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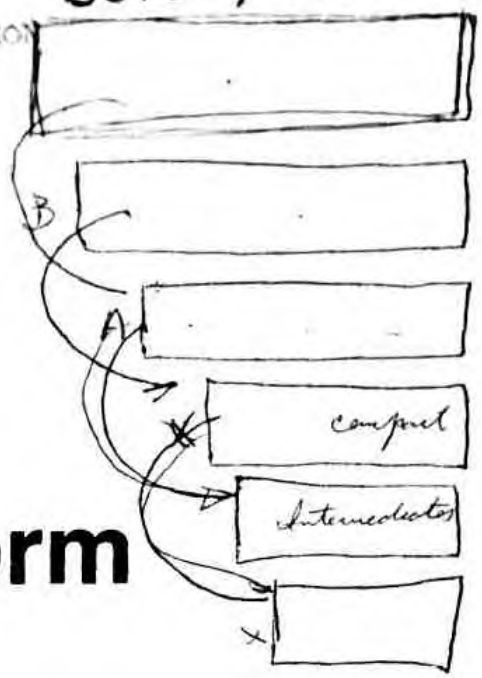
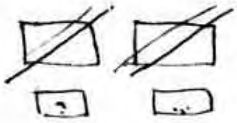
AUTOMOBILES

BUICK, Buick 1977



1977 MVMA Specifications Form

Passenger Car



Manufacturer	Car Line	
Buick Motor Division General Motors Corporation	Century Century Custom Regal	
Mailing Address	Model Year	Issued: 9-30-76
1051 E. Hamilton Ave. Flint, Michigan	1977	Revised (•)

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MVMA Specifications Form
Passenger Car

Car Line Buick Century, Century Custom,
Model Year 1977 Issued 9-30-76 Revised (•)

	Engine Displacement	
	231 CID	350 CID

Drive Units—Clutch (Manual Transmission)

Make & type			Chevrolet - Single Plate
Type pressure plate springs			Flat Belleville
Total spring load (lb)			1875
No. of clutch driven discs			One
Clutch facing	Material		Woven Asbestos
	Manufacturer		Borg & Beck
	Part Number		340227
	Rivets/Plate		36
	Rivet size		
	Outside & inside dia		10.00 x 6.00
	Total eff. area (sq. in.)		100.48
	Thickness		0.135
	Engagement cushioning method		Flat Spring
Release bearing	Type & method of lubrication		Balls - Permanent
Torsional damping	Methods, springs, friction material		Coil Springs - Steel Friction

Drive Units—Transmissions

Manual 3-speed (std., opt., N.A.)	Standard
Manual 4-speed (std., opt., N.A.)	Not Available
Automatic (std., opt., N.A.)	Optional

Drive Units — Manual Trans.

Number of forward speeds			Three
Transmission ratios	In first		3.11
	In second		1.84
	In third		1.00
	In fourth		-
	In reverse		3.22
Synchronous meshing, specify gears			All Forward
Shift lever location			Steering Column
Lubricant	Capacity (pt.)		3.12
	Type recommended		Multi-purpose
	SAE viscosity number	Summer	80-90
		Winter	80
		Extreme cold	80

MVMA Specifications Form
Passenger Car

Car Line: Buick Century, Century Custom, ... Sp... enger
Model Year: 1977 Issued: 9-30-76 Revised:

