



GENERAL



MODEL IDENTIFICATION	2
SERIAL NUMBERS AND IDENTIFICATION	3
REGULAR EQUIPMENT - EXTERIOR	4
REGULAR EQUIPMENT - INTERIOR	5
OPTIONAL EQUIPMENT	6
DEALER INSTALLED ACCESSORIES	8
TAXI-CAB EQUIPMENT (RPO B02)	9
HEAVY DUTY CHASSIS-BODY (RPO Z04)	10
● AIR CONDITIONING EQUIPMENT	11

MODEL IDENTIFICATION

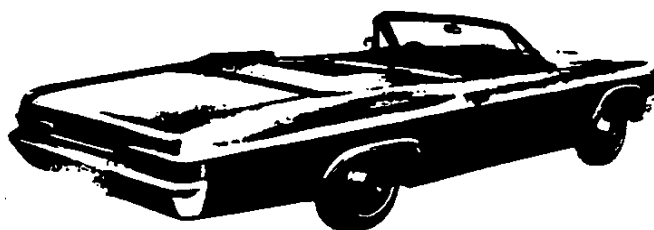


BISCAYNE 153-15400 SERIES

MODEL 153-15411 2-DOOR SEDAN, 6-PASSENGER
MODEL 153-15435 4-DOOR STATION WAGON, 2-SEAT
MODEL 153-15469 4-DOOR SEDAN, 6-PASSENGER

BEL AIR 155-15600 SERIES

MODEL 155-15611 2-DOOR SEDAN, 6-PASSENGER
MODEL 155-15635 4-DOOR STATION WAGON, 2-SEAT
MODEL 155-15645 4-DOOR STATION WAGON, 3-SEAT
MODEL 155-15669 4-DOOR SEDAN, 6-PASSENGER



IMPALA 163-16400 SERIES

MODEL 163-16435 4-DOOR STATION WAGON, 2-SEAT
MODEL 163-16457 2-DOOR SPORT COUPE, 5-PASSENGER
MODEL 163-16439 4-DOOR SPORT SEDAN, 6-PASSENGER
MODEL 163-16445 4-DOOR STATION WAGON, 3-SEAT
MODEL 163-16467 2-DOOR CONVERTIBLE, 5-PASSENGER
MODEL 163-16469 4-DOOR SEDAN, 6-PASSENGER

IMPALA SUPER SPORT 167-16800 SERIES

MODEL 167-16857 2-DOOR SPORT COUPE, 4-PASSENGER
MODEL 167-16867 2-DOOR CONVERTIBLE, 4-PASSENGER



CAPRICE 16600 SERIES

MODEL 16635 4-DOOR STATION WAGON, 2-SEAT
MODEL 16639 4-DOOR SPORT SEDAN, 6-PASSENGER
MODEL 16645 4-DOOR STATION WAGON, 3-SEAT
MODEL 16647 2-DOOR SPORT COUPE, 5-PASSENGER

SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE SERIAL NUMBER

6-Cylinder Example:

Model	Model Year	Assembly Plant	Unit Number
15369	1966 6	(Tarrytown) T	(25th unit) 100025

Thus: The 25th model built at Tarrytown would be serial number 153696T100025

8-Cylinder Example:

Model	Model Year	Assembly Plant	Unit Number
15469	1966 6	(Flint) F	(26th unit) 100026

Thus: The 26th model built at Flint would be serial number 154696F100026

ASSEMBLY PLANTS

A - Atlanta	L - Los Angeles
C - Southgate	N - Norwood
D - Atlanta GMAD	R - Arlington
F - Flint	S - St. Louis
G - Framingham	T - Tarrytown
J - Jansenville	Y - Wilmington

Starting unit number ----- 100001 and up at each assembly plant regardless of series
 Location ----- Stamped on plate attached to left front body hinge pillar

ENGINE IDENTIFICATION

Example: F 1210 FA

Source Designation	Production* Month & Date	Type Designation
F(Flint)	1210	FA

250 Cubic Inch 6-Cylinder

FA - Regular production engine, 3-speed
 FM - Regular engine, Powerglide

283 Cubic Inch 8-Cylinder

GA - Regular production engine, 3-speed
 GF - Regular, Powerglide

327 Cubic Inch 8-Cylinder (RPO L30)

HA - Optional, 3 or 4-speed trans., 4-bbl. carb.
 HC - Optional, Powerglide, 4-bbl. carb.

396 Cubic Inch 8-Cylinder (RPO L35)

IA - Optional, 3 or 4-speed trans., 4-bbl. carb.
 IG - Optional, Powerglide, Hydra-Matic

427 Cubic Inch 8-Cylinder (RPO L36)

● ID - Optional 3 or 4-speed, 4-bbl. carb.

Location:

6-cylinder engine ----- Stamped on pad on right side of cylinder block to rear of distributor
 8-cylinder engine ----- Stamped on pad at front right side of cylinder block

* - Month: December, 12; 10th day of December, 10

REAR AXLE IDENTIFICATION

Example: DA 0212 B

Type Designation	Production* Month & Date	Source† Designation
DA	0212	B

DA ---- 3.08 ---- 3-speed and Powerglide transmission
 DB ---- 3.36 ----- 4-speed transmission
 EX ---- 3.70 ----- Overdrive transmission
 GZ (Wagons) - 3.55 -- 3-speed and Powerglide transmission

Location ----- Bottom left or right of axle tube adjacent to carrier housing

* - Month: February, 02; 12th day of February, 12
 † - G-Gear & Axle, B-Buffer, W-Warren

REGULAR EQUIPMENT—EXTERIOR

Bright Metal Trim & Moldings	Stainless Steel	Back window reveal	All exc. conv. & station wagons
		Body belt - side (Full length)	16647
		Body belt-side (short)	16600 exc. 16647
		Body belt - rear	163-164-167-16867
		Door upper reveal	163-16435,45,69; 16635,45
		Roof drip gutter	All exc. 153-15400; 163-164-167-16867
		Roof reveal	163-16437,39; 16639,47; 16837
		Rear quarter window reveal	163-16435,45; 16635,45
		Tailgate window reveal - top and sides	155-156-163-16435,45; 16635,45
		Tailgate window reveal - lower	163-16435,45; 16635,45
		Windshield reveal	All
		Wheel trim covers	16600; 167-16800
		Windshield pillar	163-164-167-16867
		Windshield header	
	Anodized Aluminum	Body side & rear (Paint fill exc. 155-15600)	155-15600; 163-16400; 167-16800
		Body sill - narrow	163-16400; 167-16800
		Body sill - wide	16600
		Body rear (Paint fill)	16639-47
		Headlamp bezels	All
		Radiator grille and opening moldings	
		Rear quarter lower (at bumper)	16639-47
		Wheel openings	16000 exc. 16635,45
	Chrome Plated Metal	Deck lid or tailgate emblem	All
		Front door vent glass channel and post	
		Body rear simulated grilles	16647
		Roof side emblem	16639-47
		Taillamp bezels	All
		Front door vent glass frame	163-16437,39,67; 16639,47; 167-16800
		Front fender series nameplate	16600; 167-16800
		Front fender series nameplate and emblem	163-16400
		Front fender engine emblem (V-8 only)	All
		Hood windsplit	16000
		Hub caps	15000; 163-16400
		Radiator grille nameplate - "Chevrolet"	All exc. 167-16800
		Radiator grille nameplate - "Impala SS"	167-16800
		Rear door or quarter glass channel - front	163-16437,39,67; 16639,47; 167-16800
		Rear quarter series nameplate and emblem	15000 (nameplate only on 15400)
	Rear deck or tailgate nameplate - "Chevrolet"	15000; 163-16400	
	Rear deck or tailgate nameplate - "Caprice by Chevrolet"	16600	
	Rear deck nameplate - Impala SS"	167-16800	
	Control - electric rear window	All 3-seat station wagons	
	Control - manual rear window	All 2-seat station wagons	
	Filler - left rear quarter gasoline	Station wagons	
	Filler - rear bumper center concealed gasoline	All exc. wagons	
	Lamp - rear license		
	Wipers - dual electric two speed windshield - with washers	All	
	Lamps - dual back-up		
Mirror - driver's door outside			
Body side paint stripes - dual	16639-47		
Body side and rear wood-grain panels	16635-45		

REGULAR EQUIPMENT—INTERIOR

Bright Metal Trim & Moldings	Back window	163-16437,39;16639,47;167-16837
	Coat hooks (two)	All exc. convertible
	Console-floor center	167-16800
	Front bucket seat cushion and backrest	167-16800
	Front seat outer trim	163-16400;16600
	Pedal pads	16000
	Rear view mirror back and support	16000
	Rear seat speaker grille	163-164-167-16837,67;16647
	Window control handles - black knob	15000
	Door and window control handles - single arm (bright knobs on 16000)	All
	Windshield top and side	163-16437,39;16639,47;167-16837
	Roof side rail	
	Instrument Panel	Cigarette lighter and ash tray	All
Control knobs - chrome		
Convertible top switch		163-164-167-16867
Electric clock		16000
Glove box lock		
Ignition lock and starter switch - 4 position		All
Instrument cluster bright housing		
Lower trim - simulated wood grained		16600
Lower trim plate - brushed aluminum		163-164-167-16800
Parking brake alarm		16000
Rear window control switch		155-156-163-164-16645
Panel top pad		All
Vent control knobs - height		All
Interior Lights	Console courtesy	167-16800
	Glove box	All exc. 153-15400
	Instrument panel courtesy - dual	163-164-167-16837,67;16600
	Luggage compartment	16000 sedans, coupes
	Roof center dome	15000;163-16435,45,69-16635,45
	Roof rear quarter dome - dual	163-164-167-16837;16639,47
	Roof side dome - dual	163-16439
Third seat	155-156-163-164-16645	
Steering Wheel	Deep hub - dual solid spokes - horn ring	
Armrests - front door		All
Armrests with ashtrays - rear door or quarter panel		
Heater - deluxe		
Locking knobs - front and rear doors		
Mat - luggage or stowage compartment	153-154-155-15635,15645;16000	
Mirror - rear view (padded back and support)	15000	
Seat belts - front & rear (third seat also for 3-st. wgn.)	All	
Seats - front bucket	167-16800	
Sunshades - dual, padded	All	
Switches - front door jamb (rear also for 16600)	155-15600;16000	
Switch - manual interior light (integral in headlamp switch)	All	
Side panels - luggage compartment	16639,47	

REGULAR PRODUCTION OPTIONS

● BODY OPTIONS

Name	Number	Models	
Air conditioning, Four Season	C60	All	
Air conditioning, automatic temperature control	C75	All	
Air deflector, rear window	C51	Station wagons	
Antenna, radio rear manual	U73	All exc. wagons	
Antenna, radio rear power	U75	15-16000 exc. wagons	
Body, heavy duty	B01	153-15400	
Carrier, roof luggage deluxe	V54	Station wagons	
Carrier, roof luggage	V55	Station wagons	
Convenience Group	Inside mirror non-glare	Z19	All
	Remote control outside mirror		All exc. 16635-45
	Door edge guards		All
	Underhood lamp		153-15400
	Glove box lamp		All exc. wagons
Luggage lamp		153-15400	
Cushion, foam rubber front seat	B50	153-15400	
Carpet, load floor	B39	163-164-16635-45	
Defogger, rear window	C50	All exc. conv. & wagons	
Glass, tinted body	A01	All	
Glass, tinted windshield	A02		
Guard, front bumper	V31	All exc. wagons	
Guard, rear bumper	V32		
Headrest, front seat (Strato)	A81	16639-47, 167-16800	
Headrest, conventional type seat	A82	150-163-164-16600	
Heater, (delete)	C48	All	
Horn, low "D" note	U03	167-16800	
Instrument console	D69	167-16800	
Lock, rear compartment	A96	2-seat wagons	
Lock, spare wheel	P19	All	
Radio and antenna, AM-FM push button	U69		
Radio and antenna, push button tuning	U63		
Radio stereo equipment	U79		
Roof covering, vinyl soft trim - exterior	C08	163-16437-39, 16639-47, 167-16837	
Seat belts, custom deluxe dual front and rear (with front retractors only)	A39	All	
Shoulder harness	A85	150-163-16400 wagons	
Seat, split second (Fawn interiors only)	A66		
Seat, 4-way power driver bucket	A46	16647-700-800	
Seat, front bucket (Strato) power	A51	16647	
Seat, 6-way power front	A42	185-156-163-164-16600	
Seat, front bench (Strato)	A53	16639-47	
Speaker, radio auxiliary	U80	All	
Switch, lamp and flasher, traffic hazard	V74	All	
Tachometer, instrument panel	U16	154-156-164-166-16800	
Taxicab equipment	B02	153-15469	
Top, folding convertible (optional colors)	C05	163-164-167-16867	
Windows, power	A31	155-15635-45-69-16000	
Window, power tailgate	A33	2-seat wagons	

● ENGINE OPTIONS

Air cleaner, oil bath	K45	153-155-163-16700
Air injection reactor	K19	All
Battery, heavy duty	T60	All
Clutch, heavy duty (11")	M01	153-155-163-16700
Exhaust, dual	N10	154-156-164-166-16800
Fan, thermomodulated clutch	K02	All
Generator, Delcootron (5-61 amp)	K76	
Generator, Delcootron (12-42 amp)	K79	
Generator, Delcootron (23-62 amp)	K81	
Ignition system, full transistor	K66	154-156-164-16800
Radiator, heavy duty	V01	All
Speed and cruise control	K30	154-156-164-166-16800
Ventilation, closed engine positive	K24	All
283 cubic inch V-8 220 HP	L77	154-156-164-166-16800
327 cubic inch V-8 275 HP	L30	
396 cubic inch V-8 325 HP	L33	
427 cubic inch V-8 390 HP	L36	
427 cubic inch V-8 425 HP	L72	

REGULAR PRODUCTION OPTIONS—CONT'D.

● CHASSIS OPTIONS

Name	Number	Models	
Axle, rear (3.31:1 ratio)	G94	183-15469	
Axle, rear (3.38:1 ratio)	G96	All exc. 6-cyl. wagons	
Axle, rear (3.36:1 ratio)	G76	180-163-16700 exc. wgn. & conv.	
Axle, rear Restriction	G80	All	
Axle, rear (3.73:1 ratio)	H08	154-156-164-166-16800	
Brake, vacuum power	J80	All	
Brake, metallic	J83	All	
Chassis, heavy-duty	Z04	183-15400	
Cover, wheel trim	P01	180-163-16400	
Cover, simulated wire wheel	P02	All	
Cover, simulated magnesium wheel trim	M96		
Shock absorber, rear air lift	G46		
Shock absorber, rear level control	G67	3-seat station wagons	
Springs, heavy duty front	F60		
Steering, power	N40	All	
Steering wheel, tilt	N33		
Steering wheel, tilt telescopic	N37		
Steering wheel, wood grained plastic	N84		
Suspension, heavy duty front and rear	F40		15-16000 exc. 3-seat wagons
Suspension, special performance front and rear	F41	154-156-164-166-16800	
Tires	7.75 x 15-4 pr blackwall nylon	P91	180-163-16400 exc. wagons
	7.75 x 15-4 pr blackwall nylon - tube	P95	
	7.75 x 15-4 pr blackwall rayon	P90	
	7.75 x 15-4 pr blackwall rayon - tube	P93	
	7.75 x 15-4 pr blackwall nylon - tube	P97	
	7.75 x 15-4 pr blackwall rayon	T25	
	7.75 x 15-4 pr blackwall rayon - tube	T27	153-15469
	8.15 x 15-4 pr blackwall rayon	Q04	180-163-16400 exc. wagons
	8.15 x 15-4 pr blackwall nylon	Q05	
	7.75 x 16-4 pr blackwall nylon	P60	All exc. wagons
	7.75 x 16-4 pr whitewall nylon	P61	
	7.75 x 16-4 pr whitewall rayon	P62	
	7.75 x 16-4 pr blackwall special nylon	T06	
	7.75 x 16-4 pr whitewall special nylon	T07	
	8.25 x 16-4 pr blackwall rayon	P73	
	8.25 x 16-4 pr whitewall rayon	P77	
	8.25 x 16-4 pr blackwall nylon	P76	
	8.25 x 16-4 pr blackwall special nylon	T08	All
	8.25 x 16-4 pr whitewall special nylon	T09	
	8.25 x 16-4 pr blackwall nylon	T18	15-16000 wagons
8.25 x 16-4 pr whitewall nylon	T19		
8.25 x 16-4 pr whitewall rayon	P85		
8.25 x 16-4 pr blackwall nylon	P86		
8.25 x 16-4 pr whitewall nylon	P87		
8.25 x 16-4 pr blackwall special nylon	T04		
8.25 x 16-4 pr whitewall special nylon	T05		
8.25 x 16-4 pr blackwall special nylon	T20		
8.25 x 16-4 pr whitewall special nylon	T21		
Wheels, 14 x 6.00JK	F12	All exc. wagons	

● TRANSMISSION OPTIONS

Three speed transmission, heavy duty	M13	154-156-164-16800
Three speed automatic	M40	
Four speed transmission	M20	
Four speed close ratio transmission	M21	
Four speed transmission, heavy duty	M22	
Overdrive transmission	M10	All
Powerglide transmission	M23	

DEALER INSTALLED ACCESSORIES

Air conditioning, recirculating air (Custom)	15-16000 except Caprice
Air deflector, rear window	Station wagons
Antenna, radio front manual	All
Antenna, radio rear manual	All except wagons
Brake, vacuum power	All
Cap, gas tank filler locking	All
Carrier, roof luggage	Station wagons
Clock, instrument panel	15000
Clock, universal (instr. panel top mount.)	All
Compass, auto	All
Container, floor litter (saddle type)	All except floor shift transmission
Container, litter, (instr. panel mtd. (black only)	15-16000 except 16647
Cover, roof luggage carrier	Station wagons
Cover, simulated wire wheel trim	All
Cover, simulated magnesium wheel trim	All
Cover, spare tire	Sedans and coupes etc. with 8.25 x 14 tires
Cover, wheel trim	All except SS
Cruise control	All
Defogger, rear window	All except convertible and wagons
Fan and thermomodulated clutch	154-156-164-16600
Fire extinguisher, 5 pound dry, chemical	
Frame, license plate	All
Guard, door edge	
Guard, front bumper	
Guard, gas tank filler door	Station wagons
Guard, rear bumper	All except wagons
Horn, low "D" note	All
Lamp, ash tray	
Lamp, courtesy	All except sport models
Lamp, glove box	153-15400
Lamp, luggage compartment (Sedans)	15-16000
Lamp, parking brake alarm	15000
Lamp, portable spot	
Lamp, remote control spot	All
Lamp, underhood	
Lock, rear compartment	2-seat wagons
Lock, rear door safety	All four door
Lock release, luggage compartment remote	All except wagons
Lock, spare wheel	All
Luggage carrier, deck lid	All except wagons
Mat, contour twin front floor	All
Mat, contour twin rear floor	
Mat, full width front floor	
Mat, full width rear floor	15-16000 except 16647
Mat, rear compartment floor	Station wagons
Mirror, inside rear view prismatic	
Mirror, outside rear view (right hand)	All
Mirror, outside rear view; replacement kit	
Mirror, remote operated outside rear view	15-16000
Mirror, visor vanity	All except convertible
Molding, hood crown	15000
Moldings, wheel opening	15000 except wagon
Pedal units, Deluxe chrome trim	All except SS
Radiator insect screen	
Radio and antenna, AM-PM push button tuning	
Radio and antenna, manual tuning	
Radio and antenna, push button tuning	All
Radio speaker, rear auxiliary	
Radio stereo equipment	
Road hazard package	
Rain deflector	4-Door only
Seat belt retractor	
Seat cushion, ventilated	All
Switch, traffic hazard lamp	
Tachometer, instrument panel mounted	15-16000 except tilt wheel
Tissue dispenser (saddle type)	
Tissue dispenser, instrument panel	
Tool kit	All
Trailer hitch, 2000 pound capacity	
Wiring harness, car to trailer connecting	

TAXI-CAB-RPO 802

Model Application: 15360-15460

BODY

INTERIOR TRIM
Standard ----- Cloth; medium fawn, blue, red
Optional ----- All vinyl; medium fawn (RPO 865)

FLOORS, FRONT AND REAR
Covering ----- Magic densener material
Mats ----- Black rubber

**SEAT CUSHIONS AND BACKRESTS,
FRONT AND REAR** ----- Heavier springs

DOME LAMP-SWITCHES ----- All doors

OPEN-DOOR WARNING LAMP ----- Under instrument
panel, left of steering column

CHASSIS

FRAME ----- Specially reinforced

SUSPENSION
Coil springs and shock
absorbers, front and rear ----- Heavy duty
Spherical joints, front ----- Metal lined

FRONT WHEEL HUBS AND DRUMS ----- Extra durable
front brake drum webs

WHEELS AND TIRES
Wheel size ----- 15 x 5K
Tire type and size ----- Blackwall tubeless rayon,
7.75-15-4 pr

REAR AXLE
Type ----- 4-link; wheel roller bearings;
8-7/8" ring gear
Ratios ----- Base 3.07 - optional 3.31

BRAKES ----- Extra thick brake facings;
high temperature brake shoe retracting springs

POWER TRAIN

250 CU. IN. L-6 ENGINE

Clutch ----- 11" driven plate; 14" ring gear.
aluminum clutch housing
Crankshaft bearings ----- Truck-type lower
rear main bearing (L-6 Powerglide)
Push rods ----- Heavy duty, hardened tip
Carburetor ----- Economy type with
metering rod for precise mixture control
Battery ----- 61 amp, 12 volts
Piston rings ----- Truck type, top
compression ring with radius-faced molybdenum chan-
nel; heavy duty chrome oil ring segments
Starting motor ----- Heavy duty
starter with special plastic sealant
Water pump ----- Special ceramic rotor seat
Flywheel ----- Large diameter flywheel
with 14" starter gear for increased starting torque
(3-speed manual)
Hydraulic lifters ----- Truck type
Transmission - Powerglide
(250 L-6 engine only) ----- 3-plate clutch
and water cooling system; 11-3/4" heavy duty
converter assembly with drain plugs
Radiator - Powerglide ----- Heavy duty
3-plate transmission oil cooler
Crankcase vent valve ----- Take-apart type

RPO 802 RESTRICTIONS ----- Not available
with air conditioning, overdrive, 4-speed, L-30 (322 V-8),
L-35 (396 V-8), L-36 (427 V-8), L-72 (427 V-8)

HEAVY DUTY CHASSIS AND BODY EQUIPMENT

Model Application: 15311-15411
15369-15469
15335-15435

BODY (RPO B01)

INTERIOR TRIM

Standard (sedan) ----- Cloth; medium fawn, blue, red
Optional (sedan) ----- All vinyl; medium fawn (RPO 865)
Standard (station wagon) ----- All vinyl; medium fawn,
blue, red

FLOORS, FRONT AND REAR

Covering ----- Mastic deadener material
Mats ----- Black rubber

SEAT CUSHIONS AND BACKRESTS

Front (sedan and station wagon) ----- Heavier springs
Rear (sedan only) ----- Heavier springs

CHASSIS (RPO Z04)

FRAME ----- Specially reinforced

SUSPENSION

Coil springs and shock
absorbers, front and rear ----- Heavy duty
Spherical joints, front ----- Metal lined

FRONT WHEEL HUBS AND DRUMS ----- Heavy duty
with extra durable front brake drum webs

REAR AXLE

Type ----- Heavy duty 4-link;
heavy duty wheel roller bearings; heavy duty 8-7/8"
ring gear
Ratios ----- 3.07 -- V-8 sedan and wagon
3.31 -- L-6 sedan
3.55 -- L-6 wagon

STABILIZER BAR, FRONT ----- Standard on V-8;
optional on L-6

BRAKES ----- Extra thick brake facings;
high temperature brake shoe retracting springs

POWER TRAIN (RPO Z04)

CLUTCH ----- 11" heavy duty ●

TRANSMISSION - POWERGLIDE

(L-6 engine) ----- 5-plate heavy duty clutch and
water cooling system; 11-3/4" heavy duty converter
assembly with drain plugs

RADIATOR - POWERGLIDE ----- Heavy duty 2-plate
transmission oil cooler

AIR CONDITIONING AND EQUIPMENT

COMFORTRON AUTOMATIC TEMPERATURE CONTROL (RPO C75)

Fully integrated air cooling and heater system; automatically controlled by pre-setting on instrument control panel.

FOUR SEASON (RPO C60)

Heater integrated; manually controlled by knobs on instrument control panel, that operate bowden cables to activate various doors and switches to operate system.

BASIC COMPONENTS

Evaporator, blower, condenser, receiver-dehydrator, refrigerant (freon) tank, air intake assembly and duct assembly for both systems. The Comfortron also includes sensors, amplifier, transducer and power servo unit for automatic operation.

EQUIPMENT (Used in addition to or in place of base equipment)

CHASSIS

Front and Rear Springs Heavy duty
Rear Axis Ratio (L6-250 and V8-283 Cu.in. Engines) 3.36:1

POWER TRAINS

Fan Blade 5 blade
Fan Clutch Thermomodulated fluid coupling*
Crankshaft Pulley Dual
Water Pump & Fan Pulley Dual
Compressor & Crankshaft Belt One*
Generator 61 Ampere
Radiator Heavy duty
Radiator Shroud Steel; 19.34 dia.*

* Additional equipment; also brackets, supports, braces, hoses, etc. as required for installation.



1966
PASSENGER
CAR
SPECIFICATIONS

CHEVROLET



CHEVROLET ENGINEERING CENTER



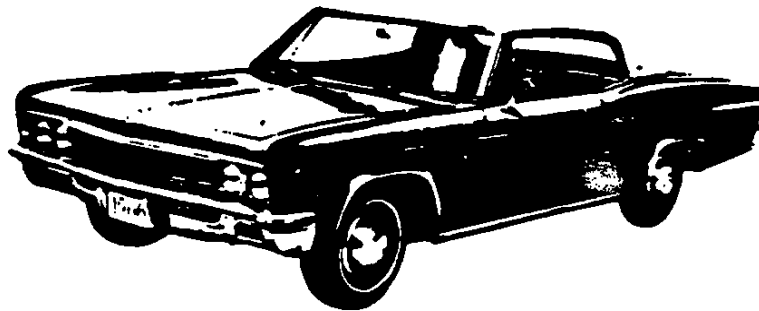
ENGINEERING PRODUCT INFORMATION DEPARTMENT
WARREN • MICHIGAN



•
•
•
•



DIMENSIONS AND WEIGHTS



INTERIOR DIMENSIONS	2
LUGGAGE CAPACITY	2
STATION WAGON CARGO SPACE	2
EXTERIOR DIMENSIONS	3
VEHICLE WEIGHTS	4

INTERIOR DIMENSIONS

FRONT COMPARTMENT

CODE	DESCRIPTION	SEDANS		SPORT	SPORT COUPES		CONVERTIBLES		STATION WAGONS
		2-DR	4-DR	SEDANS	BN	BKT	BN	BKT	
H3	Seat cushion height		11.4		11.6	12.0	11.6	12.0	11.6
H11	Entrance height		30.4	29.9		29.8	29.9	29.8	30.4
H13	Steering wheel thigh clearance		4.0		3.9	3.8	3.9	3.8	4.0
H30	H point to heel point		9.0		9.2	9.4		9.3	9.2
H32	Seat cushion deflection		4.4	4.5	4.4	4.1	4.5	4.1	4.2
H50	Upper body opening to ground		44.4	44.0			44.1		44.4
H58	H point rise			.7			.8		.7
H61	Effective headroom		39.1	38.1	38.2	37.6		38.8	39.2
H70	H point to body O line		14.0			14.2			14.0
W3	Shoulder room			62.3			62.4		62.3
W5	Hip room		63.9			63.7			63.9
L7	Steering wheel torso clearance			11.0			11.4	11.7	11.0
L17	H point travel					4.8			
L34	Effective leg room			42.2		42.3		42.0	42.1

REAR COMPARTMENT

H8	Seat cushion height		14.2	14.5			13.2		14.6
H12	Entrance height		---	29.9	30.0		---	---	29.8
H31	H point to heel point		12.0	10.9			10.7		11.9
H33	Seat cushion deflection		3.3	4.9			4.1		4.5
H51	Upper body opening to ground		---	44.1	43.5		---	---	44.3
H63	Effective headroom		37.8	37.3	37.2	37.4	37.8		38.8
H71	H point to body O line		14.2	13.5			13.3		14.5
W4	Shoulder room	60.7		61.3		61.0		53.1	61.4
W6	Hip room	62.2	62.9	63.0			55.5		63.2
L3	Rear compartment room		28.8		26.5	26.7	25.7		28.7
L50	H point couple distance		36.2	35.8	33.1	33.0	33.3		34.6
L51	Effective leg room	38.9	39.5	38.5	34.9	36.3	34.9	36.3	37.5

STATION WAGON THIRD SEAT

W85	Shoulder room								49.7
W86	Hip room								49.2
H86	Effective headroom								36.2
L86	Effective leg room								33.3
L87	Knee room								12.8

LUGGAGE COMPARTMENT

---	Compartment opening width				35.5				
---	Compartment interior height				21.0				
---	Compartment interior width				74.0(a)				
---	Compartment interior length				64.3				
H195	Compartment loading height			24.8			25.3		
V1	Usable luggage capacity (cu.ft.)	18.3			17.3		20.7		
---	Total compartment volume (cu.ft.)			28.7					

STATION WAGON CARGO SPACE

H201	Maximum cargo height								30.7
H202	Rear opening height								28.8
W250	Tail gate to ground height								24.7
W200	Cargo width - front								63.2
W201	Cargo width - wheelhouse								49.7
W203	Rear opening width at floor								52.4
W204	Rear opening width at belt								52.4
W205	Rear opening width above belt								52.4
L200	Maximum cargo length - front seat								122.8
L201	Maximum cargo length - second seat								88.6
L202	Cargo length at floor - front seat								96.0
L203	Cargo length at floor - second seat								61.7
L204	Cargo length at belt - front seat								86.0
L205	Cargo length at belt - second seat								49.7
V2	Total cargo volume (cu.ft.)								94.1(b)

(a) 68.0 on Caprice coupes and sedans.

