AMA Specifications—Passenger Car

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

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

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BODY—TYPES AND STYLE NAMES—

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

	194 Cu. In. 6-Cyl. Standard	230 Cu. In. 6-Cyl. Standard	283 Cu. In. V-8 195HP Standard	283 Cu. In. V-8 220HP RPO-L77
CHEVELLE 300				
2-Door Sedan, 6-Pass.		13111		13211
4-Door Sedan, 6-Pass		13169		13269
CHEVELLE 300 DELUXE				
2-Door Sedan, 6-Pass.		13311		13411
4-Door Station Wagon, 2-Seat		13335		13435
4-Door Sedan, 6-Pass.		13369		13469
2-Door Sedan, Pickup, 3-Pass.		13380		13480
MALIBU				
4-Door Station Wagon, 2-Seat		13535		13635
2-Door Sport Coupe, 5-Pass.		13517		13617
4-Door Sport Sedan, 6-Pass.		13539		13639
2-Door Convertible, 5-Pass.		13567		13667
4-Door Sedan, 6-Pass.		13569		13669
2-Door Sedan Pickup, 3-Pass.		13580		13680

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	13100-300-500 194 Cu. In. L-6 Standard	13100-300-500 230 Cu. In. L-6 RPO-L26	13200-400-600 283 Cu. In. V-8 Standard	13200-400-600 283 Cu. In. V-8 RPO-L77
Wheelbase (L101)			115.0			
Track	Front (W101)		58.0			
	Rear (W102)		58.0			
Maximum Overall Dimensions	Length (L103)		197.0; Wagons 197.6			
	Width (W103)		75.0			
	Height (H101)		Sedans, 53.0; Sp.Cp. 51.9; Conv. 52.8; Wagon, 54.6; Pickup, 4.6			
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard			
	Manual - 4 speed	15	N.A.		Optional	
	Overdrive	15	Optional			
	Automatic	16	Powerglide-Optional			
Axle ratio	Manual - 3 speed	17	3.08; -St. Wag & Pickup 3.36		3.08	
	Manual - 4 speed	17	NA		3.08	
	Overdrive	17	3.70			
	Automatic	17	3.08 -St. Wag. & Pickup 3.36		3.08	
Tire size		18	(a)6.95 x 14-4;	(b)7.35 x 14-4;	(c)7.75 x 14-4	
Engine	Type, no. cyl., valve arr.	3	In. line 6 OHV		90° V-8 OHV	
	Fuel system (Carb., other)	10	Carburetor			
	Bore and stroke	3	3.563 x 3.25	3.875 x 3.25	3.875 x 3.00	
	Piston displ., cu. in.	3	194	230	283	
	Std. compression ratio	3	8.5:1		9.25:1	
	Max. bhp at engine rpm	3	120 @ 4400	140 @ 4400	195 @ 4800	220 @ 4800
	Max. torque at rpm	3	177 @ 2400	220 @ 1600	285 @ 2400	295 @ 3200

(a) All L-6 models except wagons and pickups;
283 V-8 2 & 4 door sedans and sport coupes

(b) 283 V-8 Convertible and 4-door sport sedan, pickup

(c) All station wagons

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GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	Sedans 2-DR	Sedans 4-DR	Sport Sedan	Sport Coupes BN.	Sport Coupes BKT.	Conv. BN.	Conv. BKT.	Sta. Wagon	Sedan Pickup
FRONT COMPARTMENT										
Shoulder room	W3	58.8								
Hip room	W5	59.9								
Max. eff. leg room - accelerator	L34	41.9			41.9	42.2	41.9	42.2	42.0	41.9
Effective head room	H61	38.5	38.6		37.7	37.7	38.2	38.0	38.2	38.2
H Point to Heel point	H30	8.2			7.7	7.9	7.7	7.9	8.2	8.2
REAR COMPARTMENT										
Shoulder room	W4	57.2	58.7	58.7	57.0		45.6		58.8	--
Hip room	W6	58.7	59.9	59.9	58.6		48.6		59.9	--
Minimum effective leg room	L51	35.8	36.0	35.7	33.1	33.4	33.1	33.4	36.0	--
Effective head room	H63	37.3		37.2	36.3		36.3		38.4	--
LUGGAGE COMPARTMENT										
Usable luggage capacity	V1	17.1							----------	
Liftover height	H195	28.9			28.9	28.9	28.9		26.9	
Position of spare tire storage		Horizontal Trunk Floor							RTRR QTR BK FRT SEAT	
Method of holding lid open		Torsion Bars Counterbalanced								
STATION WAGON—THIRD SEAT										
Hip room	W86									
Effective leg room	L86	None								
Effective head room	H86									
Seat facing direction										

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	133-134-135-13635
Minimum distance between wheel houses at floor level	W201	42.4
Rear end opening width at belt	W204	52.5
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.1
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	80.8
Maximum height - floor covering to headlining at centerline of rear axle	H201	31.3
Maximum height of rear opening - tail and lift gates open	H202	28.5
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	86.0

