

powercoil®

wire thread insert system



PowerCoil Thread Repair Kits include a Premium Quality HSS Tapping Drill and Bonus Inserts*

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.



SPARK PLUG REPAIR KITS

Include Pilot Nose Tap & Spark Plug Inserts

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.
- 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.
- Providing threads that stay tight.

merchandising and marketing benefits

- **Sold to Distributors Only**
- **Tough and Good Looking** – Clean, modern, slim-line design of robust construction.
- **Stackable** – Subtly integrated feet interlock top and bottom of cases for secure vertical stacking.
- **Full Color Label** – In protective recess on front of box for strong in-store presence. Instruction label included on inside of lid to aid user. Rear identification label also included on base of case for warehousing and product coding.
- **Flexible Rubber Tool Holder** – This provides a neater overall kit appearance, and prevents tools from rattling around inside the box.
- **Hanger Slide Latch** – Locks the lid positively and easily, with integrated hang point for in-store display.
- **Insert Storage** – Internal ribs prevent inserts from moving to other areas of the box. "Exit Ramps" to assist in removal of smaller inserts from compartments.
- **Competitive and Same Day Shipments!**



*Spark Plug Thread Repair Kits are supplied with an STI Pilot Nose Tap and do not include an HSS Tapping Drill. Thread Repair Kits over M12 (1/2") and BSP kits do not include a HSS Tapping Drill.



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sales@crossroad.com

| PART NUMBERS | | |
|--------------|---------|---------|
| SIZE | KIT No. | INSERTS |

| METRIC | | |
|-----------|-------------|-----------------|
| M2-.4 | 3520-2.00K | 3520-2.00X1.5D |
| M2.2-.4 | 3520-2.20K | 3520-2.20X1.5D |
| M2.5-0.45 | 3520-2.50K | 3520-2.50X1.5D |
| M3-.5 | 3520-3.00K | 3520-3.50X1.5D |
| M3.5-.6 | 3520-3.50K | 3520-3.50X1.5D |
| M4-.7 | 3520-4.00K | 3520-4.00X1.5D |
| M5-.8 | 3520-5.00K | 3520-5.00X1.5D |
| M6-1.0 | 3520-6.00K | 3520-6.00X1.5D |
| M7-1.0 | 3520-7.00K | 3520-7.00X1.5D |
| M8-1.25 | 3520-8.00K | 3520-8.00X1.5D |
| M8-1.0 | 3521-8.00K | 3521-8.00X1.5D |
| M9-1.25 | 3520-9.00K | 3520-9.00X1.5D |
| M10-1.5 | 3520-10.00K | 3520-10.00X1.5D |
| M10-1.25 | 3521-10.00K | 3521-10.00X1.5D |
| M10-1.0 | 3523-10.00K | 3523-10.00X1.5D |
| M11-1.5 | 3520-11.00K | 3520-11.00X1.5D |
| M11-1.25 | 3521-11.00K | 3521-11.00X1.5D |
| M11-1.0 | 3523-11.00K | 3523-11.00X1.5D |
| M12-1.75 | 3520-12.00K | 3520-12.00X1.5D |
| M12-1.5 | 3521-12.00K | 3521-12.00X1.5D |
| M12-1.25 | 3523-12.00K | 3523-12.00X1.5D |
| M12-1.0 | 3524-12.00K | 3524-12.00X1.5D |
| M14-2.0 | 3520-14.00K | 3520-14.00X1.5D |
| M14-1.5 | 3521-14.00K | 3521-14.00X1.5D |
| M14-1.25 | 3523-14.00K | 3523-14.00X1.5D |
| M14-1.0 | 3524-14.00K | 3524-14.00X1.5D |
| M16-2.0 | 3520-16.00K | 3520-16.00X1.5D |
| M16-1.5 | 3521-16.00K | 3521-16.00X1.5D |
| M18-2.5 | 3520-18.00K | 3520-18.00X1.5D |
| M18-2.0 | 3521-18.00K | 3521-18.00X1.5D |
| M18-1.5 | 3523-18.00K | 3523-18.00X1.5D |
| M20-2.5 | 3520-20.00K | 3520-20.00X1.5D |
| M20-2.0 | 3521-20.00K | 3521-20.00X1.5D |
| M20-1.5 | 3523-20.00K | 3523-20.00X1.5D |
| M22-2.5 | 3520-22.00K | 3520-22.00X1.5D |
| M22-2.0 | 3521-22.00K | 3521-22.00X1.5D |
| M22-1.5 | 3523-22.00K | 3523-22.00X1.5D |
| M24-3.0 | 3520-24.00K | 3520-24.00X1.5D |
| M24-2.0 | 3521-24.00K | 3521-24.00X1.5D |
| M24-1.5 | 3523-24.00K | 3523-24.00X1.5D |
| M26-1.5 | 3523-26.00K | 3523-26.00X1.5D |
| M27-3.0 | 3520-27.00K | 3520-27.00X1.5D |
| M27-2.0 | 3521-27.00K | 3521-27.00X1.5D |
| M27-1.5 | 3523-27.00K | 3523-27.00X1.5D |
| M28-1.5 | 3523-28.00K | 3523-28.00X1.5D |
| M30-3.5 | 3520-30.00K | 3520-30.00X1.5D |
| M30-2.0 | 3521-30.00K | 3521-30.00X1.5D |
| M30-1.5 | 3523-30.00K | 3523-30.00X1.5D |

