RT REPLAUTO TRADING - AUTOMOTION TOOLS

Splash Web Applications Tools RTools - Animation of Extraction Procedures
Removal Tools for Injectors XDi / XDi270 engines SSangYong Motor

3D Geometry Tools :: Tools RTools 1280001

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In this document is included general information about the range of Tools RTools. In the paragraph Web Links Applications we have included shortcut hyperlinks to information of the tools RTools.

In our Web Tools Catalogue, will find a wide range of applications between those which we emphasize:

- Removal tools for injectors and glow plugs
- Mechanical and hydraulic components for the extraction
- Tools to clean the housings of glow plugs and injectors
- Rebuilding threads of glow plugs in the cylinder head
- Extraction of fitting screws of injectors
- Cleaning and rebuilding injector seats
- Reparation of threads in aluminium cylinder head
- Extraction of suspension joints (ball joints), silentblocs...
- Removal tools for wiper arms
- Torque-multiplier...

In the RTools application is included a tools index and tools search engine (by references, vehicle brands - e.g. injectors, glow plugs...).

Tools index by vehicle brands are included (Mercedes-Benz, Renault, PSA Group, FIAT Group, SSangYong...).

Below, and according to the problems raised in the procedures to remove injectors and/or glow plugs stuck or seized in the cylinder head of Diesel engines, we proceed to inform about some interest aspects.

**Diesel injectors and/or glow plugs stuck or seized**

**Problematic**

The Diesel engines and especially the common-rail injection systems are notorious for the build up an excess of carbon deposits and rust around the injector and glow plug. These carbon residues are result of the process called *carbonization - coking*. When the engine is turned off, the coolant system stops circulating coolant and as consequence of this causes the tempetature to rise. The residual fuel tends to be evaporated and is produced the deposition of carbon residues in the adjacent area of combustion chamber.

With certain frequency and as a consequence of the cinder accumulation in the housings, the injectors and/or glow plugs are blocked, due to the fusion with the walls of the cylinder head, and it is practically impossible to accomplish the extraction by normal procedures...

In other occasions and due to *incorrect seat* of the injector, carbon residues are accumulated around the injector that can derive in the blockade in the housing of the cylinder head.

What is same occurs if the seat of the glow plug is defective.
The components also they can be blocked due to the effects of water ingress by splits, leading to the fusing with the aluminium cylinder head.

When the extraction is accomplished can be caused damages in the cylinder head and in occasions is required to replace the cylinder head. In any case, in these circumstances the extraction of the components requires increased repair times.

**Rtools Solutions**

To solve this problematic..., in RTools we design tools (*mechanical and hydraulic systems*) to remove the stick OR seized components with a total realiability. With our designs is avoided to produce damages in the cylinder head during the extraction. In most cases to accomplish the extraction is not required to remove the cylinder head from the engine.

**RTools Advantages**

The use of the Removal Tools RTools resulting in substantial benefits:

- Extraction of the injectors and/or glow plugs with a total reliability
- Decrease of the operative costs:
  - Remove the cylinder head is not required to accomplish the extraction
  - Damages in the cylinder head are not produced
  - Decreasing labour costs
- Very quick payback of the tools
- Costs saving to the customer
- Satisfaction of the customer

**Practical Notes**

1. Each time the injectors are removed, it should be proceed to clean the housings in the cylinder head, rebuild the injector seat and replace the sealing copper washer. If the injector seat is defective, the problem is not solved replacing only the copper washer. The reason for this is that the seat in the cylinder head has been eroded by the escaping combustion gases, resulting in damage to the seat.

2. To remove the seized glow plugs, we have found cases in which is proceeded to drill the glow plug directly..., without using an adequate center system..., these procedures are inappropriate and result in irreparable ramajes in the walls of the cylinder head. To remove the seized glow plugs and injectors are required tools that are perfectly adapted to the geometry of the cylinder head.

3. The same as for the injectors, each time the glow plugs are removed, it should be proceed to clean the housings in the cylinder head and check the perfect seat.

En RT REPLAUTO TRADING will find a complete range of tools to clean the housings of the injectors and glow plugs, as well as, tools for the rebuilding of seats.
Below, we have included some examples of procedures to remove the glow plugs and injectors blocked in the cylinder head.

To visualize our complete catalogue of removal tools, service manuals, animations of procedures..., accede to our Website with the links that will find in the paragraph Web Links Applications...

Extraction of glow plugs M10x1 from RENAULT 1.9dCi G9T/G9U engines
(RTools Ref. 6041870/6014880)

Extraction of glow plugs M12x1.25 Mercedes-Benz CDI (OM604, OM605, OM606...)
(RTools Ref. 1260000)
Extraction of injectors from RENAULT M9R 2.0dCi / M9T 2.3dCi engines
(RTools Ref. 60385195/60385205)

Web Links Applications RTools - RT REPLAUTO TRADING

We include hyperlinks to open Web applications - Tools RTools:

- Web RT REPLAUTO TRADING
  http://www.replautotrading.com/

- Links with Tools applications RTools
  Tools information: http://www.replautotrading.com/Replauto/Siteapp/Link6b.htm
  Extraction of glow plugs: http://www.replautotrading.com/Replauto/Siteapp/Link1b.htm
  Extraction of injectors: http://www.replautotrading.com/Replauto/Siteapp/Link2b.htm
  Cleaning cylinder heads: http://www.replautotrading.com/Replauto/Siteapp/Link11b.htm
Information of Tools Catalogue RTools...

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