



# THREAD REPAIR SOLUTIONS FOR THE AUTOMOTIVE AFTERMARKET

## INTRODUCTION

## **CONDITIONS OF SALE**

- PRICES: All prices quoted exclude GST and are subject to change without notice. Export shipments are not subject to GST. All prices quoted in Australian Dollars unless otherwise stated
- FREIGHT TERMS: Bordo International Pty Ltd ("Bordo") has no minimum invoice value. All orders over \$250 nett exclusive of GST are freight-free prices are ex-warehouse. Bordo reserves the right to despatch freight-free orders by a carrier and method of its choosing. Freight-free orders are calculated on a \$250 nett exclusive of GST basis per order for each warehouse dispatch. Drop-shipments incur freight charges. Where the order is under \$250 nett exclusive of GST the customer is responsible for all costs associated with delivery. Any period for delivery of goods stated by Bordo is an estimate only and not a contractual commitment. Bordo will use its reasonable endeavours to meet any estimated dates for delivery of the goods but will not be liable for any loss or damage suffered by the customer or any third party for failure to meet an estimated date. The customer indemnifies Bordo against any loss or damage suffered by Bordo, its subcontractors or employees as a result of delivery, except where the "consumer" as defined in the Australian Consumer Schedule of the Competition and Consumer Act 2010 (Cth) as amended ("ACL") and Bordo has not used due care and skill.
- PAYMENT TERMS: Unless otherwise agreed in writing payment for the goods or services must be made in full within 30 days from the end of the month of the date of Bordo's invoice. Bordo reserves the right to require payment in full on delivery of the goods. Payment by cheque is not deemed made until the proceeds of the cheque have cleared. Payment terms may be revoked or amended at Bordo's sole discretion immediately upon giving the customer written or verbal notice. The time for payment is of the essence.
- DAMAGE, DEFECTS AND LOSS IN TRANSIT: Bordo will not be liable for any shortages or non compliance with the specifications in these Terms and Conditions unless the customer notifies Bordo with full details and description within 10 working days of delivery to the customer. Where any shortages, claim for damaged goods or non compliance with the agreement specifications is accepted by Bordo, Bordo may, at its option, repair or replace the goods or refund or credit the portion of the purchase price. Bordo will not under any circumstances accept goods for return that have been specifically produced, imported or acquired to fulfill the agreement, that are discontinued goods or no longer stocked by Bordo, that have been altered in any way, that have been used, or that are not in their original condition and packaging. If the customer is a consumer, nothing in this clause limits any remedy available for a failure of the statutory guarantees in the ACL.
- CREDIT INFORMATION:
  - 5.1. Bordo may seek consumer credit information (section 18K(1)(b), Privacy Act 1988). If Bordo considers it relevant to assessing the customer's application for commercial credit the customer agrees to Bordo obtaining from a credit reporting agency a credit report containing personal credit information about the customer and to conducting a search of the Personal Property Securities Register for the purpose of assessing the customer's application for commercial credit.
  - 5.2. Exchanging information with other credit providers (Section 18N(1)(b), Privacy Act 1988). The customer agrees to Bordo obtaining personal information about the customer from other credit providers whose names the customer may have provided for Bordo or that may be named in a credit report, and from the Personal Property Securities Register, for the purpose of assessing the customer's application for commercial credit.
  - Agreement to a credit provider being given a consumer credit report to collect overdue payments on commercial credit (Section 18K(1)(h) Privacy Act 1988). The customer agrees that Bordo may obtain a consumer credit report about the customer from a credit reporting agency for the purpose of collecting overdue payments relating to commercial credit owed by the customer.
- - 6.1. Until Bordo receives full payment in cleared funds for all goods supplied by it to the customer, as well as all other amounts owing to Bordo by the customer:
    - title and property in all goods remains vested in Bordo and does not pass to the customer:
    - the customer must hold the goods as fiduciary bailee and agent for Bordo;
    - the customer must keep the goods separate from its own goods and maintain Bordo's labelling and packaging;
    - the customer must hold the proceeds of sale of the goods on trust for Bordo in a separate account with a bank to whom the customer has not given security however failure to do so will not affect (d) the customer's obligation as trustee;
    - in addition to its rights under the Personal Property Securities Act 2009 (Cth) ("PPSA"), Bordo may without notice, enter any premises where it suspects the goods are and remove them, notwithstanding that they may have been attached to other goods not the property of Bordo, and for this purpose the customer irrevocably licences Bordo to enter such premises and also indemnifies Bordo from and against all costs, claims, demands or actions by any party arising from such action.
  - 6.2. The customer warrants that it is not at the time of placing an order for goods or services insolvent and knows of no circumstances which would entitle any creditor to appoint a receiver or to petition for winding up or to exercise any other rights over or against its assets
  - If any of these retention of title provisions are construed to be invalid or not enforceable in accordance with their terms all other provisions which are self-sustaining and capable of separate enforcement without regard to the invalid provisions shall be and continue to be valid and enforceable in accordance with their terms.
- PERSONAL PROPERTY SECURITIES ACT.
  - Notwithstanding anything to the contrary contained in these Terms and Conditions, the PPSA applies to these Terms and Conditions.
  - 7.2. For the purposes of the PPSA:
    - terms used in this clause 7 that are defined in the PPSA have the same meaning as in the PPSA;
    - (b) these Terms and Conditions are a security agreement and Bordo has a Purchase Money Security Interest in all present and future goods supplied by Bordo to the customer and the proceeds of
    - the security interest is a continuing interest irrespective of whether there are monies or obligation owing by the customer at any particular time; and
    - the customer must do whatever is necessary in order to give a valid security interest over the goods and their proceeds which is able to be registered by Bordo on the Personal Property Securities
  - The security interest arising under this clause 7 attaches to the goods when the goods are collected or dispatched from Bordo's premises and not at any later time.

    Where permitted by the PPSA, the customer waives any rights to receive the notifications, verifications, disclosures or other documentation specified under sections 95, 118, 121(4), 130, 132(3)(d),
  - 132(4), 135 and 157 of the PPSA.
  - 7.5 Bordo and the customer agree to contract out of and nothing in the provisions of sections 96, 125, 129, 142 and 143 of the PPSA will apply to these Terms and Conditions.
  - 7.6. To the extent permitted by the PPSA, the customer agrees that:
    - the provisions of Chapter 4 of the PPSA which are for the benefit of the customer or which place obligations on Bordo will apply only to the extent that they are mandatory or Bordo agrees to their application in writing; and
    - where Bordo has rights in addition to those in Chapter 4 of the PPSA, those rights will continue and apply.
  - The customer must immediately upon Bordo's request:

    - do all things and execute all documents necessary to give effect to the security interest created under these Terms and Conditions; and procure from any person considered by Bordo to be relevant to its security position such agreements and waivers (including as equivalent to those above) as Bordo may at any time require.
  - Bórdo may allocate amounts received from the customer in any manner Bordo determines, including in any manner required to preserve any Purchase Money Security Interest it has in goods supplied by Bordo
- 8. CREDITS/RETURNS: Except to the extent of any liability imposed by the ACL, authorisation must be obtained before returning goods for credit. No goods will be accepted for credit that are correctly supplied and invoiced if not returned freight paid within 14 days and delivery freight will be charged. Also a 15% restocking fee will be charged for any goods supplied correctly. Goods forwarded in error will be replaced no charge freight paid. Goods incorrectly sent must be held by the customer pending our further instruction. 9. LIABILITY:
  - 9.1. Except as these Terms and Conditions specifically state, these Terms and Conditions do not include by implication any other term, condition or warranty in respect of the quality, merchantability, acceptability, fitness for purpose, condition, description, assembly, manufacture, design or performance of the goods or services or any contractual remedy for their failure. 9.2. If the customer is a consumer nothing in these Terms and Conditions restricts, limits or modifies the customer's rights or remedies against Bordo for failure of a statutory quarantee under the ACL
    - 9.3. If the customer on-supplies the goods to a consumer:
    - - (a) if the goods or services are not of a kind ordinarily acquired for personal, domestic or household use or consumption, then the amount specified in section 276A(1) of the ACL is the absolute limit of Bordo's liability to the customer;
    - if the goods are of a kind ordinarily acquired for personal, domestic of household use or consumption, then payment of any amount required under section 274 of the ACL is the absolute limit of Bordo's liability to the customer howsoever arising under or in connection with the sale, installation, use of, storage or any other dealings with the goods by the customer or any third party.