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MODEL	13100-300-500		13200-400-600	
	194 Cu. In. L-6	230 Cu. In. L-6	283 Cu. In. V-8	
	Standard	RPO-L26	Standard	RPO-L77

ENGINE—GENERAL

Type, no. cyls., valve arr.		In-line 6 OHV		90° V-8 OHV	
Bore and stroke (nominal)		3.563 x 3.25	3.875 x 3.25	3.875 x 3.00	
Piston displacement, cu. in.		194	230	283	
Bore spacing (C/L to C/L)		4.4			
No. system (front to rear)	L. Bank	1-2-3-4-5-6 (In-line)		1-3-5-7	
	R. Bank			2-4-6-8	
Firing order		1-5-3-6-2-4		1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		8.5:1		9.25:1	
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		4° 37'		4° 46'	
Taxable horsepower $\frac{Dia^2 \times No.Cyl.}{2.5}$		30.5	36.0	48.0	
Publishing max. bhp* @ eng. RPM		120 @ 4400	140 @ 4400	195 @ 4800	220 @ 4800
Publishing max. torque* (lb. ft. @ RPM)		177 @ 2400	220 @ 1600	285 @ 2400	295 @ 3200
Recommended fuel regular - premium		Regular			
Idle speed(spec. neutral or drive)	Manual	500 in Neutral			
	Automatic	500 in Drive			

ENGINE—PISTONS

Material		Cast aluminum alloy			
Description and finish		Flat head, slipper skirt		Flat, notched head slipper skirt	
Weight (piston only) oz.		21.28	20.32	20.30	
Clearance (limits)	Top land	.0330-.0440		.0345-.0435	
	Skirt Top	.0005-.0011(a)		.0005-.0011(b)	
	Skirt Bottom				
Ring groove depth	No. 1 ring	.1960-.2025		.2153-.2218	
	No. 2 ring	.1960-.2025		.2153-.2218	
	No. 3 ring	.1985-.2050		.2093-.2158	
	No. 4 ring	None			

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

(a) Measured at 2.20 from top of piston

(b) Measured at 2.44 from top of piston

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO # (Std. first) (Indicate A/C ratio) A	B	C
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM				
13100 13300 13500	194	One; 1-Bbl	8.5:1	120 @ 4400	177 @ 2400	3-Speed	3.08(a)	3.36	3.36
						Powerglide*	3.08(a)	--	3.36
						Overdrive*	3.70	--	3.70
	230 *	One; 1-Bbl	8.5:1	140 @ 4400	220 @ 1600	3-Speed	3.08(a)	3.36	3.36
						Powerglide*	3.08(a)	--	3.36
						Overdrive*	3.70	--	3.70
13200 13400 13600	283	One; 2-Bbl	9.25:1	195 @ 4800	283 @ 2400	3-Speed	3.08	3.36(b)	3.36
						4-Speed*	3.08	3.36(b)	3.36
						Powerglide*	3.08	--	3.36
						Overdrive*	3.70	--	3.70
		One;* 4-Bbl	9.25:1	220 @ 4800	295 @ 3200	3-Speed	3.08	3.36(b)	3.36
						4-Speed*	3.08	3.36(b)	3.36
						Powerglide*	3.08	--	3.36
						Overdrive*	3.70	--	3.70

* - Optional
\# - Also available in positraction for combinations shown
-- - Station Wagon Models & Pickup Models - 3.36:1
(b) - Pickup Models - 3.70:1
A - General Purpose - Standard
B - Special Purpose or Mountain - Optional
C - Air condition

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MODEL	13100-300-500		13200-400-600	
	194 Cu. In. L-6	230 Cu. In. L-6	283 Cu. In. V-8	
	Standard	RPO-L26	Standard	RPO-L77

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 - material, coating, etc.	Cast alloy iron, inside bevel. Upper - Flash chrome plating O.D. Lower - Wear resistant coating O.D.		
	Width	.0775-.0780 Upper; .0770-.0780 Lower		
	Gap	.010-.020		
Oil	Description - material, coating, etc.	Multi-piece - (2 rails & one spacer expander) Spacer expander - stainless steel Rails - steel, chrome plated O.D.		
	Width	.1840-.1880 (assembled)		
	Gap	.015-.055		
Expanders		in oil ring assembly		

ENGINE—PISTON PINS

Material		Chromium steel		
Length		2.990-3.010		
Diameter		.9270-.9273		
Type	Locked in rod, in piston, floating, etc.	Locked in rod		
	Bushing: In rod or piston	None		
	Bushing: Material	None		
Clearance	In piston	.00015-.00025		
	In rod	None		
Direction & amount offset in piston		Major thrust side .060		

ENGINE—CONNECTING RODS

Material		Drop forged steel		
Weight (oz.)		12.50	14.56	
Length (center to center)		5.699-5.701		
Bearing	Material & Type	Copper lead alloy or sintered copper nickel backed babbitt on steel		
	Overall length	.807		
	Clearance (limits)	.0007-.0027		
	End play	.009-.013		

