

AMA Specifications - Passenger Car

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MANUFACTURER	OLDSMOBILE DIVISION GENERAL MOTORS CORPORATION	CAR NAME	JETSTAR I & STARFIRE
MAILING ADDRESS	LANSING, MICHIGAN	MODEL YEAR	1965
		ISSUED:	10-12-64
		REVISED (•)	

NOTES:

- The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
- UNLESS OTHERWISE INDICATED:
 - Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - 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.

<u>BODY TYPE</u>	<u>PASSENGERS</u>	<u>JETSTAR I</u>	<u>STARFIRE</u>
Hardtop Coupe (2 door)	5	35457	36657
Convertible Coupe (2 door)	5	-	36667

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	35457	36657
Wheelbase (L101)		23	123	
Tread	Front (W101)	22	62.5	
	Rear (W102)	22	63.0	
Maximum Overall Dimensions	Length (L103)	23	216.9	
	Width (W103)	22	80.0	
	Height (H101)	24	54.1	
Transmission— (Specify trade name - opt., not available)	Manual	15	Std.	4 Speed Opt.
	Overdrive	16	N.A.	N.A.
	Automatic	16	Opt.	Std.
Axle ratio	Manual	17	3.23:1	3.23:1
	Overdrive	17	N.A.	N.A.
	Automatic	17	3.23	3.23:1
Tire size		18	8.25 x 14	8.25 x 14
Engine	Type, no. cyl., valve arr.	2	90° OHV V-8	
	Fuel system (Carb., other)	8	Carburetor	
	Bore and stroke	2	4.125 x 3.975	
	Piston displ., cu.in.	2	425	
	Std. compression ratio	2	10.50:1	
	Max. bhp at engine rpm	2	370 @ 4800	
	Max. torque at rpm	2	470 @ 3200	

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GENERAL SPECIFICATIONS — DIMENSIONS

(All dimensions in inches unless otherwise indicated)
(Supplemental data available on request)

MODEL	Ref. No.	35457	36657
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FRONT COMPARTMENT

Shoulder room	W3	62.5	62.4
Max. eff. leg room - accelerator	L34	41.5	41.5
Effective head room	H61	37.4	37.4
H Point to Heel point	H30	8.7	8.5
Upper body opening to ground	H50	49.5	49.5

REAR COMPARTMENT

		61.0	60.9
Shoulder room	W4	33.2	32.7
H Point couple distance	L50	36.2	35.2
Minimum effective leg room	L51	37.2	37.2
Effective head room	H63		

STATION WAGON—THIRD SEAT

Shoulder room	W85		
Effective leg room	L86	NOT AVAILABLE	
Effective head room	H86		

LUGGAGE COMPARTMENT

Usable luggage capacity (See instr.)	V1	19.4	
Liftover height	H195	27.9	27.9
Position of spare tire storage		Trunk Incline	
Method of holding lid open		Counter Balance Torsion Bar	

STATION WAGON—CARGO SPACE

Minimum distance between wheel houses at floor level	W201	
Rear end opening width at belt	W204	N O T
Floor length from back of front seat at floor level to inside of closed tail gate	L202	
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	A V A I L A B L E
Maximum height - floor covering to headlining at centerline of rear axle	H201	
Maximum height of rear opening - tail and lift gates open	H202	
Cargo volume index (cu.ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	

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MODEL 35457 36657

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° OHV V-8
Bore and stroke (nominal)	4.125 x 3.975
Piston displacement, c.u. in.	425
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
Compras. ratio (nominal)	10.50:1
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 $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$	54
Published max. bhp* @ eng. RPM	370 @ 4800
Published max. torque* (lb. ft. @ RPM)	470 @ 3200
Recommended fuel regular - premium	Premium
Idle speed (spec. neutral or drive)	Manual 550 Automatic 500

ENGINE—PISTONS

Material	Aluminum Alloy
Description and finish	Autothermic, Cam Grind, Tin Plate, Steel Strut
Weight (piston only) oz.	23.460
Clearance (limits)	Top land .0275 - .0325 Skirt Top .0010 - .0025 Bottom .0010 - .0015
Ring groove depth	No. 1 ring .2125 - .2195 No. 2 ring .2125 - .2195 No. 3 ring .2025 - .2095 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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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
35457	425	4 Bbl.	10.50:1	370 @ 4800	470 @ 3200	3 Speed Syncromesh 4 Speed Syncromesh Turbo Hydra-Matic	3.23:1 3.23:1 3.23:1
36657 (Std) 36667	425	4 Bbl.	10.50:1	370 @ 4800	470 @ 3200	Turbo Hydra-Matic 4 Speed Syncromesh	3.23:1 3.23:1