      9.4. If clause 9.2 or 9.3 does not apply, then other than as stated in these Terms and Conditions Bordo is not liable to the customer in any way howsoever arising under or in connection with the sale,
    - installation, use of, storage or any other dealings with the goods or services by the customer or any third party. 95 Bordo is not liable for any indirect or consequential losses or expenses suffered by the customer or any third party, howsoever caused, including but not limited to loss of turnover, profits, business or goodwill or any liability to any other party, except to the extent of any liability imposed by the ACL.
    - The customer acknowledges that:
      - it has not relied on any service involving skill and judgement, or on any advice, recommendation, information or assistance provided by Bordo in relation to the goods or their use or application; it has not made known, either expressly or by implication, to Bordo any purpose for which it requires the goods and it has the sole responsibility of satisfying itself that the goods are suitable for the use of the customer.
    - 9.7. Nothing in these Terms and Conditions is to be interpreted as excluding, restricting or modifying the application of any State or Federal legislation applicable to the sale of goods which cannot be so excluded restricted or modified
- TRADING TERMS AND CONDITIONS: Are subject to change without notice. Trading terms and conditions appear on the Account Application Form, our web site (www.bordo.com.au), or are available on request.

DISCLAIMER Whilst every effort has been made to ensure the accuracy of the information contained herein, Bordo International Pty Ltd accepts no liability for any loss or damage either direct or consequential arising out of, or in relation to, the use or application of the said information or products referred to herein. All information is believed to be correct at time of printing. E.&O.E.

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Pitch (TPI)

**M** 

Pitch (mm)



Wire Thread Insert



PlugFix Solid Insert Length







Drill Size

Tap Part #







Tang Break

60°

Metric Coarse/Fine UNC/UNF Intermediate Chrome Alloy Hand Tap



Metric Fine Spark Plug Pilot Nose Chrome Alloy Hand Tap



ProThread Clam Shell Repair Kit



ProThread Pro-Series Repair Kit includes HSS drill



ProThread Insert Packet

Manufactured from high quality chromium nickel stainless steel, ProThread Wire Thread Inserts provide high strength internal threads that resist the effects of temperature and corrosion. Their unique design ensures superior threads whose compound performance cannot be reproduced by any other single fastening method. Wire Thread inserts are much lighter and less expensive than any other equivalent type of thread insert and because of their compact size they can generally be incorporated into existing designs where no previous provision has been made.

### **Features & Benefits**

For many years, helically coiled wire thread inserts have been vastly underestimated. The popular misconception that they were only designed for the repair of damaged threads has given this unique fastener a false image.

They are much lighter and less expensive than any other equivalent type of thread insert and, because of their compact size, can generally be introduced into existing designs where no previous provision has been made. Unlike many other economic measures, their introduction increases 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.

They protect tapped threads against failures due to stripping, seizing, corrosion and wear. ProThread wire thread inserts are produced from austenitic stainless steel wire which is work hardened to a tensile strength above 200,000psi and a hardness of Rc43-50. The inserts have an exceedingly smooth surface finish which virtually eliminates friction-induced thread erosion.

The continuous helically coiled design negates the need for thick wall structures to support the internal and external threads - the diamond profile wire coil *is* the thread. ProThread wire thread inserts can be installed in reduced size bosses or flanges and within constricted areas — saving space and weight while providing high strength. A boss radius equal to the nominal bolt diameter is usually sufficient. A complete range of installation tools are available to suit specific production techniques.

## Strength

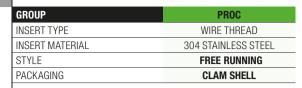
Due to their flexibility, wire thread inserts create internal threads which have a much improved distribution of residual stress loading when compared with conventional tapped holes, where 75% of the shearing forces are carried by the first three threads in the tapped hole. The flexibility of wire thread inserts helps to compensate for pitch and flank angle errors, inherent in normal tapped holes, and significantly enhances the load bearing capacity by deflecting the residual forces into a helical hoop stress which is dispersed into the wall of the tapped hole. This enables the design to be confidently based on the bolt strength utilising smaller and shorter threads even when used in low strength materials. The high tensile coils of a wire thread insert undergo a diameter reduction during installation. The outward spring-like force of the coils "locks" the insert into place. Each coil can flex independently to contact the greatest amount of parent material thread surface. Both static and dynamic load bearing capabilities are improved.

### **Eliminate Stress**

Virtually no stress is introduced into the parent material because there is no staking, locking, swaging or keying in place. The outward "spring action" of the insert holds it in place.

## **Wear Resistance**

The combination of material hardness and the brilliant surface finish of wire thread inserts creates internal threads in which wear due to thread friction is virtually eliminated. This is of particular value in applications requiring repeated assembly & disassembly. The low frictional coefficient ensures that virtually all of the applied assembly torque is converted into clamping load, thus providing threads that stay tight.









It is recommended that when repairing the thread on spark plug ports that you remove the head.

If you do not remove the head it is essential that you protect the engine from the ingress of chips and swarf generated by the tapping process.



STI Pilot Nose Taps are used to repair damaged threads and do not require the drilling of a pilot hole.

These taps use the existing thread as a guide in tapping a straight hole. STI Pilot Nose Taps are most commonly used to tap holes for the repair of spark plug threads.

* Tapping drill not
included in thread
renair kit

THREAD REPAIR KITS – CLAM SHELL											
		L	J			_		11	Л		
(+D+)	14MM					46		60°			
MM	MM	INSTALL	ED LENGTH	\$	PART #	#	MM	PART #	PART #		
METRIC	COARSE	/ METRI	C FINE								
5.00	0.80	1.5D	7.50MM	22.67	3598-508K	3	5.2*	3597-5081	3500-HIT8-GB		
6.00	1.00	1.5D	9.00MM	22.67	3598-61K	3	6.3*	3597-611	3500-HIT9-GB		
7.00	1.00	1.5D	10.50MM	22.67	3598-71K	3	7.3*	3597-711	3500-HIT10-GB		
8.00	1.25	1.5D	12.00MM	26.99	3598-8125K	3	8.3*	3597-81251	3500-HIT11-GB		
10.00	1.25	1.5D	15.00MM	33.47	3598-10125K	3	10.3*	3597-101251	3500-HIT13-GB		
10.00	1.50	1.5D	15.00MM	33.47	3598-1015K	3	10.4*	3597-10151	3500-HIT13-GB		
12.00	1.50	1.5D	18.00MM	41.02	3598-1215K	3	12.4*	3597-12151	3500-HIT15-GB		
12.00	1.75	1.5D	18.00MM	41.02	3598-12175K	3	12.5*	3597-121751	3500-HIT15-GB		
(+D+)	<b>+</b>	40000	300000					60°			
		M				A0			П		
MM	MM	INSTALL	ED LENGTH	\$	PART #	#	MM	PART #	PART #		
SPARK											
12.00	1.25	-	1/2"	53.98	3598-12125K	2	_	3597-12125PN	3500-HIT15-GB		
		-	3/4"		_	2	_	_	_		
14.00	1.25	-	3/8"	55.06	3598-14125K	2	_	3597-14125PN	3500-HIT17-GB		
		_	1/2"	-	-	2	_	_	_		
		_	3/4"	-	_	2	_	_	-		
(+D+)	<b> </b>	40000	388888					60°	₽		
						40		4-5	П		
INCH	TPI	INSTALL	ED LENGTH	\$	PART #	#	MM	PART #	PART #		
UNC											
No.6	32	1.5D	0.21"	30.23	3598-632K	3	3.7*	3597-6321	3500-HIT5-GB		
No.8	32	1.5D	0.25"	30.23	3598-832K	3	4.4*	3597-8321	3500-HIT6-GB		
No.10	24	1.5D	0.28"	24.83	3598-1024K	3	5.1*	3597-10241	3500-HIT7-GB		
1/4	20	1.5D	0.38"	24.83	3598-1420K	3	6.7*	3597-14201	3500-HIT9-GB		
5/16	18	1.5D	0.47"	24.83	3598-51618K	3	8.3*	3597-516181	3500-HIT10-GB		
3/8	16	1.5D	0.56"	31.31	3598-3816K	3	9.9*	3597-38161	3500-HIT13-GB		
7/16 1/2	14 13	1.5D 1.5D	0.66" 0.75"	36.70 39.94	3598-71614K 3598-1213K	3	11.6* 13.0*	3597-71614l 3597-1213l	3500-HIT14-GB 3500-HIT15-GB		
UNF	13	1.3D	0.75	<b>39.94</b>	3080-1213N	J	13.0	3081-12131	2200-HH 12-GB		
No.10	32	1.5D	0.28"	24.83	3598-1032K	3	5.1*	3597-1032	3500-HIT8-GB		
1/4	28	1.5D	0.28"	24.83	3598-1428K	3	6.7*	3597-10321	3500-HIT9-GB		
5/16	24	1.5D	0.47"	24.83	3598-51624K	3	8.3*	3597-516241	3500-HIT11-GB		
3/8	24	1.5D	0.56"	31.31	3598-3824K	3	9.8*	3597-38241	3500-HIT13-GB		
7/16	20	1.5D	0.66"	36.70	3598-71620K	3	11.5*	3597-716201	3500-HIT14-GB		
1/2	20	1.5D	0.75"	39.94	3598-1220K	3	13.0*	3597-12201	3500-HIT15-GB		



