT-LB (94 KG-M). (8 PLACES) USE THE SUPPLIED 3" (7.6 cm) BOLTS WITH A CRANE BOX TOP PLATE THICKNESS OF 1/2" TO 5/8" (1.3 cm TO 1.6 cm) ONLY. DETERMINE THE THICKNESS OF THE CRANE BOX TOP PLATE PRIOR TO MOUNTING. IF DIFFERENT LENGTH BOLTS ARE REQUIRED, THEY MUST BE 1-8, GRADE 8, ZINC COATED, OF PROPER LENGTH. FAILURE TO USE PROPER LENGTH BOLTS MAY CAUSE THE BOLTS UNDER THE CRANE SWING BEARING TO BOTTOM OUT BEFORE TORQUING. INSURE A MINIMUM OF 1-1/2" (3.8 cm) THREAD ENGAGEMENT.
### 99905068 Parts

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<tr>
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REV B 20110920
Additional Installation Components, Non-IMT Body (93713748)

Chassis Wiring Harness (77441476 / 99905212)

- TO RECOMMENDED SWITCHED 12V POWER (NOT TO EXCEED 7 AMPS)
- TO RECOMMENDED 12V CRANE HOURMETER (12V LATCHING SIGNAL WHEN LINK IS ESTABLISHED BETWEEN RADIO AND TRANSMITTER)
- TO RECOMMENDED OEM 12V SPEED CONTROL
- TO BATTERY SPEED
- TO BATTERY GROUND
- TO RECOMMENDED OEM 12V ENGINE START
- TO RECOMMENDED ENGINE KILL OPTION
- TO RECOMMENDED SELECTOR SOLENOID
- IN-LINE 5A FUSE
- IN-LINE 15A FUSE

- BOOM FLOOD LIGHTS
- CRANE HOURMETER
- ENGINE SPEED
- GROUND
- COMPRESSOR ON
- ENGINE START
- POWER
- SIGNAL POWER
- STOW
- TO RECOMMENDED COMPRESSOR ON (12V LATCHING SIGNAL)
- TO RECOMMENDED OEM 12V ENGINE START (12V MOMENTARY SIGNAL)
- TO RECOMMENDED 12V CRANE HOURMETER (12V LATCHING SIGNAL WHEN LINK IS ESTABLISHED BETWEEN RADIO AND TRANSMITTER)
- TO RECOMMENDED OEM 12V SPEED CONTROL
- TO BATTERY GROUND
- TO RECOMMENDED OEM 12V ENGINE START
- TO RECOMMENDED ENGINE KILL OPTION
- TO RECOMMENDED SELECTOR SOLENOID
- IN-LINE 5A FUSE
- IN-LINE 15A FUSE

Filter (10 micron) (73052091)

Used on ship-out IMT telescopic cranes.
Telescopic Crane Orientation

When an IMT telescopic crane is not factory-installed on a body, the crane is packed with the boom oriented as it is built on a test stand to facilitate handling. Install the crane on the body with boom pointing backward. Once the crane is bolted down, it can be rotated 180° (3.14 radians) to the boom rest.

Crane Controls

IMT’s telescopic cranes are controlled by radio remote controls. See the *Telescopic Crane Radio Remote System* manual, IMT # 99905114, for complete details on the radio remote system.
# In This Chapter

<table>
<thead>
<tr>
<th>Parts Information</th>
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<tbody>
<tr>
<td>Base &amp; Mast Assembly, Test Stand (99904973)</td>
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<tr>
<td>Base &amp; Mast Assembly, Truck Mount (99904973)</td>
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<td>Boom Assembly (99904973)</td>
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<td>Valve Assembly</td>
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<td>Winch &amp; Anti-Two-Block Assembly</td>
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<td>Crane &amp; Winch Assembly (99904973)</td>
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<td>Option - Boom Tip Light Kit (99905289)</td>
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Parts Information

GENERAL

This section contains the exploded parts drawings and accompanying parts lists for the assemblies used on this crane. These drawings are intended to be used in conjunction with the instructions found in the maintenance and repair manuals for this crane family. For optional equipment such as winches and remote controls, refer to the appropriate service manual.

⚠️ WARNING

Do not attempt to repair any component without reading the information contained in the repair section. Pay particular attention to statements marked Warning, Caution or Note in that section. Failure to comply with these instructions may result in damage to the equipment, personal injury or death.

CRANE IDENTIFICATION

Every IMT crane has an identification placard (see figure). This placard is attached to the inner boom, mast, or crane base. When ordering parts, communicating warranty information, or referring to the unit in correspondence, always include the serial number and model numbers. Address all inquiries to your authorized IMT distributor or to:

Iowa Mold Tooling Co., Inc.
Box 189, Garner, IA 50438-0189
Telephone: 641-923-3711
Technical Support Fax: 641-923-2424
CYLINDER IDENTIFICATION

To insure proper replacement parts are received, it is necessary to specify the complete number/letter sequence for any part requested. Part numbers may be cross checked by comparing the stamped identification on the cylinder case (See figure below) against the information contained in the service manual. You must include the part number stamped on the cylinder case when ordering parts.

WELDMENT IDENTIFICATION

Each of the major weldments - base, mast, inner boom, outer boom, extension boom and stabilizer weldments bear a stamped part number. Any time a major weldment is replaced, you must specify the complete part number as stamped on the weldment. The locations of the part numbers are shown in the Crane Reference Section.