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MODEL 35457 36657

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 OD Taper Face - Grapmitox 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: .285
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		.075 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 (GM 3889M 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 120M Alloy Cast Iron	
Bearings	Material	Steel Backed Babbitt 4195 or CGB #F-11
	Number	5
Type of Drive	Gear or chain	Chain
	Crankshaft gear or sprocket material	GM 85M, Sintered Iron ASTM B-310-56T SAE 1118, 1140, 1141, 1146
	Camshaft gear or sprocket material	Die Cast Aluminum SAE #308 - #101 Nylon Teeth Optional Cast Iron
	Timing chain	No. of links 48
		Width .875 Morse .844 Link Belt
		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 - Crankshaft Sprocket	

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	24°
		Closes (°ABC)	82°
		Duration - deg.	286°
	Exhaust	Opens (°BBC)	74°
		Closes (°ATC)	26°
		Duration - deg.	280°
	Valve opening overlap		50°
Intake	Material		SAE #1041 SAE #1047 Steel
	Overall length		4.707
	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)		.474
	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		4.695
	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)		.463
	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)	Mgn 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)	Reverse Flow R.H. Muffler - Front (Reverse Flow) Separate Resonator L.H. Resonator - Front R.H. & L.H. Resonator - Rear
Exhaust pipe dia. (O.D. Branch wall thickness) Main	2.25x.084 RH 2.25x.076 LH 2.25x.084 RH 2.25x.048 LH
Tail pipe diameter (O.D. & wall thickness)	None None

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Optional	Positive Crankcase Ventilation
			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 and Air Cleaner
	Air inlet (breather cap, carburetor air cleaner, other)		Breather Cap
	Flame arrestor (screen, check valve, other)		Screw

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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.)	25
	Filler location	Behind License Plate Rear Bumper
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Right Front on Block
	Pressure range	7.75 - 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	Paper
		None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
Jetstar I & Starfire (Std)	425	Syncromesh Turbo Hydra-Matic	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.)	17.5	
	Without heater (qt.)	16.5	
	Opt. equipment-specify (qt.)	18.0 Air Conditioning	
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 AC Only	
Bearing type		Ball	
*Drive belts (indicate belt used by letter)	Fan	50.82	
	Generator	Same	
	Water Pump	Same	
	Power Steering	61.70	
	Air Conditioning	64.05	

* Drive Belt Dimensions	
Angle of V	
Nominal length (SAE)	
Width	

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MODEL		35457					36667

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco Remy 1980570	Delco Remy 1980004	
	Voltage Rtg. & Total Plates	12V - 66 Plates	12V - 78 Plates	
	SAE Designation & Amp Hr. Rtg	35 MA - 70 AMP HR.	35 MA - 73 AMP HR.	
	Location	Engine Compartment - Front L.H. Side		
	Terminal grounded	Negative		
Generator	Make	Delco Remy		
	Model	1100699		
	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	
	Regu-lated	Voltage	13.5 - 14.4	
		Current	None - Self Regulating	
	Voltage test con- ditions	Temperature	120°	
		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 Over-running 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 10" HG
		Intermediate points, deg @ in Hg	2.5-10 @ 13"
			7.5-15.5 @ 15" 16.5-20.25 @ 19"
	Max. deg. in. Hg.		21.5 @ 22"
	Breaker gap (in.)		.016
Timing	Cam angle (deg.)		28°-32°
	Breaker arm tension (oz.)		19-32
	Crankshaft deg. @ rpm.		5° @ 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)		14MM
	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 & coil leads. Bypass condensers at alternator, regulator and coil on radio equipped cars.
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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Ind. Lamp
Temperature indicator—type		Ind. Lamp
Oil pressure indicator—type		Ind. Lamp
Fuel indicator—type		Gauge
Other		
Ignition switch	Identify positions in order and circuits controlled	1. Accessory on - ignition off. 2. Off - lock position. 3. Ignition on - ignition thru resistor. 4. Accessory off - ignition direct, solenoid on.
	Run	
	Start	
	Provision for illumination	No
	Location	Instrument Panel - Right of Steering Column
Main light-ing switch	Identify positions and lamps controlled	1. Park, instrument, tail and license lights. 2. Headlights, instrument, tail and license lights.
	Rotate Control	Dims instrument lights.
Other light switches	Locations and lamps controlled	
	Foot Dimmer	L.H. toe pan - controls high and low beam headlamps.
	Map & Courtesy	Right of driver on instrument panel overhang.
Other switches	Locations and de-vices controlled	
	W/S Wiper	Left of driver on instrument panel.
	Heater	Right of driver on instrument panel.
	Power Top	Instrument panel overhang - right of driver.
	Electric An-tenna	Instrument panel overhang - right of driver.
Windshield wiper	Make	Delco Appliance
	Type	Electric 2 Speed
	Vacuum booster provision	None
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	5.2 & 5.7

