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2.3L ECOBOOST I-4

FORD 2.3L ECOBOOST SPECS (RANGER MODELS)

The 2.3L EcoBoost is a turbocharged, direct injection, inline 4 cylinder engine designed and manufactured by Ford Motor Company. At just south of 140 cubic inches, the small package offers big power and torque; in the Ford Ranger, the 2.3L EcoBoost produces a peak 270 horsepower and 310 lb-ft of torque. Additional applications include the Ford Mustang, Ford Explorer, and Lincoln MKC (full breakdown in chart below). Coupled with a Ford 10 speed automatic transmission, the powertrain combination has earned the Ford Ranger an EPA estimated 23 combined MPG for 4x2 models and 22 combined for those equipped with 4 wheel drive. The engine's small bore, long stroke design, twin scroll turbocharger setup, and high compression ratio assists in achieving remarkable performance from an otherwise compact engine platform.

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FORD 2.3L ECOBOOST I-4 SPECS (RANGER APPLICATIONS)

Engine:	2.3L EcoBoost I-4	
Configuration:	Inline 4 cylinder	
Applications:	2019 Ford Ranger 2015 - current Ford Mustang 2016 - current Ford Explorer 2015 - current Lincoln MKC 2016 - 2018 Ford Focus	
Assembly Site:	Cleveland Engine Plant, Cleveland, Ohio	
Displacement:	137.87 CID (2.261 liters)	
Bore Diameter:	3.444 in (87.5 mm)	
Stroke Length:	3.700 in (94 mm)	
Compression Ratio:	10.0 : 1	
Firing Order:	1 - 3 - 4 - 2	
Engine Block Material:	Aluminum	
Cylinder Head Material:	Aluminum	
Fuel Type:	Unleaded gasoline, min 87 octane 91+ octane fuel recommended for maximum engine performance	
Fuel System:	Direct injection	
Aspiration:	Turbocharged; twin scroll turbocharger	
Ignition:	Individual coil on plug (COP)	
Valvetrain:	Dual overhead camshafts (DOHC)	
Engine Oil Capacity:	6.2 quarts (5.87 liters)	
Peak Horsepower:	270 HP @ 5,500 RPM	
Peak Torque:	310 lb-ft @ 3,000 RPM	
Coupled Transmission:	Ford 10R80 10 speed automatic transmission w/ auto start-stop function	
Fuel Economy:	4X2 Ranger models (2019)	21 city, 26 hwy, 23 combined MPG
	4X4 Ranger models (2019)	20 city, 24 hwy, 22 combined MPG



Cutaway of the Ford 2.3L EcoBoost I-4
Source: Ford Motor Company

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