AMA Specifications – Passenger Car

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MANUFACTURER	BUICK MOTOR DIVISION	CAR NAME	BUICK (LESABRE, WILDCAT, ELECTRA RIVIERA)	
MAILING ADDRESS	1051 E. HAMILTON FLINT @, MICHIGAN	MODEL YEAR	1966	ISSUED: 11-2-64 REVISED (•) 5-15-65

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.

MODEL	BODY STYLE
LESABRE	
45237	2 Door 6 Passenger Pillarless Coupe
45239	4 Door 6 Passenger Hardtop Sedan
45269	4 Door 6 Passenger Thin Pillar Sedan
45437	2 Door 6 Passenger Pillarless Coupe
45439	4 Door 6 Passenger Hardtop Sedan
45467	2 Door 6 Passenger Convertible Coupe
45469	4 Door 6 Passenger Thin Pillar Sedan
WILDCAT	
46437	2 Door 6 Passenger Pillarless Coupe
46439	4 Door 6 Passenger Hardtop Sedan
46467	2 Door 6 Passenger Convertible Coupe
46469	4 Door 6 Passenger Thin Pillar Sedan
46637	2 Door 6 Passenger Pillarless Coupe
46639	4 Door 6 Passenger Hardtop Sedan
46667	2 Door 6 Passenger Convertible Coupe
ELECTRA	
48237	2 Door 6 Passenger Pillarless Coupe
48239	4 Door 6 Passenger Hardtop Sedan
48269	4 Door 6 Passenger Thin Pillar Sedan
48437	2 Door 6 Passenger Pillarless Coupe
48439	4 Door 6 Passenger Hardtop Sedan
48467	2 Door 6 Passenger Convertible Coupe
48469	4 Door 6 Passenger Thin Pillar Sedan
RIVIERA	
49487	2 Door 6 Passenger Hardtop Coupe

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	LESABRE 45269	WILDCAT 46469	ELECTRA 48269	RIVIERA 49487
Wheelbase (L101)		23	123.0	126.0		119.0
Tread	Front (W101)	22	63.0	63.4		63.5
	Rear (W102)	22	63.0			
Maximum Overall Dimensions	Length (L103)	23	217.0	220.1	223.5	211.2
	Width (W103)	22	80.0			78.8
	Height (H101)	24	55.2		55.8	53.4
Transmission—(Specify trade name – opt., not available)	Manual	15	Standard		Not Available	
	Overdrive	16	Not Available			
	Automatic	16	(a) Optional	(a)	(a) Standard	(a)
Axle ratio	Manual	17	3.36	3.42	Not Available	
	Overdrive	17	Not Available			
	Automatic	17	(a) 3.08	3.07		3.23
Tire size		18	8.15-15	8.45-15	8.85-15	8.45-15
Engine	Type, no. cyl., valve arr.	2	V8 - 90° - In - Head			
	Fuel system (Carb., other)	8	Carburetor			
	Bore and stroke	2	3.750 x 3.850	4.1875 x 3.640		4.3125 x 3.64
	Piston displ., cu.in.	2	340	401		425
	Std. compression ratio	2	9.0	10.25		
	Max. bhp at engine rpm	2	220 @ 4000	325 @ 4400		340 @ 4400
	Max. torque at rpm	2	340 @ 2400	445 @ 2800		465 @ 2800

(a) Super Turbine

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GENERAL SPECIFICATIONS — DIMENSIONS

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

MODEL	Ref. No.	LESABRE	WILDCAT	ELECTRA	RIVIERA
		45269	46469	48269	49487
FRONT COMPARTMENT					
Shoulder room	W3	62.3		62.2	58.8
Max. eff. leg room - accelerator	L34	42.2			41.3
Effective head room	H61	38.9		39.7	38.0
H Point to Heel point	H30	8.5		8.2	7.6
Upper body opening to ground	H50				
REAR COMPARTMENT					
Shoulder room	W4	61.4		61.0	57.4
H Point couple distance	L50	36.3		39.2	33.4
Minimum effective leg room	L51	39.0		42.1	35.2
Effective head room	H63	37.7		38.2	37.5
STATION WAGON—THIRD SEAT		"No Wagons in these Series"			
Shoulder room	W85	-----			
Effective leg room	L86	-----			
Effective head room	H86	-----			
LUGGAGE COMPARTMENT					
Usable luggage capacity (See instr.)	V1				
Liftover height	H195				
Position of spare tire storage		Horizontal			
Method of holding lid open		Torsion Bar (Spring Loaded)			

STATION WAGON—CARGO SPACE		"No Wagons in these Series"
Minimum distance between wheel houses at floor level	W201	-----
Rear end opening width at belt	W204	-----
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	-----
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	LESABRE	WILDCAT	ELECTRA	RIVIERA
	45269	46469	48269	49487

