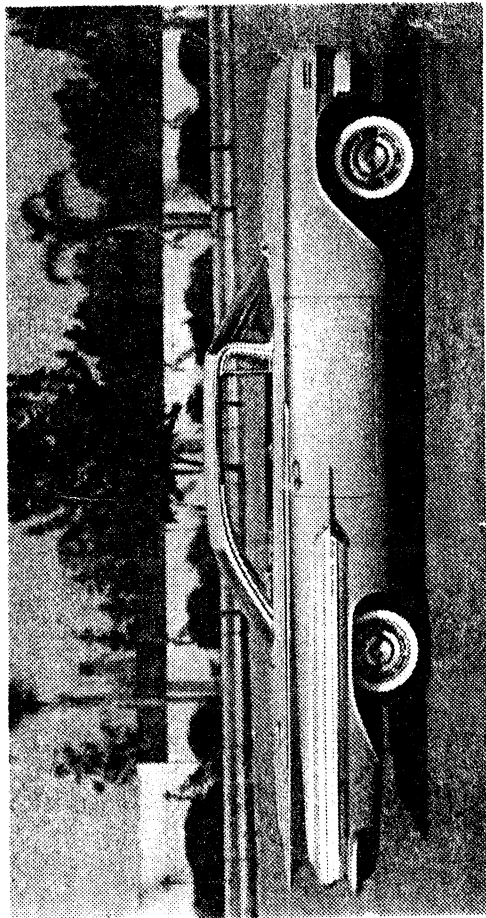
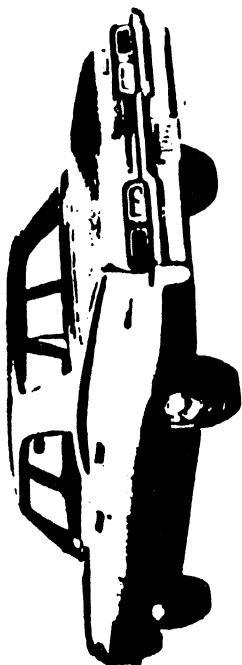




1960 Chevrolet, Impala two-door hardtop sports coupe, V-8 (A.A)

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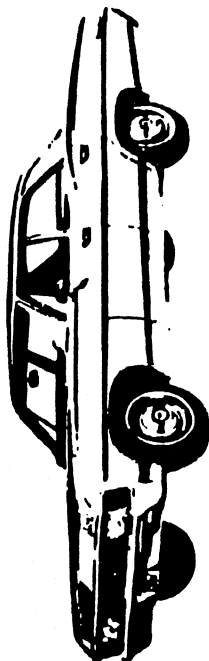


BISCAYNE 153-15400 SERIES

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

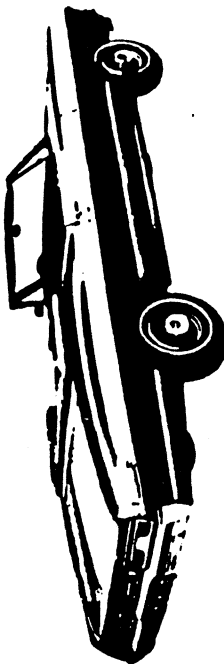
BEL AIR 155-15600 SERIES

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



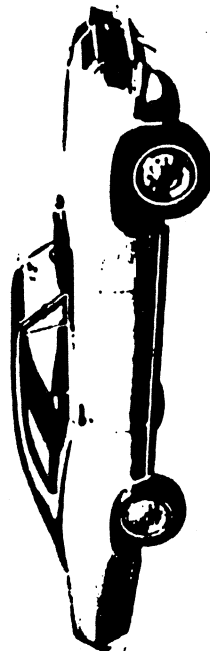
IMPALA 163-16400 SERIES

MODEL 163-16435 4-DOOR STATION WAGON, 2-SEAT
 MODEL 163-16439 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
 MODEL 163-16487 2-DOOR SPORT COUPE, 5-PASSENGER



IMPALA SUPER SPORT 167-16800 SERIES

MODEL 167-16867 2-DOOR CONVERTIBLE, 4-PASSENGER
 MODEL 167-16887 2-DOOR SPORT COUPE, 4-PASSENGER



CAPRICE 16600 SERIES

MODEL 16635 4-DOOR STATION WAGON, 2-SEAT
 MODEL 16639 4-DOOR SPORT SEDAN, 6-PASSENGER



VEHICLE SERIAL NUMBER

6-Cylinder Example:
Model Year Assembly Plant Unit Number
1967 (Tarrytown) (25th unit)
15369 7 100025

Thus: The 25th model built at Tarrytown would be serial number 153697T100025

8-Cylinder Example:
Model Year Assembly Plant Unit Number
1967 (Flint) (26th unit)
15469 7 100026

Thus: The 26th model built at Flint would be serial number 154697F100026

ASSEMBLY PLANTS

- A - Atlanta
- C - Southgate
- D - Atlanta GMAD
- F - Flint
- J - Janesville
- L - Los Angeles
- R - Arlington
- S - St. Louis
- T - Tarrytown
- U - Lordsown
- 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

TRANSMISSION IDENTIFICATION

Example: S7E01

Plant and Type Production
Designation Month & Date
S 501D
Prefix Plant 3-speed overdrive
O Saginaw 3-speed
S Saginaw 4-speed
R Saginaw 4-speed
P Muncie 4-speed
C Cleveland Powerglide
T Toledo Powerglide
CC Ypsilanti Turbo Hydra-Matic

Location:
3-Speed & 4-speed Stamped on right hand side of the case in the upper forward corner.
4-Speed Stamped on the top right side of the case.
Powerglide Stamped on right hand side of pan.

O - Month: S denotes May; 01 denotes 1st day.
- The letter "D" or "N", following the date numerals, indicates day or night shift.

ENGINE IDENTIFICATION

Example: P 1210 FA
Source Production* Type
Designation Month & Date 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
GP - 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.
● KL - Optional, Turbo Hydra-Matic, 4-bbl. carb.

396 Cubic Inch 8-Cylinder (RPO L35)
LA - Optional, 3 or 4-speed trans., 4-bbl. carb.
IG - Optional, Powerglide
IV - Optional, Hydra-Matic

427 Cubic Inch 8-Cylinder (RPO L36)
ID - Optional 3 or 4-speed, 4-bbl. carb.
IJ - Optional, Hydra-Matic

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

DA 3.08 3-speed and Powerglide transmission
DB 3.96 4-speed transmission
● EP 2.73 Turbo Hydra-Matic
EX 3.70 Overdrive transmission
GX (Wagons) 3.35 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

Bright Metal Trim & Moldings	Stainless Steel	C/V belt reveal	16000
		Back window reveal	Sedans, coupes, exc. conv.
		Body belt - rear	163-164-167-16867
		Door frame wide scalp molding	163-16435,45,69; 16635,45
		Roof drip gutter molding	153-15600, 163-16439-87, 16639-47, 167-16887
		Roof reveal molding	163-16487,89; 16639-47; 16887
		Rear quarter window reveal (gained on 153-15435)	153-15435; 163-16435,45; 16635,45
		Tailgate window reveal - top and sides	153-15435-155-156-163-16435,45; 16635,45
		Tailgate window reveal - lower	163-16435,45; 16635,45
		Hub caps	All
Anodized Aluminum		Windshield reveal - lower, sides, upper	All
		Wheel trim covers	16600; 167-16800
		Windshield pillars and header	163-164-167-16867
		Body side molding - full	153-15600
		Body side molding (black paint fill)	167-16800
		Body side lower molding	163-16400, 16639-47
		Body rear molding (black paint fill)	16639-47
		Deck lid molding (black paint fill on 167-16800)	163-16439-67-69-87; 167-16800
		Headlamp bezels	All
		Radiator grille and opening moldings	All
Chrome Plated Metal		Radiator grille-black & bright horiz. bars	167-16800
		Rear quarter lower (at bumper)	163-16400; 16639-47
		Wheel opening moldings	166-167-16800
		Deck lid or tailgate emblem	All exc. 16635-45
		Front door vent glass channel and post	All
		Roof sail panel nameplate, "Caprice"	16639-47
		Tail lamp bezels	All
		Front door vent glass frame molding	All
		Front fender nameplate "Caprice"	16635-45
		Front fender emblem and nameplate	167-16800
		Front fender engine emblem-V8 only	All
		Outside L.H. rear view mirror	All
		Radiator grille nameplate-"Chevrolet"	All exc. 167-16800
		Radiator grille nameplate-"Impala SS"	167-16800
		Rear door ex. quarter glass channel-front	163-16487,89,67; 16639,47; 167-16800
		Rear quarter emblem and nameplate	153-154-155-15600, 163-16400
		Rear deck or tailgate nameplate - "Chevrolet"	All exc. 166-167-16800
		Rear deck or tailgate nameplate - "Caprice by Chevrolet"	16600
		Rear deck nameplate - "Impala SS"	167-16800
		Body side paint stripes - dual	16639-47
		Body side and rear wood-grain panels	16635-45
		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
		Front fender wraparounds	All exc. 16600
		Lamps - front fender	16600
		Lamp - rear license	All
		Tail lamps - triple - back-up lamps in bumper	16600
		Tail lamps - dual with back-up lamps	All exc. 153-15411-69, 16600
		Tail lamps - single with back-up lamps	153-15411-69, 16600
		Wipers, windshield - 2-speed electric, with washers, satin-chrome hardware	All

Bright Metal Trim & Moldings	Back window reveal	163-16439,87; 16639,47; 167-16837
	Console - floor center	167-16800
	Front bucket seat cushion and backrest	167-16800
	Front seat and trim panels	16639-47
	Pedal pads, bright trim	16000
	Rear view mirror, day-night padded frame	All
	Rear seat speaker grille and ornament	163-164-167-16887,87; 16647
	Window control handles - color-keyed knobs	All
	Two-position free-wheeling front door handles	All
	Door control handles - standard type	15000
	Door control handles - paddle type	16000
	Windshield top and side moldings - bright	163-16487,39; 16639,47; 167-16887
	Roof side rail	163-16487,39; 16639,47; 167-16887
	Ash tray face plate (b)	All
Instrument Panel	Cigarette lighter and ash tray	All
	Control knobs - chrome	All
	Convertible top switch	163-164-167-16867
	Electric clock	16000
	Glove box area series nameplate	153-156, 163-164, 166-167-16800
	Glove box lock	All
	Ignition lock and starter switch - "4 position"	All
	Upper trim panel - bright (paint filled) (a)	163-164-166-167-16800
	Lower trim - and radio-buster control	16000
	Lower trim plate - brushed aluminum	163-164-167-16800
	Rear window control switch (black plastic)	153-156-163-164-16645
	Instrument panel pad	All
	Vent control knobs - chrome	All
	Console courtesy	167-16800
Interior Lights	Glove box	All exc. 153-15400
	Instrument panel courtesy - dual	16467, 16867, 16600
	Luggage compartment	16000 sedan, coupe
	Roof center dome	15000; 163-16435,45,69-16635,45
	Roof side dome - dual	163-16439-47, 167-16887, 16639-47
	Third seat	153-15645-163-16445-16645
	Steering Wheels	15000
	Deep hub - 3-spoke with horn button	16000
	Armrests - front door	All
	Armrests and ash tray - rear door	All exc. 153-154-155-15611, 16467-87, 16867-87, 16647
	Armrests and ash tray - rear quarter	153-154-155-15611, 163-164, 167-16867,87; 16647
	Brake system failure and parking brake indicator	All
	Coat hooks (2) - soft plastic, colored	All exc. convertible
	Four-way hazard flasher	All
Front seat center armrest	Freeway lane change signal	All
	Front seat center armrest	16639
	Front seat folding back lock	153-154-155-15611; 163-164-167-16867,87; 16647
	Master deluge	All
	Locking knobs - front and rear doors	All
	Mat - luggage or storage compartment	153-154-155-15635, 16645, 16000
	Seat belts - front & rear, push-button with retractors on front (third seat also for 2-seat wagons)	All
	Seats - front bucket	167-16800
	Seatbelts - dual, padded	All
	Switches - front door jamb (rear also for 16600 exc. 16647)	153-15600; 16000
	Switch - manual interior light (integral in headlamp switch)	All
	Shift and signal levers - knobs (color-keyed)	All

(a) Wood-grain on 16600

(b) Brushed aluminum, wood-grain on 16600

Equipment	RPO /ACC	Models
Air cleaner, heavy duty	K45	153-155-163-16700
Air conditioning, Comforton automatic temperature control	C75	15-16000
Air conditioning, Comfort-Car	ACC	15-16000
Air conditioning, Four-Season	C60	15-16000
Air deflector, rear window	C51 ACC	15-16000 wgn
Air injection reactor equipment	K19	15-16000
Apparatus Guard Group (Items available as a group or as separate options)		
Custom deluxe front & rear seat belts (with front retractors)		15-16000
Door edge guards		15-16000 exc 16635-45
Front bumper guards		15-16000
Rear bumper guards		15-16000 exc wgn
Rubber twin front and rear floor mats		15-16000
Auxiliary Lighting Group (Items available as a group or as separate options)		
Ash tray lamp		15-16000
Front fender lamps		15-16000 exc 16600
Glove box lamp		153-15400
Instrument panel courtesy lamps		150-163-16400 exc 67-87
Luggage compartment lamp		15000 exc wgn
Underhood lamp		15-16000
Battery, heavy duty	T60	15-16000
Body equipment, heavy duty	B01	153-15400
Brake linings, sintered-metallic	J65	15-16000
Brakes, front disc	J52	15-16000
Brakes, power	J50 ACC	15-16000
Carpet, load floor	B39	163-164-16635-45
Carrier cover, roof luggage	ACC	15-16000 wgn
Carrier, deck lid luggage	ACC	15-16000 exc wgn
Carrier, deluxe adjustable roof luggage	V54 ACC	15-16000 wgn
Carrier, roof luggage	V55 ACC	15-16000 wgn
Carrier, ski equipment (deck lid)	ACC	15-16000
Carrier, ski equipment (roof luggage carrier)	ACC	15-16000 wgn
Carrier, ski equipment (roof clamp-on type)	ACC	15-16000 exc conv
Chassis equipment, heavy duty	Z04	153-15400
Clock, electric	U35 ACC	15000
Clutch, heavy duty	M01	15-16000
Compass, auto	ACC	15-16000
Cruise control	K30 ACC	154-156-164-166-16800
Door Group (Items available as a group or as separate options)		
Deluxe steering wheel		15000
Door and window frame molding		15000
Rear wheel opening skirts		15-16000 exc wgn
Roof drip molding		153-15400, 163-16435-45-49, 16635-45
Wheel trim covers		150-163-16400
Deflectors, rain	ACC	15-16000
Defroster, rear window	C50 ACC	15-16000 exc conv & wgn

Equipment	RPO /ACC	Models
Emergency road kit	ACC	15-16000
Engines		
275 hp Turbo-Fire 327 Cu.in. V-8	L30	154-156-164-166-16800
325 hp Turbo-Jet 396 Cu.in. V-8	L35	154-156-164-166-16800
385 hp Turbo-Jet 427 Cu.in. V-8	L36	154-156-164-166-16800
Engine ventilation, closed positive	K24	15-16000
Exhaust system, dual	N10	154-156-164-166-16800
Fan, temperature controlled	K02	ACC
Fire extinguisher		ACC
Floor mat, cargo compartment		ACC
Floor mats, clear vinyl twin front and rear		ACC
Floor mats, heavy duty front	B34	15000
Floor mats, heavy duty rear	B35	15000
Floor mats, rubber full width front		ACC
Floor mats, rubber twin front and rear	B37	ACC
Foundation Group (Items available as a group or as separate options)		
Deluxe foam front seat cushion		15000
Electric clock		15000
Push-button AM radio with front antenna		15-16000
Gauges, instrument panel	U14	154-156-164-166-16800
Generator, Delco-Ronco (12-42 amp)	K79	15-16000
Generator, Delco-Ronco (61 amp)	K76	15-16000
Generator, Delco-Ronco (62 amp)	K81	15-16000
Glass, tinted window	A01	15-16000
Glass, tinted windshield	A02	15-16000
Guard, gas tank filler door		ACC
Guards, door edge	B93	ACC
Guards, front bumper	V31	ACC
Guards, rear bumper	V32	ACC
Headrest, conventional type front seat	A82	15-16000 exc wgn
Headrest, Scrato-ease special contour	A81	150-163-164-16600
Heater defroster		16639-47, 167-16800
Heater-defroster deletion	C48	15-16000
Horn, low "D" note	U03	ACC
Ignition switch light, fiber optic	U23	ACC
Lamp, ash tray	U28	ACC
Lamp, glove box	U27	ACC
Lamp, luggage compartment	U25	ACC
Lamp, front fender	Y78	15000 exc wgn
Lamp, instrument panel courtesy	U29	ACC
Lamp, underhood	U26	ACC
Liner container, instrument panel mounted		ACC
Liner container, saddle type		ACC
Lock, gas filler cap		ACC
Lock, spare wheel		ACC
Locks, rear door safety		ACC
Lock, storage compartment	A96	ACC
		15-16000 2-seat wgn

