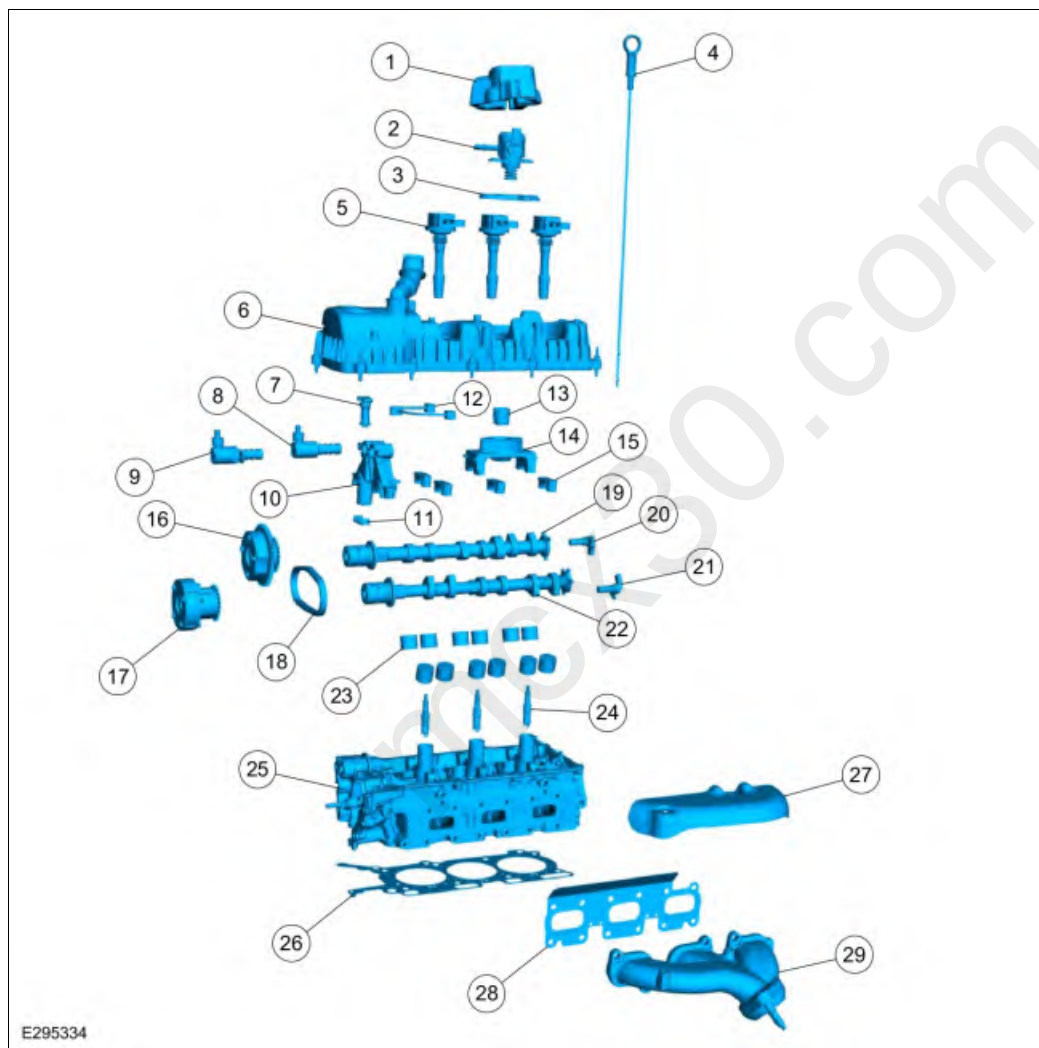


Item	Part Number	Description
1	6268	Timing chain
2	6306	Crankshaft timing sprocket
3	6L266	Primary timing chain tensioner
4	6K255	Primary timing chain tensioner arm
5	6K297	RH primary timing chain guide
6	6K297	LH upper primary timing chain guide
7	6B274	LH lower primary timing chain guide
8	8B593	Channel cover plate

