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:	Sept. 4, 1968
		REVISED (•)	12-2-68

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

BODY – TYPES AND STYLE NAMES –

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

SERIES	BODY STYLE	MODEL DESIGNATION
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

Page 1

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

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
WIDTH						
Track – Front		W101	63.0			
Track – Rear		W102	63.0			
Maximum overall car width		W103	80.0			
Body width at No. 2 pillar		W117	-----	79.2		-----
LENGTH						
Body "O" to front of dash		L 30	0.5			
Wheelbase		L101	123.2			
Overall car length		L103	218.2			
Overhang – front		L104	39.0			
Overhang – rear		L105	56.1			
Body upper structure length		L123			110.2	
Body "O" line to ℄ of rear wheel		L127	101.2			
Body "O" line to w/s cowl point		L130				
HEIGHT						
Passenger Distribution (front & rear)			2 - 2			
Trunk/Cargo load (lbs.)			200			
Overall height		H101	54.6	54.3	55.3	54.9
Cowl height		H114	39.1			
Deck height		H138	----			
Rocker panel – front	To ground	H112	8.1			
	From front wheel ℄		----			
Rocker panel – rear	To ground	H111	7.7			
	From rear wheel ℄		----			
Windshield slope angle		H122	55.0			
GROUND CLEARANCE						
Bumper to ground – front		H102	11.9			
Bumper to ground – rear		H104	12.1			
Angle of approach		H106	20.3°			
Angle of departure		H107	13.8°			
Ramp breakover angle		H147	12.1			
Min. running clearance (Specify)		H156	5.4 (Exh. System)			

AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 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
WIDTH						
Track – Front		W101	63.5			
Track – Rear		W102	63.00			
Maximum overall car width		W103	80.3			
Body width at No. 2 pillar		W117	-----	79.2		-----
LENGTH						
Body "O" to front of dash		L 30	0.5			
Wheelbase		L101	123.2			
Overall car length		L103	218.2			
Overhang – front		L104	39.0			
Overhang – rear		L105	56.1			
Body upper structure length		L123			110.2	
Body "O" line to ℄ of rear wheel		L127	101.2			
Body "O" line to w/s cowl point		L130				
HEIGHT						
Passenger Distribution (front & rear)			2 - 2			
Trunk/Cargo load (lbs.)			200			
Overall height		H101	54.6	54.3	55.3	54.9
Cowl height		H114	39.1			
Deck height		H138	-----			
Rocker panel – front	To ground	H112	8.1			
	From front wheel ℄		-----			
Rocker panel – rear	To ground	H111	7.7			
	From rear wheel ℄		-----			
Windshield slope angle		H122	55.0			
GROUND CLEARANCE						
Bumper to ground – front		H102	11.9			
Bumper to ground – rear		H104	12.1			
Angle of approach		H106	20.3			
Angle of departure		H107	13.8			
Ramp breakover angle		H147	12.1			
Min. running clearance (Specify)		H156	5.4 (Exh. System)			

AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (a)

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
WIDTH						
Track – Front		W101	63.5			
Track – Rear		W102	63.00			
Maximum overall car width		W103	80.0			
Body width at No. 2 pillar		W117	-----	79.4		-----
LENGTH						
Body "O" to front of dash		L 30				
Wheelbase		L101	126.2			
Overall car length		L103	224.8			
Overhang – front		L104	39.0			
Overhang – rear		L105	59.6			
Body upper structure length		L123				
Body "O" line to ℄ of rear wheel		L127	104.2			
Body "O" line to w/s cowl point		L130				
HEIGHT						
Passenger Distribution (front & rear)			2 - 2			
Trunk/Cargo load (lbs.)			200			
Overall height		H101	54.9		55.8	54.9
Cowl height		H114	39.3			
Deck height		H138	27.2			
Rocker panel – front	To ground	H112	8.3			
	From front wheel ℄		28.1			
Rocker panel – rear	To ground	H111	7.8	7.9	7.9	7.8
	From rear wheel ℄		27.0			
Windshield slope angle		H122	55.0			
GROUND CLEARANCE						
Bumper to ground – front		H102	12.1			
Bumper to ground – rear		H104	12.0			
Angle of approach		H106	20.7			
Angle of departure		H107	13.0			
Ramp breakover angle		H147	12.0			
Min. running clearance (Specify)		H156	5.5 (Exh. System)			