**GROUP PROC** INSERT TYPE SOLID KNURLED PACKAGING CLAM SHELL





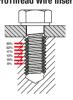


GROUP	PROC
INSERT TYPE	WIRE THREAD
INSERT MATERIAL	304 STAINLESS STEEL
STYLE	FREE RUNNING
PACKAGING	KIT BOX



Standard Bolt
90- 10- 10- 10- 10- 10- 10- 10- 10- 10- 1
3% 🚅 😂 / /

# Bolt with ProThread Wire Insert



In a conventional threaded joint 75% of the load is placed on the first three threads.

The helical coil design of the ProThread Wire Thread Insert allows the shear allows the snear loading to be transformed into a more desirable radial loading (hoop stress) over the entire length of the insert.

Use of a ProThread Wire Thread Insert results in a far stronger and aluminium alloys.

hread than can
oe obtained by
using conventional
drilling or tapping.
mproved strength
allows designers
o select fasteners
pased on minimum
oolt strength and
allows the use of
smaller diameters
and thread lengths
even in
magnesium
and aluminium

MAM.   STALLED LENGTH   S	PACKAGING KIT BOX										
MM	THREAD	) REPAIR I	KITS – KI	Т ВОХ							
MM	<b>+D</b> +				Websad		46		60°		
3.00					\$	PART #	#	MM		PART #	PART #
				1				1			
1.00				1			<b>-</b>				
1.00		<b>.</b>									
1.00	8.00	1.25	1.5D	12.00MM	37.78	3597-8125K	20	8.3	3597-81251	3500-HIT11-GB	3500-TB12-GB
1.00	10.00	1.25		15.00MM	48.58	3597-10125K		10.3		3500-HIT13-GB	3500-TB13-GB
12.00   1.75		ł — — — — — — — — — — — — — — — — — — —									
14.00   1.50   1.50   21.00MM   75.57   3597-1415K   10   14.4*   3597-1415K   3500-HIT16-GB		<b>†</b>		1							
14.00   2.00   1.5D   21.00MM   75.57   3597-142K   10   14.3"   3597-142I   3500-HIT16-GB		ł — — — — — — — — — — — — — — — — — — —									3500-1815-68
16.00   2.00   1.50   24.00MM   86.36   3597-162K   10   16.5°   3597-162L   3500-HIT18-GB		<b>-</b>									_
MM		ł — — — — — — — — — — — — — — — — — — —									_
SPARK PLUG		+	M			THREAD	46				
10.00   1.00   -     0.339"   64.77     3597-101K   5   -     3597-101PN   3500-HIT13-GB   3500-TB13-GB     1/2"     75.57   3597-125K   5   -     3597-125FN   3500-HIT13-GB   3500-TB15-GB     3500-TB15-GB   3500-TB15-GB   3500-TB15-GB   3500-TB15-GB   3500-HIT13-GB	MM	MM	INSTALL	.ED LENGTH	\$	PART #	#	MM	PART #	PART #	PART #
12.00   1.25	SPARK	PLUG									
12.00   1.25   -	10.00	1.00	-		64.77	3597-101K	5	_	3597-101PN	3500-HIT13-GB	3500-TB13-GB
14.00   1.25						-		_	_	_	_
1.00	12.00	1.25			75.57	3597-12125K	<b>-</b>		3597-12125PN	3500-HI115-GB	3500-1B15-GB
No.6   32   1.50   0.21"   43.18   3597-632K   20   3.8   3597-632I   3500-HIT-6B   3500-TB5-6B   No.10   24   1.50   0.28"   34.54   3597-142K   20   6.7   3597-3816I   3500-HIT-6B   3500-TB1-6B   3500-TB1-6B   37/16   3500-HIT-6B   3500	14 00	1 25			77.73	- 3597-14125K	ł — —		- 3597-14125PN	- 3500-HIT17-GB	
No.6   32   1.5D   0.21"   43.18   3597-632K   20   3.8   3597-632I   3500-HIT5-GB   3500-TB5-GB   3500-TB5-GB   37.16   3500-TB5-GB   3500-	14.00	1.20		1		-			-	-	_
No.6   32   1.5D   0.28"   34.54   3597-1024K   20   3.8   3597-51618K   3500-HIT1-GB   3500-HB1-GB   3500-HB1-G			_		-	_		_	_	_	_
No.6   32   1.5D   0.21"   43.18   3597-632K   20   3.8   3597-632I   3500-HIT5-GB   3500-TB5-GB	<b>D</b>	111111111111111111111111111111111111111	M	→ i		THREAD	46			Θ	
No.6         32         1.5D         0.21"         43.18         3597-632K         20         3.8         3597-632I         3500-HIT5-GB         3500-TB5-GB           No.8         32         1.5D         0.25"         43.18         3597-832K         20         4.4         3597-832I         3500-HIT6-GB         3500-TB6-GB           No.10         24         1.5D         0.28"         34.54         3597-1024K         20         5.2         3597-1024I         3500-HIT9-GB         3500-HB7-GB           5/16         18         1.5D         0.47"         39.94         3597-51618K         20         8.3         3597-51618I         3500-HIT10-GB         3500-TB9-GB           3/8         16         1.5D         0.56"         50.74         3597-3816K         15         9.9         3597-3816I         3500-HIT10-GB         3500-TB12-GB           7/16         14         1.5D         0.66"         52.90         3597-71614K         15         11.6         3597-71614I         3500-HIT10-GB         3500-HIT10-GB </th <th></th> <th>TPI</th> <th>INSTALL</th> <th>ED LENGTH</th> <th>\$</th> <th>PART #</th> <th>#</th> <th>MM</th> <th>PART #</th> <th>PART #</th> <th>PART #</th>		TPI	INSTALL	ED LENGTH	\$	PART #	#	MM	PART #	PART #	PART #
No.8         32         1.5D         0.25"         43.18         3597-832K         20         4.4         3597-832I         3500-HIT6-GB         3500-TB6-GB           No.10         24         1.5D         0.28"         34.54         3597-1024K         20         5.2         3597-1024I         3500-HIT7-GB         3500-TB8-GB           1/4         20         1.5D         0.38"         34.54         3597-1420K         20         6.7         3597-1420I         3500-HIT9-GB         3500-TB9-GB           5/16         18         1.5D         0.47"         39.94         3597-51618K         20         8.3         3597-51618I         3500-HIT10-GB         3500-TB12-GB           3/8         16         1.5D         0.56"         50.74         3597-3816K         15         9.9         3597-3816I         3500-HIT13-GB         3500-TB12-GB           7/16         14         1.5D         0.66"         52.90         3597-71614K         15         11.6         3597-71614I         3500-HIT13-GB         3500-HIT13-GB         3500-HIT13-GB           1/2         13         1.5D         0.75"         61.53         3597-1213K         10         15.0*         3597-91612K         10         15.0*         3597-91612K		20	1 CD	0.041	40.10	2507 6201	00	0.0	2507.0201	2500 HITE OD	2500 TRE CR
No.10         24         1.5D         0.28"         34.54         3597-1024K         20         5.2         3597-1024I         3500-HIT7-GB         3500-TB8-GB           1/4         20         1.5D         0.38"         34.54         3597-1420K         20         6.7         3597-1420I         3500-HIT9-GB         3500-TB9-GB           5/16         18         1.5D         0.47"         39.94         3597-51618K         20         8.3         3597-51618I         3500-HIT10-GB         3500-TB12-GB           3/8         16         1.5D         0.56"         50.74         3597-3816K         15         9.9         3597-3816I         3500-HIT13-GB         3500-TB12-GB           7/16         14         1.5D         0.66"         52.90         3597-1014K         15         11.6         3597-71614I         3500-HIT13-GB         3500-TB12-GB           1/2         13         1.5D         0.75"         61.53         3597-1012K         10         13.0         3597-1213I         3500-HIT13-GB         3500-TB15-GB           9/16         12         1.5D         0.84"         75.57         3597-91612K         10         15.0"         3597-91612I         3500-HIT13-GB         -           1/2         1		ł — — — — — — — — — — — — — — — — — — —					<b>-</b>				
1/4         20         1.5D         0.38"         34.54         3597-1420K         20         6.7         3597-1420I         3500-HIT9-GB         3500-TB9-GB           5/16         18         1.5D         0.47"         39.94         3597-51618K         20         8.3         3597-51618I         3500-HIT10-GB         3500-TB12-GB           3/8         16         1.5D         0.56"         50.74         3597-3816K         15         9.9         3597-3816I         3500-HIT13-GB         3500-TB12-GB           7/16         14         1.5D         0.66"         52.90         3597-71614K         15         11.6         3597-71614I         3500-HIT13-GB         3500-TB14-GB           1/2         13         1.5D         0.75"         61.53         3597-1213K         10         13.0         3597-1213I         3500-HIT16-GB         3500-TB15-GB           9/16         12         1.5D         0.84"         75.57         3597-91612K         10         15.0"         3597-5811I         3500-HIT16-GB         —           5/8         11         1.5D         0.94"         86.36         3597-5811K         10         16.5"         3597-3410I         3500-HIT18-GB         —           1VI         20		<b>.</b>									
3/8         16         1.5D         0.56"         50.74         3597-3816K         15         9.9         3597-3816I         3500-HIT13-GB         3500-HIT13-GB         3500-HIT14-GB         3500-HIT14-GB         3500-HIT14-GB         3500-HIT14-GB         3500-HIT14-GB         3500-HIT14-GB         3500-HIT15-GB         3500-HIT15-GB         3500-HIT15-GB         3500-HIT15-GB         3500-HIT15-GB         3500-HIT16-GB         —		ł — — — — — — — — — — — — — — — — — — —	1.5D	0.38"			20			3500-HIT9-GB	3500-TB9-GB
7/16         14         1.5D         0.66"         52.90         3597-71614K         15         11.6         3597-71614I         3500-HIT14-GB         3500-TB14-GB           1/2         13         1.5D         0.75"         61.53         3597-1213K         10         13.0         3597-1213I         3500-HIT15-GB         3500-TB15-GB           9/16         12         1.5D         0.84"         75.57         3597-91612K         10         15.0*         3597-91612I         3500-HIT16-GB         —           5/8         11         1.5D         0.94"         86.36         3597-5811K         10         16.5*         3597-5811I         3500-HIT18-GB         —           3/4         10         1.5D         1.13"         97.16         3597-3410K         5         19.8*         3597-3410I         3500-HIT20-GB         —           UNF           No.10         32         1.5D         0.28"         34.54         3597-1032K         20         5.1         3597-1032I         3500-HIT3-GB         3500-TB8-GB           1/4         28         1.5D         0.38"         34.54         3597-31428K         20         6.7         3597-1428I         3500-HIT11-GB         3500-TB12-GB	5/16	18	1.5D	0.47"	39.94	3597-51618K	20	8.3	3597-516181	3500-HIT10-GB	3500-TB12-GB