Body Type And/Or Engine Displacement	
Coupes and Sedans	Wagons

Brakes — Service

Brake type (std., opt., N.A.)	Drum		Front	-
			Rear	Standard
	Disc		Front	Standard (Single Piston Disc)
			Rear	-
Self adjusting (std., opt., N.A.)				Standard
Special valving	Type (proportion, delay, metering, other)			Combination Valve (Failure Warning): Front, Hold-off, Rear, Proportioning (a)
Power Brake (std., opt., N.A.)				Optional (Standard on Wagon)
Booster type (remote, integral, etc.)				200mmx200mm 9-1/2 x 8 Delco Moraine (Intake Vacuum Susp.)
Effective area (sq. in.)*				108.00
Gross lining area (sq. in.)**				122.36
Swept area (sq. in.)***				362.58
Drum	Diameter (nominal)		Front	None
			Rear	11.007 - 10.997
	Type and material			Rears (Composite Cast Iron)
Rotor	Outer working diameter			11.00
	Inner working diameter			7.18
	Thickness			1.00
	Material & type (vented/solid)			Cast Iron Vented
Wheel cylinder bore	Front			2.9375
	Rear			0.937
Master Cylinder	Bore			Manual: .9735; Power: 1.125
	Stroke			Manual: 1.429; Power: 1.408
Pedal arm ratio				Manual: 6.3:1; Power 3.5:1
Line pressure at 100 lb. pedal load				680 PSI (Power: 1400 (B) psi at 20" Hg)
Shoe Clearance	Front			0
	Rear			.015 (Radial)
Anti-skid device type (std., opt., N.A.)				None
Brake lining	Bonded or riveted, rivets/seg			Riveted Front and rear
	Rivet size			
	Manufacturer			
	Part number			
	Front Wheel	Material		Asbestos / Metallic Outer
		Size (length x width x thickness)	Prim. or outboard	5.40 x 1.93 x 0.46
			Second or inboard	5.40 x 1.93 x 0.46
		Segments per shoe		One
		Shoe thickness		
	Rear Wheel	Material		Asbestos
		Size (length x width x thickness)	Prim. or outboard	8.93 x 2.0 x 0.232 nom thickness
			Second or inboard	11.58 x 2.0 x 0.272 nom thickness
		Segments per shoe		One
		Shoe thickness		

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept area for four brakes (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus square of Inner Working Dia. multiplied by π/2 for each brake.)

(a) No rear proportioning with wagons (b) 1050 for 200mmx200mm

Buick 1977

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AUTOMOBILES

METRIC

1977 MVMA Specifications Form

Passenger Car

Manufacturer	Car Line	
Buick Motor Division General Motors Corporation	LeSabre LeSabre Custom	
Mailing Address 1051 E. Hamilton Avenue Flint, Michigan 48550	Model Year 1977	Issued: 9-30-76 Revised (•)

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MVMA Specifications Form
Passenger Car

Car Line LeSabre, LeSabre Custom
Model Year 1977 Issued 9-30-76 Revised (•)

METRIC

Engine Displacement
LeSabre/LeSabre Custom

Drive Units—Clutch (Manual Transmission)

Make & type		Not Available
Type pressure plate springs		
Total spring force		(N
No. of clutch driven discs		
Clutch facing	Material	
	Manufacturer	
	Part Number	
	Rivets/Plate	
	Rivet size	(mm)
	Outside & inside dia.	(mm)
	Total eff. area	(cm²)
	Thickness	(mm)
	Engagement cushioning method	
Release bearing	Type & method of lubrication	
Torsional damping	Methods: springs, friction material	

Drive Units—Transmissions

Manual 3-speed (std., opt., N.A.)	Not Available
Manual 4-speed (std., opt., N.A.)	Not Available
Automatic (std., opt., N.A.)	Standard

Drive Units — Manual Trans.

Number of forward speeds			Not Available
Transmission ratios	In first		
	In second		
	In third		
	In fourth		
	In reverse		
Synchronous meshing, specify gears			
Shift lever location			
Lubricant	Capacity		(litres)
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
		Extreme cold	