AMA Specifications—Passenger Car

Page 1 C

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

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
WIDTH			
Track – Front		W101	63.44
Track – Rear		W102	63.00
Maximum overall car width		W103	79.2
Body width at No. 2 pillar		W117	- - -
LENGTH			
Body "O" to front of dash		L 30	
Wheelbase		L101	119.0
Overall car length		L103	215.2
Overhang – front		L104	41.9
Overhang – rear		L105	54.3
Body upper structure length		L123	107.8
Body "O" line to ℄ of rear wheel		L127	95.5
Body "O" line to w/s cowl point		L130	
HEIGHT			
Passenger Distribution (front & rear)			2 - 1
Trunk/Cargo load (lbs.)			200
Overall height		H101	53.2
Cowl height		H114	
Deck height		H138	- - -
Rocker panel – front	To ground	H112	7.3
	From front wheel ℄		
Rocker panel – rear	To ground	H111	6.9
	From rear wheel ℄		
Windshield slope angle		H122	59.9
GROUND CLEARANCE			
Bumper to ground – front		H102	12.9
Bumper to ground – rear		H104	11.5
Angle of approach		H106	20.0
Angle of departure		H107	13.0
Ramp breakover angle		H147	10.9
Min. running clearance (Specify)		H156	5.0 (Rear Axle)

AMA Specifications—Passenger Car

Page 2

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (*) 9-30-68

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
FRONT COMPARTMENT					
Effective head room	H61	38.6	38.3	39.1	39.1
Max. eff. leg room – accelerator	L34	42.3			
H Point to Heel point	H30	8.3			
H Point travel	L17	4.8			
Shoulder room	W 3	62.2			61.7
Hip room	W 5	63.7	63.9		63.1
Upper body opening to ground	H50	49.2	49.3		49.2
REAR COMPARTMENT					
H Point couple distance	L50	32.3	35.0	35.3	32.3
Effective head room	H63	37.7	37.4	37.7	37.9
Min. effective leg room	L51	33.9	37.5	37.9	33.9
H Point to Heel point	H31	10.7	10.9	11.6	10.7
Min. knee room	L48	2.4	4.6	4.5	2.4
Rear Compartment room	L 3	25.3	27.6		24.4
Shoulder room	W 4	60.8	61.3		52.3
Hip room	W 6	55.5	63.0	62.9	55.5
Upper body opening to ground	H51	----	48.4	49.5	----
LUGGAGE COMPARTMENT					
Usable luggage capacity	V 1	17.3			12.9
Liftover height	H195	28.5			
Position of spare tire storage		Horizontal			
Method of holding lid open		Torsion Bar (Spring Loaded)			
STATION WAGON – THIRD SEAT					
Shoulder Room	W85	No Wagon - This Series			
Hip room	W86	" " " "			
Effective leg room	L86	" " " "			
Effective head room	H86	" " " "			
Seat facing direction		" " " "			
STATION WAGON – CARGO SPACE					
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.) $\frac{W4 \times L204 \times H201}{1728}$	V2	" " " "			

AMA Specifications—Passenger Car

Page 2A

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (*) 9-30-68

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
FRONT COMPARTMENT					
Effective head room	H61	38.4	38.1	38.9	
Max. eff. leg room – accelerator	L34	42.2			
H Point to Heel point	H30	8.5			
H Point travel	L17	4.8			
Shoulder room	W 3	61.7	61.6		62.2
Hip room	W 5	63.1	63.1		63.3
Upper body opening to ground	H50	49.2	49.3	49.7	49.2
REAR COMPARTMENT					
H Point couple distance	L50				
Effective head room	H63	37.7	37.4	37.7	37.9
Min. effective leg room	L51	33.9	37.5	37.9	33.9
H Point to Heel point	H31	10.7	10.9	11.6	10.7
Min. knee room	L48	2.4	4.6	4.5	2.4
Rear Compartment room	L 3	25.3	27.6		24.3
Shoulder room	W 4	60.3	60.8	60.7	52.3
Hip room	W 6	55.5	62.4	62.2	55.5
Upper body opening to ground	H51	----	48.4	49.5	----
LUGGAGE COMPARTMENT					
Usable luggage capacity	V 1	17.3			12.9
Liftover height	H195	28.5			
Position of spare tire storage		Horizontal			
Method of holding lid open		Torsion Bar (Spring Loaded)			
STATION WAGON – THIRD SEAT					
Shoulder Room	W85	No Wagons - This Series			
Hip room	W86	" " " "			
Effective leg room	L86	" " " "			
Effective head room	H86	" " " "			
Seat facing direction		" " " "			
STATION WAGON – CARGO SPACE					
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.) $\frac{W4 \times L204 \times H201}{1728}$	V2	" " " "			

