

## Precautions

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.



**Safety First. Be Protected.**

## Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



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# LASER<sup>®</sup>

6762

## Injector Sleeve Remover/Installer Set HGV Volvo (FM12)

**A specially designed kit that allows the copper and steel unit injector sleeves to be extracted from the top of the cylinder head on the Volvo FM12 truck engine using a robust 2 leg puller.**

The kit utilises an expanding collet design to grip the sleeve from above and attaches to the puller force screw.

Supplied with flaring/fitting tool for copper type injector sleeves only.

- Volvo FM12 truck engines.
- Expanding collet type puller
- Equivalent to OEM tools for removal of both steel and copper sleeves.
- Insertion and flaring tool supplied for copper type sleeves only.
- Steel sleeve installer kit available separately - Laser Part No: 6817.



# Applications

Volvo FM12 Diesel Engines

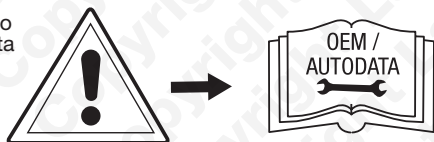
# Components



Ref	OEM	Description
A	9986174	Two leg Puller (for extraction)
B	88800387	Extractor unit
C	9998254	Insertion and flaring tool
D		Flaring/Swaging tool

• NOTE: Components D is designed for fitting copper inserts only. Check engine manufacturer instructions before proceeding.

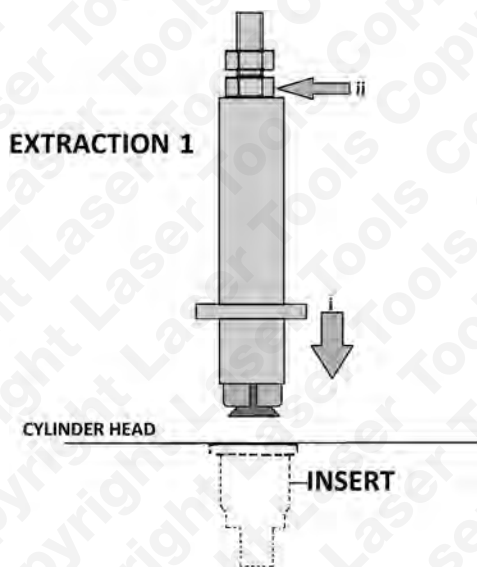
The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufactures own data or Autodata. The tool is purely down to the user's discretion and The Tool Connection Ltd cannot be held responsible for any damage caused what so ever.



# Instructions

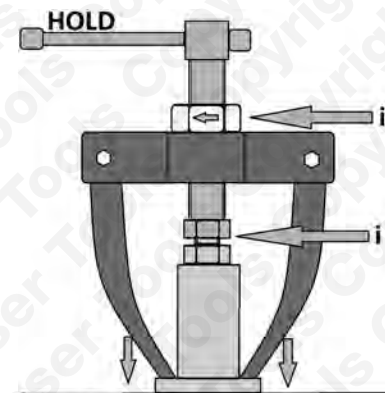
## EXTRACTION STAGE 1:

- I. Insert component B into the sleeve (i)
- II. Tighten nut (ii) to expand the tool so it grips the insert



## EXTRACTION STAGE 2:

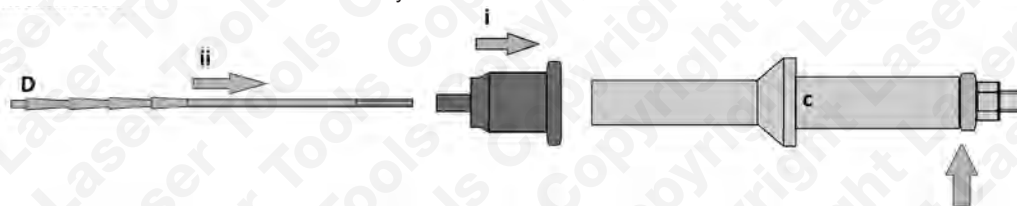
- I. Lubricate the force screw of puller A with molybdenum disulphide grease and attach to component B as shown. Tighten the lock nut (i).
- II. Holding the tee handle rotate the extractor nut (ii) clockwise to extract the insert.
- III. Ensure all the insert has been extracted



EXTRACTION 2

## INSERTION COPPER SLEEVE: INSERTION STAGE 1

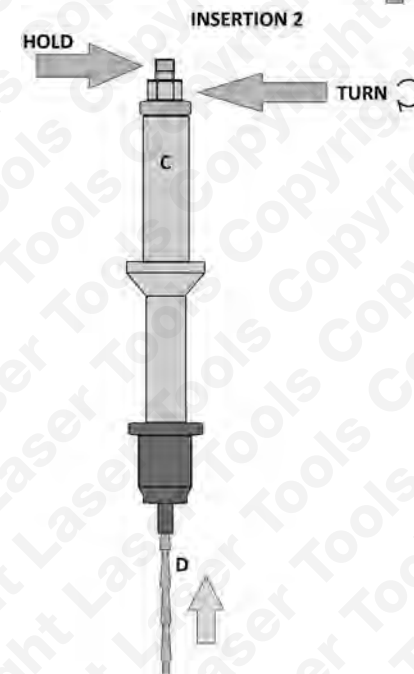
- I. Remove component (D) from component (C) and fit the new insert on to the insertion tool (C).
- II. Screw the flaring/swaging tool (D) back in to (C) through the insert as shown and tighten by hand only. Lubricate the insert tools as detailed by OEM instructions.



## INSERTION STAGE 2:

NOTE: Fit the whole assembly in to the cylinder head so the insert is fully seated – see OEM instructions.

- I. Holding the top of the flaring tool (C) centre screw stationary, tighten the top nut down. Continue tightening the top nut until the flaring/swaging tool has been completely pulled through the insert. Remove tools.



INSERTION 2