

AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	CHEVROLET
MAILING ADDRESS	Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR	1966
		ISSUED:	10/7/65
		REVISED:	

NOTES:

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

TABLE OF CONTENTS

General Specifications	1,2	Drive Units	14	Suspensions	21
Engine—Mechanical	3	Brakes	18	Weights	24
Electrical	12	Steering	19	Index	25

BODY—TYPES AND STYLE NAMES—		Body type, number of passenger & style names; use manufacturer's code for series & body style.		
		396 cu. in. V-8 325 HP RPO - L35	427 cu. in. V-8 390 HP RPO - L36	V-8 425 HP RPO - L72
BISCAYNE				
2-Door Sedan - 6-Passenger			15411	
4-Door Station Wagon - 2-Seat			15435	
4-Door Sedan - 6-Passenger			15469	
BEL AIR				
2-Door Sedan - 6-Passenger			15611	
4-Door Station Wagon - 2-Seat			15635	
4-Door Station Wagon - 3-Seat			15645	
4-Door Sedan - 6-Passenger			15669	
IMPALA				
4-Door Station Wagon - 2-Seat			16435	
4-Door Sport Sedan - 6-Passenger			16439	
4-Door Station Wagon - 3-Seat			16445	
2-Door Sport Coupe - 5-Passenger			16437	
2-Door Convertible - 5-Passenger			16467	
4-Door Sedan - 6-Passenger			16469	
IMPALA SUPER SPORT				
2-Door Sport Coupe - 4-Passenger			16837	
2-Door Convertible - 4-Passenger			16867	
CAPRICE				
4-Door Custom Wagon - 2-Seat			16635	
4-Door Custom Sedan - 6-Passenger			16639	
4-Door Custom Wagon - 3-Seat			16645	
2-Door Custom Coupe - 4-Passenger			16647	

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED (a)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	15400 - 600	Additional Information Page No.:	396 Cu. In. V-8		427 Cu. In. V-8		
	16400 - 600		325 HP RPO L35		390 HP RPO L36	425 HP RPO L72	
	16800						
Wheelbase (L101)			119.0				
Track	Front (W101)	62.5; Wagons, 63.5					
	Rear (W102)	62.4; Wagons, 63.4					
Maximum Overall Dimensions	Length (L103)	213.2; Wagons, 212.4					
	Width (W103)	79.6; Bel Air Models 80.0					
	Height (H101)	Sedans 55.4	Coupes 54.4	Conv. 55.3	Sp.Sed. 54.5	Wagons 56.7	
Transmission (Specify make name - opt., not available)	Manual - 3 speed	15	Standard				
	Manual - 4 speed	15	Optional				
	Overdrive	15	NA				
	Automatic	16	Powerglide and Turbo Hydra-matic	Turbo Hydra-matic	NA		
Axle ratio	Manual - 3 speed	17	3.31				
	Manual - 4 speed	17	3.31			3.31 (a)	
	Overdrive	17	NA				
	Automatic	17	Powerglide 3.07 Hydra-matic 2.73 7.75 x 14	Hydra-matic 2.73 NA			
Tire size		18	Wagons, 8.55x14		8.25 x 14; Wagons,	8.55 x 14	
Engine	Type, no. cyl., valve arr.	3	90° OHV V-8				
	Fuel system (Carb., other)	10	Carburetor				
	Bore and stroke	3	4.094 x 3.76		4.251 x 3.76		
	Piston displ., cu. in.	3	396		427		
	Std. compression ratio	3	10.25:1			11.0:1	
	Max. bhp at engine rpm	3	325 @ 4800		390 @ 5200	425 @ 5600	
	Max. torque at rpm	3	410 @ 3200		460 @ 3600	460 @ 4000	

(a) Optional 3.55, 3.73, 4.10, 4.56 and 4.88 axle ratios also available optionally with optional 4-Spd (2.20:1 low) transmission.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(a)

GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	Sedans		Sport Sedans	Sp. Coupes		Convert.	St. Wagons
		2-Dr.	4-Dr.		37	47		

FRONT COMPARTMENT

Shoulder room	W3	62.3		62.4		62.3	
Hip room	W5	63.9		63.7		63.9	
Max. eff. leg room - accelerator	L34	42.2		42.3		42.0	
Effective head room	H61	39.1		38.1		38.2	
H Point to Heel point	H30	9.0		9.2		9.4	

REAR COMPARTMENT

Shoulder room	W4	60.7		61.3		61.0	
Hip room	W6	62.2		62.9		63.0	
Minimum effective leg room	L51	38.9		39.5		38.5	
Effective head room	H63	37.8		37.3		37.2	

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	18.3		17.3		20.7	
Liftover height	H195	24.8		25.3		24.7 (a)	
Position of spare tire storage		Trunk Shelf		Trk. Floor		Rt. RR Qtr. Under Cover	
Method of holding lid open		Torsion Bars Counter Balanced					

STATION WAGON—THIRD SEAT

Hip room	W86	49.2	
Effective leg room	L86	33.3	
Effective head room	H86	36.2	
Seat facing direction		Rearward	

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	154-156-164-16635, 45
Minimum distance between wheel houses at floor level	W201	49.7
Rear end opening width at belt	W204	52.4
Floor length from back of front seat at floor level to inside of closed tail gate	L202	96.0
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	86.0
Maximum height - floor covering to headlining at centerline of rear axle	H201	30.7
Maximum height of rear opening - tail and lift gates open	H202	28.8
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	94.1

(a) 23.5 on 3-Seat Wagons.

