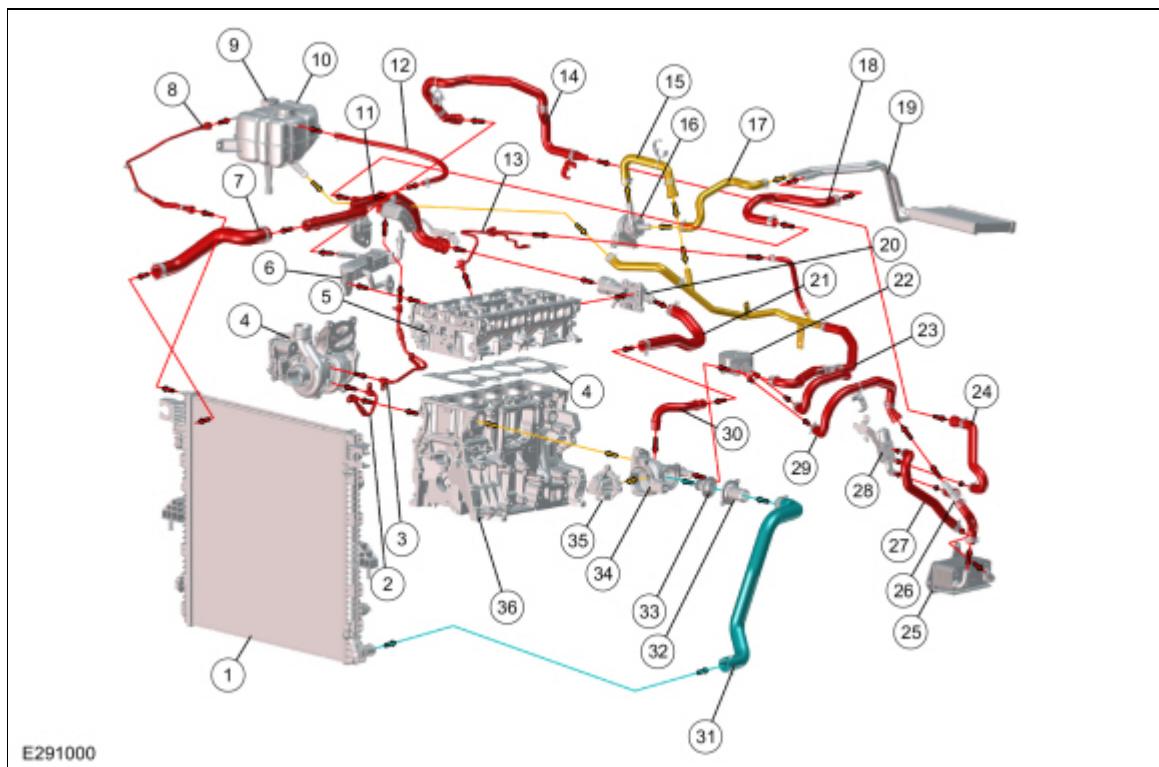


303-03 Engine Cooling - 2.3L EcoBoost (201kW/273PS) *Description and Operation*

2019 Ranger
Procedure revision date: 12/11/2018

Engine Cooling - Component Location

NOTE: Coolant temperature will vary with ambient temperature and load. Temperatures shown are for ambient temperature of 38°C (100°F). Red arrows indicate a temperature over 82.2°C (180°F), Orange arrows indicate a temperature of approximately 82.2°C (180°F), Blue arrows indicate a temperature below 82.2°C (180°F).



Item	Description
1	Radiator
2	Turbocharger inlet tube
3	Turbocharger outlet tube
4	Turbocharger
5	Cylinder head
6	<u>EGR</u> cooler
7	Upper radiator hose
8	Radiator-to-degas bottle hose
9	Pressure relief cap
10	Degas bottle
11	Coolant outlet connector tube

12	Engine degas bottle hose
13	Cylinder head/integrated exhaust manifold coolant outlet tube
14	<u>EGR</u> cooler outlet hose
15	Cabin coolant heater pump outlet hose
16	Cabin coolant heater pump
17	Heater outlet hose
18	Heater inlet hose
19	Heater core
20	Coolant outlet connector
21	Coolant bypass hose
22	Engine oil cooler
23	Lower degas bottle hose
24	Transmission coolant control valve inlet hose
25	Transmission oil cooler
26	Transmission oil cooler outlet hose
27	Transmission oil cooler inlet hose
28	Transmission coolant control valve
29	Engine oil cooler inlet hose
30	Coolant bypass tube
31	Lower radiator hose
32	Coolant inlet connector
33	Thermostat
34	Coolant pump adapter
35	Coolant pump
36	Cylinder block

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