(b) 12.0 for compartment on 2-seat wagons; 7.2 on 3-seat wagons.

EXTERIOR DIMENSIONS

LENGTHS

CODE	DESCRIPTION	SEDANS		SPORT SEDANS	SPORT COUPES	CONVERTIBLES	STATION WAGONS
		2-DR	4-DR				
L101	Wheelbase	119.0					
L102	Tire size (standard)	See Chassis Section Page 3.					
L103	Overall length	213.2					
L104	Overhang - front	34.9					
L105	Overhang - rear	59.3					
----	Overall length - less bumpers	210.5					
L127	Body O line to C/L of rear wheels	100.0					
L128	Hood length at centerline	59.5					

WIDTHS

W101	Tread - front	62.5					63.5
W102	Tread - rear	62.4					63.4
W103	Maximum overall width of car	78.4(a)					
W106	Front fender overall width	78.6					
W120	Overall car width, front doors open	163.8	143.3	163.8	143.3	143.3	
W121	Overall car width, rear doors open	---	143.8	---	---	143.8	

HEIGHTS

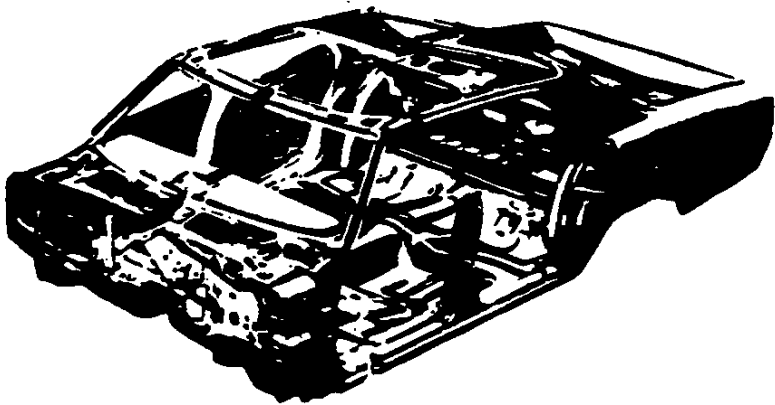
H101	Overall height (design)	55.4	54.5	54.4	55.3	56.7
----	Overall height (curb)	57.1	56.1	56.0	56.8	58.2
H102	Front bumper to ground	14.0	13.8	13.6	13.9	15.0
H104	Rear bumper to ground	12.0		11.8	12.5	12.9
H111	Rocker panel to ground - rear	9.8		9.6	9.8	10.6
H112	Rocker panel to ground - front	7.6		7.4	7.9	9.9
H114	Hood at rear to ground	38.0		37.8	38.0	39.2
H115	Step height - front (design)		12.8		12.5	14.4
H116	Step height - rear (design)	---	12.2	---	---	14.1
H125	Headlamp to ground		27.7		28.1	28.1
H126	Tail lamp to ground		23.0		22.8	24.8
H130	Step height - front (curb)		14.5		14.7	15.9
H131	Step height - rear (curb)	----	14.2	---	---	15.8
H136	Body O line to ground - front		6.8		6.3	7.4
H137	Body O line to ground - rear	5.4		5.1	5.3	6.9

CLEARANCES

		28°	27°	27°	28°	30°
H106	Angle of approach	28°	27°	27°	28°	30°
H107	Angle of departure	12°		12°	13°	13°
H147	Ramp breakover angle	14°		14°	14°	17°
H148	Front suspension to ground	7.7			7.4	8.4
H149	Oil pan to ground	6.8		6.5	6.8	7.8
H150	Flywheel housing to ground	7.1		6.8	7.1	8.3
H151	Frame to ground					
H152	Exhaust system to ground	8.8		8.5	8.7	7.4
H153	Rear axle to ground		6.4		6.8	7.4
H154	Fuel tank to ground	7.2		7.0	7.6	11.1
H155	Tire well to ground					
H156	Minimum ground clearance		5.7		5.5	5.7

(a) 80.0 on Bel Air models.

BODY



EXTERIOR PAINT 2
EXTERIOR-INTERIOR COLOR COMBINATIONS 3
BODY CONSTRUCTION AND GLASS AREA 6

EXTERIOR PAINT PROCESS



1. **RUSTPROOFING . . .** Bare steel is thoroughly treated with chemicals that etch the metal for improved paint adhesion. This chemical also cleans the metal to give it a corrosion-resisting surface.
2. **BODY AND SHEET METAL PRIMER . . .** Four different and specially formulated corrosion resistant primers are used during sub-assembly of the body where rust could possibly develop. Areas considered especially critical are subsequently coated with another type rust inhibiting compound, after the lacquer coats have been applied.
A primer coat is applied to all outside and inside surfaces of the front fenders and hood. This is done by dipping or flowcoating to insure coating in all seams and secluded areas, and then baking at 390 degrees F for 30 minutes. After baking, a coat of sealer is applied to all surfaces requiring a subsequent coat of lacquer.
3. **PRIMER-SURFACER COAT AND FLASH PRIMER COAT . . .** An air dried flash primer coat is applied to surfaces below the beltline. Next, a full primer-surfacer coat is applied to all outside surfaces of the body receiving lacquer and then oven baked for 45 minutes at 285 degrees F.
4. **SANDING . . .** Power wet sanding followed by hand sanding is done on all surfaces requiring lacquer.

Upon inspection, spot sanding assures an absolutely smooth surface for the lacquer. After lacquer application and initial baking, final wet sanding, both power and hand, prepares the body for final baking by removing surface irregularities.

5. **LACQUERING . . .** Many coats of acrylic lacquer are now sprayed on the surfaces to build up a finish of the required thickness for each color.
6. **INITIAL BAKING . . .** To set up the paint hardness for final sanding the body is baked for approximately 10 minutes at 300 degrees F.
7. **FINAL BAKING . . .** To ensure a durable, hard, high luster finish the lacquer is now baked for 30 minutes at 275 degrees F. Reheating the lacquer after final sanding permits paint film to soften and allows surface blemishes and sanding scratches to disappear during the thermo-reflow process.
8. **UNDERCOATING . . .** An asphaltic based-asbestos fiber type sound deadener is sprayed inside the wheel housings and on the underside of the underbody at designated locations to block out road noises.
9. **PAINT REPAIR . . .** Any slight marks, nicks, or scratches that might occur during final assembly are factory-repaired and corrected before shipment. Light "shush" polishing is done to bring painted surfaces to a high luster finish. Wax is sprayed on each vehicle for protection during transit.

EXTERIOR-INTERIOR COLORS

BISCAYNE 153-15400 SERIES

BEL AIR 155-15600 SERIES

EXTERIOR			INTERIOR TRIM COLORS AND RPO NUMBERS						
			Med. Fawn	Red	Blue	Med. Fawn	Turq.	Red	Blue
			Models 15411-69			Models 15611-69			
RPO	Color	Sales Name	860	876	840	863	850	872	839
			Model 15433			Models 15633-45			
RPO	Color	Sales Name	861	877	833	867	854	878	833
AA	Black	Tuxedo Black	X	X	X	X	X	X	X
CC	White	Ermine White	X	X	X	X	X	X	X
DD	Med. Blue	Mist Blue			X				X
EE	Dk. Blue	Damask Blue			X				X
FF	Brt. Blue	Marina Blue			X				X
HH	Med. Green	Willow Green	X			X			
KK	Med. Turq.	Artesian Turquoise	X			X	X		
LL	Dk. Turq.	Tropic Turquoise	X			X	X		
MM	Bronze	Astec Bronze	X			X			
NN	Maroon	Madeira Maroon	X	X		X		X	
RR	Red	Royal Red		X				X	
TT	Fawn	Sandalwood Tan	X			X			
VV	Beige	Cameo Beige	X			X			
WW	Slate	Chateau Slate			X				X
YY	Yellow	Lemonwood Yellow	X			X	X		
Two-Tone (Lower/Upper)									
CK	White/Med. Turquoise		Not Available				X		
DC	Med. Blue/White				X				X
DE	Med. Blue/Dk. Blue				X				X
HC	Med. Green/White		Not Available				Not Available		
LC	Dk. Turquoise/White		Not Available				X		
NA	Maroon/Black		Not Available				Not Available		
TV	Fawn/Beige		X		X				
WA	Slate/Black		Not Available				Not Available		

EXTERIOR-INTERIOR COLORS—Cont'd

IMPALA 163-16400 SERIES

IMPALA SUPER SPORT 167-16800 SERIES

CAPRICE CUSTOM WAGONS 16600 SERIES

INTERIOR TRIM COLORS AND RPO NUMBERS										
Li. Fawn	Turq.	Red	Blue	Bright Blue	Green	Black	White (Black)			
Models 16437-39-66 (a)										
866	833	874	842	---	836	811	---			
Models 16467-35-45-16635-45 (b)										
870	867	871	836	---	829	814	---			
Models 16637-67 (c)										
RPO	Color	Sales Name	869	846	873	837	844	830	813	885
AA	Black	Tuxedo Black	X	X	X	X	X	X	X	X
CC	White	Ermine White	X	X	X	X	X	X	X	X
DD	Med. Blue	Mist Blue	X			X			X	X
EE	Dk. Blue	Damne Blue	X			X			X	
FF	Brt. Blue	Marine Blue				X	X		X	X
HH	Med. Green	Willow Green	X					X	X	X
KK	Med. Turq.	Artesian Turquoise	X	X					X	
LL	Dk. Turq.	Tropic Turquoise	X	X						
MM	Bronze	Aztec Bronze	X						X	
NN	Maroon	Madeira Maroon	X		X				X	X
RR	Red	Regal Red			X				X	X
TT	Fawn	Sandalwood Tan	X						X	
VV	Beige	Cameo Beige	X						X	X
WW	Slate	Chateau Slate				X	X		X	X
VV	Yellow	Lemonwood Yellow	X	X				X	X	X
Two-Tone (Lower/Upper)										
CK	White/Med. Turquoise			X						
DC	Med. Blue/White				X					
DE	Med. Blue/Dk. Blue				X					
HC	Med. Green/White							X		
LC	Dk. Turquoise/White			X						
NA	Maroon/Black								X	
TV	Fawn/Beige		X							
WA	Slate/Black								X	

(a) Bench seat - cloth.

(b) Bench seat - vinyl. Trim 814 also available as shown for Models 16437-39.

(c) Bucket seat - vinyl.

(d) Not available for Caprice Custom wagons.

Convertible top: White (regular production), black or beige (RPO C05) with any exterior color.

Vinyl top option (RPO C05): Black or beige with any exterior color.

• NA 16467, 16800

CAPRICE 16600 SPORT COUPE AND SPORT SEDAN

INTERIOR TRIM COLORS AND RPO NUMBERS								
			Lt. Fawn	Turg.	Red	Blue	Black	Bronze
Model 16639-47 (a)								
857	---	---	---	---	843	---	817	---
Model 16647 (b)								
864	---	---	---	---	841	---	816	---
Model 16647 (b)								
856	848	879	831	---	---	---	813	891
Model 16639 (c)								
EXTERIOR			868	---	---	834	818	---
RPO	Color	Sales Name						
AA	Black	Tuxedo Black	X	X	X	X	X	X
CC	White	Ermine White	X	X	X	X	X	X
DD	Med. Blue	Mist Blue				X	X	
EE	Dk. Blue	Danube Blue				X	X	
FF	Brt. Blue	Marina Blue				X	X	
HH	Med. Green	Willow Green	X				X	
KK	Med. Turg.	Artesian Turquoise	X	X			X	
LL	Dk. Turg.	Tropic Turquoise	X	X				
MM	Bronze	Astec Bronze	X					X
NN	Maroon	Madeira Maroon	X		X		X	
RR	Red	Regal Red			X		X	
TT	Fawn	Sandalwood Tan	X				X	
VV	Beige	Cameo Beige	X				X	X
WW	Slate	Chateau Slate				X	X	
YY	Yellow	Lemonwood Yellow	X	X			X	
Two-Tone (Lower/Upper)								
CK	White/Med. Turquoise		No two-tone combinations offered for these models					
DC	Med. Blue/White							
DE	Med. Blue/Dk. Blue							
HC	Med. Green/White							
LC	Dk. Turquoise/White							
NA	Maroon/Black							
TV	Fawn/Beige							
WA	Slate/Black							

- (a) Regular production bench seat - cloth.
- (b) Bucket seat option - vinyl. RPO A51 required.
- (c) Bench seat option - cloth. RPO A53 required.
- Vinyl top option (RPO C08): Black or beige with any exterior color.

BODY CONSTRUCTION AND GLASS AREA

GENERAL

Type ----- Unisocal, with cowl, roof, underbody and body panels welded to form body shell. Doors, front and rear lids are of double-panel construction and hinge assembled to body. Separate frame and bolt-on front end sheet metal, with protective inner fender skirts.

DOORS AND LOCKS

Door construction ----- Double steel panels, hinged at front
 Door handles ----- Push-button with fork type door locks. Inside push button locks on all doors.
 Door ventipanes ----- Crank operated

HOOD AND TRUNK LID

Type ----- Counterbalanced, with spring loaded toggle action hinges on rear of hood and boned hinges on trunk lid with torsion rod.
 Hood release ----- External, top of grille, off center, with finger press release

VENTILATION

High level with double wall plenum chamber, providing washing and air drying of rocker panels for corrosion resistance. Air and water travel through rocker panels and drain at ends of rocker inner panels.

SEAT CONSTRUCTION

Type --- Front seat cushion
 1.00 poly foam ----- 153-154-155-15600;
 163-164-16635,45
 1.50 foam rubber ----- 167-16800
 1.75 poly foam ----- 163-16457,39,67,69
 1.75 poly pad ----- 16647,39
 Rear seat cushion
 1.75 poly foam ----- 163-16400; 16635,45;
 167-16800
 Jute and cotton ----- 153-154-155-15600
 1.75 poly pad ----- 16647,39
 .75 poly foam ----- 153-156-163-164-16645

WINDSHIELD WIPERS AND WASHERS

Type ----- Dual 2-speed electric
 Linkage ----- Parallel acting

SPARE TIRE AND TOOLS

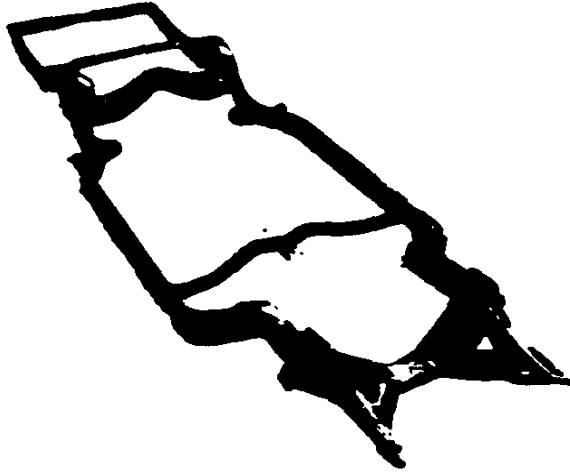
Location ----- Sedans and sport coupe, sagged on center of shelf in trunk compartment; Station wagon, vertically in right hand side of cargo compartment rear of wheelhouse behind removable cover. Convertible, right side of trunk compartment rearward of wheelhouse. Tools consist of bumper jack with combination lever handle and wheel nut wrench stored under tire.

BODY GLASS (SQ. IN.)

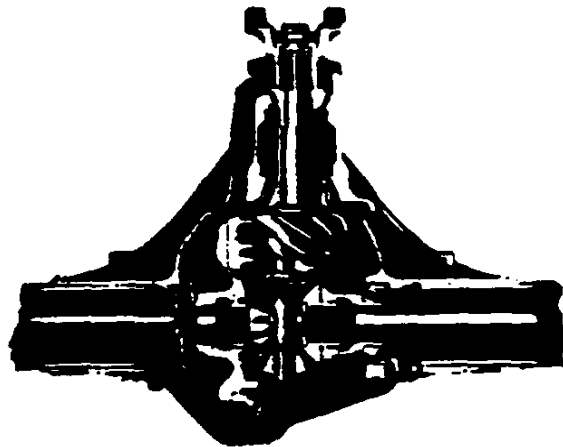
LOCATION	TYPE	MODELS							
		69	39	11	37	47	67	25	45
Windshield		1448.1	1384.3	1448.1		1384.3			1448.1
Front door	Ventipane	73.0	67.0	73.0		67.0			73.0
	Window	645.9	646.6	674.7	666.4	832.8	859.4		645.9
Rear door window		647.3	683.4						646.0
Rear quarter	Window			436.0	382.0	416.4	400.4		
	Rear side								1187.4
Back window		1173.5	1213.6	1173.5	1381.0	911.0	813.0		925.9
Total visibility area		3967.8	4014.9	4008.3	4100.7	2431.5	3544.1		4946.3

● All window glass curved safety solid plate except curved laminated safety windshield and flat safety solid plate convertible rear window.

CHASSIS



FRAME AND FRONT SUSPENSION	2
STEERING, DRIVELINE, WHEELS AND TIRES	3
REAR AXLE AND REAR SUSPENSION	4
BRAKES	5
BULBS, FUSES, AND CIRCUIT BREAKERS	6



FRAME AND FRONT SUSPENSION

FRAME

Description All welded perimeter frame, with front crossmember, rear axle upper control arm crossmember, rear shock absorber crossmember, and rear crossmember. Center sections and rear axle pickup are hot welded construction. Body mounting points, Convertible 14, Station wagons 12, all others 10.

FRONT SUSPENSION

Description Independent, SLA type with coil springs and concentric shock absorbers and spherically jointed steering knuckles for each wheel. Strut supported lower control arm.

Wheel travel (design)
 Total 8.55
 Jounce 4.65
 Rebound 3.90
 Wheel to spring, travel ratio 1.86

CONTROL ARMS

Description Reinforced steel stamping with pre-loaded, steel encased rubber bushings at pivot.

STEERING KNUCKLES

Description Forged steel, with integral brake cylinder mounting, and detachable steering knuckle arm

Spindle diameters
 Inner bearing 1.2493-1.2498
 Outer bearing7492-.7497
 Spindle thread size 3/4-20 NEF-3 (modified)
 Wheel bearing
 Type Taper roller
 Number Two per spindle

SPHERICAL JOINTS

Type Ball studs, upper self-adjusting for wear
 Bearing surfaces
 Upper Two bearings, both non-metallic; upper surface urea-form-coated phenolic, lower surface urea-form-epoxy composition
 Lower One upper surface, urea-form-epoxy composition

SHOCK ABSORBERS

Type Direct, double-acting, hydraulic
 Piston diameter 1.00

STABILIZER BAR

Type Link*
 Material HR steel
 Diameter Wagons, .9375; others .8125

FRONT WHEEL ALIGNMENT

Camber (degrees) N1/4 to P3/4 curb
 Caster (degrees) N1/4 to P3/4 curb
 Toe-in (total) 1/8 to 1/4 curb
 SAI (degrees) 7 to 8 curb

GENERAL SUSPENSION PROVISIONS

Car leveling Front stabilizer bar
 Brake dip control Angle of front upper control arm
 Squat control Rear suspension geometry
 Driveline alignment Rear control arm shims

FRONT SPRINGS

Part Number	Ref.	Type	Material	Cut-off Length	Wire Dia.	Inside Dia.	Heights		Deflection rate (lbs per inch)	
							Free	Working (In. @ lbs)	@ Spring	@ Wheel
3862977	A	Coil, right hand helix	AISI A-5160	113.4	.641	3.800	15.7	11.76@1520	390	136
3862967	B			141.1	.636	3.800	17.9	11.76@1770	290	104
3864716	C			141.1	.636	3.800	17.4	11.76@1630	290	104
3864719	D			141.1	.636	3.800	17.7	11.76@1725	290	104
3864715	E			126.6	.614	3.800	17.2	11.76@1580	290	104
3864714	F			126.6	.614	3.800	16.9	11.76@1495	290	104
3864718	G			141.1	.636	3.800	17.7	11.76@1690	290	104
3890610	H			141.1	.636	3.800	18.4	11.76@1420	290	104
3862978	I			128.1	.668	3.800	15.9	11.76@1620	390	136
3862969	J			141.1	.636	3.800	18.1	11.76@1810	290	104
3869404	K			128.1	.668	3.800	16.4	11.76@1800	390	136
3862976	L			113.4	.641	3.800	15.4	11.76@1440	390	136
3895805	M			112.2	.590	3.800	16.2	11.76@1290	290	104
3862970	N			141.1	.636	3.800	18.1	11.76@1850	290	104

	Engines				Engines			
	250 Cu. In. L-4 Engine				283 Cu. In. V-8 Engine			
	15300	15500	16300 (c)	15100	15400	16400	16600 (b)	
Media	11 69 33	11 69 33 43 59 59	57 57 35 43	11 69 33	11 69 33 43 59 59	57 57 35 43	39 47 33 43	
3 and 4-Speed (a), PG Appl.	L L F L L	F A F F M M	F A E E F E F A C G H H F A C H F A					

- (a) 4-speed used with 283 V-8.
 (b) 16600 models same as 16437, 67.
 (c) 16700 models same as 16337, 67.
 * Not available on Bel Air & Biscayne 6-cyl. 2 & 4 door sedans.

	337 Cu. In. V-8 Engine (RPO L30)											
3 and 4-Speed, Powerglide	G	C	E	C	E	I	C	G	P	F	E	I

	346 Cu. In. V-8 Engine (RPO L35)											
3 and 4-Speed, Automatic	D	B	K	D	B	K	K	J	N	G	I	K

	427 Cu. In. V-8 Engine (RPO L36)										
3 and 4-Speed, Hydra-Matic	B	B	K	B	B	K	J	J	C	K	K

STEERING, DRIVELINE, WHEELS AND TIRES

MANUAL STEERING (Standard)

Description Semi-reversible, recirculating ball nut gear.
 Tilt telescoping steering wheel optional.
 Ratios Gear, 24:1; Overall 28.3:1
 Turning diameters (ft)
 Outside front, wall to wall 44.1
 Outside front, curb to curb 40.8
 Inside rear, wall to wall 24.2
 Inside rear, curb to curb 24.5
 Number of wheel turns, lock to lock 5.42
 Outside wheel angle with inside wheel
 @ 15 degrees 15.26
 @ 20 degrees 20.29
 @ 36 degrees (limit of turn) 34.32
 Linkage Parallelogram, rear of wheels, 2 tie rods
 Steering wheel
 Standard and optional tilt telescoping wheel ---- Deep
 dished, 16.5 diameter

POWER STEERING, RPO N40

(same as standard Manual Steering except as shown)
 Type Integral gear, with vane type pump driven by crankshaft pulley providing hydraulic pressure
 Ratios Gear, 17.5:1; Overall 19.4:1
 Number of wheel turns, lock to lock 3.52

DRIVELINE

Type Tubular, exposed
 Number used One
 Diameter (OD) 3.25
 Length (C/L of U-joints) 62.16
 Wall thickness065
 Universal joints
 Type Cross
 Number used Two
 Bearings Prepack, anti-friction
 Drive and torque Through rear suspension control arms

WHEELS

Type Short spoke spider
 Attachment to hub 5 hex nuts, 7/16-20 UNF 2-B, arranged on a 4.75 diameter bolt circle
 Rim size
 All except wagons 14 x 5J
 Wagons 14 x 6JK
 Offset
 14 x 5J56
 14 x 6JK06

● TIRES

Type Rayon, tubeless, blackwall
 Construction 2 ply
 Rating 4 ply
 Size
 250 L-6, 283 V-8, 327 V-8 and 396 V-8 models
 except wagons 7.75 x 14
 437 V-8 models
 except wagons 8.25 x 14
 All wagons 8.55 x 14

TIRE SPECIFICATIONS ●

		7.75x14-4PR	8.25x14-4PR	8.55x14-4PR
Loaded rolling radius		12.4	12.9	12.9
Loaded rev/mi @ 50 MPH		779	755	743
Capacity (lb @ PSD)		1270 @ 24	1380 @ 24	1430 @ 22 1580 @ 26
Recommended pressure (cold)†	Front	24	24	22
	Rear	24	24	26

† Average Load

REAR AXLE AND SUSPENSION

REAR AXLE

Description Semi-floating; housing consists of two welded tubes pressed into crossbars of cast iron differential carrier. Carrier contains an overhung pinion and hypoid gear supported by two taper roller bearings.

Pinion offset 1.50

Hypoid gear PD
 3.08, 3.36, 3.70:1 8.125
 3.31, 3.55, 2.73:1 8.875

Pinion bearing adjustment Shim

Lubricant
 Type Military Spec. MIL-L-2105-B
 Viscosity SAE 80
 Capacity (qts) 8.125 hypoid gear 3.5
 8.875 hypoid gear 4.0

Ratios (standard production)
 3-speed, automatic, 250 L-6
 Coupes and sedans 3.08
 Convertibles 3.36
 Wagons 3.55
 Overdrive 3.70
 3-speed, automatic, 283 V-8
 154-15600 sedans 3.08
 All except 154-15600 sedans 3.36
 Overdrive 3.70
 4-speed, 283 V-8 3.08

AXLE SHAFT

Type Forged and hardened steel with integral drive flange

Wheel bearings Single row cylindrical roller, one per wheel

Oil seal Steel encased, spring loaded synthetic rubber

HYPOID AND PINION GEAR TOOTH COMBINATIONS

3.08 (8.125 hypoid gear) 37,12
 3.31 (8.875 hypoid gear) 43,13
 3.36 (8.125 hypoid gear) 37,11
 3.55 (8.875 hypoid gear) 39,11
 3.70 (8.125 hypoid gear) 37,10
 2.73 (8.875 hypoid gear) 41,15

POSITRACTION DIFFERENTIAL (see Power Trains)

Type Two pinion with dual disc clutches

REAR SUSPENSION

Description Link type; except wagons, 2 lower control arms, 1 upper control arm, and tie rod from axle to frame; Wagons, 2 upper and 2 lower control arms and tie rod. Drive and torque taken through control arms.

Wheel travel (design)
 Total 9.99
 Jounce 3.93
 Rebound 6.06
 Wheel to spring, travel ratio 1.52

SHOCK ABSORBERS

Type Direct double acting, hydraulic
 Piston diameter 1.00

REAR SPRINGS

Part Number	Ref.	Type	Material	Cut-off Length	Wire Dia.	Inside Dia.	Heights		Deflection rate (lbs per inch)	
							Free	Working (In. @ lbs)	@ Spring	@ Wheel (Wheel Rate)
3869409	A	Coil, right hand helix	AISI A-5160	135.6	.678	4.00	17.5	12.37 @ 1725	340	155
3869410	B			129.5	.715	4.00	16.5	12.37 @ 1830	450	200
3882960	C			126.0	.597	4.00	17.6	12.37 @ 1190	230	105
3882961	D			126.0	.608	4.00	17.8	12.37 @ 1240	230	105
3882962	E			133.7	.608	4.00	18.2	12.37 @ 1300	230	105
3882963	F			133.7	.608	4.00	18.2	12.37 @ 1340	230	105
3880431	G			126.9	.621	4.00	17.1	12.37 @ 1180	265	120
3895806	H			112.7	.577	4.00	17.1	12.37 @ 1090	230	105
3895807	I			126.5	.597	4.00	17.3	12.37 @ 1140	230	105

	250 Cu. In. L-6 Engine						283 Cu. In. V-8 Engine																			
	13300	13300	13300	13300 (c)	13400	13400	16400	16400	16400	16400 (b)	16400 (b)															
Models	11 69 83	11 69 83	43 69 83	39 37 67 83 43	11 69 83	11 69 83 43	59 59 57 67 83 43	59 47 83 43	59 47 83 43	59 47 83 43	59 47 83 43															
3 and 4-Speed (a), PG App.	G	G	G	A	B	E	H	H	A	B	C	D	A	C	D	A	B	E	E	D	A	B	E	I	A	B

	327 Cu. In. V-8 Engine (RPO L30)																
3 and 4-Speed, Powerglide	C	D	A	C	D	A	B	D	E	I	I	A	B	E	I	A	B

	306 Cu. In. V-8 Engine (RPO L35)																
3 and 4-Speed, Automatic	C	D	A	C	D	A	B	D	E	I	I	A	B	E	I	A	B

	427 Cu. In. V-8 Engine (RPO L36)																
3 and 4-Speed, Hydra-Matic	D	D	A	D	D	A	B	D	E	I	I	A	B	F	I	A	B

(a) 4-speed used with 283 V-8.
 (b) 16800 models same as 16437, 67.
 (c) 16700 models same as 16337, 67.