PowerCoil Inserts
 Made from high quality Diamond shape 304 stainless steel (AS7245) wire, inserts are wound to the shape of a spring thread. The insert, larger in diameter than the tapped hole, is compressed during installation, then springs back to permanently anchor the insert in the tapped hole. Can be used in applications where temperatures range up to 800°F/430°C

| PART NUMBERS | | |
|--------------|---------|---------|
| SIZE | KIT No. | INSERTS |

| METRIC (Cont) | | |
|---------------|-------------|-----------------|
| M33-3.5 | 3520-33.00K | 3520-33.00X1.5D |
| M33-2.0 | 3521-33.00K | 3521-33.00X1.5D |
| M36-4.0 | 3520-36.00K | 3520-36.00X1.5D |
| M36-3.0 | 3521-36.00K | 3521-36.00X1.5D |
| M36-2.0 | 3523-36.00K | 3523-36.00X1.5D |
| M36-1.5 | 3524-36.00K | 3524-36.00X1.5D |
| UNC | | |
| 2-56 | 3532-2GK | 3532-2GX1.5D |
| 4-40 | 3532-4GK | 3532-4GX1.5D |
| 5-40 | 3532-4GK | 3532-5GX1.5D |
| 6-32 | 3532-6GK | 3532-6/32X1.5D |
| 8-32 | 3532-8GK | 3532-8/32X1.5D |
| 10-24 | 3532-10GK | 3532-10/24X1.5D |
| 12-24 | 3532-12GK | 3532-12GX1.5D |
| 1/4-20 | 3532-1/4K | 3532-1/4X1.5D |
| 5/16-18 | 3532-5/16K | 3532-5/16X1.5D |
| 3/8-16 | 3532-3/8K | 3532-3/8X1.5D |
| 7/16-14 | 3532-7/16K | 3532-7/16X1.5D |
| 1/2-13 | 3532-1/2K | 3532-1/2X1.5D |
| 9/16-12 | 3532-9/16K | 3532-9/16X1.5D |
| 5/8-11 | 3532-5/8K | 3532-5/8X1.5D |
| 3/4-10 | 3532-3/4K | 3532-3/4X1.5D |
| 7/8-9 | 3532-7/8K | 3532-7/8X1.5D |
| 1-8 | 3532-1K | 3532-1X1.5D |
| 1 1/8-7 | 3532-1.1/8K | 3532-1.1/8X1.5D |
| 1 1/4-7 | 3532-1.1/4K | 3532-1.1/4X1.5D |
| 1 3/8-6 | 3532-1.3/8K | 3532-1.3/8X1.5D |
| 1 1/2-6 | 3532-1.1/2K | 3532-1.1/2X1.5D |
| UNF | | |
| 4-48 | 3534-4GK | 3534-4GX1.5D |
| 6-40 | 3534-6GK | 3534-6GX1.5D |
| 8-36 | 3534-8GK | 3534-8GX1.5D |
| 10-32 | 3534-10GK | 3534-10/32X1.5D |
| 1/4-28 | 3534-1/4K | 3534-1/4X1.5D |
| 5/16-24 | 3534-5/16K | 3534-5/16X1.5D |
| 3/8-24 | 3534-3/8K | 3534-3/8X1.5D |
| 7/16-20 | 3534-7/16K | 3534-7/16X1.5D |
| 1/2-20 | 3534-1/2K | 3534-1/2X1.5D |
| 9/16-18 | 3534-9/16K | 3534-9/16X1.5D |
| 5/8-18 | 3534-5/8K | 3534-5/8X1.5D |
| 3/4-16 | 3534-3/4K | 3534-3/4X1.5D |
| 7/8-14 | 3534-7/8K | 3534-7/8X1.5D |
| 1-12 | 3534-1K | 3534-1X1.5D |
| 1-14 | 3535-1K | 3535-1X1.5D |
| 1 1/8-12 | 3534-1.1/8K | 3534-1.1/8X1.5D |
| 1 1/4-12 | 3534-1.1/4K | 3534-1.1/4X1.5D |
| 1 3/8-12 | 3534-1.3/8K | 3534-1.3/8X1.5D |
| 1 1/2-12 | 3534-1.1/2K | 3534-1.1/2X1.5D |


