

Cylinder Head

Special Tool(s) / General Equipment

Spring Compressor

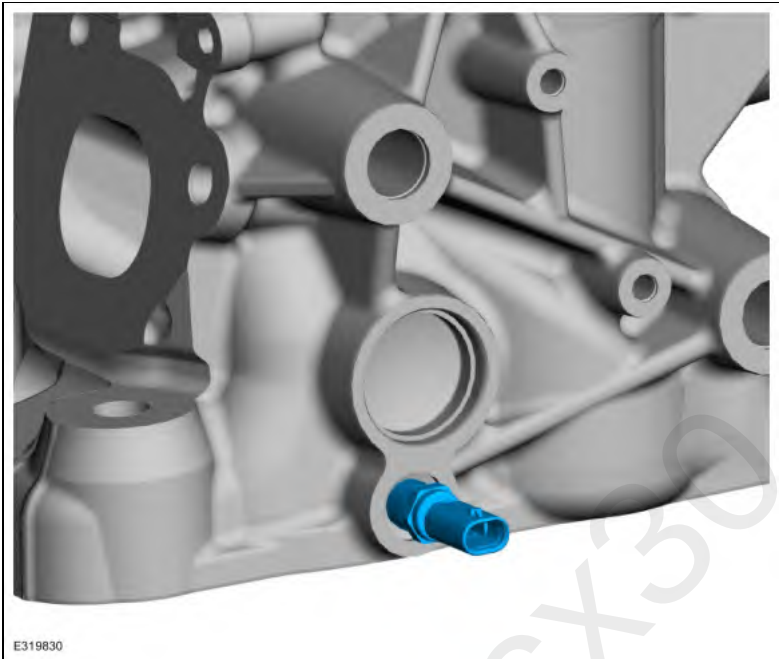
DISASSEMBLY

NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

NOTE: If the components are to be reinstalled, they must be installed in their original locations. Mark the components for installation into their original locations.

RH cylinder heads

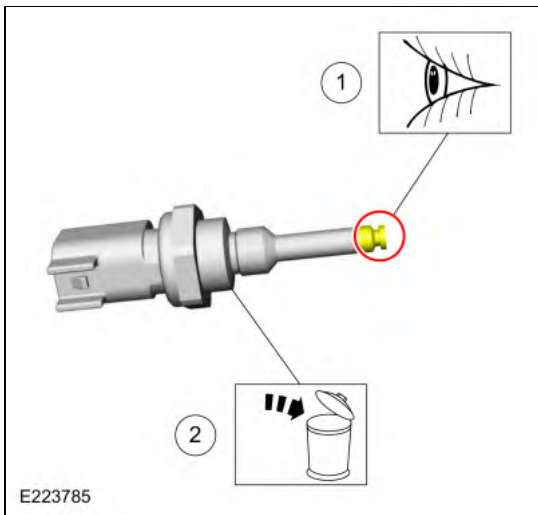
1. Remove the CHT sensor.



2.
1. **NOTICE:** This inspection is to determine if part of the CHT sensor is broken and the tip is still in the bore of the cylinder head. The CHT sensor is to be discarded, even if it is not broken.

Inspect the tip of the CHT sensor. If the tip is broken off, the piece must be removed from the bore of the cylinder head prior to installing the new CHT sensor.

2. Discard the CHT sensor.

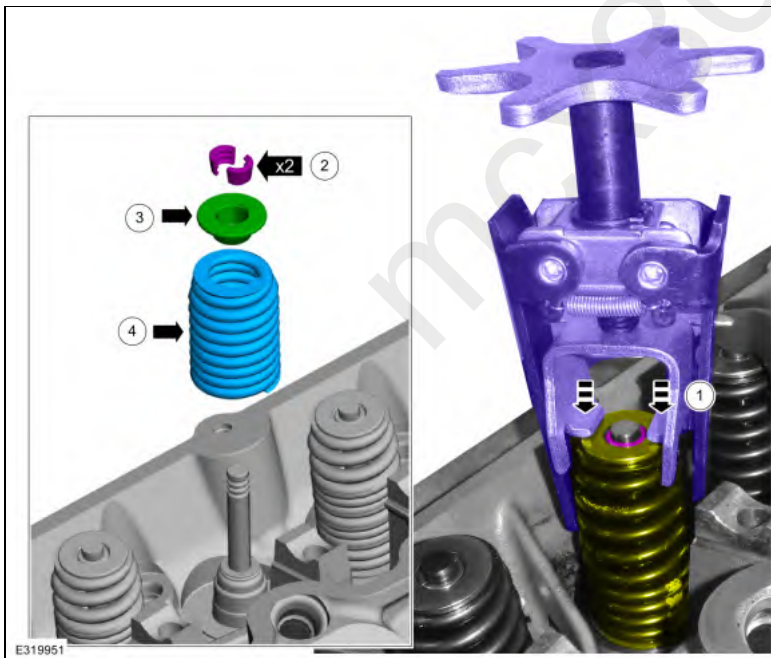


All cylinder heads

3. **NOTE:** Use a commercially available universal overhead valve spring compressor (such as an OTC 4573 or equivalent).