Equipment	RPO/ACC	Models
Mirror, outside rear view; right hand	ACC	15-16000
Mirror, remote control outside rear view	D33	15-16000
Mirror, visor vanity	ACC	15-16000
Molding, door and window frame	B90	15000
Molding, roof drip	B80	153-15400, 163-16435-45-69, 16635-45
Operating Concessions Group (items available as a group or as separate options)		
Rear window defroster		15-16000 exc conv & wgn
Remote control outside rear view mirror		15-16000
Pedal covers, chrome trim		15-16000 exc 16000
Palis stripe, wide sides	D96	167-16800
Radiator, heavy duty	V01	15-16000
Radio and front antenna, manual AM		15-16000
Radio and front antenna, push-button AM	U63	15-16000
Radio and front antenna, push-button AM-FM	U69	15-16000
Radio antenna, front fixed height		15-16000
Radio antenna, front manual		15-16000
Radio antenna, rear manual	U73	15-16000 exc wgn
Radio antenna, rear power	U75	15-16000 exc wgn
Radio speaker, rear seat	U80	15-16000
Radio stereo	U79	15-16000
Rear axle		
2.73 ratio	G97	154-156-164-166-16800
3.07 ratio	H01	154-156-164-166-16800
3.08 ratio	G92	154-156-16000 exc L6 wgn
3.31 ratio	G94	15369, 154-156-164-166-16800
3.36 ratio	G76	15-16000
3.55 ratio	G96	15-16000 exc L6 wgn
3.70 ratio	G75	15-16000
3.73 ratio	H05	154-156-164-166-16800
Positraction	G80	15-16000
Roof cover, vinyl	C08	163-16439-87, 16639-47, 167-16887
Seat belt, rear center - used with custom deluxe seat belts	A15	15-16000 exc conv & sport coupe
Seat belt, rear center - used with standard seat belts	A68	15-16000 exc conv & sport coupe
Seat belts, custom deluxe front and rear (with front retractors)	A39	15-16000
Seat cushion, deluxe foam front	B55	15000
Seat, front Scratto-back bench	A53	16639-47, 167-16800
Seat, heavy duty front, low profile type	A75	15000
Seat, heavy duty rear	A76	15000 exc wgn
Seat pad, ventilated		15-16000
Seat, power 4-way bucket	A46	16647-700-800
Seat, power 6-way bench	A42	155-156-16000
Seat, split second	A66	15-16000 wgn
Seats, front Scratto-bucket	A51	16647

Equipment	EPO/ACC	Models
Shock absorbers, automatic level control	G67	15-16000
Shock absorbers, superlift air adjustable	G66	15-16000
Shoulder harness, front seat - used with custom deluxe seat belts	A85	15-16000
Shoulder harness, front seat - used with standard seat belts	AS1	15-16000
Speed warning indicator	UIS	15-16000
Spotlamp, hand portable	ACC	15-16000
Spotlamp, remote control	ACC	15-16000
Station Wagon Convenience Group (Items available as a group or as separate options)		
Power tailgate window		15-16000 2-seat wgn
Rear window air deflector		15-16000 wgn
Rooftop luggage carrier		15-16000 wgn
Storage compartment lock		15-16000 2-seat wgn
Steering, power	N40	15-16000
Steering wheel, deluxe	N30	15000
Steering wheel, tilt	N33	15-16000
Steering wheel, wood-grained plastic	N34	15-16000
Stereo tape player	U57	15-16000
Super Sport 427 Package	Z24	16800
Suspension, heavy duty front and rear	F40	15-16000 exc wgn
Suspension, special performance front and rear	F41	154-156-164-166-16800
Tachometer		154-156-164-166-16800
Taxicab equipment	B02	153-15469
Tires		
8.15-15-4pr blackwall rayon	Q04	150-163-16400 exc wgn
8.15-15-4pr blackwall nylon	Q05	150-163-16400 exc wgn
8.15-15-4pr whitewall rayon	R51	15-16000 exc wgn
8.15-15-4pr special nylon - white stripe	Q48	15-16000 exc wgn
8.25-14-4pr special nylon - white stripe	Q08	15-16000 exc wgn
8.25-14-4pr blackwall nylon	P76	15-16000 exc wgn
8.25-14-4pr whitewall rayon	P77	15-16000 exc wgn
8.25-14-4pr whitewall nylon	P79	15-16000 exc wgn
8.25-14-4pr blackwall - special nylon	T08	15-16000 exc wgn
8.25-14-4pr whitewall - special nylon	T09	15-16000 exc wgn
8.25-14-8pr blackwall - special nylon	T18	15-16000 exc wgn
8.25-14-8pr whitewall - special nylon	T19	15-16000
8.45-15-8pr whitewall rayon	QC2	15-16000 wgn
8.55-14-4pr whitewall rayon	P85	15-16000 wgn
8.55-14-4pr blackwall rayon	P86	15-16000 wgn
8.55-14-4pr whitewall nylon	P87	15-16000 wgn
8.55-14-8pr whitewall - special nylon	T21	15-16000 wgn
8.55-14-8pr blackwall - special nylon	T20	15-16000 wgn

Equipment	RPO/ACC	Models
Tissue dispenser, instrument panel mounted	ACC	15-16000
Top, folding convertible	C05	163-164-167-16867
Trailer hitch	ACC	15-16000
Trailer wiring harness	ACC	15-16000
Transmissions		
Transmission overdrive (2.85:1 low ratio)	M10	15-16000
3-speed transmission, heavy duty (2.41:1 low ratio)	M13	154-156-164-166-16800
4-speed transmission (3.11:1, 2.54:1 or 2.52:1 low ratio)	M20	154-156-164-166-16800
Powerglide transmission (1.82:1 low ratio for L-6 & 283 V-8; 1.76:1 for 327 & 396 V-8)	M35	15-16000
3-speed automatic transmission - Turbo Hydra-Matic (2.48:1 low ratio)	M40	154-156-164-166-16800
Wheel trim covers	F01 ACC	150-163-16400
Wheel trim covers, mag-style	N96 ACC	15-16000
Wheel trim covers, simulated wire	F02 ACC	15-16000
Wheel opening skirts, rear	T58	15-16000 exc wgn
Wheels, 14 x 6JK	P12	150-163-164-167-16800 exc wgn
Wheels, 15 x 6J	P42	150-163-164-167-16800 exc wgn
Windows, power	A31	155-15635-45-69, 16000
Window, power tailgate	A33	15-16000 2-seat wgn

BODY EQUIPMENT

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

FLOORS, FRONT AND REAR
Covering ----- Mastic deadener pad
Mats ----- Heavy duty; black rubber;
regular production reinforcing
patch under accelerator location

SEAT CUSHIONS AND BACKRESTS, FRONT AND REAR
Heavy duty reinforced spring construction (9 gage
wire front seat cushion main springs, 9-1/2 gage
wire rear seat cushion main springs); firm jute
padding needled to burlap on front seat cushion

DOVE LIGHT SWITCHES ----- Automatic; all doors

OPEN DOOR WARNING LIGHT ----- Instrument
panel mounted

WINDLACE ----- Extra tacking strip
over doors; long tacks in place of staples

CHASSIS EQUIPMENT

FRAME ----- Special reinforced frame;
extra heavy front upper control arm brackets;
steering gear attachment and spring seats;
extensive use of heavy gauge steel; additional
rear upper control arm (4 link suspension)

SUSPENSION
Coil springs, front and rear ----- Heavy duty
Shock absorbers, front and rear ----- Heavy duty;
special automatic valving
Stabilizer bar, front ----- 6-cylinder models;
standard with V-8 models
Spherical joints, front ----- Metal-lined,
with lubrication fittings
Upper control arm, rear suspension ----- Additional
on 6-cylinder model; standard on V-8

STEERING LINKAGE
Relay rod ----- Special joint seals

BRAKES, FRONT AND REAR ----- Extra
capacity; special heat resistant brake shoe
retracting springs; extra-thick front brake
drum webs; heavy duty organic brake linings
& special lining material on all primary shoes

WHEELS AND TIRES

Wheel size ----- 15x5K
Tire size and type ----- 8.15-15-4PR
blackwall tubeless rayon cord

REAR AXLE
Type ----- High torque capacity; roller-type
rear wheel bearings; 8-7/8" ring gear
Ratios ----- Heavy duty 3.07 rear axle
with standard 6-cylinder and V-8 engines
and 3-speed or Powerglide transmission

POWER TRAIN EQUIPMENT

SPECIAL 6-CYLINDER ENGINE FEATURES
(155 Horsepower 250 Cubic Inch L-6)

VALVE PUSH RODS ----- Heavy duty; hardened tip

HYDRAULIC VALVE LIFTERS ----- Truck type

CARBURETOR ----- Special;
air-engineered fuel metering

PISTON RINGS ----- Special
chrome top compression ring with heavy duty
molybdenum ring, oil ring spacer, chromed
oil ring rails with staggered gaps, inside
beveled taper-faced lower compression rings

FLYWHEEL ----- Large 14" diameter
flywheel ring gear (3-speed
manual transmission only)

STARTING MOTOR ----- Heavy duty;
protective plastic sealant around mounting area

WATER PUMP ----- High capacity;
special ceramic rotor seat

CLUTCH ----- High capacity
11" diameter diaphragm-spring clutch

CRANKCASE VENTILATOR VALVE ----- Take-apart type

BATTERY ----- 61 ampere, 12 volt

RADIATOR - POWERGLIDE ----- High cooling
capacity; fan shroud; crimped
tube transmission oil cooler

TRANSMISSION - POWERGLIDE
(250 Cubic Inch L-6 Engine) ----- 5-plate
heavy duty clutch; 11-3/4" heavy duty
converter assembly with two drain plugs;
liquid cooling and other special components

BODY EQUIPMENT (RPO B01)

INTERIOR TRIM
Standard (sedan) ----- Pattern cloth,
medium fawn, blue; all-vinyl, black
Optional (sedan) ----- All-vinyl;
medium fawn (RPO 865)
Standard (station wagon) ----- All-vinyl;
medium fawn, blue, black

FLOORS, FRONT AND REAR
Covering ----- Mastic deadener pad
Mats ----- Heavy duty; black rubber;
regular production reinforcing
patch under accelerator location

SEAT CUSHIONS AND BACKRESTS
Front (sedan and station wagon) and rear (sedan only)
Heavy duty reinforced spring construction (9 gauge
wire front seat cushion main springs, 9-1/2 gauge
wire rear seat cushion main springs); firm jute
padding needled to burlap on front seat cushion

CHASSIS EQUIPMENT (RPO Z04)

FRONT SUSPENSION
Ball studs - upper and lower ----- Metal-to-metal
bearing surfaces; umbrella-type seals
Knuckle and hub ----- Thick brake drum web;
thick brake lining; heavy duty
primary lining material; high
temperature retracting springs
Lower control arm ----- Stabilizer attachment
(L-6 sedan)
Springs ----- High rate
Shock absorbers (sedan) ----- Stiff valving
Stabilizer ----- L-6 sedan;
standard with V-8 or station wagon models

REAR SUSPENSION
Upper control arms (sedan) ----- Two control
arms with high durometer bushing
Springs ----- High rate
Shock absorbers ----- Stiff valving
Tie rod (sedan) ----- Tie rod
with high durometer bushing at axle end

REAR AXLE
Differential carrier ----- 8-7/8" ring gear
Brakes ----- Heavy duty primary
lining material; thick brake
linings; thick brake drum webs

POWER TRAIN EQUIPMENT (RPO Z04)

ENGINE - 8-CYLINDER
Clutch ----- Large diameter driven plate

BATTERY ----- Heavy duty;
61 ampere, 12 volt

RADIATOR (L-6 models) ----- Heavy duty

COMFORTRON AUTOMATIC TEMPERATURE CONTROL (RPO L75)

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 Axle Ratio - Refer to Power Trains Section.

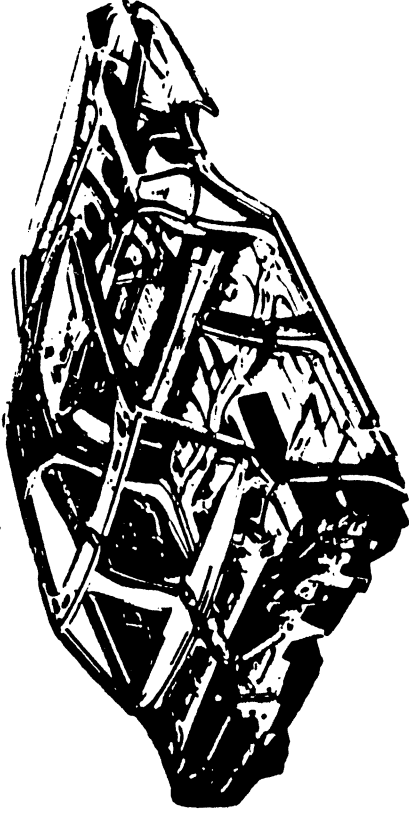
POWER TRAINS

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, Fan Opening ----- Steel; 19.34 dia.*

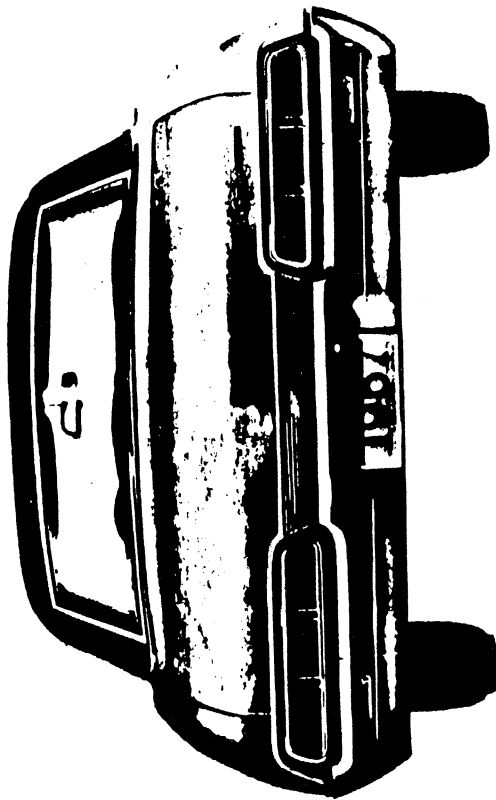
* Additional equipment; also brackets, supports, braces, hoses, etc. as required for installation.

Heavy duty cooling equipment must be used on V-8 powered vehicles. It is recommended that this equipment also be used on all other vehicles for securing maximum air conditioning performance.

BODY



EXTERIOR PAINT	2
EXTERIOR-INTERIOR COLOR COMBINATIONS	3
BODY CONSTRUCTION AND GLASS AREA	7



1. **RUSTPROOFING.** Assembled car bodies are chemically sprayed to clean and etch the metal surfaces for corrosion resistance and paint adhesion. Unassembled sheet metal parts follow the same process.

2. **BODY AND SHEET METAL PRIMERS.** Four corrosion resistant primers, specially formulated, are hand sprayed on the body in areas where rust might develop. Lower areas considered especially vulnerable are coated with another rust inhibiting compound.

3. **PRIMER COAT** is applied to all outside and inside surfaces of fenders and hoods. The parts are mechanically dipped or flow-coated to insure coating in all seams and secluded areas, and baked at 390 degrees F. for 30 minutes. A coat of sealer is then applied by hand spray to all surfaces requiring another coat of lacquer.

4. **FLASH PRIMER AND PRIMER-SURFACER COATS.** An air-dry flash primer coat is hand sprayed on surfaces below the body belt line. Then a gray primer-surfacer coat is hand sprayed on all outside surfaces of the body and oven baked for 45 minutes at 285 degrees F.

5. **INITIAL SANDING.** Power wet sanding, followed by hand sanding, is done on all body surfaces requiring lacquering. This insures a smooth surface for the lacquer finish. To remove the water, the body is wiped and run through an infra-red oven.

6. **LACQUERING.** Three coats of acrylic lacquer are spread on the exterior surfaces of the body and sheet metal parts to build up a finish of the required thickness for each color.

7. **INITIAL BAKING.** To harden the paint for final sanding, the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.

8. **FINAL SANDING.** To remove body surface defects, power and hand sanding is done with fine grit sandpaper and mineral spirits as a wetting agent. Sanded areas are wiped to insure a clean surface before final baking.

9. **FINAL BAKING.** To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 275 degrees F. Reheating the lacquer after final sanding permits paint film to soften, allowing surface blemishes and sanding scratches to disappear during the thermo-reflow process.

10. **UNDERCOATING.** To block out road noise, an asbestos fiber sound deadener with asphalt base is sprayed inside the wheel housings and on the bottom of the underbody at designated areas.

11. **PAINT REPAIR AND PROTECTION.** Marks, nicks, or scratches that occur during final assembly are corrected at the factory before shipment. When required, light "slush" polishing brings painted surfaces to a high luster finish. Wax is applied to all horizontal surfaces of each vehicle and polished out for protection during shipment. The wax contains no silicones, thus eliminating any paint contamination problem.

BISCAYNE 153-15400 SERIES

EXTERIOR TRIM COLORS AND RPO NUMBERS					
		Med. Fawn	Blue	Black	
		Model 15411-69			
		801	840	812(a)	
EXTERIOR		Model 15435			
RPO	COLOR	802(a)	832(a)	812(a)	
AA	Black	X	X	X	
CC	White	X	X	X	
DD	Medium Blue		X	X	
EE	Dark Blue		X	X	
FF	Bright Blue		X	X	
GG	Gold	X		X	
HH	Medium Green	X		X	
KK	Medium Turquoise	X		X	
LL	Dark Turquoise	X		X	
MM	Plum			X	
NN	Maroon	X		X	
RR	Red			X	
SS	Fawn	X		X	
TT	Cream	X		X	
YY	Yellow	X		X	
Two-Tone (Lower/Upper)					
CD	White/Medium Blue		X		
DC	Medium Blue/White		X		
DE	Medium Blue/Dark Blue		X		
ED	Dark Blue/Medium Blue		X		
GT	Gold/Cream	X			X
LC	Dark Turquoise/White				
ST	Fawn/Cream	X			X

(a) All-ruby

BEL AIR 155-15600 SERIES

EXTERIOR		INTERIOR TRIM COLORS AND RPO NUMBERS			
RPO	COLOR	Med. Fawn	Black	Blue	Turquoise
		Models 15611-69			
		803	819	839	850
		Models 15635-45			
		804	820	833	854
AA	Black	X	X	X	X
CC	White	X	X	X	X
DD	Medium Blue		X	X	
EE	Dark Blue		X	X	
FF	Bright Blue		X	X	
GG	Gold	X	X		
HH	Medium Green	X	X		
KK	Medium Turquoise	X	X		X
LL	Dark Turquoise	X	X		X
MM	Plum		X		
NN	Maroon	X	X		
RR	Red		X		
SS	Fawn	X	X		
TT	Cream	X	X		
YY	Yellow	X	X		X
Two-Tone (Lower/Upper)					
CD	White/Medium Blue			X	
DC	Medium Blue/White			X	
DE	Medium Blue/Dark Blue			X	
ED	Dark Blue/Medium Blue			X	
GT	Gold/Cream	X	X		
LC	Dark Turquoise/White				X(a)
ST	Fawn/Cream	X	X		

(a) Not available on 15635-45.