ORDERING REPAIR PARTS

When ordering replacement parts:

1 Give the model number of the unit.
2 Give the serial number of the unit.
3 Specify the complete part number. When ordering cylinder parts, or one of the main weldments, always give the stamped part number.
4 Give a complete description of the part.
5 Specify the quantity required.
Base & Mast Assembly-Truck Mount (99904973)
Effective 03/21/16

NOTES:
1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
2. APPLY BLUE THREAD Locker.
3. APPLY GEAR LUBE ON TEETH GEAR.
4. BASE AND MAST ASSEMBLY AS SHOWN AS MOUNTED ON TRUCK.
5. TORQUE TO 280 FT-LB.
6. TORQUE TO 80 FT-LB.

99904973-3 PARTS LIST Effective 03/21/16

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REV. V 20160408
Base & Mast Assembly – Test Stand
(99904973) Effective 03/21/16

NOTES:
1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON TEETH GEAR.
4. BASE & MAST ASSEMBLY AS SHOWN AS MOUNTED ON TEST STAND.
5. TORQUE TO 280 FT-LB.
6. TORQUE TO 80 FT-LB.

99904973-4 PARTS LIST EFFECTIVE 03/21/16

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REV. V 20160413
NOTES:

1. INSTALL EXTENSION CYLINDER FIRST. ADD RETAINERS NEXT, INSTALL WEAR PADS LAST.

2. TORQUE TO 280 FT-LB. USE BLUE THREAD LOCKER.
### 99904973-5 Parts List Effective 03/21/16

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REV. V 20160413
Valve Assembly – Fully Proportional (99904973) Effective 03/21/16

![Valve Assembly Diagram]

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REV. V 20160413
Valve Assembly – Single Proportional
(99904973) Effective 03/21/16
Winch & Anti-Two-Block Assembly (99904973)
Effective 03/21/16

NOTE:
ITEM #123, CASE DRAIN.

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REV. V  20160413
Crane & Winch Assembly (99904973) Effective 03/21/16

NOTES:
1. APPLY ANTI-SEEZ TO BOOM AND CYLINDER MOUNTING PINS. DO NOT ALLOW ANTI-SEEZ TO COME IN CONTACT WITH BOOM OR CYLINDER PIN BOSS BEARING.
2. IF REQUIRED, USE 72063038 OR 72063039, MACHNY BUSHINGS, BETWEEN MAST AND LOWER BOOM.

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REV. V 20160413
# Flip Sheave Assembly (99904973) Effective 03/21/16

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REV. V 20160413
Base & Mast Assembly, Test Stand (99904973)

(See Parts Lift for Effectivity Dates)

NOTE: This base and mast assembly is shown as if it were mounted on a test stand.

NOTES (SEE REFERENCE NUMBER IN BOX):
1. TORQUE TO 280 FT-LB (38.7 KG-M)
2. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
3. APPLY BLUE THREAD LOCKER.
4. APPLY GEAR LUBE ON GEAR TEETH.
5. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
6. PORT A
7. PORT B
8. TORQUE TO 80 FT-LB (11.1 KG-M)
9. GREASE ZERK PLUG
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REV T 20150911
Base & Mast Assembly, Test Stand (99904973)
(See Parts Lift for Effectivity Dates)

NOTE: This base and mast assembly is shown as it if it were mounted on a test stand.

NOTES (SEE REFERENCE NUMBER IN BOX):
1. TORQUE TO 280 FT-LB (38.7 KG-M)
2. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
3. APPLY BLUE THREAD LOCKER.
4. APPLY GEAR LUBE ON GEAR TEETH.
5. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
6. PORT A
7. PORT B
8. TORQUE TO 80 FT-LB (11.1 KG-M)
9. GREASE ZERK PLUG
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REV T 20150911
Base & Mast Assembly, Truck Mount
(99904973) (See Parts List for Effectivity Dates)

NOTE: This base and mast assembly is shown as it if it were mounted on a truck.

NOTES (SEE REFERENCE NUMBER IN BOX):
1. TORQUE TO 280 FT-LB (38.7 KG-M)
2. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
3. APPLY BLUE THREAD LOCKER.
4. APPLY GEAR LUBE ON GEAR TEETH.
5. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
6. PORT A
7. PORT B
8. TORQUE TO 80 FT-LB (11.1 KG-M)
9. GREASE ZERK PLUG
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REV T 20150911
Base & Mast Assembly, Truck Mount

(Model 12000 25-foot Parts & Specifications Manual Part # 99905186)

(99904973) (See Parts List for Effectivity Dates)

NOTE: This base and mast assembly is shown as if it were mounted on a truck.

NOTES (SEE REFERENCE NUMBER IN BOX):
1  TORQUE TO 280 FT-LB (38.7 KG-M)
2  USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
3  APPLY BLUE THREAD LOCKER.
4  APPLY GEAR LUBE ON GEAR TEETH.
5  BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
6  PORT A
7  PORT B
8  TORQUE TO 80 FT-LB (11.1 KG-M)
9  GREASE ZERK PLUG
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REV T 20150911
Boom Assembly (99904973) *(See Parts List for Effectivity Dates)*

NOTES (SEE REFERENCE NUMBER IN BOX):
1. APPLY NEVER-SEEZ
2. INSTALL EXTENSION CYLINDERS FIRST, ADD RETAINERS NEXT, AND INSTALL WEAR PADS LAST.
3. TORQUE TO 280 FT-LB (38.7 KG-M). USE BLUE THREAD LOCKER.
4. START WITH RED SEGMENT
5. ALIGN WITH EDGE
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REV T 20150911
Boom Assembly (99904973) (See Parts List for Effectivity Dates)