Specifications
 Inserts are manufactured to all applicable procurement and design specifications:
 - NASM 122076 - 122275 - UNC Free-Running Helical Inserts
 - NASM 124651 - 124850 - UNF Free-Running Helical Inserts
 - NASM 21209 - Unified Screw-Lock Helical Inserts
 - MA 3279, 3280, 3281 - Metric Free-Running Helical Inserts
 - MA 3329, 3330, 3331 - Metric Screw-Lock Helical Inserts
 Inserts are also available in Inconel X-750 (AS7246), Phosphor Bronze (DIN17677 or BS2783 PB102), 316 Stainless Steel (AISI316)

| PART NUMBERS | | |
|--------------|---------|---------|
| SIZE | KIT No. | INSERTS |

| SPARKPLUG | | |
|------------|--------------|-----------------|
| M10-1.0 | 3522-10.00K | 3522-10.00X1/2 |
| | | 3522-10.00X.339 |
| M12-1.25 | 3522-12.00K | 3522-12.00X1/2 |
| | | 3522-12.00X3/4 |
| M14-1.25 | 3532-14.00K1 | 3522-14.00X3/8 |
| | | 3522-14.00X1/2 |
| | | 3522-14.00X3/4 |
| BSF | | |
| 3/16-32 | 3530-3/16K | 3530-3/16X1.5D |
| 1/4-26 | 3530-1/4K | 3530-1/4X1.5D |
| 5/16-22 | 3530-5/16K | 3530-5/16X1.5D |
| 3/8-20 | 3530-3/8K | 3530-3/8X1.5D |
| 7/16-18 | 3530-7/16K | 3530-7/16X1.5D |
| 1/2-16 | 3530-1/2K | 3530-1/2X1.5D |
| 9/16-16 | 3530-9/16K | 3530-3/16X1.5D |
| 5/8-14 | 3530-5/8K | 3530-5/8X1.5D |
| 3/4-12 | 3530-3/4K | 3530-3/4X1.5D |
| 7/8-11 | 3530-7/8K | 3530-7/8X1.5D |
| 1-10 | 3530-1K | 3530-1X1.5D |
| BSP | | |
| 1/8-28 | 3546-1/8K | 3546-1/8X1.5D |
| 1/4-19 | 3546-1/4K | 3546-1/4X1.5D |
| 3/8-19 | 3546-3/8K | 3546-3/8X1.5D |
| 1/2-14 | 3546-1/2K | 3546-1/2X1.5D |
| 5/8-14 | 3546-5/8K | 3546-5/8X1.5D |
| 3/4-14 | 3546-3/4K | 3546-3/4X1.5D |
| 7/8-14 | 3546-7/8K | 3546-7/8X1.5D |
| 1-11 | 3545-1K | 3545-1X1.5D |
| BSW | | |
| 3/16-24 | 3528-3/16K | 3528-3/16X1.5D |
| 1/4-20 | 3528-1/4K | 3528-1/4X1.5D |
| 5/16-18 | 3528-5/16K | 3528-5/16X1.5D |
| 3/8-16 | 3528-3/8K | 3528-3/8X1.5D |
| 7/16-14 | 3528-7/16K | 3528-7/16X1.5D |
| 1/2-12 | 3528-1/2K | 3528-1/2X1.5D |
