

2020 JEEP® GRAND CHEROKEE / GRAND CHEROKEE SRT / GRAND CHEROKEE TRACKHAWK Specifications

Specifications are based on the latest product information available at the time of publication.

All dimensions are in inches (millimeters) unless otherwise noted.

All dimensions measured at curb weight with standard tires and wheels.

GENERAL INFORMATION

Vehicle Type	Four-door sport-utility vehicle
Assembly Plant	Jefferson Avenue North Assembly Plant, Detroit, Michigan
EPA Vehicle Class	Multipurpose vehicle
Introduction Date	Spring 1992 as a 1993 model

BODY AND CHASSIS

Layout	Front engine, rear- or four-wheel drive
Construction	Steel uniframe

ENGINE: 3.6-LITER PENTASTAR V-6

Availability	Standard on Laredo, Limited, Trailhawk, Overland and Summit
Type and Description	60-degree V-type, liquid-cooled
Displacement	220 cu. in. (3,604 cu. cm)
Bore x Stroke	3.77 x 3.26 (96 x 83)
Valve System	Chain-driven DOHC, 24 valves and hydraulic end-pivot roller rockers
Fuel Injection	Sequential, multiport, electronic, returnless
Construction	Aluminum deep-skirt block, aluminum alloy heads
Compression Ratio	10.2:1
Power (SAE J2723)	Up to 295 hp @ 6,400 rpm

Torque (SAE J2723)	260 lb.-ft. @ 4,000 rpm
Max. Engine Speed	6,400 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R + M)/2
Oil Capacity	6.0 quarts (5.7 liters)
Coolant Capacity	14.0 quarts (13.25 liters)
Emission Controls	Dual three-way catalytic converters, heated oxygen sensors and internal engine features
Max. Gross Trailer Weight	6,200 lbs. – 2WD and 4WD
EPA Fuel Economy mpg (city/hwy/combined)	19/26/21 – 2WD
	18/25/21 – 4WD
Assembly Plant	Trenton South Engine Plant, Trenton, Michigan

ENGINE: 5.7-LITER V-8

Availability	Optional – Limited, Trailhawk, Overland and Summit (4x4 models only)
Type and Description	90-degree V-type, liquid-cooled
Displacement	345 cu. in. (5,654 cu. cm)
Bore x Stroke	3.92 x 3.58 (99.5 x 90.9)
Valve System	Variable-valve timing (VVT), 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	10.5:1
Power (SAE J2723)	360 hp (268 kW) @ 5,150 rpm
Torque (SAE J2723)	390 lb.-ft. (520 N•m) @ 4,250 rpm
Max. Engine Speed	5,800 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 quarts (6.6 liters)
Coolant Capacity	14.5 quarts (13.72 liters)
Emission Controls	Dual close-coupled three-way catalytic converters, quad-heated-oxygen sensors and internal engine features ^(a)
Max. Gross Trailer Weight	7,200 lbs. (4x4)
EPA Fuel Economy mpg (city/hwy/combined)	14/22/17 – 4WD
Assembly Plant	Saltillo North Engine Plant, Saltillo, Mexico

(a) Meets Calif. LEV II+ evaporative emission requirements in CA, NY, MA, ME, VT and Federal Bin 5+ Tier II emissions and Clean Fuel Fleet Certification (CCF).

ENGINE: 6.4-LITER V-8

Availability	Standard – SRT
Type and Description	90-degree V-type, liquid-cooled
Displacement, cu. in. (cu. cm.)	392 (6,417)
Bore x Stroke	4.09 x 3.72 (103.9 x 94.5)
Valve System	Pushrod-operated overhead valves, 16 valves with sodium-filled exhaust valves and hollow stem intake valves, 16 conventional hydraulic lifters, all with roller tips
Fuel Injection	Sequential, multi-port, electronic, returnless; features Fuel Saver mode
Construction	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
Compression Ratio	10.9:1
Power (SAE J2723)	475 hp (354 kW) @ 6,000 rpm
Torque (SAE J2723)	470 lb.-ft. (637 N·m) @ 4,300 rpm
Max. Engine Speed	6,400 rpm (electronically limited)
Fuel Requirement	Premium 91 octane (R+M)/2 – recommended
Oil Capacity, qt. (liter)	7 (6.6)

