

# AMA Specifications—Passenger Car

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER	BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME	BUICK LESABRE-WILDCAT-ELECTRA 225-RIVIERA
MAILING ADDRESS	1051 E. HAMILTON AVENUE FLINT, MICHIGAN 48550	MODEL YEAR	1969
		ISSUED:	
		REVISED (●)	

**NOTES:**

1. The General 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.

### TABLE OF CONTENTS

Car & Body Dimensions .....	1, 2	Drive Units .....	14	Suspensions .....	21
Engine - Mechanical .....	4	Brakes .....	18, 19	Weights .....	24
Electrical .....	12	Steering .....	20	Index .....	27

<b>BODY - TYPES AND STYLE NAMES -</b>		Body type, style names; use manufacturer's code for series & body style.
<u>SERIES</u>	<u>BODY STYLE</u>	<u>MODEL DESIGNATION</u>
LeSabre	2 Door Pillarless Coupe	45237
	4 Door Hardtop Sedan	45239
	4 Door Thin Pillar Sedan	45269
	2 Door Pillarless Coupe	45437
	4 Door Hardtop Sedan	45439
	2 Door Convertible Coupe	45467
	4 Door Thin Pillar Sedan	45469
Wildcat	2 Door Pillarless Coupe	46437
	4 Door Hardtop Sedan	46439
	4 Door Thin Pillar Sedan	46469
	2 Door Pillarless Coupe	46637
	4 Door Hardtop Sedan	46639
	2 Door Convertible Coupe	46667
Electra "225"	2 Door Pillarless Coupe	48257
	4 Door Hardtop Sedan	48239
	4 Door Thin Pillar Sedan	48269
	2 Door Pillarless Coupe	48457
	4 Door Hardtop Sedan	48439
	2 Door Convertible Coupe	48467
	4 Door Thin Pillar Sedan	48469
Riviera	2 Door Hardtop Coupe	49487

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (\*) \_\_\_\_\_

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:  
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	LESABRE			
		45237	45239	45269	45467
<b>WIDTH</b>					
Track - Front	W101		63.0		
Track - Rear	W102		63.0		
Maximum overall car width	W103		79.5		
Body width at No. 2 pillar	W117				
<b>LENGTH</b>					
Body "O" to front of dash	L 30				
Wheelbase	L101		123.2		
Overall car length	L103		218.5		
Overhang - front	L104		39.1		
Overhang - rear	L105		56.2		
Body upper structure length	L123			110.2	
Body "O" line to $\Phi$ of rear wheel	L127			101.2	
Body "O" line to w/s cowl point	L130				
<b>HEIGHT</b>					
Passenger Distribution (front & rear)			2 - 2		
Trunk/Cargo load (lbs.)					
Overall height	H101		55.3		
Cowl height	H114				
Deck height	H138				
Rocker panel - front	To ground	H112	8.1		
	From front wheel $\Phi$				
Rocker panel - rear	To ground	H111	7.7		
	From rear wheel $\Phi$				
Windshield slope angle	H122		55.0		
<b>GROUND CLEARANCE</b>					
Bumper to ground - front	H102				
Bumper to ground - rear	H104				
Angle of approach	H106				
Angle of departure	H107				
Ramp breakover angle	H147				
Min. running clearance (Specify)	H156				

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (•) \_\_\_\_\_

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:  
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	WILDCAT			
		46437	46439	46469	46667
<b>WIDTH</b>					
Track - Front	W101	63.44			
Track - Rear	W102	63.00			
Maximum overall car width	W103	79.5			
Body width at No. 2 pillar	W117				
<b>LENGTH</b>					
Body "O" to front of dash	L 30				
Wheelbase	L101	123.2			
Overall car length	L103	218.5			
Overhang - front	L104	39.1			
Overhang - rear	L105	56.2			
Body upper structure length	L123			110.2	
Body "O" line to $\text{C}$ of rear wheel	L127			101.2	
Body "O" line to w/s cowl point	L130				
<b>HEIGHT</b>					
Passenger Distribution (front & rear)		2 - 2			
Trunk/Cargo load (lbs.)					
Overall height	H101			55.3	
Cowl height	H114			8.1	
Deck height	H138				
Rocker panel - front	To ground			8.1	
	From front wheel $\text{C}$				
Rocker panel - rear	To ground				
	From rear wheel $\text{C}$				
Windshield slope angle	H122	55.0			
<b>GROUND CLEARANCE</b>					
Bumper to ground - front	H102				
Bumper to ground - rear	H104				
Angle of approach	H106				
Angle of departure	H107				
Ramp breakover angle	H147				
Min. running clearance (Specify)	H156				

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (\*) \_\_\_\_\_

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:

4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	ELECTRA "225"			
		48257	48239	48269	48467
<b>WIDTH</b>					
Track - Front	W101		63.44		
Track - Rear	W102		63.00		
Maximum overall car width	W103		79.5		
Body width at No. 2 pillar	W117				
<b>LENGTH</b>					
Body "O" to front of dash	L 30				
Wheelbase	L101		126.2		
Overall car length	L103		224.9		
Overhang - front	L104		39.1		
Overhang - rear	L105		59.6		
Body upper structure length	L123			106.4	
Body "O" line to $\ominus$ of rear wheel	L127			104.2	
Body "O" line to w/s cowl point	L130				
<b>HEIGHT</b>					
Passenger Distribution (front & rear)			2 - 2		
Trunk/Cargo load (lbs.)					
Overall height	H101		55.8		
Cowl height	H114				
Deck height	H138				
Rocker panel - front	To ground			8.3	
	From front wheel $\ominus$	H112			
Rocker panel - rear	To ground			7.9	
	From rear wheel $\ominus$	H111			
Windshield slope angle	H122		55.0		
<b>GROUND CLEARANCE</b>					
Bumper to ground - front	H102				
Bumper to ground - rear	H104				
Angle of approach	H106				
Angle of departure	H107				
Ramp breakover angle	H147				
Min. running clearance (Specify)	H156				

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED(\*) \_\_\_\_\_

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:  
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.		RIVIERA 49487
<b>WIDTH</b>			
Track - Front	W101		63.44
Track - Rear	W102		63.00
Maximum overall car width	W103		79.2
Body width at No. 2 pillar	W117		
<b>LENGTH</b>			
Body "O" to front of dash	L 30		
Wheelbase	L101		119.0
Overall car length	L103		215.3
Overhang - front	L104		42.0
Overhang - rear	L105		54.3
Body upper structure length	L123		107.8
Body "O" line to $\text{C}$ of rear wheel	L127		95.5
Body "O" line to w/s cowl point	L130		
<b>HEIGHT</b>			
Passenger Distribution (front & rear)			2 - 1
Trunk/Cargo load (lbs.)			
Overall height	H101		53.3
Cowl height	H114		
Deck height	H138		
Rocker panel - front	To ground	H112	7.3
	From front wheel $\text{C}$		
Rocker panel - rear	To ground	H111	6.9
	From rear wheel $\text{C}$		
Windshield slope angle	H122		59.9
<b>GROUND CLEARANCE</b>			
Bumper to ground - front	H102		
Bumper to ground - rear	H104		
Angle of approach	H106		
Angle of departure	H107		
Ramp breakover angle	H147		
Min. running clearance (Specify)	H156		