METRIC

MVMA Specifications Form
Passenger Car

Car Line LeSabre, LeSabre Custom
Model Year 1977 Issued 9-30-76 Revised •

Body Type And/Or Engine Displacement

LeSabre/LeSabre Custom

Brakes — Service

Brake Type (std. opt. N.A.)	Drum	Front	-
		Rear	Standard
	Disc	Front	Single Piston - Standard
		Rear	-
Self adjusting (std. opt. N.A.)			Standard
Special Warning	Type (proportion, delay, metering, other)		Failure Warning (Front: Metering, Rear: Proportioning)
Power Brake (std. opt. N.A.)			200mmx200mm 9-1/2 x 8 Delco Moraine Tandem;
Booster Type (remote, integral, etc.)			Int. Vacuum Suspended
Effective area *			696.8 (108.00 Sq. in) (cm)
Gross lining area **			789.4 (122.36 sq. in) (cm)
Swept area ***			2478.7 (384.18 sq. in) (cm)
Drum	Diameter (nominal)	Front	Not Applicable (mm)
		Rear	241.3 (9.5) (mm)
	Type and material		Rears - Composite Cast Iron
Rotor	Outer working diameter		279.4 (11.00) (mm)
	Inner working diameter		182.4 (7.18) (mm)
	Thickness		25.4 (1.0) (mm)
	Material & type (vented/solid)		Cast Iron (Vented)
Wheel cylinder bore	Front		74.613 (2.9375) (mm)
	Rear		22.225 (.875) (mm)
Master Cylinder	Bore		28.575 (1.125) (mm)
	Stroke		35.763 (1.408) (mm)
Pedal arc ratio			3.5:1
Line pressure at 445 N pedal force			7.25 (1050 psi at 20" Hg Vacuum) (MPa)
Shoe Clearance	Front		0 (mm)
	Rear		.381 (.015 Radial) (mm)
Anti skid device type (std. opt. N.A.)			None
Brake lining	Bonded or riveted, rivets/seg		Riveted Front and Rear
	Rivet size		(mm)
	Manufacturer		
	Part number		
	Front Wheel	Material	Asbestos
		Size (length x width x thickness) Prim. or outboard	137.16 x 49.02 x 11.68 (5.40x1.93x0.46) (mm)
		Size (length x width x thickness) Second or inboard	137.16 x 49.02 x 11.68 (5.40x1.93x0.46) (mm)
		Segments per shoe	One (mm)
		Shoe thickness	(mm)
	Rear Wheel	Material	Asbestos
		Size (length x width x thickness) Prim. or outboard	193.8x50.8x4.93 (7.93 x 2 x .190) (mm)
		Size (length x width x thickness) Second or inboard	251.7x50.8x6.86 (9.91 x 2 x .270) (mm)
		Segments per shoe	One (mm)
		Shoe thickness	(mm)

* Excludes rivet holes, grooves, chamfers, etc.
** Includes rivet holes, grooves, chamfers, etc.
*** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus square of Inner Working Dia. multiplied by π/2 for each brake.)

BUICK, 1977

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METRIC

NATIONAL AUTOMOTIVE HISTORY COLLECTION

AUTOMOTIVE

1977 MVMA Specifications Form

Passenger Car

Manufacturer	Car Line	
Buick Motor Division General Motors Corporation	Estate Wagon Electra Riviera	
Mailing Address	Model Year	Issued: 9-30-76
1051 E. Hamilton Avenue Flint, Michigan 48550	1977	Revised (•)

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MVMA Specifications Form
Passenger Car

Chrysler: Escape Wagon, Electra, Riviera
Model Year: 1977 Issued: 9-30-76 Revised to:

METR

Engine Displacement:

	Escape Wagon	Electra/Riviera

Drive Units—Clutch (Manual Transmission)

Make & type		Not Available
Type pressure plate springs		
Total spring force		
No. of clutch driven discs		
Clutch facing	Material	
	Manufacturer	
	Part number	
	Rivets/Plate	
	Rivet size	
	Outside & inside dia.	
	Total eff. area	
	Thickness	
	Engagement cushioning method	
Release bearing	Type & method of lubrication	
Torsional damping	Methods: springs, friction material	

Drive Units—Transmissions

Manual 3-speed (std. opt. N/A)	Not Available
Manual 4-speed (std. opt. N/A)	Not Available
Automatic (std. opt. N/A)	Standard

Drive Units — Manual Trans.

Number of forward speeds		
Transmission ratios	In first	
	In second	
	In third	
	In fourth	
	In reverse	
Synchronous meshing, specify gears		
Shift lever location		
Lubricant	Capacity	
	Type recommended	
	SAE viscosity number: Summer	
	SAE viscosity number: Winter	
	SAE viscosity number: Extreme cold	

MVMA Specifications Form
Passenger Car

Car Line: Estate Wagon, Electra, Riviera — METRIC
Model Year: 1977 — Issued: 9-30-76 — Revised (●)