IMPALA 163-16400 SERIES
 IMPALA SUPER SPORT 167-16800 SERIES
 CAPRICE CUSTOM WAGONS 16600 SERIES

EXTERIOR TRIM COLORS AND RPO NUMBERS									
	Black	Blue	Turq.	Gold	Maroon	Red	Parch Black	Bright Blue	
Models 16439-69-87 (Cloth)									
811		842	853	888	874	---	---	---	---
Models 16439-67-87-35-45; 16635-45 (Vinyl)									
814		836(a)	847(b)	889(b)	---	871(c)	894(d)	845(d)	
Models 16867-87 (Strato-bucket, Vinyl)									
813		---	---	890	---	873	895	844	
Models 16867-87 (Strato-back, Vinyl)									
810		---	---	885	---	870	898	848	
AA	Black	X	X	X	X	X	X	X	
CC	White	X	X	X	X				
DD	Medium Blue	X							
EE	Dark Blue	X							
FF	Brt. Blue (exc. 16635-45)	X							
GG	Gold	X		X					
HH	Medium Green	X							
KK	Medium Turquoise	X	X						
LL	Dark Turquoise	X	X						
MM	Plum	X							
NN	Maroon	X		X	X				
RR	Red	X				X			
SS	Fawn	X		X					
TT	Cream	X		X					
YY	Yellow	X	X						
Two-Tone (Lower/Upper)									
CD	White/Med. Blue		X						
DC	Med. Blue/White		X						
DE	Med. Blue/Dark Blue		X						
ED	Dark Blue/Med. Blue		X						
GT	Gold/Cream	X		X					
LC	Dark Turq./White		X						
ST	Fawn/Cream	X		X					

Convertible top: White (Regular Production), Black or Med. Blue (RPO C05).

Vinyl top optional (RPO C08): Black, Lt. Fawn.

(a) All except 16487.

(c) All except 16439.

(b) All except 16439, 87.

(d) 16467, 87 only.

CAPRICE 16600 SPORT COUPE AND SPORT SEDAN

INTERIOR TRIM COLORS AND RPO NUMBERS				
Black	Blue	Plum	Gold	
Models 16639-47 (Standard bench)				
817	843	860	887	
Model 16647 (Strato-bucket)				
815	837	---	891	
Models 16639-47 (Strato-bench, cloth)				
818	834	862	886	
Model 16639 (Strato-bench, vinyl)				
821	835	---	884	
AA Black	X	X	X	X
CC White	X	X	X	X
DD Medium Blue	X	X		
EE Dark Blue	X	X		
FF Bright Blue	X	X		
GG Gold	X			X
HH Medium Green	X			
KK Medium Turquoise	X			
LL Dark Turquoise	X			
MM Plum	X	X		
NN Maroon	X			X
RR Red	X			
SS Fawn	X			X
TT Cream	X			X
YY Yellow	X			
Two-Tone (Lower/Upper)				
CD White/Medium Blue				
DC Medium Blue/White				
DE Medium Blue/Dark Blue				
ED Dark Blue/Medium Blue				
GT Gold/Cream				
LC Dark Turquoise/White				
ST Fawn/Cream				

Not Available For These Models

GENERAL

Type ----- Unsteel, 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 and 2-position free-wheeling inside door handles on all doors
Door ventipanes ----- Crank operated

HOOD AND TRUNK LID

Type ----- Counterbalanced, with spring loaded toggle action hinges on rear of hood and boxed 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
1.25 poly pad ----- 153-154-155-15600
1.50 foam rubber ----- 167-16800
1.75 poly pad ----- 163-164-16600
Rear seat cushion
Jute and cotton ----- 153-154-155-15600
1.75 poly pad ----- 163-16400;
16635,39,45,47; 167-16800
3rd seat cushion
0.75 poly pad ----- 155-156-163-164-16645

WINDSHIELD WIPERS AND WASHERS

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

SPARE TIRE AND TOOLS

Location ----- Sedans and sport coupe, angled 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	87	47	67	35	45
Windshield		1448.1	1384.3	1448.1		1384.3			1448.1
Front door	Ventipane	73.0	87.0	73.0		87.0			73.0
	Window	645.9	640.7	869.4	922.8	884.8	925.6		645.9
Rear door window		630.0	653.2						641.4
Rear quarter	Window			440.6	476.4	417.4	401.8		
Back window	Rear side								1187.4
Total visibility area		1202.0	1239.3	1202.0	1339.8	911.0	767.3		925.9
		3999.0	4004.5	4033.1	4210.3	3684.5	3366.0		4921.7

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

DIMENSIONS AND WEIGHTS

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

FRONT COMPARTMENT

CODE	DESCRIPTION	SEDANS		SPORT COUPES		CONVERTIBLES		STATION WAGONS
		2-DR	4-DR	BN	BKT	BN	BKT	
H3	Seat cushion height	11.4		11.6	12.0	11.6	11.2	11.6
H11	Entrance height	30.4		29.9	29.8	29.9	29.8	30.4
H13	Seating 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	9.3	9.2
H32	Seat cushion deflection	4.4		4.5	4.4	4.5	2.8	4.2
H50	Upper body opening to ground	49.9			49.5			49.9
H58	H point rise		.7			.8		.7
H61	Effective headroom	39.1		38.1	38.2	37.6(A)	38.8	39.2
H70	H point to body O line	14.0			14.2			14.0
H75	Effective headroom	39.0		38.1	38.3	38.2	38.8	39.2
W3	Shoulder room			62.4				62.3
W5	Hip room	63.9			63.7			63.9
L7	Steering wheel torso clearance			11.6		11.4	11.7	11.6
L17	H point travel				4.8			
L34	Effective leg room		42.2		41.7		42.0	42.1

REAR COMPARTMENT

H8	Seat cushion height	14.2	14.5		13.2			14.6
H12	Entrance height	---	29.9		---		---	29.8
H31	H point to heel point	12.0	10.9		10.7			11.9
H33	Seat cushion deflection	3.5	4.9		4.1			4.5
H51	Upper body opening to ground	---	49.6	48.8	---	---	---	49.8
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
H76	Effective headroom	37.7	36.9	36.8	37.2	38.0		38.8
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	27.2	25.7	26.3	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(B)	34.9	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		55.5					
---	Compartment interior height		21.0					
---	Compartment interior width		74.0					
---	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
H250	Tailgate to ground height							25.5
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

LENGTHS

CODE	DESCRIPTION	SEDANS		SPORT SEDANS	SPORT COUPES	CONVERT- IBLES	STATION WAGONS
		2-DR	4-DR				
L101	Wheelbase			119.0			
L102	Tire size (standard)			8.25x14			8.55x14
L103	Overall length			213.2			212.4
L104	Overhang - front			34.9			
L105	Overhang - rear			59.3			58.5
-----	Overall length - less bumpers			210.5			209.0
L127	Body O line to C/L of rear wheels			100.0			
L128	Hood length at centerline			58.5			

WIDTHS

W101	Tread - front		62.5				63.5
W102	Tread - rear		62.4				63.4
W103	Maximum overall width of car			79.9			
W106	Front fender overall width			79.3			
W107	Rear fender overall width			79.9			
W120	Overall car width, front doors open	163.8		143.3		163.8	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		12.7	12.4	12.4	12.5	12.9
H111	Rocker panel to ground - rear		8.8	8.6	8.6	8.8	9.2
H112	Rocker panel to ground - front		7.6	7.4	7.4	7.9	9.2
H114	Hood at rear to ground		38.0	37.8		38.0	39.2
H115	Step height - front (design)		12.8		12.5	12.9	14.4
H116	Step height - rear (design)	---	12.2		---	---	14.1
H125	Headlamp to ground	25.2	25.0		24.2	24.4	26.1
H126	Tail lamp to ground	23.8	23.6		23.1	23.3	25.5
H130	Step height - front (curb)		14.5		14.1	14.3	15.3
H131	Step height - rear (curb)	---	14.2		---	---	14.9
H136	Body O line to ground - front	6.1	6.0		5.2	5.4	7.0
H137	Body O line to ground - rear	5.3	5.1		4.8	5.0	6.0

CLEARANCES

H106	Angle of approach (degrees)		28		27	28	30
H107	Angle of departure (degrees)			12			13
H147	Ramp breaker angle (degrees)				14		17
H148	Front suspension to ground			7.0		6.8	7.0
H149	Oil pan to ground			6.8		6.5	6.8
H150	Flywheel housing to ground			7.1		6.8	7.1
H151	Frame to ground			7.5		6.7	8.5
H152	Exhaust system to ground		5.7		5.5		5.7
H153	Rear axle to ground			6.4		6.2	6.9
H154	Fuel tank to ground		7.2		7.0	7.6	11.1
H155	Tire well to ground			Mounted over rear axle			9.2
H156	Minimum ground clearance (H152)		5.7		5.5	5.7	7.4

Model	Description	SHIPPING WEIGHT			CURB WEIGHT		
		Front	Rear	Total	Front	Rear	Total
15311	2-Door Sedan 6-cylinder	1735	1600	3335	1720	1790	3510
15411	2-Door Sedan 8-cylinder	1835	1630	3465	1830	1815	3645
15335	4-Door Station Wagon 6-cylinder	1695	2070	3765	1680	2260	3940
15435	4-Door Station Wagon 8-cylinder	1790	2095	3885	1780	2285	4065
15369	4-Door Sedan 6-cylinder	1765	1630	3395	1750	1820	3570
15469	4-Door Sedan 8-cylinder	1865	1660	3525	1865	1845	3710

BEL AIR

15511	2-Door Sedan 6-cylinder	1735	1605	3340	1725	1790	3515
15611	2-Door Sedan 8-cylinder	1840	1630	3470	1835	1820	3655
15535	4-Door Station Wagon 6-cylinder	1700	2075	3770	1680	2260	3940
15635	4-Door Station Wagon 8-cylinder	1790	2100	3890	1785	2290	4075
15545	4-Door Station Wagon 6-cylinder*	1685	2140	3825	1665	2330	3995
15645	4-Door Station Wagon 8-cylinder*	1775	2165	3940	1770	2355	4125
15569	4-Door Sedan 6-cylinder	1770	1640	3410	1760	1820	3580
15669	4-Door Sedan 8-cylinder	1870	1665	3535	1870	1850	3720

IMPALA

16335	4-Door Station Wagon 6-cylinder	1710	2095	3805	1695	2280	3975
16435	4-Door Station Wagon 8-cylinder	1800	2120	3920	1800	2305	4105
16339	4-Door Sport Sedan 6-cylinder	1840	1700	3540	1825	1885	3710
16439	4-Door Sport Sedan 8-cylinder	1940	1720	3660	1935	1910	3845
16345	4-Door Station Wagon 6-cylinder*	1700	2160	3860	1680	2350	4030
16445	4-Door Station Wagon 8-cylinder*	1790	2190	3980	1785	2375	4160
16387	2-Door Sport Coupe 6-cylinder	1805	1670	3475	1795	1855	3650
16487	2-Door Sport Coupe 8-cylinder	1900	1690	3590	1900	1875	3775
16367	2-Door Convertible 6-cylinder	1825	1690	3515	1810	1875	3685
16467	2-Door Convertible 8-cylinder	1920	1705	3625	1915	1895	3810
16369	4-Door Sedan 6-cylinder	1795	1660	3455	1780	1845	3625
16469	4-Door Sedan 8-cylinder	1895	1680	3575	1890	1870	3760

CAPRICE

16635	4-Door Station Wagon 8-cylinder	1810	2125	3935	1805	2310	4115
16639	4-Door Sport Sedan 8-cylinder	1965	1745	3710	1960	1935	3895
16647	2-Door Sport Coupe 8-cylinder	1910	1695	3605	1905	1885	3790
16645	4-Door Station Wagon 8-cylinder*	1795	2195	3990	1790	2380	4170

IMPALA SUPER SPORT

16787	2-Door Sport Coupe 6-cylinder	1820	1680	3500	1805	1870	3675
16887	2-Door Sport Coupe 8-cylinder	1915	1700	3615	1910	1890	3800
16767	2-Door Convertible 6-cylinder	1835	1700	3535	1825	1885	3710
16867	2-Door Convertible 8-cylinder	1935	1715	3650	1930	1905	3835

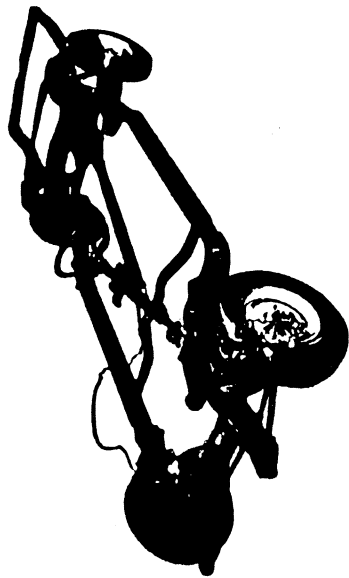
* 3-seat

SHIPPING WEIGHT: Weight of basic vehicle with regular equipment and grease and oil. Weight of gasoline and water not included.

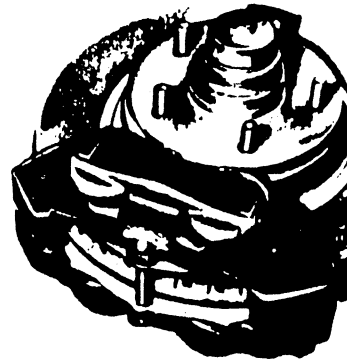
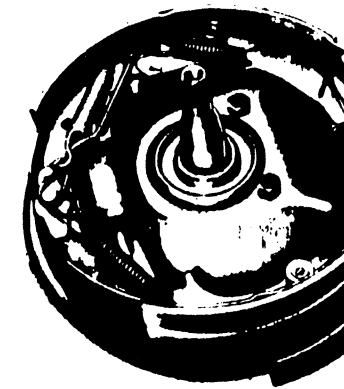
CURB WEIGHT: Weight of empty vehicle ready to drive. Shipping weight plus weights of gasoline and water.

For total shipping, and curb, weights of vehicles equipped with the following options, add to, or deduct from, the base vehicle weight (lbs).

RPO	Option	Weight	RPO	Option	Weight
A31	Power Window	+ 22	L36	427 Cu.In. V-8	+269
A42	Power Seat 6-Way	+ 17	M10	Overdrive Transmission	+ 27
A46	Power Seat 4-Way	+ 14	M13	Heavy Duty Transmission	+ 23
A51	Strato Bucket Seat	+ 28	M20	Four-Speed Transmission	+ 26
C48	Less Heater	- 23	M35	Powerglide Transmission	+ 12
C60	Air Conditioning	+120	M40	3-Spd. Turbo Hydra-Matic Trans.	+ 58
J50	Power Brakes	+ 7	N40	Hydraulic Steering	+ 28
J52	Front Disc Brakes	+ 43	T60	Heavy Duty Battery	+ 15
L30	327 Cu.In. V-8	+ 51	U63	Radio - Push-Button	+ 9
L35	396 Cu.In. V-8	+243	U69	Radio - AM-FM Push-Button	+ 10



FRAME AND FRONT SUSPENSION	2
STEERING, DRIVELINE, WHEELS AND TIRES	3
REAR AXLE AND SUSPENSION	4
BRAKES	5
BULBS AND LAMPS	6
FUSES AND CIRCUIT BREAKERS	7



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 box welded construction. Body mounting points, Convertible and 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 ----- 1.75

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 bearing ----- .7492-.7497
Spindle thread size ----- 3/4-20 NEF-3 (unmodified)
Wheel bearing

Type ----- Taper roller
Number ----- Two per spindle

SPHERICAL JOINTS

Type ----- Ball studs, upper self-adjusting for wear
Bearing surfaces ----- Two bearings; both non-metallic; teflon-coated phenolic.
Upper ----- One upper surface, teflon-coated phenolic.
Lower -----

SHOCK ABSORBERS

Type ----- Direct, double-acting, hydraulic
Piston diameter ----- 1.00

STABILIZER BAR

Type ----- Link
Material ----- HR steel
Diameter ----- .8125
All except SS427 ----- .9375
SS427, RPO F40 & F41 -----

FRONT WHEEL ALIGNMENT (Curb)

Camber (degrees) ----- N1/4 to P3/4
Caster (degrees) ----- P1/4 to P1-1/4
Toe-in (total) ----- 1/8 to 1/4
SAI (degrees) ----- 7 to 8

GENERAL SUSPENSION PROVISIONS

Car leveling ----- Front stabilizer bar
Anti-dive control ----- Angle of front upper control arm
Anti-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)	
3860610	A	Coil, right hand helix	AISI A-5160	126.6	.614	3.80	16.8	11.76@1450	290 @ Wheel 104
3864714	B			126.6	.614	3.80	16.9	11.76@1495	290 104
3864715	C			126.6	.614	3.80	17.2	11.76@1580	290 104
3864716	D			141.1	.636	3.80	17.4	11.76@1630	290 104
3864718	E			141.1	.636	3.80	17.6	11.76@1690	290 104
3864719	F			141.1	.636	3.80	17.7	11.76@1725	290 104
3862967	G			141.1	.636	3.80	17.9	11.76@1770	290 104
3862969	H			141.1	.636	3.80	18.0	11.76@1810	290 104
3862970	I			141.1	.636	3.80	18.1	11.76@1850	290 104
3869400	J			141.1	.636	3.80	18.3	11.76@1910	290 104
3862976	K			113.4	.641	3.80	15.5	11.76@1440	390 136
3862977	L			113.4	.641	3.80	15.7	11.76@1520	390 136
3864721	M			128.1	.668	3.80	16.2	11.76@1740	390 136
3869404	N			128.1	.668	3.80	16.4	11.76@1800	390 136

Engine	250 L-6 Engine					283 Cu. In. V-8 Engine				
	15300	15500	16300	16700	15400	15600	16400	16600	16800	16800
Model	1J 69 35	1J 69 35	1J 69 35	1J 69 35	1J 69 35	1J 69 35	1J 69 35	1J 69 35	1J 69 35	1J 69 35
Ref.	K K K K K	K K K K K	K K K K K	K K K K K	K K K K K	K K K K K	K K K K K	K K K K K	K K K K K	K K K K K

327 Cu. In. V-8 Engine (RPO L30)									
Engine Ref.	C	D	C	C	D	C	L	B	B

396 Cu. In. V-8 Engine (RPO L35)									
Engine Ref.	F	H	N	F	H	N	M	E	H

* Not available on Bel Air & Biscayne 6-cyl. 2 & 4 door sedans.