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MODEL	13100-300-500		13200-400-600	
	194 Cu. In. L-6 Standard	230 Cu. In. L-6 RPO-L26	283 Cu. In. V-8 Standard	283 Cu. In. V-8 RPO-L77

ENGINE—CRANKSHAFT

Material			Cast nodular iron	Cast nodular iron or forged steel	
Vibration damper type			Rubber mounted inertia damper(a)		
End thrust taken by bearing (No.)			7	5	
Crankshaft end play			.002-.006		
Main bearing	Material & type		Copper lead alloy or sintered copper nickel backed babbitt on steel		
	Clearance		.003-.0029	(#1-4) .0003-.0029; (#5) .0008-.0034	
	Journal dia. and bearing overall length	No. 1	2.3004 x .752	2.3008 x .752	
		No. 2	2.3004 x .752		
		No. 3	2.3004 x .752		
		No. 4	2.3004 x .752		
		No. 5	2.3004 x .752	2.3004 x 1.177	
		No. 6	2.3004 x .752	None	
		No. 7	2.3004 x .760	None	
	Dir. & amt. cyl. offset		None		
Crankpin journal diameter			1.999-2.000		

ENGINE—CAMSHAFT

Location			Above and to right of crankshaft	In block above crk/shft
Material			Cast alloy iron	
Bearings	Material		Steel backed babbitt	
	Number		4	5
Type of Drive	Gear or chain		Gear	Chain
	Crankshaft gear or sprocket material		Steel	Steel sprocket
	Camshaft gear or sprocket material		Bakelite and fabric composition w/steel hub	Cast alloy iron
	Timing chain	No. of links	None	46
		Width	None	.875
		Pitch	None	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard	
Valve rotator, type (intake, exhaust)		None	
Rocker ratio		1.75:1	1.5:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero	
	Exhaust	Zero	
Timing marks on flywheel, damper, other		Harmonic balancer	

(a) Used only with nodular crankshaft

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MODEL

			13100-300-500 194 Cu. In. L-6 Standard	13100-300-500 230 Cu. In. L-6 RPO-L26	13200-400-600 283 Cu. In. V-8 Standard	13200-400-600 283 Cu. In. V-8 RPO-L77
ENGINE—VALVE SYSTEM (cont.)						
Timing (Including Ramps)	Intake	Opens (°BTC)	62°		32° 30'	
		Closes (°ABC)	94°		87° 30'	
		Duration-deg.	336°		300°	
	Exhaust	Opens (°BBC)	92° 30'		74° 30'	
		Closes (°ATC)	63° 30'		45° 30'	
		Duration-deg.	336°		300°	
	Valve opening overlap		125° 30'		78°	
Intake	Material		Alloy steel			
	Overall length		4.902-4.922			
	Actual overall head dia.		1.715-1.725			
	Angle of seat & face		46° (seat) 45° (face)			
	Seat insert material		None			
	Stem diameter		.3404-.3417			
	Stem to guide clearance		.0010-.0033			
	Lift (@ zero lash)		.3318		.3987	
	Outer spring press. and length	Valve closed (lb. @ in.)	56-64 @ 1.66		78-86 @ 1.66	
		Valve open (lb. @ in.)	170-184 @ 1.33		170-180 @ 1.26	
	Inner spring press. and length	Valve closed (lb. @ in.)	None		Spring damper	
		Valve open (lb. @ in.)	None		Spring damper	
Exhaust	Material		High alloy steel			
	Overall length		4.913-4.933			
	Actual overall head dia.		1.495-1.505			
	Angle of seat & face		46° (seat) 45° (face)			
	Seat insert material		None			
	Stem diameter		.3410-.3417			
	Stem to guide clearance		.0010-.0027			
	Lift (@ zero lash)		.3318		.3987	
	Outer spring press. and length	Valve closed (lb. @ in.)	56-64 @ 1.66		78-86 @ 1.66	
		Valve open (lb. @ in.)	170-184 @ 1.33		170-180 @ 1.26	
	Inner spring press. and length	Valve closed (lb. @ in.)	None		Spring damper	
		Valve open (lb. @ in.)	None		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		Nozzle		(a)	
	Cylinder walls		Conn. rod bearing throw-off		Pressure cross-sprayed	

(a) Centrifuge, oiled from front camshaft bearing

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MODEL	13100-300-500		13200-400-600	
	194 Cu. In. L-6 Standard	230 Cu. In. L-6 RPO-L26	283 Cu. In. V-8 Standard	RPO-L77