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED	(1)
	15400-600						
	16400-600	396 Cu. In. V-8		427 Cu. In. V-8			
MODEL	16800	325 HP RPO L35	390 HP RPO L36	425 HP RPO L72			

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° OHV V-8		
Bore and stroke (nominal)		4.094 x 3.76	4.251 x 3.76	
Piston displacement, cu. in.		396	427	
Bore spacing (C/L to C/L)		4.84		
No. system (front to rear)	L. Bank	1-3-5-7		
	R. Bank	2-4-6-8		
Firing order		1-8-4-3-6-5-7-2		
Compres. ratio (nominal)		10.25:1	11.0:1	
Cylinder Head Material		Cast alloy iron		
Cylinder Block Material		Cast alloy iron		
Cylinder Sleeve-Wet, dry, none		None		
Number of mounting points	Front	Two		
	Rear	One		
Engine installation angle		3° 54'		
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	53.6	57.8	
Publishing max. bhp* @ eng. RPM		325 @ 4800	390 @ 5200	425 @ 5600
Publishing max. torque* (lb. ft. @ RPM)		410 @ 3200	460 @ 3600	460 @ 4000
Recommended fuel regular - premium		Premium		
Idle speed (spec. neutral or drive)	Manual	500 in neutral	600 in neutral	750-800 in neutral
	Automatic	475 in drive	525 in drive	

ENGINE—PISTONS

Material	Cast aluminum alloy		Alum. impact extruded
Description and finish	Domed head, valve cutout, slipper skirt		
Weight (piston only) oz.	29.31	28.00	25.46
Clearance (limits)	Top land	.0305-.0375	
	Skirt	Top	.0265-.0335
		Bottom	.0037-.0043(b)
Ring groove depth	No. 1 ring	.2253-.2318	.2348-.2413
	No. 2 ring	.2253-.2318	.2348-.2413
	No. 3 ring	.2098-.2168	.2183-.2248
	No. 4 ring	None	

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

(a) Measured 1.95 from top of piston.

(b) Measured 1.89 from top of piston.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED 10-7-65

POWER TEAMS

(Indicate whether standard or optional)

(Indicate whether standard or optional)										
MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)			
	Displ. cu. in.	Carburetor	Comp. Ratio	BHP @ RPM	Torque @ RPM		A	B	C	D
15400 15600 16400 16600 16800	396 *	Quadra- jet or 4-Bbl	10.25 :1	325 @ 4800	410 @ 3200	3-Spd. Heavy Duty	3.31	--	--	3.31
						4-Speed*	3.31	--	--	3.31
						Powerglide*	3.07	--	--	3.31
						*Turbo Hydra-Matic	2.73	--	--	2.73
	427 *	4-Bbl	10.25 :1	390 @ 5200	460 @ 3600	3-Spd. Heavy Duty	3.31	--	--	3.31
						4-Speed*	3.31	--	--	3.31
						*Turbo Hydra-Matic	2.73	--	--	2.73
						4-Spd.(2.52 low)*	3.31	--	--	--
	4-Spd.(2.20 low)*	3.31	3.55	4.10	--					
								3.73	4.56	
								4.88		
* - Optional										
A - General Purpose Standard (also available as positraction)										
B - Performance - optional (also available as positraction)										
C - High performance - optional (available as positraction only)										
D - Air Conditioning (also available as positraction)										

AMA Specifications—Passenger Car

Page 5

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(a)
 15400-600 396 Cu. In. V-8 427 Cu. In. V-8
 16400-600 325 HP RPO L35 390 HP RPO L36 | 425 HP RPO L72
 MODEL 16800

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression	
	No. 2, oil or comp.	Compression	
	No. 3, oil or comp.	Oil control	
	No. 4, oil or comp.	None	
Compression	Description - Upper	Cst Aly Iron (a)	Cst Aly Iron, inside bevel (a)
	material, coating, etc.	Cst Aly Iron-inside bevel-Wr resistant	Cst Aly Iron, inside bevel, wear resistant coating L36; Chrome pl L72
	Width	.0770-.0775	
	Gap	.010-.020	
Oil	Description -	Multi-piece (2 rails and one spacer expander)	
	material, coating, etc.	Rails - steel, chrome plated OD Expanders - stainless steel	
	Width	.1830-.1880 (assembled)	
	Gap	.010-.030	
Expanders		In oil ring assembly	

ENGINE—PISTON PINS

Material		Chromium steel	
Length		2.930-2.950	
Diameter		.9895-.9898	
Type	Locked in rod, in piston, floating, etc.	Locked in rod	
	Bushing	None	
	In rod or piston Material	---	
Clearance	In piston		
	In rod	.00025-.00035	.00030-.00040
Direction & amount offset in piston		Major thrust side .055-.065	On center

