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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2012 Jeep CHEROKEE Service Manual

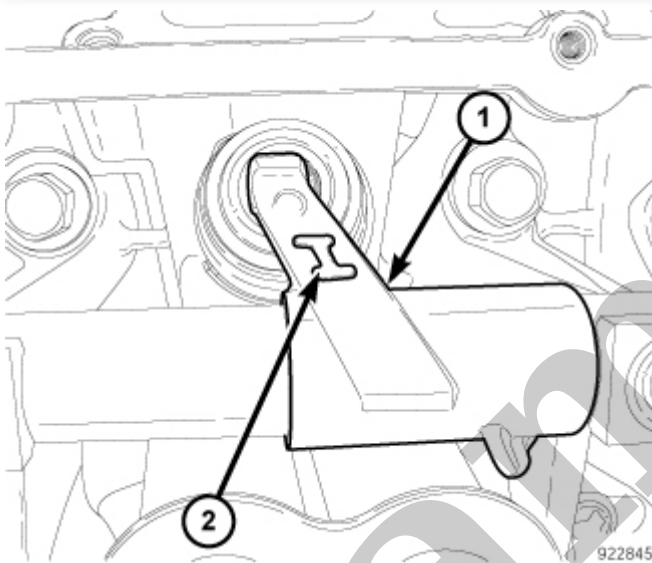
[Go to manual page](#)

1 - Retainer
2 - Rocker Arm
3 - Rocker Shaft

3. Prepare the rocker shaft assemblies for installation.

NOTE

Make sure that the retainers and the rocker arms are not overlapped when tightening the bolts or engine damage could result.



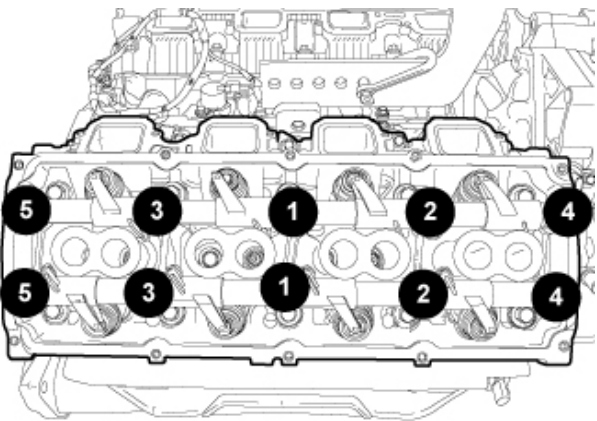
1 - Rocker Arm
2 - Stamped "I"

