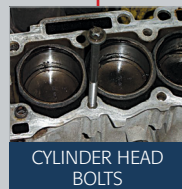
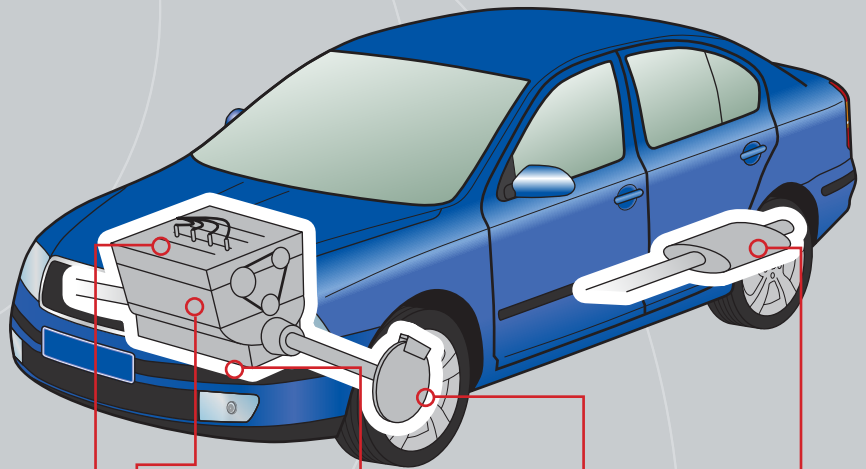


## Automotive Aftermarket Thread Repair

# Simple And Effective Repair For Automotive Applications

There are thousands of threads in the average motor vehicle which will sooner or later need repair.

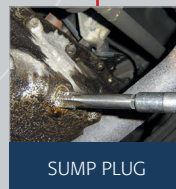
The Recoil system of high quality wire thread inserts and tooling kits provide a fast, reliable and highly cost effective solution; to repair and strengthen worn threads and extend the life of a vehicle's components. Quick and easy to install, Recoil inserts help to reduce maintenance and keep vehicle downtime to a minimum. The system is suitable for a complete range of automotive applications across cars, motorcycles and commercial vehicles.



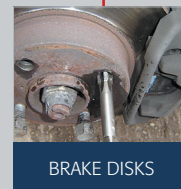
CYLINDER HEAD BOLTS



SPARK PLUG THREADS



SUMP PLUG



BRAKE DISKS



EXHAUST ANALYSER

### Recoil Standard Kit



#### Kit contents:

- High speed steel (HSS) intermediate STI tap
- Quantity of inserts 1.5D length
- Installation / tang break off tool (up to m10)
- Recoil Pro Series and Range kits also available

### Spark Plug Thread Repair Kit



Contains specially designed insert for spark plug repair & a pilot nose tap for accurate self alignment. Designed again specifically for the spark plug, this kit eliminates the need for drilling.

#### Benefits

- Expense reduced - spark plug ports can be recovered without expense of new cylinder heads

### Plugsaver Kit



Using solid carbon inserts, Recoil's Plugsaver kit provides the perfect remedy for taper seat spark plug port repair.

### Lambda Sensor Thread Repair Kit



Recoil's specially designed insert for the lambda sensor thread, made from high temperature inconel.

#### Benefits

- The only high temperature insert in kit form
- Bottoming tap measured to suit shallow depth of tapped hole

## Typical Applications

Size	Thread Form	Kit Part Number	Installation Tool	Refill packets	No. of inserts per bag
<b>Exhaust Manifold Studs</b>					
1/4-20	UNC	33040	50188	23043	10
1/4-28	UNF	34040	50188	24043	10
5/16-18	UNC	33050	50219	23053	10
5/16-24	UNF	34050	50250	24053	10
3/8-16	UNC	33060	50281	23063	10
3/8-24	UNF	34060	50313	24063	10
7/16-14	UNC	33070	50344	23073	10
7/16-20	UNF	34070	50344	24073	10
1/2-20	UNF	34080	50375	24083	10
9/16-18	UNF	34090	50438	24093	5
5/8-18	UNF	34100	50500	24103	5
3/4-10	UNC	33120	50591	23123	5
M5 x 0.8	Metric	35050	50156	25053	10
M6 x 1	Metric	35060	50188	25063	10
M8 x 1.25	Metric	35080	50250	25083	10
M10 x 1.5	Metric	35100	50281	25103	10
M10 x 1.25	Metric	37100	50313	27103	10