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ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.

Headlamps & arrangement		Dual Headlight L4001 - L4002 2 each
Headlamp beam indicator		1-194
Parking		2-1157
Tail		4-1157 *
Stop		Same As *
Direction signal	Front	2-1157A
	Rear	2-1157
	Indicator	2-194
License Plate		1-97
Oil pressure indicator		1-194
Charge indicator		2-194
Instrument		1-1893
Clock		1-1893
Radio		1-1893

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA.

Ignition lock	1-1445
Back up	2-1156 **
Dome	1-1004
Glove compartment	1-1895
Prkg, brake signal	1-194
Luggage compartment	1-631
Underhood	1-631
Courtesy	2-90
Map	1-90
Console	3-90
Gas Gauge	2-194
Temp Cold	1-194
Temp Hot	1-194

Heater Control	1-1895
Ash Tray	2-1445

** Optional

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ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Direction indicator same as (a).

Headlamp	SFE-9 (A)
Headlamp beam indicator	Same as (A)
Parking lamp	Same as (A)
Tail lamp	SFE-9 (B)
Stop lamp	SFE-20
Direction indicator	Same as (A)
License plate lamp	Same as (A)
Instrument lamp	Same as (A)
Ignition lamp	Same as (A)
Back up lamp	Same as (A)
Dome lamp	SFE-20 (D)
Clock	Same as (D)
Clock lamp	Same as (A)
Radio	SFE-9
Glove compartment lamp	SFE-9 (E)
Underhood Lamp	Same as (E)
Cornering Lamp	Same as (E)
Heater	SFE-20
Air Conditioning	AGC-25 (F)
Rear Window Defroster	Same as (F)
Windshield Wiper	SFE-20
Electric Antenna	SFE-20 (G)
Power Windows	Same as (G)
Cruise Control	Same as (G)
Power Seats	AGC-25

Courtesy and Cigar Lighter Same as (D)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Rear Seat Lighters AGC-25

Height above ground to center of bulb	Tail	Lowest	19.9	25.9
		Highest	28.8	-
	Stop		28.8 upper 19.9 lower	25.9
	Backup		15.5	15.5
	License, rear		21.3	21.3
	Directional	Front	18.0	18.0
		Rear	28.8 upper 19.9 lower	25.9
	Headlamp	Inside	25.8	25.8
		Outside*	25.8	25.8
Distance from C/L of car to center of bulb	Tail	Inside	-	-
		Outside	32.2	31.5
	Stop		32.2	31.5
	Backup		12.9	12.9
	License, rear		0.0	0.0
	Directional	Front	14.4	14.4
		Rear	32.2	31.5
	Headlamp	Inside	24.2	24.5
		Outside*	31.8	31.4

* If single headlamps are used enter here.