4. Identify the intake and exhaust rocker shafts.

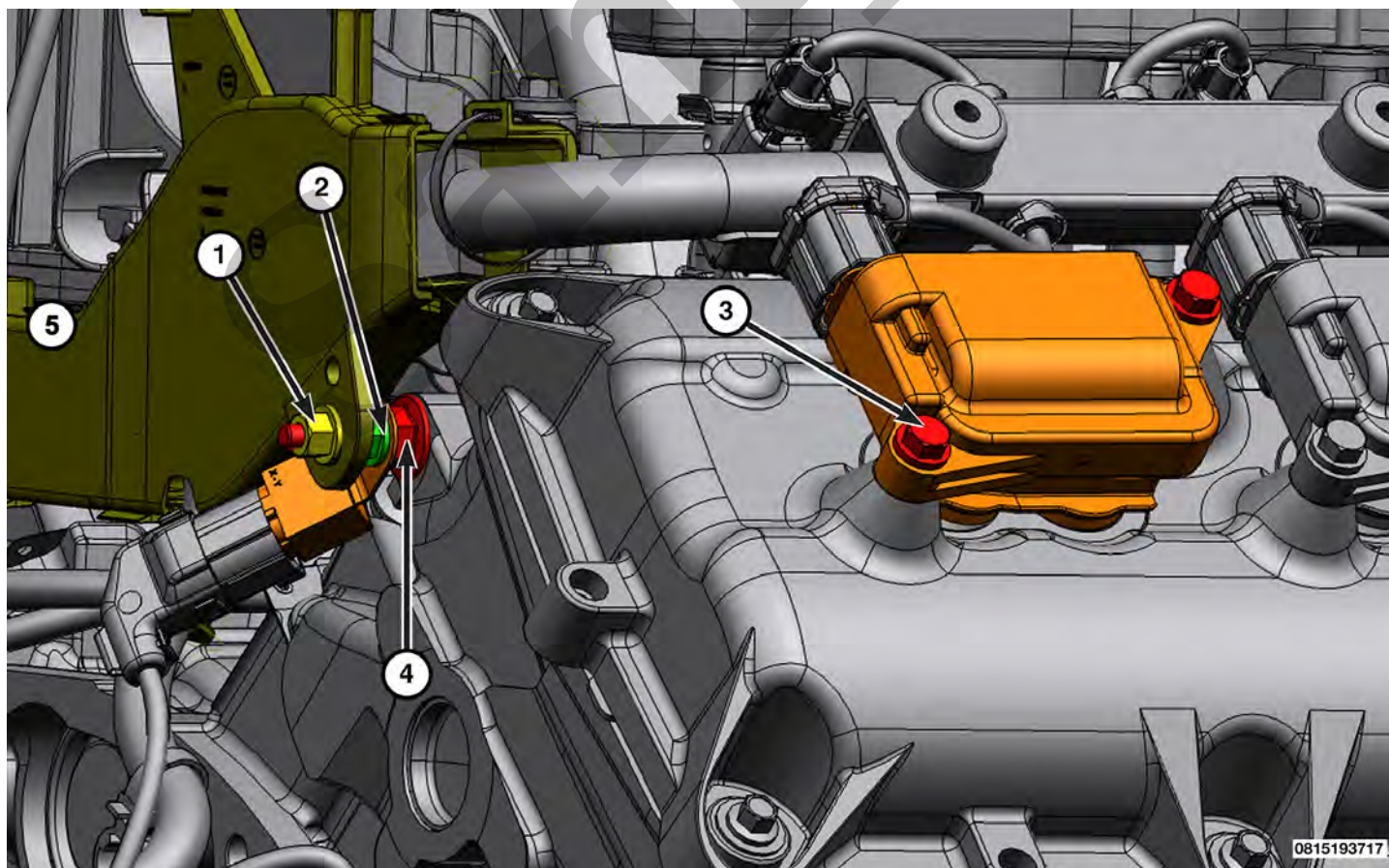
NOTE

The rocker arm shaft assemblies are not interchangeable between the intake and exhaust, failure to install them in the correct location could result in engine damage. The intake rocker arms are stamped with the letter "I".

5. Install the rocker shaft assemblies in the same order as removed.

3	Rocker Arm Bolts	<p>Torque Procedure</p> <ol style="list-style-type: none"> 1. Snug to 10 N·m (7 ft. lbs.) 2. Torque to 23 N·m (17 ft. lbs.) 3. Individually loosen by 1/2 turn and re-torque to 23 N·m (17 ft. lbs.) 4. Turn an additional 30° 	<p>Tightening Sequence</p>  <p>921225</p>
4	Cylinder Head Cover Stud Bolts	11 N·m (8 Ft. Lbs.)	-

TORQUE SPECIFICATIONS - IGNITION - 5.7L



YOUR CURRENT VEHICLE

Valve Guide Seals

VALVE GUIDE SEALS

REMOVAL

For valve guide seal removal ([Refer to Engine/Cylinder Head/SPRING\(S\), Valve/Removal and Installation](#))([Refer To List 1](#)).