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	30-45 PSI @ 1500 RPM	
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)	Complete	Element
Capacity of crankcase, less filter-refill (qt.)	4.0	
Oil grade recommended (SAE viscosity and temperature range)	32° F and above ------- SAE20W, SAE20 or SAE10W-30 0° F and above ---------- SAE10W, SAE10W-30 Below 0° F ---------- SAE5W, SAE5W-20	
Engine Service Requirement (MM, MS, etc.)	MS or DG	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single	Single with crossover	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		One, reverse flow	One, reverse flow	Two with resonators
Exhaust pipe dia. (O.D., wall thickness)	Branch		2.00x.082-.104(a)	(a)
	Main	2.00 x .057-.071	2.00x.073-.091(a)	2.50x.073-.091
Tail pipe diameter (O.D. & wall thickness)		1.875x.062-.076		2.00x.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		Top rear at rocker cover	Rear at carburetor
	Energy source (manifold vacuum, carburetor air stream, other)		Manifold vacuum	
	Control method (variable orifice, fixed orifice, other)		Variable	
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	
	Flame arrestor (screen, check valve, other)		Check valve	

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

'a, Laminated

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MODEL	13100-300-500 194 Cu. In. L-6 Standard	13100-300-500 230 Cu. In. L-6 RPO-L26	13200-400-600 283 Cu. In. V-8 Standard	13200-400-600 283 Cu. In. V-8 RPO-L77

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.)		Head	Manifold	
	Point of entry		Exhaust ports		
	Injection tube I.D		.2565		
	Check valve type		Pressure (plate type)(a)		
	Backfire protection (type)		Vacuum actuated anti-backfire valve		
Carburetor	Make		Carter	Rochester	
	Model		3880861(b)	7036101	7036119
	Barrel size		1.56	1.44	1.44 Pr. & Sec.
	Idle speed	Drive	600 for Powerglide		
		Neutral	700 for Manual transmissions		
Distributor	Aux Adv Systems (type)				
	Make		Delco-Remy		
	Model		1110373	1110362	1111150
	Cent'fgal adv. in crank degrees @ eng. rpm.	Start (rpm)	900		
		Intermed. points deg. @ rpm			
		Max deg@rpm.	30 @ 2250	30 @ 3200	28 @ 4200
	Vacuum adv. in crank degrees@ eng. rpm	Start (in Hg)	6		8
		Intermed. points deg @ in. Hg			
		Max. deg.@ in.	21 @ 14.5		15 @ 15.5
	Vacuum Source				
Timing - Crank degrees @ rpm			3° BTC @ 700	4° BTC @ 700	4° BTC @ 700
Cooling System (describe changes)			Radiator fan shroud added		
Exhaust System (describe changes)					

(a) Two check valves used on V-8 engines

(b) Powerglide Models - 194 & 230 Cu. In. L-6 (3880861); V8-283 Std (7036110); V8-283 RPO L77 (7036118)

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MODEL	1311-300-500		13200-400-600	
	194 Cu. In. L-6 Standard	230 Cu. In. L-6 RPO-L26	283 Cu. In. V-8 Standard	RPO-L77

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 (approximately)	
	Filler location		Behind hinged rr license plate (a)	
Fuel Pump	Type (elec. or mech.)		Mechanical	
	Locations		Lower right front of engine	
	Pressure range		3.50-4.50 PSI	5.25-6.50 PSI
Vacuum booster (std., optional, none)			None	
Fuel Filter	Type		Fine mesh plastic strainer in gasoline tank	
	Locations		and sintered bronze filter in carburetor	
Carburetor	Choke type		Automatic	
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air cleaner type	Standard	Oil-wetted polyurethane	Oil-wetted paper
		Optional		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
13100 13300 13500	194	3-Speed	Rochester	7025105	One; single-barrel down-draft	1.56
		Powerglide	Rochester	7023108		
	230 (opt)	3-Speed	Rochester	7025003	One, single-barrel, down-draft	1.56
		Powerglide	Rochester	7025000		
13200 13400 13600	283	3-Speed 4-Speed	Rochester	7024101	One, two-barrel, down-draft	1.44
		Powerglide	Rochester	7024110		
	283 (opt)	3-Speed 4-Speed	Rochester	7025127	One, four-barrel	1.44 Primary Secondary
		Powerglide	Rochester	7025128		

(a) Left rear quarter panel on Station Wagons and Pickups

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MODEL	13100-300-500 194 Cu. In. L-6 Standard	13100-300-500 230 Cu. In. L-6 RPO-L26	13200-400-600 283 Cu. In. V-8 Standard	13200-400-600 283 Cu. In. V-8 RPO-L77