AMA Specifications—Passenger Car

Page 2B

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e) 9-30-68

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
FRONT COMPARTMENT					
Effective head room	H61	38.5	38.5	39.4	38.6
Max. eff. leg room – accelerator	L34	42.2			
H Point to Heel point	H30	8.5			9.6
H Point travel	L17	4.8			
Shoulder room	W 3	62.3	62.2		61.6
Hip room	W 5	63.6	63.7		63.6
Upper body opening to ground	H50	49.5		50.4	49.5
REAR COMPARTMENT					
H Point couple distance	L50	35.5		38.5	35.5
Effective head room	H63	38.0		38.3	37.7
Min. effective leg room	L51	37.1	37.8	40.9	37.1
H Point to Heel point	H31	10.8		11.6	10.8
Min. knee room	L48	4.7		7.3	4.7
Rear Compartment room	L 3	28.2	28.1	30.3	27.2
Shoulder room	W 4	60.6	61.4	61.3	52.4
Hip room	W 6	54.7	62.3	62.4	54.6
Upper body opening to ground	H51	----	49.0	50.2	----
LUGGAGE COMPARTMENT					
Usable luggage capacity	V 1	18.2	18.8		13.5
Liftover height	H195	26.7			
Position of spare tire storage		Horizontal			
Method of holding lid open		Torsion Bar (Spring Loaded			
STATION WAGON – THIRD SEAT					
Shoulder Room	W85	No Station Wagons - This Series			
Hip room	W86	" " " " "			
Effective leg room	L86	" " " " "			
Effective head room	H86	" " " " "			
Seat facing direction		" " " " "			
STATION WAGON – CARGO SPACE					
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	V2	" " " " "			

AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (9) 9-30-68

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
FRONT COMPARTMENT		
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
REAR COMPARTMENT		
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	----
LUGGAGE COMPARTMENT		
Usable luggage capacity	V 1	11.5
Liftover height	H195	
Position of spare tire storage		Horizontal
Method of holding lid open		Torsion Bar (Spring Loaded)
STATION WAGON – THIRD SEAT		
Shoulder Room	W85	No Station Wagon - This Series
Hip room	W86	" "
Effective leg room	L86	" "
Effective head room	H86	" "
Seat facing direction		" "
STATION WAGON – CARGO SPACE		
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.) $\frac{W4 \times L204 \times H201}{1728}$	V2	" "

AMA Specifications—Passenger Car

Page 3

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED 12-2-68

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 @ 4400	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 @	475 @	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.) (3.23 Perf.) (3.91 S.C.O.)
Riviera	430	4 bbl	10.25	360 @ 5000	475 @ 3200	Automatic	3.07 Std. (3.43 Perf.) (3.91 S.C.O.)

* Not Available with A/C

AMA Specifications—Passenger Car

Page 4

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e) 12-2-68

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 (℄ to ℄)	4.240	4.750		
No. system (front to rear) L. Bank	1-3-5-7			
No. system (front to rear) R. Bank	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	Two			
Number of mtg. points Rear	One			
Engine installation angle	6° 15'			5° 6'
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$	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.	18.192	24.352 ± .064		
Clearance (limits) Top land	.027 - .036	.0343 - .0423		
Clearance (limits) Skirt Top	.0008 - .0014	.0007 - .0013		
Clearance (limits) Skirt Bottom	.0013 - .0029	.017 - .033		
Ring groove depth No. 1 ring	.1750 - .1675	.1810 - .1885		
Ring groove depth No. 2 ring	.1775 - .1700	.1835 - .1910		
Ring groove depth No. 3 ring	.1955 - .1880	.1815 - .1890		
Ring groove depth 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

Page 5

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (•) 12-2-68

MODEL	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
	45269	46469	48269	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		.9391 - .9394	.9991 - .9994	
Type	Locked in rod, in piston, floating, etc.	Pressed-In-Rod		
	Bushing: In rod or piston	None		
	Bushing: Material	None		
Clearance	In piston	.0004 - .0007 Select (Free Fall Through)		
	In rod	.00075 - .00125 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 - .014	