Coolant Capacity, qt. (liter)	14 (13.25)
Factory Oil Fill	0W-40 Pennzoil Ultra synthetic
Emission Controls	Dual close-coupled three-way catalytic converters, quad-heated oxygen sensors and internal engine features ^(b)
Exhaust Type	Dual exhaust with dual 4-in. oval black chrome tips
EPA Fuel Economy mpg (city/hwy/combined)	13/19/15
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

(b) Meets Federal Tier 2, Bin 5 emissions requirements; marketed in California as an LEV II (Low Emission Vehicle) under cleanest vehicle rules.

ENGINE: 6.2-LITER SUPERCHARGED V-8

Availability	Standard - Trackhawk
Type and Description	90-degree V-type, liquid-cooled
Displacement	376 cu. in. (6,166 cu. cm)
Bore x Stroke	4.09 x 3.58 (103.9 x 90.9)
Valve System	Pushrod-operated overhead valves, 16 valves with sodium-filled exhaust valves and hollow stem intake valves, 16 conventional hydraulic lifters, all with roller tips
Fuel Injection	Sequential, multiport, electronic, returnless
Construction	Deep-skirt cast-iron block with cross-bolted main bearing caps, unique aluminum alloy heads with hemispherical combustion chambers
Compression Ratio	9.5:1
Power (SAE J2723)	707 hp (527 kW) @ 6,000 rpm
Torque (SAE J2723)	645 lb.-ft. (875 N•m) torque @ 4,800 rpm
Max. Engine Speed	6,200 rpm (electronically limited)
Fuel Requirement	Premium 91 octane (R+M)/2 – recommended
Oil Capacity	8.3 quarts (7.9 liters)
Factory Oil Fill	0W-40 Pennzoil Ultra synthetic
Coolant Capacity	14.7 quarts (13.9 liters)

Emission Controls	Dual close-coupled three-way catalytic converters heated wide-range upstream and switching downstream O ₂ sensors and internal engine features. ^(c)
Exhaust Type	Dual 2.75-in. straight-thru exhaust system with quad 4-in. Black Chrome round tips
EPA Fuel Economy mpg (city/hwy/combined)	11/17/13
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

(c) Meets Federal Tier 2 Bin 5 emission requirements and ULEV II requirements in California, Massachusetts, New York, Maine, Vermont, Connecticut, Pennsylvania, Rhode Island, New Jersey, Oregon and Washington.

TRANSMISSION: TORQUEFLITE 8HP70 AUTOMATIC, EIGHT-SPEED OVERDRIVE

Availability	Standard – 3.6-liter, 5.7-liter and 6.4-liter equipped models
Description	Driver-interactive manual control and electronically modulated torque converter clutch with Eco mode
Gear Ratios	
1st	4.71
2nd	3.14
3rd	2.11
4th	1.67
5th	1.29
6th	1.00
7th	0.84
8th	0.67
Reverse	3.30

TRANSMISSION: TORQUEFLITE 8HP95 AUTOMATIC, EIGHT-SPEED OVERDRIVE

Availability	Standard – Trackhawk
Description	Adaptive electronic control with driver-interactive manual control via electronically modulated torque converter clutch with seven available drive modes, including Auto, Sport, Track, Snow, Tow, Eco and Valet

Gear Ratios	
1st	4.71
2nd	3.14
3rd	2.11
4th	1.67
5th	1.29
6th	1.00
7th	0.84
8th	0.67
Reverse	3.30

