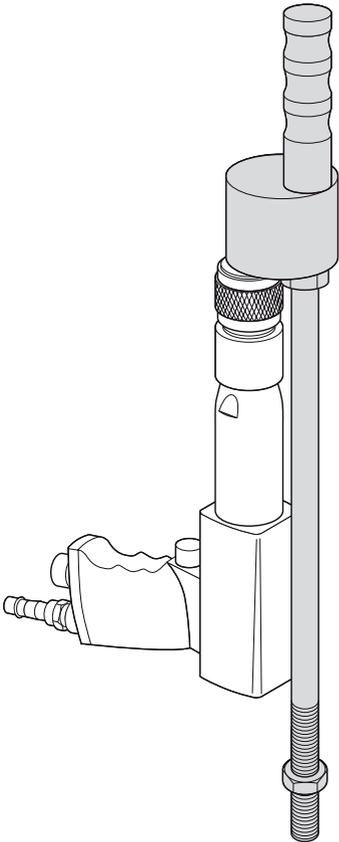




Injector  
extractor set

K 11249



# INTRODUCTION

This tool allows the vibration and impact delivered by an air chisel/hammer unit to be used to extract components. Equipped with a 5/8" male thread for connection to any slide hammer adaptor with a similar internal thread. We recommend the use of the Kamasa Tools K 9870 air hammer. When combined with the appropriate adaptor this tool can be used to extract injectors and small diameter bearings (under 30 mm).

# SAFETY AND PRECAUTION

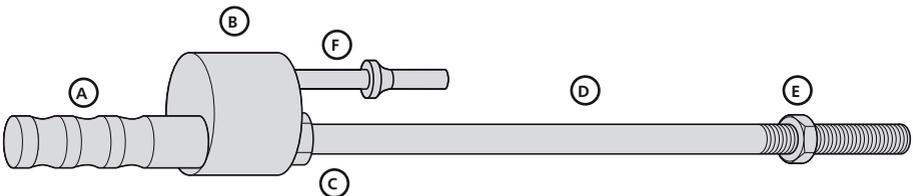
Read this manual completely before using the tool.

- Make sure all components of an application are thoroughly mounted before applying air pressure .
- Always follow instructions provided by the vehicle manufacturer regarding vehicle specific handling and safety measures.
- Use eye protection, safety glasses and ear defenders during the pulling process
- Keep this equipment out of reach for children.

Kamasa Tools does not take responsibility for damage or injuries caused by unsafe use, lack of maintenance or use together with components not designed to be used with this tool.

# PULL ROD IN DETAIL

K 11250



A Handle

B Impact boss

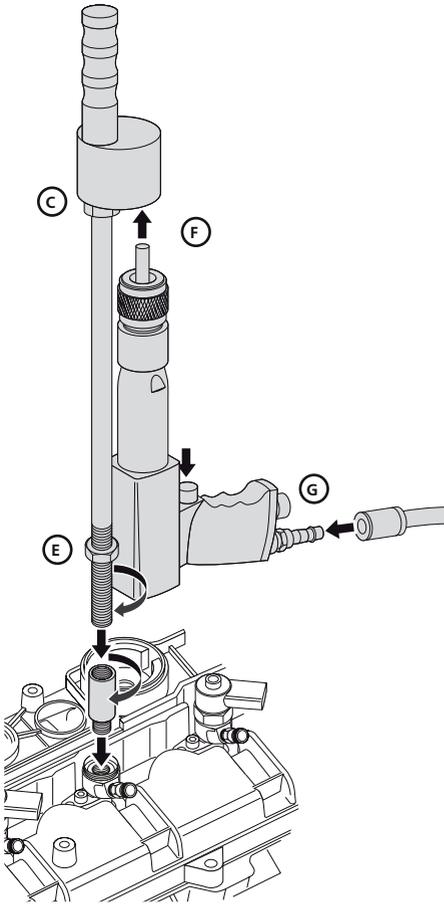
C Lock nut (mass to handle)