ENGINE—CONNECTING RODS

Material		Drop forged steel	High alloy steel
Weight (oz.)		27.84	
Length (center to center)		6.134-6.136	
Bearing	Material & Type	Premium aluminum	
	Overall length	.847	
	Clearance (limits)	.0009-.0025	.0014-.0030
	End play	.016-.020	

(a) Molybdenum filled groove

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(a)
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 16400-600
 MODEL 16800 325 HP RPO L35 390 HP RPO L36 425 HP RPO L72

ENGINE—CRANKSHAFT

Material		Forged steel	
Vibration damper type		Rubber mounted inertia damper	
End thrust taken by bearing (No.)		Five	
Crankshaft end play		.006-.010	
Main bearing	Material & type		Premium aluminum except No. 5 sintered copper nickel backed babbitt
	Clearance		(#1-4) .0006-.0022 (#5) .0013-.0029 (#1-4) .0013-.0029; (#5) .0017 (-.0033)
	Journal dia. and bearing overall length	No. 1	2.7507 x .992 2.7508 x .992
		No. 2	2.7507 x .992 2.7508 x .992
		No. 3	2.7501 x .992 2.7508 x .992
		No. 4	2.7501 x .992 2.7508 x .992
		No. 5	2.7504 x 1.2525 2.7508 x 1.2525
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter		2.199-2.200	

ENGINE—CAMSHAFT

Location	In block above crankshaft		
Material	Cast alloy iron		
Bearings	Material	Steel backed babbitt	
	Number	Five	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Steel sprocket	
	Camshaft gear or sprocket material	Cast aluminum sprocket	
	Timing chain	No. of links	50
		Width	.880
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	Standard		N.A.
Valve rotator, type (intake, exhaust)	None		
Rocker ratio	1.70:1		
Operating taper clearance (indicate hot or cold)	Intake	Zero	.024
	Exhaust	Zero	.028
Timing marks on flywheel, damper, other	Torsional damper		

(Continued)

AMA Specifications—Passenger Car

Page 7

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED	"1"
	15400-15600	396 Cu. In. V-8		427 Cu. In. V-8			
MODEL	16400-600	325 HP RPO L35		390 HP RPO L36		425 HP RPO L72	
	16800						

ENGINE—VALVE SYSTEM (cont.)

Timing (A)	Intake	Opens (°BTC)	40°	56°	54°	
		Closes (°ABC)	102°	114°	102°	
		Duration-deg.	322°	350°	336°	
	Exhaust	Opens (°BBC)	87°	110°	102°	
		Closes (°ATC)	55°	62°	54°	
		Duration-deg.	322°	352°	336°	
	Valve opening overlap		95°	118°	108°	
Intake	Material		Alloy steel - aluminized face; chrome flash stem on L72			
	Overall length		5.125-5.235	5.204-5.244		
	Actual overall head dia.		2.060-2.070	2.185-2.195		
	Angle of seat & face		46° (seat) 45° (face)			
	Seat insert material		None			
	Stem diameter		.3715-.3722			
	Stem to guide clearance		.0010-.0027			
	Lift (@ zero lash)		.3983	.4614	.5197	
	Outer spring press. and length	Valve closed (lb. @ in.)	84-96 @ 1.88	94-106 @ 1.88		
		Valve open (lb. @ in.)	210-230 @ 1.46	303-327 @ 1.38		
	Inner spring press. and length	Valve closed (lb. @ in.)	Spring damper			
		Valve open (lb. @ in.)	Spring damper			
	Exhaust	Material		High alloy steel - aluminized face; chrome flash stem on L72		
		Overall length		5.345-5.365		
		Actual overall head dia.		1.715-1.725		
Angle of seat & face		46° (seat) 45° (face)				
Seat insert material		None				
Stem diameter		.3713-.3720				
Stem to guide clearance		.0015-.0032				
Lift (@ zero lash)		.3983	.4800	.5197		
Outer spring press. and length		Valve closed (lb. @ in.)	84-96 @ 1.88	94-106 @ 1.88		
		Valve open (lb. @ in.)	210-230 @ 1.47	303-327 @ 1.38		
Inner spring press. and length		Valve closed (lb. @ in.)	Spring damper			
		Valve open (lb. @ in.)	Spring damper			

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	Centrifugally oiled from front camshaft bearing
	Cylinder walls	Pressure, jet cross sprayed

(Continued)

(A) Values for RPO L35 & L36 include ramps.