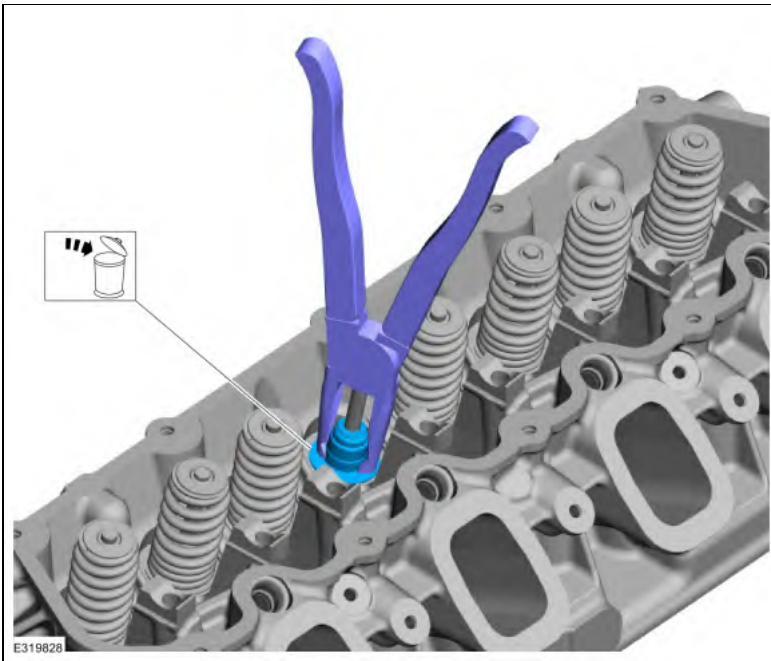
Use a universal overhead valve spring compressor to remove the keys, retainer and spring.

1. Using the spring compressor, depress the retainer and spring.
Use the General Equipment: Spring Compressor
2. Remove the keys.
3. Release the pressure on the tool and remove the tool and retainer.
4. Remove the valve spring.

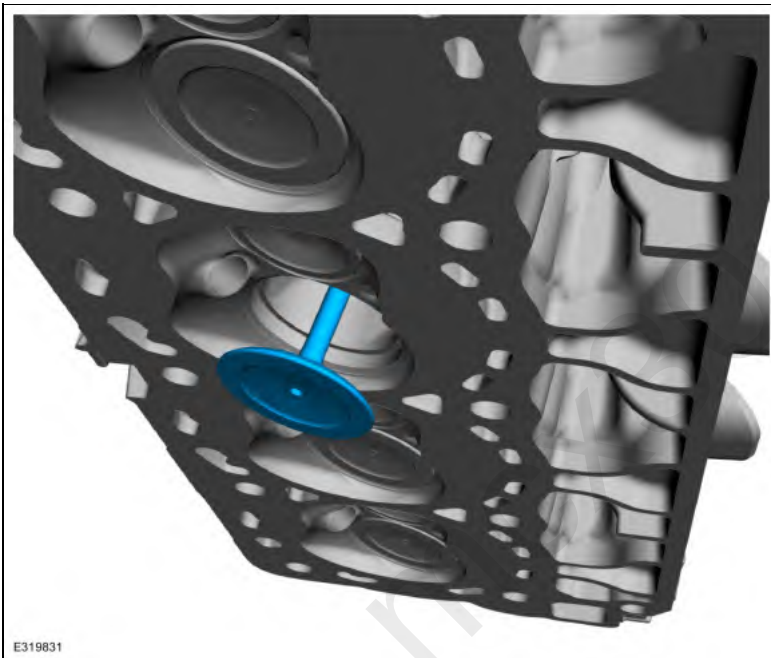


4. **NOTE:** Use commercially available valve stem seal pliers (such as BeTooll HW0107 or equivalent).

Use valve stem seal pliers to remove and discard the valve stem seal.