(a) Major Thrust Side

AMA Specifications—Passenger Car

Page 6

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

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	
Type of Drive	Gear or chain		Chain	
	Crankshaft gear or sprocket material		Sintered Iron	
	Camshaft gear or sprocket material		Aluminum - 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

Page 7

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (•)12-2-68

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		103	
		Duration - deg.	282		297	
	Exhaust	Opens (°BBC)	70		87	
		Closes (°ATC)	38		46	
		Duration - deg.	288		313	
	Valve opening overlap		62		60	
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		.3730 - .3723 (d)			
	Stem to guide clearance		.0015 - .0032			
	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 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			

(Continued)

(a) .3725 ± .0005 - Max. Allowable Taper to be .0003 with Smallest Dia. at Head End
(b) .0015 - .0035 and .0003 Max. Taper (c) Aluminized Face & Chrome Flashed Stem
(d) Max. Taper to be .0002 at Either End

AMA Specifications—Passenger Car

Page 8

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (*)

MODEL	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
	45269	46469	48269	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 and Can			
Capacity of c 'case, less filter-refill (qt.)				
Oil grade recommended (SAE viscosity and temperature range)	Anticipated Lowest Temp. / Use SAE Viscosity 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	2.00 - .076	2.25 - .084 (b)		
Exhaust pipe dia. (O.D., wall thick.) Main	2.25 - .084 (b)			2.00-.084 (b)
Tail pipe dia. (O.D. & wall thickness)	2.00 - .048	2.25 - .048		2.00-.060

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Closed Induction System			
	Optional	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

Page 9

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

MODEL	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
	45269	46469	48269	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				
	Backfire protection (type)				
Carburetor	Make		Rochester		
	Model		2GV	4MV	
	Barrel size		1.4375	(p) 1.375	(s) 2.250
	Idle speed	Drive	600	550	
		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			T.V.S. Switch (Auto. Trans. Only) to Advance Timing when Coolant Becomes "Hot".		
Exhaust System					

AMA Specifications—Passenger Car

Page 10

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

MODEL	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
	45269	46469	48269	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		(e)	5.5-7.0 @ otlt.(c)		(d)
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 bbl	1.4375
	350	Automatic	Rochester	2 GV	1-2 bbl	1.4375
	350	Automatic	Rochester	2 GV	1-4 bbl	(a)
Wildcat Series 464-466	430	Manual (3)	Rochester	4 MV	1-4 bbl	(a)
	430	Automatic	Rochester	4 MV	1-4 bbl	(a)
Electra "225" Series 482-484	430	Automatic	Rochester	4 MV	1-4 bbl	(a)
Riviera Series 494	430	Automatic	Rochester	4 MV	1-4 bbl	(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
(d) 5.5-7.0 at 13.5 Volts
(e) 4.25-5.75 @ Otlt. (b)

AMA Specifications—Passenger Car

Page 11

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (a)9-30-68

ENGINE – COOLING SYSTEM

MODEL			LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487
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) (b)		
	Diameter		18.0	18" (20" A/C)		
	Ratio-fan to crankshaft rev.		.95 (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	42.20	61.50	64.00	46.0	62.76			
Width	.38	.38	.47	.47	.47	.47	.38	.47			

(a) 7 Blades with A/C

(b) 7 Blades - 40°-45°-50°-54°-59°-64°-48°

AMA Specifications—Passenger Car

Page 12

MAKE OF CAR Buick MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (•)

MODEL	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
	45269	46469	48269	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		
	Number of teeth: 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 & 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

Page 13

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (•) 9-30-68

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'fgal 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 and Coil to Distributor
Condensers at Voltage Regulator and Delcotron
Ground Straps - Engine to Dash and Resistor Spark Plugs

AMA Specifications—Passenger Car

Page 14

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (a)

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

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	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			
Windshield wiper	Type – Standard	Electric - (Two Speed)	
	Type – Optional	None	
Windshield 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

Page 15

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 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			
Transmission ratios – In second	1.61			
Transmission ratios – In third	1.00			
Transmission ratios – In fourth	----			
Transmission ratios – In reverse	2.33			
Synchronous meshing, specify gears	All Forward			
Shift lever location	Steering Column			
Lubricant – Capacity (pt.)	3.5			
Lubricant – Type recommended	(a)			
Lubricant – SAE viscosity number – Summer	SAE-80			
Lubricant – SAE viscosity number – Winter	SAE-80			
Lubricant – SAE viscosity number – 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)				
Lubricant – Separate filler (yes, no)				
Lubricant – Type recommended				
Lubricant – SAE viscosity number – Summer				
Lubricant – SAE viscosity number – Winter				
Lubricant – SAE viscosity number – Extreme cold				