Values for RPO L72 are given with lash of .024 intake and .028 exhaust. Form Rev. 4-65

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED ^(*)
	15400-600	396 Cu. In. V-8	427 Cu. In. V-8			
	16400-600					
MODEL	16800	325 HP RPO L35	390 HP RPO L36	425 HP RPO L72		

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	50-75 PSI @ 2000
Oil pressure sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full flow
Filter replacement (element, complete)	Element
Capacity of crankcase, less filter-refill (qt.)	4
Oil grade recommended (SAE viscosity and temperature range)	32° F and above ----- SAE20W, SAE20 or SAE10W-30 0° F and above ----- SAE10W or SAE10W-30 Below 0° F ----- SAE5W or SAE5W-20
Engine Service Requirement (MM, MS, etc.)	MS or DG

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with crossover	Dual	
Muffler No. & type (reverse flow, straight thru, separate resonator)	One with resonator	Two with resonators	Two, reverse flow
Exhaust pipe dia. (O.D., wall thickness)	Branch Main	2.50 x .082-.098	
		2.50 x .073-.091 Laminated	
Tail pipe diameter (O.D. & wall thickness)		2.00 x .062-.076	

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system	
	Optional		
Control Unit	Make and model		
	Location	Rear of carburetor	
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
	Control method (variable orifice, fixed orifice, other)	Variable orifice	Fixed orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
	Air inlet (breather cap, carburetor air cleaner, other)	Breather cap	Carburetor air cleaner
	Flame arrestor (screen, check valve, other)	Check valve	Screen

* SAE5W-30 can be used as an alternate for 5W; 5W-20 or 10W-30

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED ^(a)
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	16400-600					
MODEL	16800	325 HP RPO L35		390 HP RPO L36		

ENGINE—EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Air injection	
Air Injection Pump	Type	Semi-articulated vane type	
	Displacement	19.3 Cubic Inches	
	Drive ratio	1.25:1	
	Drive type	Crankshaft pulley	
	Relief valve (type)	Pressure (plate type)	
	Filter (describe)	None (clean air drawn from air cleaner)	
Air Injection System	Air distribution (head, manifold, etc.)	Inlet manifold	
	Point of entry	Exhaust ports	
	Injection tube I.D.	.2565	
	Check valve type	Pressure (plate type)	
	Backfire protection (type)	Vacuum actuated anti-backfire valve	
Carburetor	Make	Rochester	Rochester
	Model (a)	7036201	7036205
	Barrel size	1.38 (Prim.) 2.25 (Sec.)	1.38 (Prim.) 2.25 (Sec.)
	Idle speed	500 for Automatic	550 for Automatic
	Drive Neutral	550 for Manual	550 for Manual
	Aux. Adv. Systems (type)	Delco-Remy	
	Make	1111109	1111112
	Model	900	
Distributor	Cent'gal adv. in crank degrees @ eng. rpm.	Start (rpm)	
		Intermed. points deg. @ rpm	
		Max. deg. @ rpm.	30 @ 5000
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in Hg)	8
		Intermed. points deg. @ in. Hg	6
		Max. deg. @ in.	20 @ 17.0
			15 @ 12.0
	Vacuum Source		
Timing - Crank degrees @ rpm		4° BTDC @ 550 RPM	
Cooling System (describe changes)			
Exhaust System (describe changes)			

(a) Powerglide Models 396 Cu. In. (7036200); 427 Cu. In. RPO L36 (7036204)

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED	(a)
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	16400-600						
MODEL	16800		325 HP RPO L35		390 HP RPO L36		425 HP RPO L72

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 (gals.)	20 (24 on Sta. Wagons) approximately
	Filler location	Behind hinged rear license plate (a)
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Lower right front corner of engine
	Pressure range	5.00-6.50 psi 7.00-8.50 psi
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Fine mesh plastic strainer in gas tank
	Locations	Sintered bronze filter in carburetor inlet
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Standard Oil-wetted paper element
	Optional	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
15400	396	3-Speed & 4-Speed	Holley	3874898	Four Bbl	1.562 P&S
			Rochester	7026201	Quad-Jet	1.39P;2.25S
		Powerglide & Turbo Hydra-matic	Holley	3868864	Four Bbl	1.562 P&S
			Rochester	7026200	Quad-Jet	1.39P;2.25S
	427 390HP	3-Speed & 4-Speed	Rochester	7026205	Quad-Jet	1.39P;2.25S
			Holley	3874898	Four Bbl	1.562 P&S
15600		Turbo Hydra-matic	Rochester	7026204	Quad-Jet	1.39P;2.25S
16400			Holley	3868864	Four Bbl	1.562 P&S
16600	427 425HP	4-Speed (2.20 low)	Holley	3882835	Four Bbl	1.562 P&S
16800			Holley	3885067	Four Bbl	1.686 P&S
		4-Speed (2.20 low)	Holley	3868826	Four Bbl	1.686 P&S

(a) Left rear quarter panel on Station Wagons.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(*)