D Puller shaft

E Lock nut

F Impact punch

# OPERATION INSTRUCTIONS

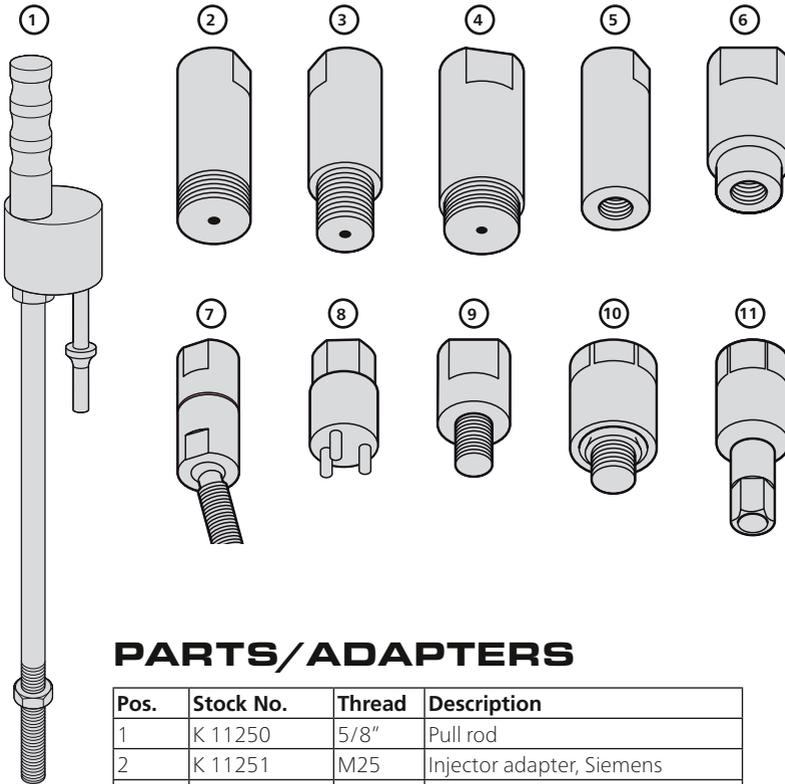


- 1 Check the handle and lock nut (C) are tight.
- 2 Fit appropriate adaptor and tighten lock nut (E).
- 3 Connect to component to be removed and tighten.
- 4 Insert the Impact Punch (F) into the air hammer and ensure it is locked in place.
- 5 Set air hammer to a low setting where possible
- 6 Insert Impact punch fully into the impact boss (B).
- 7 Operate the air hammer for 5 seconds bursts starting at a low setting.
- 8 Increase the impact and vibration level as required (G).
- 9 Once the component has started to move, ease off on the physical upward pressure being applied to ensure the component and extractor to not suddenly fly out.

**Always hold the air hammer and extractor combination with both hands. Do not use any trigger lock facility. Never pull towards face.**

**Note:** The use of an air chisel/hammer for extraction utilises high impact and vibration levels. For this reason any component removed using this method must be properly checked and tested for functionality before being refitted.

# CONTENT



## PARTS/ADAPTERS

Pos.	Stock No.	Thread	Description
1	K 11250	5/8"	Pull rod
2	K 11251	M25	Injector adapter, Siemens
3	K 11252	M20	Injector adapter, Denso
4	K 11253	M27	Injector adapter, Siemens
5	K 11254	M12	Injector adapter, high pressure
6	K 11255	M14	Injector adapter, Delphi
7	K 11256		Ball joint for ejector adapter
8	K 11258		Injector dismantling tool, Denso
9	K 11257	M16	Injector adapter, Denso
10	K 449		Dual conector adapter, Bosch
11	K 11259		Injector dismantling tool, Bosch

K 11249

[www.kamasatools.com](http://www.kamasatools.com)