

HARRINGTON HOISTS, INC.
INSTRUCTIONS FOR INSPECTION HOOK - LB



Improper installation, use, and maintenance of INSPECTION HOOKS can create a potentially hazardous situation which, if not avoided, could result in death or serious injury. To avoid such a potentially hazardous situation, INSPECTION HOOKS should be installed, used, inspected, and maintained per the following instructions.

SCOPE

These instructions apply to the installation, use, inspection, and maintenance of Inspection Hooks per the following table:

Capacity (Tons)	Hoist Model No.	Bottom Inspection Hook Kit Part No.	Top Inspection Hook Kit Part No.
3/4	LB008	L41021008IK	L41001008IK
1	LB010	L41021010IK	L41001010IK
1-1/2	LB015	L41021015IK	L41001015IK
2	LB020	L41021020IK	L41001020IK
3	LB030	L41021030IK	L41001030IK

INSTALLATION

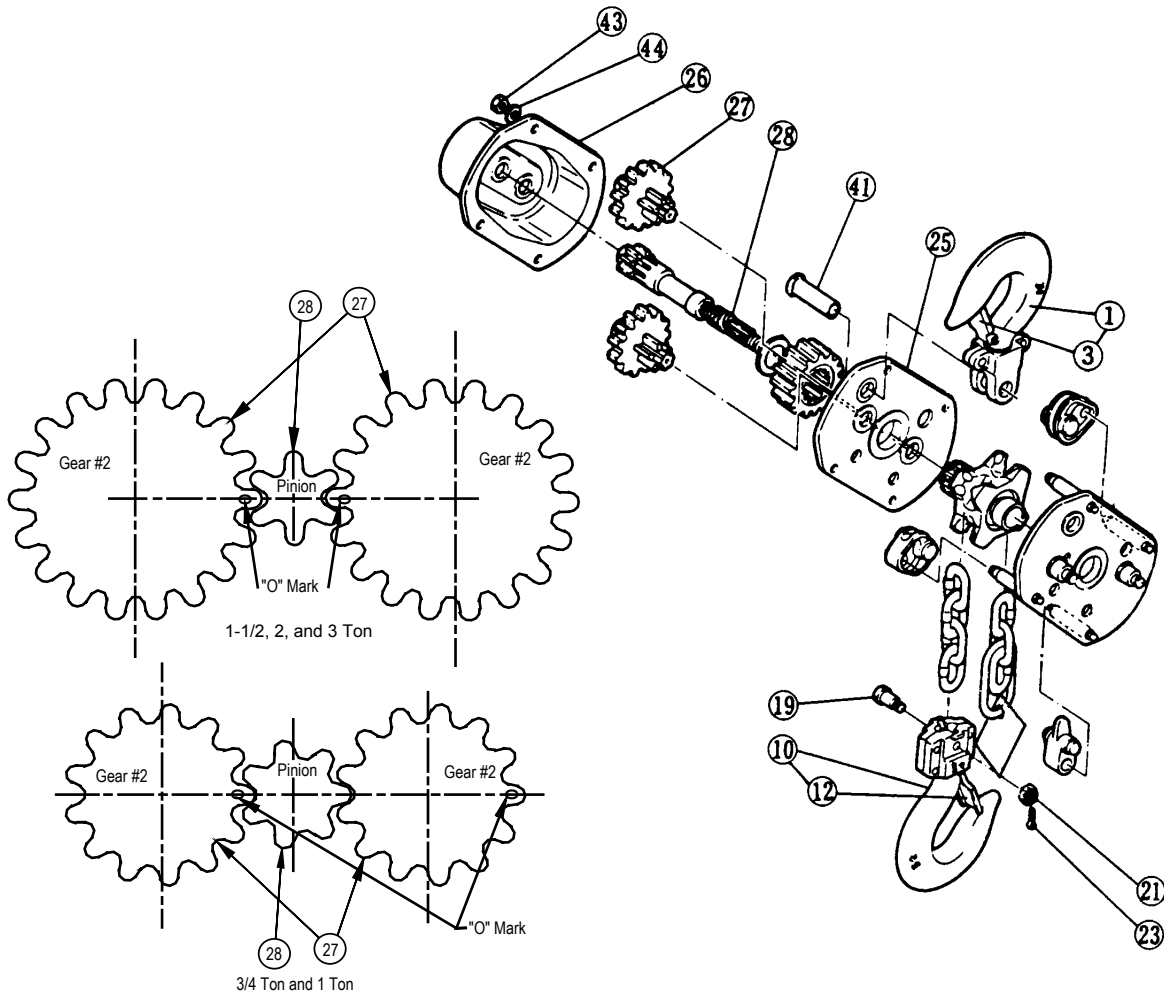
The Inspection Hook Kit contains the following:

- Inspection Hook Set Assembly = Hook + latch + yoke + yoke fasteners all assembled and properly torqued at the factory.
- Inspection/Special Hook Warning Tag
- Instructions

Installation involves removal of existing Hook Set Assembly, installation of the Inspection Hook Set Assembly, installation of the Inspection/Special Hook Warning Tag, and **testing** of the hoist prior to returning it to service.

