

AMA Specifications – Passenger Car

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MANUFACTURER OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION	CAR NAME 4-4-2 SUPPLEMENT **
MAILING ADDRESS Lansing, Michigan	MODEL YEAR 1965
	ISSUED: Nov. 16, 1964 REVISED (•)

NOTES:

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.

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BODY—TYPES AND STYLE NAMES—

Body type, number of passenger & style names; use manufacturer's code for series & body style.

- 3427 Sports Coupe
- 3827 Cutlass Coupe
- 3837 Cutlass Hardtop Coupe
- 3867 Cutlass Convertible Coupe

4-4-2 option supplement to 1965 F-85 AMA Specifications.

** All items identical to F-85 V-8 except where noted.

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	
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Wheelbase (L101)	23	
Tread	Front (W101)	22
	Rear (W102)	22
Maximum Overall Dimensions	Length (L103)	23
	Width (W103)	22
	Height (H101)	24
Transmission— (Specify trade name – opt., not available)	Manual	15
	Overdrive	16
	Automatic	16
Axle ratio	Manual	17 3.55:1
	Overdrive	17 N.A.
	Automatic	17 3.23:1
Tire size	18	7.75 x 14
Engine	Type, no. cyl., valve arr.	2
	Fuel system (Carb., other)	8
	Bore and stroke	2 4.000 x 3.975
	Piston displ., cu.in.	2 400
	Std. compression ratio	2 10.25:1
	Max. bhp at engine rpm	2 345 @ 4800
	Max. torque at rpm	2 440 @ 3200

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MODEL _____

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° OHV - V-8
Bore and stroke (nominal)		4.000 x 3.975
Piston displacement, c.u. in.		400
Bore spacing (C/L to C/L)		4.625
No. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Compres. ratio (nominal)		10.25:1
Cylinder Head Material		Cast Iron
Cylinder Block Material		Cast Iron
Cylinder Sleeve—Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	One
Engine installation angle		4°
Taxable horsepower	Dia. ² x No. Cyl. 2.5	51
Published max. bhp* @ eng. RPM		345 @ 4800
Published max. torque* (lb. ft. @ RPM)		440 @ 3200
Recommended fuel regular - premium		Premium
Idle speed (spec. neutral or drive)	Manual	600 N
	Automatic	550 in Dr. or 600 in Dr. W/A/C

ENGINE—PISTONS

Material		Aluminum Alloy	
Description and finish		Autothermic, cam grind, tin plate, steel strut	
Weight (piston only) oz.			
Clearance (limits)	Top land	.0115 - .022	
	Skirt	Top	.0005 - .0020
		Bottom	.0005 - .0010
Ring groove depth	No. 1 ring	.208 - .218	
	No. 2 ring	.208 - .218	
	No. 3 ring	.195 - .205	
	No. 4 ring		

*Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

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ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, type, coating, etc.	Cast Iron-Upper Ring-Chrome Plated O.D. Taper Face Garphotox Lower Ring: Taper Face
	Width	#1 .0775 - .0780 #2 .0770 - .0780
	Gap	.013 - .023
Oil	Description - material, type, coating, etc.	Two Rails - Spring Steel Chrome Plated Spacer: Cold Roll Spacer Steel
	Width	Rails: .0235 - .0252 Spacer: .137 - .134
	Gap	Rails: .015 - .055 Spacer: Ends butt together
Expanders		None

ENGINE—PISTON PINS

Material	Steel SAE #1019		
Length	3.126		
Diameter	.9803 - .9807		
Type	Locked in rod, in piston, floating, etc.	Pressed in Rod	
	Bushing	In rod or piston	None
		Material	
Clearance	In piston	.0003 - .0005	
	In rod	.0008 - .0016 Press	
Direction & amount offset in piston		.060 to R.H. of Cylinder Bore Centerline	