<b>Exhaust Analyser Kit</b>					
M18 x 1.5	Metric	38181-X	50591	28181-x	5

<b>Cylinder Head Bolts</b>					
7/16-14	UNC	33070	50344	23073	10
1/2-13	UNC	33080	50375	23083	10
9/16-12	UNC	33090	50438	23093	5
M10 x 1.5	Metric	35100	50281	25103	10
M11 x 1.5	Metric	35110	50344	25113	10
M11 x 1.25	Metric	37110	50344	27113	10
M12 x 1.75	Metric	35120	50375	25123	10

<b>Brake Caliper Bolts</b>					
M9 x 1.25	Metric	35090	50281	25093	10
M11 x 1.25	Metric	37110	50344	27113	10

<b>Wheel Bolts</b>					
M12 x 1.5	Metric	37120	50375	27123	10
M12 x 1.25	Metric	38121	50375	28123	10

<b>Alternator Bolts</b>					
5/16-18	UNC	33050	50219	23053	10
3/8-16	UNC	33060	50281	23063	10
M10 x 1.5	Metric	35100	50281	25103	10

Size	Thread Form	Kit Part Number	Installation Tool	Refill packets	No. of inserts per bag
<b>Spark plug</b>					
M10 x 1	Metric	38100	50313	28108 (.339") 28109 (1/2")	10
M12 x 1.25	Metric	38120	50375	28122 (1/2") 28123 (3/4")	10
M14 x 1.25	Metric	38140	50468	28149 (1/2") 28140 (3/4")	10
M18 x 1.5	Metric	38180	50591	28189	5

<b>Starter Motor Bolts</b>					
3/8-16	UNC	33060	50281	23063	10
M10 x 1.5	Metric	35100	50281	25103	10

<b>Oil Sump / Drain Plugs</b>					
1/4-19	BSP	31040	50438	21043	10
1/2-20	UNF	34080	50375	24083	10
5/8-11	UNC	33100	50500	23103	5
3/4-16	UNF	34120	50591	24123	5
7/8-14	UNF	34140	50688	24143	3
M12 x 1.75	Metric	35120	50375	25123	10
M14 x 1.5	Metric	37140	50438	27143	5
M16 x 1.5	Metric	37160	50500	27163	5
M18 x 1.5	Metric	38181	50591	28183	5

## Other Applications

	Product	Part Numbers
Wheel Studs	Studsaver 1, 2, 3	90620, 92238, 93200
CV Joints	Studsaver 1, 2, 3	90620, 92238, 93200
Driveshafts	Studsaver 1, 2, 3	90620, 92238, 93200
Engine Studs	Studsaver 1, 2, 3	90620, 92238, 93200
Ball Joints	Studsaver 1, 2, 3	90620, 92238, 93200

	Product	Part Numbers
Glow Plug Thread	ReTHRED 21, 22, 23, 24	94021, 94022, 94023, 94024
Spark Plug	ReTHRED 21, 22, 23, 24	94021, 94022, 94023, 94024
Sump Plug	ReTHRED 21, 22, 23, 24	94021, 94022, 94023, 94024
Oxy Sensor Threads	ReTHRED 21, 22, 23, 24	94021, 94022, 94023, 94024
Caliper Bolt Threads	ReTHRED 21, 22, 23, 24	94021, 94022, 94023, 94024
Subframe Threads	ReTHRED 21, 22, 23, 24	94021, 94022, 94023, 94024

## Installation Sequence



1. Stripped Thread



2. Drill it



3. Tap it



4. Insert it



5. New Thread



6. With bolt

For further information freephone:

**0800 019 8180**

**0800 901 352**

**0800 182 6928**

Alternatively call: **00 44 1952 290011**

E-mail: [enquiries@hfsindustrial.com](mailto:enquiries@hfsindustrial.com)

Web-site: [www.hfsindustrial.com](http://www.hfsindustrial.com)



TS 504575-000  
FM 80437



EMS 60542

## Also from Recoil

### ReTHRED



An adjustable, easy-to-use tool for efficient internal re-threading of imperial and metric forms.

#### Benefits

- Money and time is saved by re-threading damaged threads
- Unique design ensures consistent rethreading

### Studsaver



An adjustable, easy-to-use tool for efficient external re-threading of imperial and metric forms.

#### Benefits

- Labour costs are cut - no need to measure threads
- Adjustable for any application - unique floating blades adjust to any thread pitch and diameter

### ReGrip



ReGrip assists with the quick and easy removal of broken or damaged bolts, screws and nuts.

#### Benefits

- Firmer grip for extraction tooling
- Reduces disengagement of spanners, sockets and screw drivers