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

AMA Specifications—Passenger Car

Page 16

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

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

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		(h)	Turbo Hydra-matic "400"				
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		D L R 1st --- 1.765 --- 2nd 1.00 --- ---		DRIVE 1st 2nd 3rd	L 2.48 1.48 1.00	L 2.48 ---- ----	REV. 2.08 ---- ----
Max. upshift speed–drive range		68 (1-2)	44(a) 78(b)		48(a) 86(b)		44(a) 78(b)
Max. kickdown speed–drive range		64 (2-1)	25(c) 72(d)		28(c) 80(d)		25(c) 72(d)
Torque convertor	Number of elements	Three					
	Max. ratio at stall	2.25	2.05				
	Type of cooling (air, liquid)	Water					
	Nominal diameter	11.75					
Lubricant	Capacity–refill (pt.)	(g)	23 Total-7 Drain				
	Type recommended	"DEXRON" R Automatic Trans. Fluid					
Special transmission features							

DRIVE UNITS – PROPELLER SHAFT

Number used		One		Two
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Exposed		
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.00 x 59.88 x .065	3.25 x 58.35 x .065	Not Available
	Manual 4-speed trans.	Not Available		
	Overdrive transmission	Not Available		
	Automatic transmission	3.00 x 60.04 x .065 (e)	3.25 x 61.35 x .065 (e)	Frt-2.25 x .095 x 36.209 Rr-2.25 x .095 x 25.30 (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
(g) 19 Total-5 Drain
(h) Super Turbine "300"

AMA Specifications—Passenger Car

Page 17

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

DRIVE UNITS – PROPELLER SHAFT (cont.)

MODEL			LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487
Intermediate bearing	Type (plain, anti-friction)		Anti-Friction			
	Lubrication (fitting, prepack)		Pre-Packed			
Slip Yoke	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	
Universal joints	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			
Lubricant	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)

Axle ratio		(b) 3.23	(c) 3.07	(d) 2.78	(e) 3.91	(f) 2.93	(g) 2.73	(h) 3.42	(i) 2.56
No. of teeth	Pinion	13	14	14	11	14	15	12	16
	Ring gear	42	43	39	43	41	41	41	41
Ring Gear O.D.		8.500			9.375				

(a) Saginaw with Double Cardan Center and Rear

** See Footnote Page 17A

AMA Specifications—Passenger Car

Page 17A

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

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

	LESABRE	WILDCAT (*)	ELECTRA	RIVIERA	RIVIERA GS
(b)	Std (3-Spd) (Perf-Auto)	(c) Std.	(d) Std.	(c) Std.	(h) Std.
(e)	SCO (3-Spd. and 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)				

(*) Same Ratios (Manual (3) or Automatic)

AMA Specifications—Passenger Car

Page 18

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (•) 9-30-68

DRIVE UNITS – WHEELS

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

DRIVE UNITS – TIRES

MODEL			LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487
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			24
		Rear	28			26
	Rev./Mile at 50 MPH		739		729	737
Optional	Size, ply rating, & ply		H70-15 Wide Oval - (Export) 8.55-15 (a) 225R15 Radial Tires 8.55-15 4-Ply Nylon (Export)		225R15 Radial Ply 8.85-15 4-Ply Nylon (Export)	225R15 Radial Ply 8.55-15 4-Ply Nylon (Export) H70-15 (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