ENGINE—CONNECTING RODS

Material	SAE #1140 Steel	
Weight (oz.)	31.08	
Length (center to center)	6.996 - 7.000	
Bearing	Material & Type	Moraine 400 (GM 3889M Aluminum) Steel Backed
	Overall length	.821 - .831
	Clearance (limits)	.0005 - .0026
	End play	(.004 - .009) Preferred .002 - .013 2 Rods per Crankpin

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ENGINE—CRANKSHAFT

Material		A.I.S.I. #1049 Modified	
Vibration damper type		Tuned Rubber	
End thrust taken by bearing (No.)		Three	
Crankshaft end play		.004 - .008	
Main bearing	Material & type	Moraine 400 (G.M. 3889-M Aluminum) Steel Backed	
	Clearance	1, 2, 3, & 4 .0005 - .0021 #5 .0020 - .0034	
	Journal dia. and bearing overall length	No. 1	3.00 x .975
		No. 2	3.00 x .975
		No. 3	3.00 x 1.194
		No. 4	3.00 x .975
		No. 5	3.00 x 1.624
		No. 6	
No. 7			
Dir. & amt. cyl. offset			
Crankpin journal diameter		2.4988 - 2.5003	

ENGINE—CAMSHAFT

Location		Center	
Material		GM 120 M Alloy Cast Iron	
Bearings	Material	Steel Backed Babbitt GM 4195 or CGB#F-11	
	Number	5	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	GM 85M, Sintered Iron ASTMB-310-56T SAE 1118, 1140, 1141, 1146	
	Camshaft gear or sprocket material	Diecast Aluminum SAE #308 - #101 Nylon Teeth Optional Cast Iron	
	Timing chain	No. of links	48
		Width	.875 Morse
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.6:1
Operating tappet clearance (indicate hot or cold)	Intake	None
	Exhaust	None
Timing marks on flywheel, damper, other		Camshaft Sprocket

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	21°	
		Closes (°ABC)	77°	
		Duration - deg.	278°	
	Exhaust	Opens (°BBC)	71°	
		Closes (°ATC)	31°	
		Duration - deg.	282°	
Valve opening overlap		52°		
Intake	Material		SAE #1041 SAE #1047 Steel	
	Overall length		4.677	
	Actual overall head dia.		2.000 - 1.990	
	Angle of seat & face		45° & 46°	
	Seat insert material		None	
	Stem diameter		.3432 - .3425	
	Stem to guide clearance		.0010 - .0027	
	Lift (@ zero lash)		.431	
	Outer spring press. and length	Valve closed (lb. @ in.)	76 - 84 - 1.670	
		Valve open (lb. @ in.)	180 - 194 - 1.270	
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper	
		Valve open (lb. @ in.)		
	Exhaust	Material		GM #N82152 Steel
		Overall length		4.665
Actual overall head dia.		1.629 - 1.619		
Angle of seat & face		45° & 46°		
Seat insert material		None		
Stem diameter		.3427 - .3420		
Stem to guide clearance		.0015 - .0032		
Lift (@ zero lash)		.433		
Outer spring press. and length		Valve closed (lb. @ in.)	76 - 84 - 1.670	
		Valve open (lb. @ in.)	180 - 194 - 1.270	
Inner spring press. and length	Valve closed (lb. @ in.)	Damper		
	Valve open (lb. @ in.)			

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Pressure
	Cylinder walls	Pressure

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	30-45 @ 50 MPH
Oil pressure sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Complete
Capacity of crankcase, less filter-refill (qt.)	4
Oil grade recommended (SAE viscosity and temperature range)	Above 32° F - SAE 10W30, SAE 20W Below 32° F - SAE 10W30, SAE 10W Below 0° F - SAE 5W20, SAE 5W
Engine Service Requirement (MM, MS, etc.)	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two Straight Through Muffler and Resonator
Exhaust pipe dia. (O.D. & wall thickness) Main	2.25 x .076
Tail pipe diameter (O.D. & wall thickness)	.048 x 2.00