ENGINE—GENERAL

Type, no. cyls., valve arr.		V8 - 90° - In-Head			
Bore and stroke (nominal)		3.750 x 3.850	4.1875 x 3.640		4.3125 x 3.640
Piston displacement, cu. in.		340	401		425
Bore spacing (C/L to C/L)		4.240	4.750		
No. system (front to rear)	L. Bank	1-3-5-7	2-4-6-8		
	R. Bank	2-4-6-8	1-3-5-7		
Firing order		1-8-4-3-6-5-7-2	1-2-7-8-4-5-6-3		
Compres. ratio (nominal)		9.0	10.25		
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		6° 15"			4° 24' 50"
Taxable horsepower $\frac{Dia.^2 \times No. Cyl.}{2.5}$		45.0	56.11		59.51
Published max. bhp* @ eng. RPM		220 @ 4000	325 @ 4400		340 @ 4400
Published max. torque* (lb. ft. @ RPM)		340 @ 2400	445 @ 2800		465 @ 2800
Recommended fuel regular - premium		Regular	Premium		
Idle speed (spec. neutral or drive)	Manual	550	500	Not Available	
	Automatic	550 (Drive)	500 (Drive)		

ENGINE—PISTONS

Material		Cast Aluminum Alloy			
Description and finish		Cam Ground - Transverse Slot - Divorced Skirt			
Weight (piston only) oz.		17.34	23.68		25.31
Clearance (limits)	Top land	.0265 - .0345	.034 - .042		
	Skirt Top	.0005 - .0011	.001 - .0016		.0013 - .0019
	Skirt Bottom	.0005 - .0021	.002 - .0036		.0025 - .0041
Ring groove depth	No. 1 ring	.1885 - .1930	.211 - .219		.209 - .217
	No. 2 ring	.188 - .1955	.214 - .221		.212 - .219
	No. 3 ring	.188 - .1955	.214 - .221		.192 - .199
	No. 4 ring		None		

*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		
LeSabre - - 452-454	*340	2 Bbl	9.0	220@ 4000	340@ 2400	Manual (3)	3.36
	340	2 Bbl	9.0	220@ 4000	340@ 2400	Automatic	3.08
	340	4 Bbl	10.25	260@ 4000	365@ 2800	Manual (3)	3.36
	340	4 Bbl	10.25	260@ 4000	365@ 2800	Automatic	3.08
Wildcat 464-466 - -	*401	4 Bbl	10.25	325@ 4400	445@ 2800	Manual (3)	3.42
	401	4 Bbl	10.25	325@ 4400	445@ 2800	Automatic	3.07
	425	4 Bbl	10.25	340@ 4400	465@ 2800	Automatic	3.07
(a)	425	2-4 Bbl	10.25	360@ 4400	465@ 2800	Automatic	3.07
Electra 482-484 - -	*401	4 Bbl	10.25	325@ 4400	445@ 2800	Automatic	3.07
	425	4 Bbl	10.25	340@ 4400	465@ 2800	Automatic	3.07
(a)	425	2-4 Bbl	10.25	360@ 4400	465@ 2800	Automatic	3.07
Riviera 494 - -	*425	4 Bbl	10.25	340@ 4400	465@ 2800	Automatic	3.23
(a)	425	2-4 Bbl	10.25	360@ 4400	465@ 2800	Automatic	3.23

* Standard Engine - All Others Optional

(a) Dealer Installed Only

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MODEL			LESABRE 45269	WILDCAT 46469	ELECTRA 48269	RIVIERA 49487
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.		#1 C.I. Chrome Plated #2 G.I. Lubrited	Cast Iron Lubrited		(f)
	Width		(e)	.077-.078		
	Gap		.010-.020	.015-.035		.015-.025
Oil	Description - material, type, coating, etc.		Steel - Uncoated			Steel Chrome Plated
	Width		.181-.187			.182-.1885
	Gap		.015-.035			.015-.055
Expanders			Steel Oil Ring-Hump Type			(d)
ENGINE—PISTON PINS						
Material			Extruded SAE 1018			(g)
Length			3.060	3.520		
Diameter			.9394-.9397	.9994-.9997		
Type	Locked in rod, in piston, floating, etc.		Pressed in Rod			
	Bushing	In rod or piston	None			
		Material	None			
Clearance	In piston		.00005 - .0001 Select			
	In rod		(a)	.00075 - .00125 Select (Press)		
Direction & amount offset in piston			(b)	None		
ENGINE—CONNECTING RODS						
Material			Forged - SAE 1141 Steel			
Weight (oz.)			22.8	24.384		
Length (center to center)			6.385	6.220		
Bearing	Material & Type		Steel Backed - M/400 Aluminum - Removeable			
	Overall length		.737	.820		
	Clearance (limits)		.0020 - .0023			
	End play		.006-.014(c)	.005-.012(c)		

(a) .0007-.0015 Select Press.
(b) .040" (Total for both rods)
(c) Total for both rods.
(d) #3 (oil) Steel Circumferential. #2 (comp.) steel hump type.
(e) #1 - 0.0785-0.079; #2-0.077-0.078
(f) #1 - C.I. Chrome Plated. #2 - C.I. Lubrited with Expander.
(g) Forged SAE 1141 Steel.