TRANSFER CASE: MP 3010

Availability	Optional with 3.6-liter V-6 engine
Type	Single-speed
Operating Mode	Full-time 4WD
Low Range Ratio	None
Torque Split, Front/Rear	50/50

TRANSFER CASE: MP 3010

Availability	Standard – 6.4-liter V-8 engine
Type	Single-speed, electronic proportioning
Operating Mode	Full-time 4WD
Torque Split, Front/Rear	Variable - 40/60 Auto, 50/50 Snow and Tow, 35/65 Sport and 30/70 Track

TRANSFER CASE: MP 3022

Availability	Optional – 3.6-liter V-6 and 5.7-liter V-8 engines
Type	Two-speed electronically shifted
Operating Modes	4x4 Low (Lock), Neutral; full-time active 4x4
Low Range Ratio	2.72
Torque Split, Front/Rear	Variable

TRANSFER CASE: MP 3015C

Availability	Standard – supercharged 6.2-liter V-8 engine
Type	Single-speed, electronic proportioning
Operating Mode	Full-time four-wheel drive
Torque Split, Front/Rear	Variable - 40/60 Auto, 50/50 Snow, 60/40 Tow, 35/65 Sport and 30/70 Track

AXLES

Front

Differential Type	Conventional
Availability	Standard on 4x4 models
Ring Gear Diameter	7.7 (195)
Axle Ratios	3.45:1 – 3.6-liter V-6
	3.09:1 – 5.7-liter V-8
	3:70:1 – 6.4-liter V-8 and 6.2-liter V-8

Rear

Differential Type	Conventional (optional Electronic Limited Slip on 5.7-liter V-8, Standard on 6.4-liter V-8)
Availability	Standard on all engines
Ring Gear Diameter (in/mm)	7.7 (195) – V-6 4x4
	9.1 (230) – V-6 4x2, 5.7-liter V-8, 6.4-liter V-8 and 6.2-liter V-8

Axle Ratios	3.27:1 – V-6 4x2
	3.45:1 – V-6
	3.09:1 – 5.7-liter V-8
	3:70:1 – 6.4-liter V-8 and 6.2-liter V-8

ELECTRICAL SYSTEM

Alternator	160-amp; 180-amp or 220-amp depending on model
Battery	Maintenance-free
	H6 650 CCA + Auxiliary 200 CCA on engine start-stop (ESS)
	H7 700 CCA on V-8, (not equipped with ESS)

SUSPENSION

Front	Short- and long-arm independent (SLA), coil springs, gas-charged, twin-tube coilover shock absorbers, steel upper- and aluminum lower-control arms (“A” arms), aluminum knuckle, hollow stabilizer bar
Front – SRT and Trackhawk	Short- and long-arm independent (SLA) with aluminum lower control arm, aluminum knuckle, aluminum clevis, coil springs, Bilstein adaptive damping suspension (ADS), upper- and lower-control arms (“A” arms), hollow stabilizer bar
Rear	Multi-link rear suspension, coil spring, twin tube shocks (including load leveling for towing), aluminum lower control arm, independent upper links (tension and camber) plus a separate toe link, hollow stabilizer bar
Rear – SRT and Trackhawk	Multi-link rear suspension, coil spring, Bilstein adaptive damping suspension (ADS), aluminum lower control arm, independent upper links (tension and camber) plus a separate toe link, hollow stabilizer bar

STEERING

Type	Electric rack-and-pinion steering, SRT-tuned on SRT model
Overall Ratio	17.9:1 (V-6 4x2); 16.5:1 on SRT and Trackhawk; 16.7:1 (all other vehicles)
Turning Diameter (curb-to-curb) (ft./m)	37.1 (11.3); 38.0 (11.6) for SRT and Trackhawk
Steering Turns (lock-to-lock)	3.4 (V-6 4x2), 3.2 (all other vehicles)