Body Type And/Or Engine Displacement

Estate Wagon	Electra	Riviera

Brakes — Service

Brake Type (std. opt. N.A.)	Drum	Front	-		
		Rear	Standard		
	Disc	Front	Single Piston Disc - Standard		
		Rear	-		
Self adjusting (std. opt. N.A.)			Standard		
Special Valving	Type (proportion, delay, metering, other)		Failure Warning (Front: Metering, Rear: Proportioning) (e)		
Power Brake (std. opt. N.A.)			Standard		
Booster Type (remote, integral, etc.)			Intake Vacuum Suspended		
Effective area *			746.5 (115.70)	696.8 (108.00)	(cm²)
Gross lining area **			846.1 (131.14)	789.5 (122.36)	(cm²)
Swept area ***			2558.7 (396.58)	2478.7 (384.18)	(cm²)
Drum	Diameter (nominal)	Front	Not Applicable		(mm)
		Rear	279.58-279.32 (11.007 - 10.997)		(mm)
	Type and material		Rears - Composite Cast Iron		
Rotor	Outer working diameter		301.24 (11.86)		(mm)
	Inner working diameter		199.64 (7.86)		(mm)
	Thickness		25.4 (1.0)		(mm)
	Material & type (vented/solid)		Cast Iron (Vented)		
Wheel cylinder bore	Front		74.61 (2.9375)		(mm)
	Rear		23.81 (.9375)		(mm)
Master Cylinder	Bore		28.58 (1.125)		(mm)
	Stroke		35.76 (1.408)		(mm)
Pedal arm ratio					
Line pressure at 445 N pedal force			9.66 (1400 psi at 20" Hg vacuum)	7.25 (1050 psi at 20"hg vacuum)	
Shoe Clearance	Front		0		(mm)
	Rear		.381 (.015 Radial)		(mm)
Anti-skid device type (std. opt. N.A.)			None		
Brake lining	Bonded or riveted, rivets/seg.		Riveted Front and Rear		
	Rivet size				(mm)
	Manufacturer				
	Part number				
	Front Wheel	Material	Asbestos		
		Size (length x width x thickness) Prim. or out board	137.16x49.02x11.68 (5.40 x 1.93 x 0.46)(B)		(mm)
					(mm)
		Second or in-board	137.16x49.02x11.68 (5.40 x 1.93 x 0.46)(C)		(mm)
					(mm)
		Segments per shoe	One		
		Shoe thickness			(mm)
	Rear Wheel	Material	Asbsetos		
		Size (length x width x thickness) Prim. or out board	(A)		(mm)
					(mm)
		Second or in-board	(C)		(mm)
					(mm)
		Segments per shoe	One		
		Shoe thickness			(mm)

* Excludes rivet holes, grooves, chamfers, etc.
** Includes rivet holes, grooves, chamfers, etc.
*** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus square of Inner Working Dia. multiplied by π/2 for each brake.)

(A) 226.82x50.8x5.89 (8.93x2.0x0.232 nom. thickness)

(B) 251.46x50.8x5.99 (9.90x2.0x0.236)

(C) 294.13x50.4x6.91 (11.58x2.0x0.272 nom. thickness

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1977 MVMA Specifications Form

Passenger Car

Manufacturer	Car Line	
Buick Motor Division General Motors Corporation	Skyhawk/Skylark	
Mailing Address 1051 E. Hamilton Avenue Flint, Michigan 48550	Model Year 1977	Issued 9-30-76 Revised (e)

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MVMA Specifications Form
Passenger Car

Car Line: Buick Skyhawk/Skylark
Model Year: 1977 Issued: 9-30-76 Revised (●)

