

Part No. 8291

# LASER<sup>®</sup>

## Injector Removal Tool

- Vauxhall, Opel & MG Direct Injection Petrol



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## Introduction

The post 2014 model 1.0L and 1.4L direct injection petrol engines used across the Vauxhall, Opel and MG ranges have small centrally mounted fuel injector. These injectors are mounted low between the camshafts and in line with the spark plugs. It has become apparent that in order to remove these injectors some force is required. The most efficient way to do this is use of an appropriately sized slide hammer and adaptor.

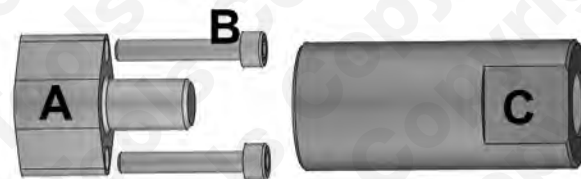
The Laser 8291 adaptor set designed to bolt directly to the fuel rail mounting on the injector allowing the attachment of a 5/8" threaded slide hammer. The 8291 kit has been designed to work with the Laser 5850 slide hammer (available separately).

NOTE: the injector are angled towards the front of the engine and must be pulled at the same angle to prevent bending the injectors.

- Petrol injector 5/8" slide hammer adaptor.
- Applications include: MG ZS (2017 - 2021), GS (2016 - 2019), Vauxhall/Opel Adam (2014 - 2020), Astra K (2015 - 2019), Cabrio/Cascada (2018 - 2019), Corsa E (2015 - 2020), Mokka X (2018 - 2020).
- Engine code applications include: **1.0L** LE1/B10XFT, 10E4E, LE1/B10XFL, LE1/D10XFL; **1.4L** B14XFT, B14XFL, D14XFL, D14XFT, LDD/D14XEL, LDD/D14XER, LE2/D14XFL, LE2/D14XFT, LUJ/D14NE, LUJ/D14NEH, LUJ/D14NEJ, LUJ/D14NEL; **1.5L** 15E4E.
- Designed to bolt directly to the 2 bolt fixing on the fuel pipe mounting plate. Equivalent to OEM TEN00140
- Designed to be used with a 5/8" threaded slide hammer, Laser recommend the use of Laser Part No 5850.

*The information provided is for reference only. Laser Tools recommends the use of Manufacturer data. Laser Tools cannot be held responsible for damage to the vehicle or personnel whilst using this tool kit.*

## Components



Ref.	OEM Ref.	Description
A	TEN00140	Injector Puller Clamp
B		Socket Head Bolts (M5) x2
C		Slide Hammer Adaptor (5/8")

## Applications

Marque, Model, Year			Engine Codes
MG	ZS	2017 to 2021	<b>1,0</b> LE1/B10XFT 10E4E
	GS	2016 to 2019	LE1/B10XFL LE1/D10XFL
Vauxhall/Opel	Adam	2014 to 2020	<b>1,4</b> B14XFT B14XFL D14XFL D14XFT
	Astra-K	2015 to 2019	LDD/D14XEL LDD/D14XER
	Cabrio/Cascada	2018 to 2019	LE2/D14XFL LE2/D14XFT
	Corsa-E	2015 to 2020	LUJ/D14NE LUJ/D14NEH LUJ/D14NEJ LUJ/D14NEL
	Mokka X	2018 to 2020	<b>1,5</b> 15E4E

## Instructions

### Instructions for use:

- Always refer to manufacturer vehicle specific data and instructions.
- Designed for use with a 5lb (2.2kg) slide hammer.

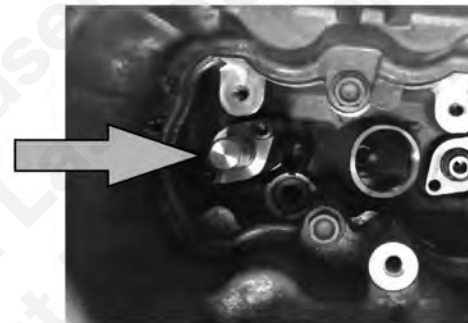


### 8291 methods of use:

#### Extraction:

- Remove the fuel injection rail and pipe assembly
- Attach the INJECTOR PULLER CLAMP (A) directly to the injector using the fixing bolts (B). See Fig 1.

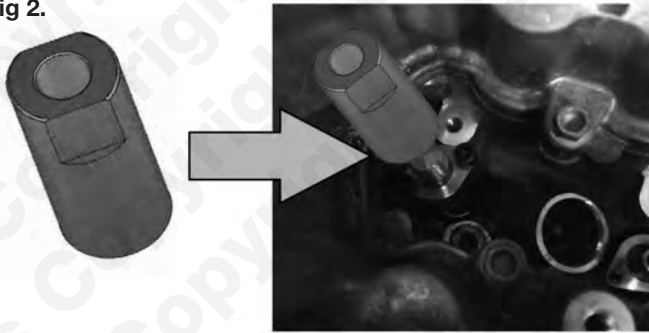
Fig 1.



## Instructions

- Attach the SLIDE HAMMER ADAPTOR (C). See Fig 2.

Fig 2.



- Attach chosen slide hammer with a 5/8" thread and tighten the lock nut. Laser recommend the use of Laser Part No. 5850 Slide Hammer 5lb (2.2kg).
- Noting the slight forward angle of the injector/slide hammer assembly ensure that the pulling pressure is applied in the same direction to prevent damaging or breaking the injector.

Fig 3.



## Safety Warnings - please read

- Wear eye and hand protection when using this tool kit. Be aware of the dangers of metal swarf and cuttings.
- Always carefully clean the tool components after each use, ensuring that there are no traces of metal swarf or cutting lubricant.
- Keep the tool components safe and tidy in the supplied case.
- Do not use the kit for any purpose other than for which it is designed.



**Safety First. Be Protected.**

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.



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