BRAKES

Type	Power, single-rate, tandem diaphragm vacuum, anti-lock brake system (ABS)
Availability	Standard
Front	
Rotor size and type	13.0 x 1.3 (330 x 32) vented disc - V-6
	13.8 x 1.3 (350 x 32) - 5.7-liter V-8
	15.0 x 1.34 (380 x 34) vented disc with Brembo six-piston caliper and ABS - SRT 6.4-liter V-8
	15.0 x 1.34 (380 x 34) two-piece aluminum performance rotor hat, directionally slotted with Brembo six-piston caliper and ABS - available on SRT model
	15.75 x 1.42 (400 x 36) two-piece aluminum performance rotor hat, directionally slotted with Brembo six-piston caliper and ABS - standard on Trackhawk
Caliper size and type	1.89 (48) two-piston pin-slider caliper
	6 x 40 six-piston fixed caliper on SRT and Trackhawk
Swept area, (sq. in. / sq. cm)	282 (1,820)
	413 (2,666) – SRT
	498.6 (3,217) – Trackhawk
Rear	
Rotor size and type	13.0 x 0.55 (330 x 14) disc - V-6
	13.0 x 0.87 (330 x 22) vented disc - V-8
	13.78 x 1.10 (350 x 28) disc with Brembo four-piston caliper and single-channel ABS - SRT
	13.78 x 1.10 (350 x 28) Performance disc, directionally slotted with Brembo four-piston caliper and single-channel ABS on Trackhawk and available on SRT
Caliper size and type	1.89 (48) single-piston pin-slider caliper
	4 x 34 four piston fixed caliper on SRT and Trackhawk
Swept area, (sq. in. / sq. cm)	257 (1,658)
	316 (2,039) – SRT and Trackhawk

DIMENSIONS AND CAPACITIES

Wheelbase	114.7 (2,914)
Track, Front	63.9 (1,623)
	65.7 (1,636) – SRT and Trackhawk
Track, Rear	64.1 (1,627)
	64.8 (1,645) – SRT and Trackhawk
Overall Length	189.8 (4,822)
Overall Width (Width at Mirrors)	84.8 (2,154)
Body Width	76.5 (1,943)
Overall Height (at Roof Rail / at Antenna)	69.3 (1,761) / 70.0 (1,779)
	67.9/70.0 (1,724/1,778) – SRT and Trackhawk
Load Floor Height	32.4 (822) – standard suspension
	32.6 (829) – SRT and Trackhawk
	31.8 (807) – air suspension
Sill Step Height	20.5 (520) – standard suspension
	20.0 (508) – air suspension
	20.7 (527) – SRT
Ground Clearance (with P265/60R18 Tire and 3.6-liter engine)	8.6 (218) – standard suspension
	10.8 (264) – air suspension (Pos#2)
Ground Clearance - SRT and Trackhawk	8.1 (205.7)
Chassis (Fuel Tank)	9.6 (243) – standard suspension
	10.7 (271) – air suspension (Pos#2)
	9 (230) – SRT and Trackhawk

Front Axle	9.3 (236) – standard suspension
	9.7 (246) – air suspension (Pos#2)
	8.97 (227.8) – SRT and Trackhawk
Rear Axle	10.0 (253) – standard suspension
	11.1 (282) – air suspension (Pos#2)
	8.99 (228.3) – SRT and Trackhawk
Approach Angle (degrees)	26.2 – standard suspension
	36.1 – air suspension (Pos#2, air-dam off)
	29.8 (Off-road II with air dam on)
	18 – SRT and Trackhawk
Ramp Breakover Angle (degrees)	19.0 – standard suspension
	22.8 – air suspension (Pos#2)
	18.4 – SRT and Trackhawk
Departure Angle (degrees)	24.0 – standard suspension
	27.1 – air suspension (Pos#2)
	23.1 – SRT and Trackhawk
Frontal Area sq. ft. (sq. m)	31.0 (2.88)
	31.5 (2.93) – SRT and Trackhawk
Drag Coefficient (Cd)	0.371
	0.37 – SRT and Trackhawk
Aero CdA	11.5 (Cd x cross-sectional area)
	11.75 (Cd x cross-sectional area) – SRT and Trackhawk
Fuel Tank Capacity, (gallons / (liter)	24.6 (93.1)

