Service Bulletin
LT6KV Light Tower

Details

Problem:
a. Multiquip has determined the Class II ball coupler on the LT6KV may, in some applications, be subjected to side loads that exceed its rated capacity. In some rare instances, the light tower may be subject to tip over during slow speed turns.

Solution:

a. Replace the Class II ball coupler with a Class IV rated ball coupler.
b. Increasing the wall thickness of the tow bar assembly to 1/4" for structural rigidity.

Parts Information

Table 1. LT6KV Tow Bar Kit Parts

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>QTY.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>44210-SK</td>
<td>Kit, Tongue Assy., LT6KV</td>
<td>1</td>
<td>Includes Items 2-6</td>
</tr>
<tr>
<td>2</td>
<td>915319</td>
<td>Screw, HHC 5/8&quot;-11 X 4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>9503</td>
<td>Nut, Nyloc 5/8&quot;-11</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Tow Bar with Coupler</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1662</td>
<td>Black Tie Wrap, 11 in.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>44414</td>
<td>Tow Bar Kit Instructions, LT6KV</td>
<td>1</td>
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</tbody>
</table>

Figure 1. Kit, Tongue Assy., LT6KV
WORK SAFELY!

Only a qualified service technician with proper training should perform this installation. Follow all shop safety rules when performing this installation.

PREPARATION

1. Place the LT6KV Light Tower in an area free of dirt and debris. Make sure it is on secure level ground with chock blocks underneath each wheel to prevent the light tower from rolling.

2. Make sure the unit is turned OFF.

3. Check that all parts are accounted for before attempting this installation procedure. Reference Table 1 and Figure 1.

REQUIRED TOOLS

- Ratchet Set
- Open-End Wrench Set

PROCEDURE

The following instructions will guide you through the removal of the existing tow bar assembly and the installation of the replacement tow bar assembly.

DEPLOYING OUTRIGGERS

1. Deploy the left and right side outrigger jack stands to support the front-end (tow side) of the light tower. See Figure 3.

2. Once the tow end of the light tower has been supported by the left and right outrigger jack stands, remove the cotter pin from the locking pin hole as shown in Figure 4.

3. Next, remove the locking pin (Figure 4) from the jack stand support hub. Set locking and cotter pins aside.

4. Remove jack stand and set aside.

Figure 2. Chock Tires

Figure 3. Outrigger Deployment

Figure 4. Front Jack Stand Removal
TOW BAR REMOVAL

1. Remove the bolts and washers that secure the tow bar step to the tow bar tongue (Figure 5).

2. Remove tow bar step and set aside, it will be mounted onto the replacement tow bar. Save mounting hardware, it will be used later.

3. On the underside of the tow bar, remove the two 1/2" clamps and tie wraps that secure the tail light harness to the tow bar (Figure 6).

4. Set the tail light harness and associated hardware aside, as these components will be installed onto the new replacement tow bar.

5. Remove the bolt and washers that secure the safety chain to the tow bar (Figure 7).

6. Remove safety chain and set aside, it will be mounted onto the replacement tow bar.

7. Remove the 5/8"-11 X 4 HHC screw and 5/8" nyloc nut (Figure 8) that secures the tow bar to the frame.

8. Remove tow bar from the frame channel. Discard tow bar (old), 5/8"-11 X 4 HHC screw and 5/8" nyloc nut.
NEW TOW BAR INSTALLATION

1. Slide new tow bar with coupler into the frame channel as shown in Figure 9.

2. Secure tow bar with new 5/8"-11 X 4 HHC screw (P/N 915319) and 5/8" nyloc nut (P/N 9503). Tighten nut securely.

   Figure 9. Attach and Secure New Tow Bar

REASSEMBLY

Front Jack Stand

1. Place front jack stand onto tow bar jack stand support hub as shown in Figure 10.

   Figure 10. Front Jack Stand Install

2. Next, insert the jack stand locking pin through both the jackstand and tow bar support hubs.

3. Secure front jack stand to tow bar by inserting cotter pin into locking pin hole.

Tow Bar Step

1. Align the tow bar step with the two mounting holes (Figure 11) on the tow bar.

2. Secure the tow bar step with the bolts and washers that were removed earlier. Reference "Tow Bar Removal" section, step 2.

   Figure 11. Install Tow Bar Step
Tail Light Harness

1. Route the tail light harness through both of the 1/2" clamps as shown in Figure 12.

2. Next, attach the tail light harness onto tow bar using 1/4-20 X 3/8" screw (2).

3. Apply three tie wraps (P/N 1662) around tow bar to further secure tail light harness.

Safety Chain

1. Install the safety chain (Figure 13) onto the tow bar using the hardware that was removed in the "Tow Bar Removal" section, step 5. Tighten bolt securely.

Final Assembly

1. Reference Figure 14 for final assembly.

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Figure 12. Attaching Tail Light Harness

Figure 13. Safety Chain Installation

Figure 14. Tow Bar Final Assembly
Here’s How to Get Help

Please have the model and serial number on-hand when calling.

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