15400-600 396 Cu. In. V-8 427 Cu. In. V-8
16400-600
MODEL 16800 325 HP RPO L35 390 HP RPO L36 425 HP RPO L72

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure		
Radiator cap relief valve pressure	15 ± 1 PSI		
Circulation Type (choke, bypass)	Choke		
thermostat Starts to open at (°F)	177° - 183° F		
Water pump Type (centrifugal, other)	Centrifugal		
GPM @ 1000 pump rpm	82 @ 5200		
Number of pumps	One		
Drive (V-belt, other)	V-belt		
Bearing type	Double row ball		
By-pass recirculation type (internal, external)	External		
Radiator core type (cellular, tube and fin, other)	Tube on center		
Cooling system capacity With heater (qt.)	23	22	23
Without heater (qt.)	22	21	22
Opt. equipment-specify (qt.)	23	22	22
Water jackets full length of cylinder (yes, no)	Yes		
Water all around cylinder (yes, no)	Yes		
Radiator hose	Lower	Number and type (molded, straight)	One, molded
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One, molded
		Inside diameter	.745
Fan	Number of blades & spacing	4 staggered	5 staggered
	Diameter	17.62	18.80
	Ratio-fan to crankshaft rev.	.949:1	
	Fan cutout type	None	*
	Bearing type	Double row ball	
* Drive belts (indicate belt used by letter)	Fan	A	DE
	Generator or alternator	A	D
	Water Pump	A	DE
	Power Steering	B	F
	Air Conditioning	C	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V				38° - 42°							
Nominal length (SAE)	56.20	35.00	60.75	55.50	43.00	37.30					
Width					.380						

* Thermomodulated - viscous coupling

Form Rev. 4-65

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(a)
 15400-600 396 Cu. In. V-8 427 Cu. In. V-8
 16400-600 325 HP RPO L35 390 HP RPO L36 425 HP RPO L72
 MODEL 16800

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1983506	
	Voltage Rtg. & Total Plates		12 Volt; 66 plates	
	SAE Designation & Amp Hr. Rtg.		61 Amp hr @ 20 Hr rate	
	Location		Right front engine compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco-Remy	
	Model		#1100693	
	Type and rating		Diode rectified (37 amps)	
	Output at engine idle (neutral)		13 amps	15 amps 24 amps
	Ratio—Gen. to Cr/s rev.		2.46:1	
Regulator	Make		Delco-Remy	
	Model		#1119515	
	Type		Vibrator	
	Cutout relay	Closing voltage @ generator rpm		
		Reverse current to open		
	Regulated	Voltage	13.8-14.8 @ 85° F	
		Current		
	Voltage test conditions	Temperature	Operating	
		Load	3-8 amperes	
		Other	None	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		1107365
	Rotation (drive and view)		Clockwise
	Engine cranking speed		
	Test conditions		Engine at operating temperatures
	No load test	Amps	65-100
		Volts	10.6
RPM (min)		3600-5100	
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		3 Spd - 4 Spd - place gearshift lever in neutral & depress clutch to floor. Powerglide - place control lever in N or P position. Initial start - press accelerator pedal to floor once to set automatic choke, then release. Turn ignition to START. release as soon as engine starts.

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ⁽¹⁾
15400-600 396 Cu. In. V-8 427 Cu. In. V-8
16400-600 325 HP RPO L35 390 HP RPO L36 425 HP RPO L72
 MODEL 16800

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Positive shift solenoid		
	Pinion meshes (front, rear)		Rear		
	Number of teeth	Pinion	9		
		Flywheel	168		
	Flywheel tooth face width	Manual	168		N.A.
		Auto.	.4100-.4220		N.A.

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Optional		
	Make		Delco-Remy		
	Model		1115204		
	Amps	Engine stopped	4.0		
Engine idling		1.8			
Distributor	Make		Delco-Remy		
	Model		1111109	1111112	1111100
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	900		
		Intermediate points deg. @ rpm.			
		Max. deg. @ rpm.	30 @ 5000	30 @ 5000	28 @ 4400
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	8	6	7
		Intermediate points, deg. @ in. Hg.			
		Max. deg. in. Hg.	20 @ 17.0	15 @ 12.0	12 @ 12
	Breaker gap (in.)		.019		
	Cam angle (deg.)		28° - 32°		
Breaker arm tension (oz.)		19-23 oz			
Timing	Crankshaft deg. @ rpm.		4° BTDC		8° BTDC
	Mark location		Torsional damper		
Spark Plug	Make		AC spark plug		
	Model		AC43N		
	Thread (mm)		14		
	Tightening torque (lb. ft.)		25		
	Gap		.033-.038		
Cable	Conductor type		Linen core impregnated with electrical conducting mat'l.		
	Insulation type		Rubber with neoprene jacket		
	Spark plug protector		Neoprene		

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(a)
 15400-600
 16400-600
 MODEL 16800 396 Cu. In. & 427 Cu. In. .

ELECTRICAL—SUPPRESSION

Locations & type

Non-metallic high tension cables

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speedometer	Make	AC
	Trip odometer (yes, no)	NA
Charge indicator—type		Tell-Tale(a)
Temperature indicator—type		Tell-Tale (red, hot-green, cold)(a)
Oil pressure indicator—type		Tell-Tale(a)
Fuel indicator—type		Electric gage
Other		None
Windshield wiper	Make	Delco
	Type—Standard	Electric, two-speed
	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	Pushbutton - standard
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	8.00-11.0 @ 12.5 V

DRIVE UNITS—CLUTCH (Manual Transmission) 3-Speed & 4-Speed

Make & type		Chevrolet, single dry disc, centrifugal
Type pressure plate springs		Diaphragm bent finger design
Total spring load (lb.)		2300-2600 (2600-2800 on 427 Cu. In. RPO L72)
No. of clutch driven discs		One
Clutch facing	Material	Woven type asbestos
	Outside & inside dia.	11.0 & 6.5
	Total eff. area (sq. in.)	123.7
	Thickness	.140 each
	Engagement cushioning method	Flat spring steel between facings
Release bearing	Type & method of lubrication	Single row ball, packed and sealed
Torsional damping	Methods: springs, friction material	Coil springs

(a) Model 16647 Bucket seat option, gages for generator, temp. oil pressure, vacuum gage.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ¹⁰⁰
 15400-600
 16400-600
 MODEL 16800 396 Cu. In. & 427 Cu. In.

