

# 2004 U.S. R32

## Technical Specifications



**Published:** 12/10/2003  
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### ENGINE

Type	6 cylinder, 15° V, gasoline			
Bore	3.31	in	84.0	mm
Stroke	3.78	in	95.9	mm
Displacement	194.6	in <sup>3</sup>	3,189	cm <sup>3</sup>
Compression Ratio	11.3:1			
Horsepower (SAE) @ rpm	240 @ 6,250 (177 kW @ 6,250)			
Maximum torque, lbs - ft @ rpm	236 @ 2,800-3,200 (320 Nm @ 2,800-3,200)			
Fuel Requirement	Premium unleaded recommended for maximum performance			
Firing Order	1-5-3-6-2-4			

### ENGINE DESIGN

Arrangement	Front mounted, transverse			
Cylinder Block	Cast iron			
Crank Shaft	Forged steel, seven main bearings			
Cylinder Head	Aluminum alloy, cross flow			
Valve Train	Dual overhead camshaft, chain driven, four valves per cylinder, maintenance free hydraulic lifters, variable valve timing			
Cooling System	Water cooled, water pump, cross flow radiator, thermostatically controlled electric 3-speed radiator fan			
Lubrication	Rotary gear pump, oil cooler			
Fuel / Air Supply	Sequential multi-point fuel injection (Motronic), variable intake manifold, variable intake and exhaust cam timing			
Emissions	LEV I California Emissions Concept, Bin 9 EPA Federal Emissions Concept, OBD II, ORVR (onboard refueling vapor recovery), 3-way catalytic converter with oxygen sensor, secondary air injection pump			

### ELECTRICAL SYSTEM

Alternator - V/A	14/120			
Battery - V/Ah	12/70			
Ignition	Digital electronic with dual knock sensor			

### DRIVETRAIN

Drivetrain	4MOTION™ permanent all-wheel drive system (Haldex)			
		Manual	Automatic	
Transmission Gear Ratios:1	1st	3.36	--	
	2nd	2.09	--	
	3rd	1.47	--	
	4th	1.10	--	
	5th	0.86	--	
	6th	0.72	--	
	Reverse	3.08	--	
Final I	4.24	--		

### CAPACITIES

Engine Oil (with filter)	5.8	qt	5.5	L
Fuel Tank	16.4	gal	62.0	L
Cooling System	11.6	qt	11.0	L
Wiper Fluid	3.2	qt	3.0	L

### STEERING

Type	Rack and pinion, power assisted			
Turns (lock to lock)	3.04			
Turning Circle (curb to curb)	35.8	ft	10.9	m
Ratio	15.6 : 1			

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### INTERIOR VOLUME - SAE

EPA Class	Compact			
Seating Capacity	Five			
Passenger Volume	85	ft <sup>3</sup>	2.4	m <sup>3</sup>
Cargo Volume	14	ft <sup>3</sup>	0.4	m <sup>3</sup>
Cargo Volume with rear seat folded	38.8	ft <sup>3</sup>	1.1	m <sup>3</sup>
	<b>Front</b>		<b>Rear</b>	
Volume	48.2	ft <sup>3</sup>	1.40	m <sup>3</sup>
Head Room	37.4	in	949	mm
Shoulder Room	53.7	in	1,365	mm
Leg Room	41.5	in	1,055	mm

### BODY, CHASSIS AND SUSPENSION

Type	Unitized construction, bolt-on front fenders
Front Suspension	Independent McPherson struts, coil springs, telescopic shock absorbers, stabilizer bar
Rear Suspension	Fully independent multi-link rear suspension with dual-link trailing arms, coil springs, telescopic shock absorbers, stabilizer bar
Service Brakes	Power assisted, dual circuit, vented 334 x 34 mm front discs and vented 256 x 22 mm rear discs
Anti Lock Braking System	MK 60, with Electronic Stabilization Program (ESP) with Brake Assist all four wheels
Parking Brake	Mechanical, effective on rear wheels
Wheels/Tires	7.5J X 18" alloy wheels 225/40 R18 Z, summer performance tires
Drag Coefficient	.31

### DIMENSIONS

Wheelbase	99.1	in	2,518	mm
Front Track	59.5	in	1,511	mm
Rear Track	58.7	in	1,490	mm
Length	164.4	in	4,175	mm
Width	68.3	in	1,735	mm
Height	56.1	in	1,424	mm
Ground Clearance	4.2	in	107	mm

### WEIGHTS

	Manual		Automatic	
Curb Weight	3,409	lbs	1,546	kg
	Front	2,011	lbs	912
	Rear	1,398	lbs	634
Payload	1,012	lbs	459	kg

### FUEL CONSUMPTION

	Manual	Automatic
City mpg	19	--
Highway mpg	26	--
City L/100km	NA	--
Highway L/100km	NA	--

### PERFORMANCE

	Manual	Automatic
0-60 mph	6.4	seconds
Top Speed	130	mph