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Magnum V6**

CHRYSLER 239 (3.9 L) MAGNUM V6



The **Chrysler/ Dodge 239 Magnum** is a 3.9 l (3,906 cc,

239.0 cu.in.) natural aspirated V6 90° four-stroke gasoline engine from Chrysler LA/Magnum-family. This engine was manufactured from 1992 up to 2003.

The Chrysler 239 Magnum features a cast-iron block and two cast-iron heads with a single camshaft (OHV) and two valves per cylinder (12 valves in total). The Chrysler 3.9L Magnum engine is equipped with a



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system with an ignition coil and mechanical distributor.

The compression ratio rating is 9.1:1. Cylinder bore and the piston stroke are 99.3 mm (3.91 in) and 84.0 mm (3.31 in), respectively. It produces from 177 PS (130 kW; 175 HP) at 4,400 rpm to 182 PS (134 kW; 180 HP) at 4,400 rpm of horsepower and from 264 N·m (26.9 kg·m, 194.6 ft·lb) at 3,200 rpm to 305 N·m (31.1 kg·m, 224.8 ft·lb) at 3,200 rpm of maximum torque.

GENERAL INFORMATION

Engine Specifications	
Engine model	Chrysler 3.9 L (239 cu in) Magnum
Layout	Four stroke, V6
Fuel type	Gasoline (petrol)
Production	1992-2003
Displacement	3.9 L, 3,906 cc (239.0 cu in)
Fuel system	1992-1996: Multi Point Fuel Injection 1997-2003:: Sequential Multiport Fuel Injection
Power adder	None
Power output	From 177 PS (130 kW; 175 HP) at 4,400 rpm to 182 PS (134 kW; 180 HP) at 4,400 rpm
Torque output	From 264 N·m (26.9 kg·m, 194.6 ft·lb) at 3,200 rpm to 305 N·m (31.1 kg·m, 224.8 ft·lb) at 3,200 rpm
Firing order	1-6-5-4-3-2
Dimensions (L x W x H):	-

CYLINDER BLOCK

The 239 Magnum engine has a cast-iron block with a



Chrysler 2.7 L V6 (ERR)



Chrysler HEMI 5.7 (EZB)



Chrysler PowerTech 4.7L



Chrysler PowerTech 3.7L

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9.1:1. This motor has aluminum alloy pistons with two compression and one oil control rings, forged steel connecting rods, and nodular iron crankshaft. The crankshaft main journal diameter is 63.5 mm (2.5 in) and the crankpin diameter is 53.0 mm (2.08 in).



Chrysler A588

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Cylinder block		
Cylinder block alloy		Cast-iron
Compression ratio:		9.1:1
Cylinder bore:		99.3 mm (3.91 in)
Piston stroke:		84.0 mm (3.31 in)
Number of piston rings (compression / oil):		2/1
Number of main bearings:		4
Cylinder inner diameter (standard):		99.314-99.365 mm (3.91-3.912 in)
Piston skirt diameter (standard):		-
Piston pin outer diameter:		24.996-25.001 mm (0.9841-0.9843 in)
Piston ring side clearance:	Top	0.038-0.076 mm (0.0015-0.003 in)
	Second	0.038-0.076 mm (0.0015-0.003 in)
	Oil	0.060-0.210 mm (0.0024-0.0083 in)
Piston ring end gap:	Top	0.254-0.508 mm (0.010-0.020 in)
	Second	0.254-0.508 mm (0.010-0.020 in)
	Oil	0.254-1.270 mm (0.010-0.050 in)
Connecting rod small end diameter:		24.940-24.978 mm (0.9819-0.9834 in)
Crankshaft main journal diameter:		63.487-63.513 mm (2.4995-2.5005 in)
Crankpin diameter:		53.950-53.975 mm (2.124-2.125 in)

After securing bearing cap bolts, make sure crankshaft turns smoothly by hand.

Connecting rod bearing bolts

- 61 Nm; 6.0 kg·m; 45 ft·lb

Flywheel fixing bolts

- 75 Nm; 7.5 kg·m; 55 ft·lb

CYLINDER HEAD

The cylinder heads are made of cast-iron. The engine has a single camshaft over-head valves. The camshaft is driven by a single timing chain. The intake valve diameter is 48.665 mm (1.916 in), the duration is 240° the exhaust valve diameter is 41.250 mm (1.624 in), the duration is 248°. The Chrysler 239 Magnum engine is equipped with hydraulic valve tappets.

Cylinder head		
Block head alloy		Cast-iron
Valve Arrangement:		OHV, chain drive
Head surface flatness		–
Valves:		12 (2 valves per cylinder)
Intake valve timing		240°
Exhaust valve timing:		248°
Valve head diameter:	INTAKE	48.665 mm (1.9159 in)
	EXHAUST	41.250 mm (1.624 in)
Valve length:	INTAKE	124.280-125.92 mm (4.8929-4.9575 in)
	EXHAUST	124.64-125.27 mm (4.9071-4.9319 in)
Valve stem	INTAKE	7.899-7.925 mm

Valve spring free length:	49.962 mm (1.967 in)
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Head tightening procedure and torque specs:

- **Step 1:** 68 Nm; 6.8 kg·m; 50 ft·lb
- **Step 2:** 143 Nm; 14.0 kg·m; 105 ft·lb

Cylinder head cover bolts

- 11 Nm; 1.1 kg·m; 8.1 ft·lb

MAINTENANCE DATA

Compression pressure	
Standard	689 kPa (100 psi)
Oil system	
Recommended engine oil	SAE: 10W-30
Oil type API	API: SH or SH/CD
Engine oil capacity (Refill capacity)	With filter change 3.8 L (4.0 US. qt, 3.35 Imp. qt.)
	Without filter change 3.3 L (3.5 US. qt, 2.9 Imp. qt.)
Oil pressure	Idle speed: 41.4 kPa, (6 psi) 3,000 rpm 207-551 kPa, (30-80 psi)
Ignition system	
Spark plug	Champion RC12YC
Spark plug gap	0.9 mm (0.0354 in)
Spark plug tightening torque	41.0 N·m (4.2 kg·m, 30.2 ft·lb)

VEHICLE APPLICATIONS

Model	Years Produced
Dodge Dakota	1992–2003

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3 COMMENTS



Johnny Hansel says:

APRIL 8, 2021 AT 6:08 PM

I appreciate that info I need that information thank you

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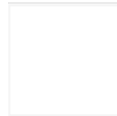


Michael McKinney says:

OCTOBER 8, 2021 AT 12:35 PM

I was looking for the gap between the lifter platform

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 **REPLY****Al Tebeau** says:

AUGUST 22, 2023 AT 5:23 PM

Thank you for the specs!
Just what I needed to rebuild my my "95" 3.9L

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