MANUAL STEERING (Standard)

Description	Semi-reversible, recirculating ball nut gear; and a collapsible steering column for safety. Tilt steering wheel optional
Ratios	Gear, 24:1; overall, 30.7:1
Turning diameters (ft)	
Outside front, wall to wall	43.5
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	5.8
Outside wheel angle with inside wheel	
@ 14.85 degrees	13.99
@ 19.80 degrees	18.09
@ 37.99 degrees (limit of turn)	28.89
Linkage	Parallelgram, rear of wheels, 2 tie rods
Steering wheel	
Standard and optional tilt telescoping wheel	Deep disabed, 16.5 diameter

DRIVELINE

Type	Tubular, exposed
Number used	One
Diameter (OD)	3.25
Length (C/L of U-joints)	
3 & 4-speed	62.16
Powerglide	
All except Caprice	62.16
Caprice	61.76
Turbo Hydra-Matic	
All except Caprice	61.17
Caprice	60.06
Wall thickness	.065
Prop Shaft Damper	On Caprice models equipped with automatic transmission
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	14x5J
Wagons	14x6JK
Disc brakes	15x6JK
Offset	
14x5J	.56
14x6JK & 15x6JK	.06

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, 21.2:1
Number of wheel turns, lock to lock	4.0

TIRE SPECIFICATIONS

	8.25x14-4PR	8.55x14-4PR	8.15x15-4PR
Static loaded radius	12.7	12.9	12.8
Loaded rev/mi @ 30 MPH	755	743	767
Capacity (lb @ PSI)	1350 @ 24	1430 @ 22	1380 @ 24
	1500 @ 28	1770 @ 32	1500 @ 28
Recommended pressure (cold)	24	22	24
	28	32	28

AXLE SHAFT 1	
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

Part Name	Description	Quantity	Unit Price	Total Price
SEMI-AXLE	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	1	(Vert) 1.50	1.50

Pinion offset	-----	(Vert) 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	-----	SAE80
Capacity (gals) -----	8.125 hypoid gear	3.5
	8.875 hypoid gear	4.0

Ratios (standard production)	
250 L-6	
3-speed, automatic	3.08
● Buickayne & Bel Air Sedan	3.36
● All Others	3.55
Wagons	3.70

Overdrive	283 V-8		
3-speed, automatic			3.68
154-15600 sedans			3.36
All except 154-15600 sedans			3.70
Overdrive			3.08
4-speed			
327 V-8			
3 & 4-speed and automatic, wagons			3.36
Powerglide			3.08
● Turbo Hydra-Matic			2.73
396 V-8			
3 & 4-speed			3.31
Powerglide			3.07
Turbo Hydra-Matic			2.73
427 V-8			
3 & 4-speed			3.31
Turbo Hydra-Matic			2.73

Part Number	Ref.	Type	Material	Cut-off Length	Wire Dia.	Inside Dia.	Heights		Deflection rate	
							Free	Working (In. @ lbs)	@ Spring	@ Wheel (Wheel Rate)
3801658	A			126.9	.621	4.00	16.7	12.37 @ 1140	265	120
3895807	B	Cotl		126.2	.597	4.00	17.3	12.37 @ 1140	230	105
3882960	C	Rght	AISI	126.2	.597	4.00	17.5	12.37 @ 1190	230	105
3883961	D	Hand	A-3160	126.2	.597	4.00	17.8	12.37 @ 1240	230	105
3895806	E			112.7	.577	4.00	17.1	12.37 @ 1090	230	105
3869410	F	Helix		129.5	.715	4.00	16.4	12.37 @ 1830	450	200

250 Cu. In. L-6 Engine			283 Cu. In. V-8 Engine						
ENGINES	15300	15500	16700		15400	15600	16400	16600	16800
MODELS	11 69 35	11 69 35	45 87 67	69 99 35	45 87 67	11 69 35	11 69 35	45 87 69	39 35 45
REF.	A A F	A A F	B B C	D F F B	B B C	F B C	F F E	D D F	D F F E

ENGINE	327 Cu. In. V-8 Engine (RPO L30)
DOES	C C F C C F F E E C D F F E D F F E E

ENGINE	396 Cu.In. V-8 Engine (RPO L35)																		
SEE	P	C	F	B	C	F	F	F	F	C	D	F	F	E	D	F	F	E	E

SERVICE BRAKES (standard)
 • Type ----- Dual-circuit;
 brake system warning and parking brake
 light, and reverse self-adjusting brakes.
 Line pressure, psi, @ 100 lb. pedal load ----- 739
 Braking ratios -----
 Pedal ----- 5.80
 Hydraulic ----- 4.82
 Overall ----- 27.9
 Distribution of braking effort
 Front wheels (theoretical, percent) ----- 58.5
 Brake drum
 Diameter, front and rear ----- 11.0
 Construction ----- Composite, web cast into rim
 Material -----
 Web ----- HR steel
 Rim ----- Cast iron alloy
 Swept drum area (sq.in.) ----- 328.3
 Brake lining
 Material ----- Full molded asbestos composition
 Length -----
 Primary shoe, front & rear ----- 9.25
 Secondary shoe, front & rear ----- 11.63
 Width -----
 Front wheels, primary & secondary ----- 2.75
 Rear wheels, primary & 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) ----- 1.22
 Wheel cylinders
 Piston diameter -----
 Front ----- 1.1875
 Rear ----- 1.00
 Foot pedal travel ----- 7.08

PARKING BRAKE

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

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 ----- 3.38
 Hydraulic ----- 4.82
 Overall ----- 16.3
 With metallic service brake linings
 Pedal ----- 3.38
 Hydraulic ----- 4.74
 Overall ----- 16.0
 With front disc brakes
 Pedal ----- 3.38
 Hydraulic ----- 28.5
 Overall ----- 96.4
 Master cylinder
 Piston travel (available pedal travel) ----- 1.46

SERVICE BRAKES, ALL PRODUCTION SERVICE BRAKES except
 (Same as standard production SERVICE BRAKES except
 as follows)
 Line pressure, psi, @ 100 lb. pedal load ----- 964
 Braking ratios (manual)
 Pedal ----- 5.80
 Hydraulic ----- 4.94
 Overall ----- 28.6
 Brake lining
 Material ----- Sintered 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 ----- 6
 Primary, front & rear ----- From 12, rear 10
 Secondary ----- Welded
 Method of attachment -----
 • Total effective area (sq.in.) ----- 145.2
 Master cylinder
 Piston diameter ----- .875

FRONT DISC BRAKES (RPO J52)

(Same as standard production SERVICE BRAKES on rear
 only; must be used with RPO J50)

Type ----- Hub mounted front discs,
 with self-adjusting caliper units mounted on the
 steering knuckle. A metering valve is provided
 for balance between front and rear brakes

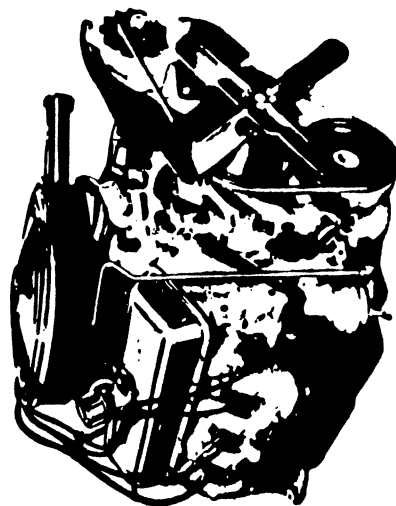
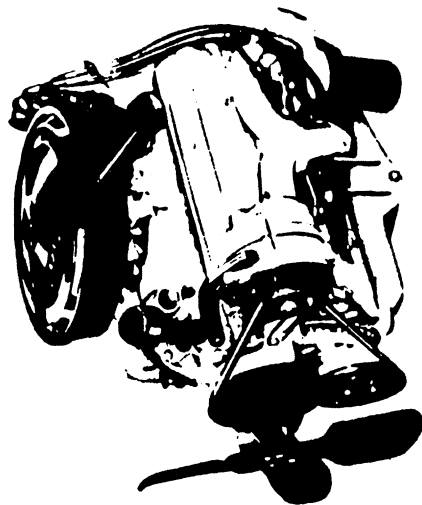
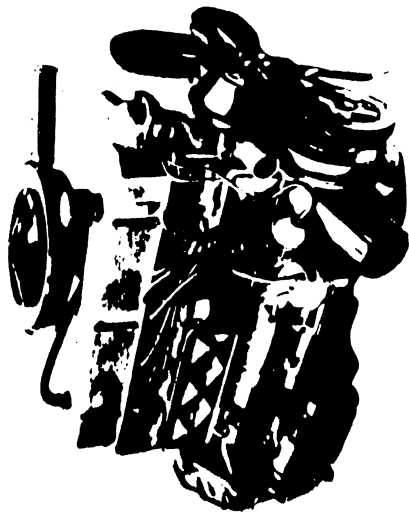
Brake disc

Construction ----- Caliper type
 with radial cavities for heat dissipation
 Material ----- Cast iron
 Diameter ----- 11.75
 Swept disc & drum area ----- 368.8
 Brake lining
 Material ----- Molded asbestos
 Size, disc segment ----- 5.96 x 2.21 x .41
 Method of attachment ----- Riveted
 Total effective area (sq.in.) ----- 115.6
 Gross lining area (sq.in.) ----- 119.7
 Master cylinder
 Piston diameter ----- 1.125
 Piston travel ----- 1.22
 Wheel cylinders (front)
 Number ----- 4 per wheel
 Piston diameter ----- 2-1/16

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Ash tray	1-1445	.7
Automatic transmission position pattern	1-1895	2
Back-up	2-1156	32
Brake warning	1-194	2
Clock	1-1895	2
Courtesy		
Instrument panel	2-631	6
Rear quarter (9-passenger)	1-90	6
Seat separator compartment	1-1445	.7
Rear seat separator	1-212	6
Directional signal indicator	2-1895	2
Dome		
Roof center	1-211	15
Rear quarter	1-90	6
Side rail	2-90	6
Front fender	2-67	4
Generator indicator	1-1895	2
Glove compartment	1-1895	2
Headlamp hi-beam indicator	1-1895	2
Headlamp	2-4002	High beam 37.5W Low beam 55.0W High beam 37.5W
Heater controls	2-4001	2
Ignition switch	2-1895	2
Instrument cluster	1-194	2
License plate, rear	9-1895	2
Luggage compartment	1-67	4
Oil pressure indicator	1-1003	15
Parking	1-1895	2
Park Turn	2-1157	4
Radio		
Spot lamp	1-1893	32
Inside operated Portable	1-4405	2
Tachometer	1-4416	30W 30W
Tail	1-1895	2
Tail only (16600)	2-67	4
Tail, stop and turn	15000, 2-1157	Tail, 4; stop & turn, 32
Temperature indicator	16000, 4-1157	Tail, 4; stop & turn, 32
Underhood	1-194	2
	1-93	15

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	AGC 25 fuse	In line
Ash tray lamp	AGC 25 fuse	Fuse panel (g)
Auto. trans. position pattern lamp	AGC 4 fuse	Fuse panel (c)
Back-up lamps	AGC 4 fuse	Fuse panel (c)
Brake warning lamp	AGC 10 fuse	Fuse panel (d)
Cigarette lighter	AGC 10 fuse	Fuse panel (d)
Clock	AGC 20 fuse	Fuse panel (b)
Courtesy lamps	AGC 20 fuse	Fuse panel (b)
Defroster rear window	AGC 10 fuse	Fuse panel (e)
Direction signal indicator lamps	AGC 4 fuse	Fuse panel (c)
Dome lamps	AGC 20 fuse	Fuse panel (b)
Fuel gage	AGC 10 fuse	Fuse panel (d)
Folding top motor	40 amp CB	Hinge pillar
Generator indicator lamp	AGC 10 fuse	Fuse panel (d)
Glove compartment lamp	AGC 20 fuse	Fuse panel (b)
Headlamps	15 amp CB	Light switch
Headlamps hi-beam indicator lamp	15 amp CB	Light switch
Heater	AGC 25 fuse	Fuse panel (g)
Heater controls lamps	AGC 4 fuse	Fuse panel (c)
Ignition switch lamp	AGC 4 fuse	Fuse panel (c)
Instrument cluster lamps	AGC 4 fuse	Fuse panel (c)
License plate lamp, rear	AGC 20 fuse	Fuse panel (a)
Luggage compartment lamp	AGC 20 fuse	Fuse panel (a)
Oil pressure indicator lamp	AGC 10 fuse	Fuse panel (d)
Overdrive solenoid	AGC 15 fuse	In line
Park and turn lamp	15 amp CB	Light switch
Power antenna	AGC 10 fuse	Fuse panel (d)
Power seats	40 amp CB	Hinge pillar
Power windows	40 amp CB	Hinge pillar
Radio and radio lamp	AGC 20 fuse	Fuse panel (e)
Speed cruise control	AGC 20 fuse	Fuse panel (e)
Speed warning device	AGC 20 fuse	Fuse panel (b)
Spot lamp	AGC 20 fuse	In line
Tachometer	AGC 20 fuse	Fuse panel (b)
Tachometer lamp	AGC 10 fuse	Fuse panel (d)
Tail, stop and turn lamps	AGC 4 fuse	Fuse panel (c)
Tailgate motor	AGC 20 fuse	Fuse panel (a)
Temperature gauge	40 amp CB	Hinge pillar
Temperature indicator lamps	AGC 10 fuse	Fuse panel (d)
Traffic hazard indicator	AGC 20 fuse	Fuse panel (b)
Underhood lamp	SAE 4 fuse	In line
Windshield wiper, two-speed	SAE 20 fuse	Fuse panel (f)
	14 amp CB	Switch

* Letter suffix indicates same circuit



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POWERGLIDE	24
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AXLE RATIOS*

ENGINE	TRANSMISSION	MODEL APPLICATION	(*Axle ratios for Air Conditioning same as base unless indicated otherwise)						
			2.73:1	3.07:1	3.08:1	3.31:1	3.36:1	3.55:1	3.70:1 3.73:1
250 Cubic Inch L-6 Turbo-Thrift 250 155 HP Standard	3-Spd (2.85:1 low) & Powerglide	Biscayne & Bel Air Sedans			Std.		Perf.	Spcl.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		Station Wagons					Econ.	Std.	Perf.
		All Other Models			Econ.		Std.	Perf.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
	Overdrive	All Models							Std.

283 Cubic Inch V-8 Turbo-Fire 283 195 HP Standard	3-Spd (2.85:1 low) & Powerglide	Biscayne & Bel Air Sedans			Std.		Perf.	Spcl.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		All Other Models			Econ.		Std.	Perf.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		All Models			Std.		Perf.	Spcl.	Spcl.
	Overdrive	All Models							Std.

327 Cubic Inch V-8 Turbo-Fire 327 275 HP RPO L30	3-Spd (2.54:1 low) & 4-Spd (2.54:1 low) Powerglide	All Models			Econ.		Std.	Perf.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		All except Station Wagons			Std.		Perf.	Spcl.	Spcl.
		With Air Conditioning			Econ.		Std.	Perf.	Spcl.
		Station Wagons					Std.	Perf.	Spcl.
	Turbo Hydra-Matic	All Models			Std.	Perf.	Spcl.	Perf.	Spcl.
		With Air Conditioning			Econ.	Std.			

396 Cubic Inch V-8 Turbo-Jet 396 325 HP RPO L35	H.D. 3-Spd (2.41:1 low) & 4-Spd (2.52:1 low) Powerglide	All Models			Econ.		Std.	Perf.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		All Models			Econ.	Std.	Perf.	Spcl.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		All Models			Std.	Perf.	Spcl.	Perf.	Spcl.
	Turbo Hydra-Matic	All Models			Econ.	Std.	Perf.	Spcl.	Spcl.
		With Air Conditioning			Econ.	Std.	Perf.	Spcl.	Spcl.

427 Cubic Inch V-8 Turbo-Jet 427 385 HP RPO L36	H.D. 3-Spd (2.41:1 low) & 4-Spd (2.52:1 low) Powerglide	All Models			Econ.		Std.	Perf.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		All Models			Econ.	Std.	Perf.	Spcl.	Spcl.
		With Air Conditioning					Std.	Perf.	Spcl.
		All Models			Std.	Perf.	Spcl.	Perf.	Spcl.
	Turbo Hydra-Matic	All Models			Econ.	Std.	Perf.	Spcl.	Spcl.
		With Air Conditioning			Econ.	Std.	Perf.	Spcl.	Spcl.