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (#) \_\_\_\_\_

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	LESABRE			
		45237	45239	45269	45467
<b>FRONT COMPARTMENT</b>					
Effective head room	H61	38.9	38.6	39.3	39.4
Max. eff. leg room - accelerator	L34	41.8			
H Point to Heel point	H30	9.5			
H Point travel	L17				
Shoulder room	W 3	62.5	62.4		62.5
Hip room	W 5	63.8	63.7		63.8
Upper body opening to ground	H50				
<b>REAR COMPARTMENT</b>					
H Point couple distance	L50				
Effective head room	H63	37.6	37.3	37.7	38.0
Min. effective leg room	L51	33.9	38.6	39.9	33.9
H Point to Heel point	H31	11.5	11.7	12.4	11.5
Min. knee room	L48	2.3	4.4	4.5	2.3
Rear Compartment room	L 3	25.2	27.5		24.3
Shoulder room	W 4	61.0	61.5		53.1
Hip room	W 6	55.5	62.9		55.5
Upper body opening to ground	H51	- - -	48.7	49.4	- - -
<b>LUGGAGE COMPARTMENT</b>					
Usable luggage capacity	V 1	18.8			
Liftover height	H195				
Position of spare tire storage		Horizontal			
Method of holding lid open		Torsion Bar (Spring Loaded)			
<b>STATION WAGON - THIRD SEAT</b>					
Shoulder Room	W85	No Wagon - This Series			
Hip room	W86	" "			
Effective leg room	L86	" "			
Effective head room	H86	" "			
Seat facing direction		" "			
<b>STATION WAGON - CARGO SPACE</b>					
Cargo length at floor - front seat	L202	No Wagon - This Series			
Cargo length at belt - front seat	L204	" "			
Cargo width - Wheelhouse	W201	" "			
Opening width at belt	W204	" "			
Maximum cargo height	H201	" "			
Rear opening height	H202	" "			
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	" "			

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED REVISED (0)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	WILDCAT			
		46437	46439	46469	46667
<b>FRONT COMPARTMENT</b>					
Effective head room	H61	38.9	38.6	39.3	39.4
Max. eff. leg room - accelerator	L34		41.8		
H Point to Heel point	H30		9.5		
H Point travel	L17				
Shoulder room	W 3	62.5	62.4		62.5
Hip room	W 5	63.8	63.7		63.8
Upper body opening to ground	H50				
<b>REAR COMPARTMENT</b>					
H Point couple distance	L50				
Effective head room	H63	37.6	37.3	37.7	38.0
Min. effective leg room	L51	33.9	38.6	39.9	33.9
H Point to Heel point	H31	11.5	11.7	12.4	11.5
Min. knee room	L48	2.3	4.4	4.5	2.3
Rear Compartment room	L 3	25.2	27.5		24.3
Shoulder room	W 4	61.0	61.5		53.1
Hip room	W 6	55.5	62.9		55.5
Upper body opening to ground	H51	----	48.7	49.4	----
<b>LUGGAGE COMPARTMENT</b>					
Usable luggage capacity	V 1				
Liftover height	H195				
Position of spare tire storage			Horizontal		
Method of holding lid open			Torsion Bar (Spring Loaded)		
<b>STATION WAGON - THIRD SEAT</b>					
Shoulder Room	W85	No Wagons - This Series			
Hip room	W86		"	"	
Effective leg room	L86		"	"	
Effective head room	H86		"	"	
Seat facing direction			"	"	
<b>STATION WAGON - CARGO SPACE</b>					
Cargo length at floor - front seat	L202	No Wagons - This Series			
Cargo length at belt - front seat	L204		"	"	
Cargo width - Wheelhouse	W201		"	"	
Opening width at belt	W204		"	"	
Maximum cargo height	H201		"	"	
Rear opening height	H202		"	"	
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2		"	"	

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (●) \_\_\_\_\_

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	ELECTRA "225"			
		48257	48239	48269	48467
<b>FRONT COMPARTMENT</b>					
Effective head room	H61	38.3	38.0	39.0	39.0
Max. eff. leg room - accelerator	L34	41.7			
H Point to Heel point	H30	9.7			9.6
H Point travel	L17				
Shoulder room	W 3	62.3	62.2		62.3
Hip room	W 5	63.6	63.7	63.5	63.6
Upper body opening to ground	H50	49.5	49.5	50.4	49.6
<b>REAR COMPARTMENT</b>					
H Point couple distance	L50				
Effective head room	H63	37.6	37.3	37.8	
Min. effective leg room	L51	37.1		40.5	37.1
H Point to Heel point	H31	11.6		12.4	11.6
Min. knee room	L48	4.5		7.0	4.5
Rear Compartment room	L 3	27.9		29.8	27.9
Shoulder room	W 4	60.9	61.2	61.5	52.5
Hip room	W 6				
Upper body opening to ground	H51	55.2	62.9	62.6	55.2
<b>LUGGAGE COMPARTMENT</b>					
Usable luggage capacity	V 1				
Liftover height	H195				
Position of spare tire storage		Horizontal			
Method of holding lid open		Torsion Bar (Spring Loaded)			
<b>STATION WAGON - THIRD SEAT</b>					
Shoulder Room	W85	No Station Wagons - This Series			
Hip room	W86	" "			
Effective leg room	L86	" "			
Effective head room	H86	" "			
Seat facing direction		" "			
<b>STATION WAGON - CARGO SPACE</b>					
Cargo length at floor - front seat	L202	No Station Wagons - This Series			
Cargo length at belt - front seat	L204	" "			
Cargo width - Wheelhouse	W201	" "			
Opening width at belt	W204	" "			
Maximum cargo height	H201	" "			
Rear opening height	H202	" "			
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	" "			



## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED REVISED (a)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	RIVIERA
		49487
<b>FRONT COMPARTMENT</b>		
Effective head room	H61	37.9
Max. eff. leg room — accelerator	L34	41.3
H Point to Heel point	H30	8.6
H Point travel	L17	
Shoulder room	W 3	58.8
Hip room	W 5	62.4
Upper body opening to ground	H50	49.4
<b>REAR COMPARTMENT</b>		
H Point couple distance	L50	
Effective head room	H63	37.2
Min. effective leg room	L51	36.7
H Point to Heel point	H31	10.6
Min. knee room	L48	5.0
Rear Compartment room	L 3	27.5
Shoulder room	W 4	56.1
Hip room	W 6	54.7
Upper body opening to ground	H51	----
<b>LUGGAGE COMPARTMENT</b>		
Usable luggage capacity	V 1	10.3
Liftover height	H195	
Position of spare tire storage		Horizontal
Method of holding lid open		Torsion Bar (Spring Loaded)
<b>STATION WAGON — THIRD SEAT</b>		
Shoulder Room	W85	No Station Wagon - This Series
Hip room	W86	" "
Effective leg room	L86	" "
Effective head room	H86	" "
Seat facing direction		" "
<b>STATION WAGON — CARGO SPACE</b>		
Cargo length at floor — front seat	L202	No Station Wagon - This Series
Cargo length at belt — front seat	L204	" "
Cargo width — Wheelhouse	W201	" "
Opening width at belt	W204	" "
Maximum cargo height	H201	" "
Rear opening height	H202	" "
Cargo volume index (cu. ft.) W4 x L204 x H201 172B	V2	" "

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED <sup>(\*)</sup>

## POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		
LeSabre	350	2 Bbl.	9.0	230 @ 4400	350 @ 2400	Manual (3)	3.23 (3.91 S.C.O.) No Perf. or Economy
	350	2 Bbl.	9.0	230 @ 4400	350 @ 2400	Automatic	2.93 Std. (2.73* Econ.) (3.23 Perf.) (3.91 or 3.42 S.C.O.)
	350	4 Bbl.	10.25	280 @ 4600	375 @ 3200	Automatic	2.93 Std. (2.73* Econ.) (3.23 Perf.) (3.91 or 3.42 S.C.O.)
Wildcat	430	4 Bbl.	10.25	360 @ 5000	475 @ 3200	Manual (3)	3.07 Std. (2.78 Econ.) (3.42 Perf.) (3.91 S.C.O.)
	430	4 Bbl.	10.25	360 @ 5000	475 @ 3200	Automatic	3.07 Std. (2.78 Econ.) (3.42 Perf.) (3.91 S.C.O.)
Electra "225"	430	4 Bbl.	10.25	360 @ 5000	475 @ 3200	Automatic	2.78 Std. (2.56 Econ.) (3.42 Perf.) (3.91 S.C.O.)
Riviera	430	4 Bbl.	10.25	360 @ 5000	475 @ 3200	Automatic	3.07 Std. (3.42 Perf.) (3.91 S.C.O.)

\* Not Available with A/C.

# AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (*)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

## ENGINE—GENERAL

Type, no. cyls., valve arr.	V8 - 90° - In Head	
Bore and stroke (nominal)	3.800 x 3.850	4.1875 x 3.900
Piston displacement, cu. in.	350	430
Bore spacing (C to C)	4.240	4.750
No. system (front to rear)	L. Bank R. Bank	1-3-5-7 2-4-6-8
Firing order	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)	9.0	10.25
Cylinder Head Material	Cast Iron	
Cylinder Block Material	Cast Iron	
Cyl. Sleeve-Wet, dry, none	None	
Number of mtg. points	Front Rear	Two One
Engine installation angle	6° 15'	5° 6'
Taxable horsepower	Dia <sup>2</sup> xNo. Cyl. 2.5 46.2	56.1
Publishing max. bhp* @ eng. RPM	230 @ 4400	360 @ 5000
Publishing max. torque* (lb. ft. @ RPM)	350 @ 2400	475 @ 3200
Recommended fuel regular - premium	Regular	Premium

## ENGINE—PISTONS

Material	Cast Aluminum Alloy		
Description and finish	Cam Ground - Transverse Slot - Divorced Skirt,		
Weight (piston only) oz.	24.352 ± .064		
Clearance (limits)	Top land	.027 - .036	
	Skirt	Top	.0008 - .0014
		Bottom	.0013 - .0029
Ring groove depth	No. 1 ring	.1930 - .1855	
	No. 2 ring	.1955 - .1880	
	No. 3 ring	.1955 - .1880	
	No. 4 ring	Not Used	

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

## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK		MODEL YEAR	1969	DATE ISSUED	REVISED (a)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 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.	Not Used	
Compression	Description - material, coating, etc.	#1 - Cast Iron - Molybdenum Coated #2 - Cast Iron - Lubrited	
	Width	.077 - .078	
	Gap	.013 - .023	
Oil	Description - material, coating, etc.	SAE 1070 (No Chrome)	SAE 1070 Steel - Chrome Plated
	Width	.023 - .025	
	Gap	.015 - .055	
Expanders	Steel Oil Ring - Abutment Type		

## ENGINE - PISTON PINS

Material	Extruded SAE 1018		
Length	3.060	3.520	
Diameter	.9394 - .9397	.9994 - .9997	
Type	Locked in rod, in piston, floating, etc.	Pressed-In-Rod	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.0001 - .0004 Select	
	In rod	.00075 - .00125 Select - Press	
Direction & amount offset in piston	.040 (a)	.060 (a)	

## ENGINE - CONNECTING RODS

Material	Pearlitic Malleable Iron	Forged SAE 1141 Steel	
Weight (oz.)	22.8	26.6	
Length (center to center)	6.385	6.598 - 6.602	
Bearing	Material & Type	Steel Backed - M/400 Aluminum - Removable	
	Overall length	.737	.820
	Clearance (limits)	.0002 - .0023	
	End play	.006 - .014	.005 - .012

(a) Major Thrust Side.

## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK		MODEL YEAR	1969	DATE ISSUED	REVISED (a)	
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487			

## ENGINE - CRANKSHAFT

Material	Nodular Iron			
Vibration damper type	Rubber Absorption			
End thrust taken by bearing (No.)	Three			
Crankshaft end play	.003 - .009			
Main bearing	Material & type	Steel Backed M/400 Alum. - (#5 - Durex M/100A) Removable		
	Clearance	.0004 - .0015	.0007 - .0018	
	Journal dia. and bearing overall length	No. 1	2.9995 x .864	3.2500 x .865
		No. 2	2.9995 x .864	3.2500 x .865
		No. 3	2.9995 x 1.057	3.2500 x 1.057
		No. 4	2.9995 x .864	3.2500 x .865
		No. 5	2.9995 x .864	3.2500 x 1.143
		No. 6	None	
No. 7		None		
Dir. & amt. cyl. offset	None			
Crankpin journal diameter	2.000	2.249 - 2.250		

## ENGINE - CAMSHAFT

Location	Above Crankshaft at Center of "V"			
Material	Cast Iron Alloy			
Bearings	Material	Steel Backed Babbitt		
	Number	Five		
	Gear or chain	Chain		
Type of Drive	Crankshaft gear or sprocket material	Sintered Iron		
	Camshaft gear or sprocket material	Alumirum - Nylon Coated		
	Timing chain	No. of links	54	48
		Width	.875	.739
		Pitch	.375	.500

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard		
Valve rotator, type (intake, exhaust)	None		
Rocker ratio	1.55	1.59	
Operating tappet clearance (indicate hot or cold)	Intake	None	
	Exhaust	None	

(Continued)

## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (•)
MODEL		LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487

## ENGINE—VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	24	14	
		Closes (°ABC)	78	104	
		Duration - deg.	282	298	
	Exhaust	Opens (°BBC)	70	88	
		Closes (°ATC)	38	47	
		Duration - deg.	288	315	
	Valve opening overlap		62	61	
Intake	Material		SAE - 1041 (c)		
	Overall length		5.024 - 4.994	5.155 - 5.125	
	Actual overall head dia.		1.880 - 1.870	2.005 - 1.995	
	Angle of seat & face		45°		
	Seat insert material		None		
	Stem diameter		(a)		
	Stem to guide clearance		(b)		
	Lift (@ zero lash)		.3766	.4187	
	Outer spring press. & length	Valve closed (lb.@in.)	75 ± 5 @ 1.727	72 ± 5 @ 1.890	
		Valve open (lb.@in.)	180 ± 7 @ 1.340	177 ± 7 @ 1.450	
	Inner spring press. & length	Valve closed (lb.@in.)	None		
		Valve open (lb.@in.)	None		
	Exhaust	Material		21 - 2 (c)	N82152 - (21-4N) (c)
		Overall length		5.044 - 5.014	5.175 - 5.145
Actual overall head dia.		1.505 - 1.495	1.630 - 1.620		
Angle of seat & face		45°			
Seat insert material		None			
Stem diameter		.3725 ± .0005 Top - .3715 ± .0005 Bottom			
Stem to guide clearance		.0015 - .0035 Top - .0025 - .0045 Bottom			
Lift (@ zero lash)		.3840	.4482		
Outer spring press. & length		Valve closed (lb.@in.)	75 ± 5 @ 1.727	72 ± 5 @ 1.890	
		Valve open (lb.@in.)	180 ± 7 @ 1.340	177 ± 7 @ 1.450	
Inner spring press. & length		Valve closed (lb.@in.)	Not Used		
	Valve open (lb.@in.)	Not Used			

## ENGINE—LUBRICATION SYSTEM

Type of lubrica- tion (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

(Continued)

- (a) .3725 ± .0005 - Max. allowable taper to be .0003 with smallest dia. at head end.  
 (b) .0015 - .0035 & .0003 Max. taper.  
 (c) Aluminized face and chrome flashed stem.

# AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED(*)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

**ENGINE – LUBRICATION SYSTEM (cont.)**

Oil pump type		Gear
Normal oil pressure (lb. engine rpm)	37 @ 2400	40 @ 2400
Oil press. sending unit (elect. or mech.)	Electrical	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part., other)	Full Flow	
Filter replacement (element, complete)	Element & Can	
Capacity of oil case, less filter-refill (qt.)	4	
Oil grade recommended (SAE viscosity and temperature range)	<u>Anticipated Lowest Temp.</u>	<u>Use SAE Viscosity</u>
	Above 32°F	10W-30, 20W or 20
	Below 32°F to Zero F	10W-30, 10W-40 or 10W
	Below Zero F	5W-20, 5W-30 or 5W
Engine Service Reqmt. (MM, MS, etc.)	Passing Car Maker Test GM6041M	

**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 with Straight-Thru Resonator	(a)
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.25 - .084 (b)
	Main	2.00 - .076 (b)
Tail pipe dia. (O.D. & wall thickness)	2.00 - .048	2.00 - .060

**ENGINE – CRANKCASE VENTILATION SYSTEM**

Type (ventilates to atmos., induction system, other)	Standard Optional	Closed Induction System None
Control Unit	Make and model	A.C.
	Location	Intake Manifold (Lifter Cavity) Rear
	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 Normally with Additional Discharge into Air Cleaner under Excessive Blow-By Conditions
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner
	Flame arrestor (screen, check valve, other)	Check Valve and Screen

- (a) Two reverse flow and two reverse flow resonators.
- (b) Laminated tubing.