ENGINE—CRANKCASE VENTILATION SYSTEM

	Standard	Positive Crankcase Ventilation
	Optional	None
Control unit	Make and model	AC Dual Valve
	Location	Valve Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum and Carburetor Air
	Control method (variable orifice, fixed orifice, other)	Fixed Orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake Manifold & Air Cleaner
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap
	Flame arrestor (screen, check valve, other)	Screen

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ENGINE—FUEL SYSTEM

(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor	
Fuel Tank	Capacity (gals.)	20	
	Filler location	Behind License Plate Rear Bumper	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Right Front on Block	
	Pressure range	7 3/4 - 9 PSI	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Sintered Bronze & Saran Type	
	Locations	Carburetor & Fuel Tank	
Carburetor	Choke type	Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air clnr. type	Standard	Paper
		Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
4-4-2	400	Synchromesh Jetaway	Rochester	4GC	1	Prim. 1.56 Sec. 1.69

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		15 PSI	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at (°F)	180°	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm	22	
	Number of pumps	1	
	Drive (V-belt, other)	V-Belt	
Bearing type		Ball	
By-pass recirculation type (internal, external)		External	
Radiator core type (cellular, tube and fin, other)		Tube & Center	
Cooling system capacity	With heater (qt.)	16.9	
	Without heater (qt.)	16.2	
	Opt. equipment-specify (qt.)	19.3	
Water jackets full length of cylinder (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	1 Molded
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	1 Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	1 Molded
		Inside diameter	.7
Fan	Number of blades & Spacing		4 @ 76°
	Diameter		18.00
	Ratio-fan to crankshaft rev.		.8486
	Fan cutout type		Clutch A/C Only
	Bearing type		Ball
*Drive belts (indicate belt used by letter)	Fan		50.82 Std. (A) 49.62 A/C (B)
	Generator		Same as above
	Water Pump		Same as above
	Power Steering		61.70 Std. (C) 63.74 A/C (D)
	Air Conditioning		61.00 F

	ALL	(A)	(B)	(C)	(D)	(E)
* Drive Belt Dimensions	36°					
Angle of V		19.41	18.81	24.85	25.87	24.50
Nominal length (SAE)	38					
Width						

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	1980568 Delco Remy		
	Voltage Rtg. & Total Plates	12V-77 Plates		
	SAE Designation & Amp Hr. Rtg	25TA - 70 Amp Hr.		
	Location	Engine Compartment - Front L.H. Side		
	Terminal grounded	Negative		
Generator	Make	Delco Remy		
	Model	1100705		
	Type	Diode Rectifying		
	Ratio—Gen. to Cr/s rev.	2.33		
	Gen. cut-in (hot)—engine rpm	Charge on Idle		
Regulator	Make	Delco Remy		
	Model	1119515		
	Type	Vibrating Contact		
	Cutout relay	Closing voltage @ generator rpm	None	
		Reverse current to open	None	
	Regulated	Voltage	13.5 - 14.4	
		Current	One - Self Regulating	
	Voltage test conditions	Temperature	120° F	
		Load	Less than 10 Amps	
		Other	Upper Contacts	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco Remy		
	Model	1107330 - T - 2446		
	Rotation (drive end view)	Clockwise		
	Engine cranking speed	Not Specified		
	Test conditions	80° F		
	Lock test	Amps	Not Specified	
		Volts	Not Specified	
		Torque (lb. ft.)	Not Specified	
	No load test	Amps	70 - 105	
		Volts	10.6	
RPM (min.)		3800		
Motor control	Switch (solenoid, manual)	Solenoid		
	Starting procedure	Turn ignition key against spring load to full clockwise position. Cars equipped with automatic transmissions must be in park or neutral to start.		