NOTES (SEE REFERENCE NUMBER IN BOX):
1 APPLY NEVER-SEEZ
2 INSTALL EXTENSION CYLINDERS FIRST, ADD RETAINERS NEXT, AND INSTALL WEAR PADS LAST.
3 TORQUE TO 280 FT-LB (38.7 KG-M). USE BLUE THREAD LOCKER.
4 START WITH RED SEGMENT
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REV T 20150911
Valve Assembly

(Reference drawings 99904973 - 99904974 - 99904926 - 99904927)

FULLY PROPORTIONAL VALVE BANK ASSEMBLY

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REV T 20150911
Valve Assembly-Singe Proportional

(Reference drawings 99904973 - 99904974 - 99904926 - 99904927)

SINGLE PROPORTIONAL VALVE BANK ASSEMBLY

VALVE ASSEMBLY

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REV T 20150911
Winch & Anti-Two-Block Assembly

(Reference drawings 99904973 - 99904974 - 99904926 - 99904927)

NOTES (SEE REFERENCE NUMBER IN BOX):
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2  CASE DRAIN

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REV Q 20140212
Crane & Winch Assembly (99904973)
(See Parts List for Effectivity Dates)

NOTES (SEE REFERENCE NUMBER IN BOX):

1  APPLY ANTI-SEEZ TO BOOM AND CYLINDER MOUNTING PINS. DO NOT ALLOW ANTI-SEEZ TO CONTACT BOOM OR CYLINDER PIN BOSS BEARINGS.

2  IF REQUIRED, USE 72063038 OR 72063039 MACHINERY BUSHINGS BETWEEN MAST AND LOWER BOOM.
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REV T 20150911
Crane & Winch Assembly (99904973)
(See Parts List for Effectivity Dates)

NOTES (SEE REFERENCE NUMBER IN BOX):
1. APPLY ANTI-SEEZ TO BOOM AND CYLINDER MOUNTING PINS. DO NOT ALLOW ANTI-SEEZ TO CONTACT BOOM OR CYLINDER PIN BOSS BEARINGS.
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REV T 20150911
Flip Sheave Assembly (99904973)
(See Parts List for Effectivity Dates)

NOTES (SEE REFERENCE NUMBER IN BOX):
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FLIP SHEAVE ASSEMBLY (99904973)
Flip Sheave Assembly (99904973)
(See Parts List for Effectivity Dates)

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FLIP SHEAVE ASSEMBLY (99904973)

REV T 20150911
Flip Sheave Assembly (99904973)

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# 12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)

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REV T 20150911
### 99904973 12000 25-foot Crane Parts List, Complete

(See Parts List for Effectivity Dates)

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### 12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)

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REV T 20150911
Gear Rotator (71056674) (Eff. 12-1-11)

Motor Input Data:
- Mount SAE-C, 4 x 1/2-13UNC 2B on 6.375" dia BC
- Pilot - 5.002"/5.005" dia.
- Shaft - 1.000" dia with .25" square key

Transmission Data:
- Gear Ratio - 83:1
- Maximum Torque Output - 140,000 in-lb
NOTES (SEE REFERENCE NUMBER IN BOX):
1 AT ASSEMBLY, WORM BEARING IS PRE-LOADED BY ADDING AND REMOVING SHIMS UNTIL THE END PLAY IS 0.00" AND THE SHAFT TURNS FREELY.
2 SET BACKLASH BETWEEN WORM AND GEAR TO 0.006"/0.012" (0.152 / 0.305 mm). TORQUE BOLTS (ITEM #14) TO 55-65 FT-LB (7.6 - 9.0 KG-M).
3 PRIOR TO SHIPPING, GREASE ZERK (ITEM #33) AND CAP (ITEM #34) ARE INSTALLED.
4 TORQUE BOLTS (ITEM #31) TO 85-96 FT-LB. (11.8 - 13.1 KG-M).

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Gear Rotator (71056661) (Thru 11-30-11)

NOTES (SEE REFERENCE NUMBER IN BOX):
1. AT ASSEMBLY, WORM BEARING IS PRE-LOADED BY ADDING AND REMOVING SHIMS UNTIL THE END PLAY IS 0.00" AND THE SHAFT TURNS FREELY.
2. SET BACKLASH BETWEEN WORM AND GEAR TO 0.006"/0.012" (0.152 / 0.305 mm). TORQUE BOLTS (ITEM #14) TO 55-65 FT-LB (7.6 - 9.0 KG-M).
3. PRIOR TO SHIPPING, GREASE ZERK (ITEM #33) AND CAP (ITEM #34) ARE INSTALLED.
4. TORQUE BOLTS (ITEM #31) TO 85-96 FT-LB. (11.8 - 13.1 KG-M).

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Lower Cylinder (51723137)

Chapter 4  Parts  83

STAMP PART NUMBER AND REVISION LEVEL.

RETRACT PORT
TEST PORT

R1.63" TYP
Ø2" TYP

45.44" RETRACTED
70.5" EXTENDED ±0.063"

SECTION A-A

PISTON SEALS

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ROD SEALS

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SEAL KIT # 94399132.
INCLUDES ALL SEALS. SEALS CANNOT BE PURCHASED INDIVIDUALLY.
NOTES:
1. SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
2. REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.
3. APPLY "LUBRIPLATE" NO. 630-2 MEDIUM-HEAVY, MULTI-PURPOSE LUBRICANT TO ALL PISTON, ROD BEARING AND HOLDING VALVE SEALS.
4. TORQUE ROD BEARING TO 500-600 FT-LB (69-83 KG-M).
5. TORQUE PISTON NUT (ITEM #16) TO 2285 FT-LB (39 KG-M).
6. TO LOCK THE ROD BEARING ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30" DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE. INSTALL THE LOCKING SCREW (ITEM #9, SELF-TAPPING #8-32 X 0.25" SET SCREW) IN THE HOLE UNTIL SEATED.