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MODEL	LESABRE	WILDCAT	ELECTRA	RIVIERA
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ENGINE—CRANKSHAFT

Material			(a)	SAE - 1145 or SAE - 1053 Steel
Vibration damper type			Rubber Absorption	
End thrust taken by bearing (No.)			Three	
Crankshaft end play			.004-.008	
Main bearing	Material & type		(b)	Steel Backed - All Removable First Four M/400 - Rear Durex 100A
	Clearance		.0005-.0021	.000 - .0019
	Journal dia. and bearing overall length	No. 1	2.9995 x .864	2.4985 x .940
		No. 2	2.9995 x .864	2.4985 x .940
		No. 3	2.9995 x 1.057	2.4985 x 1.127
		No. 4	2.9995 x .864	2.4985 x .940
		No. 5	2.9995 x .864	2.4985 x 1.200
		No. 6	None	
		No. 7	None	
	Dir. & amt. cyl. offset		None	
Crankpin journal diameter			2.0000	2.2495

ENGINE—CAMSHAFT

Location			Above Crankshaft at Center of "V"	
Material			Cast Iron Alloy	
Bearings	Material		Steel Backed Babbitt	
	Number		Five	
Type of Drive	Gear or chain		Chain	
	Crankshaft gear or sprocket material		Sintered Iron	
	Camshaft gear or sprocket material		Nylon Coated Aluminum	
	Timing chain	No. of links	54	52
		Width	.875	.864
		Pitch	.375	.500

ENGINE—VALVE SYSTEM

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

(a) Pearlitic Malleable Iron

(b) Steel Backed - All Removeable
#5 Lower - M/100 Durex - Remainder M/400

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ENGINE—VALVE SYSTEM (cont.)						
Timing	Intake	Opens (°BTC)	32	28		29
		Closes (°ABC)	82	87		81
		Duration - deg.	294	295		290
	Exhaust	Opens (°BBC)	70	76		71
		Closes (°ATC)	44	46		48
		Duration - deg.	294	302		299
	Valve opening overlap		76	74		77
Intake	Material		SAE 1041, 1047 or TS 8150 Steel			
	Overall length		4.645	4.785		
	Actual overall head dia.		1.8125	1.875		
	Angle of seat & face		45			
	Seat insert material		None			
	Stem diameter		(b)	(a)		
	Stem to guide clearance		(c)	.0015-.0035 & .0003 Max. Taper		
	Lift (@ zero lash)		.393	.431		.439
	Outer spring press. and length	Valve closed (lb. @ in.)	64 ± 5 @ 1.727	46 @ 1.600		
		Valve open (lb. @ in.)	164 ± 5 @ 1.340	101 @ 1.160		
	Inner spring press. and length	Valve closed (lb. @ in.)	None	25.5 @ 1.690		
		Valve open (lb. @ in.)	None	76 @ 1.250		
Exhaust	Material		GM-N82152 (21-4N)			
	Overall length		4.645	4.785		
	Actual overall head dia.		1.375	1.500		
	Angle of seat & face		45			
	Seat insert material		None			
	Stem diameter		(d)	Tapered .3725±.0005 Top to .3715±.0005 Bottom		
	Stem to guide clearance		(e)	Top .0015 to .0035 - Bottom .0025 to .0045		
	Lift (@ zero lash)		.401	.431		.441
	Outer spring press. and length	Valve closed (lb. @ in.)	64 ± 5 @ 1.727	46 @ 1.600		
		Valve open (lb. @ in.)	164 ± 6 @ 1.340	101 @ 1.160		
	Inner spring press. and length	Valve closed (lb. @ in.)	None	25.5 @ 1.690		
		Valve open (lb. @ in.)	None	76 @ 1.250		
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		Splash & Nozzle	Drip from Front Cam Bearing		
	Cylinder walls		Splash & Nozzle			

(a) .3725±.0005 dia. Max. allowable taper to be .0003 with smallest dia at valve head end.
(b) .3415/.3405 dia. Max. allowable taper to be .0003 with smallest dia at head end.
(c) .0012-.0032 and .0003/max. taper.
(d) .3402/.3412 -- .3397/.3407 bottom.
(e) Top .0015/.0035 -- Bottom .002/.004.

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear			
Normal oil pressure (lb. @ engine rpm)	33 @ 2400	40 @ 2400		
Oil pressure sending unit (elect. or mech.)	Electrical			
Type oil intake (floating, stationary)	Stationary			
Oil filter system (full flow, partial, other)	Full Flow			
Filter replacement (element, complete)	Element & Can			
Capacity of crankcase, less filter-refill (qt.)	Four			
Oil grade recommended (SAE viscosity and temperature range)	ANTICIPATED LOWEST TEMPERATURE Above 32°F Below 32°F to Zero °F Below Zero °F	USE SAE VISCOSITY 10W-30, 20W or 20 10W-30, 10W 5W-20, or 5W		
Engine Service Requirement (MM, MS, etc.)	Passing Car Makers Test GM4745M			

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single with Crossover		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		Reverse Flow Muffler with Straight-Through Resonator.		Rev. Flow Muf.& Resn.
Exhaust pipe dia. (O.D. wall thickness)	Branch	1.875-.084 (b)	2.00-.084 (b)	— — — —
	Main	2.25 -.084 (b)	2.25-.084 (b)	2.25 - .084
Tail pipe diameter (O.D. & wall thickness)		2.00-.048		

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System	
	Optional	None	
Control unit	Make and model	A.C.	
	Location	Right Rocker Arm Cover (a)	
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum	
	Control method (variable orifice, fixed orifice, other)	Variable Orifice	
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other	Intake Manifold (Standard Set-Up) Also Discharge into Air Cleaner (Optional Set-Up)	
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap Ventilation Air Filter in Optional System	
	Flame arrestor (screen, check valve, other)	Check Valve	

(a) Left Rocker Arm Cover also used on State of California cars.
(b) Laminated Tubing.