| 9/16-12 | 3528-9/16K | 3528-9/16X1.5D |
| 5/8-11 | 3528-5/8K | 3528-5/8X1.5D |
| 3/4-10 | 3528-3/4K | 3528-3/4X1.5D |
| 7/8-9 | 3528-7/8K | 3528-7/8X1.5D |
| 1-8 | 3528-1K | 3528-1X1.5D |
| NPT | | |
| 1/8-27 | 3552-1/8K | 3552-1/8X1.5D |
| 1/4-18 | 3552-1/4K | 3552-1/4X1.5D |
| 3/8-18 | 3552-3/8K | 3552-3/8X1.5D |
| 1/2-14 | 3552-1/2K | 3552-1/2X1.5D |
| 3/4-14 | 3552-3/4K | 3552-3/4X1.5D |
| 1-11 1/2 | 3552-1K | 3552-1X1.5D |

PowerCoil Range
 - Inserts are available in five lengths, 1 X Dia to 3 X Dia.
 - Inserts available as replacement packs (for many sizes), bulk or stripfeed.
 - Inserts available in free-running or screw-lock styles for applications where the thread assembly may be subject to vibration.
 - Dry Film Lubricant, Cadmium and Silver Platings available.

| PART NUMBERS | | |
|--------------|---------|---------|
| SIZE | KIT No. | INSERTS |

| 8- PITCH UN | | |
|---|-------------|-----------------|
| 1.1/8-8 | 3570-1.1/8K | 3570-1.1/8X1.5D |
| 1.1/4-8 | 3570-1.1/4K | 3570-1.1/4X1.5D |
| 1.3/8-8 | 3570-1.3/8K | 3570-1.3/8X1.5D |
| 1.1/2-8 | 3570-1.1/2K | 3570-1.1/2X1.5D |
| 1.5/8-8 | 3570-1.5/8K | 3570-1.5/8X1.5D |
| 1.3/4-8 | 3570-1.3/4K | 3570-1.3/4X1.5D |
| 1.7/8-8 | 3570-1.7/8K | 3570-1.7/8X1.5D |
| 2-8 | 3570-2K | 3570-2X1.5D |
| RANGE KITS | | |
| SIZES INCLU DE D | | PART No. |
| UNC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 | | 3532-WK1 |
| UNF 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20 | | 3534-WK1 |
| METRIC M5- 8, M6-1, M8-1.25, M10-1.5, M12-1.75 | | 3520-WK1 |
| METRIC M5- 8, M6-1, M8-1.25, M10-1.5, M12-1.75, M14-1.25 SPARKPLUG | | 3522-WK4 |
| Distributed by: | | |
|  | | |

Tooling
 Featuring the simple hand installation tool for general maintenance use, in addition to a wide range of semi-automatic and pneumatic installations tools. HSS STI taps available in straight flute, sprial point, sprial flute, and pilot nose styles.