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure		
Radiator cap relief valve pressure			15 PSI ±1		
Circulation thermostat	Type (choke, bypass)		Choke		
	Starts to open at (°F)		177°-183°F		
Water pump	Type (centrifugal, other)		Centrifugal		
	GPM @ 1000 pump rpm	58 @ 4400	60 @ 4400	54 @ 4400	
	Number of pumps		One		
	Drive (V-belt, other)		V-belt		
	Bearing type		Permanently lubricated double row ball		
By-pass recirculation type (internal, external)			Internal		
Radiator core type (cellular, tube and fin, other)			Tube on center		
Cooling system capacity	With heater (qt.)	12		16	
	Without heater (qt.)	11		15	
	Opt. equipment-specify (qt.)	12		18	
Water jackets full length of cylinder (yes, no)					
Water all around cylinder (yes, no)			Yes		
Radiator hose	Lower — Number and type (molded, straight)		One, molded		
	Lower — Inside diameter		1.75		
	Upper — Number and type (molded, straight)		One, molded		
	Upper — Inside diameter	1.28		1.50	
	By-pass — Number and type (molded, straight)		None		
	By-pass — Inside diameter		---		
Fan	Number of blades & spacing		4 staggered		
	Diameter		17.62		
	Ratio-fan to crankshaft rev.		.949:1		
	Fan cutout type		None		
	Bearing type				
*Drive belts (indicate belt used by letter)	Fan	A		D	
	Generator or alternator	A		D	
	Water Pump	A		D	
	Power Steering	B		E	
	Air Conditioning	C		F	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V				38° - 42°							
Nominal length (SAE)	37.50	49.50	54.75	54.00	41.20	60.75					
Width				.380							

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (a)

MODEL

13100-300-500		13200-400-600	
194 Cu. In. L-6 Standard	230 Cu. In. L-6 RPO-L26	283 Cu. In. V-8 Standard	RPO-L77

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy #1983504
	Voltage Rtg. & Total Plates		12 Volt 54 Plates
	SAE Designation & Amp Hr. Rtg.		44 Amp/Hr @ 20 Hr Rate
	Location		Right side frt engine compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco-Remy
	Model		#1100693
	Type and rating		Diode rectified (37 amp)
	Output at engine idle (neutral)		13 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	None
	Voltage test conditions	Temperature	Operating
		Load	3-8 Amps
		Other	None

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy	
	Model		#1107259	#1107247
	Rotation (drive end view)		Clockwise	
	Engine cranking speed			
	Test conditions		Engine at operating temperature	
	No load test	Amps	49-76	
		Volts	10.6	
		RPM (min)	6200-9400	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		3 Spd. & 4 Spd. - Place gearshift in neutral and depress clutch to floor. POWERGLIDE - Place control lever in N or P position. INITIAL START - Depress accelerator pedal to floor and release. Turn ignition to START and release as soon as engine starts.	

(Continued)

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (6)

MODEL

13100-300-500		13200-400-600	
194 Cu. In. L-6 Standard	230 Cu. In. L-6 RPO-L26	283 Cu. In. V-8 Standard	283 Cu. In. V-8 RPO-L77

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type			Positive shift solenoid		
	Pinion meshes (front, rear)			Rear		
	Number of teeth	Pinion		9		
		Flywheel	Manual	153		
			Auto.	153		
	Flywheel tooth face width		Manual	.4010-.4130		
			Auto.	.4010-.4130		

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.			NA		
	Make			Delco-Remy		
	Model			1115208		1115204
	Amps	Engine stopped		4.0		
		Engine idling		1.8		
Distributor	Make			Delco-Remy		
	Model			1110360	1110362	1111150
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)		900		
		Intermediate points deg. @ rpm.				
		Max. deg. @ rpm.		28 @ 2300	30 @ 3200	28 @ 4200
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)		6		8
		Intermediate points, deg. @ in. Hg.				
		Max. deg. in. Hg.		21 @ 4.5		15 @ 15.5
	Breaker gap (in.)			.019		
	Cam angle (deg.)			31°-34°		28°-32°
	Breaker arm tension (oz.)			19-23 oz		
Timing	Crankshaft deg. @ rpm.			8° BTC @ 500	4° BTC @ 500	4° BTC @ 500
	Mark location			Torsional damper		
Spark Plug	Make			AC Spark Plug		
	Model			AC46N (long reach)		AC45
	Thread (mm)			14		
	Tightening torque (lb. ft.)			25		
	Gap			.033-.038		
Cable	Conductor type			Inner core impregnated with conducting material		
	Insulation type			Rubber with neoprene jacket		
	Spark plug protector			Neoprene		

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (a)

MODEL	13100-300-500 194 Cu.In. L-6 3-Spd. & OD	13100-300-500 230 Cu.In. L-6 3-Spd. & OD	194 Cu. In. HD (RPO M01)	13200-400-600 283 Cu.In. V-8 3-Spd & OD	13200-400-600 283 Cu.In. V-8 4-Spd.

