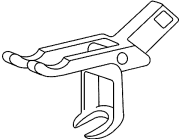
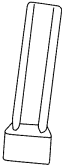


DISASSEMBLY AND ASSEMBLY
OF SUBASSEMBLIES

Cylinder Head

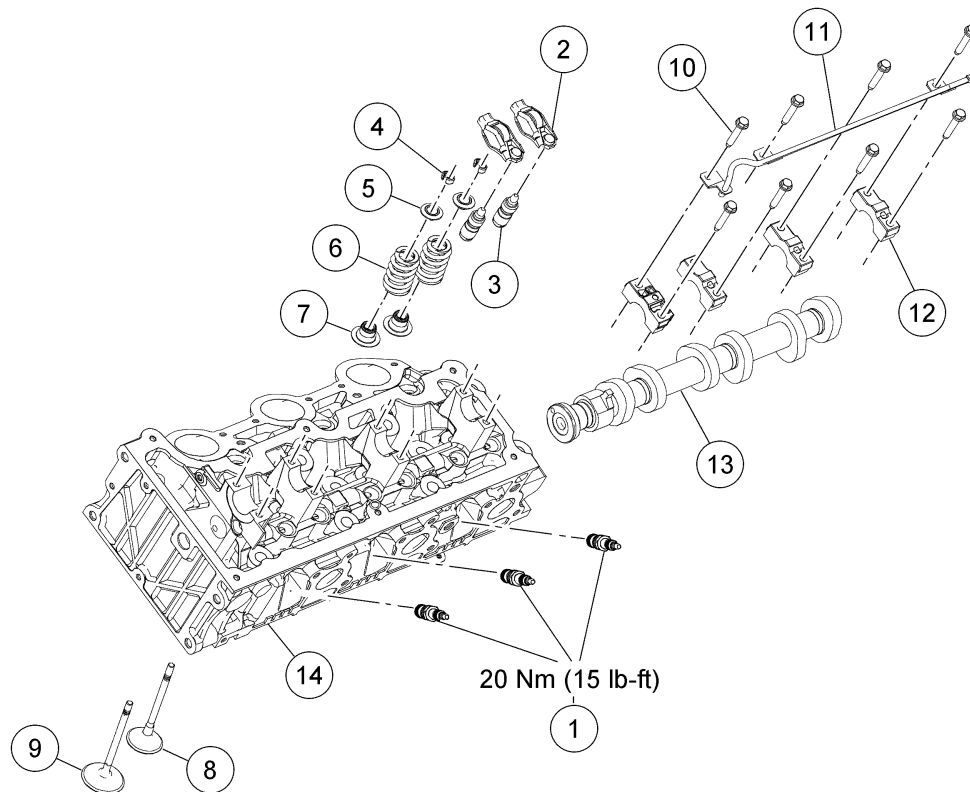
Special Tool(s)

 ST1330-A	Compressor, Valve Spring 303-581 (T97T-6565-A)
 ST1824-A	Installer, Valve Stem Oil Seal 303-370 (T90T-6571-A)

Material

Item	Specification
Motorcraft SAE 5W-30 Premium Synthetic Blend Motor XO-5W30-QSP (in Canada Motorcraft SAE 5W-30 Super Premium Motor Oil CXO-5W30-LSP12) or equivalent	WSS-M2C929-A

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

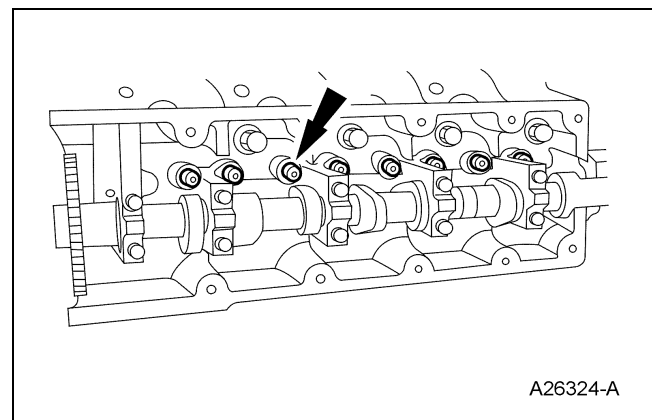


N0006365

Item	Part Number	Description
1	12405	Spark plugs (3 required)
2	6529	Camshaft roller follower
3	6C501	Hydraulic lash adjuster (6 required)
4	6518	Valve spring retainer key (12 required)
5	6A536	Valve spring retainer (6 required)
6	6513	Valve spring (6 required)
7	6571	Valve seal (6 required)
8	6505	Exhaust valve (3 required)
9	6507	Intake valve (3 required)
10	W702341	Camshaft bearing cap mounting bolt (8 required)
11	6578	Oil supply tube
12	6A528	Camshaft bearing cap (4 required)
13	6A258	LH camshaft
14	6050	LH cylinder head

Disassembly

1. Remove the spark plugs.
2. **NOTE:** Mark each hydraulic lash adjuster to make sure it is installed in its original position. Remove the hydraulic lash adjusters.



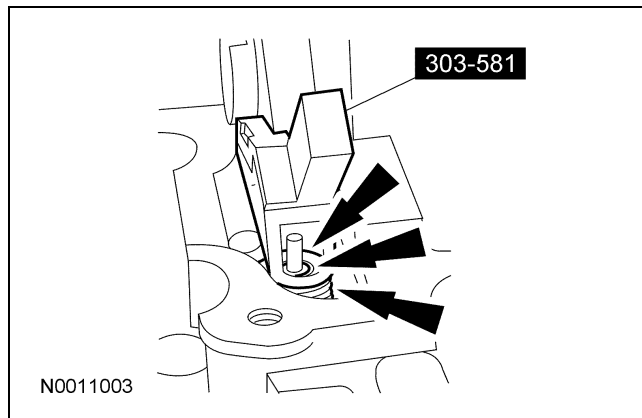
A26324-A

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

3. **NOTE:** Keep the valves, valve springs, retainers and retainer keys in order so they can be installed in their original positions.