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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.)	Aprox 25	Aprox 21
	Filler location	Rear	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Engine	
	Pressure range	5.50-7.00 at Outlet at 1800 rpm	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Pleated Paper	Saran
	Locations	Engine	Fuel Tank
Carburetor	Choke type	Integral Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air clnr. type — Standard	Polyurethane	
	Air clnr. type — Optional	None	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
LeSabre						
452-454 - -	* 340	Manual (3)	Rochester	2GC	1-2 Bbl	1.4375
	340	Automatic	Rochester	2GC	1-2 Bbl	1.4375
	340	Manual (3)	Carter	AFB	1-4 Bbl	1.4375
	340	Automatic	Carter	AFB	1-4 Bbl	1.4375
Wildcat						
464-466 - -	* 401	Manual (3)	Carter	AFB	1-4 Bbl	(a)
	401	Automatic	(b)	(b)	1-4 Bbl	(a)
	425	Automatic	Rochester	4MC	1-4 Bbl	(c)
	425	Automatic	Carter	AFB	2-4 Bbl	(a)
Electra						
482-484 - -	* 401	Automatic	(b)	(b)	1-4 Bbl	(a)
	425	Automatic	Rochester	4MC	1-4 Bbl	(c)
(d)	425	Automatic	Carter	AFB	2-4 Bbl	(a)
Riviera						
494 - -	* 425	Automatic	Rochester	4MC	1-4 Bbl	(c)
(d)		Automatic	Carter	AFB	2-4 Bbl	(a)

(a) Primary - 1.5625 - Secondary 1.6875

(b) Carter AFB Or Rochester 4GC

(c) Primary 1.380 -Secondary - 2.250

(d) Dealer Installed Option only.

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure			
Radiator cap relief valve pressure			15			
Circulation thermostat	Type (choke, bypass)		Choke			
	Starts to open at (°F)		180°			
Water pump	Type (centrifugal, other)		Centrifugal			
	GPM @ 1000 pump rpm	14	17			
	Number of pumps		One			
	Drive (V-belt, other)		V-Belt			
	Bearing type		Double Row			
By-pass recirculation type (internal, external)		External	Internal			
Radiator core type (cellular, tube and fin, other)			Cross Flow			
Cooling system capacity	With heater (qt.)	14.5	18.0			
	Without heater (qt.)	13.7	17.0			
	Opt. equipment-specify (qt.)	14.5	18.3			
Water jackets full length of cylinder (yes, no)			No			
Water all around cylinder (yes, no)			Yes			
Radiator hose	Lower — Number and type (molded, straight)		One Molded			
	Lower — Inside diameter		1.50			
	Upper — Number and type (molded, straight)		One Molded			
	Upper — Inside diameter	1.50	1.62			
	By-pass — Number and type (molded, straight)	One Molded	None			
	By-pass — Inside diameter	.62				
Fan	Number of blades & Spacing	4-(7AC)	4-(5AC)			
	Diameter		18"			
	Ratio-fan to crankshaft rev.	.85 Std (1.15AC)	.92(Std) 1.30(AC)			
	Fan cutout type		Viscous with A/C			
	Bearing type		Single Row Ball			
*Drive belts (indicate belt used by letter)	Fan	A	D (F with A/C)			
	Generator	A	D (F with A/C)			
	Water Pump	A	D (F with A/C)			
	Power Steering	B	E (G with A/C)			
	Air Conditioning	C	F			

	A	B	C	D	E	F	G
* Drive Belt Dimensions							
Angle of V		38°					
Nominal length (SAE)	45.08	55.06	60.66	54.70	51.40	61.90	54.82
Width	.38	.47	.47	.38	.47	.38	.47

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco #558(a)	Delco #570 (b)	
	Voltage Rtg. & Total Plates	12-66		
	SAE Designation & Amp Hr. Rtg	28M-61	3SM-70	
	Location	R.F.Fender Skirt	L. F. Fender Skirt	
	Terminal grounded	Negative		
Generator	Make	Delco-Remy		
	Model	1100691(c)	1100708(d)	
	Type	Diode Rectified Alternator		
	Ratio—Gen. to Cr/s rev.	2.34 (e)	2.52 (f)	
	Gen. cut-in (hot)—engine rpm	10 amps (min.) at idle (g)		
Regulator	Make	Delco-Remy		
	Model	1119515		
	Type	Voltage Control		
	Cutout relay — Closing voltage @ generator rpm	None		
	Cutout relay — Reverse current to open	None		
	Regulated — Voltage	13.6-14.4 at 125° F.		
	Regulated — Current	None		
	Voltage test conditions — Temperature	None		
	Voltage test conditions — Load	Run 15 min. at 10 amps		
	Voltage test conditions — Other	Battery Must be in Circuit		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco-Remy		
	Model	1107374	1107313	
	Rotation (drive end view)	Clockwise		
	Engine cranking speed	160 rpm (Approx.)		
	Test conditions	Engine at Operating Temperature		
	Lock test — Amps	N.A.	290-370	
	Lock test — Volts	N.A.	2.0	
	Lock test — Torque (lb. ft.)	Not Available		
	No load test — Amps	85	120	
	No load test — Volts	10.6		
	No load test — RPM (min.)	3600	4700	
Motor control	Switch (solenoid, manual)	Switch		
	Starting procedure	Place transmission in Neutral or Park. Turn ignition key clockwise to engage starter - Release key as soon as engine starts. NOTE: Extreme care should be exercised in placing selector lever in neutral on manual transmission equipped cars before engaging starter.		