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED <sup>(\*)</sup> \_\_\_\_\_

	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487
--	------------------	------------------	---------------------------	------------------

**ENGINE – EXHAUST EMISSION CONTROL**

Type (Air injection, engine modifications, other)		Controlled Combustion		
Air Injection Pump	Type	Not Used		
	Displacement			
	Drive ratio			
	Drive type			
	Relief valve (type)			
	Filter (describe)			
Air Injection System	Air distribution (head, manifold, etc.)	None		
	Point of entry			
	Injection tube I.D.			
	Check valve type			
Carburetor	Backfire protection (type)			
	Make	Rochester		
	Model	2GV	4MV	
	Barrel size			
	Idle speed	600	550	
	Drive			
	Neutral			
	Idle A/F mixture			
Distributor	Aux. Adv. Systems (type)	None		
	Make	Delco-Remy		
	Model	1111938	1111335	
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	850	1100
		Intermed. points deg. @ rpm	21° @ 1800	21° @ 1800
		Max. deg. @ rpm	32° @ 4600	32° @ 4600
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	..... 7"	
		Intermed. points deg. @ in. Hg	..... 16 @ 15"	
		Max. deg. @ in.	..... 19.5 @ 25"	
	Vacuum Source	Intake Manifold Ported to Atmosphere at Idle		
Timing - Crank degrees @ rpm	0° BTC			
Cooling System				
Exhaust System	T.V.S Switch (Auto. Trans. Only) to Advance Timing when Coolant Becomes "Hot".			



# AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (*)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

## ENGINE - FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor				
Fuel Tank	Refill capacity (U.S. gals.)	25 (Approx.)		21 (Approx.)		
	Filler location	Rear				
Fuel Pump	Type (elec. or mech.)	Mechanical		Electrical		
	Locations	Engine		Fuel Tank		
	Pressure range	4.25-5.75 @ Otl. (b)	5.5-7.0 @ Otl. (c)			
Vacuum booster (std., optional, none)		None				
Fuel Filter	Type	Pleated Paper		Woven Plastic		
	Locations	Carburetor Inlet		Tank		
Carburetor	Choke type	Remote (Manifold)		Automatic		
	Intake manifold heat control (exhaust or water)	Exhaust				
	Air cleaner type	Standard	Oiled Paper Element			
		Optional	Heavy Duty Dual Stage Element			
	Idle speed (spec. neutral or drive)	Manual	700 (Neutral) A/C Same with A/C "Off"			
Automatic		600	550 (Drive)	A/C Same with A/C "Off"		
	Idle A/F mix.	14.5		14.6		

## CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
LeSabre Series 452-454	350	Manual (3)	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	2 GV	1-4 Bb1	
Wildcat Series 464-466	430	Manual (3)	Rochester	4 MV	1-4 Bb1	(a)
	430	Automatic	Rochester	4 MV	1-4 Bb1	(a)
Electra "225" Series 482-484	430	Automatic	Rochester	4 MV	1-4 Bb1	(a)
Riviera Series 494	430	Automatic	Rochester	4 MV	1-4 Bb1	(a)

(a) Primary - 1.375; Secondary - 2.250.

(b) 5.5-7.0 @ Outlet with V.R. Blocked (A/C Cars).

(c) With Vapor Return Blocked.

# AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (*)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

### 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)	190			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM @ 1000 pump rpm	10			15
	Number of pumps	One			
	Drive (V-belt, other)	V-Belt			
	Bearing type	Double Row			
By-pass recirculation type (inter., ext.)		External			
Radiator core type (cellular, tube and fin, other)		Cross-Flow			
Cooling system capacity	With heater (qt.)	13.20			16.7
	Without heater (qt.)	12.34			15.8
	Opt. equipment-specify (qt.)	13.55 (A/C)			17.0 (A/C)
Water jackets full length of cyl. (yes, no)		No			
Water all around cylinder (yes, no)		Yes			
Radiator hose	Lower	Number and type (molded, straight)	One Molded		
		Inside diameter	1.50		
	Upper	Number and type (molded, straight)	One Molded		
		Inside diameter	1.50		
	By-pass	Number and type (molded, straight)	One Molded		
		Inside diameter	.62		
Fan	Number of blades & spacing	4-65 x 115° (a)	4-65 x 115° (5 A/C)	7-	
	Diameter	18.0	18" (20" A/C)		
	Ratio-fan to crankshaft rev.	.85 (1.15 A/C)	.92 (1.30 A/C)		
	Fan cutout type	Thermo - Clutch with A/C			
	Bearing type	Single Row Ball			
* Drive belts (indicate belt used by letter)	Fan	A (G - A/C)	B		
	Generator or alternator	A (G - A/C)	B		
	Water Pump	A (G - A/C)	B		
	Power Steering	C	D		
	Air Conditioning	E	F	H	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	38°	38°	38°	38°	38°	38°	38°			
Nominal length (SAE)	45.5	48.9	39.0		61.50	64.00	46.0	62.76			
Width	.38	.38	.47	.47	.47	.47	.38	.47			

(a) 7 Blades with A/C.

## AMA Specifications—Passenger Car

MAKE OF CAR	Buick	MODEL YEAR	1969	DATE ISSUED	REVISED (e)
MODEL		LFSABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487

## ELECTRICAL - SUPPLY SYSTEM

Battery	Make and Model	Delco #R58	Delco #Y70	
	Voltage Rtg. & Total Plates	12-66		
	SAE Designation & Amp. Hr. Rtg.	9MJ3F-61	9MJ6A-70	
	Location	Right Front Fender Skirt	Left Front Fender Skirt	
	Terminal grounded	Negative		
Generator or Alternator	Make	Delco - Remy		
	Model	1100691 (a)		
	Type and rating	Diode Rectified Alternator (42 amps) (a)		
	Output at engine idle (neutral)	15 amps Min. (b)		
	Ratio—Gen. to Cr/s rev.	2.29 (c)	2.47 (d)	
Regulator	Make	Delco - Remy		
	Model	1119515		
	Type	Voltage Control		
	Cutout relay	Closing voltage - generator rpm	None	
		Reverse current to open	None	
	Regulated	Voltage	13.6 to 14.4 @ 125°	
		Current	None	
	Voltage test conditions	Temperature	None	
		Load	Run 15 Min. @ 10 Amps (Max.)	
		Other	Battery Must Be in Circuit	

## ELECTRICAL - STARTING SYSTEM

Starting Motor	Make	Delco - Remy			
	Model	1108391	1108392		
	Rotation (drive end view)	Clockwise			
Motor control	Switch (solenoid, manual)	Switch - Solenoid			
	Starting procedure	(e)			
Motor Drive	Engagement type	Solenoid with Over-Running Clutch			
	Pinion meshes (front, rear)	Front			
	Number of teeth	Pinion	9		
		Flywheel	Manual	160	Not Used
	Auto.		160	166	
Flywheel tooth face width	Manual	375	Not Used		
	Auto.	375			

(a) #1100774 (55 amps) with A/C

(b) 20 amps Min. with A/C

(c) 2.66 with A/C

(d) 2.93 with A/C

(e) Manual - Place selector lever in Neutral &amp; depress clutch pedal

Automatic - Place transmission selector lever in neutral or park. Turn ignition key clockwise to engage starter. Release key as soon as engine starts.

## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (a)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

## ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.		Standard		
	Transistorized - Std., Opt., N.A.		Not Available		
	Other (specify)				
Coil	Make		Delco - Remy		
	Model		1115247		
	Amps	Engine stopped	3.8 @ 12.6V		
		Engine idling	2.3 @ 12.6V		
Distributor	Make		Delco - Remy		
	Model		1111938	1111335	
	Cent'gal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	850	1100	
		Intermediate points deg.@rpm	21° @ 1800	21° @ 1800	
		Max. deg.@rpm		32° @ 4600	
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)		6 - 8	
		Intermediate points, deg.@in. Hg.		16.0 @ 15	
		Max. deg. in. Hg.		19.5 @ 25	
	Breaker gap (in.)		.013 - .019		
	Cam angle (deg.)		30 ± 1		
Breaker arm tension (oz.)		19 - 23			
Timing	Crankshaft deg.@rpm		0° BTC @ 550		
	Mark location		Harmonic Damper		
Spark Plug	Make		A.C.		
	Model		R45TS	R44TS	
	Thread (mm)		14		
	Tightening torque (lb. ft.)		15		
Gap		.030			
Cable	Conductor type		2000 ohms per Foot (Resistance Cable)		
	Insulation type		Neoprene (with Inner Braid)		
	Spark plug protector		Hypalon Boot		

## ELECTRICAL - SUPPRESSION

Locations & type	(a)
------------------	-----

- (a) TVRS Cable - Spark Plugs & Coil to Distributor  
 Condensers at Coil, Voltage Regulator & Delcotron  
 Ground Straps - Engine to Dash & Resistor Spark Plugs.

## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (a)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

## ELECTRICAL — INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	Mechanical (Eddy Current)
	Trip odometer (yes,no)	No
Charge indicator — type		Indicator Light
Temperature indicator — type	"Hot" Only	(a)
Oil pressure indicator — type		Indicator Light - (Pressure)
Fuel indicator — type		Electrical
Other		
Wind-shield wiper	Type — Standard	Electric - (Two Speed)
	Type — Optional	None
Wind-shield washer	Type — Standard	Electric Engagement Mech. Piston Pump
	Type — Optional	None
Horn	Type	Solenoid
	Number used	Two
	Amp draw (each)	4.5 - 5.5

## DRIVE UNITS — CLUTCH (Manual Transmission)

Make & type	Dry	Not Available
Type pressure plate springs	Belleville	
Total spring load (lb.)	1900 - 2100   2450 - 2750	
No. of clutch driven discs	One	
Clutch facing	Material	Woven
	Outside & inside dia.	10.4 x 6.50   11.0 x 6.50
	Total eff. area (sq.in.)	103.5   123.7
	Thickness	.135   .140
	Engagement cushioning method	Springs
Release bearing	Type & method of lubrication	Ball Sealed
Torsional damping	Methods: springs, friction material	Springs

(a) Indicator (Engine Hot) Metal Temp. Sensing Switch.

## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (*)
MODEL		LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487

## DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard	Not Available
Manual 4-speed (std. or opt.)	Not Available	
Manual with overdrive (std. or opt.)	Not Available	
Automatic (std. or opt.)	Optional	Standard

## DRIVE UNITS – MANUAL TRANS.

Number of forward speeds	Three	Not Available
Transmission ratios	In first	2.42
	In second	1.61
	In third	1.00
	In fourth	-----
	In reverse	2.33
Synchronous meshing, specify gears	All Forward	
Shift lever location	Steering Column	
Lubricant	Capacity (pt.)	3.5
	Type recommended	(a)
	SAE viscosity number	SAE-80
		SAE-80
	Extreme cold	SAE-80

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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
	Extreme cold	

(a) Multi - Purpose Gear Lubricant ( MIL-L-2105B)

# AMA Specifications—Passenger Car

MAKE OF CAR		BUICK		MODEL YEAR		1969		DATE ISSUED		REVISED (e)	
MODEL		LESABRE 45269		WILDCAT 46469		ELECTRA "225" 48269		RIVIERA 49487			
<b>DRIVE UNITS—AUTOMATIC TRANSMISSION</b>											
Trade name		Super Turbine									
Type describe		Two Speed		Three Speed							
		Each with Torque Converter									
Selector location		Steering Column (f)									
List gear ratios Selector Pattern and indicate which are used in each selector position											
Max. upshift speed—drive range		44 (a) 78 (b)		48 (a) 86 (b)		44 (a) 78 (b)					
Max. kickdown speed—drive range		25 (c) 72 (d)		28 (c) 80 (d)		25 (c) 72 (d)					
Torque converter		Number of elements		Three							
		Max. ratio at stall		2.05							
		Type of cooling (air, liquid)		Water							
		Nominal diameter									
Lubricant		Capacity—refill (pt.)		23 Total-7 Drain							
		Type recommended		"DEXRON" (R) Automatic Trans. Fluid							
Special transmission features											
<b>DRIVE UNITS—PROPELLER SHAFT</b>											
Number used		Two									
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Exposed									
Outer diam. x length* x wall thickness		Manual 3-speed trans.		Not Available							
		Manual 4-speed trans.		Not Available							
		Overdrive transmission		Not Available							
		Automatic transmission								Frt-2.25x.095x 36.209 Rr-2.25x .095x25.30 (e)	

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

(Continued)

- (a) 1 - 2 Shift  
 (b) 2 - 3 Shift  
 (c) 2 - 1 Shift

- (d) 3 - 2 Shift  
 (e) Uses Rubber Biscuit Drive in Rear  
 (f) Console Shift Optional on Wildcat and Riviera

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (\*)

<b>MODEL</b>	<b>LESABRE</b> 45269	<b>WILDCAT</b> 46469	<b>ELECTRA</b> "225" 48269	<b>RIVIERA</b> 49487
--------------	-------------------------	-------------------------	----------------------------------	-------------------------

**DRIVE UNITS – PROPELLER SHAFT (cont.)**

<b>Inter-mediate bearing</b>	Type (plain, anti-friction)	Anti-Friction		
	Lubrication (fitting, prepack)	Pre-Packed		
<b>Slip Yoke</b>	Type			
	Number of teeth	27 O.D. (Man.) 27 O.D. (Auto.)	28 Teeth (Man.) 32 Teeth (Auto)	32 Teeth 24 P.D.
	Spline O.D.	1.1750/1.145 (M) 1.166/1.150 (A)	1.373/1.357 (A)	1.373-1.357
<b>Universal joints</b>	Make and Mfg. No.	Saginaw with Double Cardan Center		(a)
	Number used	4		5
	Type (ball and trunnion, cross)	Cross		
	Rear attach. (u-bolt, clamp, etc.)	U-Bolts		14-7/16" Bolts
	Bearing	Type (plain, anti-friction)	Needle (Anti-Friction Type)	
Lubric. (fitting, prepack)		Pre-Packed		
Drive taken through (torque tube or arms, springs)		Arms		
Torque taken through (torque tube or arms, springs)		Arms		

**DRIVE UNITS – AXLE**

Type (front, rear)	Rear			
Description	Salisbury Hypoid - Semi-Floating			
Limited Slip differential, type	Positive Traction-(Optional)			
Drive Pinion Offset	1.750			
No. of differential pinions	2			
Pinion adjustment (shim, other)	Shim			
Pinion bearing adj. (shim, other)	Collapsible Spacer			
Wheel bearing type	Ball			
<b>Lubricant</b>	Capacity (pt.)	2.90	4.25	
	Type recommended	MIL-L-2105B		
	SAE viscosity number	Summer	80	
		Winter	80	
	Extreme cold	80		

**AXLE RATIO TOOTH COMBINATIONS**

(See page 3 for axle ratio usage)

<b>Axle ratio</b>	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
	3.23	3.07	2.78	3.91	2.93	2.73	3.42	2.56
<b>No. of teeth</b>	Pinion	13	14	14	11	14	15	12
	Ring gear	42	43	39	43	41	41	41
<b>Ring Gear O.D.</b>	8.500			9.375				

(a) Saginaw with Double Cardan Center and Rear

- |                              |   |                |                |                   |
|------------------------------|---|----------------|----------------|-------------------|
| <b>LESABRE</b>               | <b>WILDCAT (j)</b>                        | <b>ELECTRA</b> | <b>RIVIERA</b> | <b>RIVIERA GS</b> |
| (b) Std. (3-Spd) (Perf-Auto) | (c) Std.                                  | (d) Std.       | (c) Std.       | (h) Std.          |
| (e) SCO (3-Spd. & Auto.)     | (d) Econ.                                 | (i) Econ.      | (h) Perf.      | (e) SCO           |
| (f) Std. (Automatic)         | (h) Perf.                                 | (h) Perf.      | (e) SCO        |                   |
| (g) Econ. (Automatic)        | (e) SCO                                   | (e) SCO        |                |                   |
| (h) SCO (Automatic)          | (j) Same Ratios (Manual (3) or Automatic) |                |                |                   |



## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK			MODEL YEAR	1968	DATE ISSUED	REVISED (a)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487			

## DRIVE UNITS - WHEELS

Type & material	Disc - Steel			
Rim (size & flange type)	Std.	15 x 6.00 "JK"		
	Opt.	None		
Attachment	Type (bolt or stud)	Stud		
	Circle diameter	5.00		
	Number and size	Five - .500-20		
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487

## DRIVE UNITS - TIRES

Standard	Size, ply rating, & ply	8.55 - 15	8.85-15 (a)	8.55-15 (a)	
	Type (bias, radial, etc.)	Bias Angle			
	Full rated Inflation Press.	Front	24		
		Rear	26		
	Rev./Mile at 50 MPH	739	729	737	
Optional	Size, ply rating, & ply	H70-15 Wide Oval - (Export) 8.85-15 (a) 225R15 Radial Tires	225R15 Radial Ply 8.85-15 4 Ply Nylon (Export)	225R15 Radial Ply 8.45-15 4 Ply Nylon (Export)  H70-15 (Export)	
		8.45-15 4 Ply Nylon (Export)			

## 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)	Not Used	
	Drum diameter	Not Used	
	Lining size (length x width x thickness)	Not Used	

(a) 2-Ply with 4-Ply Rating

## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (*)
		LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
MODEL		45269	46469	48269	49487

## BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Drum (a)			
Self adjusting (std., opt., N.A.)		Standard			
Special Valving	Type (proportion, delay, metering, other)				
Power brake make & type (remote, int., etc.)	Std.	Delco-Moraine (Int. Vac. Susp.)			
	Opt.	Front Power Disc			
Effective area (sq. in.) *		156.9			
Gross lining area (sq. in.) **		193.3			
Swept area (sq. in.) ***		320.5			
Front to Rear Effectiveness Relationship		58.5		61.5	
Drum	Diameter (nominal)	Front	12.007 - 11.997		
		Rear	12.007 - 11.997		
	Type and material	Composite Cast Iron	Fronts - Aluminum with Cast Iron Liner Rears - Composite Cast Iron		
Rotor	Outer working diameter				
	Inner working diameter				
	Working width				
	Material & type (vented/solid)				
Wheel cylinder bore	Front		1.875		
	Rear		1.000	.9375	
Master Cylinder	Bore		1.000		
	displacement distribution	Front	64.0	61.5 (b)	
		Rear	36.0	38.5	
	Pedal arc ratio				
Line pressure at 100 lb. pedal load		740 psi (c)		1100psi	
Shoe Clearance	Front		.015		
	Rear		.015		
Brake lining	Bonded or riveted		Riveted		
	Front Wheel	Material		Molded Extruded	
		Size (length x width x thickness)	Prim. or out-board	9.90 x 2.25 x .220	
			Second. or in-board	12.85 x 2.25 x .316	
		Segments per shoe		One	
	Rear Wheel	Material		Molded Extruded	
		Size (length x width x thickness)	Prim. or out-board	9.90 x 2.00 x .220	
			Second. or in-board	12.85 x 2.00 x .316	
		Segments per shoe		One	

\* Excludes rivet holes, grooves, chamfers, etc. \*\* Includes rivet holes, grooves, chamfers, etc.

\*\*\* Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

- (a) Front Power Disc Type Optional  
 (b) 74.5 when Optional Front Power Disc Equipped  
 (c) 880 psi when Optional Power Brakes Equipped

## AMA Specifications—Passenger Car

MAKE OF CAR		BUICK		MODEL YEAR		1969		DATE ISSUED		REVISED (*)		
MODEL		LESABRE		WILDCAT		ELECTRA "225"		RIVIERA				
		45269		46469		48269		49487				
<b>STEERING</b>												
Manual (std., opt., NA)		Standard				Not Available						
Power (std., opt., NA)		Optional				Standard						
Adjustable steering wheel (tilt, swing, other)		Type and description (std., opt., NA)		Tilt (a)		Optional		Standard				
Wheel diameter		Manual		16.0		Power		16.0				
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)										
		Curb to curb (l. & r.)										
	Inside rear	Wall to wall (l. & r.)										
		Curb to curb (l. & r.)										
Manual	Gear	Type		Recirculating Ball-Nut		Not Available						
		Make		Saginaw		Not Available						
		Ratios	Gear		28.0		28.0		Not Available			
			Overall		34.3		34.3		Not Available			
	No. wheel turns (stop to stop)		6.7		Not Available							
Power	Type (coaxial, linkage, etc.)		In-Line Rotary Valve									
	Make		Saginaw									
	Gear	Type		Recirculating Ball-Nut - Integral with Power Piston								
		Ratios	Gear		16.0 - 12.2 Variable Ratio							
			Overall		21.4		19.6 - 14.0		17.4 - 11.6			
	Pump driven by		Belt									
No. wheel turns (stop to stop)		4.2		3.3		2.9						
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									
Steering Axis	Inclination at camber (deg.)		10° 43' @ 0° 53'									
	Bearings (type)	Upper		Ball Joint Suspension Used								
		Lower		Ball Joint Suspension Used								
		Thrust		Ball Joint Suspension Used								
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		+45' ± 30' (Curb Height)		+1° ± 30'							
	Camber (deg.)		0° ± 30'		+15° ± 30'							
	Toe-in (outside track inches)		.25 ± .05		.20 ± .05							
Steering spindle & joint type												
Wheel Spindle	Diameter	Inner bearing		1.3748/1.3743								
		Outer bearing		.8435/ .8430								
	Thread size		.750 - 20 UNEF									
	Bearing type		Tapered Roller									

(a) Not Available with Manual Transmission

# AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (*)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

### SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Yes (Optional)	
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.	1.00
Other special features	None	

### SUSPENSION – FRONT

Type and description	Coil Springs & Ball Joints			
Spring	Type	Coil		
	Material	SAE - 9260		
	Size (coil design height & I.D. bar length x dia.)	11.00 Design Ht. - 4.05 I.D.		
	Spring rate (lb. per in.)	290	325	345
	Rate at wheel (lb. per in.)			
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diameter	.812 (b)	.844 (b)	.812 (b)

### SUSPENSION – REAR

Type and description	Coil Springs			
Drive and torque taken through	Arms			
Spring	Type	Coil		
	Material	SAE - 9260		
	Size (length x width, coil design height & I.D.; bar length & dia.)	9.00 Design Ht. - 5.50 I.D.		
	Spring rate (lb. per in.)	100	105	100
	Rate at wheel (lb. per in.)			
	Mounting insulation type	Rubber		
	If leaf	No. of leaves	None	
Stabilizer	Shackle(comp. or tens.)	None		
	Type (link, linkless, frameless)	None		
	Material	None		
Track bar type	None		(a)	

(a) Tubular - Rubber Bushed

(b) SAE - 1084

# AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (a)
MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487	

**FRAME**

Type and description (Separate frame, unitized frame, partially - unitized frame)	Perimeter (Separate)	Cruciform (Separate)
---	----------------------	----------------------

**BODY – MISCELLANEOUS INFORMATION**

Drs. hinged (front, rr.)	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 Ident. No. location		Left Side of Upper Inst. Panel			
Engine No. location		Top of Left Cyl Block at Front	Top of Right Cyl. Block At Rear		
Theft protection - type		Build in Strg. Column Lock and Ignition Switch			
Vent window control method (crank, friction pivot)	Front				
	Rear				
Seat cushion type	Front	Zig - Zag			
	Rear	Formed Wire Springs (a)			
	3rd seat	-----			
Seat back type	Front	Zig - Zag			
	Rear	Formed Wire Springs (a)			
	3rd seat	-----			
Windshield glass type (i.e., single curved - laminated plate)		Compound Curved (Laminate Plate)			
Side glass type (i.e., curved - tempered plate)		Curved (Tempered Plate)			
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Single Curved (Tempered Plate)			
Windshield glass exposed surface area		1396.2		1291.6	
Side glass exposed surface area			1606.4	1492.8	
Backlight glass exposed surface area		1230.4	878.5	1197.4	
Total glass exposed surface area			3881.1	3981.8	