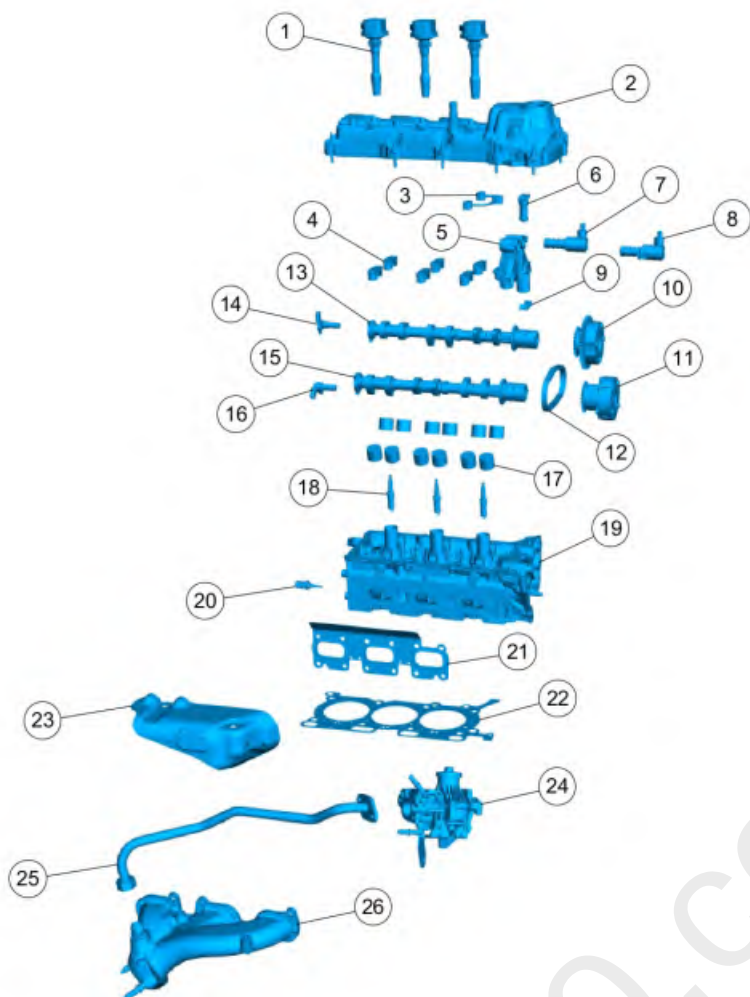
Engine Upper â€” LH Cylinder Head



Item	Part Number	Description
1	9U550	High pressure fuel pump cover
2	9D376	High pressure fuel pump
3	9178	High pressure fuel pump mounting plate
4	6750	Oil level indicator
5	12A375	LH ignition coil-on-plugs (3 required)
6	6K273	LH valve cover
7	6C270	LH secondary timing chain tensioner
8	6B297	Exhaust camshaft VCT oil control solenoid

9	6B297	Intake camshaft variable camshaft timing (VCT) oil control solenoid
10	6B280	Camshaft mega cap
11	6K297	LH secondary tensioner shoe
12	6K602	Valve train oil feed tube
13	9C587	High pressure fuel pump tappet
14	6B285	Camshaft bearing cap
15	6A258	LH camshaft cap (4 required)
16	6C524	Intake camshaft VCT unit
17	6C525	Exhaust camshaft variable camshaft timing (VCT) unit
18	6C256	LH secondary timing chain
19	6250	LH intake camshaft
20	6B288	LH exhaust camshaft position (CMP) sensor
21	6B288	LH intake CMP sensor
22	6250	LH exhaust camshaft
23	6500	Valve tappet (12 required)
24	12405	Spark plug (3 required)
25	6050	LH cylinder head
26	6083	LH cylinder head gasket
27	9Y427	LH exhaust manifold heat shield
28	9448	LH exhaust manifold gasket
29	9431	LH exhaust manifold