1/2         13         1.5D         0.75"         61.53         3597-1213K         10         13.0         3597-1213I         3500-HIT15-GB         3500-TB15-GB           9/16         12         1.5D         0.84"         75.57         3597-91612K         10         15.0*         3597-91612I         3500-HIT16-GB         —           5/8         11         1.5D         0.94"         86.36         3597-5811K         10         16.5*         3597-5811I         3500-HIT18-GB         —           3/4         10         1.5D         1.13"         97.16         3597-3410K         5         19.8*         3597-3410I         3500-HIT20-GB         —           UNIF           No.10         32         1.5D         0.28"         34.54         3597-1032K         20         5.1         3597-1032I         3500-HIT8-GB         3500-TB8-GB           1/4         28         1.5D         0.38"         34.54         3597-1428K         20         6.7         3597-1428I         3500-HIT9-GB         3500-TB9-GB           5/16         24         1.5D         0.47"         39.94         3597-3824K         20         8.3         3597-3824I         3500-HIT13-GB         3500-HIT13-GB         3500-HIT3-G											
9/16         12         1.5D         0.84"         75.57         3597-91612K         10         15.0*         3597-91612I         3500-HIT16-GB         —           5/8         11         1.5D         0.94"         86.36         3597-5811K         10         16.5*         3597-5811I         3500-HIT16-GB         —           3/4         10         1.5D         1.13"         97.16         3597-3410K         5         19.8*         3597-3410I         3500-HIT20-GB         —           UNIT           No.10         32         1.5D         0.28"         34.54         3597-1032K         20         5.1         3597-1032I         3500-HIT8-GB         3500-TB8-GB           1/4         28         1.5D         0.38"         34.54         3597-1428K         20         6.7         3597-1428I         3500-HIT9-GB         3500-TB9-GB           5/16         24         1.5D         0.47"         39.94         3597-3824K         20         8.3         3597-51624I         3500-HIT1-GB         3500-TB12-GB           3/8         24         1.5D         0.56"         50.74         3597-3824K         15         9.8         3597-3824I         3500-HIT14-GB         3500-HIT14-GB         3500-HIT14-G				1							
5/8         11         1.5D         0.94"         86.36         3597-5811K         10         16.5*         3597-5811I         3500-HIT18-GB         —           3/4         10         1.5D         1.13"         97.16         3597-3410K         5         19.8*         3597-3410I         3500-HIT20-GB         —           UNF         No.10         32         1.5D         0.28"         34.54         3597-1032K         20         5.1         3597-1032I         3500-HIT8-GB         3500-TB8-GB           1/4         28         1.5D         0.38"         34.54         3597-1428K         20         6.7         3597-1428I         3500-HIT9-GB         3500-TB9-GB           5/16         24         1.5D         0.47"         39.94         3597-51624K         20         8.3         3597-51624I         3500-HIT1-GB         3500-TB12-GB           3/8         24         1.5D         0.56"         50.74         3597-3824K         15         9.8         3597-3824I         3500-HIT13-GB         3500-HIT14-GB         3500-HIT14-GB         3500-TB14-GB           1/2         20         1.5D         0.66"         52.90         3597-71620K         15         11.5         3597-1220I         3500-HIT1		<b>.</b>									3500-1B15-GB
3/4         10         1.5D         1.13"         97.16         3597-3410K         5         19.8*         3597-3410I         3500-HIT20-GB         —           UNF           No.10         32         1.5D         0.28"         34.54         3597-1032K         20         5.1         3597-1032I         3500-HIT8-GB         3500-TB8-GB           1/4         28         1.5D         0.38"         34.54         3597-1428K         20         6.7         3597-1428I         3500-HIT9-GB         3500-TB9-GB           5/16         24         1.5D         0.47"         39.94         3597-51624K         20         8.3         3597-51624I         3500-HIT1-GB         3500-TB12-GB           3/8         24         1.5D         0.56"         50.74         3597-3824K         15         9.8         3597-3824I         3500-HIT13-GB         3500-TB13-GB           7/16         20         1.5D         0.66"         52.90         3597-71620K         15         11.5         3597-71620I         3500-HIT14-GB         3500-TB14-GB           1/2         20         1.5D         0.75"         61.53         3597-1220K         10         13.0         3597-1220I         3500-HIT15-GB         3500-HIT16-GB		<b>†</b>		1							_
No.10         32         1.5D         0.28"         34.54         3597-1032K         20         5.1         3597-1032I         3500-HIT8-GB         3500-TB8-GB           1/4         28         1.5D         0.38"         34.54         3597-1428K         20         6.7         3597-1428I         3500-HIT9-GB         3500-TB9-GB           5/16         24         1.5D         0.47"         39.94         3597-51624K         20         8.3         3597-51624I         3500-HIT1-GB         3500-TB12-GB           3/8         24         1.5D         0.56"         50.74         3597-3824K         15         9.8         3597-3824I         3500-HIT13-GB         3500-TB13-GB           7/16         20         1.5D         0.66"         52.90         3597-71620K         15         11.5         3597-71620I         3500-HIT14-GB         3500-TB14-GB           1/2         20         1.5D         0.75"         61.53         3597-1220K         10         13.0         3597-1220I         3500-HIT15-GB         3500-TB15-GB           9/16         18         1.5D         0.84"         75.57         3597-91618K         10         14.7*         3597-91618I         3500-HIT16-GB         —           5/8         1				1							_
1/4         28         1.5D         0.38"         34.54         3597-1428K         20         6.7         3597-1428I         3500-HIT9-GB         3500-TB9-GB           5/16         24         1.5D         0.47"         39.94         3597-51624K         20         8.3         3597-51624I         3500-HIT11-GB         3500-TB12-GB           3/8         24         1.5D         0.56"         50.74         3597-3824K         15         9.8         3597-3824I         3500-HIT13-GB         3500-TB13-GB           7/16         20         1.5D         0.66"         52.90         3597-71620K         15         11.5         3597-71620I         3500-HIT14-GB         3500-TB14-GB           1/2         20         1.5D         0.75"         61.53         3597-1220K         10         13.0         3597-1220I         3500-HIT15-GB         3500-TB15-GB           9/16         18         1.5D         0.84"         75.57         3597-91618K         10         14.7*         3597-91618I         3500-HIT16-GB         —           5/8         18         1.5D         0.94"         86.36         3597-5818K         10         16.3*         3597-5818I         3500-HIT18-GB         —	UNF					'					
5/16         24         1.5D         0.47"         39.94         3597-51624K         20         8.3         3597-51624I         3500-HIT11-GB         3500-HIT11-GB         3500-HIT13-GB           3/8         24         1.5D         0.56"         50.74         3597-3824K         15         9.8         3597-3824I         3500-HIT13-GB         3500-HIT13-GB         3500-TB13-GB           7/16         20         1.5D         0.66"         52.90         3597-71620K         15         11.5         3597-71620I         3500-HIT14-GB         3500-TB14-GB           1/2         20         1.5D         0.75"         61.53         3597-1220K         10         13.0         3597-1220I         3500-HIT15-GB         3500-TB15-GB           9/16         18         1.5D         0.84"         75.57         3597-91618K         10         14.7*         3597-91618I         3500-HIT16-GB         —           5/8         18         1.5D         0.94"         86.36         3597-5818K         10         16.3*         3597-5818I         3500-HIT18-GB         —		32	1.5D	0.28"	34.54	3597-1032K	20	5.1	3597-10321	3500-HIT8-GB	3500-TB8-GB
3/8         24         1.5D         0.56"         50.74         3597-3824K         15         9.8         3597-3824I         3500-HIT13-GB         3500-TB13-GB           7/16         20         1.5D         0.66"         52.90         3597-71620K         15         11.5         3597-71620I         3500-HIT14-GB         3500-TB14-GB           1/2         20         1.5D         0.75"         61.53         3597-1220K         10         13.0         3597-1220I         3500-HIT15-GB         3500-TB15-GB           9/16         18         1.5D         0.84"         75.57         3597-91618K         10         14.7*         3597-91618I         3500-HIT16-GB         —           5/8         18         1.5D         0.94"         86.36         3597-5818K         10         16.3*         3597-5818I         3500-HIT18-GB         —				1							
7/16         20         1.5D         0.66"         52.90         3597-71620K         15         11.5         3597-71620I         3500-HIT14-GB         3500-TB14-GB           1/2         20         1.5D         0.75"         61.53         3597-1220K         10         13.0         3597-1220I         3500-HIT15-GB         3500-HIT16-GB         3500-HIT16-GB         -           9/16         18         1.5D         0.84"         75.57         3597-91618K         10         14.7*         3597-91618I         3500-HIT16-GB         -           5/8         18         1.5D         0.94"         86.36         3597-5818K         10         16.3*         3597-5818I         3500-HIT18-GB         -											
1/2         20         1.5D         0.75"         61.53         3597-1220K         10         13.0         3597-1220I         3500-HIT15-GB         3500-TB15-GB           9/16         18         1.5D         0.84"         75.57         3597-91618K         10         14.7*         3597-91618I         3500-HIT16-GB         —           5/8         18         1.5D         0.94"         86.36         3597-5818K         10         16.3*         3597-5818I         3500-HIT18-GB         —		ł — — — — — — — — — — — — — — — — — — —		1			<b>-</b>				
9/16         18         1.5D         0.84"         75.57         3597-91618K         10         14.7*         3597-91618I         3500-HIT16-GB         —           5/8         18         1.5D         0.94"         86.36         3597-5818K         10         16.3*         3597-5818I         3500-HIT18-GB         —		<b>.</b>									
<b>5/8</b> 18 1.5D 0.94" <b>86.36</b> 3597-5818K 10 16.3* 3597-5818I 3500-HIT18-GB —		<b>†</b>									
<b>3/4</b> 16 1.5D 1.13" <b>97.16</b> 3597-3416K 5 19.5* 3597-3416I 3500-HIT21-GB —		ł — — — — — — — — — — — — — — — — — — —									_
	3/4	16	1.5D	1.13"	97.16	3597-3416K	5	19.5*	3597-34161	3500-HIT21-GB	_

