



## 2009 KIA OPTIMA SPECIFICATIONS

GENERAL INFO	
Body configuration	Four-door sedan
Body type	Steel unibody
Drivetrain layout	Front engine, front drive
Passenger capacity	5

ENGINE	2.4L I4	2.7L V6
Type	In-line four-cylinder, aluminum block and aluminum head	60-degree six-cylinder, aluminum block and aluminum heads
Valve gear	DOHC, four valves/cylinder	DOHC, four valves/cylinder
Horsepower (hp @ rpm)	175 @ 6000	194 @ 6000
Torque (lb.-ft. @ rpm)	169 @ 4000	184 @ 4500
Bore x stroke (mm)	88.0 x 97.0	86.7 x 75.0
Displacement (cc)	2359	2656
Compression ratio	10.5:1	10.4:1
Emissions rating	50-state: LEV-II (ULEV) Tier-2 (Bin 5)	50-state: LEV-II (ULEV) Tier-2 (Bin 5)
Fuel tank capacity (gal.)	16.4	16.4
Coolant capacity (qt.)	7.3	8.8
Engine oil capacity (qt.)	4.5	4.8

DRIVETRAIN	
Transmission	Five-speed manual, overdrive Electronically-controlled five-speed automatic, overdrive w/ Sportmatic™
Gear ratios :1	M/T A/T
1 <sup>st</sup>	3.267 3.789
2 <sup>nd</sup>	1.794 2.064
3 <sup>rd</sup>	1.552 1.421
4 <sup>th</sup>	1.176 1.034
5 <sup>th</sup>	0.921 0.728
Reverse	3.416 3.808
Final drive	4.333 (1 <sup>st</sup> , 2 <sup>nd</sup> and reverse) 3.250 (3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> )

SUSPENSION	
Front	Independent, MacPherson struts, coil springs, anti-roll bar
Rear	Independent, multi-link, coil springs, anti-roll bar

STEERING	
Type	Engine-speed-sensitive, power-assisted rack-and-pinion
Turns, lock-to-lock	2.9
Turning circle, curb-to-curb (ft.)	35.5

<b>DIMENSIONS (in.)</b>	
<b>Exterior:</b>	
Overall length	189.0
Overall width	71.1
Overall height	58.3
Wheelbase	107.1
Track, front/rear	61.5 / 61.1
Ground clearance	6.3
<b>Interior:</b>	
Headroom, front/rear	39.8 / 38.0
Shoulder room, front/rear	57.1 / 56.3
Legroom, front/rear	43.7 / 37.8
Hip room, front/rear	54.5 / 54.7
Interior volume (cu. ft.)	104.2
Cargo volume (cu. ft.)	15.0

<b>CURB WEIGHT (lb.)</b>	<b>2.4L I4</b>	<b>2.7L V6</b>
Five-speed manual	3157	--
Five-speed automatic	3179	3294
Weight distribution (front/rear)	M/T: 61 / 39 A/T: 61 / 39	62 / 38

<b>BRAKES</b>	
Type	Hydraulic, vacuum power-assisted Four-sensor, four-channel ABS
Front	11.0-inch ventilated discs
Rear	10.3-inch discs

<b>TIRES &amp; WHEELS</b>	<b>2.4L I4</b>	<b>2.7L V6</b>
Tires	P205/60R16 P215/50R17	P205/60R16 P215/50R17
Wheels	6.5J x 16, 6.5J x 17, alloy	6.5J x 16, 6.5J x 17, alloy

<b>FUEL ECONOMY (mpg)</b>	<b>2.4L I4</b>	<b>2.7L V6</b>
	City/Highway	
M/T	22 / 32	--
A/T	22 / 32	20 / 28