Engine Upper â€” RH Cylinder Head

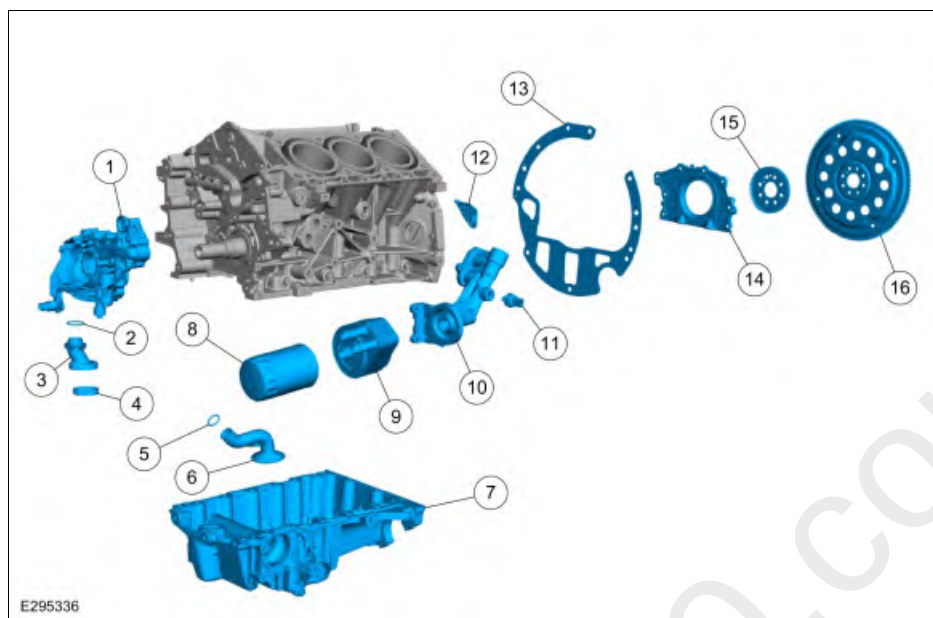


E295335

Item	Part Number	Description
1	12A375	RH ignition coil-on-plugs (3 required)
2	6K271	RH valve cover
3	6K602	Valve train oil feed tube
4	6A258	RH camshaft cap (6 required)
5	6B280	Camshaft mega cap
6	6C270	RH secondary timing chain tensioner
7	6B297	Intake camshaft VCT oil control solenoid
8	6B297	Exhaust camshaft VCT oil control solenoid
9	6K297	RH secondary tensioner shoe
10	6C524	Intake camshaft VCT unit
11	6C525	Exhaust camshaft VCT unit
12	6C256	RH secondary timing chain
13	6250	RH intake camshaft
14	6B288	RH intake CMP sensor
15	6250	RH exhaust camshaft
16	6B288	RH exhaust CMP sensor
17	6500	Valve tappet (12 required)
18	12405	Spark plug (3 required)
19	6049	RH cylinder head
20	6G004	Cylinder head temperature (CHT) sensor
21	6051	RH cylinder head gasket

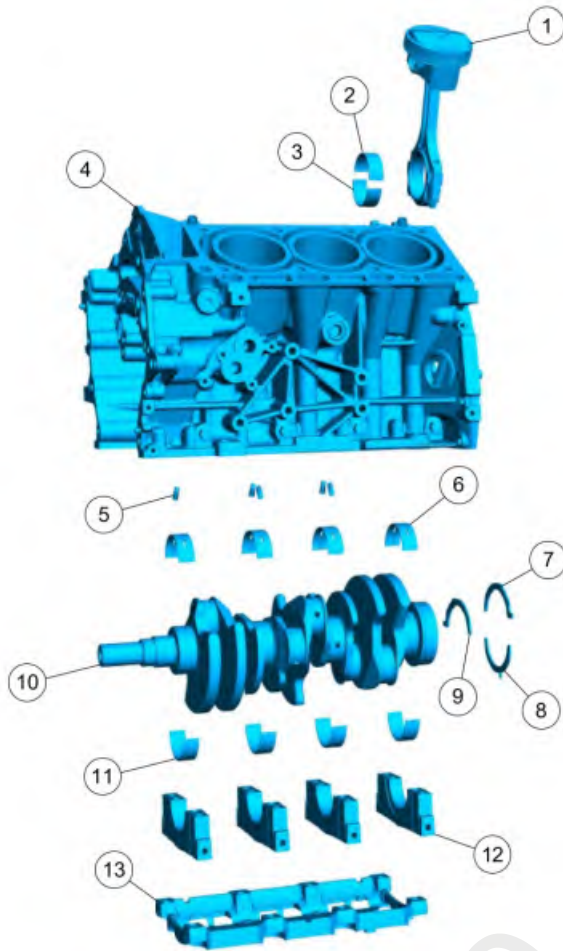
22	9448	RH exhaust manifold gasket
23	9A462	RH exhaust manifold heat shield
24	9D475	EGR (exhaust gas recirculation) valve
25	9D477	EGR to exhaust manifold tube
26	9430	RH exhaust manifold

Lower Engine Block (View 1)



Item	Part Number	Description
1	6621	Oil pump
2	â€”	Oil pump tube O-ring seal (part of 6617)
3	6617	Oil pump tube assembly
4	â€”	Oil pump tube gasket (part of 6617)
5	6625	Oil pump screen and pickup tube O-ring seal
6	6622	Oil pump screen and pickup tube
7	6675	Oil pan
8	6714	Engine oil filter
9	6U004	Oil cooler
10	6881	Oil filter adapter
11	9D290	Oil pressure sensor
12	7A828	Engine access cover
13	6A373	Engine-to-transmission spacer plate
14	6D327	Crankshaft rear seal retainer
15	12A227	Crankshaft sensor ring
16	6375	Flexplate

Lower Engine Block (View 2)



E253474

Item	Part Number	Description
1	6110	Piston and connecting rod assembly (6 required)
2	6211	Connecting rod upper bearing (6 required)
3	6211	Connecting rod lower bearing (6 required)
4	6010	Cylinder block
5	6K868	Piston oil cool valve (6 required)
6	6333	Cylinder block crankshaft main bearing (4 required)
7	6A341	Crankshaft upper thrust outer washer
8	6K302	Crankshaft lower thrust washer
9	6A341	Crankshaft upper thrust inner washer
10	6303	Crankshaft
11	6A338	Lower crankshaft main bearings (4 required)
12	â€”	Lower crankshaft main bearing caps (4 required) (part of 6010)
13	6C364	Main bearing cap support brace

Diagnosis and Testing

Engine

1. For basic mechanical concerns.
REFER to: Engine (303-00 Engine System - General Information, Diagnosis and Testing).
For driveability concerns. Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual.
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