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	166
Flywheel tooth face width		.438	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy
	Model		1115216 - T-3153-A
	Amps	Engine stopped	6.0 at 12V (75° Winding Temp.)
Engine idling		1.35	
Distributor	Make		Delco Remy
	Model		1111042
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0°-2° @ 650 RPM
		Intermediate points deg. @ rpm	12°-16° @ 1800 RPM
		Max deg. @ rpm	20°-24° @ 4000 RPM
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° at 7" Hg.
		Intermediate points, deg @ in Hg	2.5 - 8.2 @ 10"
			9.4-15.2 @ 13"
			16.5 - 20.0 @ 16.7"
	Max. deg. in. Hg.	21.5 @ 22"	
Breaker gap (in.)		.016	
Cam angle (deg.)		28°-32°	
Breaker arm tension (oz.)		19-32	
Timing	Crankshaft deg. @ rpm.		50° @ 850 RPM
	Mark location		Pulley Hub
	Cylinder numbering system (see page 2)		Right Bank 2-4-6-8 Left Bank 1-3-5-7
	Firing order (see page 2)		1-8-4-3-6-5-7-2
Spark Plug	Make and model		AC 44 S
	Thread (mm)		14 MM
	Tightening torque (lb. ft.)		30
	Gap		.030
Cable	Conductor type		Resistance
	Insulation type		Neoprene
	Spark plug protector		Hypalon

ELECTRICAL—SUPPRESSION

Locations & type	Resistance core sparkplug leads and coil leads. Bypass condensers at alternator, regulator, and coil on radio equipped cars.
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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Own - Single Plate
Type pressure plate springs		Flat
Effective plate pressure (lb.)		2450
No. of clutch driven discs		1
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	11.0 x 6.5
	Total eff. area (sq.in.)	123.7
	Thickness	.140
	Engagement cushioning method	Flat Springs
Release bearing	Type & method of lubrication	Ball - Permanent
Torsional damping	Methods: springs, friction material	Coil Spring - Steel

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Std.
Manual with overdrive (std. or opt.)	N.A.
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

		Std.	Opt.
Number of forward speeds		3	4
Transmission ratios	In first	2.59	2.20
	In second	1.60	1.64
	In third	1.00	1.28
	In fourth	1.00	1.00
	In reverse	3.33	2.27
Synchronous meshing, specify gears		2-3	1-2-3-4
Shift lever location			
Lubricant	Capacity (pt.)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
Extreme cold			

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DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	
	Lubrication (fitting, prepack)	
Universal joints	Make	
	Number used	
	Type (ball and trunion, cross, other)	
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		
Drive taken through (torque tube or arms, springs)		
Torque taken through (torque tube or arms, springs)		

DRIVE UNITS—REAR AXLE

Description (see instructions)		
Limited Slip differential, type		
Drive Pinion Offset		
No. of differential pinions		
Gear ratios (Std. equip.)	Manual transmission	3.55 (3 & 4 Speed)
	Overdrive transmission	N.A.
	Automatic transmission	3.23
Ring gear O.D. (std. ratio)		
Pinion adjustment (shim, other)		
Pinion bearing adj. (shim, other)		
Wheel bearing type		
Lubricant	Capacity (pt.)	
	Type recommended	
	SAE viscosity number	Summer
		Winter
Extreme cold		

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.55	3.23
No. of teeth	Pinion	11	13
	Ring gear	39	42

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DRIVE UNITS—WHEELS

Type & material		
Rim (size and flange type)	Std.	14 x 6K
	Opt.	N.A.
Attachment	Type (bolt or stud)	
	Circle diameter	
	Number and size	

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.75 x 14
	Type - Nylon, etc.	Nylon
Rev/mile at 50 mph.		775
Inflation press.(cold)	Front	24
	Rear	24
Optional tires - size and ply		N.A.