BRAKES

SERVICE BRAKES (Standard)

Type	Duo-servo, 4-wheel hydraulic, reverse self-adjusting
Line pressure, psi, @ 100 lb. pedal load	717
Braking ratios	
Pedal	5.63
Hydraulic	4.82
Overall	27.14
Distribution of braking effort (theoretical, percent)	
Front wheels	58.5
Rear wheels	41.5
Brake drum	
Diameter, front and rear	11.0
Construction	Composite, web cast into rim
Material	
Web	HR steel
Rim	Cast iron alloy
Sweep drum area (sq. in.)	328.3
Brake lining	
Material	Full molded asbestos composition
Length	
Primary shoes, front and rear	9.25
Secondary shoes, front and rear	11.63
Width	
Front wheels, primary and secondary	2.75
Rear wheels, primary and secondary	2.00
Thickness minimum @ centerline .....	.168
Method of attachment	Bonded
Total effective area (sq. in.)	184.3
Gross lining area (sq. in.)	198.4
Master cylinder	
Piston diameter	1.00
Piston travel (available pedal travel)	1.15
Wheel cylinders	
Piston diameter	
Front	1.1875
Rear	1.00
Fox pedal travel	6.48

PARKING BRAKE

Type	Mechanical; pull rods and cables operate two rear service brakes
Total effective area (sq. in.)	76.5
Control	Pushbutton foot pedal; release by T handle located below instrument panel to left of steering column

SERVICE BRAKES, METALLIC (RPO J65) (Same as standard production SERVICE BRAKES except as follows)

Line pressure, psi, @ 100 lb. pedal load	936
Braking ratios	
Pedal	5.63
Hydraulic	6.30
Overall	35.47
Brake lining	
Material	Slotted iron segments
Size	
Front wheel segments	
Primary	1.64 x 1.37 x .175
Secondary	1.64 x 1.37 x .295
Rear wheel segments	
Primary	2.00 x 1.00 x .175
Secondary	2.00 x 1.00 x .295
Segments per shoe	
Primary, front and rear	6
Secondary, front & rear,	10
Method of attachment	Welded
Total effective area (sq. in.)	145.2
Master cylinder	
Piston diameter .....	.875

POWER BRAKES (RPO J50)

(Same as standard production SERVICE BRAKES except as follows)

Type	Vacuum power unit added to assist standard master cylinder, integral
Pedal effort	Approximately 30% less than standard service brakes at same deceleration rate

● Braking ratios

With standard production service brake linings	
Pedal	3.54
Hydraulic	4.82
Overall	17.06
With metallic service brake linings	
Pedal	3.54
Hydraulic	6.30
Overall	22.30
Master cylinder	
Piston travel (available pedal travel)	1.2
Fox pedal travel	4.24

BULBS, FUSES, AND CIRCUIT BREAKERS

LAMP	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP	
Ash tray	1-53	1	
Automatic transmission position pattern	1-1895	2	
Back up	2-1156	32	
Clock	Except 16500 & 600, 2-1895	2	
	16500 & 600, 1-1895	2	
Courtesy			
Instrument panel	2-431	6	
Rear quarter (9-passenger)	1-90	6	
Seat separator	1-312	6	
Directional signal indicator	2-1445	1	
Dome			
Roof center	1-311	15	
Rear quarter	2-90	6	
Side rail	2-90	6	
Generator indicator	1-1895	2	
Glove compartment	1-1895	2	
Headlamp bi-beam indicator	1-1895	2	
Headlamp	Outer	2-4002	High beam 37.5W Low beam 55.0W
	Inner	2-4001	High beam 37.5W
Heater controls	2-1895	2	
Ignition switch	1-1445	1	
Instrument cluster	4-1895	2	
License plate, rear	1-1155	4	
Luggage compartment	1-1003	15	
Oil pressure indicator	1-1895	2	
Parking			
Park		4	
Turn	2-1157	32	
Parking brake alarm	1-357	2	
Radio	1-1895	2	
Spot lamp			
Inside operated	1-4405	30W	
Portable	1-4416	30W	
Tachometer	1-1895	2	
Tail			
Tail only (15500 & 600)	2-67	4	
Tail, stop and turn	15000, 4-1157	Tail, 4; stop and turn, 32	
	16000, 6-1157	Tail, 4; stop and turn, 32	
Temperature indicator	2-1895	2	
Traffic hazard indicator	1-1445	1	
Underhood	1-93	15	
Vacuum gage	2-1895	2	

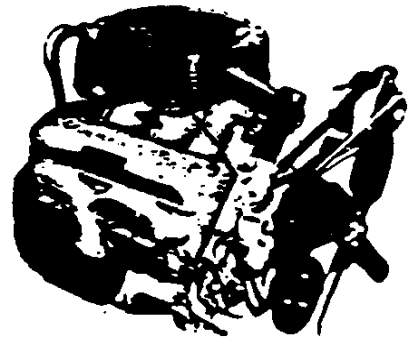
BULBS, FUSES, AND CIRCUIT BREAKERS

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	AGC 30 fuse	In line
Ash tray lamp	AGC 30 fuse	Fuse panel (g)
Auto. trans. position pattern lamp	AGC 3 fuse	Fuse panel (c)
Back up lamps	AGC 3 fuse	Fuse panel (c)
Cigarette lighter	AGC 10 fuse	Fuse panel (d)
Clock	AGC 15 fuse	Fuse panel (b)
Clock lamps	AGC 10 fuse	Fuse panel (d)
Courtesy lamps	AGC 3 fuse	Fuse panel (c)
Defogging	AGC 15 fuse	Fuse panel (b)
Directional signal ind. lamps	AGC 10 fuse	Fuse panel (d)
Dome lamps	AGC 3 fuse	Fuse panel (c)
Fuel gage	AGC 15 fuse	Fuse panel (b)
Folding top motor	AGC 10 fuse	Fuse panel (d)
Generator indicator lamp	40 amp CB	Hinge pillar
Glove compartment lamp	AGC 10 fuse	Fuse panel (d)
Headlamps	AGC 15 fuse	Fuse panel (b)
Headlamps hi-beam ind. lamp	15 amp CB	Light switch
Heater	15 amp CB	Light switch
Heater controls lamps	AGC 10 fuse	Fuse panel (g)
Ignition switch lamp	AGC 3 fuse	Fuse panel (c)
Instrument cluster lamps	AGC 3 fuse	Fuse panel (c)
License plate lamp, rear	AGC 4 fuse	Fuse panel (c)
Luggage compartment lamp	AGC 15 fuse	Fuse panel (b)
Oil pressure indicator lamp	AGC 15 fuse	Fuse panel (b)
Overdrive solenoid	AGC 10 fuse	Fuse panel (d)
Park and turn lamp	AGC 15 fuse	In line
Parking brake alarm indicator lamp	15 amp CB	Light switch
Power seats	AGC 10 fuse	Fuse panel (d)
Power windows	40 amp CB	Hinge pillar
Radio	40 amp CB	Hinge pillar
Radio lamp	AGC 2.5 fuse	Fuse panel (e)
Spot lamp	AGC 2.5 fuse	Fuse panel (e)
	AGC 15 fuse	In line
Inside operated	AGC 15 fuse	In line
Portable	AGC 15 fuse	Fuse panel (b)
Tachometer	AGC 10 fuse	Fuse panel (d)
Tachometer lamp	AGC 3 fuse	Fuse panel (c)
Tail, stop and turn lamps	AGC 15 fuse	Fuse panel (b)
Tailgate motor	AGC 15 fuse	Fuse panel (b)
Temperature gage	40 amp CB	Hinge pillar
Temperature indicator lamps	AGC 10 fuse	Fuse panel (d)
Traffic hazard indicator lamp	AGC 10 fuse	Fuse panel (d)
Under hood lamp	AGC 15 fuse	Fuse panel (b)
Windshield wiper, two-speed	SAE 4 fuse	In line
	SAE 20 fuse	Fuse panel (f)
	14 amp CB	Switch

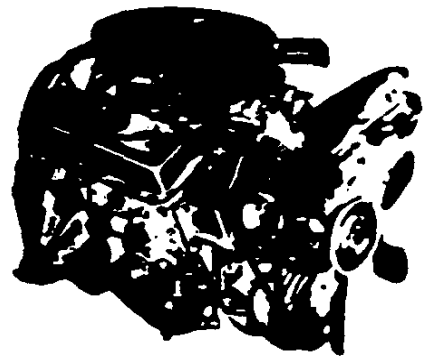
* Lower suffix indicates same circuit



POWER TRAINS



POWER TEAM COMBINATIONS	2
ENGINE DATA AND RATINGS	4
ENGINE SPEED AND PISTON TRAVEL	5
VEHICLE PERFORMANCE FACTORS	6
ENGINE OUTPUT CURVES	7
PRINCIPAL COMPONENTS	9
FUEL SYSTEM	15
EXHAUST AND VENTILATION SYSTEM	16
LUBRICATION SYSTEM	17
COOLING SYSTEM	18
ELECTRICAL SYSTEM	19
CLUTCHES	21
THREE AND FOUR SPEED TRANSMISSIONS	22
OVERDRIVE UNIT	23
POWERGLIDE	24
TURBO HYDRA-MATIC	26



POWER TEAM COMBINATIONS

● AXLE RATIO**

ENGINE	EQUIPMENT	TRANSMISSION	General Purpose Standard	Special Purpose or Maintain	Performance	High Performance	Air Conditioning #
250 CUBIC INCH L-4 TURBO-THRIFT 250 155 HP STANDARD	SINGLE BARREL CARBURETOR HYDRAULIC LIFTERS	3-SPEED & PWR/GLIDE	3.08:1	3.55:1	3.96:1		3.36:1
		SEDANS & COUPES	3.08:1	3.55:1		3.36:1	
		CONVERTIBLE	3.55:1			3.55:1	
		STATION WAGONS	3.70:1			3.70:1	
283 CUBIC INCH V-8 TURBO-FIRE 283 195 HP STANDARD	3-BARREL CARBURETOR HYDRAULIC LIFTERS	3-SPEED & PWR/GLIDE	3.08:1	3.55:1	3.96:1		3.36:1
		19400 & 19400 SEDANS	3.08:1	3.55:1		3.36:1	
		ALL OTHER MODELS	3.08:1	3.55:1		3.36:1	
		4-SPEED (3.11:1 low)	3.08:1	3.55:1		3.36:1	
283 CUBIC INCH V-8 TURBO-FIRE 283 220 HP RPO L77	4-BARREL CARBURETOR HYDRAULIC LIFTERS	3-SPEED & PWR/GLIDE	3.08:1	3.55:1	3.96:1		3.36:1
		19400 & 19400 SEDANS	3.08:1	3.55:1		3.36:1	
		ALL OTHER MODELS	3.08:1	3.55:1		3.36:1	
		4-SPEED (3.11:1 low)	3.08:1	3.55:1		3.36:1	
327 CUBIC INCH V-8 TURBO-FIRE 327 275 HP RPO L30	4-BARREL CARBURETOR HYDRAULIC LIFTERS	3-SPEED & 4-SPEED	3.36:1				3.36:1
		ALL EXC. STA. WAG.	3.31:1			3.31:1	
		STATION WAGONS	3.08:1			3.36:1	
		POWERGLIDE	3.07:1			3.31:1	
396 CUBIC INCH V-8 TURBO-JET 396 325 HP RPO L35	4-BARREL CARBURETOR HYDRAULIC LIFTERS	HEAVY DUTY 3-SPEED	3.31:1				3.31:1
		4-SPEED (2.52:1 low)	3.31:1		3.31:1	3.31:1	
		POWERGLIDE	3.07:1		3.07:1	3.07:1	
		TURBO HYDRA-MATIC	2.75:1		2.75:1	3.07:1	
437 CUBIC INCH V-8 TURBO-JET 437 390 HP RPO L36	4-BARREL CARBURETOR HIGH LIFT CAM HYDRAULIC LIFTERS	HEAVY DUTY 3-SPEED	3.31:1				3.31:1
		4-SPEED (2.52:1 low)	3.31:1		3.07:1	3.31:1	
		TURBO HYDRA-MATIC	2.75:1		2.75:1	3.07:1	
437 CUBIC INCH V-8 TURBO-JET 437 425 HP RPO L72	LARGE 4-BARREL CARBURETOR SPECIAL CAMSHAFT MECH. LIFTERS	HEAVY DUTY 3-SPEED	3.31:1				3.31:1
		4-SPEED (2.52:1 low)	3.31:1		3.55:1	4.10:1*	
			3.31:1		3.75:1	4.56:1*	
		4-SPEED (2.20:1 low)	3.31:1		3.75:1	4.88:1*	

- * - Available as posttraction axle only.
- ** - Posttraction axle ratios available in combinations shown.
- # - Refer to GENERAL section page 11 for additional information.

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBU-RECTION	TRANS-MISSION	TOTAL GEAR REDUCTION*					AXLE RATIO	MAXIMUM AXLE TORQUE LOW GEAR (LB.-FT.)	
			1st	2nd	3rd	4th	Rev			
155 HP Six Cyl Turbo-Thrift	Single Barrel	3-Speed	8.79	5.17	3.08		9.07	3.08:1	1641	
		Over-drive	Out	10.54	6.22	3.70		10.92	3.70:1	1972
			In	7.40	4.37	2.59		7.62	3.70:1	1384
195 HP V-8 Turbo-Fire	2-Barrel	3-Speed	8.79	5.17	3.08		9.07	3.08:1	1828	
		Over-drive	Out	10.54	6.22	3.70		10.92	3.70:1	2196
			In	7.40	4.37	2.59		7.62	3.70:1	1341
		4-Speed	10.45	7.39	4.64	3.36	10.45	3.36:1	2176	
220 HP V-8 Turbo-Fire RPO L77	4-Barrel	3-Speed	8.79	5.17	3.08		9.07	3.08:1	1940	
		Over-drive	Out	10.54	6.22	3.70		10.92	3.70:1	2330
			In	7.40	4.37	2.59		7.62	3.70:1	1635
		4-Speed	10.45	7.39	4.64	3.36	10.45	3.36:1	2309	
275 HP V-8 Turbo-Fire RPO L30	4-Barrel	3-Speed	8.53	5.04	3.36		8.84	3.36:1	2249	
		4-Speed	8.53	6.08	4.44	3.36	8.53	3.36:1	2249	
325 HP V-8 Turbo-Jet RPO L33	4-Barrel	3-Speed H.D.	7.98	5.20	3.31		7.98	3.31:1	2441	
		4-Speed	8.34	6.22	4.63	3.31	8.57	3.31:1	2552	
390 HP V-8 Turbo-Jet RPO L36	4-Barrel	3-Speed H.D.	7.98	5.20	3.31		7.98	3.31:1		
		4-Speed	8.34	6.22	4.63	3.31	8.57	3.31:1		
425 HP V-8 Turbo-Jet RPO L72	4-Barrel Spec. Cam.	3-Speed H.D.	7.98	5.20	3.31		7.98	3.31:1		
		4-Speed (2.52:1)	8.34	6.22	4.63	3.31	8.57	3.31:1		
		4-Speed (2.20:1)	7.28	5.43	4.20	3.31	7.48	3.31:1		

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
155 HP Six Cyl Turbo-Thrift	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 5.61:1	
195 HP V-8 Turbo-Fire	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 5.61:1	
220 HP V-8 Turbo-Fire RPO L77	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 5.61:1	
275 HP V-8 Turbo-Fire RPO L30	Powerglide	Drive	11.40:1 - 3.08:1	3.08:1
		Low & Reverse	11.40:1 - 5.42:1	
325 HP V-8 Turbo-Jet RPO L33	Powerglide	Drive	11.36:1 - 3.07:1	3.07:1
		Low & Reverse	11.36:1 - 5.40:1	
325 HP V-8 Turbo-Jet RPO L35	Turbo Hydra-Matic	Drive	14.22:1 - 2.73:1	2.73:1
		Low	14.22:1 - 6.77:1	
		Second	8.49:1 - 4.04:1	
		Reverse	11.93:1 - 5.68:1	
390 HP V-8 Turbo-Jet RPO L36	Turbo Hydra-Matic	Drive	14.22:1 - 2.73:1	2.73:1
		Low	14.22:1 - 6.77:1	
		Second	8.49:1 - 4.04:1	
		Reverse	11.93:1 - 5.68:1	

* - Axle ratio x transmission ratio.

† - Gear reduction x maximum net torque x efficiency factor (0.90 in drive; 0.85 all others).

ENGINE DATA AND RATINGS

● GENERAL DATA

Engine Type	L-6 OHV			V-8 OHV			
Piston Displacement (Cu. In.)	250	283	327	396	427		
Availability	Standard	L77	L30	L35	L36	L72	
Number of Cylinders	Six			Eight			
Bore and Stroke (nominal)	3.875x3.53	3.875x3.60	4.00x3.25	4.094x3.76	4.251 x 3.76		
Compression Ratio	8.5:1	9.25:1	10.25:1	10.25:1	11.0:1		
Taxable (SAE) Horsepower	26.0	48.0	51.2	53.6	57.8		
Firing Order	1-5-3-6-2-4			1-8-4-3-6-5-7-2			
Idleing Speed	3-Speed and/or 4-Speed (In Neutral)	500			550	800	
	Overdrive (In Neutral)	500					
	Powerglide and/or Hydra-Matic* (In Drive)	500	500		550		
Compression Press. (PSI) @ Cranking Speed, Engine Hd:	140	150		160	170		
Power Plant Mountings	Front	Two; combination compression and shear type					
	Rear	One; full shear type					
Measurements	Fan to rear of engine block	24.96	30.14	30.64	32.59	32.59	32.30
	Top of air cleaner to bottom of oil pan	25.67	29.37	29.96	29.73	29.73	29.89
	Width - including generator	28.57	28.92	28.92	30.71	30.71	30.57

* Turbo Hydra-Matic available with RPO-L35 and L-36 only.
Powerglide not available with RPO L-36 and L-72

● ADVERTISED ENGINE RATING

Engine Designation	L-6, 135 HP Turbo-Thrift 250 Cu. In.	V-8, 195 HP Turbo-Fire 283 Cu. In.	V-8, 230 HP Turbo-Fire 283 Cu. In.	V-8, 275 HP Turbo-Fire 327 Cu. In.	V-8, 325 HP Turbo-Jet 396 Cu. In.	V-8, 390HP Turbo-Jet 427 Cu. In.	V-8, 425HP Turbo-Jet 427 Cu. In.
Availability	Standard	Standard	RPO - L77	RPO - L30	RPO - L35	RPO - L36	RPO - L72
Carburetor	Single Barrel	Two Barrel	Four Barrel	Four Barrel	Four Barrel	Four Barrel	Four Barrel
Brake HP @ RPM	Gross	135 @ 4200	195 @ 4800	230 @ 4800	275 @ 4800	325 @ 4800	390 @ 5200
	Net	125 @ 3800	150 @ 4400	185 @ 4800	210 @ 4400	245 @ 4400	425 @ 5600
Torque @ RPM (lb.-ft.)	Gross	235 @ 1600	285 @ 2400	295 @ 3200	355 @ 3200	410 @ 3200	460 @ 3600
	Net	230 @ 1600	245 @ 2400	260 @ 2800	310 @ 2800	360 @ 2800	

ENGINE SPEED AND PISTON TRAVEL

●250 CUBIC INCH L-6 ENGINE

Transmission	3-Speed	3-Speed with Overdrive		Powerglide
		OD Locked Out	OD Locked In	
Rear Axle Ratio	3.08:1 (b)	3.70:1		3.08:1 (b)
Tire Size	7.75 x 14-4PR (a)			
Crankshaft Revolutions per Mile	2402.4	2886.0	2020.0	2402.4
Crankshaft RPM @ 1 MPH	Low	114.1	137.1	96.0
	Second	67.3	80.8	56.6
	Third	40.0	48.1	33.7
	Fourth	118.1	141.9	99.3
	Reverse	1413.4	1697.9	1188.4
Piston Travel (ft/mile)				

(a) 8.55 x 14-4PR standard on Station Wagons

(b) 3.36:1 on Convertibles and 3.55:1 on Station Wagons.

283 CUBIC INCH V-8 ENGINE

Transmission	3-Speed	3-Speed with Overdrive		4-Speed	Powerglide
		Locked Out	Locked In		
Rear Axle Ratio	3.08:1 (b)	3.70:1		3.08:1	3.08:1 (b)
Tire Size	7.75 x 14-4PR (a)				
Crankshaft Revolutions per Mile	2402.4	2886.0	2020.0	2402.4	2402.4
Crankshaft RPM @ 1 MPH	Low	114.1	137.1	96.0	124.5
	Second	67.3	80.8	56.6	88.1
	Third	40.0	48.1	33.7	58.9
	Fourth	118.1	141.9	99.3	40.0
	Reverse	118.1	141.9	99.3	124.5
Piston Travel (ft/mile)	1201.2	1443.0	1010.0	1201.2	1201.2

(a) 8.55 x 14-4PR standard on Station Wagons.

(b) 3.36:1 on 16400 & 16800 models and all Station Wagons.

327 CUBIC INCH V-8 ENGINE

Transmission	3-Speed	4-Speed		Powerglide
		3.31:1 (b)	3.07:1 (c)	
Rear Axle Ratio		3.36:1 (b)		3.08:1 (c)
Tire Size	7.75 x 14-4PR (a)			
Crankshaft Revolutions per Mile		2620.8		2402.4
Crankshaft RPM @ 1 MPH	Low	110.9	110.9	70.4
	Second	65.5	78.6	
	Third	43.6	57.7	
	Fourth		43.6	40.0 (direct)
	Reverse	114.9	110.9	70.4
Piston Travel (ft/mile)		1419.6		1297.1

(a) 8.55 x 14-4PR standard on Station Wagons.

(b) 3.31:1 on Station Wagons. (c) 3.07:1 on Station Wagons.

396 CUBIC INCH V-8 ENGINE

Transmission	3-Speed	4-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio		3.31:1	3.07:1	2.73:1
Tire Size	7.75 x 14-4PR (a)			
Crankshaft Revolutions per Mile		2581.8	2394.6	2129.4
Crankshaft RPM @ 1 MPH	Low	108.7	108.7	88.0
	Second	67.3	80.9	52.5
	Third	43.0	52.8	35.5 (direct)
	Fourth		43.0	
	Reverse	108.7	111.4	70.2
Piston Travel (ft/mile)		1617.9	1500.6	1336.4

(a) 8.55 x 14-4PR standard on Station Wagons.

427 CUBIC INCH V-8 ENGINE

Transmission	390 HP - RPO L36			425 HP - RPO L72		
	3-Speed	4-Speed	Turbo Hydra.	3-Speed	4-Spd (M20) / 4-Spd (M21)	
Rear Axle Ratio	3.51:1			2.73:1		
Tire Size	8.25 x 14-4PR (a)					
Crankshaft Revolutions per Mile	2525.5			2083.0		
Crankshaft RPM @ 1 MPH	Low	101.4	106.1	86.1	101.4	106.1
	Second	66.1	79.1	51.4	66.1	79.1
	Third	42.1	61.4	34.7 (direct)	42.1	61.4
	Fourth		42.1	42.1		42.1
	Reverse	101.4	109.0	72.2	101.4	109.0
Piston Travel (ft/mile)	1582.7			1305.3		

(a) 8.55 x 14-4PR standard on Station Wagons.

VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 250 CU.IN. 185 HP	BASE 283 CU.IN. 195 HP	RPO L77 383 CU.IN. 220 HP	RPO L30 327 CU.IN. 275 HP	RPO L35 396 CU.IN. 325 HP	RPO L36 427 CU.IN. 390 HP	RPO L72 437 CU.IN. 425 HP
MODEL	18669	18669	18669	18669	18669	18669	18669

3-SPEED TRANSMISSION

Performance Weight (pounds)	4137	4283	4304	4337	4560	4583	4598
Pounds per Gross Horsepower	27.58	21.96	19.56	15.77	14.03	11.75	10.82
Pounds per Cu. In. Displacement	16.35	15.13	15.31	13.56	11.32	10.73	10.77
Gross HP per Cu. In. Displacement	.600	.689	.777	.841	.821	.913	.985
Power Displacement (cu. ft./mile)	173.78	196.72	196.72	247.98	295.83	312.03	312.03
Displacement Factor (cu. ft./ton mile)	84.01	91.84	91.41	114.38	139.75	136.14	133.72

3-SPEED TRANSMISSION WITH OVERDRIVE

Performance Weight (pounds)	4165	4310	4331				
Pounds per Gross Horsepower	27.60	22.10	19.69				
Pounds per Cu. In. Displacement	16.66	15.23	15.30				
Gross HP per Cu. In. Displacement	.600	.689	.777				
Power Displacement (cu. ft./mile)	Locked Out	208.77	236.32	236.32			
	Locked In	146.12	165.43	165.43			
Displacement Factor (cu. ft./ton mile)	Locked Out	100.27	109.86	109.16			
	Locked In	70.18	76.76	76.41			

4-SPEED TRANSMISSION

Performance Weight (pounds)		4278	4399	4333	4537	4560	4575
Pounds per Gross Horsepower		21.94	19.56	15.76	13.97	11.69	10.76
Pounds per Cu. In. Displacement		15.12	15.19	13.35	11.46	10.68	10.71
Gross HP per Cu. In. Displacement		.689	.777	.841	.821	.913	.985
Power Displacement (cu. ft./mile)		196.72	196.72	247.98	295.83	312.03	312.03
Displacement Factor (cu. ft./ton mile)		91.97	91.54	114.69	130.44	136.86	136.44

TURBO HYDRA-MATIC

Performance Weight (pounds)					4605	4633	
Pounds per Gross Horsepower					14.17	11.88	
Pounds per Cu. In. Displacement					11.63	10.85	
Gross HP per Cu. In. Displacement					.821	.913	
Power Displacement (cu. ft./mile)					243.99	257.35	
Displacement Factor (cu. ft./ton mile)					108.99	111.12	

POWERGLIDE*

Performance Weight (pounds)	4149	4296	4317	4358	4561		
Pounds per Gross Horsepower	27.66	27.03	19.62	15.85	14.03		
Pounds per Cu. In. Displacement	16.60	15.18	15.25	13.33	11.32		
Gross HP per Cu. In. Displacement	.600	.689	.777	.841	.821		
Power Displacement (cu. ft./mile)	173.78	196.72	196.72	237.31	274.38		
Displacement Factor (cu. ft./ton mile)	83.77	91.38	91.16	104.32	130.34		

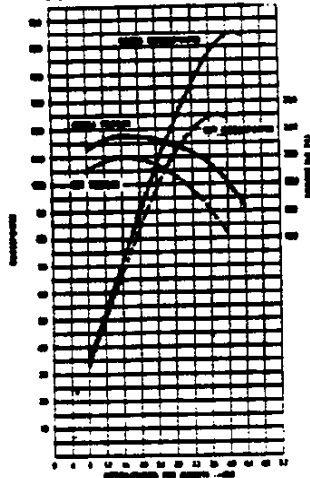
* Data compiled assuming zero slippage in torque converter.

GLOSSARY

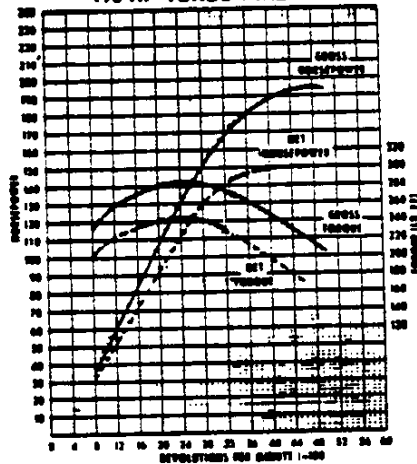
Performance Weight	Curb Weight plus 600 Lb (weight of four 150 lb passengers)
Power Displacement	$\frac{\text{Crankshaft Revs./Mi} \times \text{Piston Displacement}}{2 \times 1728}$
Displacement Factor	$\frac{\text{Power Displacement}}{\text{Performance Wt. (gross)}}$

ENGINE OUTPUT CURVES

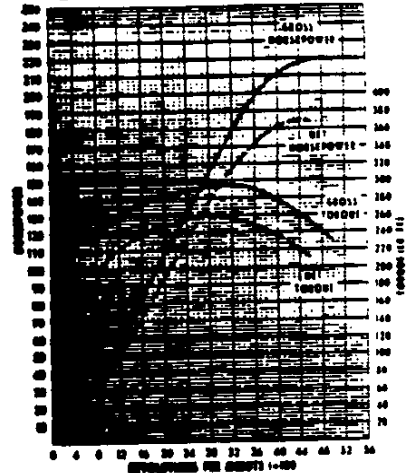
● 155 HP TURBO-THRIFT L-4



195 HP TURBO-FIRE V-8



● 220 HP TURBO-FIRE V-8



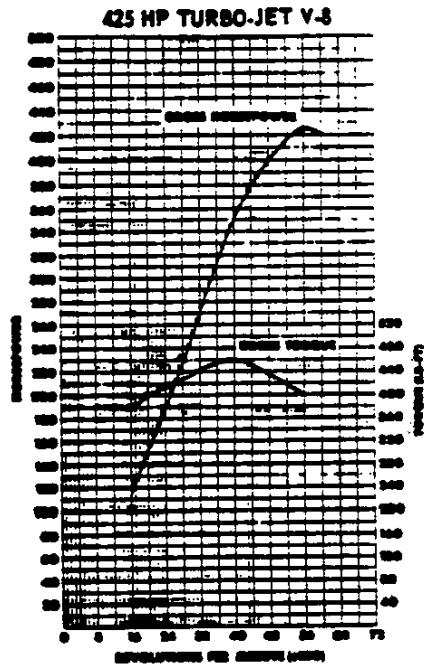
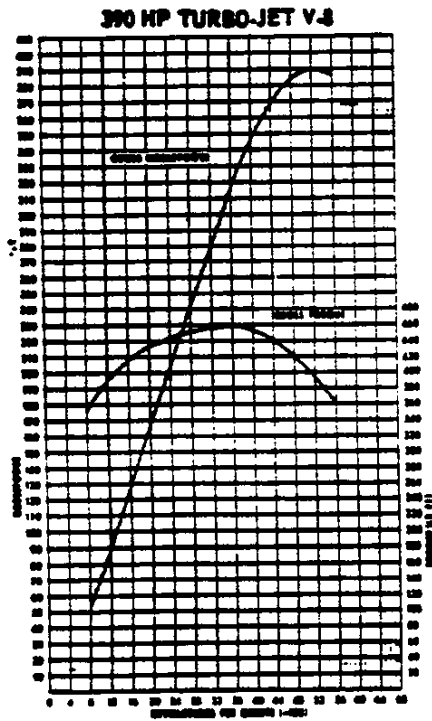
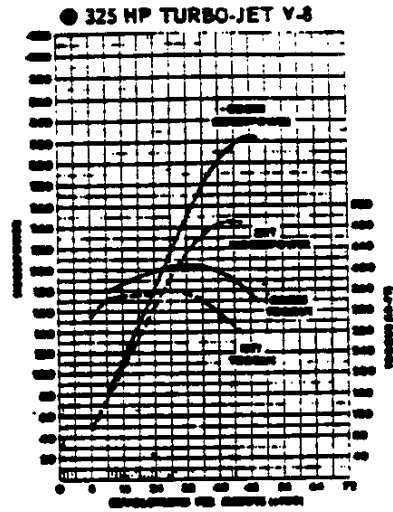
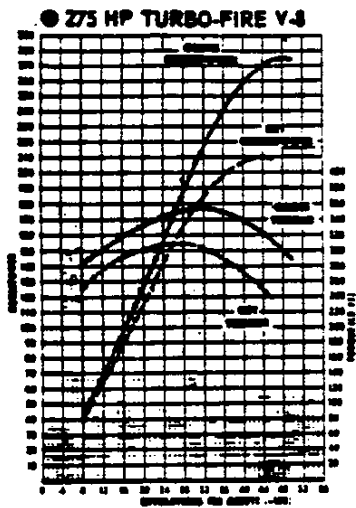
The engine output curves represent full throttle performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60 degrees F.