(a) Wet charge - Model 559 Dry

(Continued)

(b) Wet charge - Model 571 Dry
(c) 1100710 with Air Conditioning
(d) 1100709 with Air Conditioning
(e) 2.67 with air conditioning
(f) 2.75 with air conditioning
(g) 15 amps (min.) at idle with air conditioning.

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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	160		166	
	Flywheel tooth face width		.375			

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy			
	Model		1115036	1115161		
	Amps	Engine stopped	3.8 at 12.6 Volts			
		Engine idling	2.3 at 12.6 Volts			
Distributor	Make		Delco-Remy			
	Model		1111144	1111055		
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	550-750	600-700		
		Intermediate points deg. @ rpm	12 @ 1700	15° @ 1400		
		Max deg. @ rpm	32° @ 4600	30° @ 3900		
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	6-8			
		Intermediate points, deg @ in Hg	10.5 @ 12			
		Max. deg. in. Hg.	19.5 Max.			
	Breaker gap (in.)		.013-.019			
	Cam angle (deg.)		30° ± 1°			
	Breaker arm tension (oz.)		19-23			
Timing	Crankshaft deg. @ rpm.		2.5° at 550			
	Mark location		Harmonic Damper			
	Cylinder numbering system (see page 2)		Lt. Bank 1-3-5-7 Rt. Bank 2-4-6-8	Lt. Bank 2-4-6-8 Rt. Bank 1-3-5-7		
	Firing order (see page 2)		1-8-4-3-6-5-7-2	1-2-7-8-4-5-6-3		
Spark Plug	Make and model		AC 44TS	A.C.-44S		
	Thread (mm)		14			
	Tightening torque (lb. ft.)		25-30			
	Gap		.030-.035			
Cable	Conductor type		4000 Ohms per foot (Resistance Cable)			
	Insulation type		Neoprene with inner braid			
	Spark plug protector		Hypalon Boot			

ELECTRICAL—SUPPRESSION

Locations & type	TVRS Cable - Spark Plug and Coil to Dist. Wire .33 MFD condenser at coil .50 MFD condenser at voltage regulator By-Pass on Delcotron. Static Collectors - Front Wheels. Ground Straps - Engine to Dash.

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	AC		
	Trip odometer (yes, no)	No		
Charge indicator—type		Indicator Light		Ammeter Shunt
Temperature indicator—type		"Hot" Only	Ind. Light "Hot" & "Cold"	Gage-Electric
Oil pressure indicator—type		Pressure Switch - Indicator Light		Gage-Electric
Fuel indicator—type		Electrical		
Other				
Ignition switch	Identify positions in order and circuits controlled	Fully counter clockwise--Accessories "On"--Ignition "Off" 1st position clockwise--Ignition & Accessories "Off" locked (a) 2nd position clockwise--Ignition & Accessories "On" (a) 3rd position (Spring Loaded) - "Start"		
	Provision for illumination	Yes		
	Location	Lower Control Panel - Right Side of Steering Column		
Main lighting switch	Identify positions and lamps controlled	1st position out - Park and Taillamps 2nd position out - Headlamps & Taillamps Rotating Knob fully counter clockwise turns dome light "On" & instruments on bright. Clockwise turns domelight "Off" & dims instruments. Fully clockwise turns instrument lights "Off".		
Other light switches	Locations and lamps controlled			
	Stop Light....	Mechanical on brake pedal support brackets.		
	Glove Comp....	In glove compartment.		
Other switches	Locations and devices controlled			
	Direct Signal.	Left Side of steering column.		
	Back-up Light.	Steering column between inst. panel and dash (b)		
	Neutral Safety	Steering column between inst. panel and dash. (c)		
	Wiper.....	Control panel--Left Side.		
	Headlamp Dimmer	Floor Pan--Left of brake pedal		
	Trans Slow Idle	Upper End of Throttle Operating Lever		
	Trans Control	On Manifold, actuated by Carb. Throttle Lever		
Windshield wiper	Make	Delco Appliance		
	Type	Electric		
	Vacuum booster provision	None		
	Washer provision	Yes		
Horn	Type	Solenoid		
	Number used	Two		
	Amp draw (each)			

(a) Push lock cylinder "In" approximately .060" to turn to accessory "On" - Ignition "Off" Position.

(b) Manual trans. cars only. This is a detail of the neutral safety switch on automatic trans. cars.

(c) On column of automatic trans. cars with column shift. In floor shift mech. on automatic trans. cars with console shift.