- * Posttraction axles available optionally for all ratios shown.
- * Posttraction axles only also available in ratios of 4.10:1, 4.56:1, and 4.88:1.
- Std. - Standard
- Econ. - Economy (optional)
- Perf. - Performance (optional)
- Spcl. - Special (optional)

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION*				AXLE RATIO
			1st	2nd	3rd	4th	
155 HP L-6 Turbo-Thrift Standard	Single Barrel	3-Speed	9.58	5.64	3.36		9.91
		Overdrive	10.54	6.22	3.70		10.92
		In	7.40	4.37	2.59		7.62
195 HP V-8 Turbo-Fire Standard	2-Barrel	3-Speed	9.58	5.64	3.36		9.91
		Overdrive	10.54	6.22	3.70		10.92
		In	7.40	4.37	2.59		7.62
275 HP V-8 Turbo-Fire RPO L30	4-Barrel	4-Speed	9.58	6.78	4.53	3.08	9.58
		3-Speed	8.53	5.04	3.36		8.84
		4-Speed	8.53	6.05	4.83	3.36	8.53
325 HP V-8 Turbo-Jet RPO L35	4-Barrel	H.D. 3-Speed	7.98	5.20	3.31		7.98
		4-Speed	8.34	6.22	4.86	3.31	8.57
		H.D. 3-Speed	7.98	5.20	3.31		7.98
385 HP V-8 Turbo-Jet RPO L36	4-Barrel	4-Speed (2.52:1)	8.34	6.22	4.86	3.31	8.57
		4-Speed (2.20:1)	7.28	5.42	4.20	3.31	7.48

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
155 HP Six Cyl Turbo-Thrift Standard	Powerglide	Drive	12.83:1 - 3.36:1	3.36:1
		Low & Reverse	12.83:1 - 6.11:1	
195 HP V-8 Turbo-Fire Standard	Powerglide	Drive	12.83:1 - 3.36:1	3.36:1
		Low & Reverse	12.83:1 - 6.11:1	
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	
275 HP V-8 Turbo-Fire RPO L30	Turbo Hydra-Matic	Drive	15.56:1 - 2.73:1	2.73:1
		Low	15.56:1 - 6.77:1	
		Second	15.56:1 - 4.04:1	
		Reverse	13.05:1 - 5.68:1	
325 HP V-8 Turbo-Jet RPO L35	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	13.81:1 - 2.73:1	2.73:1
		Low	13.81:1 - 6.77:1	
		Second	13.81:1 - 4.04:1	
		Reverse	11.58:1 - 5.68:1	
385 HP V-8 Turbo-Jet RPO L36	Turbo Hydra-Matic	Drive	13.81:1 - 2.73:1	2.73:1
		Low	13.81:1 - 6.77:1	
		Second	13.81:1 - 4.04:1	
		Reverse	11.58:1 - 5.68:1	

* Axle ratio x transmission ratio.

GENERAL DATA

Engine Type	L-6 OHV	V-8 OHV
Piston Displacement (Cu.In.)	250	327 396 427 L30 L35 L36
Availability	Standard	Eight
Number of Cylinders	Six	Eight
Bore and Stroke (nominal)	3.875x3.53	3.875x3.00 4.00x3.25 4.094x3.76 4.251x3.76
Compression Ratio	8.5:1	9.25:1 10.0:1 10.25:1
Taxable (SAE) Horsepower	36.0	48.0 53.6 57.8
Firing Order	1-5-3-6-2-4	1-8-4-3-6-5-7-2
3-Speed and/or 4-Speed (in Neutral)	500	550
Idle Speed	Overdrive (in Neutral)	500
Powerglide and/or Hydra-Matic* (in Drive)	500	500
Compression Press. (PSI) @ Cranking Speed, Engine Hot	140	150
Power Plant Mountings	Two; combination compression and shear type	One; full shear type
Front		
Rear		
Fan to rear of engine block	34.96	30.14 30.64 32.59
Top of air cleaner to bottom of oil pan	26.67	28.74 29.96 29.73
Width - including generator	28.37	28.92 30.71 30.71

* Turbo Hydra-Matic available with RPO L35 and L36 only and also on Impala SS and Caprice models with L30.
Powerglide not available with RPO L36.

ADVERTISED ENGINE RATING

Engine Designation	L-6, 155 HP Turbo-Thrift 250 Cu.In.	V-8, 195 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, 385 HP Turbo-Jet 427 Cu.In.
Availability	Standard	Standard	RPO L30	RPO L35	RPO L36
Carburetor	Single Barrel	Two Barrel	Four Barrel	Four Barrel	Four Barrel
Gross Brake HP @ RPM	155 @ 4200	195 @ 4600	275 @ 4800	325 @ 4800	385 @ 5200
Gross Torque @ RPM (lb-ft)	235 @ 1600	285 @ 2400	355 @ 3200	410 @ 3200	460 @ 3400

250 CUBIC INCH L-6 ENGINE

Transmission	3-Speed	3-Speed with Overdrive		Powerglide
		OD Locked Out	OD Locked In	
Rear Axle Ratio	3.36:1 (b)	3.70:1		3.36:1 (b)
Tire Size	8.25 x 14 (a)			
Crankshaft Revolutions per Mile	2530.1	2786.1	1950.3	2530.1
Crankshaft RPM @ 1 MPH	Low	120.2	92.6	76.7
	Second	70.8	54.6	
	Third	42.2	32.5	42.2 (direct)
	Reverse	124.4	95.9	76.7
Piston Travel (ft/mile)	1488.5	1639.1	1147.4	1488.5

● (a) 8.55 x 14 standard on Station Wagons. (b) 3.08:1 on Buickayne & Bel Air Sedans and 3.55:1 on Station Wagons.

283 CUBIC INCH V-8 ENGINE

Transmission	3-Speed	3-Speed with Overdrive		Powerglide
		OD Locked Out	OD Locked In	
Rear Axle Ratio	3.36:1 (b)	3.70:1		3.36:1 (b)
Tire Size	8.25 x 14 (a)			
Crankshaft Revolutions per Mile	2530.1	2786.1	1950.3	2530.1
Crankshaft RPM @ 1 MPH	Low	120.2	92.6	76.7
	Second	70.8	54.6	85.0
	Third	42.2	32.5	56.8
	Reverse	124.4	95.9	76.7
Piston Travel (ft/mile)	1265.0	1393.0	975.1	1265.0

● (a) 8.55 x 14 standard on Station Wagons. (b) 3.08:1 Buickayne & Bel Air Sedans.

327 CUBIC INCH V-8 ENGINE

Transmission	3-Speed	4-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio	3.36:1		3.08:1 (b)	2.73:1
Tire Size	8.25 x 14 (a)			
Crankshaft Revolutions per Mile	2530.1	2319.2		2055.7
Crankshaft RPM @ 1 MPH	Low	107.1	68.0	85.0
	Second	63.3		50.7
	Third	42.2	38.6 (direct)	34.3 (direct)
	Reverse	110.9	68.0	71.3
Piston Travel (ft/mile)	1370.5	1256.3		1113.5

● (a) 8.55 x 14 standard on Station Wagons. (b) 3.36:1 on Station Wagons.

396 CUBIC INCH V-8 ENGINE

Transmission	Hvy. Duty 3-Speed	4-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio	3.31:1		3.07:1	2.73:1
Tire Size	8.25 x 14 (a)			
Crankshaft Revolutions per Mile	2492.4	2311.7		2055.7
Crankshaft RPM @ 1 MPH	Low	100.1	67.8	85.0
	Second	63.2		50.7
	Third	41.5	38.5 (direct)	34.3 (direct)
	Reverse	100.1	67.8	71.3
Piston Travel (ft/mile)	1354.2	1256.0		1116.9

● (a) 8.55 x 14 standard on Station Wagons.

427 CUBIC INCH V-8 ENGINE

Transmission	Hvy. Duty 3-Speed	4-Speed (M20)	4-Speed (M21)	Turbo Hydra-Matic
Rear Axle Ratio	3.31:1			2.73:1
Tire Size	8.25 x 14 (a)			
Crankshaft Revolutions per Mile	2492.4			2055.7
Crankshaft RPM @ 1 MPH	Low	100.1	91.4	85.0
	Second	65.2	68.1	50.7
	Third	41.5	52.7	34.3 (direct)
	Reverse	100.1	93.9	71.3
Piston Travel (ft/mile)	1354.2			1116.9

● (a) 8.55 x 14 standard on Station Wagons.

ENGINE	BASE 250 CU.IN. 155 HP	BASE 283 CU.IN. 195 HP	BASE 327 CU.IN. 275 HP	RPO L30 327 CU.IN. 275 HP	RPO L35 396 CU.IN. 325 HP	RPO L36 427 CU.IN. 385 HP
MODEL	15569	15669	15669	15669	15669	15669

3-SPEED TRANSMISSION

Performance Weight (pounds)	4180	4319	4370	4585	4611	
Pounds per Gross Horsepower	26.97	22.15	15.89	14.11	11.98	
Pounds per Cu.In. Displacement	16.72	15.26	13.36	11.58	10.80	
Gross HP per Cu.In. Displacement	.620	.689	.831	.821	.902	
Power Displacement (cu.ft./mile)	183.02	207.18	239.39	285.59	307.94	
Displacement Factor (cu.ft./ton mile)	87.57	95.92	109.56	129.27	133.60	

3-SPEED TRANSMISSION WITH OVERDRIVE

Performance Weight (pounds)	4207	4346				
Pounds per Gross Horsepower	27.14	22.39				
Pounds per Cu.In. Displacement	16.83	15.36				
Gross HP per Cu.In. Displacement	.620	.689				
Power Displacement (cu.ft./mile)	201.34	228.14				
Locked Out	141.08	159.70				
Locked In	95.79	104.99				
Displacement Factor (cu.ft./ton mile)	67.05	73.49				

4-SPEED TRANSMISSION

Performance Weight (pounds)		4345	4396	4562	4588	
Pounds per Gross Horsepower		22.28	15.98	14.04	11.92	
Pounds per Cu.In. Displacement		15.35	13.44	11.52	10.74	
Gross HP per Cu.In. Displacement		.689	.841	.821	.902	
Power Displacement (cu.ft./mile)		189.91	239.39	285.59	307.94	
Displacement Factor (cu.ft./ton mile)		87.40	108.91	125.20	134.24	

TURBO HYDRA-MATIC

Performance Weight (pounds)			4428	4620	4646	
Pounds per Gross Horsepower			16.10	14.21	12.07	
Pounds per Cu.In. Displacement			13.54	11.67	10.88	
Gross HP per Cu.In. Displacement			.841	.821	.902	
Power Displacement (cu.ft./mile)			194.51	235.55	253.99	
Displacement Factor (cu.ft./ton mile)			87.85	101.97	109.34	

POWERGLIDE*

Performance Weight (pounds)	4188	4331	4379	4571		
Pounds per Gross Horsepower	27.02	22.21	15.92	14.07		
Pounds per Cu.In. Displacement	16.75	15.30	13.39	11.54		
Gross HP per Cu.In. Displacement	.620	.689	.841	.821		
Power Displacement (cu.ft./mile)	183.02	207.18	219.44	264.88		
Displacement Factor (cu.ft./ton mile)	87.40	95.70	100.25	119.94		

* Data computed assuming zero slippage in torque converter.

GLOSSARY

Performance Weight Curb Weight plus 600 Lb
(weight of four 150 lb passengers)

Power Displacement Crankshaft Revs/Mi x Piston Displacement
2 x 1728

Displacement Factor Power Displacement
Performance Wt (tons)

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.	5.73 Cu.in.
V8-283 Cu.in.	4.47 Cu.in.
V8-327 Cu.in.	4.69 Cu.in.
V8-396 Cu.in.	5.38 Cu.in.
V8-427 Cu.in.	5.90 Cu.in.

INLET MANIFOLD

Material	Cast alloy iron
Type	
L6	3 port, rectangular section
V8	8 port, double deck
Heat Provision	Exhaust gas crossover at carburetor mounting pad.

EXHAUST MANIFOLD

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

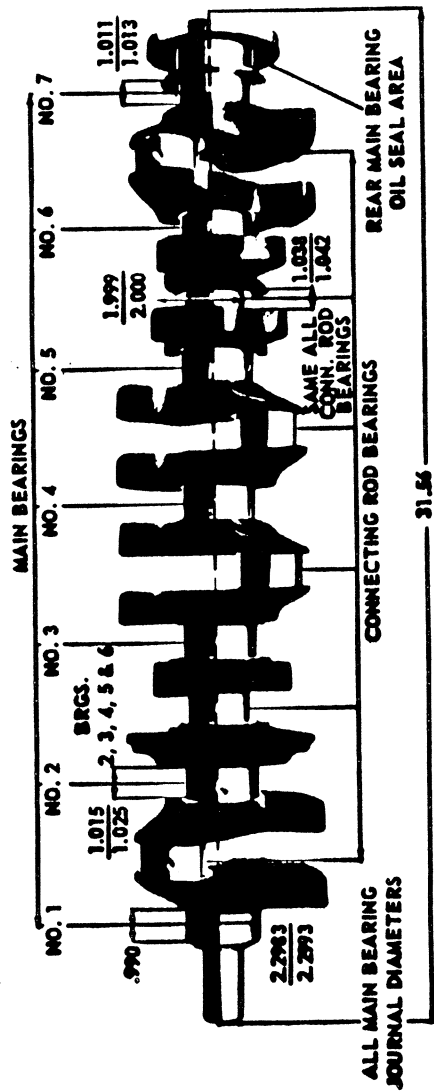
CRANKSHAFT

Material	
L6-250 Cu.in.	Cast nodular iron
V8-283 & 396 Cu.in.	Cast nodular iron
V8-327 & 427 Cu.in.	Forged steel
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, 396 & 427 Cu.in.	Rubber mounted inertia
Timing Gear	
L6	Steel, helical cut
V8	Steel; sprocket & chain
Pulley Pitch Diameter	6.64

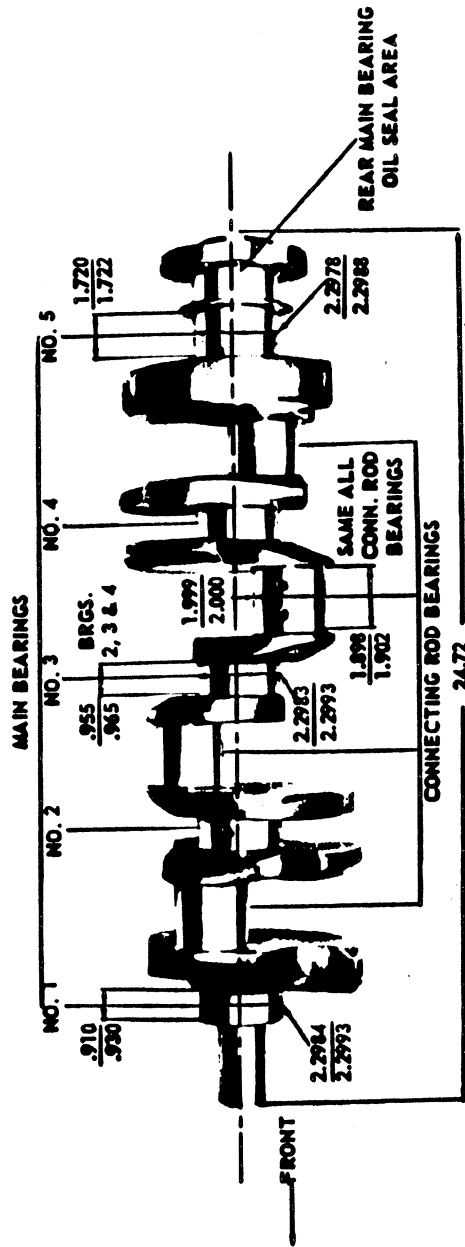
MAIN BEARINGS

Material	Steel, backed insert (selected bearing material - copper lead alloy or premium aluminum - for intended engine operation & application)
Type	Precision removable Thrust Against Bearing No. L6 - No. 7; V8 - No. 5
Clearance	
L6-250 Cu.in.	.0003-.0029
V8-283 & 327 Cu.in.	
No. 1	.0008-.0020
No. 2, 3 & 4	.0008-.0024
No. 5	.0015-.0031
V8-396 & 427 Cu.in.	
No. 1 & 2	.0010-.0020
No. 3 & 4	.0013-.0025
No. 5	.0015-.0031

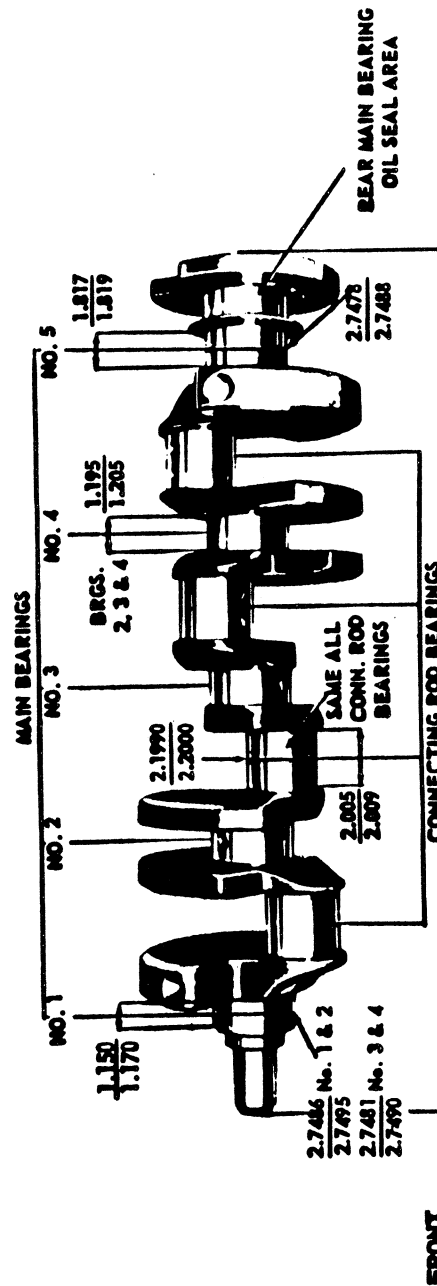
Dimensions	Theoretical Inner Dia.	Effective Length	Projected Area
L6-250 Cu.in.			
Bearing #1-6	2.3004	.752	1.7299
Bearing #7	2.3004	.760	1.7483
V8-283 & 327 Cu.in.			
Bearing #1	2.3003	.752	1.7298
Bearing #2, 3 & 4	2.3004	.752	1.7299
Bearing #5	2.3009	1.177	2.7081
V8-396 Cu.in.			
Bearing #1-4	2.7505	.992	2.7285
Bearing #5	2.7506	1.2525	3.4451
V8-427 Cu.in.			
Bearing #1-2	2.7507	.992	2.7287
Bearing #3-4	2.7505	.992	2.7285
Bearing #5	2.7506	1.2525	3.4451