ACCOMMODATIONS

Seating Capacity (front/rear)	2/3
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SAE Total Interior Passenger Volume, (cu. ft. / cu. m)	105.4 (2.98)
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Front

Headroom	39.9 (1,013)
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Legroom	40.3 (1,025)
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Shoulder room	58.7 (1,491)
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Hip room	57.0 (1,449)
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Seat travel	11.0 (280)
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EPA front volume index (cu. ft. / cu. m)	54.6 (1.55)
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Rear

Headroom	39.2 (995)
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Legroom	38.6 (981)
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Knee clearance	4.3 (110)
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Shoulder room	58.0 (1,474)
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Hip room	56.2 (1,428)
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EPA rear seat volume index (cu. ft. / cu. m)	50.8 (1.4)
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Maximum cargo volume (cu. ft. / cu. m)	68.3 (1.93)
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Behind second-row seats (cu. ft. / cu. m)	36.3 (1.03)
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Total passenger plus cargo volume (cu. ft. / cu. m)	140.5 (3.98)
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WEIGHTS (ESTIMATES)

	Model	Engine	GVWR ^(a) lbs. (kg)	Curb Weight ^(b) lbs. (kg)	Payload ^(c) lbs. (kg)
2WD	Laredo	3.6-liter	6,500 (2,948)	4,513 (2,047)	1,180 (535)
	Limited	3.6-liter	6,500 (2,948)	4,576 (2,075)	1,260 (570)
	Overland	3.6-liter	6,500 (2,948)	4,727 (2,144)	1,150 (520)
	Summit	3.6-liter	6,500 (2,948)	4,754 (2,156)	1,120 (510)
4WD	Laredo	3.6-liter	6,500 (2,948)	4,625 (2,098)	1,370 (620)
	Limited	3.6-liter	6,500 (2,948)	4,746 (2,153)	1,380 (625)
		5.7-liter	6,800 (3,084)	5,010 (2,273)	1,410 (640)
	Trailhawk	3.6-liter	6,500 (2,948)	5,004 (2,270)	1,130 (515)
		5.7-liter	6,800 (3,084)	5,253 (2,383)	1,130 (515)
	Overland	3.6-liter	6,500 (2,948)	4,965 (2,252)	1,280 (580)
		5.7-liter	6,800 (3,084)	5,185 (2,352)	1,220 (555)
	Summit	3.6-liter	6,500 (2,948)	5,000 (2,268)	1,160 (525)
5.7-liter		6,800 (3,084)	5,258 (2,385)	1,160 (525)	
SRT	6.4-liter	6,500 (2,948)	5,195 (2,356)	1,350 (612)	
Trackhawk	6.2-liter	6,600 (2,994)	5,356 (2,429)	1,350 (612)	

(a) Gross Vehicle Weight Rating.

(b) Curb weight includes standard equipment and full quantities of fuel, lubricant and coolant.

(c) Payload is the maximum allowable weight of driver, passengers, cargo, and options, rounded to the nearest 10 lbs. (5kg).

WEIGHT DISTRIBUTION, F/R

	Model	Engine	Distribution
2WD	Laredo	3.6-liter	52/48
	Limited	3.6-liter	51/49
	Overland	3.6-liter	51/49
	Summit	3.6-liter	50/50
4WD	Laredo	3.6-liter	53/47
	Limited	3.6-liter 5.7-liter	52/48 54/46
	Trailhawk	3.6-liter	52/48
		5.7-liter	54/46
	Overland	3.6-liter	52/48
		5.7-liter	53/47
	Summit	3.6-liter	51/49
		5.7-liter	53/47
SRT	6.4-liter	55/45	
Trackhawk	6.2-liter	55/45	

