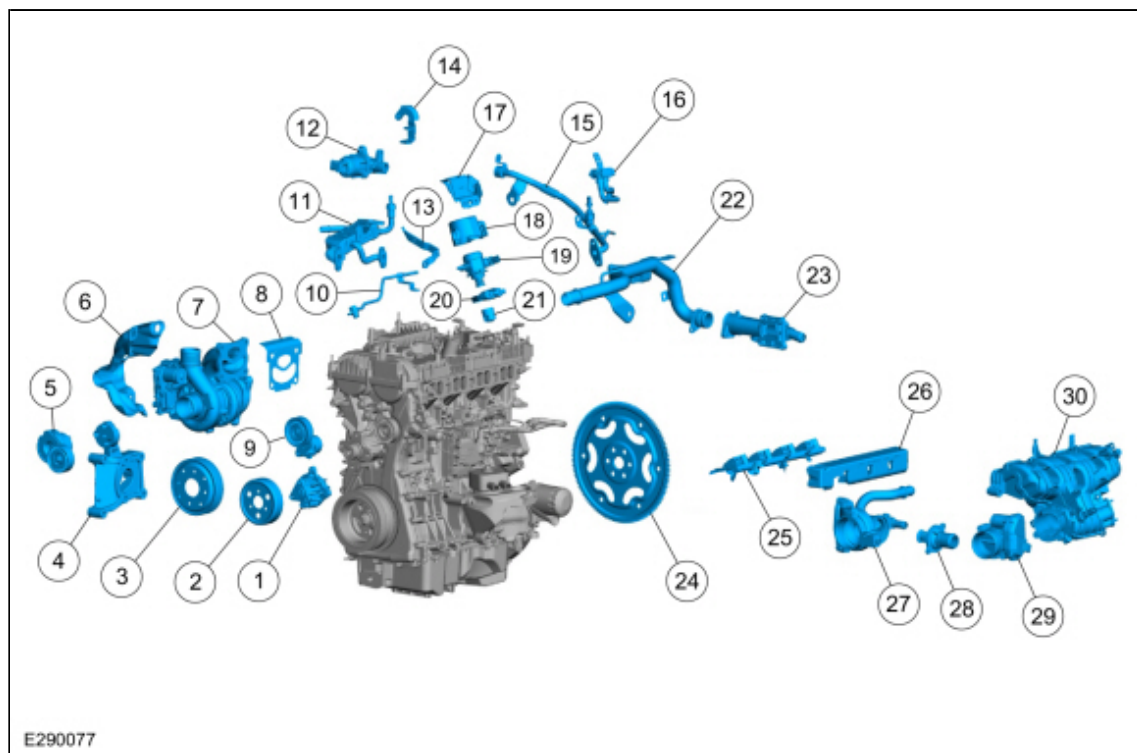


303-01 Engine - 2.3L EcoBoost (201kW/273PS)
Description and Operation

2019 Ranger
Procedure revision date: 01/4/2019

Engine Component View

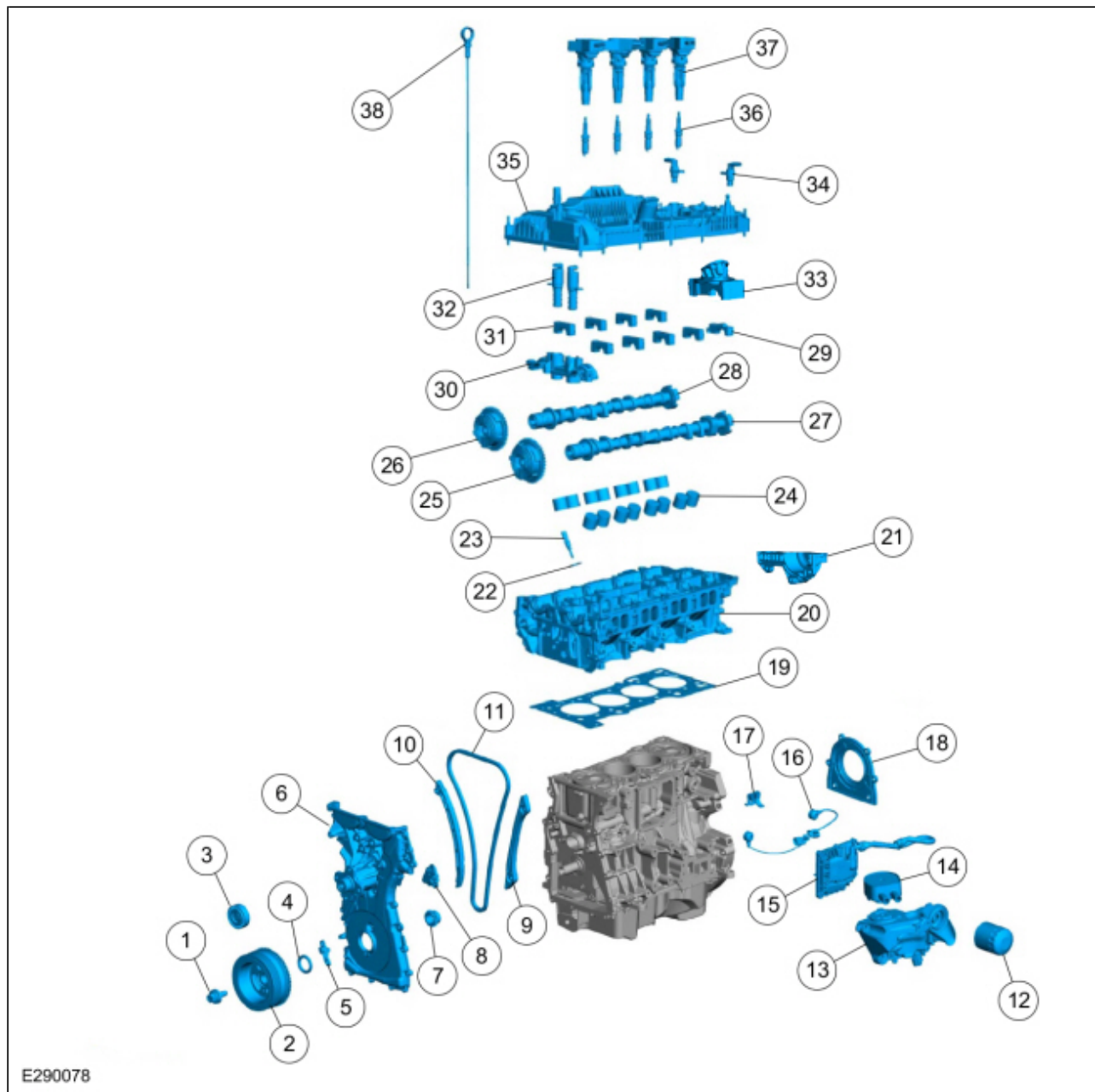
Engine — External Components



Item	Part Number	Description
1	8501	Coolant pump
2	8509	Coolant pump pulley
3	8A617	Coolant fan pulley
4	8D611	Accessory drive belt tensioner bracket
5	6A228	Accessory drive belt tensioner
6	9G479	Turbocharger heat shield
7	9G438	Turbocharger
8	9448	Turbocharger gasket
9	6A228	Accessory drive belt tensioner
10	8B535	Coolant outlet tube
11	9F464	Exhaust gas recirculation (EGR) cooler
12	9D475	EGR valve
13	9F465	EGR cooler bracket
14	9D484	EGR valve bracket

15	9E469	EGR inlet tube
16	9J433	EGR transducer
17	9A397	High-pressure fuel pump crash bracket
18	9C374	High-pressure fuel pump cover
19	9D376	High-pressure fuel pump
20	9178	High-pressure fuel pump mounting plate
21	9C587	High-pressure fuel pump tappet
22	8594	Coolant tube
23	8K556	Coolant outlet
24	6375	Flexplate
25	9F797	Fuel rail
26	9U550	Fuel rail shield
27	8C501	Coolant pump adapter
28	8575	Thermostat assembly
29	9E926	Throttle body
30	9424	Intake manifold