283 and 327 CUBIC INCH V-8 ENGINES



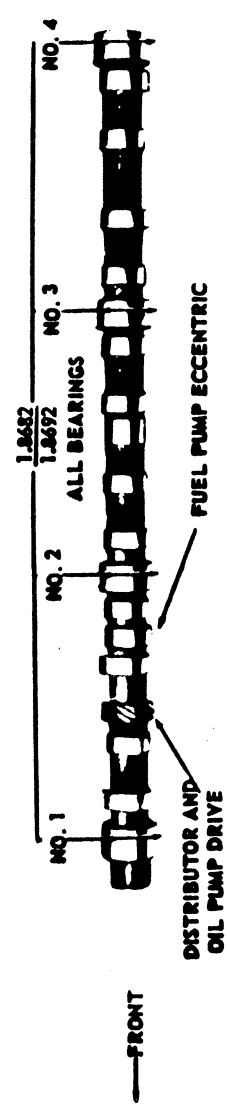
396 and 427 CUBIC INCH V-8 ENGINES



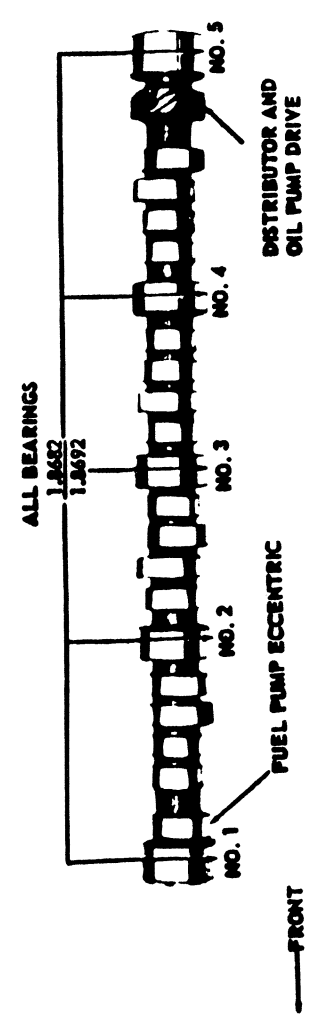
CAMSHAFT	
Material -----	Cast alloy iron
Drive -----	
L6 -----	Gear; bakelite and fabric composition with steel hub
V8 -----	Sprocket & chain; steel
Lobe Lift	
L6 -----	.2217 Inlet & Exhaust
V8-283 & 327 Cu.In. -----	.2600 Inlet; .2733 Exhaust
V8-396 Cu.In. -----	.2343 Inlet & Exhaust
V8-427 Cu.In. -----	.2714 Inlet; .2824 Exhaust
Bearings -----	Steel backed babbit
VALVE TRAIN	
Type -----	Individually mounted, overhead rocker arms, push rod actuated
Lifters -----	Hydraulic
Push Rods -----	
Type -----	Hollow steel
Ends -----	Hardened
Rocker Arms -----	
Material -----	Stamped steel
Ratio -----	
L6 -----	1.75:1
V8-283 & 327 Cu.In. -----	1.50:1
V8-396 & 427 Cu.In. -----	1.70:1
VALVE SPRINGS	
Diameter (I.D.) -----	
L6 -----	.872-.888
V8-283 Cu.In. -----	.868-.884
V8-327 Cu.In. -----	.868-.884
V8-396 & 427 Cu.In. -----	1.082-1.098
Installed Length (in. @ lb)	
Valves Closed -----	
L6 -----	1.66 @ 56-64
V8-283 & 327 Cu.In. -----	1.70 @ 76-84
V8-396 & 427 Cu.In. -----	1.88 @ 94-106
Valves Opened -----	
L6 -----	1.27 @ 180-192
V8-283 & 327 Cu.In. -----	1.25 @ 194-206
V8-396 & 427 Cu.In. -----	1.38 @ 303-327
Free Length	
L6 -----	1.90
V8-283 & 327 Cu.In. -----	2.03
V8-396 Cu.In. -----	2.09
V8-427 Cu.In. -----	2.09
Valve Spring Damper -----	
L6 -----	None
V8-283 Cu.In. -----	Flat steel, 4 coils
V8-327 Cu.In. -----	Flat steel, 4 coils
V8-396 & 427 Cu.In. -----	Flat steel, 3.62 coils

CAMSHAFT AND BEARINGS

250 CUBIC INCH L-6 ENGINE

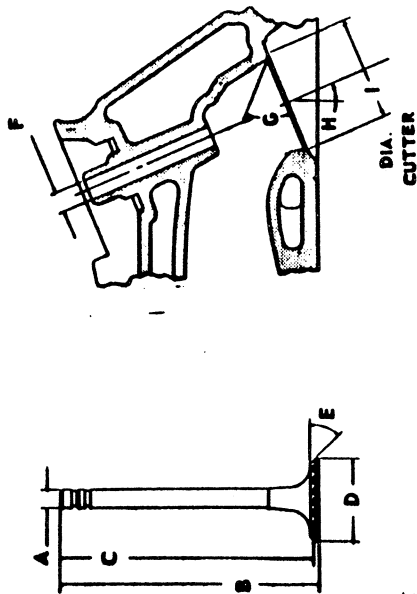


283 and 327 CUBIC INCH V-8 ENGINES



VALVES - INLET

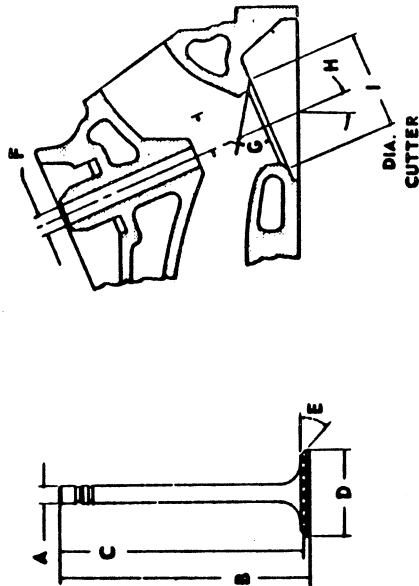
Material	Alloy steel
Coating	
L6, V8-283 & 327 Cu.In.	None
V8-396 & 427 Cu.In.	Face & head aluminized
Valve Guide Inserts (V8-396 & 427)	Cast alloy iron



A - Stem Diameter	
L6	.3410-.3417
V8-283 & 327	.3410-.3417
V8-396 & 427	.3715-.3722
B - Overall Length	
L6, V8-283	4.902-4.922
V8-327	4.870-4.889
V8-396 & 427	5.215-5.235
C - Gage Length	
L6	4.785-4.795
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 & 427	2.060-2.070
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	23°
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	2.150

VALVES - EXHAUST

Material	High alloy steel
Coating	
L6-250 Cu.In.	None
V8-283 & 327 Cu.In.	Aluminized face
V8-396 & 427 Cu.In.	Face & head aluminized
Valve Guide Inserts (V8-396 & 427)	Cast alloy iron



A - Stem Diameter	
L6	.3410-.3417
V8-283 & 327	.3713-.3720
V8-396 & 427	.3713-.3720
B - Overall Length	
L6	4.913-4.933
V8-283 & 327	4.913-4.933
V8-396 & 427	5.345-5.365
C - Gage 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	23°
V8-396 & 427	4°
I - Valve Seat (Cutter) Diameter	
L6	1.550-1.570
V8-283 & 327	1.550-1.570
V8-396 & 427	1.625

VALVE LIFT

L6 ----- .3880 Inlet & Exhaust
V8-283 & 327 Cu.In. ----- .9900 Inlet, .4100 Exhaust
V8-396 Cu.In. ----- .3983 Inlet & Exhaust
V8-427 Cu.In. ----- .4614 Inlet, .4800 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	28°	38°
Closes - ABC	72°	92°
Duration	280°	310°
Exhaust Valve (Zero lash)		
Opens - BBC	78°	88°
Closes - ATC	30°	52°
Duration	288°	320°

V8-396 Cu. In.	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	28°	40°
Closes - ABC	78°	102°
Duration	286°	322°
Exhaust Valve (Zero lash)		
Opens - BBC	73°	87°
Closes - ATC	31°	55°
Duration	286°	322°

V8-427 Cu. In.	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	88°	110°
Closes - ATC	32°	62°
Duration	300°	352°

PISTONS

Material ----- Cast aluminum alloy
L6 ----- Cast aluminum alloy
V8-283 & 327 Cu.In. ----- Cast aluminum alloy
V8-396 & 427 Cu.In. ----- Cast aluminum alloy
Head Type ----- Flat, notched
L6, V8-283 & 327 Cu.In. ----- Domed head, valve cutout
V8-396 & 427 Cu.In. ----- Slipper
Skirt Type -----
Top Land Clearance -----
L6 ----- .0345-.0435
V8-283 Cu.In. ----- .0345-.0435
V8-327 Cu.In. ----- .0365-.0455
V8-396 & 427 Cu.In. ----- .0305-.0375
Skirt Clearance -----
L6, V8-283 & 327 Cu.In. ----- .0005-.0011
V8-396 Cu.In. ----- .0007-.0013
V8-427 Cu.In. ----- .0009-.0015
Compression Ring Groove Depth -----
L6, V8-283 Cu.In. ----- .2153-.2218
V8-327 Cu.In. ----- .2217-.2283
V8-396 Cu.In. ----- .2253-.2318
V8-427 Cu.In. ----- .2348-.2413
Oil Ring Groove Depth -----
L6, V8-283 Cu.In. ----- .2093-.2158
V8-327 Cu.In. ----- .2038-.2103
V8-396 Cu.In. ----- .2098-.2168
V8-427 Cu.In. ----- .2183-.2248
Pin Bore Offset ----- .055-.065
Compression Height -----
L6 ----- 1.658-1.662
V8-283 Cu.In. ----- 1.799-1.801
V8-327 Cu.In. ----- 1.674-1.676
V8-396 Cu.In. ----- 1.953-1.957
V8-427 Cu.In. ----- 1.908-1.912

PISTON PINS

Material ----- Chromium steel
Length -----
L6, V8-283 & 327 Cu.In. ----- 2.990-3.010
V8-396 & 427 Cu.In. ----- 2.930-2.950
Diameter -----
L6, V8-283 & 327 Cu.In. ----- .9270-.9273
V8-396 & 427 Cu.In. ----- .9895-.9898
Clearance in Piston -----
L6, V8-283 & 327 Cu.In. ----- .00015-.00025
V8-396 Cu.In. ----- .00025-.00035
V8-427 Cu.In. ----- .00025-.00035
Pin Mounting ----- Locked in rod by shrink fit

COMPRESSION RINGS - UPPER

Material	Cast alloy iron
Type	-----
Face	-----
V8-283 & 327 Cu.In.	----- Tapered
L6 & V8-396 & 427 Cu.In.	----- Barrel
Coating	-----
L6, V8-283 & 327 Cu.In.	----- Chrome plate
V8-396 & 427 Cu.In.	----- Molybdenum inlay
Width	-----
L6	----- .0628-.0633
V8-283 & 327 Cu.In.	----- .0775-.0780
V8-396 & 427 Cu.In.	----- .0770-.0775
Wall Thickness	-----
L6	----- .184-.194
V8-283 Cu.In.	----- .179-.194
V8-327 Cu.In.	----- .190-.200
V8-396 Cu.In.	----- .194-.204
V8-427 Cu.In.	----- .202-.212
Gap	-----
L6 & V8-283 Cu.In.	----- .010-.020
V8-327 Cu.In.	----- .013-.023
V8-396 & 427 Cu.In.	----- .010-.020

COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Type	-----
Face	-----
degrees to piston vertical axis for	-----
L6 & V8-283; 50 degrees for V8-327	-----
& 396; 28-52 degrees for V8-427.	-----
Coating	----- Tapered
Width	----- Wear resistant
L6	----- .0623-.0625
V8-283 Cu.In.	----- .0770-.0780
V8-327, 396 & 427 Cu.In.	----- .0770-.0775
Wall Thickness	-----
L6 & V8-283 Cu.In.	----- .184-.194
V8-327 Cu.In.	----- .164-.170
V8-396 Cu.In.	----- .194-.204
V8-427 Cu.In.	----- .202-.212
Gap	-----
L6 & V8-283 Cu.In.	----- .010-.020
V8-327 Cu.In.	----- .013-.025
V8-396 & 427 Cu.In.	----- .010-.020
Expander (used with V8-327 Cu.In. 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	----- .1870-.1890
V8-283 & 327 Cu.In.	----- .1870-.1890
V8-396 & 427 Cu.In.	----- .1870-.1890
Wall Thickness	-----
L6	----- .152-.158
V8-283 & 327 Cu.In.	----- .150-.156
V8-396 & 427 Cu.In.	----- .137-.143
Gap	-----
L6	----- .015-.025
V8-283 & 327 Cu.In.	----- .015-.055
V8-396 & 427 Cu.In.	----- .010-.030
Rail Coatings	----- Chrome plated

CONNECTING RODS

Material	Drop forged steel
Length (center to center)	-----
L6	----- 5.699-5.701
V8-283 & 327 Cu.In.	----- 5.699-5.701
V8-396 & 427 Cu.In.	----- 6.130-6.140

CONNECTING ROD BEARINGS

Material	Copper lead alloy or sintered copper nickel backed babbitt on steel
L6 & V8-283 Cu.In.	-----
V8-327 Cu.In.	----- Premium aluminum
V8-396 & 427 Cu.In.	----- Premium aluminum
Type	Precision removable
Clearance	-----
L6	----- .0007-.0027
V8-283 & 327 Cu.In.	----- .0007-.0027
V8-396 & 427 Cu.In.	----- .0009-.0029
Theoretical I.D.	-----
L6 & V8-283 Cu.In.	----- 2.0016
V8-327 Cu.In.	----- 2.0017
V8-396 & 427 Cu.In.	----- 2.2014
Effective Length	-----
L6	----- .807
V8-283 & 327 Cu.In.	----- .807
V8-396 & 427 Cu.In.	----- .857
End Play	-----
L6	----- .009-.013
V8-283 & 327 Cu.In.	----- .009-.013
V8-396 & 427 Cu.In.	----- .016-.020

FUEL TANK

Capacity (Gal) ----- 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 -----
 L6-250 & V8-283 Cu.In. ----- Silvered bronze
 V8-327, 396 & 427 Cu.In. ----- Paper

FUEL PUMP ASSEMBLY

Type ----- Mechanical; diaphragm
 Drive ----- Camshaft, eccentric
 Location ----- Right side front of engine
 Pressure Range (at carburetor) -----
 L6-250 Cu.In. ----- 3.50-4.50 PSI
 V8-283 Cu.In. ----- 5.00-6.50 PSI
 ● V8-327 Cu.In. ----- 5.00-6.50 PSI
 V8-396 & 427 Cu.In. ----- 5.00-6.50 PSI

AIR CLEANER

Type ----- Cylindrical, single air horn
 Diameter -----
 L6-250 Cu.In. ----- 13.00
 V8-283 Cu.In. ----- 13.00
 V8-327, 396 & 427 Cu.In. ----- 16.78
 Filter Element ----- Oil-wetted paper

CARBURETORS

Make and Type -----
 L6-250 Cu.In. ----- Rochester, 1-barrel, downdraft
 V8-283 Cu.In. ----- Rochester, 2-barrel, downdraft
 V8-327 Cu.In. ----- Rochester, Quadrajet
 V8-396 & 427 Cu.In. ----- Rochester, Quadrajet
 SAE Flange Size -----
 L6-250 Cu.In. ----- 1.50
 V8-283 Cu.In. ----- 1.25
 V8-327, 396 & 427 Cu.In. ----- 1.50
 Throttle Bore -----
 L6-250 Cu.In. ----- 1.56
 V8-283 Cu.In. ----- 1.44
 V8-327 Cu.In. -----
 Primary ----- 1.38
 Secondary ----- 2.25
 V8-396 & 427 Cu.In. -----
 Primary ----- 1.38
 Secondary ----- 2.25
 Secondary Throttle Actuation ----- By linkage,
 approximately when primary valves are
 opened half way between closed and open
 Venturi Diameter -----
 L6-250 Cu.In. ----- 1.34
 V8-283 Cu.In. ----- 1.09
 V8-327 Cu.In. -----
 Primary ----- 1.09
 Secondary ----- Air valve
 V8-396 & 427 Cu.In. -----
 Primary ----- 1.09
 Secondary ----- Air valve

CHOKE

Type ----- Automatic

TYPE

L6-250 Cu.In. ----- Single
 V8-283 & 327 Cu.In. ----- Single with crossover pipes
 V8-396 Cu.In. ----- Single with crossover pipes
 V8-427 Cu.In. ----- Dual with resonators

MUFFLERS

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

Head
 L6-250 & V8-283 Cu.In. ----- .047 sheet steel,
 aluminumized
 V8-327 & 396 Cu.In. ----- .055 sheet steel, aluminumized
 V8-427 Cu.In. ----- .055 sheet steel, aluminumized
 Left hand ----- .055 stainless steel
 Right hand ----- .055 stainless steel

Shell
 L6-250 & V8-283 Cu.In. ----- .035 sheet steel,
 zinc coated
 V8-327 & 396 Cu.In. ----- .035 sheet steel, zinc coated
 V8-427 Cu.In. ----- .035 sheet steel, zinc coated
 Left hand ----- .035 stainless steel
 Right hand ----- .030 indented asbestos sheet
 Wrap ----- .018 sheet steel, aluminumized
 Cover ----- .035 stainless steel
 Baffles

L6-250 & V8-283 Cu.In. ----- #2-.035 zinc coated steel
 #1,3 & 4-.047 zinc coated steel
 V8-327 & 396 Cu.In. ----- #1 & 4-.047 zinc coated steel
 #2 & 3-.035 zinc coated steel
 V8-427 Cu.In.(left) ----- #1 & 4-.047 zinc coated steel
 #2 & 3-.035 zinc coated steel
 V8-427 Cu.In.(right) ----- #1-4-.035 stainless steel

EXHAUST CROSSOVER PIPE

Dimensions (O.D.)
 V8-283 & 327 Cu.In. ----- 2.00
 V8-396 Cu.In. ----- 2.50
 Wall Thickness
 V8-283 & 327 Cu.In. ----- .073-.091 laminated
 V8-396 Cu.In. ----- .052-.098 laminated

EXHAUST PIPE

Dimensions (O.D.)
 L6-250 & V8-283 Cu.In. ----- 2.00
 V8-327, 396 & 427 Cu.In. ----- 2.50
 Wall Thickness
 L6-250 Cu.In. ----- .057-.071
 V8-283, 327, 396 & 427 Cu.In. ----- .073-.091 laminated

RESONATORS (V8-427 Cu.In. only)

Type ----- Straight through
 Cover ----- .035 stainless steel
 Heads ----- .047 stainless steel

TAIL PIPES

Dimensions (O.D.) ----- 1.875; V8-427-2.00
 Wall Thickness ----- .062-.076

ENGINE VENTILATION

All Engines ----- Positive-type;
 Fresh air metered into the engine through
 the oil filler cap, air breather cap on V8-
 396 & 427. Unburned fumes drawn into the
 induction system, controlled by a regulating
 valve, and burned in the combustion chamber
 and expelled through the exhaust system.

