Rebuild Kit Instructions

Electronic Lock Indicator (ELI-te™)
RK-12131, RK-11964, RK-11966
RK-11971, RK-11984

For XA-311, XA-351 and XA-331 Series
Fifth Wheel Top Plates
Introduction

This manual provides procedures for installing the Electronic Lock Indicator System Technology Enhanced (ELI-te) for Holland fifth wheels. See page 3 for exact model identification.

NOTE: For HOLLAND® replacement components contact SAF-HOLLAND Customer Service: 1-888-396-6501.

Notes, Cautions, and Warnings

You must read and understand all of the procedures presented in this manual before starting work on any Electronic Lock Indicator System (ELI-te) for the HOLLAND® series fifth wheels.

IMPORTANT: Keep this manual in a safe location for future reference.

Proper tools must be used to perform the maintenance and repair procedures described in this manual.

NOTE: In the United States, work shop safety requirements are defined by federal and/or state Occupational Safety and Health Acts. Equivalent laws may exist in other countries. This manual is written based on the assumption that OSHA or other applicable employee safety regulations are followed by the location where work is performed.

Throughout this manual, you will notice the terms "NOTE," "IMPORTANT," "CAUTION," and "WARNING" followed by useful product information. So that you may better understand the manual, those terms are defined as follows:

NOTE: Includes additional information to enable accurate and easy performance of procedures.

IMPORTANT: Includes additional information that, if not followed, could lead to hindered product performance.

CAUTION Used without the safety alert symbol, indicates a potentially hazardous situation which, if not avoided, could result in property damage.

CAUTION Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
1. General Safety Instructions

Read and observe all Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

The Electronic Lock Indicator System Technology Enhanced (ELI-te) installation must be performed by a trained technician using proper tools and safe procedures.

**IMPORTANT:** The Electronic Lock Indicator Technology Enhanced (ELI-te) is a tractor-trailer fifth wheel coupling aid and is intended as an additional safety check to assure the driver of a safe and complete coupling. It does not eliminate the requirement for a visual inspection of the fifth wheel. Always get out of the tractor cab and visually inspect the fifth wheel coupling before proceeding.

**IMPORTANT:** Prior to operation of the fifth wheel you must be thoroughly satisfied that the fifth wheel has been properly installed on the vehicle.

**WARNING** Failure to properly install, the fifth wheel may result in tractor trailer separation which, if not avoided, could result in death or serious injury.

Refer to SAF-HOLLAND Installation Manual XL-FW10008IM-m2-US (available on the Internet at www.safholland.us) for proper installation procedures.

We recommend only the use of HOLLAND® Original Parts.

A list of SAF-HOLLAND technical support locations to supply SAF-HOLLAND® Original Parts can be found at www.safholland.us or contact our customer service group at 1-888-396-6501.

Updates to this manual will be published as necessary on the Internet at www.safholland.us.

2. Model Identification

This manual contains retrofit procedures for installing an Electronic Lock Indicator (ELI-te) on the 351 Fifth Wheel Top Plate (XA-351 Series), and for the LowLube Fifth Wheel Top Plate (XA-331 Series) manufactured after January 1, 1997, as well as NoLube fifth wheel top plate (XA-311 Series) (Figure 1).

The ELI-te is NOT available for FW3500 fifth wheel top plates manufactured before December 31, 1996 (Figure 2).
Exploded View and Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>QTY.</th>
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<tr>
<td>1</td>
<td>Bracket, Indicator Light</td>
<td>XA-11964</td>
<td>2</td>
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<tr>
<td>2</td>
<td>Bracket, Inspection Light, Left</td>
<td>XA-11966-L</td>
<td>1</td>
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<td>3</td>
<td>Bracket, Inspection Light, Right</td>
<td>XA-11966-R</td>
<td>1</td>
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<tr>
<td>4</td>
<td>Bracket, Cam Sensor</td>
<td>XA-11968</td>
<td>1</td>
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<tr>
<td>5</td>
<td>Sensor Flag Assembly, Kingpin</td>
<td>XA-11984</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>SCHS, 5/16&quot; x 18 x 1/2&quot; LG</td>
<td>XB-TLN-2506</td>
<td>14</td>
</tr>
<tr>
<td>7</td>
<td>Bracket, Wire Mount</td>
<td>XA-11967-L</td>
<td>1</td>
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<tr>
<td>8</td>
<td>Coupling Monitor Assembly</td>
<td>EE-11971</td>
<td>1</td>
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</tbody>
</table>
3. Top Plate Removal

**NOTE:** Some fifth wheel assemblies have replaceable pocket inserts installed between the fifth wheel top plate and mounting base. Take care when removing the fifth wheel top plate not to lose pocket inserts.

**CAUTION** Failure to prevent pocket inserts from falling out of the top plate could cause a potentially hazardous situation which, if not avoided, may result in minor or moderate injury

1. Remove bracket pin retention bolts and nuts from both sides of fifth wheel top plate (Figure 3).
2. Using a pry bar, pull bracket retention pins out of fifth wheel top plate (Figure 3).
3. Using a lifting device capable of lifting 500 lbs. (227 kg), remove top plate from mounting base. Place fifth wheel upside down on a flat, clean working area.