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Extension Cylinder Assembly (51722968)

NOTES:
1 TEST CYLINDER AT 3500 PSI.
2 TORQUE NUT #3 (1.25-12 UNF) TO 810.7 FT-LB (112 KG-M).
3 PAINT BLACK SEMI-GLOSS.
4 INSTALL HOSE CLAMPS AFTER PAINTING.

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REV.E 20151228
Cylinder (51723929)

123.93" CLOSED - 198.93" OPEN - 75" STROKE

SECTION A-A

Ø3" BARREL

Ø2.5" BORE Ø1.75" ROD

SECTION A-A

1.25-12 UNC 2A

SECTION B-B

171°

SEALS FOR 51723929 PISTON

SEALS FOR 51723929 ROD BEARING

PISTON SEALS

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ROD SEALS

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<td>WIPER</td>
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</tr>
<tr>
<td>6</td>
<td>BACK-UP RING</td>
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</table>

NOTES:
1. SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
2. REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.
3. APPLY "LUBRIPLATE" NO. 630-2 MEDIUM-HEAVY, MULTI-PURPOSE LUBRICANT TO ALL PISTON, ROD BEARING AND HOLDING VALVE SEALS.
4. TORQUE ROD BEARING TO 200-300 FT-LB (27.6 - 41.5 KG-M).

PART OF SEAL KIT # 94399161, WHICH INCLUDES ALL ROD AND PISTON SEALS FOR 51723929. SEALS CANNOT BE PURCHASED INDIVIDUALLY.
5. TORQUE PISTON NUT TO 412.3 FT-LB (57 KG-M).

6. TO LOCK THE ROD BEARING ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30” DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE. INSTALL THE LOCKING SCREW (ITEM #9, SELF-TAPPING #8-32 X 0.25” SET SCREW) IN THE HOLE UNTIL SEATED.

7. SEAL KIT 94399161 INCLUDES ALL SEALS FOR CYLINDER 51723929.

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Cylinder (51723930)

SEALS FOR 51723930 PISTON

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SEALS FOR 51723930 ROD BEARING

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PART OF SEAL KIT # 94399162, WHICH INCLUDES ALL ROD AND PISTON SEALS FOR 51723930. SEALS CANNOT BE PURCHASED INDIVIDUALLY.

NOTES:
1. SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
2. REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.
3 APPLY "LUBRIPLATE" NO. 630-2 MEDIUM-HEAVY, MULTI-PURPOSE LUBRICANT TO ALL PISTON, ROD BEARING AND HOLDING VALVE SEALS.

4 TORQUE ROD BEARING TO 200-300 FT-LB (27.6 - 41.5 KG-M).

5 TORQUE PISTON TO 200-300 FT-LB (27.7 - 41.5 KG-M).

6 TO LOCK THE ROD BEARING ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30" DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE. INSTALL THE LockING SCREW (ITEM #9, SELF-TAPPING #8-32 X 0.25" SET SCREW) IN THE HOLE UNTIL SEATED.

7 SEAL KIT 94399162 INCLUDES ALL SEALS FOR CYLINDER 51723930.

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Winch Specifications (70570836)

WINCH SPECIFICATIONS

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PERFORMANCE ESTIMATE

| PRESSURE | 2550 PSI |
| FLOW     | 12 GPM   |
| MOTOR DISPLACEMENT | 7.67 CI/REV |
| GEAR RATIO | 15:1     |

DRUM SPECIFICATIONS

| DRUM DIAMETER | 8.54 INCHES |
| FLANGE DIAMETER | 14.17 INCHES |
| ROPE          | 1/2" DIAMETER |

PORTS

| A (HOISTING PORT) | 3/4" BSPP |
| B (LOWERING PORT) | 3/4" BSPP |
| D (MOTOR CASE DRAIN) | 1/4" BSP |
| P (LUBRICATION OIL PLUG) | 3/8" BSP |
**Winch Parts (70570836)**

![Diagram of Winch Parts](image)

### 70570836 PARTS LIST

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### 70570836 WINCH BRAKE

**VIEW A: WINCH BRAKE**

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## Valvebank (73734772)

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REV C 20140908
Valvebank (73734727)

WAS 73734635 THROUGH S/N 12000121005.

### VALVE SECTIONS

- WINCH
- EXT CYL
- MAIN CYL
- ROTATION
- WINCH DRAIN
- RELIEF VALVE
- RETURN (TANK)
- PRESSURE CONNECTION BLOCK
- SOLENOID

### 73734727 PARTS LIST

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**NOTE:** These seals are all part of 94399214, and cannot be purchased individually.
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CONNECTION BLOCK SEAL KIT FOR 73734727 (94399213)
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NOTE: These seals are all part of 94399213, and cannot be purchased individually.
Hydraulic Schematic Fully Proportional (99905036)

NOTES:
1 USE SLEEVE 60350141 FOR EXTENSION CYLINDER, LOWER CYLINDER, AND ROTATION HOSES.
2 USE SLEEVE 60350142 FOR WINCH AND PRESSURE / RETURN VALVE BANK HOSES.
3 USE SLEEVE 60350105 FOR PRESSURE / RETURN HOSES AND ROTATION HOSES THROUGH THE MAST.
### Planetary Winch Port Identification

