

powercoil®

wire thread insert system



M2 – M12 (1/8" – 1/2") PowerCoil Thread Repair Kits include all the necessary components to successfully repair damaged threads. Kits include Drill, STI Tap, Inserts, Installation Tool and Tang Break-Off Tool.

The PowerCoil Wire Thread Insert System includes a complete range of over 140 Thread Repair Kits; Free Running & Screw Locking inserts; Strip Feed Inserts; STI Hand & Machine Taps; Installation, Tang Break & Removal Tools.

wire thread insert system features & benefits

- Lighter and Cheaper than any other equivalent type of thread insert.
- Can generally be introduced into existing designs where no previous provision has been made.
- Increase quality and performance whilst reducing overall product cost.
- Providing threads that stay tight.
- Their introduction may result in the use of thinner sections or lighter parent materials without sacrificing thread strength.
- Create internal threads with greatly improved distribution of residual stress loading
- Compensate for pitch and flank angle errors
- Create internal threads in which wear due to thread friction is virtually eliminated.

wire thread insert system installation instructions

1 DRILL



Drill to clear the damaged thread with a standard twist drill. Thread Repair Kits up to M12 (1/2") include the correct size drill. The required tapping drill size is shown on the front of this pack.



Note: Spark Plug inserts utilise a pilot nose tap which does not require pre-drilling.

2 TAP



Use the specified tap to cut the holding thread into the cleared hole. When tapping a hole, it is recommended to use a suitable lubricant.



Note: Wire Thread Inserts require the use of STI taps which are slightly oversize to provide the correct hole diameter. Always check that the thread and pitch of the tap are the same as the bolt you wish to insert into the finished hole.

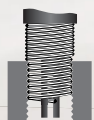
3 INSERT



Loosen the grub screw and slide the collar along the insert tool shaft so that the tang on the insert is positioned half way up the insert tool slot.



Note: Do not position tang at the very top or bottom of the insert tool slot.



Use the installation tool to wind the insert into the threaded hole using light downward pressure until half a turn below the surface.



Note: Do not work against the thread direction as the tang may break off.

4 SNAP



Lift installation tool, rotate 90° and tap down sharply to break off wire thread insert tang. Use the tang break off tool to perform this function where supplied.



Note: For spark plug and large inserts use long nose pliers to remove the tang.

5 DONE!



You have successfully repaired your damaged thread. The new thread is normally stronger than the original.

PowerCoil military standards available:
MA3279, MA3280, MA3281,
NASM122076-124850
MA3329, MA3330, MA3331
and NASM21209

distributed by



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Loksert[®]

Loksert[®]

Loksert solid keylocking inserts are used to repair damaged or worn out threads or to create new threads in original equipment.

Loksert keylocking one piece inserts are available in carbon steel and stainless steel in both metric and inch sizes.

The Loksert solid keylocking insert utilizes locking keys which provide a positive mechanical lock into the threads of the surrounding base material. The resulting thread is resistant to rotation due to vibration and torsion. Loksert solid keylocking inserts require no special drills or taps.



Loksert[®]

standards available

MS51830, MS51831, MS51832,
NAS1394, NAS1395, NA0146-NA0151



solid keylocking insert system features & benefits

- Solid, one-piece insert provides a high degree of pull-out strength.
- Keys provide a positive mechanical lock preventing rotation.
- Simple installation and removal.
- Installed using standard drills and taps.
- No prewinder or expensive installation tools required.
- No tang to break off.
- Available in carbon steel and stainless steel.
- Suitable for use in a wide variety of materials.
- Also available in MS/NAS Standards.

solid keylocking insert system installation instructions



1 DRILL

Drill to clear the damaged thread with a standard twist drill. Chamfer the hole with a standard countersink (82° - 100°)



Note: Drill is oversize to accommodate external thread. Check technical charts for correct drill sizes.

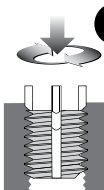


2 TAP

Create new thread using a standard tap. Check technical charts for correct tap size.

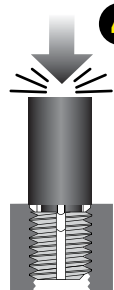


Note: Use of a suitable lubricant is essential during all tapping procedures.



3 INSERT

Screw the insert into the threaded hole until slightly below the surface of the parent material.



4 DRIVE

Select the correct size installation tool and place over the insert. Drive locking keys down using several hammer taps on end of installation tool.

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