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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Borg & Beck #1657	N.A.
Type pressure plate springs		Coil	FF
Effective plate pressure (lb.)		Net Plate Load 2558#	FF
No. of clutch driven discs		One	FF
Clutch facing	Material	Woven Asbestos	FF
	Outside & inside dia.	10.5 x 6.5	FF
	Total eff. area (sq.in.)	100.6	FF
	Thickness	.135 Each Facing	FF
	Engagement cushioning method	Torbend Plate	FF
Release bearing	Type & method of lubrication	Ball Permanent	FF
Torsional damping	Methods: springs, friction material	Coil Springs - Steel Friction	FF

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard	4 Speed Optional
Manual with overdrive (std. or opt.)	N.A.	
Automatic (std. or opt.)	Optional	Standard

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		3	N.A.
Transmission ratios	In first	2.59	FF
	In second	1.60	FF
	In third	Direct	FF
	In fourth		FF
	In reverse	3.33	FF
Synchronous meshing, specify gears		2 & 3	FF
Shift lever location		Steering Column	FF
Lubricant	Capacity (pt.)	3.08	FF
	Type recommended	Multipurpose	FF
	SAE viscosity number	Summer	80 or 90
		Winter	80 or 90
		Extreme cold	80 or 90

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		N
	Manual lockout (yes, no)		O
	Downshift accelerator control (yes, no)		T A
	Minimum cut-in speed		V
	Gear ratio		A
	Lubricant	Capacity (pt.) (Overdrive only)	I
		Separate filler (yes, no)	L
		Type recommended	A
		SAE viscosity number	B
		Summer	L
		Winter	E
		Ext. cold	

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Turbo Hydra-Matic					
Type describe		3 Speed Torque Converter					
Method of Selection (Lever, Push Button or other)		Lever					
Selector Pattern		P Park	R Reverse	N Neutral	D Drive	S Super	L Low
List gear ratios Selector Pattern and indicate which are used in each selector position			<u>Drive</u>		<u>Super</u>		<u>Low</u>
		1st	2.48		2.48		2.48
		2nd	1.48		1.48		-
		3rd	Direct		-		-
Max. upshift speeds—drive range		1-2 40 MPH			2-3 75 MPH		
Max. kickdown speeds—drive range		2-1 18 MPH			3-2 66 MPH		
Torque convertor	Number of elements	Three					
	Max. ratio at stall	1.80 High Angle			2.20 Low Angle		
	Type of cooling (air, water)	Water					
Lubricant	Capacity—refill (pt.)	23 Total			8 Pts. Refill		
	Type recommended	Type "A" ¹⁰ Automatic Transmission Fluid Suffix A					
Special transmission features		Converter has variable stator which gives better top gear efficiency, with increased performance and good creep characteristics.					

DRIVE UNITS—PROPELLER SHAFT

Number used		One	
Type (exposed, torque tube)		Exposed	
Outer diameter x length* x wall thickness	Manual transmission	3.38 x 58.56 x .065	None
	Overdrive transmission	None	
	Automatic transmission	3.00 x 58.37 x .065	

*Center to center of universal joints, or to centerline of rear attachment.

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DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		Anti-Friction
	Lubrication (fitting, prepack)		Prepack
Universal joints	Make		Saginaw Steering Gear & Spicer
	Number used		Two
	Type (ball and trunnion, cross, other)		Cross
	Bearing	Type (plain, anti-friction)	Anti-Friction
		Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube or arms, springs)			Arms
Torque taken through (torque tube or arms, springs)			Arms

DRIVE UNITS—REAR AXLE

Description (see instructions)			Salisbury Live Hypoid - Semi-Floating	
Limited Slip differential, type			Multiple Plate Clutch	
Drive Pinion Offset			1.75	
No. of differential pinions			2	
Gear ratios (Std. equip.)	Manual transmission		3.23:1	N.A.
	Overdrive transmission		N.A.	
	Automatic transmission		3.23:1	
Ring gear O.D. (std. ratio)			8 7/8	
Pinion adjustment (shim, other)			Shim	
Pinion bearing adj. (shim, other)			Coll. Spacer	
Wheel bearing type			Ball	
Lubricant	Capacity (pt.)		4.63	
	Type recommended		Multipurpose MIL-L-2105-B	
	SAE viscosity number	Summer	80-90	
		Winter	80-90	
		Extreme cold	80-90	

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.23:1
No. of teeth	Pinion	13
	Ring gear	40

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DRIVE UNITS—WHEELS

Type & material		Drop Center Welded Wheels
Rim (size and flange type)	Std.	14 x 6K
	Opt.	14 x 6K
Attachment	Type (bolt or stud)	Stud
	Circle diameter	5.00
	Number and size	5 x 1/2