**Port A**
- Lower Cyl (Retract)
- Lower Cyl (Extend)
- Valves Bank (Winch Up)
- Valves Bank (Winch Down)

**Port B**
- Ext Cyl (Retract)
- Ext Cyl (Extend)

### Hyd Motor Port Identification (Rotation)
- Port A
- Port B

### Valve Bank Port Identification
- Valves Bank (Winch Up)
- Valves Bank (Winch Down)
- Return Pressure
- Pressure & Return Hoses
- Transducer
- Lower Cylinder Port Identification

### Parts List

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REV T 20150911
Hydraulic Schematic Single Proportional (99905597)

NOTES:
1. SEE SHEET 2 FOR WINCH HYDRAULIC MOTOR, LOWER, AND EXTENSION CYLINDER.
2. INSTALL 60350141 ON EXTENSION CYLINDER, MAIN CYLINDER HOSES AND ROTATION HOSES.
3. INSTALL 60350142 ON WINCH HOSES & PRESSURE AND RETURN VALVE BANK HOSES.
4. INSTALL 60350105 ON PRESSURE & RETURN HOSES, AND ROTATION HOSES THRU MAST.
### 99905597 PARTS LIST

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REV D 20160126
Radio Remote Harness (77441481)
# Radio Remote Harness (77441481)

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Radio Remote Harness (77441481)
Radio Remote Harness-Single Proportional (77441537)
Radio Remote Harness-Single Proportional (77441537)
Horn Circuit (99905614)

CRANE HARNESS 77441481 REV A

- REMOVE WIRE FROM CJ-401 POS C AND MOVE TO GRAY CONNECTOR ON RADIO (PIN 10)
- REMOVE WIRE FROM CJ-401 POS D AND MOVE TO GRAY CONNECTOR ON RADIO (PIN 9)
- STOW SENSOR NC (CRANE HARNESS)
- STOW SENSOR NO (CRANE HARNESS)

CHASSIS HARNESS - DOM 1-2 (77441444) DOM 3-4 (77441446)

- SEE NOTES
- NOTE: THIS MAY BE 12V OR GROUND
- STOW SENSOR NC (IMT CHASSIS HARNESS)
- STOW SENSOR NO (IMT CHASSIS HARNESS)

PLEASE MAKE SURE TO SEE HOW HORN FUNCTIONS BEFORE WIRING IN IMT HORN CIRCUIT

CRANE HARNESS 77441481 REV B

- GRAY CONNECTOR ON RADIO (PIN 10) HORN OUTPUT (2)
- GRAY CONNECTOR ON RADIO (PIN 9) HORN OUTPUT (1)

CHASSIS HARNESS - DOM 1-2 (77441444) DOM 3-4 (77441446)

- SEE NOTES
- NOTE: THIS MAY BE 12V OR GROUND
- STOW SENSOR NC (IMT CHASSIS HARNESS)
- STOW SENSOR NO (IMT CHASSIS HARNESS)

PLEASE MAKE SURE TO SEE HOW HORN FUNCTIONS BEFORE WIRING IN IMT HORN CIRCUIT
Decal Placement, 12000 25' Crane

NOTES (SEE REFERENCE NUMBER IN BOX):
1 SERIAL NUMBER PLACARD. MOUNT STREETSIDE.
2 PLACE BOTTOM POINT OF DIAMOND ABOVE END OF CYLINDER PIN.
3 CENTER ABOVE HOOK WELDMENT.
4 EITHER SIDE.
**DECAL PLACEMENT (IF NOT SHOWN ON CRANE)**

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<td>AT OR NEAR DRIVELINE</td>
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<td>14, 16</td>
<td>ON ALL FOUR SIDES OF CARRIER VEHICLE</td>
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**DECAL PLACEMENT, 12000 25' CRANES (REF 99905088)**

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<td>71039134</td>
<td>DECAL-CAUTION OIL LEVEL</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>20.</td>
<td>70392982</td>
<td>DECAL-SERVICE REPAIR</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>21.</td>
<td>70399195</td>
<td>DECAL-DIAMOND IMT 4 X 8 (REFL)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>22.</td>
<td>70399140</td>
<td>DECAL-DIAMOND IMT 6.75X13.50 (REFL)</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>23.</td>
<td>70399051</td>
<td>DECAL-ID 12000</td>
<td>1</td>
<td></td>
<td>2REF</td>
</tr>
<tr>
<td>24.</td>
<td>71394082</td>
<td>DECAL-LOAD BLOCK RATING 7.0TON</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>70399110</td>
<td>DECAL-CAP CHART 12000-25*</td>
<td>3</td>
<td></td>
<td>REF</td>
</tr>
</tbody>
</table>

REV C 20140416
Option-Winch Roller (99905056)