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system.

no fan, generator not charging, optimum spark advance, and optimum fuel setting.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle, except the generator is not charging.

ENGINE OUTPUT CURVES—Cont'd.



The engine output curves represent full throttle performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60 degrees F.

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system,

no fan, generator not charging, optimum spark advance, and optimum fuel setting.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle, except the generator is not charging.

PRINCIPAL COMPONENTS

CYLINDER BLOCK

Material	Cast alloy iron
Bore diameter	
L6-250 Cu.In.	3.8745-3.8775
V8-283 Cu.In.	3.8745-3.8775
V8-327 Cu.In.	3.9995-4.0025
V8-396 Cu.In.	4.0925-4.0955
V8-427 Cu.In.	4.2495-4.2525
No. of Bulkheads	
L6	7
V8	5
Water Jacket Full length around each cylinder	
Cylinder Numbering Arrangement	
L6	1-2-3-4-5-6
V8	Left Bank 1-3-5-7 Right Bank 2-4-6-8
Bore Spacing (Centerline to Centerline)	
L6-250 Cu.In.	4.4
V8-283 & 327 Cu.In.	4.4
V8-396 & 427 Cu.In.	4.84

CYLINDER HEAD

Material	High chrome cast alloy iron
Bolt No. & Size	
L6-250 Cu.In.	10; .500 dia. 13 threads/in.
V8-283 & 327 Cu.In.	34; .4375 dia. 14 threads/in.
V8-396 & 427 Cu.In.	32; .4375 dia. 14 threads/in.

COMBUSTION CHAMBER VOLUME

(Total chamber volume of assembled engine with piston at top center)	
L6-250 Cu.In.	5.74 Cu.In.
V8-283 Cu.In.	4.39 Cu.In.
V8-327 Cu.In.	4.49 Cu.In.
V8-396 Cu.In.	5.38 Cu.In.
V8-427 Cu.In. (RPO L36)	5.90 Cu.In.
V8-427 Cu.In. (RPO L72)	4.92 Cu.In.

INLET MANIFOLD

Material	Cast alloy iron
V8-427 (RPO L72) Cast aluminum alloy	
Type	
L6	3 port, rectangular section
V8	6 port, double deck
Heat Provision Exhaust gas cross-over at carburetor mounting pad	

EXHAUST MANIFOLD

Material	Cast alloy iron
Type	
L6-250 Cu.In.	4 port, rectangular, center downtake
V8-283 & 327 Cu.In.	Dual, 4 port, center downtake
V8-396 & 427 Cu.In.	Tuned, dual, 4 port, rear downtake
Outlet Diameter	
L6-250 Cu.In.	2.0
V8-283 & 327 Cu.In.	2.0
V8-396 & 427 Cu.In.	2.5

CRANKSHAFT

Material	
L6-250 Cu.In.	Cast nodular iron
V8-283 Cu.In.	Cast nodular iron or forged steel
V8-327, 396 & 427 Cu.In.	Forged steel
Hardened Journals on RPO L72	
End Play	
L6-250 Cu.In. ....	.002-.006
V8-283 & 327 Cu.In. ....	.002-.006
V8-396 & 427 Cu.In. ....	.006-.010
Counter Weights	
L6	12
V8	6
Crank Arm Length	
L6-250 Cu.In.	1.765
V8-283 Cu.In.	1.50
V8-327 Cu.In.	1.625
V8-396 & 427 Cu.In.	1.88
Torsional Damper	
L6-250 Cu.In.	Rubber mounted inertia
V8-283 Cu.In.	None
V8-327 & 427 Cu.In.	Rubber mounted inertia
Timing Gear	
L6	Steel, helical cut
V8	Steel; sprocket & chain
Pulley Pitch Diameter 6.64	

MAIN BEARINGS

Material	
L6 & V8-283	Copper lead alloy or sintered copper nickel backed babbit on steel
V8-327	Premium aluminum except No. 5 upper sintered copper nickel backed babbit
V8-396 & 427	Premium aluminum except No. 5 sintered copper nickel backed babbit
Type Precision removable	
Thrust Against Bearing No. L6 - No.7; V8 - No.5	
Clearance	
L6-250 Cu.In. ....	.0003-.0029
V8-283 Cu.In. (#1-4) .0003-.0029; (#5) .0008-.0034	
V8-327 Cu.In. (#1-4) .0008-.0034; (#5) .0010-.0036	
V8-396 & 427 (RPO L36)	(#1-4) .0006-.0022; (#5) .0013-.0029
V8-427 (RPO L72)	(#1-4) .0013-.0029; (#5) .0017-.0033

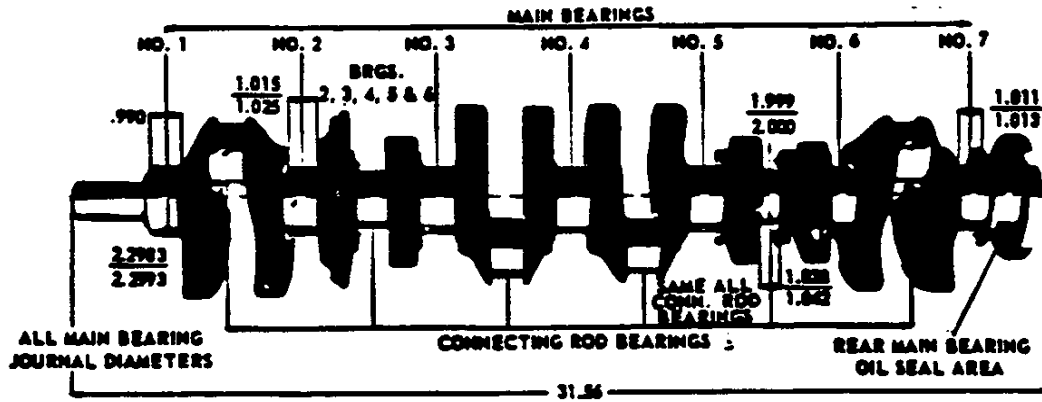
Dimensions

	Theoretical Inner Dia.	Effective Length	Projected Area
L6-250 Cu.In.			
Bearing #1-6	2.3004	.752	1.7299
Bearing #7	2.3004	.760	1.7483
V8-283 Cu.In.			
Bearing #1	2.3008	.752	1.7302
Bearing #2-4	2.3004	.752	1.7299
Bearing #5	2.3004	1.177	2.7076
V8-327 Cu.In.			
Bearing #1	2.3013	.752	1.7306
Bearing #2-4	2.3009	.752	1.7303
Bearing #5	2.3006	1.1824	2.7202
V8-396 & 427 Cu.In. (RPO L36)			
Bearing #1-3	2.7507	.992	2.726"
Bearing #3-4	2.7501	.992	2.7261
Bearing #5	2.7504	1.2525	3.4446
V8-427 Cu.In. (RPO L72)			
Bearing #1-4	2.7508	.992	2.7288
Bearing #5	2.7505	1.2525	3.4446

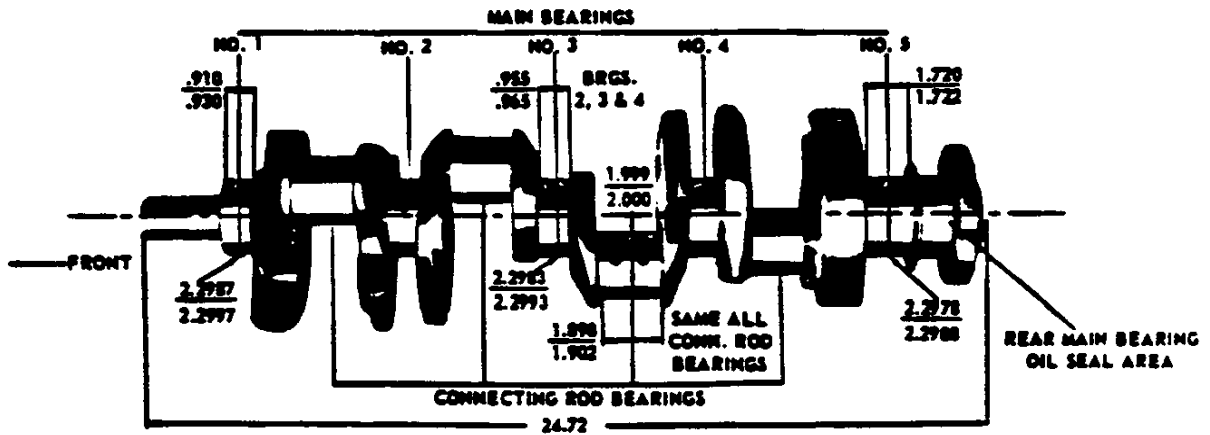
PRINCIPAL COMPONENTS—Cont'd.

CRANKSHAFTS AND BEARINGS

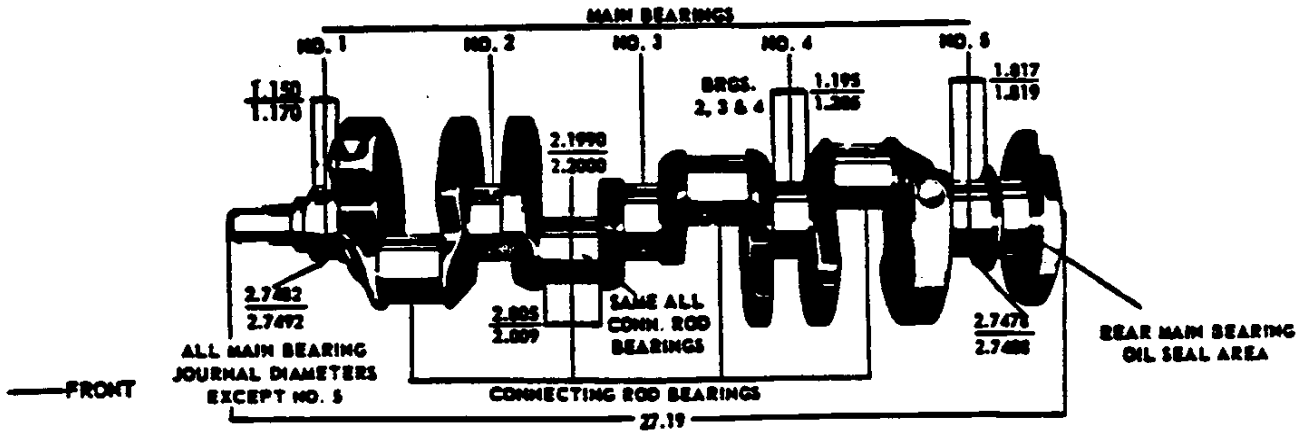
250 CUBIC INCH SIX CYLINDER ENGINE



283 and 327 CUBIC INCH V-8 ENGINES



396 and 427 CUBIC INCH V-8 ENGINES



CAMSHAFT
 Material Cast alloy iron
 Drive
 L6 Gear; bakelite and fabric composition with steel hub
 V8 Sprocket & chain; steel
 ●Lobe Lift
 L63217 Inlet & Exhaust
 V8-283 & 3273658 Inlet & Exhaust
 V8-3962943 Inlet & Exhaust
 V8-427 (RPO L36)3714 Inlet, .2824 Exhaust
 V8-427 (RPO L72)3057 Inlet & Exhaust
 Bearings Steel backed babbit

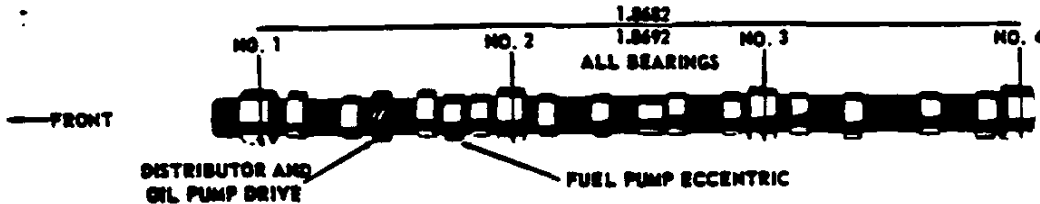
VALVE TRAIN
 Type Individually mounted, overhead rocker arms, push rod actuated
 Lifters Hydraulic RPO L72, - Mechanical
 Push Rods
 Type Hollow steel
 Ends
 L6, V8-283 & 327 Hardened
 V8-396 & 427 Carburized steel inserts
 Rocker Arms
 Material Stamped steel
 Ratio
 L6 1.75:1
 V8-283 & 327 1.50:1
 V8-396 & 427 1.70:1

VALVE SPRINGS

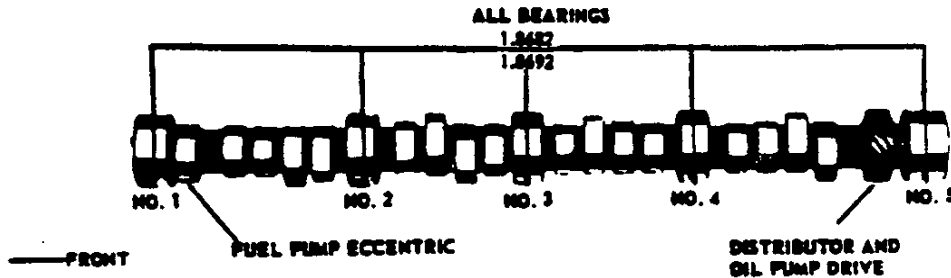
Diameter (I.D.)
 L6872-.888
 V8-283872-.888
 V8-327872-.888
 V8-396 & 427 1.082-1.098
 Installed Length (in. @ ID)
 Valves Closed
 L6 1.66 @ 56-64
 V8-283 1.66 @ 78-86
 V8-327 1.66 @ 78-86
 V8-396 1.88 @ 84-96
 V8-427 1.88 @ 94-106
 ●Valves Opened
 L6 1.27 @ 180-192
 V8-283 1.26 @ 170-180
 V8-327 1.26 @ 170-180
 V8-396 1.48 @ 205-225
 V8-427 1.38 @ 303-327
 Free Length
 L6 1.90
 V8-283 2.08
 V8-327 2.08
 V8-396 2.11
 V8-427 2.09
 Valve Spring Damper
 L6 None
 V8-283 Flat steel, 4 coils
 V8-327 Flat steel, 4 coils
 V8-396 & 427 Flat steel, 3.62 coils

CAMSHAFT AND BEARINGS

250 CUBIC INCH L-6 ENGINE



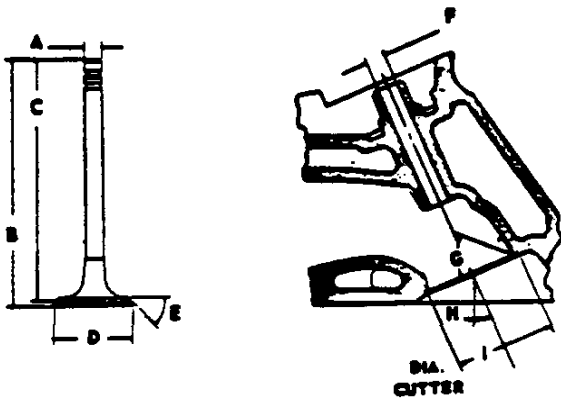
283 and 327 CUBIC INCH V-8 ENGINES



PRINCIPAL COMPONENTS—Cont'd.

VALVES - INLET

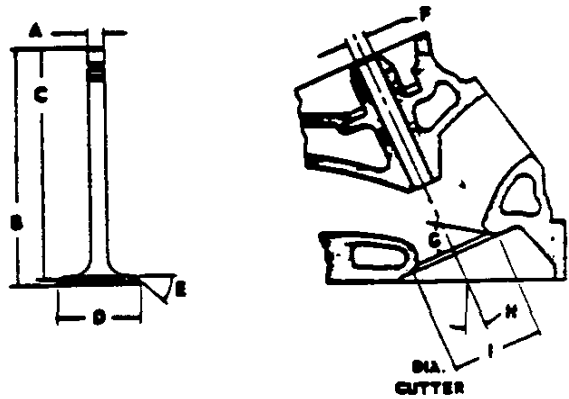
Material Alloy steel
 Coating
 L6, V8-283 & 327 Cu.In. None
 V8-396 & 427 Cu.In. Face & head aluminized;
 chrome flash stem on RPO L72
 Valve Guide Inserts (V8-396 & 427) Cast alloy iron



A - Stem Diameter		
L6, V8-283 & 327 .....	.3410-.3417
V8-396 & 427 .....	.3715-.3723
B - Overall Length		
L6, V8-283	4.902-4.922	
V8-327	4.870-4.889	
V8-396 (RPO L35) & V8-427 (RPO L36) ...	5.215-5.235	
V8-427 (RPO L72)	5.204-5.224	
C - Cage Length		
L6, V8-283 & 327	4.785-4.795	
V8-396 & 427	5.115-5.125	
D - Overall Head Diameter		
L6, V8-283	1.715-1.725	
V8-327	1.935-1.945	
V8-396 (RPO L35) & V8-427 (RPO L36) ...	2.060-2.070	
V8-427 (RPO L72)	2.185-2.195	
E - Angle of Face		45°
F - Guide Diameter		
L6, V8-283 & 327 .....	.3427-.3437
V8-396 & 427 .....	.3732-.3742
G - Angle of Seat		46°
H - Valve Angle		
L6	9°	
V8-283 & 327	25°	
V8-396 & 427	4°	
I - Valve Seat (Cutter) Diameter		
L6, V8-283	1.770-1.790	
V8-327	1.990-2.010	
V8-396 & 427	2.380	

VALVES - EXHAUST

Material High alloy steel
 Coating
 L6-230 Cu.In. None
 V8-283 & 327 Cu.In. Aluminized face
 V8-396 & 427 Cu.In. Face & head aluminized;
 chrome flash stem on RPO L72
 Valve Guide Inserts (V8-396 & 427) Cast alloy iron



A - Stem Diameter		
L6, V8-283 & 327 .....	.3410-.3417
V8-396 & 427 .....	.3715-.3720
B - Overall Length		
L6	4.913-4.933	
V8-283 & 327	4.913-4.933	
V8-396 & 427	5.345-5.365	
C - Cage Length		
L6	4.781-4.791	
V8-283 & 327	4.781-4.791	
V8-396 & 427	5.235-5.245	
D - Overall Head Diameter		
L6	1.495-1.505	
V8-283 & 327	1.495-1.505	
V8-396 & 427	1.715-1.725	
E - Angle of Face		45°
F - Guide Diameter		
L6 .....	.3427-.3437
V8-283 & 327 .....	.3427-.3437
V8-396 & 427 .....	.3732-.3742
G - Angle of Seat		46°
H - Valve Angle		
L6	9°	
V8-283 & 327	25°	
V8-396 & 427	4°	
I - Valve Seat (Cutter) Diameter		
L6	1.550-1.570	
V8-283 & 327	1.550-1.570	
V8-396 & 427	2.120	

VALVE LIFT

L6	3880 Inlet & Exhaust
V8-283 & 327	3987 Inlet & Exhaust
V8-396	3983 Inlet & Exhaust
V8-427 (RPO L36)	4614 Inlet; 4800 Exhaust
V8-427 (RPO L72)	5197 Inlet & Exhaust

VALVE TIMING (Crankshaft degrees)

L6 - 250 Cu. In.	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	16°	62°
Closes - ABC	48°	94°
Duration	244°	336°
Exhaust Valve (Zero lash)		
Opens - BBC	46°30'	92°30'
Closes - ATC	17°30'	63°30'
Duration	244°	336°

V8-283 & 327 Cu. In.	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	12°30'	32°30'
Closes - ABC	57°30'	67°30'
Duration	230°	300°
Exhaust Valve (Zero lash)		
Opens - BBC	54°30'	74°30'
Closes - ATC	15°30'	45°30'
Duration	230°	300°

V8-396 Cu. In.	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	38°	40°
Closes - ABC	78°	102°
Duration	286°	322°
Exhaust Valve (Zero lash)		
Opens - BBC	75°	87°
Closes - ATC	31°	33°
Duration	286°	322°

● V8-427 Cu. In. - RPO L36	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	40°	56°
Closes - ABC	80°	114°
Duration	300°	350°
Exhaust Valve (Zero lash)		
Opens - BBC	85°	110°
Closes - ATC	32°	62°
Duration	300°	352°

● V8-427 Cu. In. - RPO L72	Including Ramps
Inlet Valve (opens with .024 lash)	
Opens - BTC	54°
Closes - ABC	102°
Duration	336°
Exhaust Valve (closes with .028 lash)	
Opens - BBC	102°
Closes - ATC	54°
Duration	336°

PISTONS

Material

L6	Cast aluminum alloy
V8-283 & 327	Cast aluminum alloy
V8-396 & 427 (RPO L36)	Cast aluminum alloy
V8-427 (RPO L72)	Aluminum impact extruded

Head Type

L6, V8-283 & 327	Flat, notched
V8-396 & 427	Domed head, valve cutout

Skirt Type

V8-427 (RPO L72)	Slipper
------------------	---------

Top Land Clearance

L6	.0345-.0435
V8-283	.0345-.0435
V8-327	.0365-.0455
V8-396 & 427 (RPO L36)	.0305-.0375
V8-427 (RPO L72)	.0265-.0335

Skirt Clearance

L6, V8-283 & 327	.0005-.0011
V8-396	.0007-.0013
V8-427 (RPO L36)	.0009-.0015
V8-427 (RPO L72)	.0037-.0043

Compression Ring Groove Depth

L6, V8-283	.2153-.2218
V8-327	.2217-.2283
V8-396	.2253-.2318
V8-427	.2348-.2413

Oil Ring Groove Depth

L6, V8-283	.2093-.2158
V8-327	.2038-.2103
V8-396	.2098-.2168
V8-427 (RPO L36)	.2183-.2248
V8-427 (RPO L72)	.2133-.2148

Pin Bore Offset

V8-427 (RPO L72) - On center

Compression Height

L6	1.658-1.662
V8-283	1.799-1.801
V8-327	1.874-1.876
V8-396	1.953-1.957
V8-427 (RPO L36)	1.908-1.912
V8-427 (RPO L72)	1.768-1.772

PISTON PINS

Material ----- Chromium steel

Length

L6, V8-283 & 327	2.990-3.010
V8-396 & 427	2.930-2.950

Diameter

L6, V8-283 & 327	.9270-.9273
V8-396 & 427	.9895-.9898

Clearance in Piston

L6, V8-283 & 327	.00015-.00023
V8-396	.00025-.00035
V8-427 (RPO L36)	.00025-.00035
V8-427 (RPO L72)	.00030-.00040

Pin Mounting ----- Locked in rod by shrink fit

PRINCIPAL COMPONENTS—Cont'd.

● COMPRESSION RINGS - UPPER

Material	Cast alloy iron
Type ---	Inside bevel (bottom of ring 30 degrees to piston vertical axis) - No inside bevel on L6 & V8-306 & 427
Face	Tapered
V8-283 & 327	
L6 & V8-306 & 427	Barrel
Coating	
L6, V8-283 & 327	Chrome plate
V8-306 & 427	Molybdenum inlay
Width	
L6 .....	.0628 - .0633
V8-283 & 327 .....	.0775-.0780
V8-306 & 427 (RPO L36) .....	.0770-.0775
V8-427 (RPO L72) .....	.0770-.0775
Wall Thickness	
L6 .....	.184-.194
V8-283 .....	.179-.194
V8-327 .....	.190-.200
V8-306 .....	.194-.204
V8-427 .....	.202-.212
Gap	
L6 & V8-283 .....	.010-.020
V8-327 .....	.013-.023
V8-306 & 427 .....	.010-.020

COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Type	Inside bevel (top of ring 30 degrees to piston vertical axis for L6 & V8-283; 50 degrees for V8-327 & 306; 28-32 degrees for V8-427).
Face	Tapered
Coating	Wear resistant
	V8-427 (RPO L72) - Chrome plate
Width	
L6 .....	.0615-.0625
V8-283 .....	.0770-.0780
V8-327, 306 & 427 (RPO L36) .....	.0770-.0775
V8-427 (RPO L72) .....	.0770-.0775
Wall Thickness	
L6 & V8-283 .....	.184-.194
V8-327 .....	.164-.170
V8-306 .....	.194-.204
V8-427 .....	.202-.212
Gap	
L6 & V8-283 .....	.010-.020
V8-327 .....	.013-.023
V8-306 & 427 .....	.010-.020
Expander (used with V8-327 only)	
Material	Steel
Width .....	.068-.074
Wall Thickness .....	.0180

OIL CONTROL RINGS

Type	Multi-piece (Two rails and one spacer)
Material	
Rails	Steel
Spacer	Alloy steel
Width (assembled)	
L6 .....	.1840-.1880
V8-283 & 327 .....	.1840-.1880
V8-306 & 427 .....	.1830-.1880
Wall Thickness	
L6 .....	.152-.158
V8-283 & 327 .....	.150-.156
V8-306 & 427 .....	.137-.143
Gap	
L6 .....	.015-.025
V8-283 & 327 .....	.015-.055
V8-306 & 427 .....	.010-.030
Rail Coatings	Chrome plated

CONNECTING RODS

Material	Drop forged steel
V8-427 (RPO L72)	High alloy steel
Length (center to center)	
L6	5.699-5.701
V8-283 & 327	5.699-5.701
V8-306 & 427	6.134-6.136

CONNECTING ROD BEARINGS

Material	
L6 & V8-283	Copper lead alloy or sintered copper nickel backed babbitt on steel
V8-327	Premium aluminum
V8-306 & 427	Premium aluminum
Type	Precision removable
Clearance	
L6 .....	.0007-.0027
V8-283 & 327 .....	.0007-.0027
V8-306 & 427 (RPO L36) .....	.0009-.0029
V8-427 (RPO L72) .....	.0014-.0030
Theoretical I.D.	
L6 & V8-283	2.0016
V8-327	2.0017
V8-306 & 427 (RPO L36)	2.2012
V8-306 (RPO L72)	2.2017
Effective Length	
L6 .....	.80"
V8-283 & 327 .....	.80"
V8-306 & 427 .....	.85"
End Play	
L6 .....	.009-.013
V8-283 & 327 .....	.009-.013
V8-306 & 427 .....	.016-.020

FUEL SYSTEM

FUEL TANK

Capacity (Gal)	
Sedans & Coupes	20 (approximately)
Station Wagons	24 (approximately)
Fuel Tank Location	
Sedans & Coupes	Behind rear axle
Station Wagons	In left quarter panel
Filler Location	
Sedans & Coupes	Behind hinged rear license plate
Station Wagons	Left rear quarter panel

FUEL FILTERS, DUAL

In Fuel Tank	Mesh strainer
In Carburetor Inlet	Sintered bronze

FUEL PUMP ASSEMBLY

Type	Mechanical; diaphragm
Drive	Camshaft, eccentric
Location	Right side front of engine
Pressure Range (At carburetor)	
L6	4.50-6.00 PSI
V8-283 & 327	8.25-6.50 PSI
V8-396 & 427 (RPO L36)	5.00-6.50 PSI
V8-427 (RPO L72)	7.25-8.50 PSI

AIR CLEANER

Type	
L6	Cylindrical, single air horn
V8-283 & 327	Cylindrical, single air horn
V8-396	Cylindrical, single air horn
V8-427 (RPO L36)	Cylindrical, single air horn
V8-427 (RPO L72)	Cylindrical, dual air horns
Diameter	
L6	15.00
V8-283	15.20
V8-327, 396 & 427	16.78
Filter Element	
L6	Oil-wetted polyurethane
V8	Oil wetted paper

CARBURETORS

Make and Type	
L6	Rochester, single barrel, downdraft
V8-283 (Std)	Rochester, 2-barrel, downdraft
V8-283 (RPO L77)	Rochester, 4-barrel, downdraft
V8-327	Carter or Holley, 4-bbl. downdraft or Rochester, Quadrajet
V8-396	Holley, 4-barrel, downdraft or Rochester, Quadrajet
V8-427 (RPO L36)	Rochester, Quadrajet
V8-427 (RPO L72)	Holley, 4-bbl. downdraft

SAE Flange Size

L6	1.50
V8-283	1.25
V8-327 & 396 & 427	1.50

Throttle Bore

L6	1.56
V8-283 (Std)	1.44
V8-283 (RPO L77)	
Primary & Secondary	1.44
V8-327	
Holley & Carter	
Primary & Secondary	1.56
Rochester	
Primary	1.39
Secondary	2.25
V8-396	
Holley, Primary & Secondary	1.56
Rochester, Primary	1.39
Secondary	2.25

V8-427 Cu.in. (RPO L36)

Primary	1.39
Secondary	2.25

V8-427 Cu.in. (RPO L72)

Primary & Secondary	1.686
Secondary Throttle Actuation(4-bbl. carb) --- By linkage, approximately when primary valves are opened half way between closed and open	

Venturi Diameter

L6	1.34
V8-283 (Std)	1.00
V8-283 (RPO L77)	
Primary	1.375
Secondary	1.4375

V8-327 Cu.in.