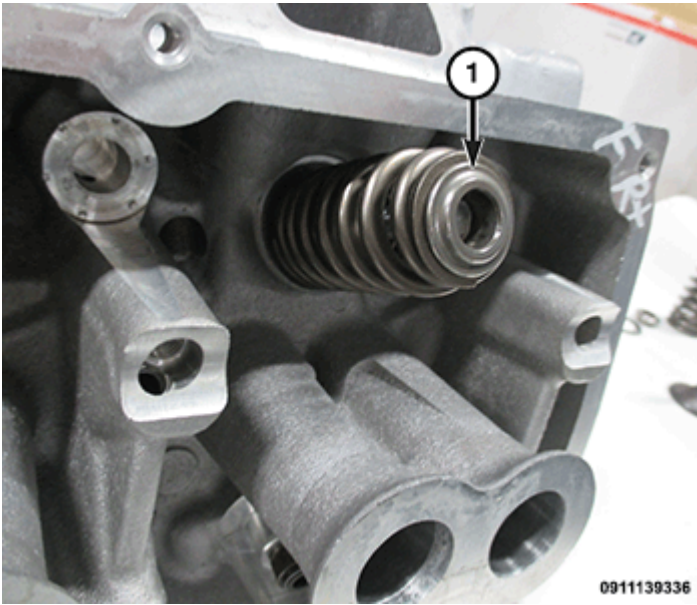
INSTALLATION

For valve guide seal installation ([Refer to Engine/Cylinder Head/SPRING\(S\), Valve/Removal and Installation](#)) ([Refer To List 1](#)).

Refer To List:

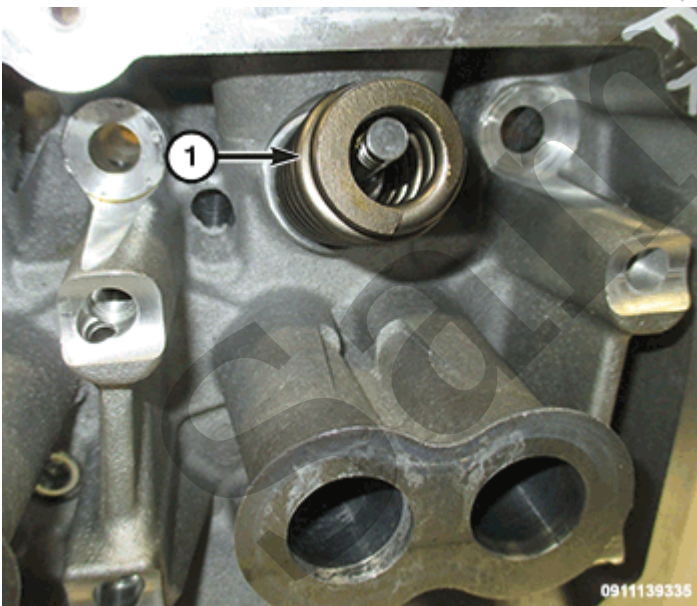
List 1

- [09 - Engine, 2.0L / Cylinder Head / SPRING\(S\), Valve / Removal and Installation](#)
- [09 - Engine, 3.6L / Cylinder Head / SPRING\(S\), Valve / Removal and Installation](#)
- [09 - Engine, 5.7L / Cylinder Head / SPRING\(S\), Valve / Removal and Installation](#)