ELECTRICAL—SUPPRESSION

Locations & type	Non-metallic high tension ignition cables

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speedometer	Make	AC
	Trip odometer (yes, no)	NA
Charge indicator—type		Tell-Tale
Temperature indicator—type		Tell-Tale
Oil pressure indicator—type		Tell-Tale
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 @ 12.5V

DRIVE UNITS—CLUTCH (Manual Transmission)

						Single dry disc centrifugal (a)
Make & type		Chevrolet, single dry disc				
Type pressure plate springs		Diaphragm				
Total spring load (lb.)		1250-1450	1700-1950	1900-2200	1700-1950	2100-2300
No. of clutch driven discs		One				
Clutch facing	Material	Woven type asbestos		(b)	Woven type asbestos	
	Outside & inside dia.	9.12 & 6.12		10.0 & 6.0	10.0 & 6.5	10.4 & 6.5
	Total eff. area (sq. in.)	71.8		100.5	90.7	103.5
	Thickness	.135 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) Diaphragm, bent finger design

(b) Woven front and molded rear facings

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (a)

MODEL	13100-300-500 194 & 230 Cu. In. L-6	13200-400-600 283 Cu. In. V-8

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard	
Manual 4-speed (std. or opt.)	N.A.	Optional
Manual with overdrive (std. or opt.)	Optional	
Automatic (std. or opt.)	Optional	

DRIVE UNITS—MANUAL TRANSMISSION

			3-Speed	4-Speed
Number of forward speeds			3	4
Transmission ratios	In first		2.85	3.11
	In second		1.68	2.20
	In third		1.00	1.47
	In fourth		--	1.00
	In reverse		2.95	3.11
Synchronous meshing, specify gears			All forward gears	
Shift lever location			Steering column	Floor mounted
Lubricant	Capacity (pt.)		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)			Planetary
Manual lockout (yes, no)			Yes
Downshift accelerator control (yes, no)			Yes
Minimum cut-in speed			Output shaft RPM: deceleration 1100; deceleration 1440
Gear ratio			.7:1
Lubricant	Capacity (pt.) (Overdrive only)		1
	Separate filler (yes, no)		No
	Type recommended		Military Spec. MIL-L-2105-B
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (6)

MODEL

13100-300-500		13200-400-600
194 Cu. In. L-6 Standard	230 Cu. In. L-6 RPO-L26	283 Cu. In. V-8

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Powerglide		
Type describe		Torque converter with planetary gears		
Method of Selection (Lever, Push Button or other)		Steering column, floor mounted on 13700 & 13800 models when used with bucket seats.		
Selector Pattern		P-R-N-D-L		
List gear ratios Selector Pattern and indicate which are used in each selector position		D - 1.82 & 1.0 L & R - 1.82		
Max. upshift speeds—drive range		51	53	59
Max. kickdown speeds—drive range		48	49	55
Torque convertor	Number of elements	3		
	Max. ratio at stall	2.40	2.10	
	Type of cooling (air, liquid)	Air	Air(a)	Water
Lubricant	Capacity—refill (pt.)	3		
	Type recommended	A Suffix A		
Special transmission features				

DRIVE UNITS—PROPELLER SHAFT

Number used		One	
Type (exposed, torque tube)		Exposed, unsupported	
Outer diameter x length* x wall thickness	Manual 3-speed transmission	3.25 x 60.137 x .065	
	Manual 4-speed transmission	NA	Same as 3-Speed
	Overdrive transmission	Same as 3-Speed	
	Automatic transmission	Same as 3-Speed	

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

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MAKE OF CAR Chevelle MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (a)

MODEL

DRIVE UNITS—PROPELLER SHAFT (cont.)

Intermediate 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)	Prepack
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			Semi-Floating, overhung pinion gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.5
No. of differential pinions			Two
Ring gear O.D. (std. ratio)			8.125
Pinion adjustment (shim, other)			None
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Single row cylinderical ball
Lubricant	Capacity (pt.)		3.5
	Type recommended		Military spec. MIL-L-2105-B
	SAE viscosity 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		3.08	3.36
No. of teeth	Pinion	12	11
	Ring gear	37	37

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MODEL

DRIVE UNITS—WHEELS

Type & material			Short Spoke Disc
Rim (size and flange type)		Std.	14 X 5J
		Opt.	- - -
Attachment	Type (bolt or stud)		Bolt
	Circle diameter		4.75
	Number and size		5 Hex Nuts, 7/16 - 20 NEF - 2 B

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply (Blackwall)	6.95 X 14-4 (a)	7.35 X 14-4 (b)	7.75 X 14-4 (c)
	Type - Nylon, etc.	Rayon		
Rev/mile at 50 mph.		822	803	779
Inflation press. (cold)	Front	24	24	24
	Rear	24	28	28
Optional tires - size and ply		6.95 X 14-4 7.35 X 14-4 Nylon 7.35 X 14-4		7.75 X 14-4 7.75 X 14-4 Nylon 7.75 X 14-8

BRAKES—SERVICE

			Standard	Metallic (Opt)
Type (duo-servo, disc, balanced, etc.)			Standard	Duo-Servo, 4-Wheel Hyd.
Self adjusting (std., opt., N.A.)			Reverse, Self-Adjusting, Std.	
Hydraulic system type (single, dual, etc.)			Single	
Power brake make & type (remote, integral, etc.)			Bendix, Delco-Moraine vacuum power unit assists Master Cylinder; Integral	
Effective area (sq. in.) *			168.9	118.1
Gross lining area (sq. in.) **			168.9	118.1
Swept drum area (sq. in.) ***			268.6	
Percent brake effectiveness—front			59.4	
Drum or Rotor	Diameter	Front	9.5	
		Rear	9.5	
	Type and material		Composite: Cast Iron Rim; Steel Web	
	Rotor (vented or solid)		- -	
	No. pistons per caliper		- -	
Wheel cylinder bore	Front		1.12	
	Rear		.9375	
Master cylinder bore			1.00	.875
Available pedal travel			6.70	
Line pressure at 100 lb. pedal load			783	1023
Shoe clearance adjustment			Self-Adjusting	

* Excludes rivet holes, grooves, chamfers, etc.