Primary	
Carter	1.25
Holley	1.188
Rochester	1.00
Secondary	
Carter	Air valve
Holley	1.311
Rochester	Air valve

V8-396

Primary	
Holley	1.25
Rochester	1.50
Secondary	
Holley	1.311
Rochester	Air Valve

V8-427 Cu.in. (RPO L36)

Primary	1.375
Secondary	1.4375

V8-427 Cu.in. (RPO L72)

Primary	1.375
Secondary	1.4375

CHOKE

Type	Automatic
------	-----------

EXHAUST AND VENTILATION SYSTEM

TYPE

L6	Single
V8-383 & 327	Single with crossover pipes
V8-283 (RPO L77)	Dual
V8-396	Single with crossover pipes
V8-427 (RPO L36)	Dual with resonators
V8-427 (RPO L72)	Dual

●MUFFLERS

Type Oval, reverse flow
Construction Heads and body joined by rolled
lock seam construction

Head

L6 & V8-383	.048 sheet steel, aluminized
V8-327 & 396	.060 sheet steel, aluminized
V8-283 (RPO L77) & 427	
Left hand	.060 sheet steel, aluminized
Right hand	.060 stainless steel

Shell

L6	.036 sheet steel, aluminized
V8-283	.036 sheet steel, aluminized
V8-327 & 396	.036 sheet steel, aluminized
V8-283 (RPO L77) & 427	
Left hand	.036 sheet steel, aluminized
Right hand	.036 stainless steel

Wrap030 indented asbestos sheet

Cover018 sheet steel, aluminized

Baffles

L6 & V8-283	4; .036 sheet steel, aluminized
V8-327 & 396	4; .036 sheet steel, aluminized
V8-283 (RPO L77) & 427	
Left hand	4; .036 sheet steel, aluminized
Right hand	4; .036 stainless steel

Length, Body

L6	17.00
V8	21.25
Width (I.D.)	9.25
Height (I.D.)	5.00

●EXHAUST CROSSOVER PIPE

Dimensions (O.D.)	
V8-383 & 327	2.00
V8-396	2.00
Wall Thickness	
V8-383 & 327	.073-.091 laminated
V8-396	.082-.096 laminated

EXHAUST PIPE

Dimensions (O.D.)	
L6 & V8-383	2.00
V8-283 (RPO L77)	2.50
V8-327, 396 & 427	2.50
Wall Thickness	
L6	.057-.071
V8	.073-.091 laminated

RESONATORS V8-283 (RPO L77) 327 & 396 & 427 (RPO L36)

Type	Straight through
Cover	.036 stainless steel
Heads	.048 stainless steel

●TAIL PIPES

Dimensions (O.D.)	
L6 & V8-383	1.875
V8-283 (RPO L77)	2.00
V8-427 (RPO L36)	2.00
V8-427 (RPO L72)	2.25
Wall Thickness	.062-.076

ENGINE VENTILATION

LA, V8-383, 327, 396 & 427	Positive-type;
Fresh air metered into the engine through the oil filler cap, air breather cap on RPO L35 & L36. Unburned fumes drawn into the induction system, controlled by a regulating valve, and burned in the combustion chamber and expelled through the exhaust system.	
V8-427 (RPO L72)	Closed-positive type;
Fumes drawn into induction system from crankcase via hose connected to left side rocker cover and base of carburetor and metering orifice at base of carburetor. Fresh air is picked up from carburetor air cleaner and ducted to right side rocker cover.	

●AIR INJECTION REACTOR

(California vehicles only)

Injection System	
Point of Entry	Exhaust Ports
Check Valve	Pressure (plate type)
Back Fire Protection	Vacuum actuated anti-backfire valve

Air Injection Pump

Type	Semi-articulated vane type
Drive	Crankshaft Pulley
Drive Ratio	1.25:1
Relief Valve	Pressure (plate type)

LUBRICATION SYSTEM

GENERAL

Type	Controlled full pressure
Main Bearings	Pressure
Connecting Rods	Pressure
Piston Pins	Splash
Cylinder Walls	
L6	Main and conn. rod bearing throwoff
V8	Pressure, jet cross sprayed
Camshaft Bearings	Pressure
Valve Lifters	Pressure
Rocker Arms	Pressure
Timing Gears	
L6	Nozzle sprayed
V8	Centrifugally oiled from front camshaft bearing

Oil Pressure Sensing Unit

Type	Electric
Action	Opens or closes circuit @ 2 to 6 PSI

Oil Filler

Cap	
L6, V8-283 & 327	Oil wetted crimped aluminum breather
V8-396 & 427	Positive seal
Location	
L6	Forward end of rocker cover
V8-283 & 327	Left front of intake manifold
V8-396 & 427	Top center of right rocker cover

CRANKCASE CAPACITIES (Quarts)

Refill	
L6, V8-283 & 327	4
V8-396 & 427	4
Refill with Filter Change	
L6, V8-283 & 327	5
V8-396 & 427	5

LUBRICANT GRADES AND TEMPERATURES

32° F and Above ----	SAE 30W, SAE 30 or SAE 10W-30
0° F and Above	SAE 10W or SAE 10W-30
Below 0° F	SAE 5W or SAE 5W-20
Alternate	SAE 5W-30 can be used for 5W, 5W-30 or 10W-30

OIL PUMP

Type	Gear
Regulator Valve	Opens between 40 - 45 lbs
Oil Pressure	
L6, V8-283 & 327	30-45 PSI @ 1500 RPM
V8-396 & 427	30-75 PSI @ 2000 RPM
Intake Type	Fixed pickup with screen
Capacity (GPM @ Engine RPM)	
L6	4.3 @ 2000
V8-283 & 327	4.3 @ 2000
V8-396 & 427	6.0 @ 2000

OIL FILTER

Type	Full flow, throwaway canister
V8	Full flow, replaceable element
Location	
L6	Right side front of engine
V8	Left rear side of engine
Capacity (qts)	One
Bypass Valve	Opens between 9 to 11 PSI drop in pressure

OIL PAN DRAIN PLUG

Type	Hex head
Location	
L6	Front lower face of oil pan sump
V8	Left lower face of oil pan sump
Size of Hex Head .....	.860 - .875
Thread	1/2 - 20 UNF 2A
Length	0.81
Diameter .....	.410 - .430

OIL DIP STICK - LOCATION

L6	Right side, rear of engine block
V8-283 & 327	Left side, rear of engine block
V8-396 & 427	Right side, center direct to oil pan

COOLING SYSTEM

GENERAL

Type	Liquid, pressurized
Capacity with Heater (Standard Equipment)	
L6	13 Qts
V8-283 Cu.In.	17 Qts
V8-327 Cu.In.	15 Qts
V8-396 Cu.In.	23 Qts
V8-427 Cu.In. (RPO L36)	23 Qts
V8-427 Cu.In. (RPO L72)	23 Qts

RADIATOR

Make and Type	Harrison, tube and center
Core Constant and Thickness	
Distance between Fins	
L6 .....	.25 (Syn) .20 (P/gld)
V8-283 Cu.In. ....	.18 (Syn) .16 (P/gld)
V8-327 Cu.In. ....	.18 (Syn) .16 (P/gld)
V8-396 Cu.In. ....	.20
V8-427 Cu.In. (RPO L36) .....	.20
V8-427 Cu.In. (RPO L72) .....	.16
Distance between Tubes .....	.55
Thickness of Core	
L6, V8-283 & 327 Cu.In.	1.26
V8-396 Cu.In.	1.75
V8-427 Cu.In. (RPO L36)	1.98
V8-427 Cu.In. (RPO L72)	2.62
Frontal Area (Sq.In.)	
L6	323
V8-283 & 327 Cu.In.	357
V8-396 Cu.In.	429
V8-427 Cu.In.	439

RADIATOR, HEAVY DUTY (RPO V01)

Core Constant and Thickness	
Distance between Fins	
L6 .....	.20
V8-283 & 327 Cu.In. ....	.18 (Syn) .16 (P/gld)
V8-396 Cu.In. ....	.16
V8-427 Cu.In. ....	.16
Distance between Tubes .....	.55
Thickness of Core	
L6, V8-283 & 327 Cu.In.	1.75
V8-396 & 427 Cu.In.	1.98
Frontal Area (Sq.In.)	
L6	403
V8-283 & 327 Cu.In.	429
V8-396 Cu.In.	439

RADIATOR CAP RELIEF VALVE

Opens at Approximately 15 PSI

THERMOSTAT

Type	Pellet
Begins to Open at	177°-183°F
Fully Opened at	212°F
Thermostat By-pass Hose (V8-396 & 427) .....	.745 ID

RADIATOR HOSE

Outlet, Lower (Radiator to Water Pump)	
L6, V8-283 & 327 Cu.In.	1.75 ID
V8-396 & 427 Cu.In.	1.88 ID
Inlet, Upper (Thermostat Hsg. to Radiator)	1.50 ID

FAN

Number of Blades-	
L6, V8-283, 327, 396 & 427 Cu.In. (RPO L36)	4
V8-427 Cu.In. (RPO L72)	5, staggered
Diameter	
L6, V8-283, 327, 396 & 427 Cu.In. (RPO L36)	17.62
V8-427 Cu.In. (RPO L72)	18.00
Fan Pulley Pitch Diameter	7.00
Drive (V8-427, RPO L72 only)	
Type	Thermomodulated fluid coupling
Performance at 4000 RPM Input	At 135°-155°F, fan speed 3300 to 3500 RPM; at 120°F and below, fan speed 800-1800 RPM

BELTS, CRANKSHAFT, FAN AND GENERATOR

Number Used	
L6, V8-283, 327, 396 & 427 Cu.In. (RPO L36)	One
V8-427 Cu.In. (RPO L72)	Two
Angle of "V"	38°-42°
Pitch Line	
L6	39.00
V8-283 & 327 Cu.In.	53.25
V8-396 Cu.In.	56.20
V8-427 Cu.In. (RPO L36)	56.20
V8-427 Cu.In. (RPO L72)	56.20
Fan, Generator and Water Pump Belt	55.50
Fan and Water Pump Belt	43.00
Width .....	.380

WATER PUMP

Type	Centrifugal
Capacity	
L6	60 GPM @ 4400 Engine RPM
V8-283 Cu.In.	54 GPM @ 4400 Engine RPM
V8-327 Cu.In.	57 GPM @ 4400 Engine RPM
V8-396 Cu.In.	82 GPM @ 5200 Engine RPM
V8-427 Cu.In.	82 GPM @ 5200 Engine RPM
Bearing	Permanently lubricated double row ball
Drive	Fan belt
Ratio (Pump to Engine RPM) .....	.949:1

DRAIN LOCATIONS AND TYPE

Radiator - Petcock	
L6, V8-283 & 327 Cu.In.	Right side - bottom
	Heavy duty - left side bottom
V8-396 & 427 Cu.In.	Left corner bottom
Engine Block - Plug	
L6	Left rear side
V8-283 & 327 Cu.In.	Right and left center
V8-396 & 427 Cu.In.	Left side - rear of block
	Right side - center of block

ELECTRICAL SYSTEM

SUPPLY SYSTEM

BATTERY

Voltage rating 12
 Capacity (GAE)
 L6 & V8-383 44 Amp hr @ 20 hr rate
 V8-327, 396 & 427 61 Amp hr @ 20 hr rate
 Heavy duty (RPO T60) 70 Amp hr @ 20 hr rate
 Total number of plates
 L6 & V8-383 54
 V8-327, 396, 427 and heavy duty 66
 Number of cells 6
 Terminal grounded Negative
 Location Right front engine compartment

GENERATOR

Type Diode rectified
 Rating
 Amps 9-37
 Volts 12-15
 Drive By fan belt
 Pulley pitch diameter 2.70
 Ratio (gen. to engine speed) 2.46:1

REGULATOR

Type Two unit, vibrator
 Voltage regulator
 Voltage 13.8-14.8 @ 85 degrees F
 Field relay (combination light and field relay)
 Closing voltage 1-3 volts @ 80 degrees F
 Location Left side front engine compartment

STARTING SYSTEM

STARTING MOTOR

Rotation (drive end view) Clockwise

Test conditions Engine at operating temp.

No load test

Amps

L6 & V8-383 49-76

V8-327, 396 & 427 65-100

Volts 10.6

RPM

L6 & V8-383 6200-9400

V8-327, 396 & 427 3600-5100

Motor drive

Engagement Solenoid

Pinion meshes at Rear

Pinion tooth no. 9

Flywheel tooth no. 153; V8-396 & 427 ... 168

Mounting

L6, V8-383 & 327 Bolted to

cylinder block flange

V8-396 Bolted to clutch housing

IGNITION SYSTEM

DISTRIBUTORS Refer to chart below

COIL

Type 12-Volt

Amps drawn

Engine stopped 4.0

Engine idling 1.8

SPARK PLUGS

Type

L6 AC46N (Long reach)

V8-383 AC45

V8-327 AC44

V8-396 & 427 AC43N

Thread size (mm) 14

Gap033-.038

Torque 25 lb ft

CABLE Linn core impregnated

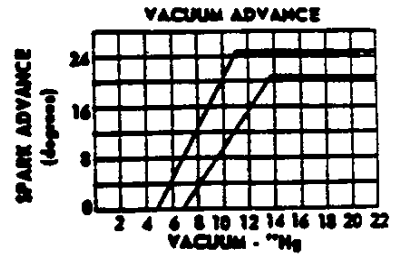
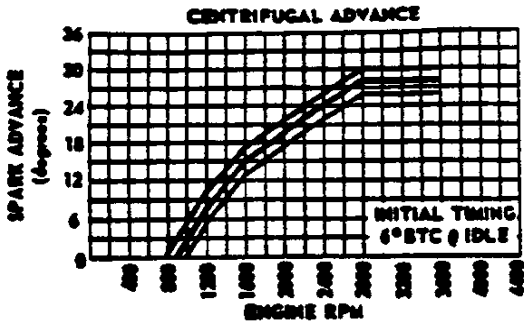
with electrical conducting material and

insulation of rubber with neoprene jacket

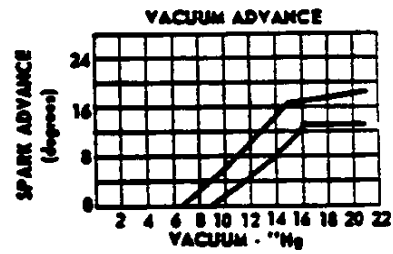
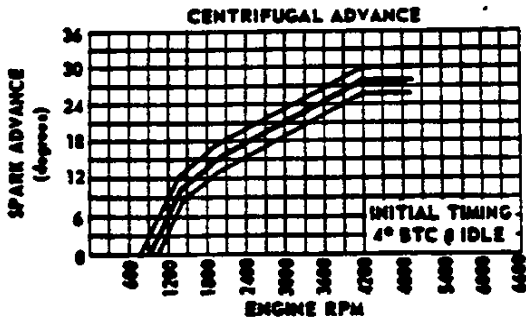
DISTRIBUTORS ●	L-6 290 Cu. In. 155 HP	V-8 283 Cu. In. 195 HP	V-8 283 Cu. In. 220 HP	V-8 327 Cu. In. 275 HP	V-8 396 Cu. In. 325 HP	V-8 427 Cu. In. 390 HP	V-8 427 Cu. In. 425 HP
Model	1110351	1111150		1111152	1111109	1111112	1111100
Type	Single Breaker						
Cam angle	31°-34°						28°-32°
Breaker gap	.019 (new)						
Breaker arm tension	19-23 oz						
Centrifugal advance begins (RPM)	900						
Max degrees @ RPM	28 @ 2800	28 @ 4200		26 @ 4100	30 @ 5800		28 @ 4400
Vacuum advance begins (in. Hg)	6.00		6.00		6.00	6.00	7.00
Max degrees @ in. Hg	21 @ 14.5		15 @ 15.5		20 @ 17	13 @ 12	12 @ 12
Timing (initial design setting)	6° ± 1°	4° ± 1°		8° ± 1°	4° ± 1°	4° ± 1°	8° ± 1°
Crankshaft degrees @ RPM (with vacuum line disconnected)	BTC @ 500	BTC @ 500		BTC @ 500	BTC @ 500	BTC @ 550-600	BTC @ 800
Timing mark location	Harmonic balancer except V8-383 on crankshaft pulley hub						

ELECTRICAL SYSTEM—Cont'd.

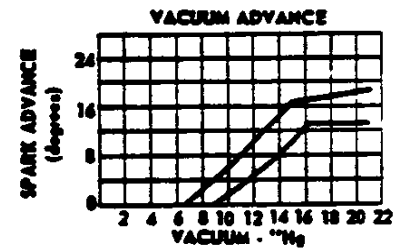
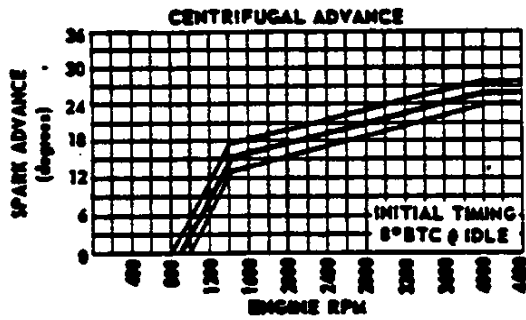
250 CUBIC INCH L-6 ENGINE



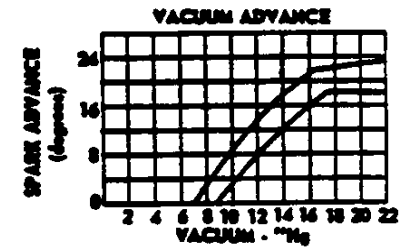
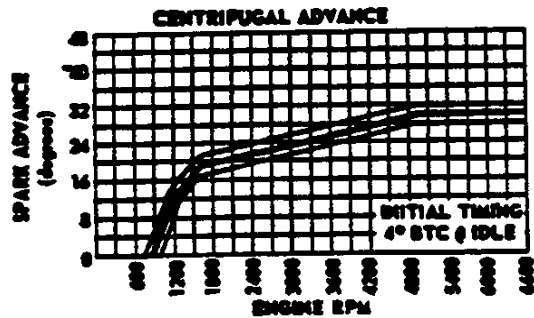
283 CUBIC INCH V-8 ENGINE



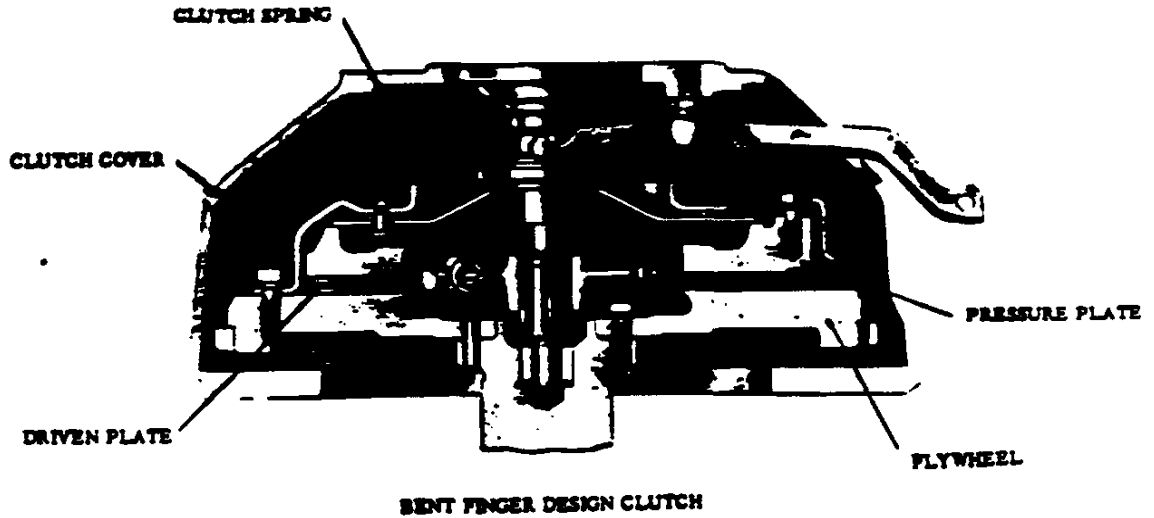
327 CUBIC INCH V-8 ENGINE



396 CUBIC INCH V-8 ENGINE



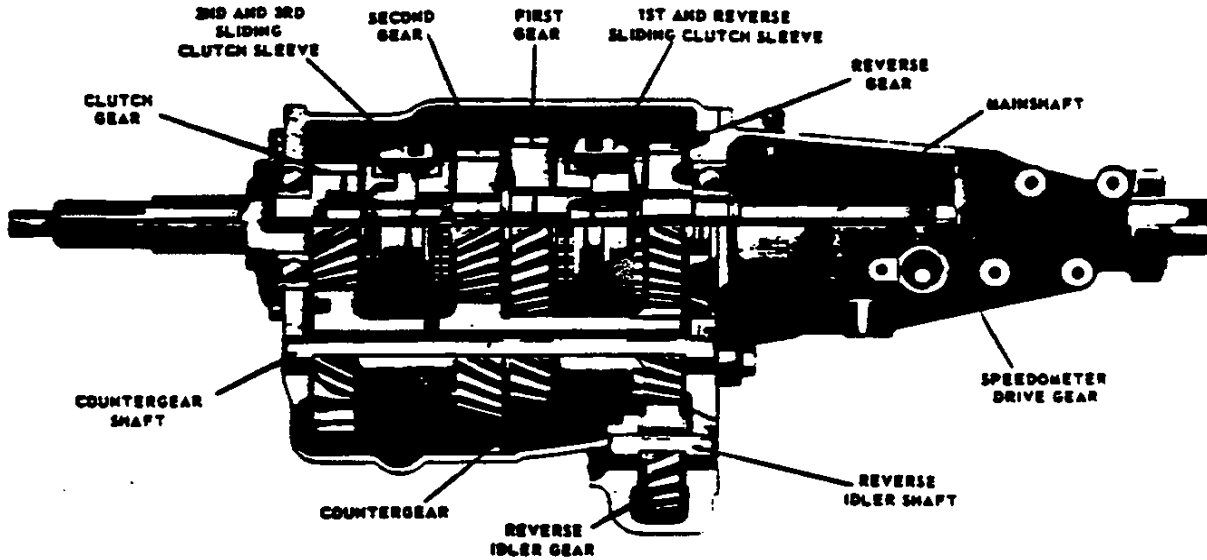
CLUTCHES



Engine	Type	L-6 350 CU.IN.		V-6 283 CU.IN.		V-8 327 CU.IN.		V-8 396 CU.IN.		V-8 427 CU.IN.				
		Regular Production												
Availability		RPO L30						RPO L35		RPO L36 & 72				
Clutch for		3-Spd	OD	M01*	3-Spd	OD	4-Spd	Z04**	3-Spd	4-Spd	3-Spd H.D.	4-Spd	3-Spd H.D.	4-Spd
Type		Single dry disc						Single dry disc, centrifugal						
Clutch cover & pressure plate	Eff. plate load, lbs.	1900-1800		1700-1950		2100-2300		2450-2750		(a)				
	Press. plate matl.	Cast iron						Nodular iron						
Clutch spring type		Diaphragm						Diaphragm, bent finger design						
	Clutch spring matl.	Heat treated spring steel												
Driven plate	Type	Single disc with two friction surfaces												
	Cushions	Flat spring steel between friction rings												
	Damper	6 coil springs			12 coil springs (6 sets of two)			10 coil springs (5 sets of two)						
	Friction Ring	OD	9.12	11.0	10.0	10.4	11.0							
		ID	6.12	6.5	6.5	6.5	6.5							
Total area sq. in.		71.8	123.7	90.7	108.5	123.7								
	Matl.	Woven type asbestos (b)												
Flywheel & Ring Gear	Matl.	Cast iron												
	Matl.	Heat treated HR steel												
	No. of teeth	153						168						
	PD	12.75						14.00						
Bearings	Attachment	Shrink fit												
	Type	Single row ball												
	Lubrication	None, prepacked												
	Type	Bronze bushing												
Clutch fork	Type	None, sintered and oil impregnated												
	Lubrication	Drop forged steel, pivot mounted on ball												
		Pendant, from brace on dash												
Concrete	Clutch housing	Crossover shaft												
	Lubrication	Aluminum alloy												

- * M01 - Option for Heavy Duty Clutch.
- ** Z04 - Option for Heavy Duty Chassis.
- (a) 2600-2800 lbs.
- (b) Molded rear asbestos rings with M01 and Z04.

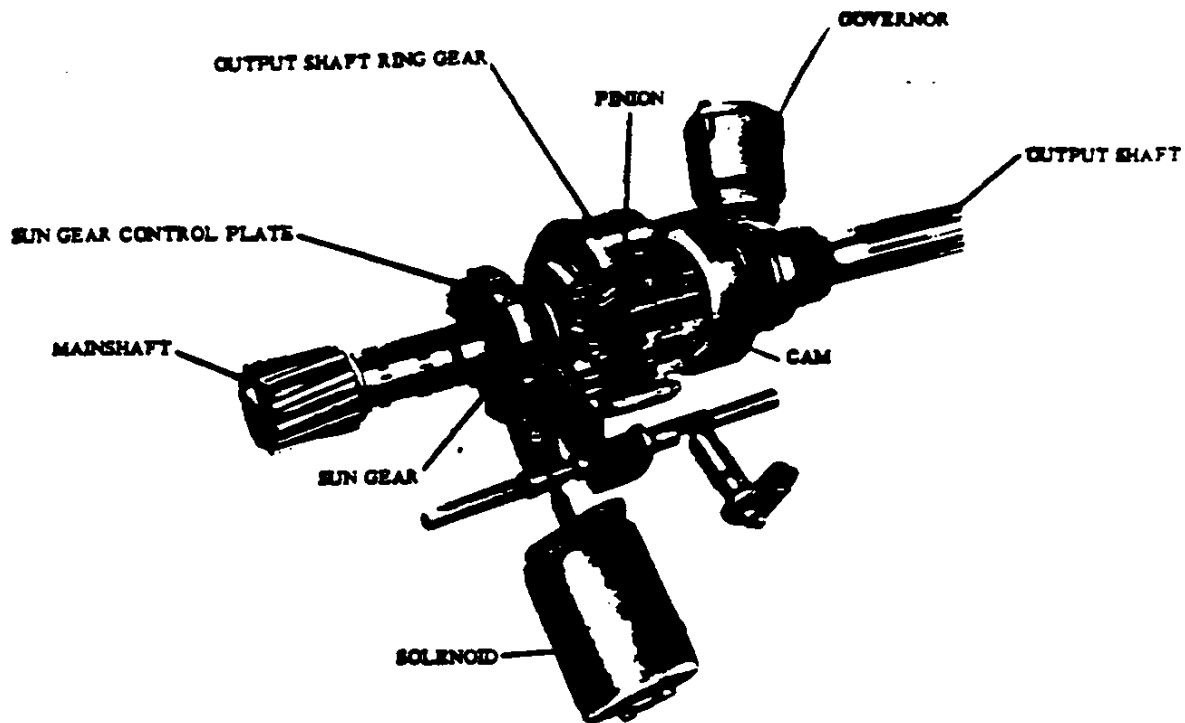
TRANSMISSIONS



3-SPEED HEAVY DUTY TRANSMISSION (RPO-M13)

3-SPEED AND 4-SPEED TRANSMISSIONS

Transmission Type		3-Speed			3-Spd. H.D. (M13)			4-Speed							
Engine Application	Type	L-6	V-8	V-8	V-8	V-8 427 C.I.	V-8	V-8	V-8	V-8 427 C.I.					
	Availability	290 C.I.	283 C.I.	327 C.I.	306 C.I.	L-30	L-35	L-36	L-72	283 C.I.	327 C.I.	306 C.I.	L-36	L-72	L-72
Case material		Cast Iron						Aluminum							
Gear Shift	Type	Steering column						Floor							
	Control	Remote						Lever							
Gears	Location	Steering column						Floor							
	Type	Helical						Helical							
	Material	Forged steel, hardened						Forged steel, hardened							
	Synchronization	All forward gears						All forward gears							
	Constant mesh gear	All gears						All forward gears							
	Sliding gears	None						Reverse							
	Ratios	First	2.85	2.54	2.41	2.41	3.11	2.54	2.52	2.26	2.26	2.26	2.26	2.26	2.26
	Second	1.68	1.50	1.57	1.57	2.20	1.80	1.88	1.64	1.64	1.64	1.64	1.64	1.64	1.64
	Third	1.00	1.00	1.00	1.00	1.47	1.33	1.46	1.27	1.27	1.27	1.27	1.27	1.27	1.27
	Fourth					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Reverse	2.95	2.65	2.41	2.41	3.11	2.54	2.59	2.26	2.26	2.26	2.26	2.26	2.26	2.26
Lubricant	Type	Meeting Military Specification MIL-L-2105-B													
	Capacity (pzs)	2						2.5							
Extension	Material	Cast iron						Aluminum							
	Oil seal	Steel encased double seal of spring loaded rubber or felt													



OVERDRIVE TRANSMISSION (RPO M10)

GENERAL

Type ----- 3-pinion planetary drive unit
 Description ----- Adaptable to 3-speed transmission. Overdrive drive unit with integral mainshaft replaces mainshaft and extension of 3-speed.
 Operation ----- Activation by manually operated pull type lockout switch located under instrument panel to right of steering column; when fully extended, overdrive unit is inoperative. Overdrive unit can be over-riden by a downshift switch located at the carburetor and controlled by the accelerator pedal; over-riding achieved by tramping accelerator.

Lubricant

Type ----- Meeting Military Specification MIL-L-2105-B

Viscosity ----- SAE 80

Capacity (qt) ----- Total 3 pints,
 2 for transmission, 1 for overdrive unit

Gear ratios with overdrive locked in

First ----- 1.995

Second ----- 1.176

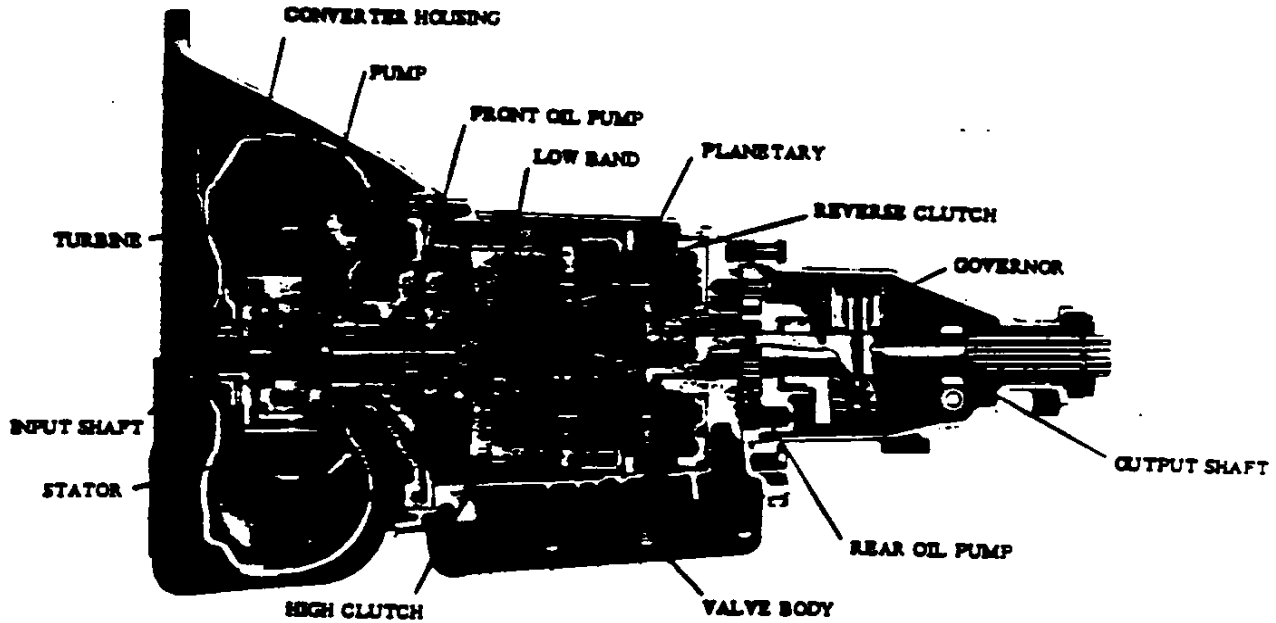
Third ----- 0.700

Output shaft RPM

Out-in ----- 1640

Out-out ----- 1100

TRANSMISSIONS—Cont'd.