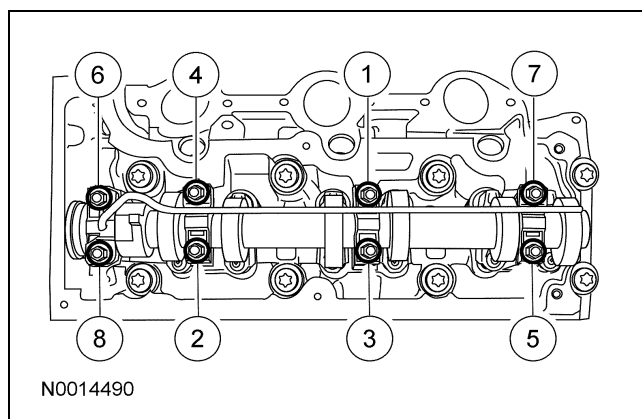
Using the special tool, remove the valve spring retainer keys, the valve spring and the retainer. Remove the valve.

- Repeat the procedure until all of the valves are removed.



4. Remove and discard the valve seals.
5. **NOTE:** Mark the position of the camshaft bearing caps so they can be installed in their original positions.

Remove the bolts in the sequence shown and remove the oil supply tube and the camshaft bearing caps.



6. Remove the camshaft.

Assembly

NOTE: Lubricate all parts with clean engine oil prior to assembly.

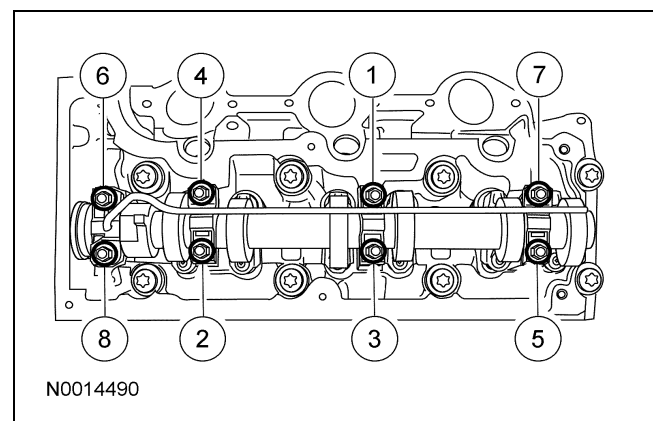
NOTE: Install the camshaft roller followers only after the cylinder head is installed in the vehicle and the timing procedure has been carried out.

1. Inspect the cylinder head. For additional information, refer to Section 303-00.
2. Position the camshaft.
3. **NOTE:** The camshaft bearing caps must be installed in their original positions.

NOTE: After installing the bolts, check the camshaft for free rotation.

Position the camshaft bearing caps, the oil supply tube and the bolts. Tighten the bolts in the sequence shown in 2 stages.

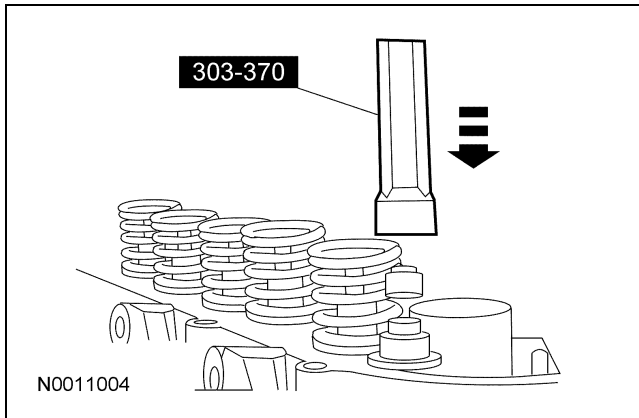
- Stage 1: Tighten to 6 Nm (53 lb-in).
- Stage 2: Tighten to 16 Nm (12 lb-ft).



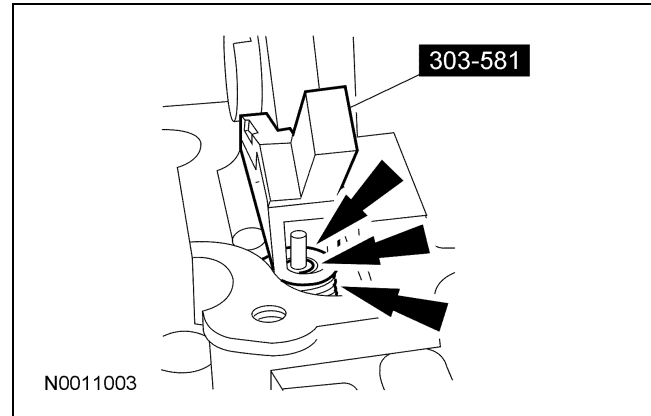
4. **NOTE:** Valves must be installed in the position from which they were removed.
- Install the valve.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

5. Using the special tool, install new valve stem seals.



6. **NOTE:** The valve springs, retainers and retainer keys must be installed in the position from which they were removed.
- Using the special tool, install the valve spring, the retainer and the retainer keys.



7. **NOTE:** Install the hydraulic lash adjusters in the same positions from which they were removed.

Install the hydraulic lash adjusters.