Page 19

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e) 9-30-68

BRAKES – SERVICE

MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487
Type (drum) or (disc & no. of pistons)	Drum (a)			
Self adjusting (std., opt., N.A.)	Standard			
Special Valving — Type (proportion, delay, metering, other)	None			
Power brake make & type (remote, int., etc.) — Std.	Delco-Moraine (Int. Vac. Susp.)			
Power brake make & type (remote, int., etc.) — 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			
Drum — Diameter (nominal) — Rear	12.007 - 11.997			
Drum — Type and material	Composite Cast Iron	Fronts - Aluminum with Cast Iron Liner Rears - Composite Cast Iron		
Rotor — Outer working diameter				
Rotor — Inner working diameter				
Rotor — Working width				
Rotor — Material & type (vented/solid)				
Wheel cylinder bore — Front	1.875			
Wheel cylinder bore — Rear	1.000			.9375
Master Cylinder — Bore	1.000			
Master Cylinder — displacement distribution — Front %	64.0		61.5 (b)	
Master Cylinder — displacement distribution — Rear %	36.0		38.5	
Pedal arc ratio				
Line pressure at 100 lb. pedal load	740 psi (c)		1100psi	
Shoe Clearance — Front	.015			
Shoe Clearance — Rear	.015			
Brake lining — Bonded or riveted	Riveted			
Brake lining — Front Wheel — Material	Molded Extruded			
Brake lining — Front Wheel — Size (length x width x thickness) — Prim. or outboard	9.90 x 2.25 x .220			
Brake lining — Front Wheel — Size (length x width x thickness) — Second. or inboard	12.85 x 2.25 x .316			
Brake lining — Front Wheel — Segments per shoe	One			
Brake lining — Rear Wheel — Material	Molded Extruded			
Brake lining — Rear Wheel — Size (length x width x thickness) — Prim. or outboard	9.90 x 2.00 x .220			
Brake lining — Rear Wheel — Size (length x width x thickness) — Second. or inboard	12.85 x 2.00 x .316			
Brake lining — Rear Wheel — 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

Page 20

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e) 12-2-68

MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 49487
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)			
Adjustable steering wheel (tilt, swing, other) — (std., opt., NA)	Optional			Standard
Wheel diameter — Manual	16.0			
Wheel diameter — Power	16.0			
Turning diameter (feet) — Outside front — Wall to wall (l. & r.)	45.6		49.0	46.0
Turning diameter (feet) — Outside front — Curb to curb (l. & r.)	42.2		46.1	43.4
Turning diameter (feet) — Inside rear — Wall to wall (l. & r.)	24.8		28.8	26.10
Turning diameter (feet) — Inside rear — Curb to curb (l. & r.)	25.7		29.4	26.70
Manual — Gear — Type	Recirculating Ball-Nut		Not Available	
Manual — Gear — Make	Saginaw		Not Available	
Manual — Gear — Ratios — Gear	28.0	28.0	Not Available	
Manual — Gear — Ratios — Overall	34.3	34.3	Not Available	
Manual — No. wheel turns (stop to stop)	6.7		Not Available	
Power — Type (coaxial, linkage, etc.)	In-Line Rotary Valve			
Power — Make	Saginaw			
Power — Gear — Type	Recirculating Ball-Nut - Integral with Power Piston			
Power — Gear — Ratios — Gear	17.5	16.0 - 12.2 Variable Ratio		
Power — Gear — Ratios — Overall	21.4	19.6 - 14.0		17.4 - 11.6
Power — Pump driven by	Belt			
Power — No. wheel turns (stop to stop)	4.2	3.3		2.9
Linkage — Type	Parallelogram			
Linkage — Location (front or rear of wheels, other)	Rear of Wheels			
Linkage — Drag link (trans. or longit.)	Transverse			
Linkage — Tie rods (one or two)	Two			
Steering Axis — Inclination at camber (deg.)	10° 43' @ 0° 53'			
Steering Axis — Bearings (type) — Upper	Ball Joint Suspension Used			
Steering Axis — Bearings (type) — Lower	Ball Joint Suspension Used			
Steering Axis — Bearings (type) — Thrust	Ball Joint Suspension Used			
Whl. Align. (range at curb wt. & preferred) — Caster (deg.)	+45 ' ± 30' (Curb Height)			+1° ± 30'
Whl. Align. (range at curb wt. & preferred) — Camber (deg.)	0° ± 30'			0° +15' ± 30'
Whl. Align. (range at curb wt. & preferred) — Toe-in (outside track inches)	.25 ± .05			.20 ± .05
Steering spindle & joint type				
Wheel Spindle — Diameter — Inner bearing	1.3748/1.3743			
Wheel Spindle — Diameter — Outer bearing	.8435/ .8430			
Wheel Spindle — Thread size	.750 - 20			
Wheel Spindle — Bearing type	Tapered Roller			