(ITS

WUBKSHUB



GROUP	PROC
INSERT TYPE	WIRE THREAD
INSERT MATERIAL	304 STAINLESS STEEL
STYLE	FREE RUNNING
PACKAGING	KIT BOX



WORKS	WORKSHOP THREAD REPAIR KITS – METRIC COARSE											
<b>(</b>	1 <del>4</del>	· ·		Wiktad		07		60"	<u> </u>			
MM	MM	INSTALL	ED LENGTH	\$	PART #		MM	PART #	PART #	PART #		
M5 – M	12											
5.00	0.80	1.5D	7.50MM	210.51	3597-MET-WK1	25	5.2	3597-5081	3500-HIT8-GB	3500-TB8-GB		
6.00	1.00	1.5D	9.00MM	-	_	25	6.3	3597-611	3500-HIT9-GB	3500-TB9-GB		
8.00	1.25	1.5D	12.00MM	-	_	25	8.3	3597-81251	3500-HIT11-GB	3500-TB12-GB		
10.00	1.50	1.5D	15.00MM	-	_	20	10.4	3597-10151	3500-HIT13-GB	3500-TB13-GB		
12.00	1.75	1.5D	18.00MM	-	_	15	12.4	3597-121751	3500-HIT15-GB	3500-TB15-GB		
										•		