Engine Displacement

		Skyhawk		Skylark
Drive Units—Clutch (Manual Transmission)				
Make & type			Chevrolet-Single Plate	
Type pressure plate springs			Flat Belleville	
Total spring load (lb)		1460-1630		1875
No. of clutch driven discs			One	
Clutch facing	Material		Woven Asbestos	
	Manufacturer		Borg & Beck	
	Part number	364797		340227
	Rivets/Plate	36		36
	Rivet size			
	Outside & inside dia	9.12 x 6.12		10.00 x 6.00
	Total eff. area (sq. in.)	71.78		100.48
	Thickness		.135	
	Engagement cushioning method		Flat Spring	
Release bearing	Type & method of lubrication		Balls- Permanent	
Torsional damping	Methods, springs, friction material		Coil Springs - Steel Friction	
Drive Units—Transmissions				
Manual 3-speed (std. opt. N.A.)		NA		Standard
Manual 4-speed (std. opt. N.A.)		Standard		NA
Automatic (std. opt. N.A.)		Optional		Optional
		Optional		NA
Drive Units — Manual Trans.				
Number of forward speeds		Four	Five	Three
Transmission ratios	in first	3.11	3.40	3.11
	in second	2.20	2.08	1.84
	in third	1.47	1.39	1.00
	in fourth	1.00	1.00 (.80 OD fifth)	-
	in reverse	3.11	3.36	3.22
Synchronous meshing, specify gears		All Forward	All Forward	All Forward
Shift lever location		Floor		Steering Column
Lubricant	Capacity (pt.)	3.12	3.50	3.12
	Type recommended	Multi-purpose	Dexron(R) II auto trans fluid	Multi-purpose
	SAE viscosity number: Summer	80-90		80-90
	SAE viscosity number: Winter	80		80
	SAE viscosity number: Extreme cold	80		80

MVMA Specifications Form
Passenger Car

Car Line: Skyhawk/Skylark
Model Year: 1977 Issued: 9-30-76 Revised (●)

Body Type And/Or Engine Displacement	
Skyhawk	Skylark

Brakes — Service

Brake Type (std opt N A)	Drum	Front	-		
		Rear	Standard		
	Disc	Front	Standard		
		Rear	-		
Self adjusting (std opt N A)			Standard		
Special Valving	Type (proportion delay metering other)		Metering and Proportioning Failure Warning		
Power Brake (std opt N A)			Optional		
Booster Type (remote integral etc)			Vacuum Suspended		
Effective area (sq in)*			93.98	108.0	
Gross lining area (sq in)**			93.98	122.36	
Swept area (sq in)***			264.7	362.58	
Drum	Diameter (nominal)	Front	-	-	
		Rear	9.5	9.5	
	Type and material		Composite Cast Iron		
Rotor	Outer working diameter		10.00	11.0 inches	
	Inner working diameter		6.40	7.0 inches	
	Thickness		.88	1.0 inch	
	Material & type (vented/solid)		Cast iron, integral w/hub vented		
Wheel cylinder bore	Front		2.5	2.94	
	Rear		.6825	.938	
Master Cylinder	Bore		.875	1.125	
	Stroke		1.159	1.408	
Pedal ratio (std)			4.00	6.29 (Manual) 3.54 (Power)	
Line pressure at 100 lb pedal load				610 (Manual) 860 (Pwr) @20" vac	
Shoe clearance	Front		Self-Adjusting		
	Rear		Self-Adjusting		
Anti-skid device type (std opt N A)			Not Available		
Brake lining	Bonded or riveted rivets/seg		Frt - intake molded, rr - riveted	Riveted	
	Rivet size		-		
	Manufacturer		-		
	Part number		-		
	Front Wheel — Material		Metallic	Asbestos inner, metallic outer	
	Front Wheel — Size (length x width x thickness)	Prim or outboard	4.00x1.60x0.370	5.40x1.93x0.46	
			-	-	
		Second or inboard	4.00x1.60x0.370	5.40x1.93x0.46	
			-	-	
	Front Wheel — Segments per shoe		One		
	Front Wheel — Shoe thickness				
	Rear Wheel — Material		Asbestos		
	Rear Wheel — Size (length x width x thickness)	Prim or outboard	7.63x2.0x0.20	7.63x2x0.190 nominal	
			-		
		Second or inboard	9.91x2.0x0.20	9.91x2x0.270 nominal	
	Rear Wheel — Segments per shoe		One		
	Rear Wheel — Shoe thickness				

* Excludes rivet holes, grooves, chamfers etc
** Includes rivet holes, grooves, chamfers etc
*** Total swept area for four brakes (Drum brake: Widest lining contact width for each brake x its contact circumference) (Disc brake: Square of Outer Working Dia. minus square of Inner Working Dia. multiplied by π/2 for each brake)