(a) Not Available with Manual Transmission

AMA Specifications—Passenger Car

Page 21

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

MODEL	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
	45269	46469	48269	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 and 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.		
		158 x .670	161 x .695	152 x .695
	Spring rate (lb. per in.)	290	325	345
	Rate at wheel (lb. per in.)	96	105	111
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.		
		142 x .576	141 x .580	137 x .567
	Spring rate (lb. per in.)	100	105	100
	Rate at wheel (lb. per in.)	96	100	104
	Mounting insulation type	Rubber		
	If leaf: No. of leaves	None		
	If leaf: Shackle (comp. or tens.)	None		
Stabilizer	Type (link, linkless, frameless)	None		
	Material	None		
Track bar type		None (a)		

(a) Tublar - Rubber Bushed
(b) SAE - 1084

AMA Specifications—Passenger Car

Page 22

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

MODEL	LESABRE	WILDCAT	ELECTRA "225"	RIVIERA
	45269	46469	48269	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 Indent. 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		1417.2	1606.4	1492.8
Backlight glass exposed surface area		1230.4	878.5	1197.4
Total glass exposed surface area		4043.8	3881.1	3981.8

(a) Riviera is of Zig-Zag Type

AMA Specifications—Passenger Car

Page 23

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (•)9-30-68

MODEL	LESABRE 45269	WILDCAT 46469	ELECTRA "225" 48269	RIVIERA 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 (d)			
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	
Underhood lamp		Dealer Installed			
Courtesy lamp		Optional	Standard		
Map lamp		Optional		Standard	
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	25.47	23.86
	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	12.55
		Outside	30.35		28.67	26.29
	Directional	Front	32.60			29.92
		Rear	30.35		28.67	26.29

* 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.

(d) Standard with FM Radio and Stereo

AMA Specifications—Passenger Car

Page 24

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (•) 12-2-68

LESABRE - WILDCAT - ELECTRA "225" - RIVIERA

WEIGHTS

		CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
					Pass. In Front		Pass. In Rear			
		Fron.	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
Model	45237	2137	1951	4088	51.28	48.72	19.50	80.50	152	28
	45239	2160	1975	4135	51.25	48.75	19.51	80.49	152	28
	45269	2131	1987	4118	50.81	49.19	19.68	80.32	152	28
	45437	2179	1991	4170	51.28	48.72	19.50	80.50	152	28
	45439	2207	2018	4225	51.27	48.73	19.50	80.50	152	28
	45467	2123	1987	4110	50.72	49.28	19.71	80.29	152.	28
	45469	2178	2030	4208	50.84	49.16	16.67	80.33	152	28
	46437	2197	1973	4170	51.67	48.33	19.35	80.65	152	35
	46439	2271	2085	4356	51.21	48.79	19.53	80.47	152	35
	46469	2218	2036	4254	51.19	48.81	19.53	80.47	152	35
	46637	2259	2027	4286	51.71	48.29	19.34	80.66	152	35
	46639	2276	2096	4372	51.14	48.86	19.55	80.45	152	35
	46667	2245	2059	4304	51.22	48.78	19.52	80.48	152	35
	48239	2318	2128	4446	51.23	48.77	19.52	80.48	152	35
	48257	2294	2061	4355	51.70	48.30	19.34	80.66	152	35
	48269	2291	2104	4395	51.21	48.79	19.53	80.47	152	35
	48439	2334	2150	4484	51.16	48.84	19.55	80.45	152	35
	48457	2305	2069	4374	51.72	48.28	19.33	80.67	152	35
	48467	2327	2134	4461	51.25	48.75	19.51	80.49	152	35
	48469	2307	2126	4433	51.14	48.86	19.56	80.44	152	35
	49487	2285	2042	4327	51.81	48.19	19.30	80.70	128	35

Accessories & Equipment Differential Weights				Remarks
V8 Engine-Hi Performance	7.91	-----	7.91	LeSabre
LeSabre "400" Package	35.92	13.17	49.09	
Super Turbine "300"	-11.52	-4.48	-16.00	Two-Speed (LeSabre)
Turbo Hydramatic "400"	16.40	6.39	22.79	Three-Speed (Wildcat)
Power Brakes	8.61	-----	8.61	LeSabre and Wildcat
Power Steering	27.70	-----	27.70	LeSabre and Wildcat
Radio, Sonomatic	6.60	2.40	9.00	
Radio, AM/FM	7.95	5.30	13.25	
Tires, Whitewall	1.64	2.45	4.09	LeSabre, Wildcat, and Riviera
Tires, Whitewall	2.85	4.27	7.12	Electra
Disc Brakes, Front	9.63	-----	9.63	LeSabre
Disc Brakes, Front	28.27	-----	28.27	Wildcat
Disc Brakes, Front	28.04	-----	28.04	Electra and Riviera
Air Conditioner	109.89	-1.76	108.13	LeSabre
Air Conditioner	103.96	-1.66	102.30	Wildcat
Air Conditioner	103.08	-1.65	101.43	Electra
Air Conditioner	85.63	-1.37	84.26	Riviera
Cornering Lights	5.40	-----	5.40	LeSabre
Cornering Lights	4.21	-----	4.21	Wildcat and Electra
Cornering Lights	5.62	-----	5.62	Riviera

