

# ET1393C

## VOLVO (FM/ FM12/ FH) TRUCK INJECTOR

### SLEEVE REMOVER/INSTALLER SET



VIDEO



VIDEO



<H.C.B-A1393>



#### Note:

1. Put oil on the tool 1- Tapping head before using it
2. To combine with H.C.B-B1350. You must purge the water from radiator before using this tool.
3. Prepare a new sleeve to replace.

No.	Description	OEM no.	Thread tap	Weight
A1393-1	Thread cutting tool for removal of copper sleeve	9998252	M9 x P1.25	0.638 KGS
A1393-2	Copper sleeve puller	9998253	M9 x P1.25	1.284 KGS
A1393-3	Expander, replacing copper sleeve	9998688	M6 x P1.0	1.010 KGS

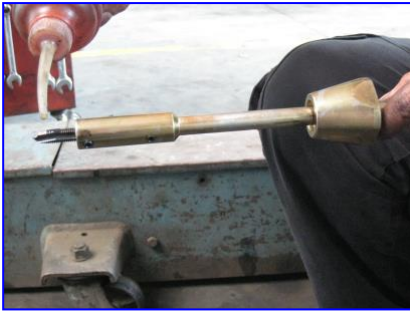


Spare part-  
NO.85104134

# Operation

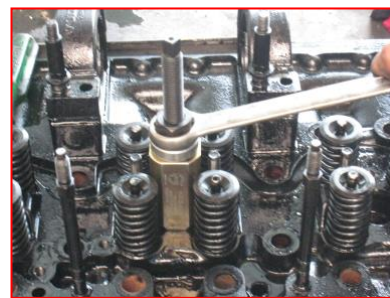
How to use :

## Step 1: Use Tool 1-Tapping head for tapping



Use tool 1-tapping head to tap the cylinder sleeve. Tap the cylinder sleeve slowly to make sure thread is clear. Then you can take out tool 2.

## Step 2: Tool 2- Use cylinder sleeve remover to remove the sleeve



Use the front part of tool 2- cylinder sleeve remover to lock the cylinder sleeve. Then rotate the spindle to pull the cylinder sleeve backward. In this step, the old cylinder sleeve will be taken out.

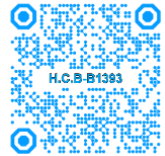
## Step 3: Tool 3- Use cylinder sleeve installer to inject new sleeve



Take out the new sleeve that you prepared. Put the new sleeve on the tool 3, and fix the lever tightly.

And then inject tool 3 direct into cylinder. The final step is pull lever to move the tool 3 backward.

- This tool is designed for Installing and Removing sleeve.
- In this situation you need this tool to change the sleeve: when you feel powerless of the truck or it blow out black smoke.
- This tool needs to combine with H.C.B-B1350.

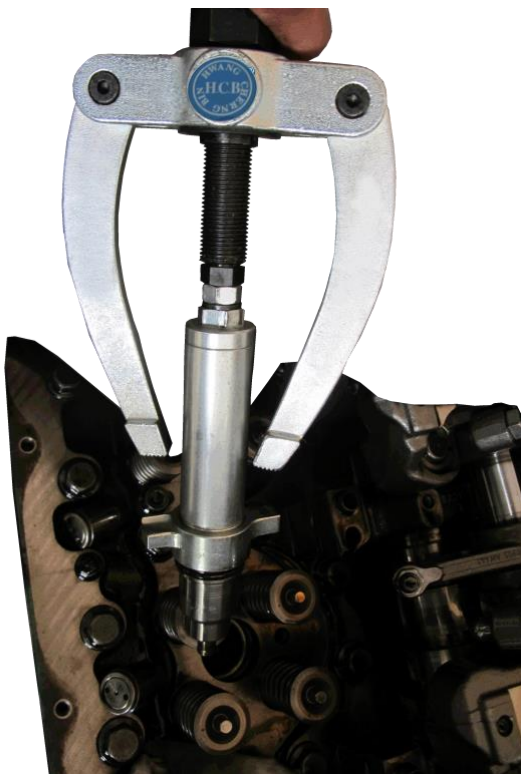


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VOLVO INJECTOR SLEEVE 85104134

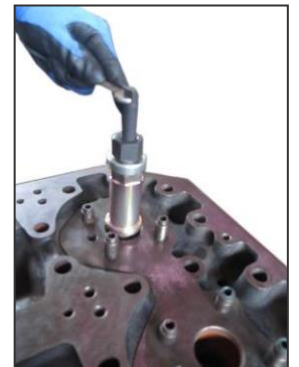
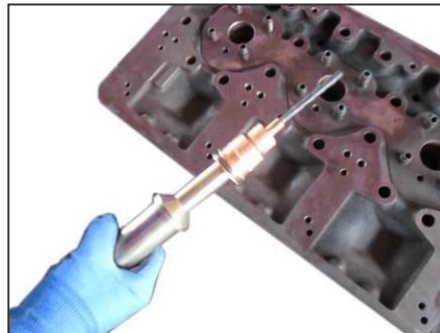
NO.	Description	Original number
B1393-1	Puller	9986174
B1393-2-1	Puller	88800387
B1393-2-2	Puller ring	88800387
B1393-3-1	Expander	
B1393-3-2	THREAD TAP	88880054



## REMOVAL



## INSTALLATION



**Application: VOLVO (FM12)**

## Operation:

### Removal:

Put the 2-1 puller into cylinder to reach sleeve. Screw top nut to make puller retain sleeve, then install 2-2 puller ring, and assemble No.1 puller, screw top nut and take out the old sleeve.

### Installation:

Put new sleeve into 3-1 Expander, then install 3-2 THREAD TAP, finally put the whole tool into cylinder, screw the top nut, then the new sleeve will be installed perfectly.

Sliver sleeve equiv: 21515329

**Application:** VOLVO FM 12 Truck

2016 applicable models VHD, VNL, VNM, VNX, VT

Volvo D13 2007-2016 applicable models VNM, VNL, VHD

Volvo D11 Engine 2007-2016 applicable models VHD, VNL, VNM

Mack MP7 Engine 2008 - Current (Conical Injector Sleeve) applicable models MRU, LEU, CXU, CHU, GU, CV, CTP, CT

MACK MP8 Engine 2008 - Current (Conical Injector Sleeve) applicable models CT, CTP, CV, GU, CHU, CXU, LEU, MRU