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	N.A.
Automatic (std. or opt.)	Powerglide optional with 396 cu. in.; Turbo Hydra-Matic optional with 396 cu. in. & 427 cu. in. RPO L36

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		3-Speed Hvy. Dty RPO L35, L36, L72	4-Speed RPO L35, L36, L72	4-Speed Close Ratio RPO L72
Transmission ratios	In first	2.41	2.52	2.20
	In second	1.57	1.88	1.64
	In third	1.00	1.46	1.27
	In fourth	---	1.00	1.00
	In reverse	2.41	2.59	2.26
Synchronous meshing, specify gears		All forward gears		
Shift lever location		Steering column	Floor	
Lubricant	Capacity (qt.)		2	2.5
	Type recommended		Military Spec. MIL-L-2105-B	
	SAE viscosity number	Summer	SAE 80	
		Winter	SAE 80	
Extreme cold		SAE 80		

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Type (planetary or other)		
Manual lockout (yes, no)		
Downshift accelerator control (yes, no)		
Minimum cut-in speed		NOT
Gear ratio		
Lubricant	Capacity (qt.) (Overdrive only)	
	Separate filter (yes, no)	AVAILABLE
	Type recommended	
	SAE viscosity number	Summer
		Winter
		Extreme cold

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(a)
 15400-600
 16400-600
 MODEL 16800 396 Cu. In. V-8 396 Cu. In. & 427 Cu. In. (RPO L36)

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Powerglide	Turbo Hydra-Matic
Type describe	Torque converter with planetary gears	
Method of Selection (Lever, Push Button or other)	Lever, steering column mounted; floor mounted when used with optional bucket seats on 16400 & 16600	
Selector Pattern	P-R-N-D-L	P-R-N-D-L ₂ -L ₁
List gear ratios Selector Pattern and indicate which are used in each selector position	D - 1.76 & 1.0 L & R - 1.76	L ₁ - 2.48 L ₂ - 2.48, 1.48 D - 2.48, 1.48, 1.0 R - 2.08
Max. upshift speeds—drive range	58	(2-3) 85 (1-2) 52
Max. kickdown speeds—drive range	59	(3-2) 77 (2-1) 40
Torque converter	Number of elements	3
	Max. ratio at stall	2.10
	Type of cooling (air, liquid)	Water
Lubricant	Capacity—refill (qt.)	3 8
	Type recommended	A Suffix A
Special transmission features		

DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Tubular, exposed
Outer diameter x length* x wall thickness	Manual 3-speed transmission	3.25 x 62.16 x .065
	Manual 4-speed transmission	Same as 3-speed
	Overdrive transmission	N.A.
	Automatic transmission	Same as 3-speed

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED (*)

MODEL 396 V-8 427 V-8

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter- mediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		
Universal joints	Make		Chevrolet
	Number used		Two
	Type (ball and trunnion, cross, other)		Cross
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Pre-pack
Drive taken through (torque tube or arms, springs)			Control arms
Torque taken through (torque tube or arms, springs)			Control arms

DRIVE UNITS—REAR AXLE

Description		Standard, semi-floating, overhung pinion gear	
Limited Slip differential, type		Standard with dual disc clutches	
Drive Pinion Offset		1.5	
No. of differential pinions		Standard, 2; limited slip, 4	
Ring gear O.D. (std. ratio)		3.31, 8.875; 3.07, 8.125	3.31, 8.875; 2.73, 8.125
Pinion adjustment (shim, other)		None	
Pinion bearing adj. (shim, other)		Shim	
Wheel bearing type		Single row cylindrical roller	
Lubricant	Capacity (pt.)	8.875 ring gear, 4.0	
	Type recommended	Military Spec. MIL-L-2105-B	
	SAE vis- cosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio		3.31, 3.07, 2.73	
No. of teeth	Pinion	13, 14	
	Ring gear	43, 43	

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(a)

MODEL 396 V-8 427 V-8

DRIVE UNITS—WHEELS

Type & material	Short spoke disc, steel	
Rim (size and flange type)	Std.	14 x 5J, exc. wagons 14 x 6JK
	Opt.	14 x 6JK exc. wagons 15 x 5K (with 15 in. tires)
Attachment	Type (bolt or stud)	Bolt
	Circle diameter	4.75
	Number and size	5 hex. nuts 7/16-20 UNF-2B

