

SUBJECT: G2.8/G2.9 Injector Removal and Core Handling Procedures

Proper removal and handling of the G2.8 and G2.9 injector cores is a crucial part of the remanufacturing process. Alliant Power has put together some guidelines for proper injector removal and core handling procedures. Following these procedures will help ensure quality core return and assist in keeping the cost of the remanufacturing process competitive.

Injector Removal G2.8

■ After the valve cover has been removed, loosen the bolts that mount the oil rail to the rocker arm carrier. Remove the oil rail by pulling straight up. Avoid prying on the rail as a side load on the injector could damage both the injector and the oil rail sealing surfaces..



Figure 1

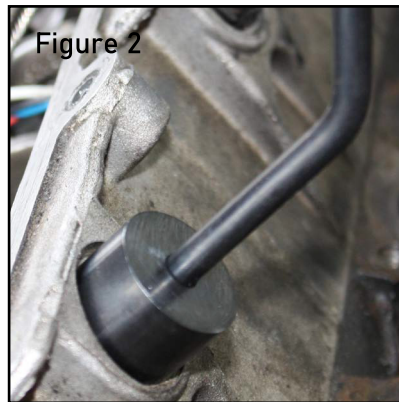


Figure 2

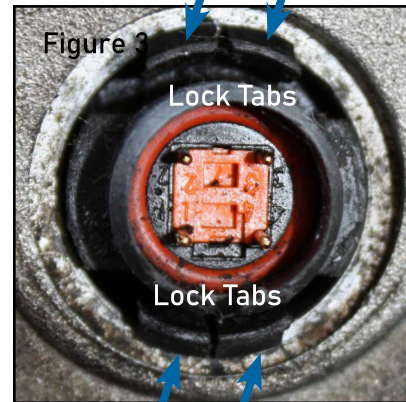


Figure 3

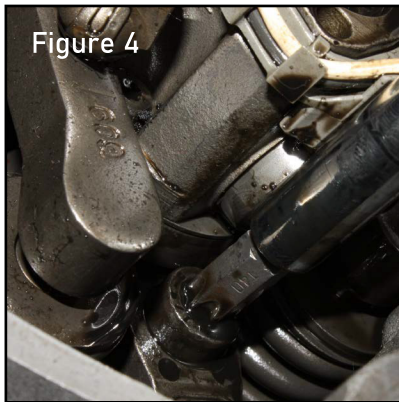


Figure 4

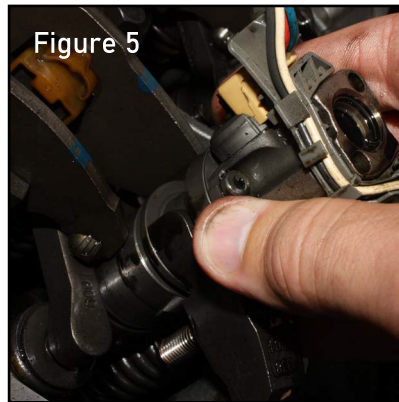


Figure 5

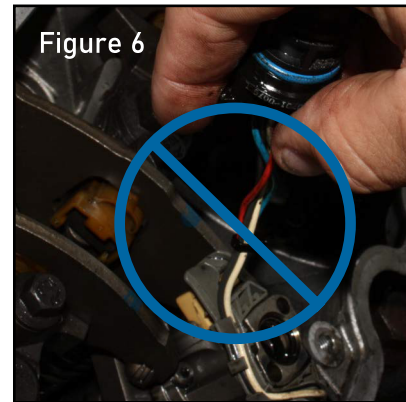


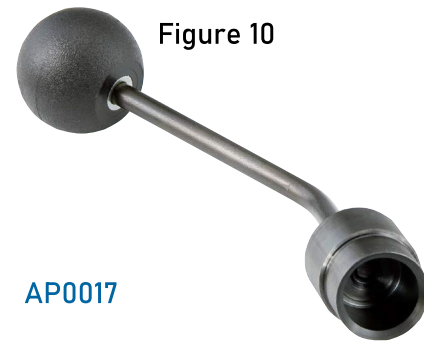
Figure 6

■ To disconnect the external wiring harness from the injector, push in the spring-loaded clip (Figure 1) and disconnect the harness from the injector connector. Using the Alliant Power AP0017 G2.8 Injector Connector Removal Tool (Figure 10), push in on the injector connector (Figure 2) to disengage the lock tabs (Figure 3) and remove the connector from the rocker arm carrier. Failure to use the proper tool may damage or break the lock tabs on the connector.

■ To remove the injector from the cylinder head, loosen the injector hold down bolt (Figure 4). As the bolt is loosened the injector will unseat from its bore and the injector can then be carefully lifted out by hand. The injector should be removed by pulling up on the injector itself (Figure 5), not by pulling on the stator wires (Figure 6). The stator wires can be fragile and technicians should be careful not to hook the wires on the rocker arms and avoid pulling or bending the wires during removal. Do not pry on the injector or injector spool valve coils as this may cause damage to the injector.

Injector Removal G2.9

■ Injector removal for the G2.9 is the same with the exception of the wire harness connectors. The G2.9 connector is a Deutsch connector that unclips by hand (Figure 7). Once the harness is disconnected, the injector can be removed using the same procedure as the G2.8.



AP0017

Recommended Core Packaging:

■ Returning your core in the original box is recommended to ensure the injector is adequately protected. Avoid excessively bending the wires as this could kink the wire and cause a break in the insulation and the wire itself. Place a cap plug on the nozzle tip (Figure 8), wrap the injector in the original bubble wrap (Figure 9) and tape the box closed. This will protect the injector from possible shipping damage.

Damaged coils, wires and connectors all add to the overall cost of remanufacturing the G2.8 and G2.9 injectors. In some cases, damage to those components can make the core unusable. Alliant Power is committed to offering the highest quality product at competitive pricing. By following proper core handling procedures this assists in keeping the product pricing competitive.

For more information visit

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