(Continued)

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

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

(a) All L-6 models except wagons and pickups; 283 V-8 2 & 4-door sedans and sport coupes
(b) 283 V-8 convertible and 4-door sport sedan, pickup
(c) All station wagons

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (8)

MODEL

BRAKES—SERVICE (cont.)

				STANDARD	METALLIC (OPT.)
Brake lining	Drum or Disc			Drum	
	Bonded or riveted			Bonded	Welded
	Front Wheel	Material		Molded Asbestos	Sintered Iron
		Size (length x width x thickness)	Prim. or outboard	9 01 X 2.5 X .17	1.64 X 1.25 X .175
			Second. or inboard	9.01 X 2.5 X .17	1.64 X 1.25 X .175
		Segments per shoe		One	Six
	Rear Wheel	Material		Molded Asbestos	Sintered Iron
		Size (length x width x thickness)	Prim. or outboard	9 75 X 2.5 X .20	1.64 X 1.25 X .285
			Second. or inboard	9 75 X 2.00 X .20	1.64 X 1.0 X .285
		Segments per shoe		One	Ten

BRAKES—PARKING

Type of control		Pulley-Cable Linkage - Foot Pedal apply, handle release.
Location of control		Below instrument panel, left of steering column
Operates on		Rear Service Brakes
If separate 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 suspension crossmember and rear crossmember.

STEERING

Manual (std., opt., NA)				Standard
Power (std., opt., NA)				Optional
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt: tilt achieved with universally-jointing steering shaft at base of steering wheel; 5 inch vertical travel range
		(std., opt., NA)		Optional
Wheel diameter		Manual		16.5
		Power		16.5
Turning diameter	Outside front	Wall to wall (l. & r.)		43.1
		Curb to curb (l. & r.)		40.3
	Inside rear	Wall to wall (l. & r.)		24.1
		Curb to curb (l. & r.)		24.7
Outside wheel angle with inside wheel at 20°				18.4°
Manual	Gear	Type		Semi-reversible recirculating ball nut
		Make		Saginaw
		Ratios	Gear	24:1
			Overall	28:1
	No. wheel turns			5.48 lock to lock

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (6)

MODEL

STEERING (cont.)

Power	Type (coaxial, linkage, etc.)			Coaxial
	Make			Saginaw
	Gear	Type		Same as Manual
		Ratios	Gear	17.5:1
			Overall	20.4:1
	Pump driven by			Crankshaft Pulley
	Number wheel turns			3.98 Lock to Lock
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Front of Wheels
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two
Steering Axis	Inclination at camber (deg.)			7-3/4 to 8-3/4
	Bearings (type)	Upper		Ball stud with non-metallic bearing surfaces
		Lower		Ball stud with non-metallic bearing surfaces
		Thrust		None
Wheel Alignment (range at curb weight and preferred)	Caster (deg.)			SS & Sedan Pickup, N1 to 0 (curb); Exc. SS & Sedan Pickup N1-1/2 to N 1/2 (curb)
	Camber (deg.)			0 to P1 (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

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (a)

MODEL	194 L-6	283 V-8

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling		Front Stabilizer Bar
Provision for brake dip control		Mounting Angle of Front Upper Control Arms
Provision for acc. squat control		Geometry of Rear Suspension
Special provisions for car jacking		Bumper Jack applied outboard of Bumper Bolt at Wheel required for Jacking.
Shock absorber front & rear	Type	(a)
	Make	Delco Products
	Piston dia.	1.00
Other special features		

SUSPENSION—FRONT

Type and description		Independent - SLA Type with coil spring and concentric shock absorber, and spherically jointed steering knuckle for each wheel.	
Spring	Type	Coil	
	Material	Steel alloy	
	Size (coil design height & I.D.; bar length x dia.)	12.59 & 3.63; 134.6 X .594	12.59 & 3.63; 148.4 X .612
	Spring rate (lb. per in.)	250	
	Rate at wheel (lb. per in.)	97	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	HR Steel, .812	

SUSPENSION—REAR

Type and description			(b)	
Drive and torque taken through			Control arms	
Spring	Type		Coil	
	Material		Steel alloy	
	Size (length x width, coil design height & I D ; bar length & dia.		9.74 & 5.50; 120.6 X .536	9.74 & 5.50; 120.6 X .536
	Spring rate (lb. per in.)		100	
	Rate at wheel (lb. per in.)		100	
	Mounting insulation type		None	
	If leaf	No. of leaves	- -	
		Shackle (comp. or tens)	- -	
Stabilizer	Type (link, linkless, frameless)		None	
	Material		- -	
Track bar type			None	

(a) Direct, double-acting, hydraulic exc. air booster type on 133-134-135-13680

(b) Link; two upper and two lower control arms supporting an integral rear beam consisting of cast iron differential carrier with pressed in tubular rear axle shaft housings.