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.75 x 14-4 (a)	8.25 x 14-4 PR (a)
	Type - Nylon, etc.	Rayon	
Rev/mile at 50 mph.		774	755
Inflation press. (cold)	Front	24	
	Rear	24 except wagons 28	
Optional tires - size and ply		7.75 x 14-4 & 8	8.25 x 14-4 & 8
		7.75 x 15-4 & 8	8.55 x 14-4 & 8 Ply
		8.15 x 15-4	

BRAKES—SERVICE

		Standard	Metallic (optional)
Type (dual-servo, disc, balanced, etc.)		Duo-servo 4-wheel hydraulic	
Self adjusting (std., opt., N.A.)		Standard reverse	
Hydraulic system type (single, dual, etc.)		Single	
Power brake make & type (remote, integral, etc.)		Bendix, Delco-Moraine vacuum power unit, integral	
Effective area (sq. in.) *		183.4	145.2
Gross lining area (sq. in.) **		198.4	145.2
Swept drum area (sq. in.) ***		328.3	
Percent brake effectiveness—front		58.5	
Drum or Rotor	Diameter	Front	11.0
		Rear	11.0
	Type and material	Composite; rim, cast iron; web, steel	
	Rotor (vented or solid)		
Wheel cyl- inder bore	Front	1.1875	
	Rear	1.00	
Master cylinder bore		1.00	.875
Available pedal travel		6.48	
Line pressure at 100 lb. pedal load		717	936
Shoe clearance adjustment		Self-adjusting	

* 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 drum circumference.

(Continued)

(a) 8.55 x 14-4 on wagons

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ⁽⁸⁾

MODEL

BRAKES—SERVICE (cont.)				STANDARD	OPTIONAL
Brake lining	Drum or Disc			Drum	
	Banded or riveted			Bonded	Welded
	Front Wheel	Material		Molded Asbestos	Sintered iron
		Size (length x width x thickness)	Prim. or out- board	9.25 x 2.75 x .168	1.64 x 1.37 x .175
			Secend. or in- board	9.25 x 2.00 x .168	2.00 x 1.00 x .175
		Segments per shoe			
	Rear Wheel	Material		Molded asbestos	Sintered iron
		Size (length x width x thickness)	Prim. or out- board	11.63 x 2.75 x .168	1.64 x 1.37 x .295
			Secend. or in- board	11.63 x 2.00 x .168	2.00 x 1.00 x .295
		Segments per shoe		1	Front 12; Rear 10

BRAKES—PARKING

Type of control	Foot pedal apply, "T" handle release	
Location of control	Left of steer column, under instr. panel	
Operates on	Rear service brakes	
If sepa- rate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

FRAME

Type and description (Separate frame, unitized frame, partially-unitized frame)	All welded perimeter frame with front crossmember, rear axle upper control arm crossmember, rear shock absorber crossmember, and a rear crossmember. Welded box-construc- tion side rails from front crossmember to aft of rear axle / kickup.
--	--

STEERING

Manual (std., opt., NA)			Standard			
Power (std., opt., NA)			Optional			
Adjustable steering wheel (tilt, swing, other)		Type and description	Tilt: seven position with five inch vertical travel			
		(std., opt., NA)			Optional	
Wheel diameter		Manual	16.5			
		Power	16.5			
Turning diameter	Outside front	Wall to wall (l. & r.)	44.1			
		Curb to curb (l. & r.)	40.8			
	Inside rear	Wall to wall (l. & r.)	24.2			
		Curb to curb (l. & r.)	24.5			
Outside wheel angle with inside wheel at 20°			20.29°			
Manual	Gear	Type	Semi-reversible, recirculating ball nut			
		Make			Saginaw	
		Ratios			Gear	24:1
					Overall	28.2:1
	No. wheel turns		5.42 (lock to lock)			

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED (00)

MODEL _____

STEERING (cont.)

Power	Type (coaxial, linkage, etc.).		Coaxial	
	Make		Saginaw	
	Gear	Type	Same as manual	
		Ratios	Gear	17.5:1
			Overall	19.4:1
	Pump driven by		Crankshaft pulley	
Number wheel turns		3.52 (lock to lock)		
Linkage	Type		Parallelogram	
	Location (front or rear of wheels, other)		Rear	
	Drag link (trans. or longit.)		None	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		7 to 8	
	Bearings (type)	Upper	Ball stud with non-metallic bearing surfaces	
		Lower	Ball stud with non-metallic bearing surfaces	
		Thrust	None required	
Wheel Alignment (range or curb weight and preferred)	Caster (deg.)		N 1/4 to P 3/4 (curb)	
	Camber (deg.)		N 1/4 to P 3/4 (curb)	
	Toe-in (outside track inches)		1/8 to 1/4 total (curb)	
Steering spindle & joint type			Forging with pad for mounting brake cylinder, spherical	
Wheel spindle	Diameter	Inner bearing	1.2493 - 1.2498	
		Outer bearing	.7492 - .7497	
	Thread size		3/4-20 NEF-3 (modified)	
	Bearing type		Taper roller	

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED (a)