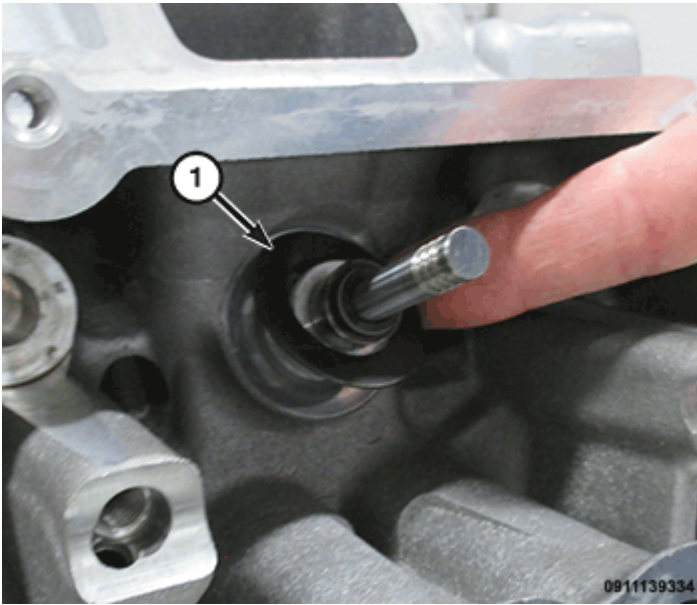
1 - Valve Spring Retainer

9. Release the spring compressor and remove valve spring retainer.



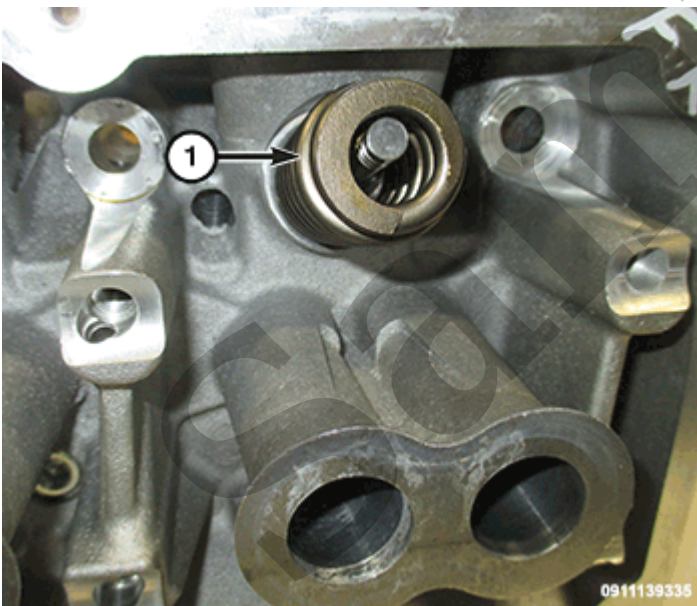
1 - Valve Spring

10. Remove the valve spring.



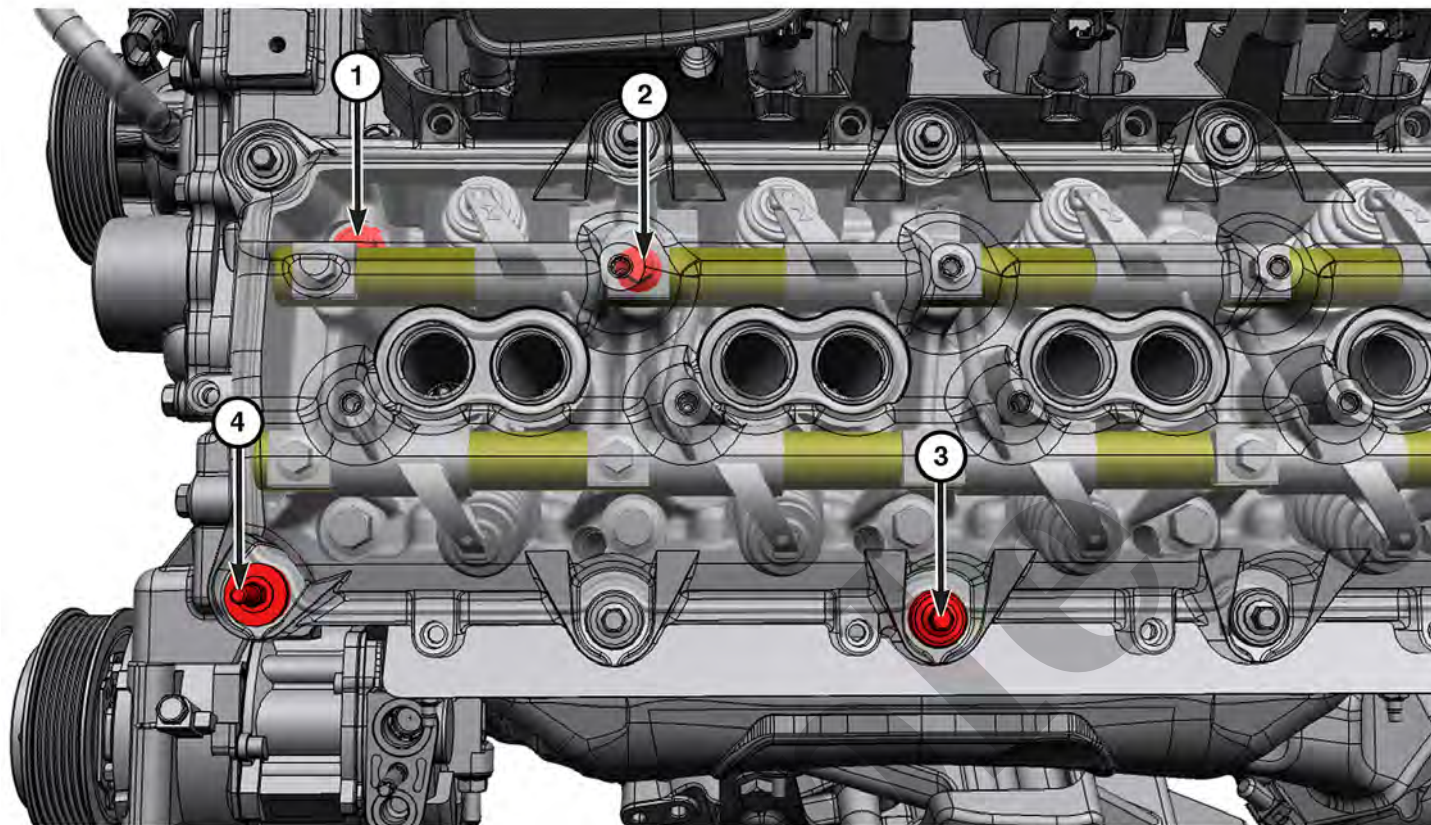
1 - Valve Spring Seat

2. Install the valve spring seat.

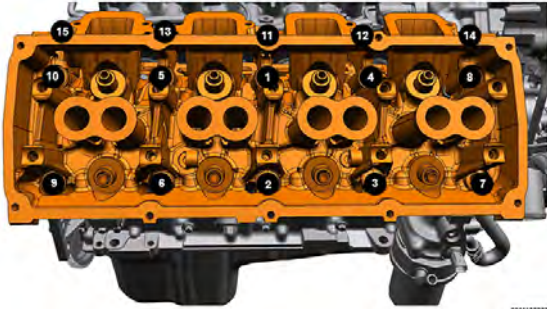


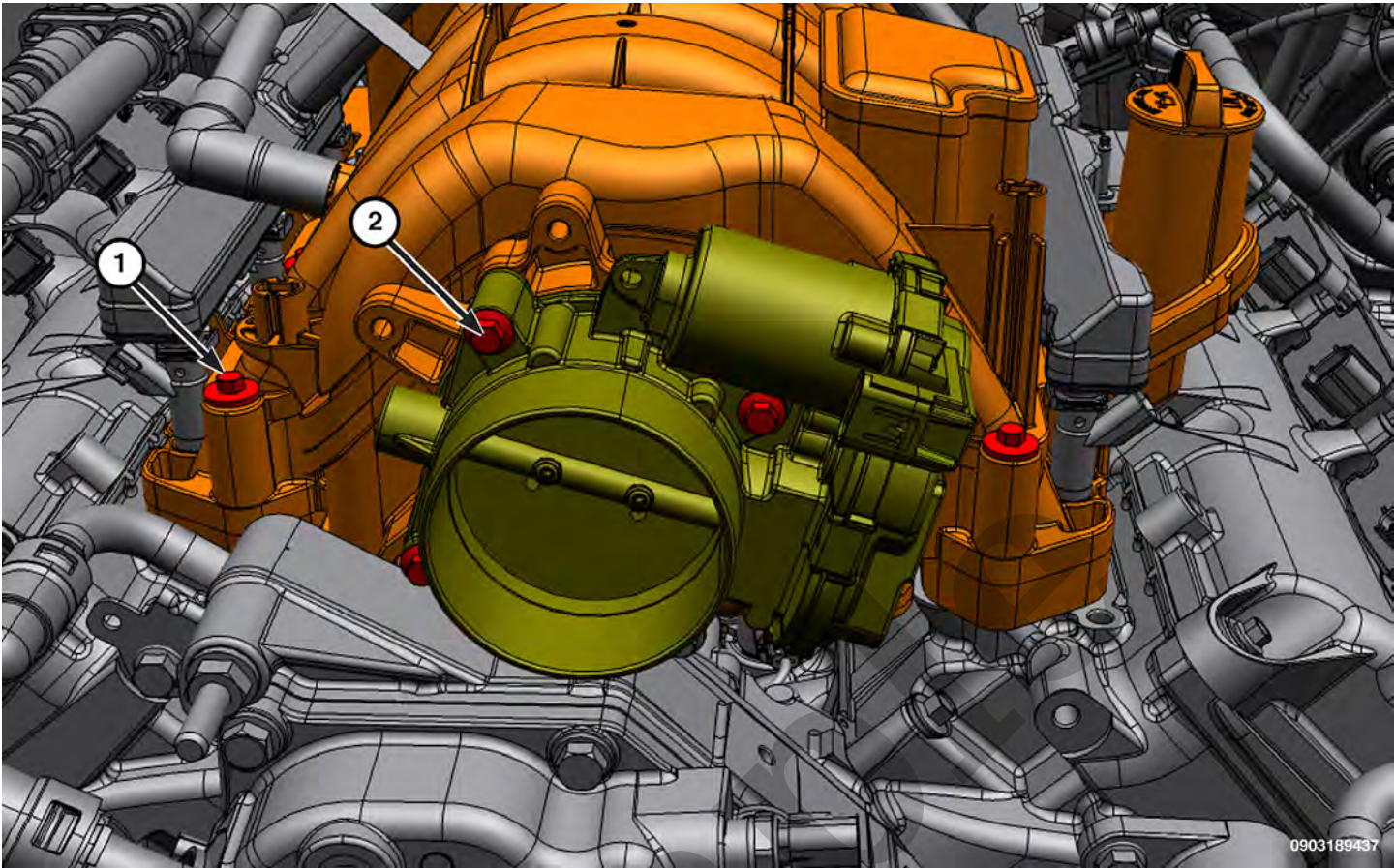