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

MODEL

	Sedans 2-Dr.	Sedans 4-Dr.	Sport Sedan	Coupes	Conv	Wagons	Pickup

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		6-Cyl. on crankcase RH side of engine, rear of distributor 8-Cyl. on top front of RH Bank of Cylinder and case.					
Theft protection - type		Shielded ignition lock terminals key removable in "OFF" position.					
Vent window control method (crank, friction pivot)	Front	Friction Pivot					
	Rear	Rear					
Seat cushion type	Front	Formed wire and 75 foam rubber pad (a)					
	Rear	Formed wire & jute & cotton pad (b)					
	3rd seat	None					
Seat back type	Front	Formed wire & cotton					
	Rear	Formed wire & cotton					
	3rd seat	None					
Windshield glass type (i.e., single curved - laminated plate)		Curved Laminated					
Side glass type (i.e., curved - tempered plate)		Curved					
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved			Plastic	Flat	Curved
Windshield glass exposed surface area		1107.1					
Side glass exposed surface area							
Backlight glass exposed surface area		935.1	812.8	728.9	833.8	768.4	665.2
Total glass exposed surface area		3395.4	3320.2	3352.7	3145.3	3186.6	4374.1	2611.5

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	25.2	24.6	24.8	25.6
		Lowest	25.2	24.6	24.8	25.6
	Tail	Highest	24.6	24.8	24.6	26.7
		Lowest	24.6	24.8	24.6	26.7
Distance from C.L of car to center of bulb	Headlamp	Inside	23.9			
		Outside *	30.5			
	Tail	Inside	29.8			32.-
		Outside	29.8			32.-
	Directional	Front	27.2			
		Rear	24.6	24.8	24.6	26.-

* If single headlamps are used enter here.

(a) 135-13600 1.75 foam pad; 137-13800 1.50

(b) 135-136-137-13800 Jute and 1" foam pad.

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MAKE OF CAR CHEVELLE 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	NA models 13100-13200 Optional all other models
	Vent Windows	NA
	Backlight or tailgate	Optional
Power seats (specify type as well as availability)		Optional - 4-way electric control
Reclining front seat back		NA
Front seat headrest		Optional
Radios (specify type as well as availability)		Optional - AM push button - AM/FM push button
Rear seat speaker		Optional
Power Antenna		Optional
Clock		Standard, models 135-136-13800 -- Optional all other models
Air Conditioner (specify type and availability)		Optional - all weather and custom (recurculating)
Speed warning device		NA
Speed control device		Optional
Ignition lock lamp		NA
Back up lamp		Standard
Dome lamp		Standard
Glove compartment lamp		Standard 135-136-13800 -- Optional all other models
Prkg. brake signal lamp		Optional
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		NA models 13567-667-767-867 -- Optional 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

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MAKE OF CAR CHEVELLE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED (2)

WEIGHTS

Model	CURB WEIGHT - POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING WEIGHT	
		194	283					194	283
		6-cyl	8 cyl					6 cyl	8 cyl
CHEVELLE 300									
131-13211 2 dr. sedan		3040	3195	31	69			2895	3040
		3080	3235	31	69			2935	3080
CHEVELLE 300 Deluxe									
133-13411 2 dr. sedan		3060	3215	31	69			2910	3060
133-13435 4 dr. wagon		3355	3510	31	69			3210	3350
133-13469 4 dr. sedan		3095	3250	31	69			2945	3095
133-13480 sedan pickup		3075	3235	12	88			2930	3075
MALIBU									
135-13635 4 dr. wagon		3380	3530	31	69			3235	3375
135-13617 2 dr. coupe		3080	3230	38	62			2935	3075
135-13639 4 dr. sp. sedan		3180	3335	31	69			3035	3190
135-13667 2 dr. conv.		3110	3335	38	62			3030	3175
135-13669 4 dr. sedan		3105	3270	31	69			2960	3110
135-13680 sedan pickup		3090	3245	12	88			2940	3090

Accessories & Equipment Differential Weights		194	283	Remarks
		6-cyl	8-cyl	
Air conditioning		+115	+125	
Brakes power		+9	+9	
Heater (delete)		+25	+25	
Radio push button		+9	+9	
Radio AM/FM Push Button		+9	+9	
Comf. & Conv.		+8	+8	
Seat 4-way power		+20	+20	
Steering power		+28	+28	
Transmission pwrglide		+16	-16	
Transmission 4-spd.		--	+11	
Transmission ovrdrive		+26	+26	

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