WORKSHOP THREAD REPAIR KITS – METRIC COARSE AND SPARK PLUG												
		0	4-5		07	THREAD				1 <del>4</del>	<b>Q</b>	
RT#	PART :	PART #	PART #	MM	#	PART #	\$	ED LENGTH	INSTALL	MM	MM	
								PARK PLUG	& M14 S	10 + M12	M6 – M	
-TB9-GB	3500-TB9	3500-HIT9-GB	3597-611	6.3	25	3597-SP-WK1	272.04	9.00MM	1.5D	1.00	6.00	
TB12-GB	3500-TB1	3500-HIT11-GB	3597-81251	8.3	25	-	-	12.00MM	1.5D	1.25	8.00	
TB13-GB	3500-TB1	3500-HIT13-GB	3597-10151	10.4	20	-	-	15.00MM	1.5D	1.50	10.00	
TB15-GB	3500-TB1	3500-HIT15-GB	3597-12125PN	_	5	-	-	1/2"	-	1.25	12.00	
_	_	_	_	_	5	-	-	3/4"	-	1.25	12.00	
_	_	3500-HIT17-GB	3597-14125PN	_	5	_	_	8.40MM	-	1.25	14.00	
_	_	_	_	_	5	_	_	12.40MM	-	1.25	14.00	
_	_	_	_	_	5	_	_	16.40MM	-	1.25	14.00	
	3500-	3500-HIT13-GB 3500-HIT15-GB — 3500-HIT17-GB	3597-1015I 3597-12125PN - 3597-14125PN	10.4	20 5 5 5 5	- - - - - -	- - - -	15.00MM 1/2" 3/4" 8.40MM 12.40MM	1.5D - - -	1.50 1.25 1.25 1.25 1.25	10.00 12.00 12.00 14.00 14.00	

WORKS	WORKSHOP THREAD REPAIR KITS – METRIC COARSE AND METRIC FINE												
(-D-)				Wilead		40		60*	0	1			
MM	MM	INSTALL	ED LENGTH	\$	PART #		MM	PART #	PART #	PART #			
M6 & M	8 METRI	C COARS	E AND M10	& M12 ME	TRIC FINE								
6.00	1.00	1.5D	9.00MM	237.96	3597-MET-JAPAN	25	6.3	3597-611	3500-HIT9-GB	3500-TB9-GB			
8.00	1.25	1.5D	12.00MM	_	_	25	8.3	3597-81251	3500-HIT11-GB	3500-TB12-GB			
10.00	1.25	1.5D	15.00MM	_	_	15	10.3	3597-101251	3500-HIT13-GB	3500-TB13-GB			
12.00	1.25	1.5D	18.00MM	-	-	10	12.3	3523-12.001	3500-HIT15-GB	3500-TB15-GB			
	20	1				. 0							

WORKS	HOP THR	EAD REPA	AIR KITS – N	IETRIC COA	RSE, SPARK PLUG	AND UNC	;			
(-D-)					TREAD	40		60° 4-5	0	
MM / INCH	MM / TPI	INSTALL	ED LENGTH	\$	PART #	#	MM	PART #	PART #	PART #
M5 – M	8 METRIC	COARSE	E + M14 SP <i>i</i>	ARK PLUG <i>i</i>	AND 1/4" & 5/16"	UNC				
5.00	0.80	1.5D	7.50MM	254.77	3597-0PE-WK1	25	5.2*	3597-5081	3500-HIT8-GB	3500-TB8-GB
6.00	1.00	1.5D	9.00MM	_	_	25	6.3*	3597-611	3500-HIT9-GB	3500-TB9-GB
8.00	1.25	1.5D	12.00MM	_	_	25	8.3*	3597-81251	3500-HIT11-GB	3500-TB12-GB
14.00	1.25	-	3/8"	_	_	3	_	3597-14125PN	3500-HIT17-GB	_
14.00	1.25	-	1/2"	_	-	3	_	_	_	_
14.00	1.25	-	3/4"	_	-	3	_	_	_	_
1/4	20	1.5D	0.38"	_	-	25	6.7*	3597-14201	3500-HIT9-GB	3500-TB9-GB
5/16	18	1.5D	0.47"	_	-	25	8.3*	3597-516181	3500-HIT10-GB	3500-TB12-GB

<sup>\*</sup> Tapping drill not included in thread repair kit.

I/ITO

WORKSHOP

# GROUP PROC INSERT TYPE WIRE THREAD INSERT MATERIAL 304 STAINLESS STEEL STYLE FREE RUNNING PACKAGING KIT BOX

WORKS	WORKSHOP THREAD REPAIR KITS – UNC									
<b>+D</b> +	11111111111111111111111111111111111111	<b>M</b>			THREAD	40		6° 4-5	Θ 	
INCH	TPI	INSTALL	ED LENGTH	\$	PART #	#	MM	PART #	PART #	PART #
<b>UNC 1/4</b>	" – UNC '	1/2"								
1/4	20	1.5D	0.38"	239.65	3597-UNC-WK1	25	6.7	3597-14201	3500-HIT9-GB	3500-TB9-GB
5/16	18	1.5D	0.47"	_	-	25	8.3	3597-516181	3500-HIT10-GB	3500-TB12-GB
3/8	16	1.5D	0.56"	-	-	20	9.9	3597-38161	3500-HIT13-GB	3500-TB12-GB
7/16	14	1.5D	0.66"	_	_	20	11.6	3597-716141	3500-HIT14-GB	3500-TB14-GB
1/2	13	1.5D	0.75"	-	-	15	13.0	3597-12131	3500-HIT15-GB	3500-TB15-GB
			* *							

WORKS	HOP THR	EAD REPA	AIR KITS – U	NF						
(+D-)		M			THREAD	40		60°	• • • • • • • • • • • • • • • • • • •	1
INCH	TPI	INSTALL	ED LENGTH	\$	PART #	#	MM	PART #	PART #	PART #
<b>UNF 1/4</b>	" – UNF 1	/2"								
1/4	28	1.5D	0.38"	239.65	3597-UNF-WK1	20	6.7	3597-14281	3500-HIT9-GB	3500-TB9-GB
5/16	24	1.5D	0.47"	-	_	20	8.3	3597-516241	3500-HIT11-GB	3500-TB12-GB
3/8	24	1.5D	0.56"	-	_	15	9.8	3597-38241	3500-HIT13-GB	3500-TB13-GB
7/16	20	1.5D	0.66"	-	-	10	11.5	3597-716201	3500-HIT14-GB	3500-TB14-GB
1/2	20	1.5D	0.75"	-	-	10	13.0	3597-12201	3500-HIT15-GB	3500-TB15-GB