1 - Valve Spring

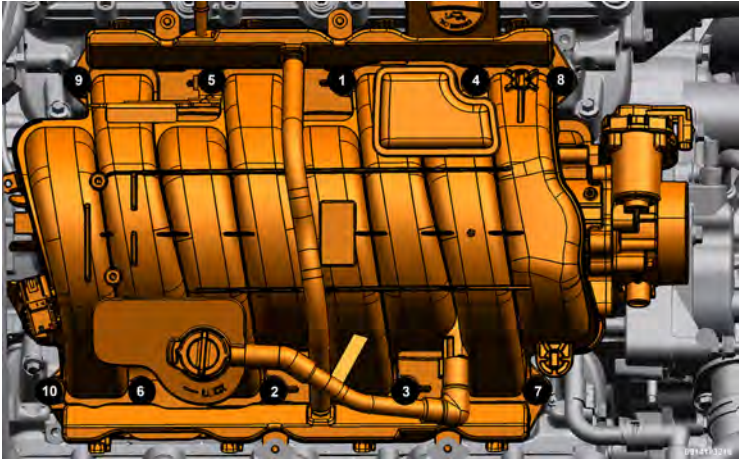
3. Install the valve spring.



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Cylinder Head Bolts	Torque Procedure <ol style="list-style-type: none"> 1. Tighten all cylinder head bolts finger tight 2. Torque cylinder head bolts 1 through 10 to 34 N·m (25 ft. lbs.) 3. Torque cylinder head bolts 11 through 15 to 20 N·m (15 