

2005 DODGE MAGNUM LAUNCH

March 1, 2004

SPECIFICATIONS

Dimensions are in inches (millimeters) unless otherwise noted.

GENERAL INFORMATION

Body Style	Sport Tourer
Assembly Plant	Brampton, Ontario, Canada
EPA Vehicle Class	Multi-purpose vehicle
Introduction Date	Spring 2004 and 2005 model

ENGINE: 2.7-LITER DOHC 24-VALVE V-6

Standard. – SE

Type and Description	60 degree bank angle, liquid-cooled, active dual-tuned intake manifold with electronically controlled manifold tuning valve
Displacement	167 cu. in. (2736 cu cm)
Bore x Stroke	3.38 x 3.09 (86 x 78.5)
Valve System	DOHC, 24 valves, hydraulic end-pivot roller followers
Fuel Injection	Sequential, multi-port, electronic
Construction	Semi-permanent mold aluminum block with cast in iron liners cross bolted main bearing caps, cast aluminum heads
Compression Ratio	9.7:1
Power (SAE net)	190 bhp (142 kW) @ 6400 rpm (70.4 bhp/liter)
Torque (SAE net)	190 lb.-ft. (258 N•m) @ 4000 rpm
Max. Engine Speed	6600 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R+M)/2
Oil Capacity	6 qt. (5.7 L) with dry filter
Coolant Capacity	9.5 qt. (9 L)
Emission Controls	Dual close-coupled 3-way catalytic converters, quad heated oxygen sensors and internal engine features1
Max. Gross Trailer Weight	1000 lbs. (454 kg)
EPA Fuel Economy	MPG City/Hwy.) 21/28

(Footnotes)1 Meets Federal Tier 2, Bin 8 emissions requirements; marketed in California as an ULEV1 (Ultra-Low Emission Vehicle) under cleanest vehicle rules.

ENGINE: 3.5-LITER HIGH OUTPUT SOHC 24-VALVE V-6

Standard – SXT

Type and Description	60-degree, liquid-cooled, active three- plenum intake manifold with electronically controlled manifold tuning valve and short-runner valves
Displacement	214.7 cu. in. (3518 cu. cm)
Bore x Stroke	3.78 x 3.19 (96 x 81)
Valve System	SOHC, 24 valves, hydraulic, center-pivot roller rocker arms
Fuel Injection	Sequential, multi-port, electronic
Construction	Precision cast mold aluminum block with cast in iron liners, cross- bolted main bearing caps and cast aluminum heads
Compression Ratio	10.10:1
Power (SAE net)	250 bhp (186 kW) @ 6400 rpm (70.0 bhp/liter)
Torque (SAE net)	250 lb.-ft. (340 N•m) @ 3800 rpm
Max. Engine Speed	6800 rpm (electronically limited)
Fuel Requirement	Unleaded mid-grade, 89 octane (R+M)/2 – recommended, unleaded regular, 87 octane (R+M)/2 – acceptable
Oil Capacity	6 qt. (5.7 L) with dry filter
Coolant Capacity	10.3 qt. (9.75 L)
Emission Controls	Dual close-coupled 3-way catalytic converters, quad heated oxygen sensors and internal engine features ¹
Max. Gross Trailer Weight	2000 lbs. (907 kg)
EPA Fuel Economy (MPG City/Hwy.)	RWD – 19/27, AWD – 18/24 (estimated)

(Footnotes)¹ Meets Federal Tier 2, Bin 8 emissions requirements; marketed in California as an ULEV1 (Ultra-Low Emission Vehicle) under cleanest vehicle rules.