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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		2-4001 2-4002 - (Horizontal)			
Headlamp beam indicator		1-194			
Parking		2-1157A			
Tail		4-1157		6-1157	
Stop		Same Bulbs as Taillamp			
Direction signal	Front	Same Bulbs as Parking			
	Rear	Same Bulbs as Taillamp			
	Indicator	2-194			
License Plate		1-97			
Oil pressure indicator		1-194			(a)
Charge indicator		1-194			(a)
Instrument		4-194			6-194
Clock		Illuminated by Instrument Bulbs			
Radio		1-1892			

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA. * Extra Cost Item

Ignition lock		1-53			None
Back up		2-1156*			2-1156
Dome		1-1004		2-90	
Glove compartment		1-1893			
Prkg. brake signal	1-94*			1-94	
Luggage compartment		1-89*		1-89	
Underhood		None			
Courtesy Frt Console		N.A.			2-90
Map		1-89			
Tachometer		1-53*			
Heat & A/C		2-1893*			
Comfort Control		2-1893*			
Cruise Control		1-194*			

(a) Oil, water, and charge indicator lighted by instrument panel lamps

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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	15CB (a)	15CB (a)
Headlamp beam indicator	(a)	(a)
Parking lamp	(a)	(a)
Tail lamp	15AGC (b)	15AGW (b)
Stop lamp	10AGC (c)	15AGC (c)
Direction indicator	(c)	(c)
License plate lamp	(b)	(b)
Instrument lamp	4AGC (d) (b)	4AGC (d) (b)
Ignition lamp	(d) (b)	(d) (b)
Back up lamp	10AGC	(c)
Dome lamp	20SFE (e)	20AGW (e)
Clock	7.5AGC (f)	9SFE (f)
Clock lamp	(d) (b)	(d) (b)
Radio	7.5AGC	7.5AGC
Glove compartment lamp	(f)	(f)
Wiper	25AGC (g)	25AGC (g)
Trans. Range	(g)	(g)
Blowers	30AGC	30AGC
Courtesy	(f)	(f)
Cornering	(b)	(b)
Electro Cruise	7.5AGC	6AGA
Rear Defroster	7.5AGC	5AGC
Antenna	10AGC	(f)
Spot Lamp	(b)	(b)
Ligher (Rear)	(e)	(e)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	
		Highest	
	Stop		
	Backup		
	License, rear		
	Directional	Front	
		Rear	
	Headlamp	Inside	
		Outside*	
Distance from C/L of car to center of bulb	Tail	Inside	
		Outside	
	Stop		
	Backup		
	License, rear		
	Directional	Front	
		Rear	
	Headlamp	Inside	
		Outside*	

* If single headlamps are used enter here.

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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Dry		Not Available
Type pressure plate springs		Belleville	Coil	
Effective plate pressure (lb.)		1900-2200	2043	
No. of clutch driven discs		One		
Clutch facing	Material	Woven		
	Outside & inside dia.	10.40 x 6.50	11.0 x 6.50	
	Total eff. area (sq.in.)	103.5	123.7	
	Thickness	.135		
	Engagement cushioning method	Springs		
Release bearing	Type & method of lubrication	Ball - Sealed		
Torsional damping	Methods: springs, friction material	Springs		

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard	Not Available
Manual with overdrive (std. or opt.)	Not Available	
Automatic (std. or opt.)	Optional	Standard

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		3		Not Available
Transmission ratios	In first	2.54	2.42	
	In second	1.50	1.61	
	In third	1.0		
	In fourth	---		
	In reverse	2.63	2.33	
Synchronous meshing, specify gears		1st - 2nd & 3rd		
Shift lever location		Steering Column		
Lubricant	Capacity (pt.)	3.375	3.50	
	Type recommended	A9 Mineral Oil		
	SAE viscosity number — Summer	SAE 80-90		
	SAE viscosity number — Winter	SAE 80-90		
	SAE viscosity number — Extreme cold	SAE 80-90		

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)			Not Available
	Manual lockout (yes, no)			
	Downshift accelerator control (yes, no)			
	Minimum cut-in speed			
	Gear ratio			
	Lubricant	Capacity (pt.) (Overdrive only)		
		Separate filler (yes, no)		
		Type recommended		
		SAE viscosity number	Summer	
			Winter	
			Ext. cold	

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Super Turbine			
Type describe		2-Speed with Torque Converter	3-Speed with Torque Converter		
Method of Selection (Lever, Push Button or other)		Lever	(a)	Lever	(a)
Selector Pattern		P-R-N-D-L	P-R-N-D-L^2-L^1		
List gear ratios Selector Pattern and indicate which are used in each selector position		1.765-Drive-Low & Reverse Direct--1.765-1.000 (Each Times Converter Ratio	D-L^2-L^1- 1st (2.48) D-L^2-L^1- 2nd (1.48) D - Third - (1.00) Reverse - (2.08) (Each Times Converter Ratio		
Max. upshift speeds—drive range		65	1 to 2 (38-48 mph)	2 to 3 (75-85 mph)	
Max. kickdown speeds—drive range		60	2 to 1 (18-28 mph)	3 to 2 (70-80 mph)	
Torque convertor	Number of elements	3			
	Max. ratio at stall	2.45(low)1.80(hi)	2.22 (low angle)	1.80 (high angle)	
	Type of cooling (air, water)	Water			
Lubricant	Capacity—refill (pt.)	19 total--5 drain	22 total -- 6.5 drain		
	Type recommended	(b)			
Special transmission features		Variable pitch stator - High angle at idle and just prior to kick-down detent.			
		Hill braking in L^1 below 40 mph and 2nd in L^2			