WIRE INSERTS

GROUP	PRWI
INSERT TYPE	WIRE THREAD
MATERIAL	304 STAINLESS STEEL
STYLE	FREE RUNNING
PACKAGING	CLAM SHELL

PACKAGING					C	LAM SHELL
HANG SELL	REPLACEMEN	T INCEDTO				
HANG SLLL	NLF LAGLIVILIN	INSLAIS				
<b>←D</b> →	<b>₩</b>			45		
MM	MM	INSTALLE	D LENGTH	#	\$	PART #
	ARSE / METRI		D LLINGIII		Ψ	. , , , , , ,
3.00	0.50	1.5D	4.00MM	10	7.23	3597-305X4.5P
4.00	0.70	1.5D	6.00MM	10	7.23	3597-407X6P
5.00	0.80	1.5D	7.50MM	10	7.23	3597-508X7.5P
6.00	1.00	1.5D	9.00MM	10	8.16	3597-61X9P
7.00	1.00	1.5D	10.50MM	10	8.92	3597-71X10.5P
8.00	1.25	1.5D	12.00MM	10	8.92	3597-8125X12P
10.00	1.25	1.5D	15.00MM	10	12.53	3597-10125X15P
10.00	1.50	1.5D	15.00MM	10	12.53	3597-1015X15P
12.00	1.50	1.5D	18.00MM	10	17.49	3597-1215X18P
12.00	1.75	1.5D	18.00MM	10	17.49	3597-12175X18P
14.00	1.50	1.5D	21.00MM	5	13.82	3597-1415X21P
14.00	2.00	1.5D	21.00MM	5	13.82	3597-142X21P
16.00	2.00	1.5D	24.00MM	5	17.02	3597-162X24P
(+D+)		<b>M</b>		46		
		ULIV	inimi			
MM	MM	INSTALLE	D LENGTH	#	\$	PART #
SPARK PLUC			0.0001	10	11.01	2507 101V 220D
10.00	1.00	_	0.339"	10	11.31	3597-101X.339P
10.00 12.00	1.00 1.25	_	1/2"	10 10	12.77 16.49	3597-101X1/2P 3597-12125X1/2P
12.00	1.25	_	3/4"	10	17.49	3597-12125X1/2F 3597-12125X3/4P
14.00	1.25	_	3/8"	10	9.62	3597-12125X3/4F 3597-14125X3/8P
14.00	1.25	_	1/2"	10	14.69	3597-14125X3/6I
14.00	1.25	_	3/4"	10	19.29	3597-14125X3/4P
14.00	1.20		0/1	10	10.20	- 14120/0741
(+D+)	11111111111111111111111111111111111111	M		46		
INCH	TPI	INSTALLE	D LENGTH	#	\$	PART #
UNC				1		
No.6	32	1.5D	0.21"	10	7.11	3597-632X207P
No.8	32	1.5D	0.25"	10	7.11	3597-832X246P
No.10	24	1.5D	0.28"	10	7.11	3597-1024X285P
1/4	20	1.5D	0.38"	10	7.99	3597-1420X375P
5/16	18	1.5D	0.47"	10	8.86	3597-51618X469P
3/8	16	1.5D	0.56"	10	12.53	3597-3816X562P
7/16	14	1.5D	0.66"	10	14.86 17.02	3597-71614X656P
1/2	13	1.5D	0.75"	10	11.66	3597-1213X750P
9/16 5/8	12 11	1.5D	0.84" 0.94"	5		3597-91612X844P 3597-5811X937P
3/4	10	1.5D 1.5D	1.13"	5 5	16.73 23.20	3597-3410X1.125P
UNF	10	1.50	1.10	J	23.20	3397-3410X1.1231
No.10	32	1.5D	0.28"	10	7.11	3597-1032X285P
1/4	28	1.5D	0.28"	10	7.99	3597-1428X375P
5/16	24	1.5D	0.47"	10	8.86	3597-51624X469P
3/8	24	1.5D	0.56"	10	12.53	3597-3824X562P
7/16	20	1.5D	0.66"	10	14.86	3597-71620X656P
1/2	20	1.5D	0.75"	10	17.02	3597-1220X750P
9/16	18	1.5D	0.84"	5	11.66	3597-91618X844P
5/8	18	1.5D	0.94"	5	16.73	3597-5818X937P





1.5D

1.13"

23.20

16

3597-3416X1.125P

PLUGFIX SOLID



# **PLUG FIX SOLID INSERT**

GROUP	PRWI
INSERT TYPE	SOLID KNURLED
PACKAGING	CLAM SHELL

	HANG SELL	REPLACEMEN				
	(+D+)	i → i		40		
	MM	MM	INSERT LENGTH			PART #
1	SPARK PLU	G – PLUG FIX				
	14.00	1.25	2 EACH: 3/8", 1/2", 3/4"	6	21.85	3599-14125CP
	14.00	1.25	3/8"	5	15.48	3599-14125X3/8P
	14.00	1.25	1/2"	5	18.29	3599-14125X1/2P
	14.00	1.25	3/4"	5	21.23	3599-14125X3/4P





-							
	GROUP -				\$		PART #
	8 KIT BENCH	TOP MERCH	ANDISER		549.39		3597-D1
	<b>D</b>	1 <u>+</u> 1 <u>MMM</u>			FireAD		
	MM / INCH	MM	DESCRIPTION	QTY	PART #	QTY	PART #
	METRIC COA	ARSE / METRI	C FINE				
	5.00	0.80	WIRE INSERTS	1	3597-508K	1	3597-508X7.5P
	6.00	1.00	WIRE INSERTS	1	3597-61K	1	3597-61X9P
	8.00	1.25	WIRE INSERTS	1	3597-8125K	1	3597-8125X12P
	10.00	1.50	WIRE INSERTS	1	3597-1015K	1	3597-1015X15P
	12.00	1.75	WIRE INSERTS	1	3597-12175K	1	3597-12175X18P
	12.00	1.25	WIRE INSERTS	1	3598-12125K	_	_
	14.00	1.25	WIRE INSERTS	1	3598-14125K	1	3597-14125X3/8P
	14.00	1.25	WIRE INSERTS	-	_	1	3597-14125X1/2P
	14.00	1.25	WIRE INSERTS	-	_	1	3597-14125X3/4P
	14.00	1.25	PLUG FIX SOLID	1	3599-14125K	1	3599-14125X3/8P
	14.00	1.25	PLUG FIX SOLID	-	-	1	3599-14125X1/2P
	14.00	1.25	PLUG FIX SOLID	-	-	1	3599-14125X3/4P
	14.00	1.25	PLUG FIX SOLID	_	-	1	3599-14125CP



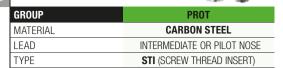
The ProThread bench merchandisers are double sided units that display thread repair kits on one side and replacement insert packets on the other.

GROUP PROC				\$		PART #
10 KIT BENC	H TOP MERCH	IANDISER		541.88		3598-D1
<b>-D-</b>						
MM / INCH	MM / TPI	DESCRIPTION	QTY	PART #	QTY	PART #
METRIC COA	ARSE / METRI	C FINE				
6.00	1.00	WIRE INSERTS	1	3598-61K	1	3597-61X9P
8.00	1.25	WIRE INSERTS	1	3598-8125K	1	3597-8125X12P
10.00	1.50	WIRE INSERTS	1	3598-1015K	1	3597-1015X15P
12.00	1.75	WIRE INSERTS	1	3598-12175K	1	3597-12175X18P
14.00	1.25	WIRE INSERTS	1	3598-14125K	1	3597-14125X3/8P
14.00	1.25	WIRE INSERTS	-	_	1	3597-14125X1/2P
14.00	1.25	WIRE INSERTS	-	_	1	3597-14125X3/4P
14.00	1.25	PLUG FIX SOLID	1	3599-14125K	1	3599-14125X3/8P
14.00	1.25	PLUG FIX SOLID	_	-	1	3599-14125X1/2P
14.00	1.25	PLUG FIX SOLID	_	-	1	3599-14125X3/4P
UNC						
1/4	20	WIRE INSERTS	1	3598-1420K	1	3597-1420X375P
5/16	18	WIRE INSERTS	1	3598-51618K	1	3597-51618X469P
3/8	16	WIRE INSERTS	1	3598-3816K	1	3597-3816X562P
7/16	14	WIRE INSERTS	1	3598-71614K	1	3597-71614X656P