ENGINE: 5.7-LITER HEMI® MULTI-DISPLACEMENT V-8**Standard - RT**

Type and Description	90-degree V-type, liquid-cooled
Displacement	345 cu. in. (5654 cu. cm)
Bore x Stroke	3.92 x 3.58 (99.5 x 90.9)
Valve System	Pushrod-operated overhead valves, 16 valves, eight deactivating and eight conventional hydraulic lifters, all with roller followers
Fuel Injection	Sequential, multi-port, electronic, returnless
Construction	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
Compression Ratio	9.6:1
Power (SAE net)	340 bhp (254 kW) @ 5000 rpm, (59.6 bhp/L)
Torque (SAE Net)	390 lb.-ft. (525 N•m) @ 4000 rpm
Max. Engine Speed	5800 rpm (electronically limited)
Fuel Requirement	Unleaded mid-grade, 89 octane (R+M)/2 – recommended, unleaded regular, 87 octane (R+M)/2– acceptable
Oil Capacity	7 qt. (6.6 L)
Coolant Capacity	13.75 qt. (13 L)
Emission Controls	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features ¹
Max. Gross Trailer Weight	2000 lbs. (907 kg) – std. 3800 lbs. (1724 kg) – opt.
EPA Fuel Economy, mpg (City/Hwy)	RWD – 17/25 AWD – 17/23 (estimated)

(Footnotes)¹ Meets Federal Tier 2, Bin 8 emissions requirements; marketed in California as an ULEV1 (Ultra-Low Emission Vehicle) under cleanest vehicle rules.

TRANSMISSION: AUTOMATIC, 4-SPEED OVERDRIVE

Availability	Included with 2.7L and RWD 3.5L engines
Description	Three planetary gear sets, one overrunning clutch, full electronic control, electronically controlled torque converter clutch
Gear Ratios	
1 st	2.84
2 nd	1.57
3 rd	1.00
4 th	0.69
Reverse	2.21
Final Drive Ratio	2.7L – 3.90, 3.5L – 3.64
Overall Top Gear Ratio	2.7L – 2.70, 3.5L – 2.51

TRANSMISSION: AUTOMATIC, 5-SPEED AUTOMATIC

Availability	Std. RT, included with AWD
Description	Adaptive electronic control or AutoStick® driver-interactive manual control and electronically modulated torque converter clutch
Gear Ratios	
1 st	3.59
2 nd	2.19
3 rd	1.41
4 th	1.00
5 th	0.83
Reverse	3.17
Final Drive Ratio	5.7L RWD – 2.82, AWD All – 3.07
Overall Top Gear	5.7L RWD – 2.34, AWD All – 2.55

TRANSFER CASE

Availability	Std. with all-wheel drive
Type	Single-speed constant engagement
Center Differential	Planetary
Torque Split, Front/Rear	38/62

ELECTRICAL SYSTEM

Alternator	SE 140A, SXT and RT – 160A
Battery	H7 Case, 600 CCA, maintenance-free

DIMENSIONS AND CAPACITIES¹

Wheelbase	120.0 (3048)
Track, Front	63.0 (1600)
Track, Rear	63.1 (1603)
Overall Length	197.7 (5021)
Overall Width	74.1 (1881)
Overall Height	58.4 (1481)
Ground Clearance	5.6 (143)
Frontal Area, sq. ft. (sq. m)	25.4 (2.36)
Drag Coefficient	SE – 0.337, SXT rear-wheel drive – 0.346, RT rear-wheel drive – 0.355, SXT and RT AWD – 0.365
Curb Weight, lb. (kg) – Est	SE – 3855 (1750), SXT – 3903 (1772), SXT AWD 4160 (1887), RT – 4142 (1880), RT AWD – 4336 (1967)
Weight Distribution, percent F/R	SE – 51/49, SXT and RT – 52/48
Fuel Tank Capacity, gal. (L)	SE and SXT RWD – 18 (68), SXT AWD and RT – 19 (72)

¹ All dimensions measured at curb weight with standard tires.

ACCOMMODATIONS

Seating Capacity, F/R	2/3
Front	
Headroom	38.4 (983)
Leg Room	41.8 (1061)
Shoulder Room	58.7 (1490)
Hip Room	56.2 (1427)
Seat Travel	Driver – 10.6 (270), Passenger – 8.66 (220)
Recliner Angle Range, deg	Driver – 70, Passenger – 69
SAE Front Volume Index, cubic ft. (cu. m)	55.0 (1.56)
Rear Seat	
Headroom	38.1 (968)
Leg Room	40.2 (1020)
Knee Clearance	4.8 (122)
Shoulder Room	57.6 (1464)
Hip Room	55.5 (1409)

SAE Rear Seat Volume Index, cubic ft. (cu. m)	50.9 (1.44)
SAE Interior Volume, cu. ft. (cu. m)	105.9 (3.00)