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.25 x 14
	Type - Nylon, etc.	Rayon
Rev/mile at 50 mph.		760
Inflation press.(cold)	Front	24
	Rear	24
Optional tires - size and ply		8.55 x 14

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		Duo Servo
Self adjusting (std., opt., N.A.)		Standard
Hydraulic system type (single, dual, etc.)		Single Dual
Power brake make & type (remote, integral, etc.)		Moraine & Bendix - Integral
Effective area (sq. in.)*		202.0
Gross lining area (sq. in.)**		208.6
Swept drum area (sq. in.)***		328.0
Percent brake effectiveness—front		56.0
Drum	Front	11
	Rear	11
	Type and material	Centrifuse Cast Iron in Steel Shell
Wheel cyl- inder bore	Front	1 1/8"
	Rear	1"
Master cylinder bore		1" Manual 1" Power
Available pedal travel		5.50 Manual 3.82 Power
Line pressure at 100 lb. pedal load		750 PSI Manual 670 PSI @ 40# Pedal Load
Shoe clearance adjustment		.015

(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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DRIVE UNITS—WHEELS

Type & material		
Rim (size and flange type)	Std.	
	Opt.	
Attachment	Type (bolt or stud)	
	Circle diameter	
	Number and size	

DRIVE UNITS—TIRES

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

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)	Metallic Lining - Optional	
Self adjusting (std., opt., N.A.)	Duo Servo	
Hydraulic system type (single, dual, etc.)	Single	
Power brake make & type (remote, integral, etc.)	Moraine & Bendix - Integral	
Effective area (sq. in.)*	145	
Gross lining area (sq. in.)**	145	
Swept drum area (sq. in.)***	328	
Percent brake effectiveness—front	58.5	
Drum	Front	11
	Rear	11
	Type and material	Centrifuse Cast Iron in Steel Shell
Wheel cylinder bore	Front	1 3/16
	Rear	1
Master cylinder bore	7/8 Manual 7/8 Power	
Available pedal travel	5.50 Manual 3.82 Power	
Line pressure at 100 lb. pedal load	980 PSI Manual 875 @ 40# Pedal Load	
Shoe clearance adjustment	.015	

(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		Riveted	
	Front Shoe	Material	Marshall H3144 Primary	
		Size (length x width x thickness)	Front wheel	9.00 x 2.75 x .20
			Rear wheel	9.00 x 2.00 x .20
		Segments per shoe	One	
	Rear Shoe	Material	Marshall H3152F	
		Size (length x width x thickness)	Front wheel	11.50 x 2.75 x .29
			Rear wheel	11.50 x 2.00 x .29
		Segments per shoe	One	

BRAKES—PARKING

Type of control	Suspended Pedal	
Location of control	Left Drivers Compartment	
Operates on	Rear Brakes	
If separate from service brakes	Type (internal or external)	Not Separate
	Drum diameter	Not Separate
	Lining size (length x width x thickness)	Not Separate

FRAME or UNITIZED CONSTRUCTION

Type and description

Channel Section Side Rails

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

Provision for car leveling	None	
Provision for brake dip control	Counter Dive Design of Suspension	
Provision for acc. squat control	Springs & Control Arms	
Special provisions for car jacking	None	
Shock absorber front & rear	Type	Direct Acting
	Make	Delco
	Piston dia.	1 inch
Other special features	None	

SUSPENSION—FRONT

Type and description

Independent Coil Springs

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

Normal operating pressures
 spring rates
 leveling data

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BRAKES—SERVICE (cont.)

Metallic Lining - Option

Brake lining	Bonded or riveted		Riveted	
	Front Shoe	Material	Moraine 705	
		Size (length x width x thickness)	Front wheel	6 Segments 4.92 x 2.75 x .200
			Rear wheel	6 Segments 6.00 x 2.00 x .200
		Segments per shoe		
	Rear Shoe	Material	Moraine 701	
		Size (length x width x thickness)	Front wheel	12 Segments 9.84 x 2.75 x .320
			Rear wheel	10 Segments 10.0 x 2.00 x .320
		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		