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

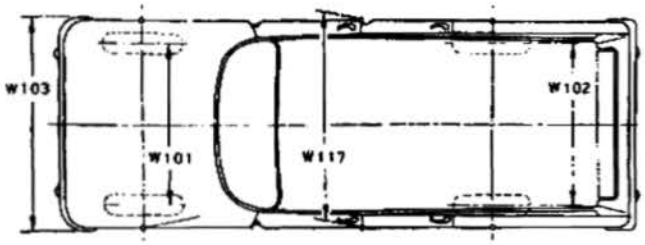
AMA Specifications—Passenger Car

Page 25

CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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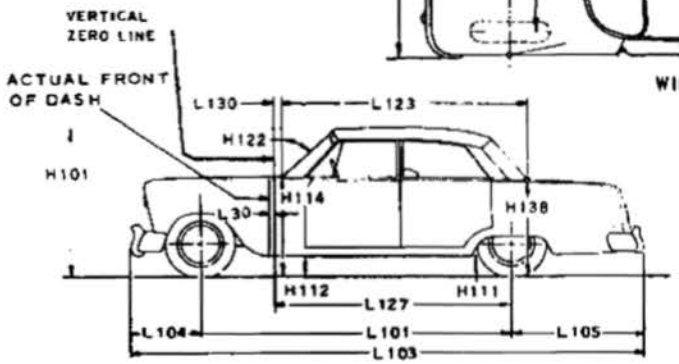

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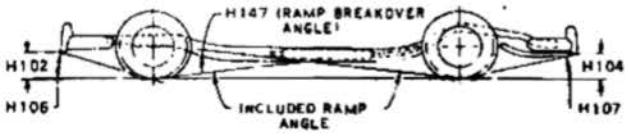
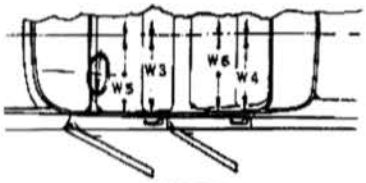


GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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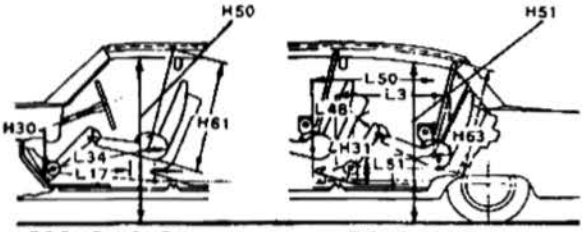
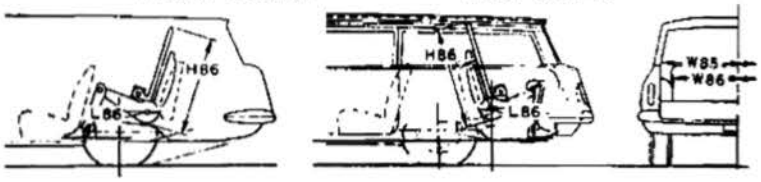
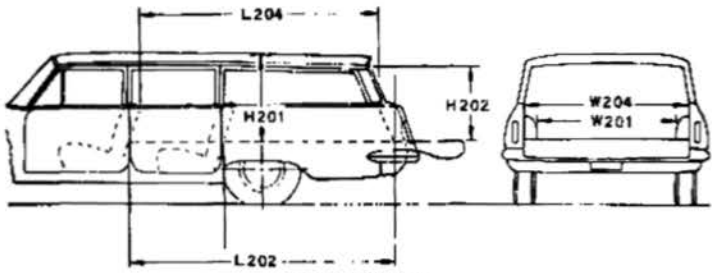


FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

AMA Specifications—Passenger Car

Page 26

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 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 wheelhousings 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.

$$\frac{W4 \times L204 \times H201}{1728}$$

AMA Specifications—Passenger Car

Page 27

INDEX