# THREAD

STI TAPS

CARRON STEEL

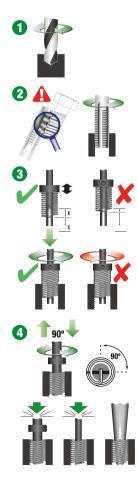


STI TAPS			
			(1
(+D+)	<b>+</b>		60°
MM	MM	\$	PART #
METRIC COA	ARSE / METRI	C FINE	
3.00	0.50	12.20	3597-3051
4.00	0.70	12.20	3597-4071
5.00	0.80	9.45	3597-5081
6.00	1.00	9.45	3597-611
7.00	1.00	9.72	3597-711
8.00	1.25	9.72	3597-81251
10.00	1.25	12.41	3597-101251
10.00	1.50	12.41	3597-1015
12.00	1.50	16.14	3597-12151
12.00	1.75	16.14	3597-121751
14.00	1.50	23.16	3597-1415
14.00	2.00	23.16	3597-1421
16.00	2.00	30.23	3597-1621
		( )	A
(n.)	<b>+</b>		60°
		1	THE STATE OF THE S
MM	MM	\$	PART #
SPARK PLU		Ψ	17001 //
10.00	1.00	13.49	3597-101PN
12.00	1.25	17.22	3597-12125PN
14.00	1.25	23.16	3597-14125PN
1 1100	1.20	20110	
	<b>←</b>		1
	MMMM		60°
INCH	TPI	\$	PART #
UNC		Ψ	17001 //
No.6	32	12.20	3597-6321
No.8	32		
No.10		12.20	
1 110.10		12.20 12.20	3597-8321
1/4	24	12.20	3597-832I 3597-1024I
1/4	24 20	12.20 9.45	3597-832l 3597-1024l 3597-1420l
1/4 5/16	24 20 18	12.20 9.45 9.72	3597-832I 3597-1024I 3597-1420I 3597-51618I
1/4 5/16 3/8	24 20	12.20 9.45	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I
1/4 5/16 3/8 7/16	24 20 18 16 14	12.20 9.45 9.72 12.41 12.41	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I
1/4 5/16 3/8 7/16 1/2	24 20 18 16 14	12.20 9.45 9.72 12.41 12.41 16.14	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I
1/4 5/16 3/8 7/16	24 20 18 16 14 13	12.20 9.45 9.72 12.41 12.41 16.14 23.16	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I
1/4 5/16 3/8 7/16 1/2 9/16	24 20 18 16 14	12.20 9.45 9.72 12.41 12.41 16.14	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I
1/4 5/16 3/8 7/16 1/2 9/16 5/8	24 20 18 16 14 13 12	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-5811I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4	24 20 18 16 14 13 12	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-5811I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 UNF	24 20 18 16 14 13 12 11	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23 32.76	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-5811I 3597-3410I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 UNF No.10	24 20 18 16 14 13 12 11 10	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23 32.76	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-3410I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 UNF No.10 1/4	24 20 18 16 14 13 12 11 10	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23 32.76 12.20 9.45	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-5811I 3597-3410I 3597-1032I 3597-1428I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 UNF No.10 1/4 5/16	24 20 18 16 14 13 12 11 10 32 28 24	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23 32.76 12.20 9.45 9.72	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-5811I 3597-3410I 3597-1032I 3597-1428I 3597-51624I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 UNF No.10 1/4 5/16 3/8	24 20 18 16 14 13 12 11 10 32 28 24 24	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23 32.76 12.20 9.45 9.72 12.41	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-5811I 3597-3410I 3597-1032I 3597-1428I 3597-51624I 3597-3824I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 UNF No.10 1/4 5/16 3/8 7/16	24 20 18 16 14 13 12 11 10 32 28 24 24 20	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23 32.76 12.20 9.45 9.72 12.41 12.41	3597-832I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-5811I 3597-3410I 3597-1032I 3597-1428I 3597-51624I 3597-3824I 3597-71620I
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 UNF No.10 1/4 5/16 3/8 7/16 1/2	24 20 18 16 14 13 12 11 10 32 28 24 24 20 20	12.20 9.45 9.72 12.41 12.41 16.14 23.16 30.23 32.76 12.20 9.45 9.72 12.41 12.41 16.14	3597-832I 3597-1024I 3597-1024I 3597-1420I 3597-51618I 3597-3816I 3597-71614I 3597-1213I 3597-91612I 3597-3811I 3597-3410I 3597-1032I 3597-1428I 3597-51624I 3597-3824I 3597-71620I 3597-1220I



GROUP	PROT
MATERIAL	CARBON STEEL
LEAD	PILOT NOSE
TYPE	STI (SCREW THREAD INSERT)

PLUG FIX – HEX END PILOT NOSE TAP					
<b>-D</b> -		THERE THE	60°		
MM	MM		PART #		
SPARK PLUC	G – PLUG FIX				
14.00	1.25	23.16	3599-14125PN		



0

Drill to clear the damaged thread with a standard twist drill. The required tapping drill size is shown on the front of each pack. NOTE Spark Plug inserts utilise a pilot nose tap which does not require pre-drilling.



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

cutting 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 or spark plug you wish to insert into the finished hole.



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.



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 pilers to remove the tang.

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

GROUP	PROI
USE WITH	ALL WIRE THREAD INSERTS
TOOL TYPE	HAND INSTALLATION



HAND INSTA	ALLATION TOO	LS	
			11
(+D+)	<b>↔</b>		
MM	MM	\$	PART #
METRIC CO	ARSE / METRI	C FINE	
3.00	0.50	18.65	3500-HIT4-GB
4.00	0.70	12.83	3500-HIT6-GB
5.00	0.80	12.83	3500-HIT8-GB
6.00	1.00	12.83	3500-HIT9-GB
7.00	1.00	12.83	3500-HIT10-GB
8.00	1.25	12.83	3500-HIT11-GB
10.00	1.25	12.83	3500-HIT13-GB
10.00	1.50	12.83	3500-HIT13-GB
12.00	1.50	15.15	3500-HIT15-GB
12.00	1.75	15.15	3500-HIT15-GB
14.00	1.50	16.32	3500-HIT16-GB
14.00 16.00	2.00	16.32 16.32	3500-HIT16-GB
10.00	2.00	10.32	3500-HIT18-GB
(+D+)			
2424			DADT "
MM MM	MM	\$	PART #
SPARK PLU		12.83	2500 UIT12 CD
12.00	1.00 1.25	15.15	3500-HIT13-GB 3500-HIT15-GB
14.00	1.25	16.32	3500-HIT17-GB
14.00	1.20	10.02	0000 11117 02
	←→		
	mmmi		
INCH	TPI	\$	PART #
UNC		<b>₩</b>	1711117
No.6	32	18.65	3500-HIT5-GB
No.8	32	12.83	3500-HIT6-GB
No.10	24	12.83	3500-HIT7-GB
1/4	20	12.83	3500-HIT9-GB
5/16	18	12.83	3500-HIT10-GB
3/8	16	12.83	3500-HIT13-GB
7/16	14	13.99	3500-HIT14-GB
1/2	13	15.15	3500-HIT15-GB
9/16	12	16.32	3500-HIT16-GB
5/8	11	16.32	3500-HIT18-GB
3/4	10	16.32	3500-HIT20-GB
UNF	0.0	40.00	0500 1972 02
No.10	32	12.83	3500-HIT8-GB
1/4	28	12.83	3500-HIT9-GB
5/16	24	12.83	3500-HIT11-GB
3/8 7/16	24	12.83	3500-HIT13-GB
	20	13.99	3500-HIT14-GB
	20	15.15	2500 HIT15 CD
1/2	20	15.15	3500-HIT15-GB
1/2 9/16	18	16.32	3500-HIT16-GB
1/2			

PLUG FIX – SWAGE TOOL					
<b>O</b>					
MM	MM		PART #		
SPARK PLUG – PLUG FIX					
14.00	1.25	16.32	3599-14125SWG		

- Features and benefits

  No drill required
  Solid inserts in 3 lengths to suit most common spark plug reaches
  Suitable for aluminium and cast iron
  Simple, easy to use permanent repair

Applications

• Taper and gasket seat spark plug ports

IMPORTANT NOTE
It is important that no foreign
material enters the combustion
chamber. We recommend the
head be removed from the
engine prior to repair.



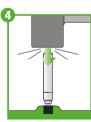
**Tap:** Pilot nose taps require no pre-drilling. Lubricate the tap with a suitable lubricant. Hand start tap and then turn with 19mm or 3/4" socket wrench. Tap entire length of port.



Select Insert: Ensure selected insert is the same length as the thread on the spark plug. The knurled end of the insert should be at the top of the spark plug port.



Install Insert: Wind the correct insert on to the spark plug. Coat outside threads with hi-temp silicone. Wind assembly into spark plug port until fully seated. Wind spark plug out.



Complete installation: Place swage tool into insert and hit several times to expand knurl. Install spark plug to recommended torque. Do not run engine until sealant has cured (refer to manufacturer's instructions).



INDUSTRIAL TOOLS

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Part No. 9910-CATPROTHREAD0319