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	Independent Coil Springs
	Material	SAE 9260 or 5160
	Size (coil design height & I.D.; bar length x dia.)	11" Design Height - 4.05 I.D. 165" Long .688 Dia.
	Spring rate (lb. per in.)	310
	Rate at wheel (lb. per in.)	89
	Design load (lb. @ design height)	2340 @ 11"
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE 1070 1.000

STEERING

Manual (std., opt., NA)				Standard		N.A.	
Power (std., opt., NA)				Optional		Standard	
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt Type			
		(std., opt., NA)		Optional			
Wheel diameter		Manual		16.00			
		Power		16.00			
Turning diameter	Outside front	Wall to wall (l. & r.)		46.4			
		Curb to curb (l. & r.)		43.6			
	Inside rear	Wall to wall (l. & r.)		26.0			
		Curb to curb (l. & r.)		26.7			
Outside wheel angle with inside wheel at 20°				Manual 18.2° Power 17.6°			
Manual	Gear	Type		Ball Nut		N.A.	
		Make		Saginaw Steering Gear		N.A.	
		Ratios	Gear	24.0:1		N.A.	
			Overall	33.38:1		N.A.	
	No. wheel turns		5.5 Lock to Lock		N.A.		
Power	Type (coaxial, linkage, etc.)		Gear Integral				
	Make		Saginaw Steering Gear				
	Gear	Type		Ball Nut			
		Ratios	Gear	17.5:1			
			Overall	21.74:1			
	Pump driven by		Belt from Crank				
	Number wheel turns		3.5 Lock to Lock				
	Linkage	Type		Forged			
Location (front or rear of wheels, other)		Rear					
Drag link (trans. or longit.)		Transverse					
Tie rods (one or two)		2					

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STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		10° at +1° Camber
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
		Thrust	Ball Joint
Wheel alignment (range and preferred)	Caster (deg.)		Range -1/2° to -1 1/2°
	Camber (deg.)		Range -1/4° to +1/2°
	Toe-in (outside tread-inches)		1/8 to 1/4
	Steering spindle & joint type		Ball Joint
Wheel spindle	Diameter	Inner bearing	1.2498 - 1.2493
		Outer bearing	.7498 - .7493
	Thread size		3/4 - 20
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description			4 Link Coil Spring		
Drive and torq. taken through (see page 17)			Arms		
Spring	Type		Coil		
	Material		SAE #5160 or 9260		
	Size (length x width, coil design height and I.D.; bar length & dia.)		9.00 Design Height - 5.50 I.D., 125" Long .586 Dia.		
	Spring rate (lb. per in.)		125	110	
	Rate at wheel (lb. per in.)		125	100	
	Design load (lb. at design height)		1040 @ 9.00"	1040 @ 9.00"	
	Mounting insulation type		Rubber		
	If leaf	No. of leaves		-	
		Inserts	Type and size	-	
Material			-		
Shackle (comp. or tens.)		-			
Stabilizer	Type (link, linkless, frameless)		None		
	Material		None		
Track bar type			None		

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WEIGHTS

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BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	None
Type of finish (lacquer, enamel, other)		Lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle (Serial) No. Location		L.H. Front Pillar Post
Engine No. Location		None
Theft protection - type		Key Type Starting
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	None
Seat cushion type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	-
Seat back type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	-
Windshield glass type (i.e., single curved - laminated plate)		Compound Curve
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved One Piece
Side glass type (i.e., curved - tempered plate)		Curved
Side glass exposed surface area		1639.0
Windshield glass exposed surface area		1467.9
Backlight glass exposed surface area		1479.5
Total glass exposed surface area		4586.4

BODY—CONVENIENCE EQUIPMENT (Indicate whether standard, optional or NA on each series)

Power windows	Side Windows	Optional (Std. on Starfire Conv.)
	Vent Windows	Optional with Power Side Windows
	Backlight or tailgate	None
Power seats (specify type as well as availability)		2 way L.H. Bucket Optional (Std. on Starfire Conv.)
		4 way L.H. Bucket Optional
Reclining front seat back		N.A.
Front seat headrest		N.A.
Radios (specify type as well as availability)		Deluxe Pushbutton, Super Deluxe, AM-FM *
Rear seat speaker		Optional
Power Antenna		Optional
Clock		Standard
Air Conditioner (specify type and availability)		Optional

* Optional

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