WHEELS

Availability	Standard on Laredo
Type and material	Painted machine cast-aluminum, five-spoke
Size (inches)	17 x 8
Availability	Optional on Laredo E and Standard on Limited, available on Overland
Type and material	Painted machine-cast-aluminum, 10-spoke
Size (inches)	18 x 8

Availability	Standard on Trailhawk
Type and material	Polished machine cast-aluminum with low gloss black painted pockets
Size (inches)	18x8
Availability	Standard on Overland, available on Limited
Type and material	Polished Aluminum with Technical Gray Painted Pockets
Size (inches)	20 x 8
Availability	Standard on Summit
Type and material	Polished machined-cast-aluminum with chrome finish
Size (inches)	20 x 8
Availability	Optional on Summit
Type and material	Polished machined-cast-aluminum with Platinum finish
Size (inches)	20 x 8
Availability	Standard on SRT
Type and material	Forged aluminum, polished, Satin Carbon split five-spoke
Size (inches)	20 x 10
Availability	Optional on SRT
Type and material	Forged aluminum, Black Satin Aluminum, split five-spoke
Size (inches)	20 x 10

Availability	Standard – Trackhawk
Type and material	Lightweight forged aluminum, Titanium II finish
Size (inches)	20 x 10

Availability	Optional – Trackhawk
Type and material	Lightweight forged aluminum, Titanium II finish
Size (inches)	20 x 10

TIRES

Availability	Standard – Laredo
Size and type	P245/70R17
Mfr. and model	Goodyear Fortera HL Black Sidewall All-Season
Revs per mile	681

Availability	Standard – Limited; Optional – Laredo
Size and type	265/60R18
Mfr. and model	Michelin Premier LTX Black Sidewall All-Season
Revs per mile	686

Availability	Standard on Trailhawk
Size and type	265/60R18
Mfr. And model	Goodyear All-Terrain Adventure with Kevlar reinforcement
Revs per mile	687

Availability	Standard – Overland; Optional – Limited
Size and type	265/50R20
Mfr. and model	Bridgestone Ecopia H/L 422 Plus Black Sidewall All-Season
Revs per mile	684
Availability	Optional – Overland; Standard - Summit
Size and type	265/50R20
Mfr. and model	Pirelli Scorpion Verde Black Sidewall All-Season
Revs per mile	674
Availability	Packaged with Off-road Adventure II (AWY)
Size and type	265/60R18
Mfr. and model	Goodyear Wrangler All-Terrain Adventure with Kevlar Black Sidewall
Revs per mile	685
Availability	Standard – SRT
Size and type	P295/45ZR20
Mfr. and model	Pirelli Scorpion Verde – All-season Performance (run flat)
Revs per mile	682
Availability	Optional – SRT
Size and type	P295/45ZR20
Mfr. and model	Pirelli P-Zero – Three-season (run flat)
Revs per mile	685

Availability	Standard – Trackhawk
Size and type	P295/45ZR20
Mfr. and model	Pirelli Scorpion Verde – All-season Performance (run flat)
Revs per mile	682
Availability	Optional – Trackhawk
Size and type	P295/45ZR20
Mfr. and model	Pirelli P-Zero – Three-season (run flat)
Revs per mile	685
Parking Brake Type	Drum-in-hat
Four-wheel Anti-lock Brakes	Standard
Electronic Stability Control	Standard
All-speed Traction Control	Standard
Brake Assist	Standard

TRAILER TOWING

	Engine	Axle Ratio	Maximum Trailer Weight lbs. (kg)
2WD	3.6-liter V-6	3.27	6,200 (2,818)
4WD	3.6-liter V-6	3.45	6,200 (2,818)
	5.7-liter V-8	3.09	7,200 (3,300)
	6.4-liter V-8	3.70	7,200 (3,266)
	6.2-liter V-8	3.70	7,200 (3,266)

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