**NOTE:** Follow instructions published by lifting device manufacturer for proper operation of lifting device.

4. It is recommended that installers use an SAF-HOLLAND® fifth wheel rebuild stand (*Figure 4*) (part number: TF-04229-1) and 2" fifth wheel lock adjustment tool (*Figure 5*) (part number: TF-TLN-5001) when installing ELI-te components.
4. ELI-te Installation

1. Kingpin Sensor Flag Installation: Assemble the kingpin sensor flag assembly (XA-11984) to fifth wheel with two (2) XB-TLN-2506 torqued to 22 ft-lbs (Figure 6).

2. Warning Light Bracket Installation: Install (2) XA-11964 brackets using four (4) XB-TLN-2506. Torque to 22 ft.-lbs. (Components of fifth wheel not shown for clarity) (Figure 7).

3. Inspection Light Bracket Installation: Install XA-11966-L and XA-11966-R using four (4) XB-TLN-2506. Torque to 22 ft.-lbs. (Components of fifth wheel not shown for clarity) (Figure 8).

4. Wire Mount Bracket Installation: Install XA-11967-L using two (2) XB-TLN-2506. Torque to 22 ft.-lbs. (Components of fifth wheel not shown for clarity) (Figure 9).
5. Cam Sensor Bracket Installation: Install the cam sensor bracket (XA-11968) to casting using cam pivot bolt. Torque to 65 ft-lbs (Figure 10).

6. Coupling Monitor Assembly Installation: Install logic box enclosure (attached to EE-11971) using two (2) XB-TLN-2506. Torque to 22 ft.-lbs. (Components of fifth wheel not shown for clarity) (Figure 11).

7. Install the two (2) roadside red LEDs into XA-11964 bracket. Install grommet into light bracket, then pull light through bracket. Secure the roadside red LED cable to the bracket using one (1) XB-11970 cable tie (Figure 12).

8. Install the wire harness to the brackets in the following order. Install the two (2) roadside white LED’s in the XA-11966-L and XA-11966-R brackets by pulling the retaining boot backwards off the LED, passing both the LED and the boot through the mounting hole in the bracket, pulling the boot back over the LED and pressing it into place on the bracket. Secure the two (2) roadside white LED cables to the bracket using one (1) XB-11970. Secure the two (2) cables from the white LED cables to the wire mount bracket with one (1) XB-11970 cable tie. Install the two (2) red LED lights into the XA-11964 brackets. Secure the red LED cables to the XA-11964 brackets using two (2) XB-11970 cable ties.

9. Secure the five (5) cable ties coming from the logic box as well as the roadside red LED cable to the top of the wire mount bracket with two (2) cable ties. Move the yellow vehicle power cable out of the way.

10. Secure the four (4) cable ties traveling to the curbside of the wheel with one (1) cable tie next to each lock pin. DO NOT include the yellow power cable in these bundles.

11. Secure the four (4) cables to the kingpin sensor flag assembly (XA-11984) using one (1) XB-11970 cable tie.

12. Install the cam sensor into the cam sensor bracket (XA-11968) at the top of the wheel. Use Loctite 243 (blue) on the threads of the sensor where the nut contacts to ensure the nut is secure.

13. Secure the remaining two (2) cables for the white curbside LED’s and kingpin sensor to the bottom of the kingpin sensor flag assembly.

14. Install the kingpin sensor into the kingpin sensor flag assembly with the orange sensor facing the kingpin flag. Use Loctite 243 (blue) on the threads of the sensor where the nut contacts to ensure the nut is secure.

NOTE: Kingpin sensor flag should have close contact to the cam.
5. Cable Tie Installation Locations (shown with green arrows)
6. **Top Plate Installation**

1. Visually inspect both pocket inserts for excessive wear, chips, cracks or gouges. If any of these conditions are found, the pocket insert(s) must be replaced (Figure 13). For pocket insert replacements, contact SAF-HOLLAND Customer Service and request RK-PKT-2.

2. If pocket inserts are dislodged from fifth wheel casting, clean pocket area of casting and apply a strip of double face tape in bottom of pockets. Install pocket inserts by pressing them down into the pocket areas (Figure 13).

3. Using a lifting device capable of lifting 500 lbs. (227 kg), install fifth wheel top plate onto its mounting base.

   **NOTE:** Follow instructions published by lifting device manufacturer for proper operation of lifting device.

4. Install bracket pins through fifth wheel casting and mounting base and secure by installing the bracket pins retention bolts and nuts (Figure 14). Torque retention bolts not to exceed 60 ft.-lbs. (81 N•m).

5. Connect led of ELI-te® system to mating connector from the truck.
From fifth wheel rebuild kits to suspension bushing repair kits, SAF-HOLLAND Original Parts are the same quality components used in the original component assembly.

SAF-HOLLAND Original Parts are tested and designed to provide maximum performance and durability. Will-fits, look-alikes or, worse yet, counterfeit parts will only limit the performance potential and could possibly void SAF-HOLLAND’s warranty. Always be sure to specify SAF-HOLLAND Original Parts when servicing your SAF-HOLLAND product.