5. Remove the valve from the cylinder head.

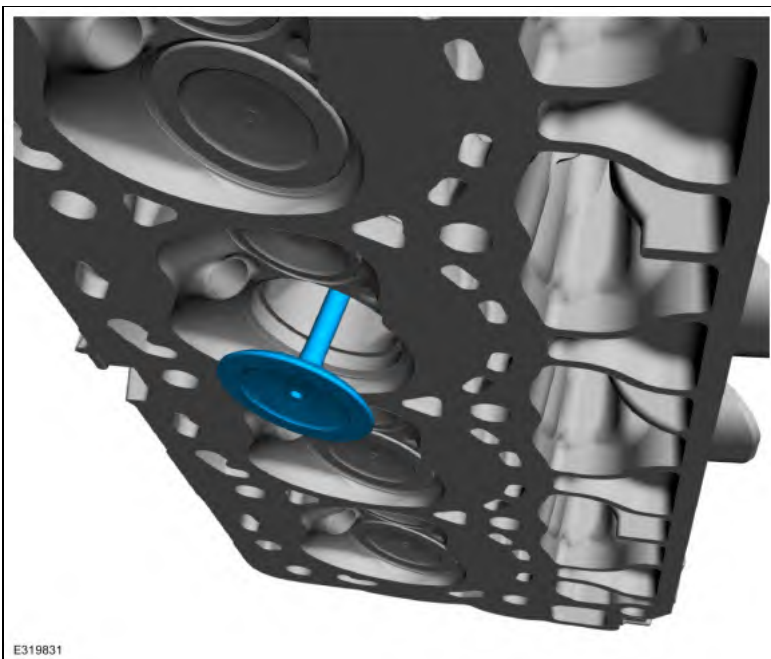


6. Repeat the previous steps for each of the remaining valves.

ASSEMBLY

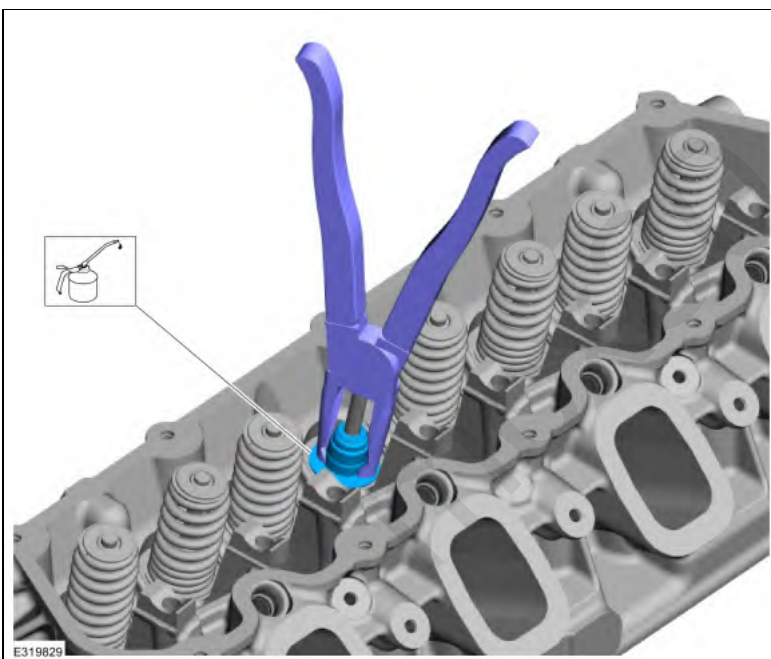
All cylinder heads

1. Install the valve into the cylinder head.



2. **NOTE:** Use commercially available valve stem seal pliers (such as BeTool HW0107 or equivalent).

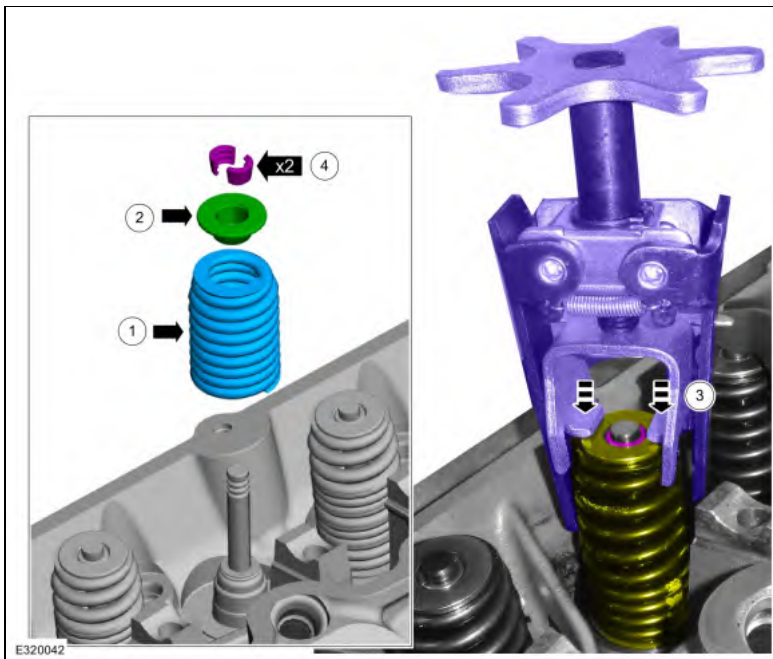
- Lubricate the valve stem seal with clean engine oil.
- Use valve stem seal pliers to install the valve stem seal.



3. **NOTE:** Use a commercially available universal overhead valve spring compressor (such as an OTC 4573 or equivalent).

Use a universal overhead valve spring compressor to install the spring, retainer and the keys.

1. Install the valve spring.
2. Install the retainer.
3. Using the spring compressor, depress the retainer and spring.
Use the General Equipment: Spring Compressor
4. Install the keys.
 - Release the pressure and remove the spring compressor.



4. Repeat the previous steps for each of the remaining valves.

RH cylinder heads

5. Install a new CHT sensor.
Torque: 89 lb.in (10 Nm)