Cargo Volume Indexes

Rear Seats Up, cu. ft. (L)	27.2 (770)
Rear Seats Folded, cu. ft. (cu. m)	71.6 (2.03)
EPA Interior Volume Index, cu. ft. (cu. m)	133.1 (3.77)
Liftover Height	29.7 (752)

BODY

Layout	Longitudinal front engine, rear-wheel drive or all-wheel drive
Construction	Unitized steel body

SUSPENSION

Front	Independent SLA with high upper “A” arm, coil spring over gas charged shock absorbers and stabilizer bar – std. All; Lateral and diagonal lower links with dual ball joint knuckle – std. RWD, lower “A” arm – std. AWD
Rear	Five-link independent with coil springs, link-type stabilizer bar, gas-charged shock absorbers and isolated suspension cradle – Std. Nivomat™ self-leveling shock absorbers – Opt.

STEERING

Type	Rack and pinion with hydraulic power assist
Overall Ratio	16.1:1
Turning Diameter (curb-to-curb)	Rear-wheel drive - 38.9 ft. (11.9 m), All-wheel drive – 38.8 ft (11.8 m)
Steering Turns (lock-to-lock)	Rear-wheel drive – 2.75, All-wheel drive – 2.90

TIRES¹

SE and SXT - Standard

Size & Type

P215/65 R17 98T black sidewall
all-season ride

Mfr. & Model

Goodyear Integrity

Revs per Mile (km)

730 (454)

Optional.

Size & Type.

P215/65 R17 98T black sidewall all-
season ride self sealing

Mfr. & Model

Continental CT95 ContiSeal™

Revs per Mile (km)

730 (454)

RT - Standard

Size & Type

P225/60 R18H 99H

Mfr. & Model

all-season touring

Revs per Mile (km)

Continental CH95

735 (457)

Optional

Size & Type

P225/60 R18H 99H all-season
touring self sealing

Mfr. & Model

Continental CH95 ContiSeal™

Revs per Mile (km)

735 (457) 1 Other sizes and brands
may also be used.

SXT and RT AWD - Standard

Size & Type

P225/60 R18H 99H

Mfr. & Model

all-season touring

Revs per Mile (km)

Continental 4 x 4 Contact

735 (457)

Optional

Size and Type

P225/60 R18 99H all-season touring
self sealing

Mfr. and Model

Continental CH95 ContiSeal™

Revs per Mile (km)

735 (457)

1. Other sizes and brands may also be used.

WHEELS

SE - Standard

Type and Material
Size

Stamped steel
17 x 7.0

SXT - Standard

Type and Material
Size

Cast aluminum
17 x 7.0

RT - Standard

Type and Material
Size

Cast aluminum
18 x 7.5

SXT and RT – AWD

Standard
Type and Material
Size

Cast aluminum
18 x 7.5

BRAKES

SE and SXT

Front

Rotor Size and Type
Caliper Size and Type

12.6 x 1.1 (320 x 28) vented
2.36 (60) single-piston sliding with
aluminum housing
254.8 sq. in. (1644 sq. cm)

Swept Area

Rear

Rotor Size and Type
Caliper Size and Type

12.6 x 0.4 (320 x 10) solid
1.65 (42) single-piston sliding with
aluminum housing
260.4 sq. in. (1680 sq. cm)
Std. – SXT, opt. – SE
Std. – SXT, opt. – SE

Swept Area

Four-Wheel Anti-Lock and Traction Control
Electronic Stability Control and Brake Assist
Power Assist Type

Std. SE

8 x 9 (203 x 209) tandem-diaphragm
vacuum booster

Std. SXT, Opt. SE

8 x 9 (203 x 209) active tandem-
diaphragm vacuum booster

SXT AWD and RT

Front

Rotor Size and Type
Caliper Size and Type

13.6 x 1.1 (345 x 28) vented
1.65 (42) dual-piston sliding with
aluminum housing
292 sq. in. (1884 sq. cm)

Swept Area

Rear

Rotor Size and Type

12.6 x 0.87 (320 x 22) vented

Caliper Size and Type

1.65 (42) single-piston sliding with
aluminum housing

Swept Area

260.4 sq. in. (1680 sq. cm)

Four-Wheel Anti-Lock and Traction Control

Std.

Electronic Stability Control and Brake Assist

Std.

Power Assist Type

8 x 9 (203 x 209) tandem-diaphragm
vacuum

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