(a) Riviera is of Zig-Zag Type

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (\*)

	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
MODEL _____	45269	46469	48269	49487

## CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

Power windows	Side windows	Optional (a)		
	Vent windows	Not Available	(b)	Not Available
	Backlight or tailgate	Not Used		
Power seats (specify type as well as availability)		Optional (4 or 6 Way)		
Reclining front seat back (R-L or both)		Optional (2 Door Models - Bucket Seats Only)		
Front seat head restrainer (R-L or both)		Standard		
Radios (specify type as well as availability)		Sonomatic, AM/FM, AM/FM Stereo		
Rear seat speaker		Optional		
Power antenna		Optional		
Clock		Optional	Standard	
Air conditioner (specify type and availability)		Optional		
Speed warning device		Optional		
Speed control device		Optional (c)		
Ignition lock lamp		Standard		
Dome lamp		Standard		
Glove compartment lamp		Standard		
Luggage compartment lamp		Optional	Standard	
Hood lamp		Dealer Installed		
Courtesy lamp		Optional	Standard	
Map lamp		Not Available		
Auto. trans. quad. lamp		Optional (Console Only)		
Cornering light lamp		Optional (c)		
Emergency Flasher		Standard		
Ash Rcvr Lamp		Standard		

## LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest	25.49	25.29	25.47	23.86
				Lowest	25.49	25.29
	Tail	Highest	25.29		22.07	23.60
		Lowest	- - -		22.07	- - -
	Sidemarker	Front	17.04	16.84	17.02	20.18
		Rear	23.51	23.31	22.44	20.48
Distance from C L of car to center of bulb	Headlamp	Inside	23.59		12.46	
		Outside	31.18		18.92	
	Tail	Inside	14.32		17.20	
		Outside	30.35		28.67	
	Directional	Front	32.60		29.92	
		Rear	30.35		28.67	

If single headlamps are used enter here.

- (a) Standard on Electra Convertible.
- (b) Optional on Convertible. Also other body styles when power window equipped.
- (c) Not available with Man. Trans.

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED \_\_\_\_\_ REVISED (•) \_\_\_\_\_LESABRE - WILDCAT - ELECTRA 225 - RIVIERA  
ESTIMATED WEIGHTS

Model	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
	Front	Rear	Total	Pass. In Front		Pass. In Rear		Fuel	Coolant
				Front	Rear	Front	Rear		
45237	2184	1935	4119	51.96	48.04	19.25	80.75	153	28
45239	2200	1999	4199	51.41	48.59	19.45	80.55	153	28
45269	2181	2013	4194	51.06	48.94	19.59	80.41	153	28
45437	2188	1953	4141	51.80	48.20	19.31	80.69	153	28
45439	2181	2039	4220	50.77	49.23	19.70	81.20	153	28
45467	2186	2004	4190	51.21	48.79	19.53	80.47	153	28
45469	2182	2020	4198	50.99	49.01	19.61	80.39	153	28
46437	2264	1994	4258	52.12	47.88	19.19	80.81	152	35
46439	2286	2030	4316	51.95	48.05	19.25	80.75	152	35
46469	2269	2044	4313	51.63	48.37	19.37	80.63	152	35
46637	2267	1997	4264	52.12	47.88	19.19	80.81	152	35
46639	2274	2083	4357	51.26	49.64	19.51	80.49	152	35
46667	2307	2058	4365	51.86	48.14	19.28	80.72	152	35
48239	2312	2208	4520	50.34	49.66	19.86	80.14	152	35
48257	2290	2123	4413	51.00	49.00	19.61	80.39	152	35
48269	2325	2176	4501	50.80	49.20	19.69	80.31	152	35
48439	2322	2221	4543	50.31	49.69	19.88	80.12	152	35
48457	2306	2165	4471	50.72	49.28	19.72	80.28	152	35
48467	2344	2203	4547	50.71	49.29	19.72	80.28	152	35
48469	2317	2228	4545	50.19	49.81	19.92	80.08	152	35
49487	2308	2050	4358	51.96	48.04	19.25	80.75	128	35
Accessories & Equipment Differential Weights				Remarks					
V8 Engine - Hi-Perf	7.91	- - -	7.91						
LeSabre "400" Engine	43.83	13.17	57.00						
Super Turbine	2.16	.84	3.00	2 Speed (LeSabre)					
Super Turbine	16.40	6.39	22.79	3 Speed (Wildcat)					
Power Brakes	8.61	- - -	8.61	LeSabre & Wildcat					
Power Steering	27.70	- - -	27.70	LeSabre & Wildcat					
Sonomatic Radio	6.10	2.10	8.20						
AM/FM Radio	6.10	8.10	14.20						
Whitewall Tires	2.00	3.00	5.00	LeSabre-Wildcat-Riviera					
Whitewall Tires	1.98	2.97	4.95	Electra					
Ride & Handling	- 3.11	+ .39	- 2.72	LeSabre					
Ride & Handling	- 2.09	- .77	- 2.86	Wildcat					
Ride & Handling	- .96	- .77	- 1.73	Electra					
Ride & Handling	- 4.46	- .55	- 5.01	Riviera					
Air Conditioner	109.89	- - -	109.89	LeSabre					
Air Conditioner	103.96	- - -	103.96	Wildcat					
Air Conditioner	103.08	- - -	103.08	Electra					
Air Conditioner	85.63	- - -	85.63	Riviera					
Cornering Lights	5.40	- - -	5.40	LeSabre					
Cornering Lights	4.21	- - -	4.21	Wildcat & Electra					
Cornering Lights	5.62	- - -	5.62	Riviera					

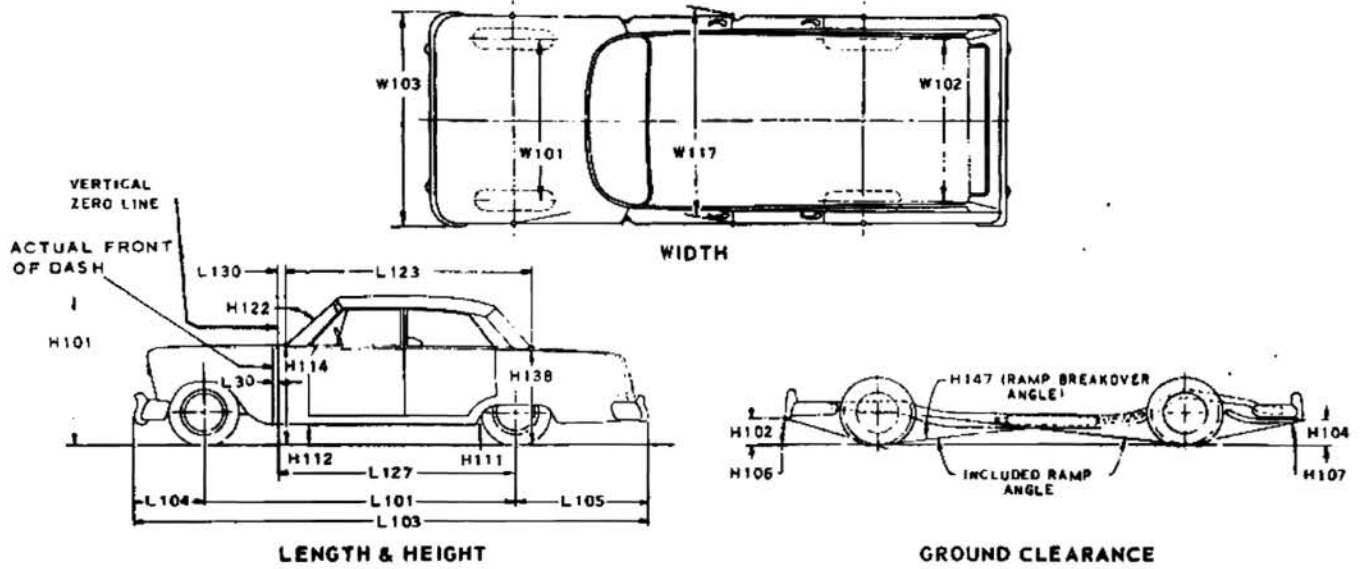
\*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