ft. lbs.) 4. Torque cylinder head bolts 1 through 10 to 54 N·m (40 ft. lbs.) 	<p>Tightening Sequence</p> <p>Right side shown, left side similar</p> 



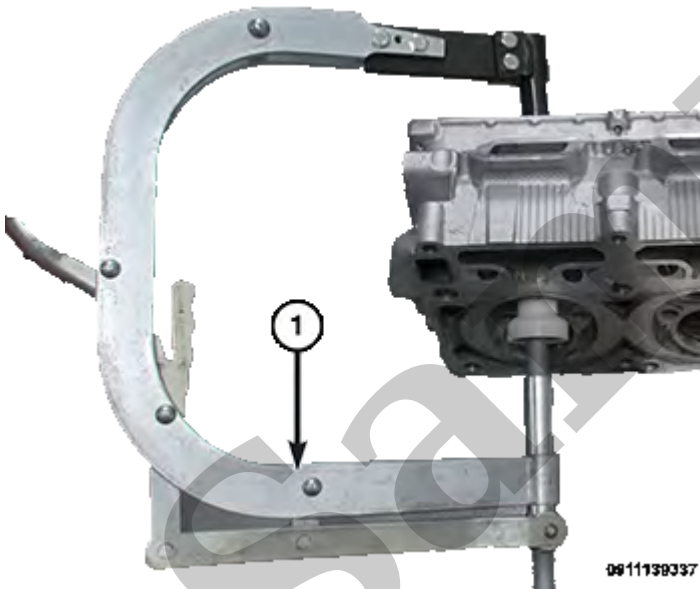
CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Intake Manifold Bolts	12 N·m (9 ft. Lbs.)	<p>Tightening Sequence</p> 
2	Throttle Body Bolts	5 N·m (44 In. Lbs.)	Tighten bolts in a crisscross sequence