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		
Self adjusting (std., opt., N.A.)		
Hydraulic system type (single, dual, etc.)		
Power brake make & type (remote, integral, etc.)		
Effective area (sq. in.)*		
Gross lining area (sq. in.)**		
Swept drum area (sq. in.)***		
Percent brake effectiveness—front		
Drum	Diameter	Front
		Rear
	Type and material	
Wheel cylinder bore	Front	
	Rear	
Master cylinder bore		
Available pedal travel		
Line pressure at 100 lb. pedal load		
Shoe clearance adjustment		

(Continued)

* Excludes rivet holes, grooves, chamfers, etc.
 ** Includes rivet holes, grooves, chamfers, etc.
 *** Total swept areas for four brakes:
 Widest lining contact width for each brake x its drum circumference.

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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		
	Front Shoe	Material	
		Size (length x width x thickness)	Front wheel
			Rear wheel
		Segments per shoe	
	Rear Shoe	Material	
		Size (length x width x thickness)	Front wheel
			Rear wheel
Segments per shoe			

BRAKES—PARKING

Type of control	
Location of control	
Operates on	
If separate from service brakes	Type (internal or external)
	Drum diameter
	Lining size (length x width x thickness)

FRAME or UNITIZED CONSTRUCTION

Type and description

SUSPENSION—GENERAL (See Supplemental page 19 for details on Air Suspension)*

Provision for car leveling	
Provision for brake dip control	
Provision for acc. squat control	
Special provisions for car jacking	
Shock absorber front & rear	Type
	Make
	Piston dia.
Other special features	
Rear Stabilizer Bar	

SUSPENSION—FRONT

Type and description

* Air Suspension:
 Air spring type
 Compressor data
 type
 make
 drive ratio

Normal operating pressures
 spring rates
 leveling data

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SUSPENSION FRONT (cont.)

Spring	Type	
	Material	
	Size (coil design height & I.D.; bar length x dia.)	11.4" Design Height 3.60 I.D. 121.5 Long .650 Dia.
	Spring rate (lb. per in.)	425
	Rate at wheel (lb. per in.)	124
	Design load (lb. @ design height)	1800 @ 11.4
Stabilizer	Type (link, linkless, frameless)	
	Material & bar diameter	SAE 1070 .937 Dia.

STEERING

Manual (std., opt., NA)		
Power (std., opt., NA)		
Adjustable steering wheel (tilt, swing, other)	Type and description	
	(std., opt., NA)	
Wheel diameter	Manual	
	Power	
Turning diameter	Outside front	Wall to wall (l. & r.)
		Curb to curb (l. & r.)
	Inside rear	Wall to wall (l. & r.)
		Curb to curb (l. & r.)
Outside wheel angle with inside wheel at 20°		
Manual	Gear	Type
		Make
		Ratios
	Gear	Overall
	No. wheel turns	
Power	Type (coaxial, linkage, etc.)	
	Make	
	Gear	Type
		Ratios
		Gear
	Pump driven by	
	Number wheel turns	
Linkage	Type	
	Location (front or rear of wheels, other)	
	Drag link (trans. or longit.)	
	Tie rods (one or two)	

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STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		
	Bearings (type)	Upper	
		Lower	
		Thrust	
Wheel alignment (range and preferred)	Caster (deg.)		
	Camber (deg.)		Range $-1/4^{\circ}$ to $+1/2^{\circ}$
	Toe-in (outside tread-inches)		
Steering spindle & joint type			
Wheel spindle	Diameter	Inner bearing	
		Outer bearing	
	Thread size		
	Bearing type		

SUSPENSION—REAR

Type and description			
Drive and torq. taken through (see page 17)			
Spring	Type		
	Material		
	Size (length x width, coil design height and I.D.; bar length & dia.)		8.52 Design Height 5.50 I.D. .560 Dia.
	Spring rate (lb. per in.)		144
	Rate at wheel (lb. per in.)		130
	Design load (lb. at design height)		625 @ 8.52"
	Mounting insulation type		
	IF leaf	No. of leaves	
Inserts		Type and size	
		Material	
Shackle (comp. or tens.)			
Stabilizer	Type (link, linkless, frameless)		Linkless
	Material		SAE 1070
Track bar type			