DRIVE UNITS—PROPELLER SHAFT

Number used		Two		
Type (exposed, torque tube)		Exposed		
Outer diameter x length* x wall thickness	Manual transmission	Front-2.25x .060 x 30.065 Rear-2.25 x .095 x 41.01	Front-2.25 x .095 x 30.065 Rear-2.25 x .095 x 39.468	Not Available
	Overdrive transmission	Not Available		
	Automatic transmission	Frt.-2.25 x .095 x 30.065 Rear-2.25 x .095 x 39.468	Front 2.25 x .095 x 30.065 Rear 2.25 x .095 x 39.468	Front 2.25 x.095 x 36.309 Rear 2.25 x .095 x 25.30

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

(Continued)

(a) Lever--Steering column mounted, Standard. Lever in console optional.

(b) Automatic transmission fluid identified by the mark "AQ-ATF" followed by a number and suffix "A".

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DRIVE UNITS—PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		Anti-Friction			
	Lubrication (fitting, prepack)		Prepacked			
Universal joints	Make		Saginaw with Double Cardan Center			Saginaw with Dbl Cardan, Ctr.&Rr.
	Number used		4			5
	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)		Banjo - Semi - Floating			
Limited Slip differential, type		Positive Traction *			
Drive Pinion Offset					
No. of differential pinions		2			
Gear ratios (Std. equip.)	Manual transmission	3.36	3.42	Not Available	
	Overdrive transmission	Not Available			
	Automatic transmission	3.08	3.07		3.23
Ring gear O.D. (std. ratio)		8.125	9.375		
Pinion adjustment (shim, other)		Shim			
Pinion bearing adj. (shim, other)		Shim			
Wheel bearing type		Ball			
Lubricant	Capacity (pt.)	2.5	2.0		
	Type recommended	Mil. - L2105B			
	SAE viscosity number — Summer	90			
	SAE viscosity number — Winter	90			
	SAE viscosity number — Extreme cold	90			

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.07	3.08	3.42	3.36
No. of teeth	Pinion	14	12	12	
	Ring gear	43	37	41	

* Optional at extra cost

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DRIVE UNITS—WHEELS

Type & material		Disc - Steel			
Rim (size and flange type)	Std.	15 x 5.50 "K"	15 x 6.00 "L"		
	Opt.	15 x 6.00 "L"			
Attachment	Type (bolt or stud)	Stud			
	Circle diameter	5.00			
	Number and size	Five - .500 - 20			

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.15-15 (2)	8.45-15 (2)	8.85-15 (2)	8.45-15 (2)
	Type - Nylon, etc.	Rayon			
Rev/mile at 50 mph.		754	738	727	738
Inflation press.(cold)	Front	24			
	Rear	24			
Optional tires - size and ply		8.45-15 (2)	8.85-15 (2)	- - -	

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)	Duo - Servo			
Self adjusting (std., opt., N.A.)	Standard			
Hydraulic system type (single, dual, etc.)	Single			
Power brake make & type (remote, integral, etc.)	Delco-Moraine and Bendix (Int.Vac.Susp)			
Effective area (sq. in.)*	156.9			
Gross lining area (sq. in.)**	197.3			
Swept drum area (sq. in.)***	320.5			
Percent brake effectiveness—front	55.9			
Drum Diameter Front	12.007 / 11.997			
Drum Diameter Rear	12.007 / 11.997			
Drum Type and material	Cast Iron	(a)		
Wheel cylinder bore Front	1.125			
Wheel cylinder bore Rear	1.00			
Master cylinder bore	1.00			
Available pedal travel	6.42	3.58	3.70	
Line pressure at 100 lb. pedal load	600	(b)		
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.

(a) Fronts - Aluminum Body with Cast Iron Liners - Rears are Cast Iron.
(b) 500 psi with 30# pedal load @ 20" Hg.

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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Riveted
	Front Shoe	Material		Primary - Molded Extruded
		Size (length x width x thickness)	Front wheel	10.040 x 2.25 x .220
			Rear wheel	10.040 x 2.00 x .220
		Segments per shoe		One
	Rear Shoe	Material		Secondary - Molded Extruded
		Size (length x width x thickness)	Front wheel	12.959 x 2.25 x .254
			Rear wheel	12.959 x 2.00 x .254
		Segments per shoe		One

BRAKES—PARKING

Type of control		"Step On"
Location of control		Left Side at Cowl
Operates on		Rear Shoes
If separate from service brakes	Type (internal or external)	None
	Drum diameter	None
	Lining size (length x width x thickness)	None

FRAME or UNITIZED CONSTRUCTION

Type and description	Perimeter	Cruciform

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

Provision for car leveling		None
Provision for brake dip control		Yes
Provision for acc. squat control		Yes
Special provisions for car jacking		None
Shock absorber front & rear	Type	Direct
	Make	Delco
	Piston dia.	1"
Other special features		None

SUSPENSION—FRONT

Type and description	Coil Spring and Ball Joints

(Continued)