Valves

VALVES

REMOVAL

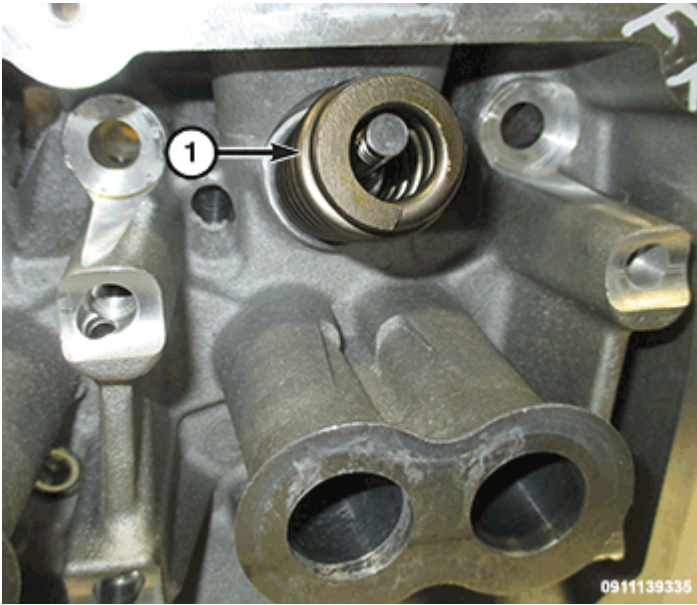
1. Remove the cylinder head ([Refer to Engine/Cylinder Head/Cylinder Head Assembly/Removal and Installation](#))([Refer To List 1](#)).



1 - Valve Spring Compressor

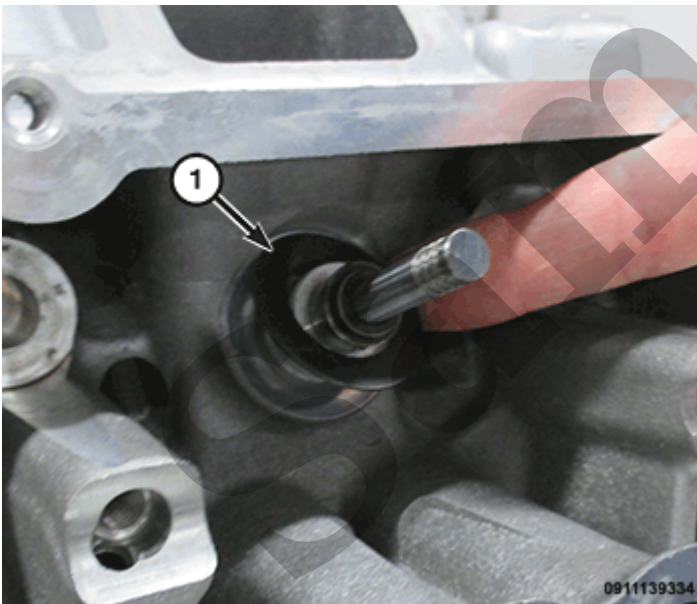
2. Compress valve springs using Valve Spring Compressor

Compressor, Valve Spring



1 - Valve Spring

5. Remove the valve springs.



1 - Valve Spring Seat

6. Remove the valve spring seat.

7. Before removing valves, remove any burrs from valve stem lock grooves to prevent damage to the valve guides. Identify valves to ensure installation in original location.