AUTOMATIC TRANSMISSION (RPO M35)

Engine	Type	L-6 250 Cu.In.	V-8 283 Cu.In.	V-8 327 Cu.In.	V-8 396 Cu.In.
	Availability		Standard	L37	RPO L30
General data	Type	Automatic hydraulic torque converter with planetary gear system for low and reverse			
	Selector lever	Location	Steering column (a)		
		Operation	Actuates manual valve in hydraulic control system		
		Quadrant pattern	P-R-N-D-L		
	Parking lock	Type	Pawl and gear (on planetary)		
		Operation	Applied by selector lever thru spring loaded linkage		
	Method of cooling	Water			
Flywheel assembly	Steel stamping with welded on ring gear				
Hydraulic	Manual valve type	Spool			
	Pressure regulator valve type	Spool			
	Pressure	Drive	51	51	51
		Low	122	133	141
Reverse		82	86	89	
Converter assembly	Type	Three element			
	Pump	Inner and outer sheet steel shells separated by sheet steel vanes. Outer shell to pump housing which is welded to converter housing.			
	Turbine	Inner and outer shells separated by sheet steel vanes. Assembly supported in converter cover. Operation independent of cover and pump housing.			
	Stator	Aluminum air foil supported on a stationary sleeve by an over-running clutch of cam and roller design.			
	Shell torque ratio	2.10			
	Shell speed (RPM)	1650	1330 / 1540	1660	1800
	Diameter (nominal)	11.0		11.75	
Planetary gear set	Type	Compound planetary			
	Range	Drive	1.82 to 1.00	1.76 to 1.00	
		Low	1.82	1.76	
		Reverse	1.82	1.76	
	Low band	Three linked circular segments			
Low band servo	Piston with release spring and inner cushion spring				
Case	Material	Aluminum (one piece)			

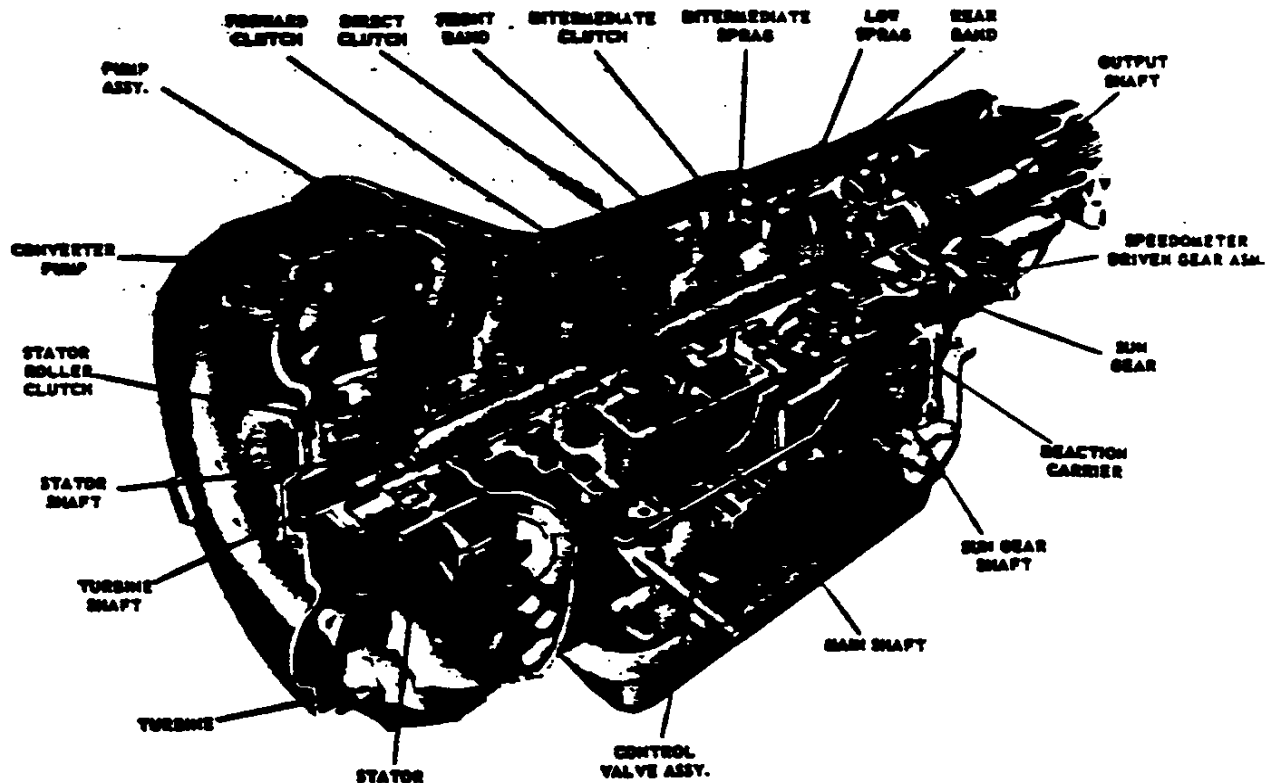
(a) Floor mounted when used with bucket seats
 (b) Conditions: 450 RPM input @ 25 inches Hg vacuum.

AUTOMATIC TRANSMISSION - CONTINUED

Engine	Type		L-6	V-6	V-6	V-8
			250 Cu. In.	283 Cu. In.	317 Cu. In.	396 Cu. In.
	Availability		- Standard	L77	RPO L30	RPO L35
	N/V factor		40.0	40.0	40.0	39.9
Output shaft RPM and vehicle speed (MPH)	Upshift	Closed throttle	650(16)	650(16)	651(16)	660(17)
		Throttle at detent	1900(45)	2085(51)	2130(54)	2330(59)
		Full throttle	2205(53)	2400(59)	2495(58)	2750(69)
	Downshift	Closed throttle	605(14)	605(15)	605(15)	615(16)
		Throttle at detent	1170(28)	1257(29)	1257(29)	1395(33)
		Full throttle	2090(49)	2270(55)	2330(59)	2585(65)
High clutch	Type		Multi-disk			
	Drive plates	Description	Waved steel with bonded organic facings			
		Number	3		4	
	Driven plates	Description	Flat steel			
		Number	4		5	
Reverse clutch	Type		Multi-disk			
	Drive plates	Description	Flat steel with bonded organic facings			
		Number	4	4		6
	Reaction plates	Description	Flat steel			
		Number	3	4		6
Torque multiplication	Maximum overall ratio		3.52			3.70
	Low and reverse		3.62 to 1.62			3.70 to 1.76
Lubricant	Type		A multi A			
	Capacity (qt)	Dry (Refill)	15(a)		18	
Governor	Type		Concentric			
	Operation		Regulates pump oil pressure to automatic shift control valve			
	Drive		Mounted on output shaft			
	Location		In extension			
Oil pumps	Type		Internal-external gear			
	Number		Two, front and rear			
	Function		To supply pressure			
	Front pump	Drive	Converter pump			
		Function	Supply main system pressure at low vehicle speeds			
	Rear pump	Drive	Output shaft			
Function		Supply main system pressure at high vehicle speeds and during push starts				

(a) 18 with water cooled equipment.

TRANSMISSIONS—Cont'd



TURBO HYDRA-MATIC TRANSMISSION (RPO M40)

(Available with 396 Cu. In. 325 HP RPO L35 and
427 Cu. In. 390 HP RPO L36 only)

GENERAL DATA

Type Three element automatic hydraulic torque converter with a compound planetary gear set that produces three forward speeds and reverse

Selector Lever
Location Steering column; floor mounted on models using bucket seats

Operation Automatic automatic controls by a hydraulic system from a pressurized gear type pump

Quadrax Pattern Six positions: P-R-N-D-L₂-L₁

External Control Connections
Manual Linkage Selects desired operating range by means of selector lever

Vacuum Modulator Senses change in the torque input to the transmission and causes enough shifts

Downshift Solenoid Actuated by electric switch or the carburetor causing the transmission to downshift under full throttle conditions at car speeds below 70 miles per hour

Parking Lock
Type Locking pawl

Operation Applied by selector lever through manual linkage

Method of Cooling Water

TORQUE CONVERTER

Driving Member (Pump) Multivane type, shear metal blade, spot welded to steel pump housing that is an integral part of the converter housing

Driven Member (Turbine) Steel axial flowblades assembled between inner and outer steel shells

Stator Assembly Aluminum multivane type blades mounted on a one way roller clutch

Shell Ratio 2.04

Shell Speed (RPM)
V8-396 2100
V8-427 2200

Diameter (Nominal) 12.83

TURBO HYDRA-MATIC TRANSMISSION—CONTINUED

CLUTCHES

Type	Three, multiple disk
Material	
Drive plates	Waved steel with bonded organic facings
Driven plates	Flat steel
Forward clutch	Five each drive and driven plates
Direct clutch	Five each drive and driven plates
Intermediate clutch	Three each drive and driven plates
Release spring	Radial row steel coil

PLANETARY GEAR UNIT

Front	Reaction carrier assy	Four steel pinion gears
Rear	Output carrier assy	Four steel pinion gears
Gear Ratios		
D (Drive)	2.48:1, 1.48:1, 1.00:1	
L2 (Low two)	2.48:1, 1.48:1	
L1 (Low one)	2.48:1	
R (Reverse)	2.08:1	
Front Band		
Type	One, circular steel with organic lining	
Function	Provides engine braking in 2nd gear with selector lever in L2 and L1 range	
Rear Band		
Type	Double wrap circular steel with organic lining	
Function	Provides engine braking L2 range 1st gear; also in reverse range the band holds the reaction carrier to apply reverse gear ratio	
Servo units	Piston with release spring and inner cushion spring that activates the bands	

HYDRAULIC SYSTEM

Oil pressure pump	Supplies hydraulic pressure by gear type pump which is engine driven
Pump pressure (450 RPM input @ 25 in. Hg vacuum)	
Park	70 PSI
Neutral	70 PSI
Drive (First, second, third)	70 PSI
L2 (First, second)	150 PSI
L1	150 PSI
Reverse	107.5 PSI
Valves	
Type	Steel spool
Manual	Establishes range at transmission operation
Pressure regulator	Controls main line pressure
Shift (1-2)	Controls oil pressure for trans. shift from 1-2 or 2-1
Shift (2-3)	Controls oil pressure for trans. shift from 2-3 or 3-2
Modulator	Regulates line pressure with modulator oil pressure one varies with torque to transmission
Accumulator	To obtain greater flexibility in attaining desired shift curve for various engine requirements
Governor	
Type	Cross-axis centrifugal
Operation	Regulates a pressure proportional to car speed which acts upon the (1-2)(2-3) shift valves and modulator valve

LUBRICANT

Type	A grade A
Capacity	22 pns
Refill	8 pns
Oil cooler	Integral with radiator assembly and connected to transmission by inlet and outlet pipes

● TORQUE MULTIPLICATION

Drive (maximum)	3.08:1 to 1:1
Low 2	3.02:1 to 1.48
Low 1	3.08:1 to 2.48
Reverse	4.24:1 to 2.08

1
2
3

ORIGINAL

CHEVROLET

1966 MODELS WITH STANDARD EQUIPMENT (119" Wheelbase)

Model Description	List Price Less Invoice Discount (23%)*	List Price Less Base Discount (25%)	Factory D & H	List Price	Mfr's Suggested Dealer D & H	Mfr's Suggested Retail Price*	Destination Charge	Total
6-Cylinder Models								
155-hp Turbo-Thrift 250 Engine								
Biscayne Series:								
15311 2-Door Sedan—6-Passenger						\$2379.00		
15369 4-Door Sedan—6-Passenger						2431.00		
15335 4-Door Station Wagon—2-Seat						2772.00		
Bel Air Series:								
15511 2-Door Sedan—6-Passenger						2479.00		
15569 4-Door Sedan—6-Passenger						2531.00		
15535 4-Door Station Wagon—2-Seat						2835.00		
15545 4-Door Station Wagon—3-Seat						2948.00		
Impala Series:								
16369 4-Door Sedan—6-Passenger						2678.00		
16337 2-Door Sport Coupe—5-Passenger						2684.00		
16339 4-Door Sport Sedan—6-Passenger						2747.00		
16367 2-Door Convertible—5-Passenger						2935.00		
16335 4-Door Station Wagon—2-Seat						2971.00		
16345 4-Door Station Wagon—3-Seat						3083.00		
Impala Super Sport Series:								
16737 2-Door Sport Coupe—4-Passenger						2842.00		
16767 2-Door Convertible—4-Passenger						3093.00		
8-Cylinder Models								
195-hp Turbo-Fire 283 Engine								
Biscayne Series:								
15411 2-Door Sedan—6-Passenger						2484.00		
15469 4-Door Sedan—6-Passenger						2537.00		
15435 4-Door Station Wagon—2-Seat						2877.00		
Bel Air Series:								
15611 2-Door Sedan—6-Passenger						2584.00		
15669 4-Door Sedan—6-Passenger						2636.00		
15635 4-Door Station Wagon—2-Seat						2940.00		
15645 4-Door Station Wagon—3-Seat						3053.00		
Impala Series:								
16469 4-Door Sedan—6-Passenger						2783.00		
16437 2-Door Sport Coupe—5-Passenger						2789.00		
16439 4-Door Sport Sedan—6-Passenger						2852.00		
16467 2-Door Convertible—5-Passenger						3041.00		
16435 4-Door Station Wagon—2-Seat						3076.00		
16445 4-Door Station Wagon—3-Seat						3189.00		
Impala Super Sport Series:								
16837 2-Door Sport Coupe—4-Passenger						2947.00		
16867 2-Door Convertible—4-Passenger						3199.00		
Caprice Series:								
16647 2-Door Custom Coupe—5-Passenger						3000.00		
16639 4-Door Custom Sedan—6-Passenger						3063.00		
16635 4-Door Custom Wagon—2-Seat						3234.00		
16645 4-Door Custom Wagon—3-Seat						3347.00		

* Base discount is 25% with the 2% difference retained for dealer's account in accordance with Terms of Sale Bulletin.
 * Manufacturer's Suggested Retail Prices do not include state and local taxes, license fees, options or accessories.



CHEVROLET

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Ordering Code	Option Number	Dealer Net	Factory D & H	List Price	MSRP Suggested Retail Delivered Price ♦
Air Cleaner: HD, oil bath, capacity 1 pt. Available only on 6-cyl models. Not available when GM air injection reactor or automatic level control shock absorbers are ordered.	39-1	K45				\$ 5.30
Air Conditioning, Four-Season: Includes 61-amp Delcotron, heavy-duty radiator and temperature-controlled radiator fan. 8.25-14 or larger tires required with 325-hp engine except models 15411 & 15611. Not available when 425-hp engine is ordered. Also includes HD battery when Turbo Hydra-Matic transmission is ordered.	54-1	C60				356.00
Air Conditioning, Comfortron: (Automatic temperature control) Includes 61-amp Delcotron, HD radiator and temperature-controlled radiator fan. 8.25-14 or larger tires required with 325-hp engine except models 15411 & 15611. Not available when 425-hp engine is ordered. Also includes HD battery when Turbo Hydra-Matic transmission is ordered.	54-3	C60/C75				419.20
Air Deflector, Rear Window: Anodized aluminum. Wagons only	59-2	C51				19.00
Antenna, Rear: Replaces front radio antenna. Not available on wagons or when AM-FM radio is ordered						
Manual Power	47-1	U73				9.50
Power	47-2	U75				28.45
Axle, Rear: See Power Teams chart for availability and ordering code						
3.07 ratio		H01				2.15
3.31 ratio		G94				N.C.
3.36 ratio. Not available when taxi equipment is ordered.		G76				2.15
3.55 ratio		G96				N.C.
3.73 ratio		H05				2.15
Axle, Positraction Rear: See Power Teams chart for availability & ordering code. Not available with taxicab or HD chassis equipment.		G80				42.15
Battery, Heavy-Duty: 66-plate, 70-amp-hr; included when Turbo Hydra-Matic transmission with air conditioning is ordered	35-1	T60				7.40
Belts, Seat:						
Custom deluxe front with retractors and custom deluxe rear						
All models except 3-seat wagons	53-2	A39				10.55
All 3-seat wagons	53-2	A39				13.70
Body Equipment, Heavy-Duty: Biscayne only						
Sedans—Includes HD front & rear seats and HD front & rear floor mats	53-2	B01				17.95
Wagons—Includes HD front seat and HD front & rear floor mats	53-2	B01				10.55
Brakes, Special: Metallic facings. Not available with taxi equipment	43-1	J65				36.90
Brakes, Power	33-2	J50				42.15
Carpet: Local floor area. Caprice and Impala wagons	48-2	B39				52.70
Carrier, Luggage: Wagons only	50-4	V55				42.15
Chassis Equipment, Heavy-Duty: For use only with std 3-spd or Powerglide transmission. Not available with Turbo-Jet 396- or 427-cu-in engines or air conditioning. Includes HD brakes, HD front & rear springs & shock absorbers. Also includes HD radiator when Powerglide transmission is ordered on 6-cyl models. Not available with GM air injection reactor.						
Biscayne models only	43-2	Z04				36.90
Clutch, Heavy-Duty: Included when taxi equipment is ordered. Available only on 6-cyl models. Not available with GM air injection reactor.	44-2	M01				10.55
Convenience Equipment: Includes inside day-night mirror, LH outside remote-control mirror, door edge guards (except Caprice wagons) and under hood lamp						
Caprice & Impala Series: coupes and convertibles	48-5	Z19				19.00
Sedans and Impala wagons	48-5	Z19				22.15
Caprice wagons	48-5	Z19				15.80
Bel Air Series: Also includes luggage lamp on sedans						
2-Door sedans	48-5	Z19				21.10
4-Door sedans	48-5	Z19				24.25
Station wagons	48-5	Z19				22.15
Biscayne Series: Also includes glove box lamp on all models and luggage compartment lamp on sedans						
2-Door sedans	48-5	Z19				23.20
4-Door sedans	48-5	Z19				26.35
Station wagons	48-5	Z19				24.25
Defroster, Rear Window: Not available with AM-FM stereo. Sedans and sport coupes only	59-1	C50				21.10
Engine: See Power Teams chart for complete engine specifications, model and transmission availability						
220-hp Turbo-Fire 283	30-9	L77				52.70
275-hp Turbo-Fire 327	30-2	L30				92.70
325-hp Turbo-Jet 396	30-4	L35				158.00
390-hp Turbo-Jet 427	30-7	L36				316.00
425-hp Turbo-Jet 427	30-8	L72				447.65

♦ State and local taxes not included.



CHEVROLET

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Ordering Col-Code	Option Number	Dealer Net	Factory D & E	List Price	Mr's Suggested Retail Delivered Price [⊕]
Exhaust, Dual: Available only with 275-hp or 325-hp engines	41-2	N10				\$ 21.10
Fan, Radiator: Temperature-controlled. Included when 425-hp engine or air conditioning is ordered	44-1	K02				15.80
Generator:						
42-amp Delcotron. Included when Turbo Hydra-Matic transmission or full-transistor ignition is ordered. Not available when air conditioning is ordered	42-1	K79				10.55
61-amp Delcotron. Not available with taxi equipment. Included when air conditioning or when Turbo Hydra-Matic transmission with full-transistor ignition is ordered	42-2	K76				21.10
62-amp Delcotron. Not available with Turbo Hydra-Matic when air conditioning is ordered. Not available with GM air injection reactor.						
For use without air conditioning	42-3	K81				73.75
For use with air conditioning	42-3	K81				63.20
Glass, Soft Ray Tinted: All windows	50-2	A01				36.90
Windshield only	50-1	A02				21.10
GM Air Injection Reactor: Approved by the state of California and exclusive to California vehicle registration only. Not required with 425-hp engine. Available only when closed engine positive ventilation is ordered	40-2	K19				44.75
Guard: Front bumper	50-1	V31				13.80
Rear bumper: not available on wagons	50-2	V32				9.50
Harness, Shoulder: Driver and passenger; for use with Custom Deluxe Seat Belts only	53-6	A85				26.35
Headrest, Strato-Ease: Driver & passenger						
With Strato bench or bucket front seats	57-1	A81				52.70
With std bench front seat	57-2	A82				42.15
Heater & Defroster Deletion: Not available when air conditioning is ordered	54-4	C48				70.50 CR.
Horn, Tri-Volume: Not available when automatic level control shock absorbers or HD air cleaner is ordered	63-3	U03				13.70
Ignition System: (Full-transistor) Includes 42-amp Delcotron. Available only when 325-hp, 390-hp or 425-hp engine with special full-synchro 3-speed, 4-speed or Turbo Hydra-Matic transmission is ordered; for detailed description see 1966 Finger-Tip Facts book	44-4	K66				73.75
Instrumentation, Special: Impala Super Sport Series only. Mounted in pedestal between console & instrument panel. Includes ammeter, temperature, oil pressure & vacuum gauges and lower instrument panel pad	49-5	D59				42.15
Lock, Spare Wheel	56-1	F19				5.30
Lock, Stowage Compartment: 2-seat wagons only	56-2	A36				10.55
Paint, Exterior: Solid colors						N.C.
Two-tone combinations						15.80
Radiator, Heavy-Duty: Included when 425-hp engine or air conditioning is ordered	36-2	V01				10.55
Radio: Includes front antenna. Rear antenna must be ordered separately						
Pushbutton control	46-3	U63				57.40
Pushbutton control with rear seat speaker	46-4	U63/U80				70.60
AM-FM pushbutton control; front antenna only	46-5	U69				133.80
AM-FM pushbutton control; with rear seat speaker; front antenna only	46-6	U69/U80				147.00
AM-FM Stereo, pushbutton control; front antenna only	46-7	U69/U79				239.15
Roof Cover, Vinyl: For hardtop models only (Solid exterior colors only)						
Black vinyl	55-6	C08				79.00
Beige vinyl	55-7	C08				79.00
Seat, Strato-Back: (Bench) Models 16639 & 16647 only. Includes center armrest	62-6	A53				105.35
Seats, Strato-Bucket: Model 16647 only. Not available with dealer-installed air conditioning. Includes center console with instrument gauges and instrument panel lower pad	62-4	A51				200.15
Seat Cushion, Foam Rubber Front: For Biscayne only	62-2	B50				7.40
Seat, Divided Second: For Biscayne, Bel Air & Impala Station Wagons only. Fawn trim only	62-1	A66				36.90
Seat, Power: 6-way electric control; front seat. Not available with 4-speed transmission, bucket seats or Biscayne Series.	61-1	A42				94.80
4-way electric control; driver's seat only. Available only on Impala Super Sport or when bucket seats are ordered	61-2	A46				69.55
Shock Absorbers, Rear:						
Superlift	38-1	G66				36.90
Superlift—automatic level control. Not available with GM air injection reactor on 6-cylinder models	38-3	G66/G67				84.30
Speed and Cruise Control: V8 engine models only. Available only when Powerglide or Turbo Hydra-Matic transmission is ordered	43-4	K30				76.40
Springs, Special Front:						
3-seat wagon only. Included with 425-hp engine	37-2	F60				1.10
Steering, Power	33-1	N40				94.80

⊕ State and local taxes not included.

March 16, 1966

Section III—Page 5



CHEVROLET

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Ordering Col-Code	Option Number	Dealer Net	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price
Steering Wheel: Sports-ryed walnut-grained plastic rim. Not available when Tilt-telescopic steering wheel is ordered.	52-1	N34				\$ 31.60
Steering Wheel, Comfortilt: Available only when Powerglide, Turbo Hydra-Matic or 4-speed transmission is ordered. Not available when bucket seats (Caprice) or special instrumentation is ordered.	52-4	N33				42.15
Steering Wheel, Tilt-Telescopic: Available only when Powerglide, Turbo Hydra-Matic or 4-speed transmission is ordered.	52-2	N37				79.00
Suspension, Special Front & Rear: Not available when taxi or heavy-duty chassis equipment is ordered.						
With 155-hp, 195-hp or 220-hp engine	37-1	F40				15.80
With 275-hp, 325-hp or 390-hp engine. Except wagons	37-1	F40				4.75
With 275-hp, 325-hp or 390-hp engine. Wagons only	37-1	F40				3.70
Suspension, Special Purpose Front & Rear: Available only when 325-hp, 390-hp or 425-hp engine is ordered. Includes special springs, matching shock absorbers, special front & rear stabilizers and 14 x 6JK wheels. Not available when 15" tires are specified.	37-5	F41				31.60
Tachometer: Mounted on instrument panel; included when 4-spd transmission with 325-hp, 390-hp or 425-hp engine is ordered. Not available on 6-cyl models.	41-1	U16				47.40
Taxi Equipment: For use only with 155-hp, 195-hp or 220-hp engines and 3-spd or Powerglide transmissions. Not available with overdrive transmission, air conditioning, or Postraction rear axle. Includes HD shock absorbers, HD front & rear springs & 1.75-15 tires. Also includes HD radiator when Powerglide transmission is ordered on 15369 Model 15369 only.	63-1	B02				62.15
Model 15469 only	63-1	B02				56.90
Tops, Convertible: Convertible models only. Available with all exterior solid colors—White.	55-1	Std				N.C.
Black	55-2	C05				N.C.
Beige	55-3	C05				N.C.
Traffic Hazard Warning Switch	40-3	V74				11.60
Transmissions: See Power Teams chart for availability.						
Special 3-Speed fully synchronized with 325-hp, 390-hp, 425-hp engines only	29-6	M13				79.00
4-Speed (Wide-Range) with 195-hp, 320-hp or 375-hp engine	29-3	M20				184.35
4-Speed (Wide-Range) includes tachometer when 325-hp, 390-hp or 425-hp engine is ordered	29-3	M20				231.75
4-Speed (Close-Ratio) with 425-hp engine only. Includes tachometer	29-5	M21				231.75
Overdrive with 155-hp, 195-hp and 220-hp engines only	29-4	M10				115.90
Powerglide with 195-hp, 220-hp, 275-hp and 325-hp engines only	29-1	M35				194.85
Powerglide with 155-hp engine only	29-1	M35				184.35
Turbo Hydra-Matic with 325-hp or 390-hp engine only. Includes 42-amp Delcoron.	29-7	M40				226.45
Trim, Black Vinyl Interior: Impala Sport Coupes and Sport Sedans only	25-L	814				10.55
Trim, Fawn Vinyl Interior: Biscayne Sedans only	25-V	865				5.30
Ventilation, Closed Engine Positive: Included when 425-hp engine is ordered.						
With GM air injection reactor	40-2	K24				5.25
Without GM air injection reactor	40-1	K24				5.25
Wheels: Set of 5 (14 x 6JK) included when special purpose suspension is ordered; std on wagons.	51-3	P12				5.30
Wheel Covers: Four, bright metal. For use only with 14" wheels. Not available on Caprice or Impala Super Sport Series.	51-1	P01				21.10
Wheel Covers, Mag-Style: For use only with 14" wheels						
Caprice and Impala Super Sport Series	51-6	N96				52.70
Impala, Bel Air and Biscayne Series	51-6	N96				73.75
Wheel Covers, Simulated Wire: For use only with 14" wheels						
Caprice and Impala Super Sport Series	51-2	P02				55.85
Impala, Bel Air and Biscayne Series	51-2	P02				73.75
Windows, Power: Not available on Biscayne Series or models 15511-15611.	58-1	A31				100.10
Window, Power Rear: For 2-seat wagons only (std on 3-seat models)	58-2	A33				31.60

* State and local taxes not included.