Kit 51723638

NOTES (SEE REFERENCE NUMBER IN BOX):
1  REPLACE EXISTING BAR ON WINCH WITH 60136607.
2  USE EXISTING BOLTS AS SHOWN.
## 99905056 Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>Description</th>
<th>Details</th>
<th>KIT #</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>70570836</td>
<td>Winch-Planetary 7700 LB Line Pull</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>91725602</td>
<td>Hardware Kit-Winch Roller</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td>52723094</td>
<td>Mounting Bracket-Winch Switch</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td>52723095</td>
<td>ROLLER ASSEMBLY- WINCH SWITCH</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>60030439</td>
<td>Sleeve-Type C</td>
<td>0.38X 0.62X.25</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>6.</td>
<td>60136608</td>
<td>Winch Plate-Roller Bracket</td>
<td></td>
<td></td>
<td>1</td>
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<tr>
<td>7.</td>
<td>77041863</td>
<td>Switch-Limit</td>
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</tr>
<tr>
<td>8.</td>
<td>71413185</td>
<td>Spring</td>
<td>0.105Wire 0.75 OD 2.875 LG</td>
<td>#2</td>
<td>2</td>
</tr>
<tr>
<td>9.</td>
<td>72060047</td>
<td>Cap Screw</td>
<td>.38-16X 1.25 HH G R5 Z</td>
<td>#2</td>
<td>4</td>
</tr>
<tr>
<td>10.</td>
<td>72060641</td>
<td>Machine Screw</td>
<td>#10-24X 1.75 ROUND HEAD</td>
<td>#2</td>
<td>2</td>
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<tr>
<td>11.</td>
<td>72062093</td>
<td>Nut</td>
<td>#8-32 HEX ZINC</td>
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</tr>
<tr>
<td>12.</td>
<td>72062103</td>
<td>Nut</td>
<td>.38-16 HEX NYLOCK</td>
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<td>2</td>
</tr>
<tr>
<td>13.</td>
<td>72062106</td>
<td>Nut</td>
<td>#10-24 HEX NYLOCK</td>
<td>#2</td>
<td>2</td>
</tr>
<tr>
<td>14.</td>
<td>72063003</td>
<td>Washer</td>
<td>.38 FLAT</td>
<td>#2</td>
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<tr>
<td>15.</td>
<td>72063051</td>
<td>Washer</td>
<td>.38 LOCK</td>
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<td>2</td>
</tr>
<tr>
<td>16.</td>
<td>72063268</td>
<td>Washer</td>
<td>#10 W FLAT ANSI B27.2Z</td>
<td>#2</td>
<td>2</td>
</tr>
<tr>
<td>17.</td>
<td>72063271</td>
<td>Washer</td>
<td># 8 W FLAT ANSI B27.2Z</td>
<td>#2</td>
<td>4</td>
</tr>
<tr>
<td>18.</td>
<td>72601938</td>
<td>Bolt-Eye</td>
<td># 8-32X 1.125</td>
<td>#2</td>
<td>2</td>
</tr>
</tbody>
</table>

REV A 20110513
Option - Boom Tip Light Kit (99905289)

NOTES:
1. LIGHT CAN BE PLACED ON EITHER SIDE.
2. HARNESS CONNECTS TO CORD REEL AND ANTI-TWO-BLOCK SWITCH.

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>12V KIT (51723830)</th>
<th>24V KIT (51724606)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>51723830</td>
<td>ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT (12V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1A.</td>
<td>51724606</td>
<td>ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT (24V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>77040424</td>
<td>FLOODLIGHT-COMPOSITE WORK LAMP TOP MTG (12V)</td>
<td>#1</td>
<td>1</td>
</tr>
<tr>
<td>2A.</td>
<td>77441279</td>
<td>FLOODLIGHT-COMPOSITE WORK LAMP TOP MTG (24V)</td>
<td></td>
<td>#1A</td>
</tr>
<tr>
<td>3.</td>
<td>77441470</td>
<td>HARNESS-BOOM TIP FLOOD LIGHT JUMPER</td>
<td>#1</td>
<td>#1A</td>
</tr>
<tr>
<td>4.</td>
<td>72063005</td>
<td>WASHER .50 FLAT</td>
<td>#2</td>
<td>#2A</td>
</tr>
<tr>
<td>5.</td>
<td>72062080</td>
<td>NUT .50-13 HEX NYLOCK</td>
<td>#2</td>
<td>#2A</td>
</tr>
</tbody>
</table>

REV C 20140203
NOTES (SEE REFERENCE NUMBER IN BOX):
1 LIGHT CAN BE PLACED ON EITHER SIDE.
2 HARNESS CONNECTS TO CORD REEL AND ANTI-TWO-BLOCK SWITCH.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>DETAILS</th>
<th>KIT #</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>51724116</td>
<td>ELECTRICAL KIT-BOOM DUAL LED FLOOD LIGHT</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2.</td>
<td>77040581</td>
<td>FLOODLIGHT-LED</td>
<td>12-36 VDC</td>
<td>#1</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>77441473</td>
<td>HARNESS-BOOM TIP LED FLOOD LIGHT JUMPER</td>
<td></td>
<td>#1</td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td>72063002</td>
<td>WASHER</td>
<td>.31 FLAT</td>
<td>#1</td>
<td>4</td>
</tr>
</tbody>
</table>

REV C 20140203
### ELECTRICAL INSTALLATION, LIGHT KITS (99905289)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>DETAILS</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>51723830</td>
<td>ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1.</td>
<td>51724116</td>
<td>ELECTRICAL KIT-BOOM DUAL LED FLOOD LIGHT</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>1.</td>
<td>51724606</td>
<td>ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT 24V</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>77045888</td>
<td>TERMINAL</td>
<td>PKRD WP 14-16GA FEM</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>77044927</td>
<td>CABLE SEAL</td>
<td>14GA GRAY</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td>77044574</td>
<td>CONNECTOR</td>
<td>PKRD WP 2CAV FEM TOWER</td>
<td>1</td>
</tr>
</tbody>
</table>

REV C 20140203
## Inspection Checklist

NOTICE:

The user of this form is responsible for determining that these inspections satisfy all applicable regulatory requirements.

