

IMPORTANT: Give to Safety Manager

Installation Information for Lift-Check™ Hoist Ring (Hoist Ring with Visual Indicator)

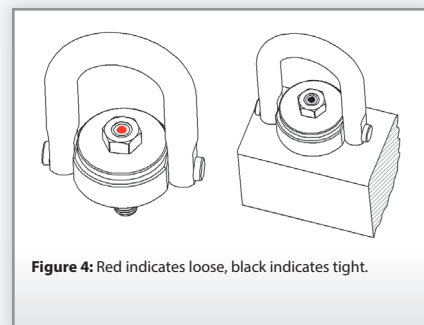
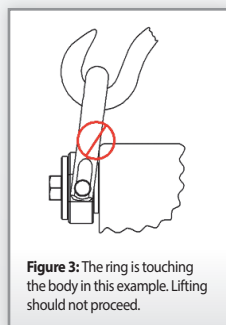
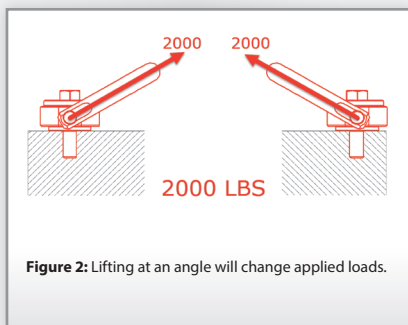
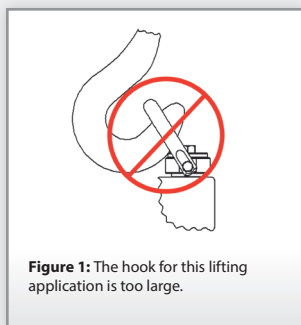
1. Before use, read "LIFT-CHECK™ HOIST RING VISUAL INDICATION INFORMATION" on the reverse page.
2. Before any load is applied to the hoist ring the bolt **MUST** be tightened until the **Visual Indicator color turns black** or to the recommended minimum torque value. Keep in mind the indicator turning black is a more accurate representation of proper bolt tension than the reading of the torque wrench due to frictional variances while tightening.
3. For permanent lifts or in instances where bolts may have been overloaded Jergens Inc recommends verifying the bolt by loosening. If the color of the indicator returns to red the indicator and bolt are good (it is not applicable when abused). If not, the bolt has been damaged and must be replaced.
4. **DO NOT** lift more than the rated load capacity. (SEE TOP OF HOIST RING)
5. Tap workpiece so that hoist ring screw is installed perpendicular to workpiece surface. The work surface must be flat providing complete contact for the hoist ring bushing.
6. When installing in soft metal, such as aluminum, the minimum effective thread engagement must be 2 times the diameter of the thread. An alternate method in soft metal would be a through hole mounting with a nut and washer on the other side of the soft metal.
7. **DO NOT** use spacers between the bushing flange and the mounting surface.

Safety Notice:

1. CAUTION: Never use Lift-Check™ hoist ring if the **Visual Indicator** color appears **BLACK** before hoist ring is installed!
2. CAUTION: Never use a hook or other lifting devices which will pry or tend to open the "U" shaped bar on center-pull hoist rings! (see Figure 1)
3. Depending upon the sling angle, the applied load may be more than the weight being lifted. Two point lifting of a 2000 pound weight with a sling angle of 30° will result in an applied load of 2000 pounds to **each** hoist ring! (see Figure 2)
4. After installation, check the ring to be sure it swivels and pivots freely in all directions. The side of the ring must not contact anything! (see Figure 3)
5. When lifting, apply force gradually. **DO NOT APPLY SHOCK LOADS**. Return to Jergens, Inc. for testing if shock load occurs.
6. Loosening may develop during use. Periodic review of the indicator should be performed when the hoist ring is installed and no load is applied to it. If the color of the indicator remains black the bolt is still correctly preloaded if not, the bolt must be re-tighten.
7. Operating Temperature Range: -20°C to 75°C / -4°F to 168°F

WARNING:

1. JERGENS HOIST RING COMPONENTS ARE NOT INTERCHANGEABLE WITH OTHER MANUFACTURERS' HOIST RINGS. SUBSTITUTION OF PARTS VOIDS ALL LIABILITIES AND MAY RESULT IN HOIST RING FAILURE AND POSSIBLE INJURY.
2. JERGENS HOIST RING ASSEMBLIES ARE PROOF-TESTED TO 200% OF RATED LOAD CAPACITY. CERTIFICATE OF PROOF TEST ACCOMPANIES PRODUCT IN FINAL PACKAGING.
3. PROPER WARNING LABEL AFFIXED TO EACH CLEVIS.
4. 5:1 STRENGTH FACTOR IN VERTICAL PULL
5. JERGENS COMPONENTS ARE HEAT TREATED, MAGNETIC PARTICLE INSPECTED, PROOF LOAD TESTED AND CERTIFIED TO MANUFACTURING SPECIFICATIONS.



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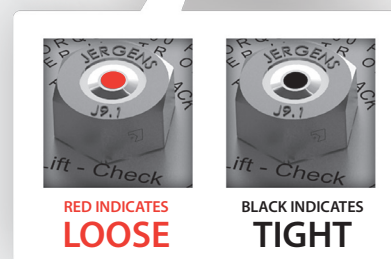
Lift-Check™ Hoist Ring Visual Indication Information

1. Preloading by Visual Indicator

Tensioning the Lift-Check™ hoist ring bolt by visual reference should be done carefully for an accurate black color, **before** any load is applied to the hoist ring.

There must be sufficient light illuminating the indicator to enable the operator to observe color changes occurring as the bolt is tightened. For best results a fluorescent full spectrum light source or natural light is recommended. If this is not available LED light source with an output of 87 Lumens or less may be used. The light source should be positioned a minimum of two feet away from the indicator. Use of an incandescent light source is not recommended.

A box-end wrench is the preferred method of tightening the bolt head. It is best to tighten the fastener slowly by applying a smooth even pull. The bolt should be tightened until the indicator color turns BLACK. This is the point where the Design Tension has been reached and where further tightening will cause very little color change. BE CAUTIOUS not to over tighten the Lift-Check™ hoist ring bolt significantly past the point when the color turns to black, potentially exceeding the Proof Load, which may cause a loss of calibration or damage the visual indicator.



2. Preloading by Torque Control

Using torque control for installation, the torque-tension relationship should be established by carefully applying the recommended torque value in a steady even pull with a calibrated torque wrench. Remove the torque wrench and check if the indicator color is black. If the indicator is not fully black (TIGHT), increase the installation torque until it is properly preloaded. Keep in mind the indicator turning black is a more accurate representation of proper bolt tension than the reading of the torque wrench due to frictional variances while tightening.

3. Lift-Check Hoist Ring Bolt and Joint Preparation

Lubricating the bolt threads and bearing surfaces (on bolt and washer) with a suitable grease or thread lubricant will help to ease the force required to set the Design Tension by means of the visual indicator. It will also prevent galling damage to the bolt threads.

4. Proper Care and Handling

Proper care should be taken to protect the indicator from direct impact during handling and use. The indicator is a precision measuring device that is calibrated and under proper use can remain accurate for the life of the Lift-Check™ hoist ring. A cloth dampened with water can be used to wipe away contaminants and applying a light coat of oil is acceptable. Contact of the indicator with harsh solvents or cleaners should be avoided.

If there are any questions, please contact Jergens customer service at:

877-440-LIFT (5438), lifting@jergensinc.com or go to www.jergensinc.com/lifting.