CHEVROLET BASE TIRE CHARTS

MODELS WITH 6-CYLINDER ENGINES

Model	Base Tires
15311	7.75-14/2-ply (4-ply rating)
15335	8.55-14/2-ply (4-ply rating)
15369	7.75-14/2-ply (4-ply rating)
15511	7.75-14/2-ply (4-ply rating)
15535	8.55-14/2-ply (4-ply rating)
15545	8.55-14/2-ply (4-ply rating)
15569	7.75-14/2-ply (4-ply rating)
16335	8.55-14/2-ply (4-ply rating)
16337	7.75-14/2-ply (4-ply rating)
16339	7.75-14/2-ply (4-ply rating)
16345	8.55-14/2-ply (4-ply rating)
16367	7.75-14/2-ply (4-ply rating)
16369	7.75-14/2-ply (4-ply rating)
16737	7.75-14/2-ply (4-ply rating)
15767	7.75-14/2-ply (4-ply rating)

MODELS WITH V8 ENGINES

Model	Base Tires	Tires Included with 390-hp & 425-hp Engines
15411	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
15435	8.55-14/2-ply (4-ply rating)	
15469	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
15611	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
15635	8.55-14/2-ply (4-ply rating)	
15645	8.55-14/2-ply (4-ply rating)	
15669	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16435	8.55-14/2-ply (4-ply rating)	
16437	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16439	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16445	8.55-14/2-ply (4-ply rating)	
16467	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16469	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16635	8.55-14/2-ply (4-ply rating)	
16639	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16647	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16645	8.55-14/2-ply (4-ply rating)	
16837	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)
16867	7.75-14/2-ply (4-ply rating)	8.25-14/2-ply (4-ply rating)



TIRES FOR CHEVROLET

FACTORY INSTALLED REGULAR PRODUCTION TIRES

Description	Ordering Column 34-35 Code	Option Number	Dealer Net	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price [Ⓢ]
TUBELESS TIRES^a						
Replaces (5) 7.75-14/2-ply (4-ply rating) Regular Highway Blackwall						
(5) 7.75-14/2-ply (4-ply rating) Regular Highway Whitewall	32	P62				\$ 31.30
(5) 7.75-14/4-ply (4-ply rating) Nylon Highway Blackwall	30	P60				16.75
(5) 7.75-14/4-ply (4-ply rating) Nylon Highway Whitewall	31	P61				50.10
(5) 7.75-14/2-ply (4-ply rating) Special Nylon Blackwall	35	T06				15.50
(5) 7.75-14/2-ply (4-ply rating) Special Nylon Whitewall	37	T07				48.85
(5) 8.25-14/2-ply (4-ply rating) Regular Highway Blackwall	40	P75				15.70
(5) 8.25-14/2-ply (4-ply rating) Regular Highway Whitewall	42	P77				51.15
(5) 8.25-14/4-ply (4-ply rating) Nylon Highway Blackwall	41	P76				32.20
(5) 8.25-14/4-ply (6-ply rating) Special Nylon Highway Blackwall	66	T18				64.75
(5) 8.25-14/4-ply (8-ply rating) Special Nylon Highway Whitewall	69	T19				100.15
(5) 8.25-14/2-ply (4-ply rating) Special Nylon Blackwall	38	T08				31.15
(5) 8.25-14/2-ply (4-ply rating) Special Nylon Whitewall	39	T09				56.60
(5) 7.75-15/2-ply (4-ply rating) Regular Highway Blackwall	46	P90				7.60
(5) 7.75-15/4-ply (4-ply rating) Nylon Highway Blackwall	47	P91				24.15
(5) 8.15-15/2-ply (4-ply rating) Regular Highway Blackwall (Not available with overdrive transmission)	62	Q04				23.35
(5) 8.15-15/4-ply (4-ply rating) Nylon Highway Blackwall (Not available with overdrive transmission)	63	Q05				39.30
Replaces (5) 8.25-14/2-ply (4-ply rating) Regular Highway Blackwall						
(5) 8.25-14/2-ply (4-ply rating) Regular Highway Whitewall	42	P77				35.50
(5) 8.25-14/4-ply (4-ply rating) Nylon Highway Blackwall	41	P76				16.55
(5) 8.25-14/4-ply (6-ply rating) Special Nylon Highway Blackwall	66	T18				49.10
(5) 8.25-14/4-ply (8-ply rating) Special Nylon Highway Whitewall	69	T19				84.50
(5) 8.25-14/2-ply (4-ply rating) Special Nylon Blackwall	38	T08				15.50
(5) 8.25-14/2-ply (4-ply rating) Special Nylon Whitewall	39	T09				50.95
(5) 8.15-15/2-ply (4-ply rating) Regular Highway Blackwall	62	Q04				7.70
(5) 8.15-15/4-ply (4-ply rating) Nylon Highway Blackwall	63	Q05				23.65
Replaces (5) 7.75-15/4-ply (4-ply rating) Regular Highway Blackwall						
(5) 7.75-15/4-ply (4-ply rating) Nylon Highway Blackwall	47	P91				16.70
(5) 7.75-15/4-ply (8-ply rating) Regular Highway Blackwall	58	T25				45.70
Replaces (5) 8.55-14/2-ply (4-ply rating) Regular Highway Blackwall						
(5) 8.55-14/2-ply (4-ply rating) Regular Highway Whitewall	85	P85				35.45
(5) 8.55-14/4-ply (4-ply rating) Nylon Highway Blackwall	86	P86				18.70
(5) 8.55-14/4-ply (4-ply rating) Nylon Highway Whitewall	87	P87				54.10
(5) 8.55-14/2-ply (4-ply rating) Special Nylon Highway Blackwall	88	T04				
(5) 8.55-14/2-ply (4-ply rating) Special Nylon Highway Whitewall	89	T05				53.50
(5) 8.25-14/4-ply (8-ply rating) Special Nylon Blackwall	68	T18				30.30
(5) 8.25-14/4-ply (8-ply rating) Special Nylon Whitewall	69	T19				65.65

Ⓢ State and local taxes not included.

e—For station wagons only.

^a—15" wheels not available on Caprice series or Impala Super Sport series.



TIRES FOR CHEVROLET

FACTORY INSTALLED REGULAR PRODUCTION TIRES

Description	Ordering Column 34-35 Code	Option Number	Dealer Net	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price*
TUBE-TYPE TIRES^a						
Replaces (5) 7.75-14/2-ply (4-ply rating) Regular Highway Blackwall						
(S) 7.75-15/2-ply (4-ply rating) Regular Highway Blackwall	48	P93				\$ 7.00
(S) 7.75-15/2-ply (4-ply rating) Regular Highway Blackwall (Front) and 7.75-15/4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear & Spare)	51	P93/P97				17.30
(S) 7.75-15/2-ply (4-ply rating) Regular Highway Blackwall (Front & Spare) and 7.75-15/4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear)	50	P93/P97				13.95
(S) 7.75-15 4-ply (4-ply rating) Nylon Highway Blackwall	49	P95				23.60
(S) 7.75-15 4-ply (4-ply rating) Nylon Highway Blackwall (Front) and 7.75-15/4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear & Spare)	53	P95/P97				23.80
(S) 7.75-15/4-ply (4-ply rating) Nylon Highway Blackwall (Front & Spare) and 7.75-15/4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear)	52	P95/P97				23.70
Replaces (5) 7.75-15/2-ply (4-ply rating) Regular Highway Blackwall						
(S) 7.75-15 2-ply (4-ply rating) Regular Highway Blackwall	48	P93				3.00
(S) 7.75-15 2-ply (4-ply rating) Regular Highway Blackwall (Front) and 7.75-15 4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear & Spare)	51	P93/P97				12.90
(S) 7.75-15/2-ply (4-ply rating) Regular Highway Blackwall (Front & Spare) and 7.75-15/4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear)	50	P93/P97				9.60
(S) 7.75-15/4-ply (4-ply rating) Nylon Highway Blackwall	49	P95				19.25
(S) 7.75-15/4-ply (4-ply rating) Nylon Highway Blackwall (Front) and 7.75-15/4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear & Spare)	53	P95/P97				19.40
(S) 7.75-15/4-ply (4-ply rating) Nylon Highway Blackwall (Front & Spare) and 7.75-15/4-ply (4-ply rating) Nylon On-Off Road Blackwall (Rear)	52	P95/P97				19.35
(S) 7.75-15/4-ply (8-ply rating) Regular Highway Blackwall	59	T27				45.25

* State and local taxes not included.

^a - 15" wheels not available on Caprice series or Impala Super Sport series.



CHEVROLET POWER TEAMS

Standard and optional rear axle ratios

Engine, Transmission and Rear Axle Combinations (For Positraction see page 11)

ENGINES		TRANSMISSION	MODELS	REAR AXLE RATIOS			
Option Number	Description			Standard	Optional		
				General Purpose	Order Col-Code	Performance	Special Purpose or Mountain
Std on Series 153-155 163-167	155-hp Turbo-Thrift 250 8-Cylinder 250-cu-in displacement Single-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters	Std 3-Speed Full-Synchro	Sedans & Coupes	3.08:1	32-2 32-5	3.36:1 —	— 3.55:1
		Powerglide					
		Std 3-Speed Full-Synchro	Convertible	3.36:1	32-5	—	3.55:1
		Powerglide					
Std 3-Speed Full-Synchro	Wagons	3.55:1	—	—	—		
Powerglide							
Overdrive	All Models	3.70:1	—	—	—		
Std on Series 154-156 164-166 168	195-hp Turbo-Fire 283 8-Cylinder 283-cu-in displacement Regular camshaft 2-barrel carburetor 9.25:1 compression ratio Hydraulic valve lifters	Std 3-Speed Full-Synchro	Biscayne, Bel Air Sedans	3.08:1	32-2 32-5	3.36:1 —	— 3.55:1
		Powerglide					
		Std 3-Speed Full-Synchro	All Except Biscayne & Bel Air Sedans	3.36:1	32-5	—	3.55:1
		Powerglide					
Overdrive	All Models	3.70:1	—	—	—		
4-Speed Wide-Range	All Models	3.36:1	32-5	—	3.55:1		
L77 on Series 154-156 164-166 168	220-hp Turbo-Fire 283 8-Cylinder 283-cu-in displacement Regular camshaft 4-barrel carburetor 9.25:1 compression ratio Hydraulic valve lifters Dual exhaust	Std 3-Speed Full-Synchro	Biscayne & Bel Air Sedans	3.08:1	32-2 32-5	3.36:1 —	— 3.55:1
		Powerglide					
		Std 3-Speed Full-Synchro	All Except Biscayne & Bel Air Sedans	3.36:1	32-5	—	3.55:1
		Powerglide					
Overdrive	All Models	3.70:1	—	—	—		
4-Speed Wide-Range	All Models	3.36:1	32-5	—	3.55:1		
L30 on Series 154-156 164-166 168	275-hp Turbo-Fire 327 8-Cylinder 327-cu-in displacement Regular camshaft 4-barrel carburetor 10.5:1 compression ratio Hydraulic valve lifters Single exhaust	Std 3-Speed Full-Synchro	All Except Wagons	3.36:1	—	—	—
		4-Speed Wide-Range					
		Std 3-Speed Full-Synchro	Wagons	3.31:1	—	—	—
		4-Speed Wide-Range					
Powerglide	Wagons	3.07:1	—	—	—		
Powerglide	All Except Wagons	3.08:1	—	—	—		
L35 on Series 154-156 164-166 168	325-hp Turbo-Jet 396 8-Cylinder 396-cu-in displacement Regular camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Single exhaust	4-Speed Wide-Range	All Models	3.31:1	—	—	—
		Special 3-Speed Full-Synchro					
		Powerglide	All Models	3.07:1	32-4	3.31:1	—
		Turbo Hydra-Matic	All Models	2.73:1	32-7	3.07:1	—
L36 on Series 154-156 164-166 168	390-hp Turbo-Jet 427 8-Cylinder 427-cu-in displacement High-lift camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Dual exhaust	Special 3-Speed Full-Synchro	All Models	3.31:1	—	—	—
		4-Speed Wide-Range					
		Turbo Hydra-Matic	All Models	2.73:1	32-7	3.07:1	—
		4-Speed Close-Ratio	All Models	3.31:1	32-5 32-6	3.55:1 3.73:1	—
L72 on Series 154-156 164-166 168	425-hp Turbo-Jet 427 8-Cylinder 427-cu-in displacement Special camshaft Large 4-barrel carburetor 11.0:1 compression ratio Mechanical valve lifters Temp-controlled fan Dual exhaust	4-Speed Wide-Range	All Models	3.31:1	—	—	—
		Special 3-Speed Full-Synchro					



CHEVROLET POWER TEAMS Positraction Rear Axle Ratios

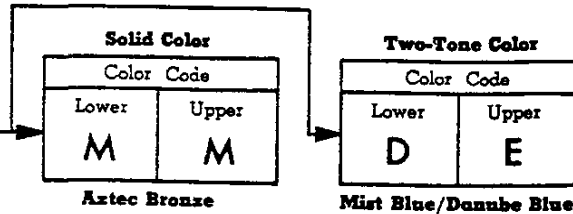
Engine, Transmission and Positraction Rear Axle Combinations

ENGINES		TRANSMISSION	MODELS	REAR AXLE RATIOS				
Option Number	Description			Order Col-Code	General Purpose	Performance	Special Purpose or Mountain	High Performance
Std on Series 153-155 163-167	155-hp Turbo-Thrift 250 6-Cylinder 250-cu-in displacement Single-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters	Std 3-Speed Full-Synchro	Sedans & Coupes	31-1	3.08:1	—	—	—
		Powerglide		31-1/32-2 31-1/32-5	—	3.36:1	—	3.55:1
		Std 3-Speed Full-Synchro	Convertible	31-1	3.36:1	—	—	—
		Powerglide		31-1/32-5	—	—	3.55:1	—
Std 3-Speed Full-Synchro	Wagons	31-1	3.55:1	—	—	—		
Powerglide		31-1	3.70:1	—	—	—		
Std on Series 154-156 164-166 168	195-hp Turbo-Fire 283 8-Cylinder 283-cu-in displacement Regular camshaft 2-barrel carburetor 9.25:1 compression ratio Hydraulic valve lifters Single exhaust	Std 3-Speed Full-Synchro	Biscayne & Bel Air Sedans	31-1	3.08:1	—	—	—
		Powerglide		31-1/32-2 31-1/32-5	—	3.36:1	—	3.55:1
		Std 3-Speed Full-Synchro	All Except Biscayne & Bel Air Sedans	31-1	3.36:1	—	—	—
		Powerglide		31-1/32-5	—	—	3.55:1	—
Overdrive	All Models	31-1	3.70:1	—	—	—		
4-Speed Wide-Range	All Models	31-1 31-1/32-5	3.36:1	—	—	3.55:1	—	
L77 on Series 154-156 164-166 168	220-hp Turbo-Fire 283 8-Cylinder 283-cu-in displacement Regular camshaft 4-barrel carburetor 9.25:1 compression ratio Hydraulic valve lifters Dual exhaust	Std 3-Speed Full-Synchro	Biscayne & Bel Air Sedans	31-1	3.08:1	—	—	—
		Powerglide		31-1/32-2 31-1/32-5	—	3.36:1	—	3.55:1
		Std 3-Speed Full-Synchro	All Except Biscayne & Bel Air Sedans	31-1	3.36:1	—	—	—
		Powerglide		31-1/32-5	—	—	3.55:1	—
Overdrive	All Models	31-1	3.70:1	—	—	—		
4-Speed Wide-Range	All Models	31-1 31-1/32-5	3.36:1	—	—	3.55:1	—	
L30 on Series 154-156 164-166 168	275-hp Turbo-Fire 327 8-Cylinder 327-cu-in displacement Regular camshaft 4-barrel carburetor 10.5:1 compression ratio Hydraulic valve lifters Single exhaust	Std 3-Speed Full-Synchro	All Except Wagons	31-1	3.36:1	—	—	—
		4-Speed Wide-Range		31-1	—	—	—	—
		Std 3-Speed Full-Synchro	Wagons	31-1	3.31:1	—	—	—
		4-Speed Wide-Range		31-1	3.07:1	—	—	
Powerglide	All Except Wagons	31-1	3.08:1	—	—	—		
L35 on Series 154-156 164-166 168	325-hp Turbo-Jet 396 8-Cylinder 396-cu-in displacement Regular camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Single exhaust	4-Speed Wide-Range	All Models	31-1	3.31:1	—	—	—
		Special 3-Speed Full-Synchro		31-1	3.07:1	—	—	
		Powerglide	All Models	31-1/32-4	—	3.31:1	—	—
		Turbo Hydra-Matic	All Models	31-1 31-1/32-7	2.73:1	—	3.07:1	—
L36 on Series 154-156 164-166 168	390-hp Turbo-Jet 427 8-Cylinder 427-cu-in displacement High-lift camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Dual exhaust	Special 3-Speed Full-Synchro	All Models	31-1	3.31:1	—	—	—
		4-Speed Wide-Range		31-1	—	—	—	
		Turbo Hydra-Matic	All Models	31-1 31-1/32-7	2.73:1	—	3.07:1	—
		4-Speed Wide-Range	All Models	31-1 31-1/32-5 31-1/32-6 31-2 31-3 31-4	3.31:1	—	3.55:1 3.73:1	— — — — — —
L72 on Series 154-156 164-166 168	425-hp Turbo-Jet 427 8-Cylinder 427-cu-in displacement Special camshaft Large 4-barrel carburetor 11.0:1 compression ratio Mechanical valve lifters Temp-controlled fan Dual exhaust	4-Speed Close-Ratio	All Models	31-1	3.31:1	—	—	—
		4-Speed Wide-Range		31-1	3.31:1	—	—	—
Special 3-Speed Full-Synchro	All Models	31-1	3.31:1	—	—	—		



CHEVROLET

Important Information Concerning Ordering Interior Trim and Exterior Colors



Explanation of Exterior Color Identification	All exterior paints will continue to be identified by indicating lower body color and upper body color by alphabetical color codes.
	All color codes are double letters. The first code letter is the lower body color. The second code letter is the upper body color. For solid color the same code is used for both the lower color and the upper color (see sample above).
Explanation of Interior Trim Identification	Ordering codes remain single alphabetical letters (SEE CHARTS ON FOLLOWING PAGES). Trim option numbers are for invoicing only to denote color of trim.

PLEASE GIVE SPECIAL ATTENTION TO THE FOLLOWING

Exterior color/interior trim color combinations have been expanded as shown in the Color & Trim charts. Please note that these expanded combinations are termed "acceptable" rather than "recommended." Prior to ordering any of the "acceptable" combinations, both dealer and customer should be fully aware of the appearance of such combinations.

Recommended combination Acceptable combination Not available

SERIES	REMARKS
CAPRICE	<p>Seats for Custom Coupe and Custom Sedan: Standard front seat is full-width type cloth on Custom Coupe and Custom Sedan models—3 interiors—Fawn—Blue—Black Optional Strato-Back Cloth—Full-Width Front Seat (RPO A53) is available on Custom Coupe and Custom Sedan models—3 interiors—Fawn—Blue—Black Optional Strato-Bucket Vinyl Front Seats (RPO A51) are available on Custom Coupe model only—6 interiors—Fawn, Turquoise, Red, Blue, Black and Bronze. Center console and special instrumentation is included. Optional Bucket or Bench Seats must be indicated separately on order form.</p> <p>Two-Tone exterior paint not available. Marina Blue and Chateau Slate exterior colors are not available on Custom Wagons. Two-Tone appearance may be obtained on Custom Coupe and Custom Sedan by ordering optional black or beige vinyl roof cover, RPO C08, which is available with all solid colors.</p>
IMPALA SUPER SPORT	<p>Bucket Seats and center console are standard equipment. Special instrumentation is a separate option (RPO D59). White/Black, Bright Blue and Red interiors not available with Two-Tone exterior paint. White/Black trim: Carpet, instrument panel and steering wheel are black. In addition to Two-Tone paint, Two-Tone appearance may be obtained on Sport Coupe models by ordering optional black or beige vinyl roof cover (RPO C08), which is available with all exterior solid colors. Convertible Top colors: Black, Beige or White. Each is available with all exterior solid colors.</p>
IMPALA	<p>Black Vinyl trim: May be ordered in lieu of black cloth trim as optional equipment on Sport Sedan and Sport Coupe models. Convertible Top colors: Black, Beige or White. Each is available with all exterior solid colors. Red interior not available with Two-Tone exterior. In addition to Two-Tone paint, Two-Tone appearance may be obtained on Sport Coupe and Sport Sedan by ordering optional black or beige vinyl roof cover (RPO C08), which is available with all solid colors.</p>
BEL AIR	<p>Madeira Maroon/Tuxedo Black, Chateau Slate/Tuxedo Black and Willow Green/Ermine White Two-Tone exterior combinations are not available. Red interior not available with Two-Tone exterior. All-vinyl interior on Station Wagon models.</p>
BISCAYNE	<p>Ermine White/Artesian Turquoise, Tropic Turquoise/Ermine White, Willow Green/Ermine White, Madeira Maroon/Tuxedo Black, and Chateau Slate/Tuxedo Black Two-Tone exterior combinations are not available. Red interior not available with Two-Tone exterior. Optional Fawn Vinyl interior available on Sedans only at extra cost.</p>



CHEVROLET CAPRICE COLOR & TRIM CHART

INTERIOR TRIM CODES		EXTERIOR COLORS																								
The following code must be shown on the order form for the desired interior trim. B—BLUE D—RED E—BLACK F—FAWN G—GREEN T—TURQUOISE Z—BRONZE		Solid															Two-Tone									
		Tuxedo Black	Ermine White	Mist Blue (Med)	Danube Blue (Dk)	Marina Blue (Brt)	Willow Green (Med)	Artesian Turquoise (Med)	Tropic Turquoise (Dk)	Aztec Bronze	Madeira Maroon	Regal Red	Sandalwood Tan	Cameo Beige	Chateau Slate	Lemonwood Yellow	Ermine White/Artesian Turq	Mist Blue/Ermine White	Mist Blue/Danube Blue	Willow Green/Ermine White	Tropic Turq/Ermine White	Madeira Maroon/Tuxedo Black	Sandalwood Tan/Cameo Beige	Chateau Slate/Tuxedo Black		
MODELS	Int. Trim & RPO	Exterior Code	AA	CC	DD	EE	FF	HH	KK	LL	MM	NN	RR	TT	VV	WW	YY	CK	DC	DE	HC	LC	NA	TV	WA	
16647 Custom Coupe 16639 Custom Sedan Std Front Bench Seat	CLOTH	Fawn	857	F	F			F	F	F	F	F		F	F			F								
		Blue	843	B	B	B	B	B											B							
		Black	817	E	E	E	E	E	E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
16647 Custom Coupe With Opt Vinyl Bucket ★RPO A51	VINYL	Fawn	856	F	F			F	F	F	F	F		F	F			F								
		Blue	831	B	B	B	B	B											B							
		Black	815	E	E	E	E	E	E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Turquoise	848	T	T					T	T														T	
		Red	879	D	D									D	D											
	Bronze	891	Z	Z							Z					Z										
16647 Custom Coupe 16639 Custom Sedan With Opt Front Strato-Back Seat ★RPO A53	CLOTH	Fawn	868	F	F			F	F	F	F	F		F	F			F								
		Blue	834	B	B	B	B	B											B							
		Black	818	E	E	E	E	E	E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
16635 4-Door 2-Seat Custom Wagon 16645 4-Door 3-Seat Custom Wagon	VINYL	Fawn	859	F	F	F	F		F	F	F	F		F	F			F								
		Blue	836	B	B	B	B																			
		Black	814	E	E	E	E		E	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
		Turquoise	847	T	T					T	T														T	
		Red	871	D	D									D	D											
	Green	829	G	G				G																G		

NO TWO-TONE COMBINATIONS OFFERED FOR THESE MODELS

★Optional Strato-Type Seats (Bench or Bucket) must be specified separately on order form. See page 5 for ordering code and description.

- Recommended combination
- Acceptable combination
- Not available



.

.

.



AMA Specifications—Passenger Car

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

MANUFACTURER 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:

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.

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.			
	250 Cu. In. L6-155 HP Standard	283 Cu. In.		327 Cu. In.
		V8-195 HP Std.	V8-220 HP RPO L-77	V8-275HP RPO L30
BISCAYNE				
2-Door Sedan 6-Passenger	15311		15411	
4-Door Station Wagon 2-Seat	15335		15435	
4-Door Sedan 6-Passenger	15369		15469	
BEL AIR				
2-Door Sedan 6-Passenger	15511		15611	
4-Door Station Wagon 2-Seat	15535		15635	
4-Door Station Wagon 3-Seat	15545		15645	
4-Door Sedan 6-Passenger	15569		15669	
IMPALA				
4-Door Station Wagon 2-Seat	16335		16435	
2-Door Sport Coupe 5-Passenger	16337		16437	
4-Door Sport Sedan 6-Passenger	16339		16439	
4-Door Station Wagon 3-Seat	16345		16445	
2-Door Convertible 5-Passenger	16367		16467	
4-Door Sedan 6-Passenger	16369		16469	
IMPALA SUPER SPORT				
2-Door Sport Coupe 4-Passenger	16737		16837	
2-Door Convertible 4-Passenger	16767		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	Additional Information Page No.:	15300-500 16300-700 250 Cu. In. L6 Std.		15400-600, 16400-600, 16800 283 Cu. In. V-8 Standard/RPO L77			327 Cu. In. V-8 RPO L30
		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 trade name - opt., not available)	Manual - 3 speed	15	Standard				
	Manual - 4 speed	15	N. A.		Optional		
	Overdrive	15	Optional				N. A.
	Automatic	16	Powerglide - Optional				
Axle ratio	Manual - 3 speed	17	Cps. & Sed 3.08 Convertible 3.36 Sta. Wag. 3.55	15400-600 Sedans 3.08 All other Models 3.36		All Exc. S.W. 3.36 St. Wag. 3.31	
	Manual - 4 speed	17	N. A.		3.36:1		Same as 3-Speed
	Overdrive	17	3.70				N. A.
	Automatic	17	Same as 3-Speed				All Except S.W. 3.08 St. Wag. 3.07
Tire size		18	7.35 x 14 (a)	7.75 x 14 (b)	8.55 x 14 (c)		
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	3.875 x 3.53		3.875 x 3.00		4.001 x 3.25
	Piston displ., cu. in.	3	250		283		327
	Std. compression ratio	3	8.5:1		9.25:1		10.5:1
	Max. bhp at engine rpm	3	155 @ 4200	195 @ 4800	220 @ 4800	275 @ 4800	
	Max. torque at rpm	3	235 @ 1600	285 @ 2400	295 @ 3200	355 @ 3200	

(a) 250 Cu. In. 6-cyl. Biscayne, 2 and 4-door sedans, Bel Air 2-Door sedans.

(b) 283 and 327 V-8 models except wagons.

(c) All Station Wagons.

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	Sp. Coupes		Convert.	St. Wagons
		2-Dr.	4-Dr.	Sedans	37	47		

FRONT COMPARTMENT

Shoulder room	W3	62.3		62.4		62.3	
Kip room	W5	63.9	63.7		63.9		63.9
Max. eff. leg room - accelerator	L34	42.2		42.3	42.0	42.1	
Effective head room	H61	39.1	38.1	38.2	37.6	38.8	39.2
Point to Heel point	H30	9.0		9.2	9.4	9.3	9.2

REAR COMPARTMENT

Shoulder room	W4	60.7	61.3		61.0	53.1	61.4
Kip room	W6	62.2	62.9	63.0	55.5		63.2
Minimum effective leg room	L51	38.9	39.5	38.5	34.9	36.3	34.9
Effective head room	H63	37.8	37.3		37.2	37.4	37.8

LUGGAGE COMPARTMENT

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

STATION WAGON—THIRD SEAT

Kip 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.	153-154-155-156-163-164-16635, 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 ^(a)	
	15300-500, 16300-700			15400-600, 16400-600, 16800			
	250 cu in L6 Standard			283 cu in V-8			327 cu in V-8
MODEL				Standard	RPO L77		RPO L30

ENGINE—GENERAL

Type, no. cyls., valve arr.	In-line 6 OHV		90° OHV V-8	
Bore and stroke (nominal)	3.875 x 3.53		3.875 x 3.00 4.00 x 3.25	
Piston displacement, cu. in.	250		283 327	
Bore spacing (C/L to C/L)	4.40		4.40	
No. system (front to rear)	L. Bank	1-2-3-4-5-6		1-3-5-7
	R. Bank	(In-line)		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 10.5:1	
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	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	36.0	48.0	51.2
Publishing max. bhp* @ eng. RPM	155 @ 4200	210 @ 4800	220 @ 4800	275 @ 4800
Publishing max. torque* (lb. ft. @ RPM)	235 @ 1600	290 @ 3200	295 @ 3200	355 @ 3200
Recommended fuel regular - premium	Regular			Premium
Idle speed (spec. neutral or drive)	Manual	500 in neutral		
	Automatic	500 in drive	475 in drive	

ENGINE—PISTONS

Material	Cast aluminum alloy			
Description and finish	Flat, notched head, slipper skirt			
Weight (piston only) oz.	20.80	20.30	21.60	
Clearance (limits)	Top land	.0345-.0435		.0365-.0455
	Skirt	Top	.0005-.0011 (a)	
		Bottom	.0005-.0011 (b)	
Ring groove depth	No. 1 ring	.2153-.2218		.2217-.2283
	No. 2 ring	.2153-.2218		.2217-.2283
	No. 3 ring	.2093-.2158		.2038-.2103
	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 2.44 from top of piston

(b) Measured at 2.24 from top of piston

AMA Specifications—Passenger Car

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

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	"A"	"B"	"C"	"D"
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		AXLE RATIO (Std. first) (Indicate A/C ratio)			
15300 15500 16300 16700	250	1-Bbl Down-draft	8.5:1	155 @ 4200	235 @ 1600	3-Spd & Pwr/Gld.*	3.08	3.55	3.36	3.36
Coupes & Sedans										
Convertibles										
Station Wagons										
Overdrive *										
All models	3.70	-	-	3.70						
15400 15600 16400 16600 16800	283	2-Bbl Down-draft 4-Bbl* Down-draft	9.25:1	195 @ 4800 220 @ 4800	285 @ 2400 295 @ 3200	3-Spd & Pwr/Gld*	3.08	3.55	3.36	3.36
15400-600 Sedans										
All other models										
Overdrive *										
All models						3.70				
4-Speed *	3.36	-	-	3.36						
All models										
* 327	Quadra-Jet or 4-Bbl Down-draft	10.5:1	275 @ 4800	355 @ 3200	3-Spd - 4-Spd*	3.36	-	-	3.36	
All except St. Wag										
Station Wagons										
POWERGLIDE *										
All except St. Wag					3.08					-	-	3.36
Station Wagons	3.07	-	-	3.31						
<p>A - General Purpose (Standard)</p> <p>B - Special Purpose or Mountain (Optional)</p> <p>C - Performance (Optional)</p> <p>D - Air Conditioning</p> <p># - Positraction Axle Ratios available in combinations as shown</p> <p>* - Optional</p>										

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED ^(a)
MODEL	15300-500, 16300-700 250 cu in L6 Std.	15400-600, 16400-600, 283 Cu. In. V-8 Standard	16800 327 Cu. In. V-8 RPO L77	RPO L30		