<table>
<thead>
<tr>
<th>OWNER/COMPANY:</th>
<th>TYPE OF INSPECTION (circle one):</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTACT PERSON:</td>
<td>DAILY</td>
</tr>
<tr>
<td>CRANE MAKE &amp; MODEL:</td>
<td>DATE INSPECTED:</td>
</tr>
<tr>
<td>CRANE SERIAL NUMBER:</td>
<td>HOURMETER READING (if applicable):</td>
</tr>
<tr>
<td>UNIT I.D. NUMBER:</td>
<td>INSPECTED BY (print):</td>
</tr>
<tr>
<td>LOCATION OF UNIT:</td>
<td>SIGNATURE OF INSPECTOR:</td>
</tr>
</tbody>
</table>
TYPE OF INSPECTION
NOTES:
Daily and monthly inspections are to be performed by a “competent person”, who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Quarterly and annual inspections are to be performed by a “qualified person” who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, successfully demonstrated the ability to solve/resolve problems relating to the subject matter, the work, or the project.

One hour of normal crane operation assumes 20 complete cycles per hour. If operation exceeds 20 cycles per hour, inspection frequency should be increased accordingly.

Consult Operator / Service Manual for additional inspection items, service bulletins and other information.

Before inspecting and operating crane, crane must be set up away from power lines and leveled with stabilizers fully extended.

DAILY (D): Before each shift of operation, those items designated with a (D) must be inspected.

MONTHLY (M): Monthly inspections or 100 hours of normal operation (whichever comes first) includes all daily inspections plus items designated with an (M). This inspection must be recorded and retained for a minimum of 3 months.

QUARTERLY (Q): Every three to four months or 300 hours of normal operation (whichever comes first) includes all daily and monthly inspection items plus items designated with a (Q). This inspection must be documented, maintained, and retained for a minimum of 12 months, by the employer that conducts the inspection.

ANNUAL (A): Each year or 1200 hours of normal operation (whichever comes first) includes all items on this form which encompasses daily, monthly and quarterly inspections plus those items designated by (A). This inspection must be documented, maintained, and retained for a minimum of 12 months, by the employer that conducts the inspection.

INSPECTION CHECKLIST STATUS KEY:

<table>
<thead>
<tr>
<th>S = Satisfactory</th>
<th>X = Deficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>R = Recommendation (Should be considered for corrective action)</td>
<td></td>
</tr>
<tr>
<td>NA = Not Applicable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FREQUENCY</th>
<th>ITEM</th>
<th>KEY</th>
<th>INSPECTION DESCRIPTION</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>1</td>
<td>Labels</td>
<td>All load charts, safety &amp; warning labels, and control labels are present and legible.</td>
<td>(S,R,X,NA)</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>Crane</td>
<td>Check all safety devices for proper operation.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>Controls</td>
<td>Control mechanisms for proper operation of all functions, leaks and cracks.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>4</td>
<td>Station</td>
<td>Control and operator's station for dirt, contamination by lubricants, and foreign material.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>5</td>
<td>Hydraulic System</td>
<td>Hydraulic system (hoses, tubes, fittings) for leakage and proper oil level.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>6</td>
<td>Hook</td>
<td>Presence and proper operation of hook safety latches.</td>
<td></td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>ITEM</td>
<td>KEY</td>
<td>INSPECTION DESCRIPTION</td>
<td>STATUS</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>---------</td>
<td>-----------------------------------------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>D</td>
<td>7</td>
<td>Wire</td>
<td>Inspect for apparent deficiencies per applicable requirements and manufacturer's specifications.</td>
<td>(S,R,X,NA)</td>
</tr>
<tr>
<td>D</td>
<td>8</td>
<td>Pins</td>
<td>Proper engagement of all connecting pins and pin retaining devices.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>9</td>
<td>General</td>
<td>Overall observation of crane for damaged or missing parts, cracked welds, and presence of safety covers.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>10</td>
<td>Operation</td>
<td>During operation, observe crane for abnormal performance, unusual wear (loose pins, wire rope damage, etc.). If observed, discontinue use and determine cause and severity of hazard.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>11</td>
<td>Remote Ctrl</td>
<td>Operate remote control devices to check for proper operation.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>12</td>
<td>Electrical</td>
<td>Operate all lights, alarms, etc. to check for proper operation.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>13</td>
<td>Anti-Two-Block or Two-Block Damage Prevention</td>
<td>Operate anti two-block or two-block damage prevention device to check for proper operation.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>14</td>
<td>Tires</td>
<td>Check tires (when in use) for proper inflation and condition.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>15</td>
<td>Ground Conditions</td>
<td>Check ground conditions around the equipment for proper support, watching for ground settling under and around stabilizers and supporting foundations, ground water accumulation, or similar conditions.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>16</td>
<td>Level</td>
<td>Check the equipment for level position within the tolerances specified by the equipment manufacturer's recommendations, both before each shift and after each move and setup.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>17</td>
<td>Operator cab windows</td>
<td>Check windows for cracks, breaks, or other deficiencies which would hamper the operator's view.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>18</td>
<td>Rails, rail stops, rail clamps and supporting surfaces</td>
<td>Check rails, rail stops, rail clamps and supporting surfaces when the equipment has rail traveling.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>19</td>
<td>Safety devices</td>
<td>Check safety devices and operational aids for proper operation.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>20</td>
<td>Electrical</td>
<td>Check electrical apparatus for malfunctioning, signs of apparent excessive deterioration, dirt or moisture accumulation.</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>21</td>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>22</td>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>23</td>
<td>Daily</td>
<td>All daily inspection items.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>24</td>
<td>Cylinders</td>
<td>Visual inspection of cylinders for leakage at rod, fittings, and welds. Damage to rod and case.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>25</td>
<td>Valves</td>
<td>Holding valves for proper operation.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>26</td>
<td>Valves</td>
<td>Control valves for leaks at fittings and between stations.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>27</td>
<td>Valves</td>
<td>Control valve linkages for wear, smoothness of operation, and tightness of fasteners. Relief valve for proper pressure settings.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>28</td>
<td>General</td>
<td>Bent, broken, or significantly rusted/corroded parts.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>29</td>
<td>Electrical</td>
<td>Electrical apparatus for malfunctioning, signs of apparent excessive deterioration, dirt or moisture accumulation. Electrical systems for presence of dirt, moisture, and frayed wires.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>30</td>
<td>Structure</td>
<td>All structural members for damage.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>31</td>
<td>Welds</td>
<td>All welds for breaks and cracks.</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>32</td>
<td>Pins</td>
<td>All pins for proper installation and condition.</td>
<td></td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>ITEM</td>
<td>KEY</td>
<td>INSPECTION DESCRIPTION</td>
<td>STATUS</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>-----</td>
<td>-------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>M</td>
<td>33</td>
<td>M</td>
<td>Hardware</td>
<td>All bolts, fasteners and retaining rings for tightness, wear and corrosion.</td>
</tr>
<tr>
<td>M</td>
<td>34</td>
<td>M</td>
<td>Wear Pads</td>
<td>Presence of wear pads.</td>
</tr>
<tr>
<td>M</td>
<td>35</td>
<td>M</td>
<td>Pump &amp; Motor</td>
<td>Hydraulic pumps and motors for leakage at fittings, seals, and between sections. Check tightness of mounting bolts.</td>
</tr>
<tr>
<td>M</td>
<td>36</td>
<td>M</td>
<td>PTO</td>
<td>Transmission/PTO for leakage, abnormal vibration &amp; noise, alignment, and mounting bolt torque.</td>
</tr>
<tr>
<td>M</td>
<td>37</td>
<td>M</td>
<td>Hyd Fluid</td>
<td>Quality of hydraulic fluid and presence of water.</td>
</tr>
<tr>
<td>M</td>
<td>38</td>
<td>M</td>
<td>Hyd Lines</td>
<td>Hoses &amp; tubes for leakage, abrasion damage, blistering, cracking, deterioration, fitting leakage, and secured properly.</td>
</tr>
<tr>
<td>M</td>
<td>39</td>
<td>M</td>
<td>Hook</td>
<td>Load hook for abnormal throat distance, twist, wear, and cracks.</td>
</tr>
<tr>
<td>M</td>
<td>40</td>
<td>M</td>
<td>Wire Rope</td>
<td>Condition of load line.</td>
</tr>
<tr>
<td>M</td>
<td>42</td>
<td>M</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>43</td>
<td>Q</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>44</td>
<td>Q</td>
<td>Daily</td>
<td>All daily inspection items.</td>
</tr>
<tr>
<td>Q</td>
<td>45</td>
<td>Q</td>
<td>Monthly</td>
<td>All monthly inspection items.</td>
</tr>
<tr>
<td>Q</td>
<td>46</td>
<td>Q</td>
<td>Rotation Sys</td>
<td>Rotation bearing for proper torque of all mounting bolts.</td>
</tr>
<tr>
<td>Q</td>
<td>47</td>
<td>Q</td>
<td>Hardware</td>
<td>Base mounting bolts for proper torque.</td>
</tr>
<tr>
<td>Q</td>
<td>48</td>
<td>Q</td>
<td>Structure</td>
<td>All structural members for deformation, cracks and corrosion.</td>
</tr>
<tr>
<td></td>
<td>49</td>
<td>Q</td>
<td>Base</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50</td>
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# Deficiency / Recommendation / Corrective Action Report

DATE: | OWNER: | UNIT I.D. NUMBER:
---|---|---

## GUIDELINES

- **a** A deficiency (X) may constitute a hazard. Deficiency must be corrected and/or faulty parts replaced before resuming operation.
- **b** Recommendations (R) should be considered for corrective actions. Corrective action for a particular recommendation depends on the facts in each situation.
- **c** Corrective actions (CA), repairs, adjustments, parts replacement, etc. are to be performed by a qualified person in accordance with all manufacturer’s recommendations, specifications and requirements.

**NOTE:** Deficiencies (X) listed must be followed by the corresponding corrective action taken (CA).

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### Thread Torque Charts

#### FINE THREAD BOLTS (ENGLISH)

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### NOTES
1. Tightening torques provided are midrange.
2. Consult bolt manufacturer’s particular specifications, when provided.
3. Use flat washers of equal strength.
4. All torque measurements are given in foot-pounds.
5. Torque values specified are for bolts with residual oils or no special lubricants applied. If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphide, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

### WARNING
Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing. Failure to replace gear-bearing bolts may result in bolt failure due to metal fatigue causing death or serious injury.
## FINE THREAD TORQUE CHART (METRIC)

<table>
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<tr>
<th>SIZE (DIA-TPI)</th>
<th>BOLT DIA. (INCHES)</th>
<th>TIGHTENING TORQUE</th>
<th>PLAIN (KG-M)</th>
<th>PLATED (KG-M)</th>
<th>PLAIN (KG-M)</th>
<th>PLATED (KG-M)</th>
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<tr>
<td>7/8-11</td>
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## COARSE THREAD TORQUE CHART (METRIC)

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<th>PLAIN (KG-M)</th>
<th>PLATED (KG-M)</th>
<th>PLAIN (KG-M)</th>
<th>PLATED (KG-M)</th>
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