



Injectors extractor kit

Injector puller for M9R
2.0 Dci engines RENAULT,
NISSAN, OPEL, **24 pcs**

**INCLUDES: GO-THROUGH
MECHADRAULIC CYLINDER 12 TONS***

**PROFESSIONAL AND
CONVENIENT JOB**



*not included in the kit 311 195 045

Complete Kit

311 195 000

Standard Kit, MECHADRAULIC CYLINDER NOT INLCUDED

311 195 045

- i** ▶ Kit for removal of injectors mounted on engines M9R RENAULT, NISSAN and OPEL: the set allows to pull this injector with several issues of breakage in different parts of the injector body, depending on the failure noticed.
- 🔧** ▶ Double opportunity of **MECHANICAL OPERATED** Injector extraction (with bearing) or with a new super-compact **GO-THROUGH MECHADRAULIC CYLINDER**.

- 🔧** ▶ The extraction body frame and columns are created to conform to the shape and dimensions of the engine, and to fit perfectly to the fastening screws of the engine cover.
- ▶ Significant time saving in terms of complete procedure, avoiding the removal of the cylinder head or even worse, the engine removal.
- ▶ Professional and convenient job, thanks to the 12 ton go-through cylinder of the "Invisible" series by Govoni, with no particular effort for the operator.



MULTIPLE EXTRACTION OPPORTUNITIES OF THE INJECTOR, DEPENDING ON THE BREAKAGE POINT:

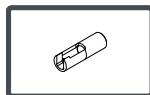
- 1 Extraction of the injector complete** (with electronic plastic connection), through "surrounding fork & plate" tool that allows to fix firmly on the upper part of the injector body
- 2 Extraction of the injector without electronic plastic connection**, with connectors and fastenings to the injector body and upper thread.
- 3 Extraction of the broken injector (or unscrewed)** on the injector valve and nozzle retaining nut, extracted via a threaded connector screw.
- 4 Release and extraction** of the blocked or seized injector nozzle and its components, with magnetic rod and expanding tool.
- 5 Extraction of the valve nozzle retaining nut** (in case of stripped upper thread) creating a new thread and consequently new connection on the cone of the nozzle housing: this operation is totally secure for the cylinder head, by former application of a sealing cap in the nozzle spraying seat, preventing that iron chips may fall down into the cylinder head.

Injectors extractor kit

Components

M9R INJECTOR EXTRACTOR WRENCH

311195003



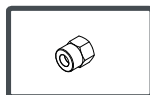
M9R INJECTOR EXTRACTOR WRENCH SOCKET

311195004



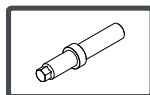
EXTRACTOR WRENCH CHECK NUT

311195005



M9R INJECTOR EXTRACTOR SOCKET INSERT

311195006



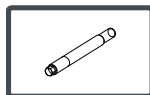
MALE THREADING M16x1.5 L=100

311195008



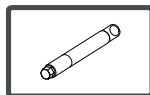
EXTRACTOR THREAD M16x1.5

311195009



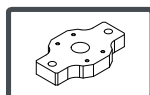
EXTRACTOR THREAD M17x0.75

311195010



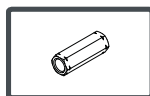
CYLINDER SUPPORT FLANGE

311195018



NUT M18x1.5 - 24 mm WRENCH L=72

311195022



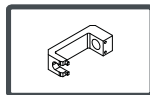
SPACER 12 mm

311195034



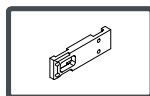
M9R INJECTOR EXTRACTOR

311195032



M9R INJECTOR EXTRACTOR PLATE

311195033



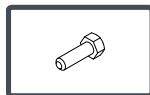
WASHER 5x10

832005000



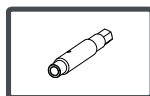
SCREW M5x16

821092000



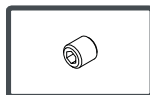
EXTENSION FOR MALE THREADING M16x1.5

311195007



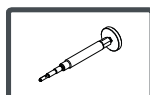
FLAT DOWEL PIN 6x6

861005000



EXPANDER TOOL

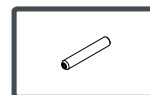
311195002



Components

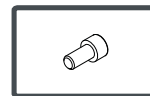
CYLINDER SUPPORT ROD

311195020



SCREW 10x20

822035000



Ø8 BUSHING FOR SEALING

311195023



ADAPTER FOR 24 mm WRENCH THREAD M14x1.5

311146013



CENTERING BUSHING

322014008



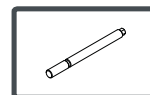
NUT M18x1.5 30 mm WRENCH

311070006



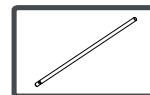
SCREW M18x1.5 L=220 mm

311146011



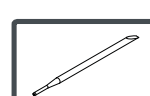
ROD FOR SEALING BUSHING

311127030



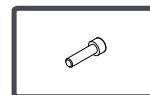
COMPLETE MAGNET FOR SEMICONES

315020007



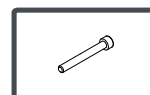
SCREW 8x30

822019000



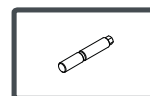
SCREW 6x50 PARTIAL THREAD

822061000



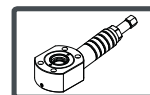
SCREW M18x1.5 L=120 mm

311195025



12-TON SUPER COMPACT MECHADRAULIC CYLINDER

270027019.AB*



M18x1.5 BUSHING

270027010*



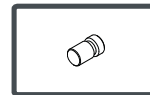
SCREWDRIVER FOR M18x1,5 BUSHING

270027009*



PIN FOR SCREW (5 pcs.)

270027020*



* not included in tool set 311195045