* 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	Coil			
	Material	SAE-9260			
	Size (coil design height & I.D.; bar length x dia.	11.0 x 4.08 167.5 x .670	11.0 x 4.08 160.7 x .695		11.0 x 4.08 150.7 x .700
	Spring rate (lb. per in.)	270	325		360
	Rate at wheel (lb. per in.)	90.5	105.5		115.0
	Design load (lb. @ design height)	2145	2355		2220
Stabilizer	Type (link, linkless, frameless)	Link			
	Material & bar diameter	SAE 1085 - .781			

STEERING

Manual (std., opt., NA)			Standard		Not Available	
Power (std., opt., NA)			Optional		Standard	
Adjustable steering wheel (tilt, swing, other)	Type and description		Tilt (a)			
	(std., opt., NA)		Optional			
Wheel diameter	Manual		16"			
	Power		16"			
Turning diameter	Outside front	Wall to wall (l. & r.)	43.17	45.27		46.5
		Curb to curb (l. & r.)	39.69	43.33		44.0
	Inside rear	Wall to wall (l. & r.)	21.46	25.63		26.6
		Curb to curb (l. & r.)	22.10	26.00		27.2
Outside wheel angle with inside wheel at 20°			16° 28'	17° 0'	18° 13'	17° 42'
Manual	Gear	Type	Recirculating Ball-Nut		Not Available	
		Make	Saginaw		---	
		Ratios – Gear	24:1	28:1	---	
		Ratios – Overall	33.2	33.4	---	
	No. wheel turns		5.8		---	
Power	Type (coaxial, linkage, etc.)		In-Line Rotary Valve			
	Make		Saginaw			
	Gear	Type	Recirculating Ball Nut - Integral with Power Piston			
		Ratios – Gear	17.5 (c)			
		Ratios – Overall	20.6	19.5		19.4
	Pump driven by		Belt			
	Number wheel turns		4.08	4.0		
Linkage	Type		Parallelogram			
	Location (front or rear of wheels, other)		Rear of Wheels			
	Drag link (trans. or longit.)		Transverse			
	Tie rods (one or two)		Two			

(a) Not available with 3-speed manual transmission or manual steering gear.

(b) SAE - 1084

(c) Optional ratio gear (15-1) available in Riviera (16.6 overall).

(Continued)

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STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		10^{o} 43' @ 0^{o} 53'
	Bearings (type)	Upper	Ball Joint Suspension Used
		Lower	Ball Joint Suspension Used
		Thrust	Ball Joint Suspension Used
Wheel alignment (range and preferred)	Caster (deg.)		Positive 1^{o} + - 1/2 *
	Camber (deg.)		+ $3/4^{o}$ Positive 1/4 - $1/4^{o}$ *
	Toe-in (outside tread-inches)		.21 to .31 *
Steering spindle & joint type			Ball Joint
Wheel spindle	Diameter	Inner bearing	1.3748 / 1.3743
		Outer bearing	.8435 / .8430
	Thread size		.8125-16 U.N.F.
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description				Coil Springs		
Drive and torq. taken through (see page 17)				Arms		
Spring	Type			Coil		
	Material			SAE - 9260		
	Size (length x width, coil design height and I.D.; bar length & dia.)			9.00 Design Ht. - 5.53" I.D.		
				136.0x.567	132.5x.570	141.0x.580	132.5x.570
	Spring rate (lb. per in.)			100	105	
	Rate at wheel (lb. per in.)			96	100	
	Design load (lb. at design height)			1020	1035	1085	1010
	Mounting insulation type			Laminated Rubber		
	If leaf	No. of leaves		None		
		Inserts	Type and size	None		
			Material	None		
		Shackle (comp. or tens.)		None		
Stabilizer	Type (link, linkless, frameless)			None		
	Material			None		
Track bar type				None		(a)

(a) Tubular - Rubber Bushed.

* Curb Height

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BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front		
	Rear doors	Front	---	
Type of finish (lacquer, enamel, other)		Acrylic Lacquer		
Hood counterbalanced (yes, no)		Yes		
Hood release control (internal, external)		External		
Vehicle (Serial) No. Location		L. F. Pillar Post		
Engine No. Location				
Theft protection - type		None		
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)				
Backlight glass type (i.e., compound curved - tempered plate, three piece)				
Side glass type (i.e., curved - tempered plate)				
Side glass exposed surface area				
Windshield glass exposed surface area				
Backlight glass exposed surface area				
Total glass exposed surface area				

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

Power windows	Side Windows	Optional (a)		
	Vent Windows	Not Available	(b)	
	Backlight or tailgate	Not Available		
Power seats (specify type as well as availability)				
Reclining front seat back				
Front seat headrest				
Radios (specify type as well as availability)		Optional-Sonomatic or AM-FM Stereo		
Rear seat speaker		Optional		
Power Antenna		Optional		
Clock		Optional	Standard	
Air Conditioner (specify type and availability)		Optional		

(a) Standard on Model 48467
(b) Available with Power Windows Only.
(c) Front face of Lt. Cyl. Block, Below Cyl Head

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MAKE OF CAR BUICK MODEL YEAR 1966 DATE ISSUED 11-2-64 REVISED (e) 4-15-65

WEIGHTS (a)

Model	CURB WEIGHT - POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING * WEIGHT
45269			4027					
46469			4340					
48269			4519					
49487			4316					

Accessories & Equipment Differential Weights

Remarks

* These are weights that are reported to states for licensing purposes.

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(a) Estimated

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