

ENGINE:

Type	Aluminum, 90 degree V8 with variable intake manifold, continuous camshaft adjustment, DOHC		
Arrangement	Front mounted, longitudinal		
Bore	3.33 in.	84.5 mm	
Stroke	3.65 in.	92.8 mm	
Displacement	254.0 cu. in.	4163 cc	
Compression ratio	12.5:1		
Fuel requirement	Premium unleaded 91 RON / 95 RON recommended for maximum performance		
Horsepower (European)	350 hp	@ 6800 rpm	
Torque	325 lbs. ft.	@ 3500 rpm	440 Nm

ENGINE DESIGN:

Cylinder block	High integrity aluminum cylinder block
Crankshaft	Forged steel
Cylinder head	Aluminum alloy
Valve train / intake	DOHC chain driven, hydraulic valve lifters, two-stage variable intake manifold
Firing order	1 - 5 - 4 - 8 - 6 - 3 - 7 - 2
Cooling system	Water-cooled, thermostatically controlled radiator fan
Lubrication system	Gear pump, pressurized, full flow with oil cooler
Fuel injection / Ignition system	Fully electronic engine management utilizing Bosch Motronic® 9.1.1., sequential, direct injection with adaptive idle-charge control, acceleration enrichment, overrun fuel cut-off, adaptive lambda control, mapped ignition with solid-state high-voltage distribution via single spark coils, cylinder selective adaptive knock control with four sensors
Emission system	Dual 3-way catalytic converters w/individual oxygen sensors

ELECTRICAL SYSTEM:

Battery	12 volts	95 amp/hr
Alternator	14 volts	190 amp

DRIVETRAIN:

Transmissions	6-speed automatic with Tiptronic®		
Gear ratios:	1st	4.148:1	
	2nd	2.370:1	
	3rd	1.556:1	
	4th	1.155:1	
	5th	0.859:1	
	6th	0.686:1	
	rear Final Drive	3.394:1	
Front Differential	Hypoid gear		
Center Differential	TORSEN® (TORque SENsing) differential providing automatic and variable front to rear power proportioning		
Rear Differential	Hypoid gear		

STEERING:

Type	Maintenance-free rack-and-pinion steering with power assist		
Ratio	16.5:1		
Turns (lock-to-lock)	2.66		
Turning circle (curb-to-curb)	39.4 ft	12 m	

SUSPENSION:

Front	Front double wishbone independent steel spring suspension Optional 4-Corner adjustable air suspension with five suspension settings
Rear	Rear four link independent steel spring suspension Optional 4-Corner adjustable air suspension with five suspension settings, additional mode to lower rear axle for loading the trunk

BRAKES:

Service brake	Dual circuit brake system with diagonal split, Anti-lock Brake System (ABS), Electronic Brake pressure Distribution (EBD) and Electronic Stabilization Program (ESP); tandem brake booster		
Front, size and type	13.8 in.	350 mm	- Ventilated disc
Rear, size and type	13.0 in.	330 mm	- Ventilated disc
Parking brake	Mechanically actuated at the rear wheels		

WHEELS:

	Standard 18" (CV8)	Optional 19" (CJ3)	Optional 20" (CS5)
Size	8.5J x 18	8.5Jx19	9Jx20
Offset	58 mm	62 mm	60 mm
Weight	14.000 g	15.000 g	16.800 g
Type	Cast alloy	Cast alloy	Cast alloy

TIRES:

	Standard 18" (HS8)	Optional 19" (HL7)	Optional 20" (HL8)
Size	255/55	265/50	275/45
Speed rating	H	H	H
Construction	Radial	Radial	Radial
Load Index	109	110	110
Brand / Type (all approved)	Bridgestone Dueler HL 400	Goodyear Eagle LS2	Conti 4x4 Contact
	Conti 4x4 Contact	Conti 4x4 Contact	-