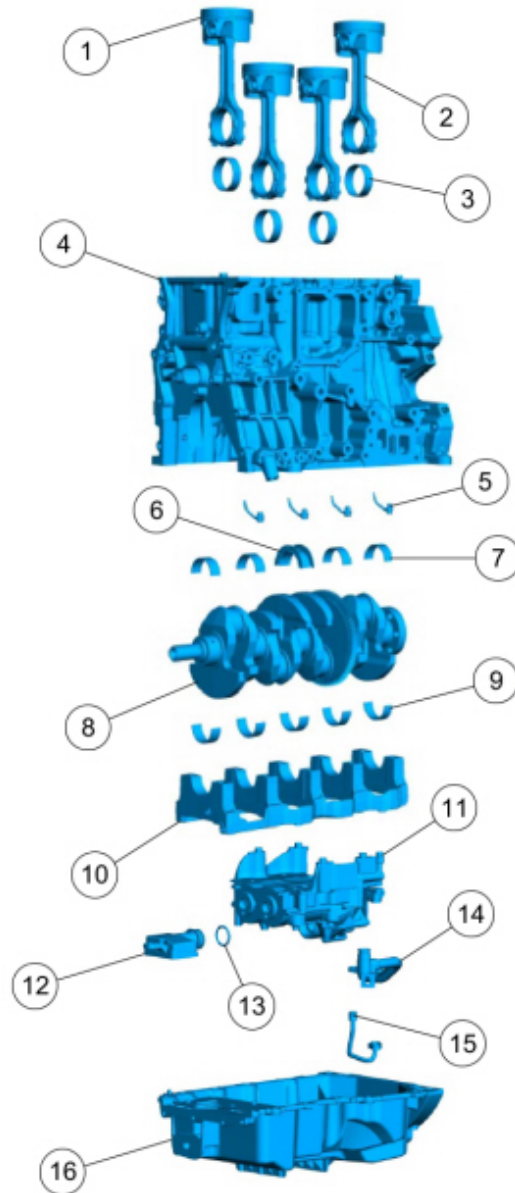
Engine — Front and Upper Components



Item	Part Number	Description
1	6K340	Crankshaft pulley bolt
2	6316	Crankshaft damper
3	19A216	Accessory drive belt idler pulley
4	6700	Crankshaft front seal
5	6C315	Crankshaft Position (CKP) sensor
6	6019	Engine front cover
7	6306	Crankshaft sprocket
8	6K254	Timing chain tensioner

9	6K297	Timing chain guide
10	6K255	Timing chain tensioner arm
11	6268	Timing chain
12	6714	Oil filter
13	6881	Oil filter adapter
14	6A642	Oil cooler
15	6A785	Crankcase vent oil separator
16	12A699	Knock sensor (KS) (2 required)
17	8K574	Coolant hose bracket
18	6K318	Crankshaft rear oil seal
19	6051	Head gasket
20	6049	Cylinder head
21	6P036	Cylinder head cover assembly
22	9A462	Cylinder head temperature (CHT) sensor heat shield
23	6G004	CHT sensor
24	6500	Valve tappet (16 required)
25	6C524	Intake variable camshaft timing (VCT) unit
26	6C525	Exhaust variable camshaft timing (VCT) unit
27	6A271	Camshaft (intake)
28	6A272	Camshaft (exhaust)
29	—	Intake camshaft rear bearing cap (part of 6049)
30	—	Camshaft front bearing cap (part of 6049)
31	—	Camshaft bearing cap (part of 6049) (8 required)
32	6B297	Variable camshaft timing (VCT) oil control solenoid (2 required)
33	9A413	High-pressure fuel pump drive unit
34	12K073	Camshaft position (CMP) sensor (2 required)
35	6K271	Valve cover
36	12405	Spark plug (4 required)
37	12A366	Ignition coil-on-plugs (4 required)
38	6750	Oil indicator

Engine — Lower Block Components



E290079

Item	Part Number	Description
1	6110	Piston (4 required)
2	6200	Connecting rod (4 required)
3	6211	Connecting rod bearing (8 required)
4	6010	Cylinder block
5	6K868	Piston oil cooler valve (4 required)
6	6337	Cylinder block crankshaft main thrust bearing
7	6333	Cylinder block crankshaft main bearing (4 required)
8	6300	Crankshaft assembly

9	6A338	Crankshaft main bearing beam bearing (5 required)
10	—	Main bearing beam (part of 6010)
11	6K360	Balance shaft and oil pump assembly
12	6622	Oil pump screen and cover assembly
13	6625	Oil pump screen and cover assembly O-ring
14	6716	Oil filter inlet tube
15	6718	Oil filter outlet tube
16	6675	Oil pan

Copyright © 2019 Ford Motor Company