MODEL _____

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling	Front stabilizer bar
Provision for brake dip control	Angle of front upper control arm
Provision for occ. squat control	Geometry of rear suspension
Special provisions for car jacking	Front wheel - place jack just outboard of bumper guard Rear wheel - approx. 2" outboard of bumper joint
Shock absorber front & rear	Type Make Piston dia.
	Direct, double-acting, hydraulic Delco 1.00
Other special features	Rear control arms shims for driveline alignment

SUSPENSION—FRONT

Type and description	Independent - SLA type with coil spring and concentric shock absorber and spherically - jointed steering knuckle for each wheel. Lower control arm strut-supported.
Spring	Type
	Coil, right hand helix
	Material
	Steel alloy
	Size (coil design height & I.D.; bar length x dia.) 11.76, 3.80 141.1 x .636
Stabilizer	Spring rate (lb. per in.)
	290
	Rate at wheel (lb. per in.) 140
Stabilizer	Type (link, linkless, frameless)
	Link
	Material & bar diameter
	HR steel; exc. Wags. .8125; wagons .9375

SUSPENSION—REAR

Type and description	(a)
Drive end torque taken through	Control arms
Spring	Type
	Coil, right hand helix
	Material
	Steel alloy
	Size (length x width, coil design height & I.D.; bar length & dia.) 12.37, 4.00 126.2 x .597
	Spring rate (lb. per in.)
	230
Stabilizer	Rate at wheel (lb. per in.)
	108.6
	Mounting insulation type
Stabilizer	None
	Type (link, linkless, frameless)
	None
	Material
Track bar type	Lateral, frame to rear axle

(a) Link type: except wagons, 2 lower control arms, 1 upper control arm, and tie rod; wagons, 2 upper and 2 lower control arms, and tie rod; support integral rear beam consisting of cast iron differential carrier and pressed in axle shaft housings.

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10/7/65	REVISED	(*)
MODEL	Sedans 2-Dr. 4-Dr.	Sport Sedans	Sport Coupes	Convertibles	Station Wagons		

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle indent. No. location		Left front body hinge pillar
Engine No. location		On pad, front right hand side of cylinder block
Theft protection - type		Shielded ignition lock terminals, key removable in "OFF" position
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	None
Seat cushion type	Front	Formed wire and foam pad
	Rear	Formed wire and foam pad
	3rd seat	
Seat back type	Front	Formed wire and cotton
	Rear	Formed wire and cotton
	3rd seat	
Windshield glass type (i.e., single curved - laminated plate)		Single curve, laminated
Side glass type (i.e., curved - tempered plate)		Curved, safety-solid plate
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound curve, solid tempered plate (a)
Windshield glass exposed surface area	1448.1	1384.3
Side glass exposed surface area	1383.7 1366.2	1417.0 1355.4
Backlight glass exposed surface area	1173.5	1213.6 1381.0
Total glass exposed surface area	4005.3 3987.8	4014.9 4100.7
		1448.1 1346.8 813.0 3544.1 4946.3

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	27.7	28.1	28.3	29.1
		Lowest	27.7	28.1	28.3	29.1
	Tail	Highest	23.0	22.8	23.5	24.8
		Lowest	23.0	22.8	23.5	24.8
Distance from C/L of car to center of bulb	Headlamp	Inside				
		Outside *				
	Tail	Inside				
		Outside				
	Directional	Front				
		Rear				

* If single headlamps are used enter here.

(a) Flat tempered plate on Convertible

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10/7/65 REVISED ^(*)

MODEL _____

CONVENIENCE EQUIPMENT

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

Power windows	Side Windows	Optional on models 155-15635-45-69-16000 *
	Vent Windows	NA
	Backlight or tailgate	Standard 3-Seat Wagons - Optional 2-Seat Wagons
Power seats (specify type as well as availability)	Seat, bucket; 4-way electric control (drivers, seat only) Models 16647-700-800 Seat, front; 6-way electric control, models/ *	
Reclining front seat back	NA	155-156-163-164-16600
Front seat headrest	Optional	
Radios (specify type as well as availability)	Optional - AM - manual, AM-pushbutton, AM-FM pushbutton	
Rear seat speaker	Optional	
Power Antenna	Optional	
Clock	Optional 15000	Standard 16000
Air Conditioner (specify type and availability)	Optional - four season and automatic temp control	
Speed warning device	NA	
Speed control device	Optional	
Ignition lock lamp	Standard	
Back up lamp	Standard	
Dome lamp	Standard	
Glove compartment lamp	Optional 153-15400 - Standard all other models	
Prkg. brake signal lamp	Optional 15000 - Standard 16000	
Luggage compartment lamp	Optional 15000 sedans - Standard 16000 Sedans and coupes	
Underhood lamp	Optional	
Courtesy lamp	Standard 16337-437-16367-467-16647-639* Opt all other models	
Map lamp	NA	
Auto. trans. quad. lamp	Standard	
Emergency flasher lamp	Optional	
Cornering light lamp	NA	
Instrument Panel Pad	Standard	
Padded Sun Shades	Standard	
Left hand outside mirror	Standard	

*Also standard on Impala Super Sport models

AMA Specifications—Passenger Car

INDEX

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