# AMA Specifications—Passenger Car

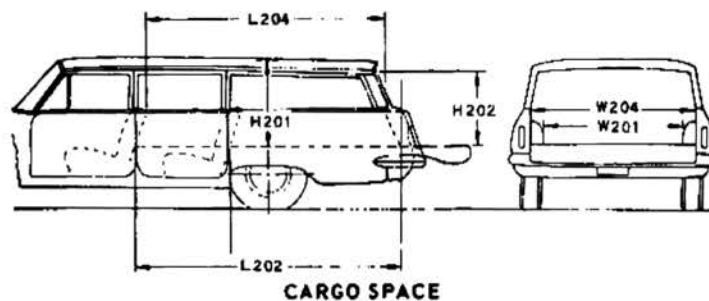
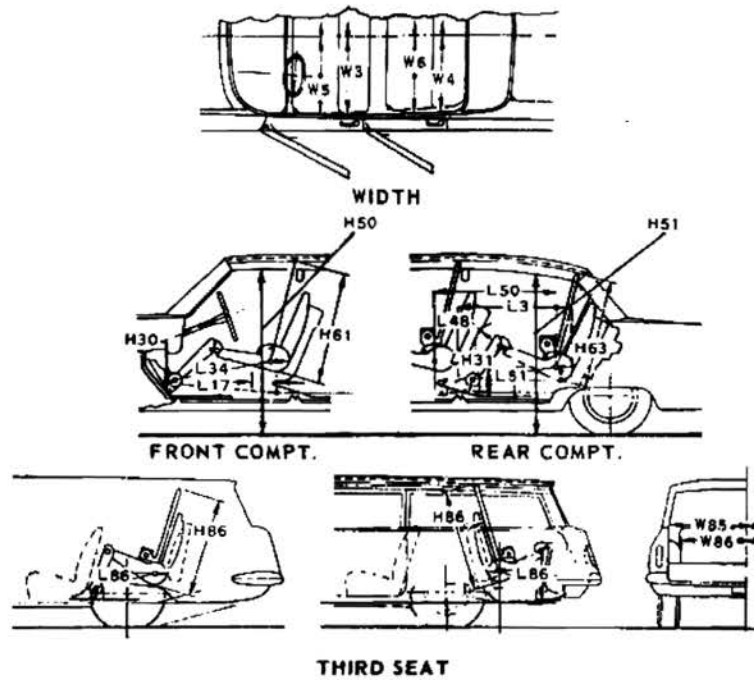
## CAR AND BODY DIMENSIONS

### KEY SHEET

#### EXTERIOR CAR AND BODY DIMENSIONS



#### INTERIOR CAR AND BODY DIMENSIONS





## CAR AND BODY DIMENSIONS

## KEY SHEET

## DIMENSION DEFINITIONS

## EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across a body at #2 pillar, excluding hardware and applied moldings.

## EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

## EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

## GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

## FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

## FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

## REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

## LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

## STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

## STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouseings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

1728

## INDEX

SUBJECT	PAGE NO.	SUBJECT	PAGE NO.
Automatic Transmission.....	16	Kingpin (Steering Axis).....	20
Axis, Steering.....	20	Lamp height and spacing.....	23
Axle, Rear.....	17	Legroom.....	2
Battery.....	12	Lengths - Car and Body.....	1
Bearings, Engine.....	5, 6, 7	Lifters, valve.....	6
Belts - Fan, Generator, Water Pump.....	11	Linings - Clutch, Brake.....	14, 19
Brakes - Parking, Service Power.....	18, 19	Lubrication.....	7, 8, 14, 15, 16, 17
Camber.....	20	Luggage Compartment.....	2
Camshaft.....	6	Motor, Starting.....	12
Capacities.....		Muffler.....	8
Cooling System.....	11	Overdrive.....	15
Fuel Tank.....	10	Piston Pins & Rings.....	4, 5
Lubricants.....		Pistons.....	4, 5
Engine Crankcase.....	8	Power Brakes.....	19
Transmission and Overdrive.....	15, 16	Power Steering.....	20
Rear Axle.....	17	Power Teams.....	3
Car and Body Dimensions.....		Propeller Shaft, Universal Joints.....	16, 17
Width.....	1	Pumps - Oil, Fuel.....	8, 10
Length.....	1	Water.....	11
Height.....	1	Radiator, Hoses.....	11
Ground Clearance.....	1	Ratios - Axle.....	3, 17
Front Compartment.....	2	Compression.....	3, 4
Rear Compartment.....	2	Steering.....	20
Luggage Compartment.....	2	Transmission.....	15, 16
Station Wagon - Third Seat.....	2	Rear Axle.....	3, 17
Station Wagon - Cargo Space.....	2	Regulator - Generator.....	12
Carburetor.....	3, 9, 10	Rims.....	18
Caster.....	20	Rings, Piston.....	5
Choke, Automatic.....	10	Rods - Connecting.....	5
Clutch - Pedal Operated.....	14	Shock Absorbers, Front & Rear.....	21
Coil, Ignition.....	13	Spark Plugs.....	13
Connecting Rods.....	5	Speedometer.....	14
Convenience Equipment.....	23	Springs - Front & Rear Suspension.....	21
Cooling System.....	11	Valve, Engine.....	6
Crankcase Ventilation System.....	8	Stabilizer (Sway Bar) - Front & Rear.....	21
Crankshaft.....	6	Starting System.....	12
Cylinders and Cylinder Head.....	4	Steering.....	20
Dimension Definitions.....		Supply System.....	12
Key Sheet.....	25	Suppression - Ignition, Radio.....	13
Exterior & Interior.....	26	Suspension - Front & Rear.....	21
Distributor - Ignition.....	13	Tail Pipe.....	8
Electrical System.....	12, 13, 14	Thermostat, Cooling.....	11
Engine.....		Timing, Engine & Valve.....	6, 7, 13
Bore, Stroke, Displacement, Type.....	4	Tires.....	18
Compression Ratio.....	4	Toe In.....	20
Firing Order, Cylinder Numbering.....	4	Torque Converter.....	16
General Information, H.P. & Torque.....	4	Torque - Engine, Rated.....	3, 4
Lubrication.....	7, 8	Transmission - Types.....	3, 10, 15, 16
Power Teams.....	3	Automatic.....	3, 10, 15, 16
Exhaust Emission Control.....	9	Manual & Overdrive.....	3, 10, 15
Exhaust System.....	8	Ratios.....	15, 16
Equipment Availability.....	22	Track.....	1
Fan, Cooling.....	11	Trunk Luggage Capacity.....	2
Filters - Engine Oil, Fuel System.....	8, 10	Turning Diameter.....	20
Frame.....	22	Unitized Construction.....	22
Front Suspension.....	21	Universal Joints, Propeller Shaft.....	16, 17
Fuel, Fuel Pump, Fuel System.....	4, 10	Valves - Intake & Exhaust.....	6, 7
Fuel Injection.....	10	Vibration Damper.....	6
Generator and Regulator.....	12	Voltage Regulator.....	12
Glass.....	22	Water Pump.....	11
Height (Lamps).....	14	Weights.....	24
Headroom - Body.....	2	Wheel Alignment.....	20
Heights - Car and Body.....	1	Wheelbase.....	1
Horns.....	14	Wheels & Tires.....	18
Horsepower - Brake.....	3, 4	Wheel Spindle.....	20
Ignition System.....	13	Widths - Car and Body.....	1
Inflation - Tires.....	18	Windshield.....	22
Instruments.....	14	Windshield Wiper.....	14