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression	
	No. 2, oil or comp.	Compression	
	No. 3, oil or comp.	Oil	
	No. 4, oil or comp.	None	
Compression	Description - Upper material, coating, etc.	Cast alloy iron, chrome plate	
	Lower	Cast alloy iron; wear resistant coating	(a)
	Width	.0620-.0625	.0775-.0780
	Gap	.010-.020	.013-.023
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Spacer expander-steel Rails-Stainless steel chrome plated O. D.	
	Width	.1840-.1880 (assembled)	
	Gap	.015-.025	.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 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	Premium aluminum
	Overall length	.807	
	Clearance (limits)	.0007-.0027	
	End play	.009-.013	

(a) Two piece; Cast alloy ring and steel expander.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET	MODEL YEAR 1966	DATE ISSUED 10-7-65 REVISED ^(a)
MODEL	15300-500, 16300-700 250 cu in L6 Std.	15400-600, 16400-600, 16800 283 Cu. In. V-8 Standard | RPO L77
		327 Cu. In. V-8 RPO L30

ENGINE—CRANKSHAFT

Material	Cst. Nodl. Iron	Nodular Iron or forged steel	Forged steel		
Vibration damper type	Rubber mounted inertia (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		Prem. alum. exc. no. 5 sintered cop.	
	Clearance	.0003-.0029	*1-4).0003-.0029; (#5).0008-.0034 (b)		
	Journal dia. and bearing overall length	No. 1	2.3004 x .752	2.3008 x .752	2.3013 x .752
		No. 2	2.3004 x .752	2.3004 x .752	2.3009 x .752
		No. 3	2.3004 x .752	2.3004 x .752	2.3009 x .752
		No. 4	2.3004 x .752	2.3004 x .752	2.3009 x .752
		No. 5	2.3004 x .752	2.3004 x 1.177	2.3006 x 1.1824
		No. 6	2.3004 x .752	None	
No. 7		2.3004 x .752	None		
Dir. & amt. cyl. offset	None				
Crankpin journal diameter	1.999-2.000				

ENGINE—CAMSHAFT

		Above and to		
Location	right of Crk/shft	In block above crankshaft		
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 & Fabric with stl. 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	1.50:1	
Operating tappet clearance (indicate hot or cold)	Intake	Zero	
	Exhaust	Zero	
Timing marks on flywheel, damper, other	Torsional Damper		

(a) Not used with forged steel on 283 Cu. In.
 (b) (#1-4) .008-.0034; (#5) .0010-.0036

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(*)
 MODEL 15300-500, 16300-700, 250 Cu In L6 Std. 15400-600, 16400-600, 16800, 283 Cu In V-8 Standard | RPO L77 | 327 Cu In V-8 RPO L30

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	4.870-4.889
	Actual overall head dia.		1.715-1.725	1.935-1.945
	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)		.3880	.3987
	Outer spring press. and length	Valve closed (lb. @ in.)	56-64 @ 1.66	78-86 @ 1.66
		Valve open (lb. @ in.)	180-192 @ 1.27	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	High alloy steel-aluminized face
	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)		.3880	.3987
	Outer spring press. and length	Valve closed (lb. @ in.)	56-64 @ 1.66	78-86 @ 1.66
		Valve open (lb. @ in.)	180-192 @ 1.27	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	Centrifugally oiled from frt. cmsht. brng.	
	Cylinder walls	Con. rod brng throw-off	Pressure jet cross sprayed	

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED (a)
MODEL	15300-500, 16300-700 250 cu in L6 Std.	15400-600, 16400-600, 16800 283 cu in V-8 Standard	RPC L77	327 cu in V-8 RPO L30		

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 - - - SAE 20W SAE 20, SAE 10W-30 0°F and above - - - SAE 10W SAE 10W-30 Below 0°F - - - SAE 5W, SAE 5W-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	Single with crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow		Two, with Resonators	One with resonator
Exhaust pipe dia. (O.D., wall thickness)	Branch 2.0 x .057-.071	2.0x.073-.091(a)	2.50 x .073-.091 (a)	2.0x.073-.091(a)
Tail pipe diameter (O.D. & wall thickness)	1.875 x .062-.076		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	Rr rocker cvr.	At rear of carburetor
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
Complete system	Control method (variable orifice, fixed orifice, other)	Variable	
	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
	Air inlet (breather cap, carburetor air cleaner, other)	Breather cap	
	Flame arrester (screen, check valve, other)	Check valve	

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

(a) Laminated

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED (*)
MODEL	15300-500 16300-700 250 cu in L6 Std.	15400-600, 16800 283 Cu In V-8 Standard	RPO-L77	327 Cu In V-8 RPO L30		

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 (b)	3880861	7036101	7036119	7036203	
	Barrel size	1.56	1.44	1.44 Pr & Sec	1.38(P);2.25(S)	
	Idle speed	Drive	600 for Automatic Transmission			
	Neutral	700 for Manual Transmission				
Aux. Adv. Systems (type)						
Make		Delco-Remy				
Model		1110351	1111150	1111152		
Distributor	Cent'gal adv. in crank degrees @ eng. rpm.	Start (rpm)	900			
		Intermed. points deg. @ rpm				
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in Hg)	6"	8"		
		Intermed. points deg. @ in. Hg				
	Max. deg. @ rpm.	28 @ 2800	28 @ 4200	26 @ 4100		
	Max. deg. @ in.	21 @ 14.5"	15 @ 15.5"			
Vacuum Source						
Timing - Crank degrees @ rpm		6° @ 700	4° BTDC @ 700	8° BTDC @ 700		
Cooling System (describe changes)		Radiator Fan Shroud added				
Exhaust System (describe changes)		L6-250 Muffler-Stainless steel used on shell and Baffles No. 3 & 4				

(a) - Two check valves used on all V-8 Engines

(b) - Powerglide Models: - 250 Cu In (3880860); 283 Cu In Std (7036110)
283 Cu In RPO L77 (7036118); 327 Cu In L30 (7036202)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET	MODEL YEAR 1966	DATE ISSUED 10-7-65	REVISED (a)
MODEL	15300-500, 16300-700 250 cu in L6 Std.	15400-600, 16800 283 cu in V-8 Standard	327 cu in V-8 RPO L77 RPO L30

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 Station Wagons) approximately
Fuel Tank	Filler location	Behind hinged rear license plate (a)
Fuel Pump	Type (elec. or mech.)	Mechanical
Fuel Pump	Locations	Lower right front of engine
Fuel Pump	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
Fuel Filter	Locations	and sintered bronze filter in carburetor inlet
Carburetor	Choke type	Automatic
Carburetor	Intake manifold heat control (exhaust or water)	(Oil-wetted Exhaust)
Carburetor	Air cleaner type	Standard polyurethane Oil-wetted paper
Carburetor	Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size			
			Make	Model					
15300 15500 16300 16700	250	3-Speed Powerglide	Rochester	7026027	One; Single Barrel	1.56			
Rochester			7026028						
15400 15600 16400 16600 16800		283	3-Speed 4-Speed Powerglide	Rochester			7024101	One; two Barrel	1.44
				Rochester			7024101		
	Rochester			7024110					
	327	3-Speed 4-Speed	Holley Carter	3876747(b)	3876749(b)	One; Four Barrel	1.562 Primary & Secondary		
				Rochester				7026203(b)	
		Powerglide	Holley Carter	3875964(c)	3875966(c)			One; Four Barrel	1.562 Prim. & Secondary
Rochester				7026202(c)					
		(b) - Optional (c) - Optional							

(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 (00)		
MODEL	15300-500, 16300-700 250 cu in L6 Std.	15400-600, 16400-600, 16800 283 cu in V-8 Standard	RPO-L77	327 cu in V-8 RPO-L30

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure			
Radiator cap relief valve pressure		15± 1 PSI			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at (°F)	177°-183° F			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM @ 1000 pump rpm	60 @ 4400	54 @ 4400	57 @ 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.)	13	17	15	
	Without heater (qt.)	12	16	14	
	Opt. equipment-specify (qt.)	14	18	16	
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)	None		
		Inside diameter	None		
Fan	Number of blades & spacing		4, staggered		
	Diameter		17.62		
	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	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)	39.00	49.50	54.75	53.25	35.00	57.50					
Width			.380								

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET	MODEL YEAR 1966	DATE ISSUED 10-7-65 REVISED ^(*)
MODEL	15300-500, 16300-700 250 cu in L6 Std.	15400-600, 16400-600, 16800 283 cu in V-8 Standard | RPO L77 | 327 cu in V-8 RPO L30

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1983504	1983506
	Voltage Rtg. & Total Plates		12 Volt - 54 Plates	12 Vlt. - 66 Plt.
	SAE Designation & Amp Hr. Rtg.		44 Amp. Hr @ 20 Hr-rate	61 Amp@20 Hr.
	Location		Right front engine compartment	
Terminal grounded		Negative		
Generator or Alternator	Make		Delco-Remy	
	Model		1100693	
	Type and rating		Diode rectified 9-37 Amps	
	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		
	Regu- lated	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		1107374	1107247 | 1107320
	Rotation (drive end view)		Clockwise	
	Engine cranking speed			
	Test conditions		Engine at operating temperature	
	No load test	Amps	49-76	65-100
		Volts	10-6	10.6
RPM (min)		6200-9400	3600-5100	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		<p>3-Spd & 4-Spd-Place gearshift lever in neutral & depress clutch to floor</p> <p>Powerglide- Place control lever in N or P position</p> <p>Initial Start- Press accelerator pedal to floor once to set automatic choke, then release. Turn ignition to START-release as soon as engine starts.</p>	

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET	MODEL YEAR 1966	DATE ISSUED 10-7-65 REVISED (0)	
	15300-500, 16300-700	15400-600, 16400-600, 16800 283 cu in V-8	327 cu in V8
MODEL	250 cu in L6 Std.	Standard | RPO L77	RPO L30

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.		N. A.		
	Make		Delco-Remy		
	Model		1115208	1115204	
	Amps	Engine stopped	4.0		
Engine idling		1-8			
Distributor	Make		Delco-Remy		
	Model		1110351	1111150	1111152
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	900	900	900
		Intermediate points deg. @ rpm.			
		Max. deg. @ rpm.	28° @ 2800	28° @ 4200	26° @ 4100
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6	8	8
		Intermediate points, deg. @ in. Hg.			
		Max. deg. in. Hg.	21 @ 14.5	15 @ 15.5	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.		6°±1° @ 500	4°±1° @ 500	8°±1° @ 550
	Mark location		Torsional Damper		
Spark Plug	Make		AC Spark Plug		
	Model		AC-46N	AC 45	AC 44
	Thread (mm)		14		
	Tightening torque (lb. ft.)		25		
	Gap		.033-.038		
Cable	Conductor type		Linen core impregnated with electrical conducting material		
	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** ^(*)

MODEL _____

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional with V-8 engines only
Manual with overdrive (std. or opt.)	Optional with L6-250 Cu In & V8-283 Cu In only
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

		3-Speed		4-Speed		
		L6-250 & V8-283	V8-327	V8-283	V8-327	
Number of forward speeds		3		4		
Transmission ratios	In first	2.85	2.54	3.11	2.54	
	In second	1.68	1.50	2.20	1.80	
	In third	1.00	1.00	1.47	1.32	
	In fourth	-	-	1.00	1.00	
	In reverse	2.95	2.63	3.11	2.54	
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; acceleration, 1440; deceleration, 1100	
Gear ratio		.7	
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	

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED (a)
MODEL	250 Cu In L-6 3-Spd & OD | RPO M01*	15400-600, 16400-600, 16800 283 Cu In V-8	3-Spd & OD	4-Spd & Z04*	327 Cu In	3-Spd & 4-Spd

ELECTRICAL—SUPPRESSION

Locations & type	Non-Metallic High Ignition Cables
------------------	-----------------------------------

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	AC
	Trip odometer (yes, no)	NA
Charge indicator—type		Tell-Tale (b)
Temperature indicator—type		Tell-tale (red, hot; green, cold) (b)
Oil pressure indicator—type		Tell-tale (b)
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)	8:00-110 @ 12.5 V

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Chevrolet, single dry disc	Single dry disc centrifugal
Type pressure plate springs	Diaphragm	Diaphragm bent finger design
Total spring load (lb.)	1500-1800	1700-1950 2100-2300
No. of clutch driven discs	One	
Clutch facing	Material	Woven type asbestos (a)
	Outside & inside dia.	9.12 & 6.12 | 11.0 & 6.5 | 10.0 & 6.5
	Total eff. area (sq. in.)	71.8 | 123.7 | 90.7
	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) RPO-M01 has woven type front and molded type rear facings
- (b) 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 ^(a)
 MODEL _____ 15300-500, 16300-700 | 15400-600, 16400-600, 16800
 _____ 250 Cu In L-6 | 283 Cu In V-8 | 327 Cu In V-8

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Powerglide		
Type describe	Torque convertor with planetary gears		
Method of Selection (Lever, Push Button or other)	Lever, steering column mounted; Floor mounted when used with optional bucket seats on 16300, 16400 & 16600		
Selector Pattern	P-R-N-D-L		
List gear ratios Selector Pattern and indicate which are used in each selector position	Drive 1.82 & 1.0 L & R - 1.82	Drive 1.76 & 1.0 L & R - 1.76	
Max. upshift speeds—drive range	53	59	58
Max. kickdown speeds—drive range	49	55	59
Torque convertor	Number of elements		
	3		
	Max. ratio at stall		
			2.10:1
			Water
Lubricant	Capacity—refill (pt.)		
	3		
			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	NA	Same as 3-Speed
	Overdrive transmission	Same as 3-Speed	NA
	Automatic transmission	Same as 3-Speed	

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

(Continued)

(a) Oil cooler equipment available optionally

AMA Specifications—Passenger Car

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

MODEL _____

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)		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	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)	3.08, 3.07, 3.36, 3.70, 8.135; 3.55, 8.875; 3.31, 8.875		
Pinion adjustment (shim, other)	None		
Pinion bearing adj. (shim, other)	Shim		
Wheel bearing type	Single row cylindrical roller		
Lubricant	Capacity (pt.)	8.125 Ring Gear, 3.5: 8.875 Ring Gear, 4.0	
	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	3.55	3.70	3.07	3.31
No. of teeth	Pinion	12	11	11	10	14	13
	Ring gear	37	37	39	37	43	43

AMA Specifications—Passenger Car

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

MODEL _____

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	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	7.35 x 14-4(a)	7.75 x 14-4(b)	8.55 x 14-4(a)
	Type - Nylon, etc.	Rayon		
Rev/mile at 50 mph.		803	779	743
Inflation press. (cold)	Front	24		
	Rear	24 except wagons 28		
Optional tires - size and ply		7.35 x 14.4	7.75 x 15-4 & 8	
		7.75 x 14-4 & 8	8.15 x 15 -4	
		8.25 x 14-4 & 8	8.55 x 14-4 & 8	

BRAKES—SERVICE

		Standard	(Metallic (optional))
Type (duo-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	11.0	
		11.0	
Type and material		Composite; Rim, Cast Iron; Web, Steel	
Rotor (vented or solid)		---	
No. pistons per caliper		---	
Wheel cylinder 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.

(a) 250 cu. in. 6-cyl. Biscayne 2 & 4 door sedans and Bel Air 2-Door sedans

(b) 283 & 327 V-8 models except wagons

(c) All station wagons.

(Continued)

AMA Specifications—Passenger Car

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

MODEL _____

BRAKES—SERVICE (cont.)				Standard	Optional	
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 out-board	9.25 x 2.75 x .168		1.64 x 1.37 x .175
			Second. or in-board	9.25 x 2.00 x .168		2.00 x 1.00 x .175
		Segments per shoe		1		1
	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
			Second. or in-board	11.63 x 2.00 x .168		2.00 x 1.00 x .295
		Segments per shoe		One		Front 12; Rear 10

BRAKES—PARKING

Type of control	Foot pedal apply "T" handle release	
Location of control	Left of steer. column, under instru. panel	
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 axle upper control arm crossmember, rear shock absorber crossmember, and a rear crossmember. Welded box-construct ion side rails from front crossmember to aft of rear axle kicku
---------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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.)	24.8	
		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	24:1	
	No. wheel turns	Gear	28.2:1	
Overall		5.42 (lock to lock)		

(Continued)

AMA Specifications—Passenger Car

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

MODEL _____

STEERING (cont.)

Power	Type (coaxial, linkage, etc.)		Coaxial	
	Make		Saginaw	
	Gear	Type		Same as manual
		Ratios	Gear Overall	17.5:1 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 at 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 ^(*)

MODEL	250 L-6	283 V-8	327 V-8
--------------	---------	---------	---------

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 acc. 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	Direct, double-acting, hydraulic
	Make	Delco
	Piston dia.	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, 3.80 113.4 x .641	11.76, 3.80 126.5 x .614
	Spring rate (lb. per in.)	390	290
	Rate at wheel (lb. per in.)	132	104
Stabilizer	Type (link, linkless, frameless)	Link (a)	
	Material & bar diameter	HR steel; exc. wags. .8125; wagons .9375	

SUSPENSION—REAR

Type and description	(b)		
Drive and 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; 126.9 x .621	12.37, 4.00 126.2 x .597
	Spring rate (lb. per in.)	265	230
	Rate at wheel (lb. per in.)	124.5	108.6
	Mounting insulation type	None	
	If leaf	No. of leaves	--
Stabilizer	Type (link, linkless, frameless)	None	
	Material	--	
Track bar type	Lateral, Frame to Rear Axle		

(a) Not available on Bel Air & Biscayne 6-cyl. 2 and 4-door sedans.

(b) 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 ^(a)

MODEL	Sedans	Sport Sedans	Sport Coupes	Convert.	Station Wagons
	2-Dr.	4-Dr.			

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 Ident. 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
Backlight glass exposed surface area	1173.5	1213.6
Total glass exposed surface area	3987.8	4005.3

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 155-156-163-164-16600. *	
Reclining front seat back	NA	
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 -- 1500 Standard 1600	
Air Conditioner (specify type and availability)	Optional -- four season and automatic temperature 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

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

WEIGHTS

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT	
	Front	Rear	Total	Pass. In Front		Pass. In Rear		250	283
				Front	Rear	Front	Rear		
Biscayne									
15311	15411	3460	3605	30	70			3310	3445
15335	15435	3940	4080	30	70			3770	3895
15369	15469	3520	3670	30	70			3375	3510
Bel Air									
15511	15611	3460	3600	30	70			3315	3445
15535	15635	3940	4080	30	70			3770	3895
15545	15645	3990	4125	22	78			3815	3990
15569	15669	3530	3685	30	70			3390	3525
Impala									
16335	16435	3975	4110	30	70			3805	3930
16337	16437	3575	3735	37	63			3430	3555
16339	16439	3670	3805	30	70			3525	3650
16345	16445	4035	4170	22	78			3860	3985
16367	16467	3630	3780	37	63			3485	3610
16369	16469	3585	3725	30	70			3435	3565
Caprice									
16635		-	4150	30	70			-	3970
16639		-	3830	30	70			-	3675
16645		-	4200	22	78			-	4020
16647		-	3740	37	63			-	3585
Impala Super Sport									
16737	16837	3605	3745	37	63			3460	3585
16767	16867	3655	3785	37	63			3505	3630
Accessories & Equipment Differential Weights		250	283	327	Remarks				
Air Conditioning		+122	+120	+110					
Brakes, Power		+7	+7	+7					
Heater, Delete		-22	-22	-22					
Radio, Push Button		+7	+7	+7					
Radio, Push Button AM-FM		+10	+10	+10					
Steering, Power		+31	+31	+29					
Transmission, Overdrive		+27	+27	--					
Transmission, Powerglide		+16	+19	+23					
Transmissior, 4-Speed		--	+6	+4					
327 V-8		--	--	+45					

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		

orig 66 Impala

AMA Specifications—Passenger Car

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

MANUFACTURER	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:

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.

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—DIMENSIONS

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

MODEL	SAE Ref. No.	Sedans		Sport	Sp. Coupes		Convert.	St. Wagons
		2-Dr.	4-Dr.	Sedans	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	42.1	
Effective head room	H61	39.1	38.1	38.2	37.6	38.8	39.2
H Point to Heel point	H30	9.0		9.2	9.4	9.3	9.2

REAR COMPARTMENT

Shoulder room	W4	60.7	61.3		61.0	53.1		61.4
Hip room	W6	62.2	62.9	63.0	55.5		63.2	
Minimum effective leg room	L51	38.9	39.5	38.5	34.9	36.3	34.9	37.5
Effective head room	H63	37.8		37.3	37.2	37.4	37.8	38.8

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. Cof. 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.) <u>W4 x L204 x H201</u> 1728	V2	94.1

(a) 23.5 on 3-Seat Wagons.

AMA Specifications—Passenger Car

Page 1

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 trade 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 ⁽⁶⁾

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		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-Bbl	11.0:1	425 @ 5600	460 @ 4000	3-Spd. Heavy Duty	3.31	--	--	--	
					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

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED ^(*)
MODEL	15400-600 16400-600 16800	396 Cu. In. V-8 325 HP RPO L35	427 Cu. In. V-8 390 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	53.6	57.8	
Di ² xNo.Cyl. 2.5			
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
	Automatic	475 in drive	525 in drive
		750-800 in neutral	

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	.007-.0013(a)
		Bottom	.0009-.0015(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 ^(*)
 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—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 tappet clearance (indicate hot or cold)	Intake	Zero	.024
	Exhaust	Zero	.028
Timing marks on flywheel, damper, other		Torsional damper	

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVROLET	MODEL YEAR	1966	DATE ISSUED	10-7-65	REVISED ^(*)
	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—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.	Upper	Cst Aly Iron (a) Cst Aly Iron, inside bevel (a)
		Lower	Cst Aly Iron-inside bevel-Wr resistant Cst Aly Iron, inside bevel, wear resistant coating L36; Chrome plt L72
	Width		.0770-.0775
	Gap		.010-.020
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) 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	In rod or piston	None
		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 (9)	
15400-600 16400-600 MODEL 16800	396 Cu. In. V-8 325 HP RPO L35	427 Cu. In. V-8 390 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	2.50 x .082-.098	
	Main	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	
Complete system	Control method (variable orifice, fixed orifice, other)	Variable orifice	Fixed orifice
	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
Complete system	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)
MODEL	15400-15600 16400-600 16800	396 Cu. In. V-8 325 HP RPO L35	427 Cu. In. V-8 390 HP RPO L36	425 HP RPO L72		

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 16400-600 MODEL 16800	396 Cu. In. V-8 325 HP RPO L35	427 Cu. In. V-8 390 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 Hydramatic	Holley	3868864	Four Bbl	1.562 P&S
			Rochester	7026200	Quad-Jet	1.39P;2.25S
15600	427	3-Speed & 4-Speed	Rochester	7026205	Quad-Jet	1.39P;2.25S
			Holley	3874898	Four Bbl	1.562 P&S
16400	390HP	Turbo Hydramatic	Rochester	7026204	Quad-Jet	1.39P;2.25S
			Holley	3868864	Four Bbl	1.562 P&S
16600	427	4-Speed (2.20 low)	Holley	3882835	Four Bbl	1.562 P&S
16800			425HP	3-Speed & 4-Speed	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

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	Drive Neutral	500 for Automatic 550 for Manual	550 for Automatic 550 for Manual
	Aux. Adv. Systems (type)	Delco-Remy		
Distributor	Make	1111109	1111112	
	Model	900		
	Cent'fgal 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	6
Intermed. points deg. @ in. Hg				
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 ^(*)
MODEL	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
	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					
	Regu- lated	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 end 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		<p>3 Spd - 4 Spd - place gearshift lever in neutral & depress clutch to floor.</p> <p>Powerglide - place control lever in N or P position.</p> <p>Initial start - press accelerator pedal to floor once to set automatic choke, then release. Turn ignition to START, release as soon as engine starts.</p>			

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(*)
 MODEL 15400-600 16400-600 16800 396 Cu. In. V-8 325 HP RPO L35 427 Cu. In. V-8 390 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 thermostat	Type (choke, bypass)	Choke	
	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	23
	Without heater (qt.)	22	22
	Opt. equipment-specify (qt.)	23	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

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

Speed-ometer	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 @ 12.5V

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 ^(*)

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

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Positive shift solenoid		
	Pinion meshes (front, rear)		Rear		
	Number of teeth	Pinion	9		
		Flywheel	Manual	168	
	Flywheel tooth face width		Auto.	168	N.A.	N.A.
		Flywheel tooth face width	Manual	.4100-.4220	
Auto.	.4100-.4220		N.A.	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 ⁽⁹⁾
 MODEL 15400-600 16400-600 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 (pt.)	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 <u>15400-600</u> <u>16400-600</u> <u>16800</u>	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	
		5	4	4	
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 (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)			
Manual lockout (yes, no)			
Downshift accelerator control (yes, no)			
Minimum cut-in speed		NOT	
Gear ratio			
Lubricant	Capacity (pt.) (Overdrive only)		
	Separate filler (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 ^(*)

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 (duo-servo, disc, balancud, 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)			
No. pistons per caliper			
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 ^(*)

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)
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 ^(*)

MODEL _____

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

BRAKES—PARKING

Type of control		Foot pedal apply, "T" handle release	
Location of control		Left of steer column, under instru. panel	
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 axle upper control arm crossmember, rear shock absorber crossmember, and a rear crossmember. Welded box-construction side rails from front crossmember to aft of rear axle /
---------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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 ^(*)

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 at 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 (*)
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 Ident. 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
Backlight glass exposed surface area	1173.5	1213.6
Total glass exposed surface area	4005.3	3987.8

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 _____

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 acc. 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	Direct, double-acting, hydraulic
	Make	Delco
	Piston dia.	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
	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 and 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
	Rate at wheel (lb. per in.)	108.6
	Mounting insulation type	None
	If leaf	No. of leaves Shockle (comp. or tens)
Stabilizer	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 _____

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

CHEVROLET IMPALA, BEL AIR & BISCAYNE COLOR & TRIM CHART

INTERIOR TRIM CODES			EXTERIOR COLORS																								
The following code must be shown on the order form for the desired interior trim. B—BLUE D—RED E—BLACK F—FAWN G—GREEN L—OPTIONAL BLACK VINYL R—BRIGHT BLUE S—WHITE/BLACK T—TURQUOISE V—OPTIONAL FAWN VINYL Z—BRONZE			Solid												Two-Tone												
			Tuxedo Black	Ermine White	Mist Blue (Med)	Danube Blue (Dk)	Marina Blue (Brt)	Willow Green (Med)	Artesian Turquoise (Med)	Tropic Turquoise (Dk)	Astec Bronze	Madiera Maroon	Regal Red	Sandalwood Tan	Cameo Beige	Chateau Slate	Lemonwood Yellow	Ermine White/Artesian Turq	Mist Blue/Ermine White	Mist Blue/Danube Blue	Willow Green/Ermine White	Tropic Turquoise/Ermine White	Madiera Maroon/Tuxedo Black	Sandalwood Tan/Cameo Beige	Chateau Slate/Tuxedo Black		
MODELS	Int. Trim & RPO	Exterior Code	AA	CC	DD	EE	FF	HH	KK	LL	MM	NN	RR	TT	VV	WW	YY	CK	DC	DE	HC	LC	NA	TV	WA		
IMPALA SUPER SPORT Convertibles 16767-16867 Sport Coupes 16737-16837	VINYL	Fawn 862	F	F	F	F		F	F	F	F	F		F	F		F								F		
		Turquoise 846	T	T					T	T								T	T				T				
		White/Black 885	S	S	S		S	S				S	S		S	S	S										
		Red 873	D	D								D	D								B	B					
		Blue 837	B	B	B	B	B											B									
		Black 813	E	E	E	E	E	E	E			E	E	E	E	E	E	E							E	E	
		Brt Blue 844	R	R			R											R									
Green 830	G	G				G										G				G							
IMPALA Sport Coupes 16337-16437 Sport Sedans 16339-16439 4-Door Sedans 16369-16469	CLOTH	Fawn 866	F	F	F	F		F	F	F	F	F		F	F		F								F		
		Turquoise 853	T	T					T	T								T	T				T				
		Red 874	D	D								D	D														
		Blue 842	B	B	B	B	B											B			B	B					
		Green 826	G	G				G										G				G					
Sport Coupes Sport Sedans	Optional Black Vinyl	814	L	L	L	L	L	L	L		L	L	L	L	L	L	L							L	L		
Convertibles 16367-16467 4-Door 2-Seat Station Wagons 16335-16435 4-Door 3-Seat Station Wagons 16345-16445	VINYL	Fawn 859	F	F	F	F		F	F	F	F	F		F	F		F								F		
		Turquoise 847	T	T					T	T								T	T				T				
		Red 871	D	D								D	D														
		Blue 836	B	B	B	B	B											B			B	B					
		Green 829	G	G				G										G				G					
BEL AIR 2-Door Sedans 15511-15611 4-Door Sedans 15569-15669	CLOTH	Fawn 863	F	F				F	F	F	F	F		F	F		F								F		
		Turquoise 850	T	T					T	T								T	T				T				
		Red 872	D	D								D	D														
		Blue 839	B	B	B	B	B											B			B	B					
4-Door Station Wagons 15535-15635 15545-15645	VINYL	Fawn 867	F	F				F	F	F	F	F		F	F		F								F		
		Turquoise 854	T	T					T	T								T	T				T				
		Red 878	D	D								D	D														
		Blue 833	B	B	B	B	B											B			B	B					
BISCAYNE 2-Door Sedans 15311-15411 4-Door Sedans 15369-15469	CLOTH	Fawn 860	F	F				F	F	F	F	F		F	F		F								F		
		Blue 840	B	B	B	B	B											B			B	B					
		Red 876	D	D								D	D														
4-Door 2-Seat Station Wagons 15335-15435	Opt Fawn Vinyl	865	V	V			V	V	V	V	V		V	V		V								V			
4-Door 2-Seat Station Wagons 15335-15435	VINYL	Fawn 861	F	F				F	F	F	F	F		F	F		F								F		
		Blue 832	B	B	B	B	B											B			B	B					
		Red 877	D	D								D	D														

Recommended combination
 Acceptable combination
 Not available



9
4



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	12
Lengths - Overall	1	Windshield Wiper	24
Lifters, Valve	6		



11

12