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INSTRUCTIONS FOR INSPECTION HOOK - LB



Top Hook Set Installation

1. Remove the Gear Case cover (26) by removing the 4 Nuts (43) and Spring Washers (44) to expose the end of Top Pin (41). Both Gear #2's (27) may stick to the Gear Case cover (26) and will require precise re-installation with regards to inscribed timing marks (see below). Remove both Gear #2's and set aside.
2. Remove the Top Pin (41) from Side Plate B and remove the Hook Set (1) and (3).
3. Install the Inspection Hook Set between the side plates, reinstall the Top Pin (41).
4. With Pinion (28) in the center, line up both Gear #2's (27) with the timing marks as indicated above. For 1-1/2, 2, and 3 Ton Lever Hoists use the upper figure, and for 3/4 and 1 Ton Lever Hoists use the lower figure.
5. Align the Gear Case cover (26) over the Gear #2's (27) and reinstall the four sets of nuts (43) and spring washers (44).
6. Perform testing per ANSI/ASME B30.21. After successful testing, the hoist may be returned to service.

HARRINGTON HOISTS, INC.

INSTRUCTIONS FOR INSPECTION HOOK - LB

Bottom Hook Set Installation

1. Remove Split Pin (23) from Slotted Nut (21) and then remove Slotted Nut (21) from Chain Pin (19).
2. Remove the Chain Pin (19). Inspect to determine if it should be replaced or if it can be reused. If it must be replaced, obtain a replacement.
3. Remove and replace the Hook Set (10) and (12) with the Inspection Hook Set.
4. Reinstall the Chain Pin (19), Slotted Nut (21) and Split Pin (23) in reverse order.
5. Perform testing per ANSI/ASME B30.21. After successful testing, the hoist may be returned to service.

USE

The Inspection Hook is designed to facilitate inspection of the internal surfaces of the hook yoke and the shank portion of the hook itself. Disassembly and reassembly involves removal and reinstallation of the yoke fasteners of the Inspection Hook Set Assembly followed by **testing** of the hoist prior to returning it to service.

1. **Disassembly** – Remove the Inspection Hook Set Assembly from the hoist’s load chain by removing its chain pin. Inspect the chain pin to determine if it should be replaced or if it can be reused. If it must be replaced, obtain a replacement chain pin. Next, remove the yoke fasteners (4 of these for Bottom Inspection Hook Set Assembly and two for the Top Inspection Hook Set). The Inspection Hook Set Assembly is now in its inspectable condition.
2. **Reassembly** – Fit the yoke halves around the hook shank so that they mate properly. Install the yoke fasteners using the applicable torque value per the following table. It is recommended that the yoke be held firmly in a device such as a bench vice while applying torque to the fasteners. **IMPORTANT** – The yoke fasteners can be reused as long as they are in good condition and have not been damaged. If there is any doubt as to whether the yoke fasteners are acceptable for reuse, obtain replacement fasteners from Harrington Hoists, Inc. See “Inspection and Maintenance” below.
3. **Testing** -After Reassembly, perform testing per ANSI/ASME B30.21.

Hoist Model No.	Torque Value for Yoke Fasteners (In.-lbs.)
LB008	92
LB010	92
LB015	156
LB020	156

HARRINGTON HOISTS, INC.
INSTRUCTIONS FOR INSPECTION HOOK - LB

LB030	156
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INSPECTION AND MAINTENANCE

The Inspection Hook Set Assembly should be inspected as a component of the hoist in accordance with the inspection requirements of ANSI/ASME B30.21.

When maintenance is indicated for the Inspection Hook Set Assembly, replacement yoke fasteners must be obtained from Harrington Hoists, Inc. in accordance with the following table:

Hoist Model No.	Replacement Yoke Fasteners	
	SCREW Harrington Part No.	NUT Harrington Part No.
LB008	9012601	9012603
LB010	9012601	9012603
LB015	9012602	9012604
LB020	9012602	9012604
LB030	9012602	9012604



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