

TECHNICAL SERVICE BULLETIN

ES2022-002 Revision 0 28 June 2022

Before performing any service always follow applicable safety precautions. Consult company safety manual or supervisor for questions concerning safety.

Helicoil Inserts in ST1000 Starters

Affected Products:	All ST1000 Air Starters		
Affected Date Range:	From Initial Launch		
Related Issue #:	N/A		

Issue Description:

In some cases, when re-installing bolts and heli-coil inserts to the inlet flange of a ST1000 series starter, bolts are not able to be properly seated into the heli-coil inserts.

In the field, we have seen cases where the customers cannot insert the bolts into the heli-coil due to not properly applying oil to the bolts, and/or over-torqueing the bolts beyond its' spec.

Action:

First, the heli-coils need to be installed in the inlet flange. The heli-coils cannot be used with pnuematic impact tools; and they should be started by hand, ran in with a low-impact or hand tool, and torgued with a torgue wrench, set to no more than 150-inch-pounds per the spec in Figure 1.

Once the heli-coils are in, the bolts can be inserted; the bolts that attach the inlet flange come from the supplier preoiled. It is also important to note that the housing are received by us from the supplier with the heli-coils installed as well. If the bolts are stripped of their oil, a few drops of IR Air Tool Oil would suffice as a replacement.

When re-installing the oiled bolts, they should turn with no more than 150 inch-pounds resistance until just before they bottom out. When installing the flange, as you keep tightening, you should tighten the bolts to 50-55 ft-lb.

Please note, these bolts have to be presented in a cross-pattern to create a good seal between the inlet flange and inlet surface on the housing.

If new heli-coils need to be procured, please see Figure 2 for the specifications on them.

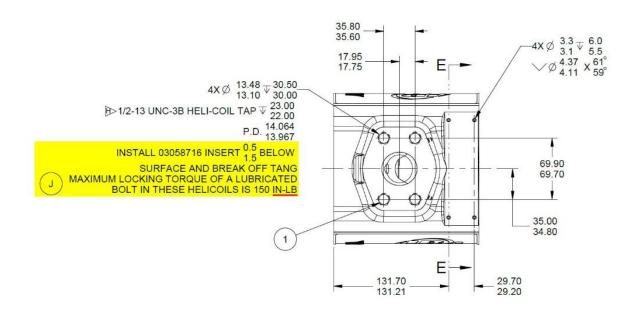
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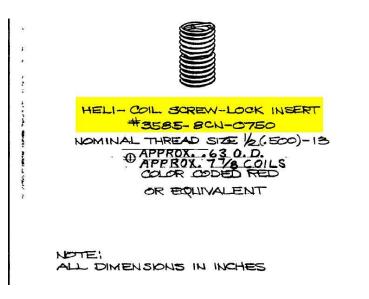
Torque Spec on Inlet Flange:

- Inserts: 150 in-lb max to install new inserts;
- Bolts: 50-55 ft-lb in a cross pattern.





Heli-Coil Insert Drawing:





Material Disposition:

Hold material 30 days for warrantable repairs, and follow instructions in the Warranty system for material return or discard. If non-warrantable, dispose of parts properly in accordance with local regulations.

Warranty Strategy:

N/A

Additional Comments:

N/A

For Additional Information:

Knowledge Base: <u>IRToolHelp</u> Technical/Warranty Support: Contact Ingersoll Rand Technical Support at <u>irtoolhelp@irco.com</u>.

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