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)

GENERAL

Type ----- Controlled full pressure
Main Bearings ----- Pressure
Connecting Rods ----- Pressure
Piston Pins ----- Splash
Cylinder Walls -----
L6-250 ----- Main and conn. rod bearing throwoff
V8-283, 327, 396 & 427 ----- Pressure,
jet cross sprayed
Camshaft Bearings ----- Pressure
Valve Lifters ----- Pressure
Rocker Arms ----- Pressure
Timing Gears ----- Pressure
L6 ----- Nozzle sprayed
V8 ----- Centrifugally oiled from front
camshaft bearing

Oil Pressure Sending Unit

Type ----- Electric
Actuation ----- Opens or closes circuit @ 2 to 6 PSI
Oil Filler
Cap

L6-250, V8-283 & 327 ----- Oil wetted
crimped aluminum breather
V8-396 & 427 ----- Positive seal
Location
L6-250 ----- 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
L6-250, V8-283 & 327 ----- 4
V8-396 & 427 ----- 4
Refill with Filter Change
L6-250, V8-283 & 327 ----- 5
V8-396 & 427 ----- 5

● LUBRICANT GRADES AND TEMPERATURES

32° F and Above ----- SAE 20W or SAE 10W-30
0° F to 32° F ----- SAE 10W or SAE 10W-30
Below 0° F ----- SAE 5W or SAE 5W-20
Alternate ----- SAE 5W-30 can be used
at temperatures below freezing

OIL PUMP

Type ----- Gear
Regulator Valve ----- Opens between 40-45 lbs
Oil Pressure (no flow conditions)
L6-250, V8-283 & 327 ----- 30-45 PSI @ 1500 RPM
V8-396 & 427 ----- 50-75 PSI @ 2000 RPM
Intake Type ----- Fixed pickup with screen
Capacity (GPM @ Engine RPM) (Theoretical)
L6-250 ----- 4.3 @ 2000
V8-283 & 327 ----- 4.3 @ 2000
V8-396 & 427 ----- 6.0 @ 2000

OIL FILTER

Type -----
L6 ----- Pull 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

GENERAL

Type	----- Liquid, pressurized
Capacity with Heater (Standard Equipment)	-----
L6-250 Cu.In.	12 Qts
V8-283 Cu.In.	17 Qts
V8-327 Cu.In.	15 Qts
V8-396 Cu.In.	22 Qts
V8-427 Cu.In.	22 Qts

RADIATOR

Make and Type	----- Harrison, tube and center
Core Constant and Thickness	-----
Distance between Fins	-----
L6-250 Cu.In.	.28 (Syn) .22 (P/gld)
V8-283 Cu.In.	.25 (Syn) .18 (P/gld)
V8-327 Cu.In.	.22 (Syn) .18 (P/gld)
V8-396 Cu.In.	.22
V8-427 Cu.In.	.22
Distance between Tubes	.55
Thickness of Core	-----
L6-250 Cu.In.	1.26
V8-283, 327 & 396 Cu.In.	1.26
V8-427 Cu.In.	1.75
Frontal Area (Sq.In.)	-----
L6-250 Cu.In.	323
V8-283 & 327 Cu.In.	357
V8-396 Cu.In.	429
V8-427 Cu.In.	429

RADIATOR, HEAVY DUTY (RPO V01)

Core Constant and Thickness	-----
Distance between Fins	-----
L6-250 Cu.In.	.22
V8-283 Cu.In.	.22 (Syn) .20 (P/gld)
V8-327 Cu.In.	.18 (Syn) .16 (P/gld)
V8-396 & 427 Cu.In.	.16
Distance between Tubes	.55
Thickness of Core	1.75
Frontal Area (Sq.In.)	-----
L6-250 Cu.In.	404
V8-283 & 327 Cu.In.	429
V8-396 & 427 Cu.In.	429

RADIATOR CAP RELIEF VALVE

Opens at ----- Approximately 15 PSI

THERMOSTAT

Type	----- Pellet
Begins to Open at	192°-198° for L6 177°-188° for V8
Fully Opened at	227° for L6 212° for V8
Thermostat By-Pass Hose (V8-396 & 427)	----- .745 ID

RADIATOR HOSE

Outlet, Lower (Radiator to Water Pump)	-----
L6-250, 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	----- 4
Diameter	----- 17.62
Fan Pulley Pitch Diameter	----- 7.00

BELTS, CRANKSHAFT, FAN AND GENERATOR

Number Used	----- One
Angle of "V"	----- 38°-42°
Pitch Line	-----
L6-250 Cu.In.	39.00
V8-283 & 327 Cu.In.	53.25
V8-396 Cu.In.	56.20
V8-427 Cu.In.	56.20
Width	----- .380

WATER PUMP

Type	----- Centrifugal
Capacity	-----
L6-250 Cu.In.	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 - Plug	-----
All Engines	----- Lower right side of radiator
Engine Block - Plug	-----
L6-250 Cu.In.	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

SUPPLY SYSTEM

BATTERY

Voltage rating ----- 12
Capacity (SAE) -----
L6-250 & V8-283 ----- 45 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 -----
L6-250 & V8-283 ----- 34
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 -----
L6-250 & V8-283 ----- 58-87
V8-327 ----- 65-100
V8-396 & 427 ----- 70-99
Volts ----- 10.6
RPM -----
L6-250 & V8-283 ----- 8450-10700
V8-327 ----- 3600-5100
V8-396 & 427 ----- 7800-12000

Motor drive

Engagement ----- Solenoid
Pinion meshes at ----- Rear
Pinion tooth no. ----- 9
Flywheel tooth no. ----- 153; V8-396 & 427 --- 168
Mounting ----- Bolted to
L6, V8-283 & 327 ----- cylinder block flange
V8-396 ----- Bolted to clutch housing

IGNITION SYSTEM

DISTRIBUTORS ----- Refer to chart below

COIL

Type ----- 12-Volt
Amperes drawn -----
Engine stopped ----- 4.0
Engine idling ----- 1.8

SPARK PLUGS

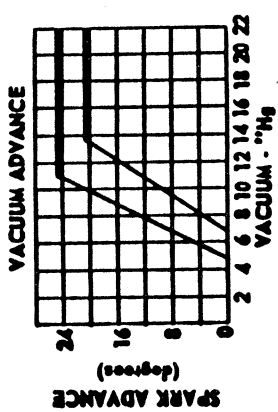
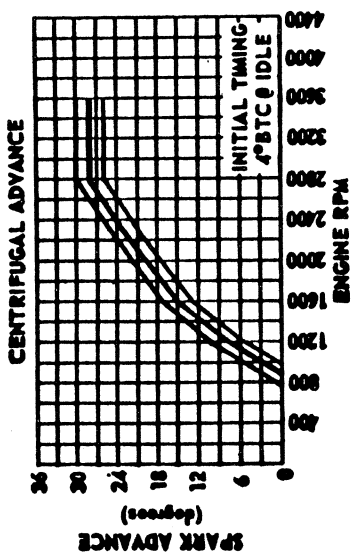
Type -----
L6-250 ----- AC 46N (Long reach)
V8-283 ----- AC 45
V8-327 ----- AC 44
V8-396 & 427 ----- AC 43N
Thread size (mm) ----- 14
Cap ----- .033-.038
Torque ----- 25 lb ft

CABLE

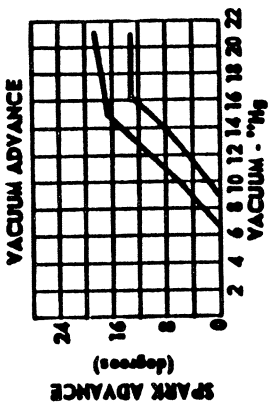
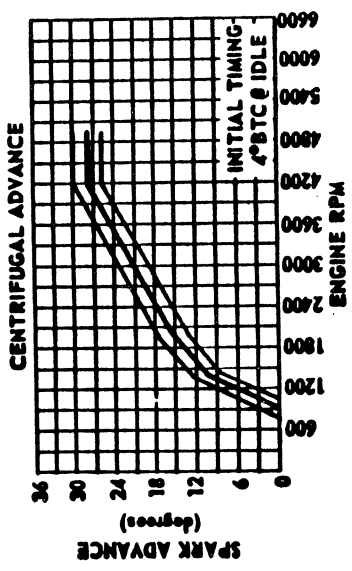
----- Lead core impregnated
with electrical conducting material and
insulation of rubber with neoprene jacket

DISTRIBUTORS						
	L-6	V-8	V-8	V-8	V-8	V-8
	250 Cu.in. 155 HP	283 Cu.in. 195 HP	327 Cu.in. 275 HP	396 Cu.in. 325 HP	427 Cu.in. 385 HP	
Model	1110351	1111150	1111249	1111169	1111170	
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	32 @ 5000	32 @ 5000	
Vacuum advance begins (in. Hg)	6.00	8.00	8.00	8.00	7.00	
Max degrees @ in. Hg	21 @ 14.5	15 @ 15.5	15 @ 15.5	15 @ 15.5	12 @ 12	
Timing (initial design setting)	4° BTDC	4° BTDC	8° BTDC	4° BTDC	4° BTDC	
Crankshaft degrees @ RPM	500	500	500	500	550	
(with vacuum line disconnected)						
Timing mark location	Harmonic balancer					

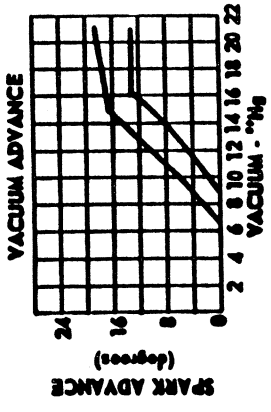
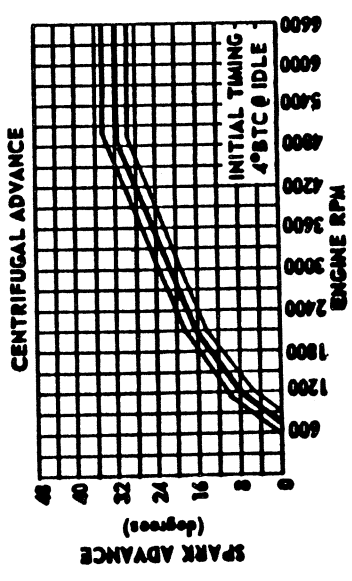
250 CUBIC INCH L-6 ENGINE



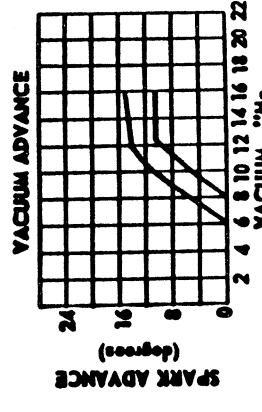
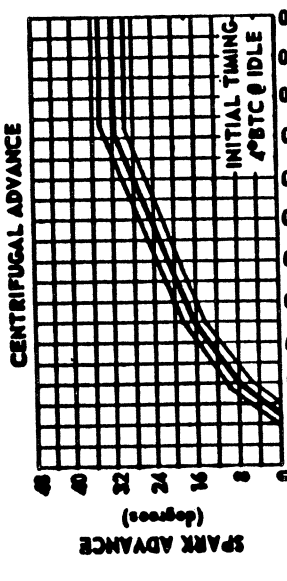
283 CUBIC INCH V-8 ENGINE

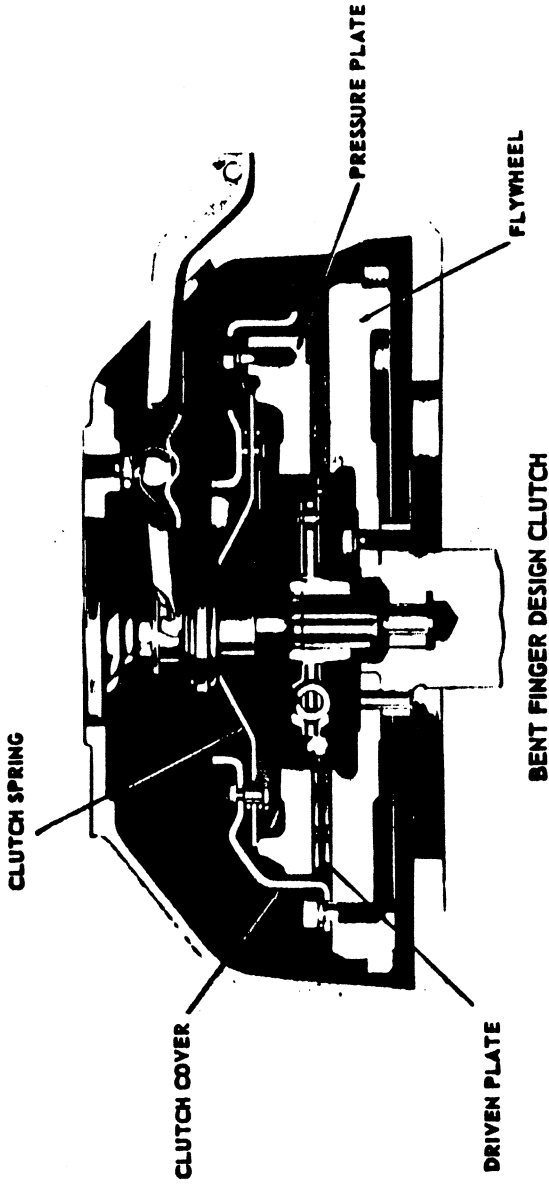


396 CUBIC INCH V-8 ENGINE



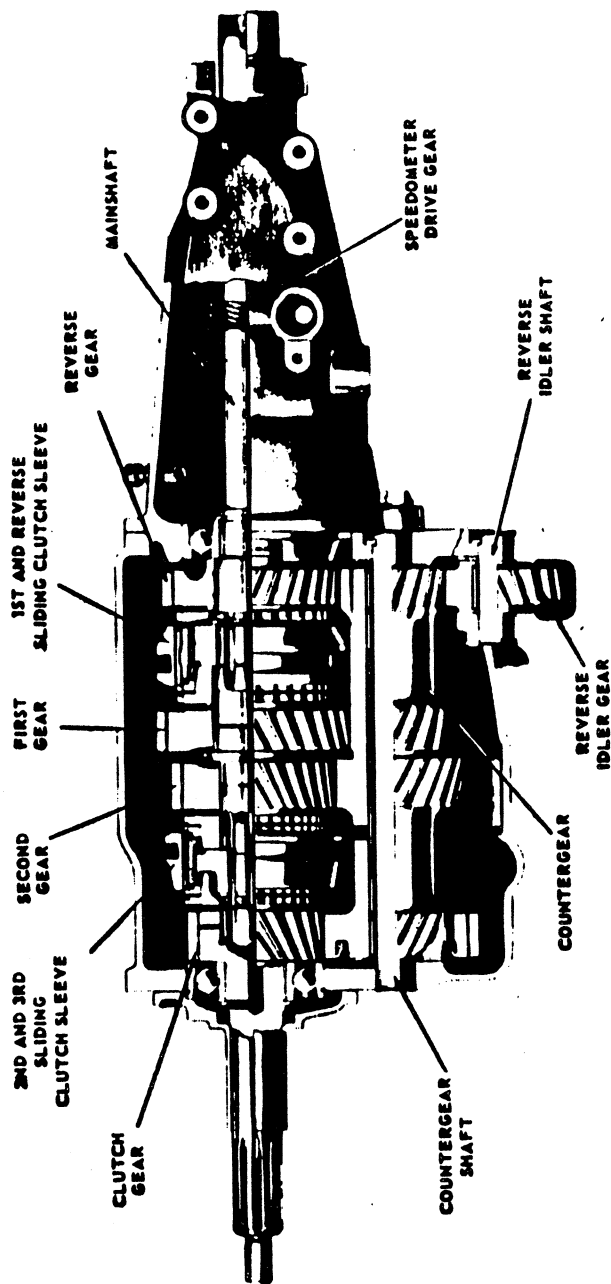
427 CUBIC INCH V-8 ENGINE





Engine	Type - Cubic Inch	L6-250	V8-283	L6-250 V8-283	V8-283	V8-327	V8-396	V8-427
Availability	Base	Base	Base	M01*	Z04**	RPO L30 RPO M01	RPO L35 RPO L36	H.D. 3-Speed & 4-Speed
Clutch for	3-Speed	4-Speed	3-Speed & 4-Speed	Single dry disc, centrifugal	2100-2300	2450-2750	2600-2800	
Type	Single dry disc	Single dry disc	Single dry disc	Single dry disc	Single dry disc	Single dry disc	Single dry disc	Single dry disc
Clutch cover & pressure plate	Eff. plate load, lbs.	1650-1850	1750-2000	1700-1950	Cast iron	Modular iron	Cast iron	Cast iron
Clutch spring type	Clutch spring type	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm	Diaphragm
Clutch spring matl.	Clutch spring matl.	Heat treated spring steel	Heat treated spring steel	Heat treated spring steel	Heat treated spring steel	Heat treated spring steel	Heat treated spring steel	Heat treated spring steel
Type	Type	Single disk with two friction surfaces	Single disk with two friction surfaces	Single disk with two friction surfaces	Single disk with two friction surfaces	Single disk with two friction surfaces	Single disk with two friction surfaces	Single disk with two friction surfaces
Cushions	Cushions	Flat spring steel between friction rings	Flat spring steel between friction rings	Flat spring steel between friction rings	Flat spring steel between friction rings	Flat spring steel between friction rings	Flat spring steel between friction rings	Flat spring steel between friction rings
Damper	Damper	(a)	12 coil springs (6 sets of two)	10 coil springs (5 sets of two)	10 coil springs (5 sets of two)	10 coil springs (5 sets of two)	10 coil springs (5 sets of two)	10 coil springs (5 sets of two)
Friction ring	Friction ring	OD	9.12	10.0	11.0	10.4	11.0	11.0
		ID	6.12	6.5	6.5	6.5	6.5	6.5
		Total area sq.in.	71.82	90.71	123.70	103.53	123.7	123.7
Flywheel & Ring gear	Flywheel & Ring gear	Material	Material	Material	Material	Material	Material	Material
		Material	Material	Material	Material	Material	Material	Material
		No. of teeth	153	153	153	153	153	153
		PD	12.75	12.75	12.75	12.75	12.75	12.75
		Attachment	Attachment	Attachment	Attachment	Attachment	Attachment	Attachment
		Type	Type	Type	Type	Type	Type	Type
		Lubrication	Lubrication	Lubrication	Lubrication	Lubrication	Lubrication	Lubrication
		Type	Type	Type	Type	Type	Type	Type
		Lubrication	Lubrication	Lubrication	Lubrication	Lubrication	Lubrication	Lubrication
Clutch fork	Clutch fork	Drop forged steel, pivot mounted on ball	Drop forged steel, pivot mounted on ball	Drop forged steel, pivot mounted on ball	Drop forged steel, pivot mounted on ball	Drop forged steel, pivot mounted on ball	Drop forged steel, pivot mounted on ball	Drop forged steel, pivot mounted on ball
Pedal mounting	Pedal mounting	Pendant, from brace on dash	Pendant, from brace on dash	Pendant, from brace on dash	Pendant, from brace on dash	Pendant, from brace on dash	Pendant, from brace on dash	Pendant, from brace on dash
Lubrication	Lubrication	Crossover shaft	Crossover shaft	Crossover shaft	Crossover shaft	Crossover shaft	Crossover shaft	Crossover shaft
Clutch housing material	Clutch housing material	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy

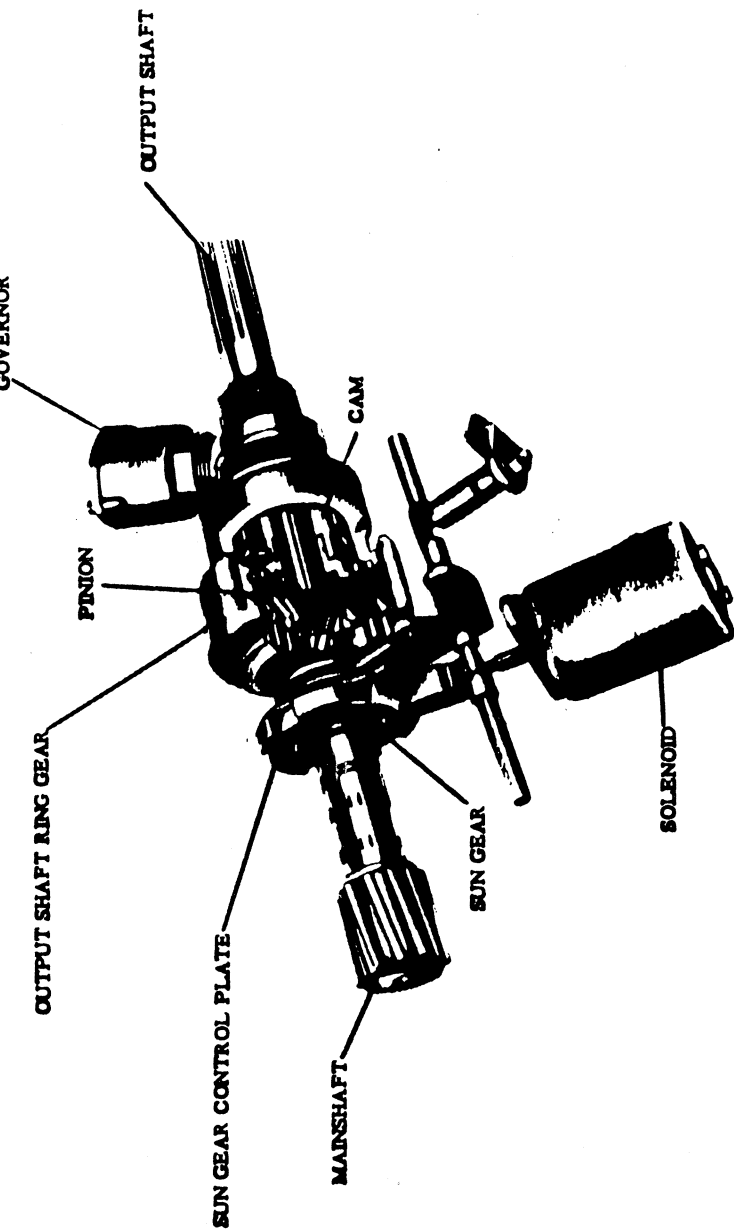
* M01 - Option for Heavy Duty Clutch
 ** Z04 - Option for Heavy Duty Clutch



3-SPEED HEAVY DUTY TRANSMISSION (RPO-M13)

3-SPEED AND 4-SPEED TRANSMISSIONS

Transmission Type		3-Speed		H.D. 3-Speed		4-Speed	
Engine	Type	L-6	V-8	V-8	V-8	V-8	V-8
Application	Availability	250 C.I. 283 C.I. Standard	327 C.I. 396 C.I. RPO L30 RPO L33 RPO L36	327 C.I. 396 C.I. Standard RPO L30 RPO L33 RPO L36	327 C.I. 396 C.I. Standard RPO L30 RPO L33 RPO L36	327 C.I. 396 C.I. Standard RPO L30 RPO L33 RPO L36	327 C.I. 396 C.I. Standard RPO L30 RPO L33 RPO L36
Cast material		Cast iron					
Gears	Type	Remote					
	Control	Lever					
	Location	Steering column					
	Type	Helical					
	Material	Forged steel, hardened					
Gears	Synchronization	All forward gears					
	Constant mesh gear	All gears					
	Sliding gears	None					
	First	2.85	2.54	2.41	3.11	2.54	2.20
	Second	1.68	1.50	1.57	2.20	1.80	1.64
Ratios	Third	1.00	1.00	1.00	1.47	1.44	1.27
	Fourth				1.00	1.00	1.00
	Reverse	2.95	2.63	2.41	3.11	2.54	2.26
Type		Meeting Military Specifications MIL-L-2105-B					
Capacity (gals)		3					
Material		Cast iron					
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-ridden by a downshift switch located at the carburetor and controlled by the accelerator pedal; over-riding achieved by tripping accelerator.

Lubricant Type ----- Meeting Military

Specification MIL-L-2105-B

Viscosity ----- SAE 80

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

Gear ratios with overdrive locked in

First ----- 1.995

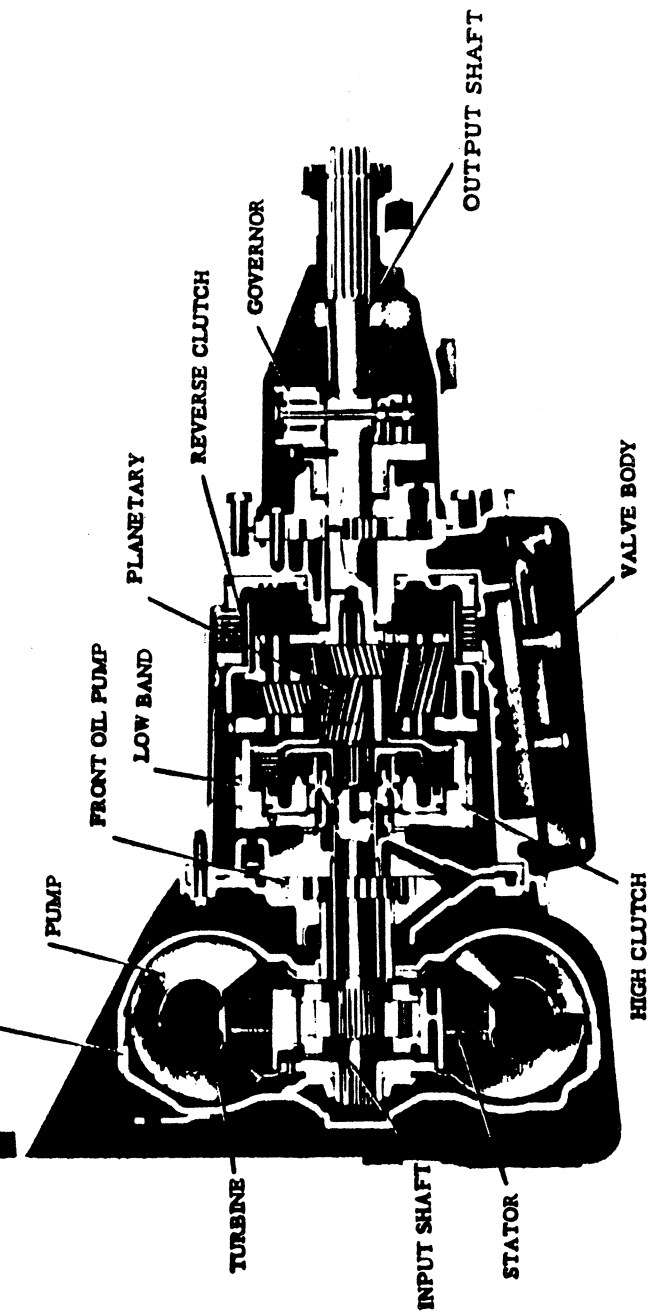
Second ----- 1.176

Third ----- 0.700

Output shaft R.P.M.

Car-in ----- 1440

Car-out ----- 1100



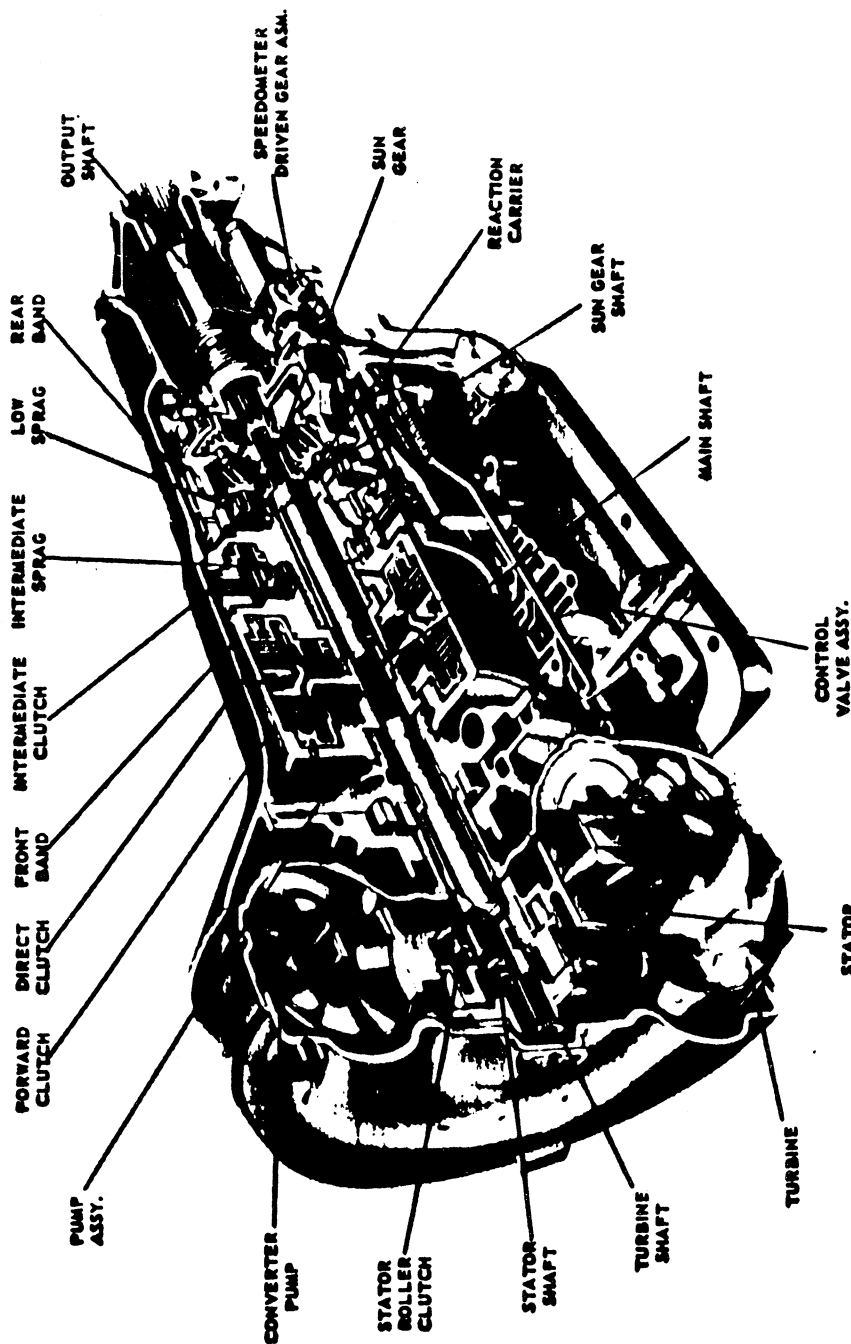
AUTOMATIC TRANSMISSION (RPO M35)

Engine	Type	L-6	V-8	V-8	V-8
	Availability	250 Cu.In.	Standard	327 Cu.In.	396 Cu.In.
	Type			RPO L30	RPO L35
General data	Selector lever	Automatic hydraulic torque converter with planetary gear system for low and reverse			
	Parking lock	Steering column (a)			
	Method of cooling	Operates manual valve in hydraulic control system			
	Flywheel assembly	P-R-N-D-L			
	Manual valve type	Pawl and gear (on planetary)			
	Pressure regulator valve type	Applied by selector lever thru spring loaded linkage			
	Pressure @ Idle (b)	Water			
Hydraulic	Type	Steel stamping with welded on ring gear			
	Drive	Spool			
	Low	Spool			
	Reverse	Spool			
Converter assembly	Type	Three element			
	Pump	Inner and outer sheet steel shells separated by sheet steel vanes. Outer shell is pump housing which is welded to converter housing.			
	Turbine	Inner and outer shells separated by sheet steel vanes. Assembly supported in converter cover.			
	Stator	Operation independent of cover and pump housing. Aluminum air foil supported on a stationary sleeve by an over-running clutch of cam and roller design.			
Planetary gear set	Scale torque ratio	2.10			
	Scale speed (RPM)	1620 1530 1680 1880			
	Diameter (nominal)	11.0 11.75			
	Type	Compound planetary			
Case	Range	1.82 to 1.00 1.76 to 1.00			
	Low band	1.82 1.76			
	Low band servo	Three linked circular segments			
	Material	Piston with release spring and inner cushion spring Aluminum (one piece)			

(a) Floor mounted when used with bucket seats.

AUTOMATIC TRANSMISSION —CONTINUED

Engine	Type	L-6 250 Cu.In.	V-8 283 C.In.	V-8 327 Cu.In.	V-8 396 Cu.In.
Output shaft RPM and vehicle speed (MPH)	Availability	Standard		RPO L30	RPO L35
	N/V factor	42.9	42.9	39.4	39.2
	Closed throttle	650(15)	650(15)	660(17)	660(17)
	Throttle at detent	1970(45)	2085(48)	2340(59)	2340(59)
	Full throttle	2285(55)	2405(56)	2740(65)	2740(70)
	Closed throttle	605(14)	605(14)	610(16)	615(16)
Downshift	Throttle at detent	1220(28)	825(19)	882(22)	880(23)
	Full throttle	2135(50)	2270(53)	2583(66)	2585(65)
High clutch	Type	Multi-disc			
	Drive plates	Waved steel with bonded organic facings			
	Driven plates	3		4	
Reverse clutch	Type	Multi-disc			
	Drive plates	Flat steel with bonded organic facings			
	Reaction plates	4	4	5	6
Torque multiplication	Type	Multi-disc			
	Drive plates	Flat steel with bonded organic facings			
	Reaction plates	3	4	5	6
Lubricant	Maximum overall ratio	3.82			
	Low and reverse	3.82 to 1.82			
Governor	Type	A suffix A			
	Capacity (psi)	17		19	
Oil pump	Type	Centrifugal			
	Operation	Regulates pump oil pressure to automatic shift control valve			
Drive	Location	Mounted on output shaft			
	Type	In extension			
Function	Number	Internal-external gear			
	Drive	One; front			
Oil pump	Type	To supply pressure			
	Drive	Converter pump			



TURBO HYDRA-MATIC TRANSMISSION (RPO M40)

(Available with 327 Cu.In., 396 Cu.In.
and 427 Cu.In. engines 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 ----- Actuates automatic
controls by a hydraulic system
from a pressurized gear type pump

Quadrant 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 trans-
mission and assures smooth shifts

Detent 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

Parting Lock
Type ----- Locking pawl
Operation ----- Applied by
selector lever through manual linkage

Method of Cooling ----- Water

TORQUE CONVERTER

Driving Member (Pump) ----- Multivane
type, sheet 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

Stall Ratio ----- 2.30 (V8-327); 2.04 (V8-396 & 427)

Stall Speed (RPM)
V8-327 ----- 2130
V8-396 ----- 2110
V8-427 ----- 2220

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
Lo 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 that
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

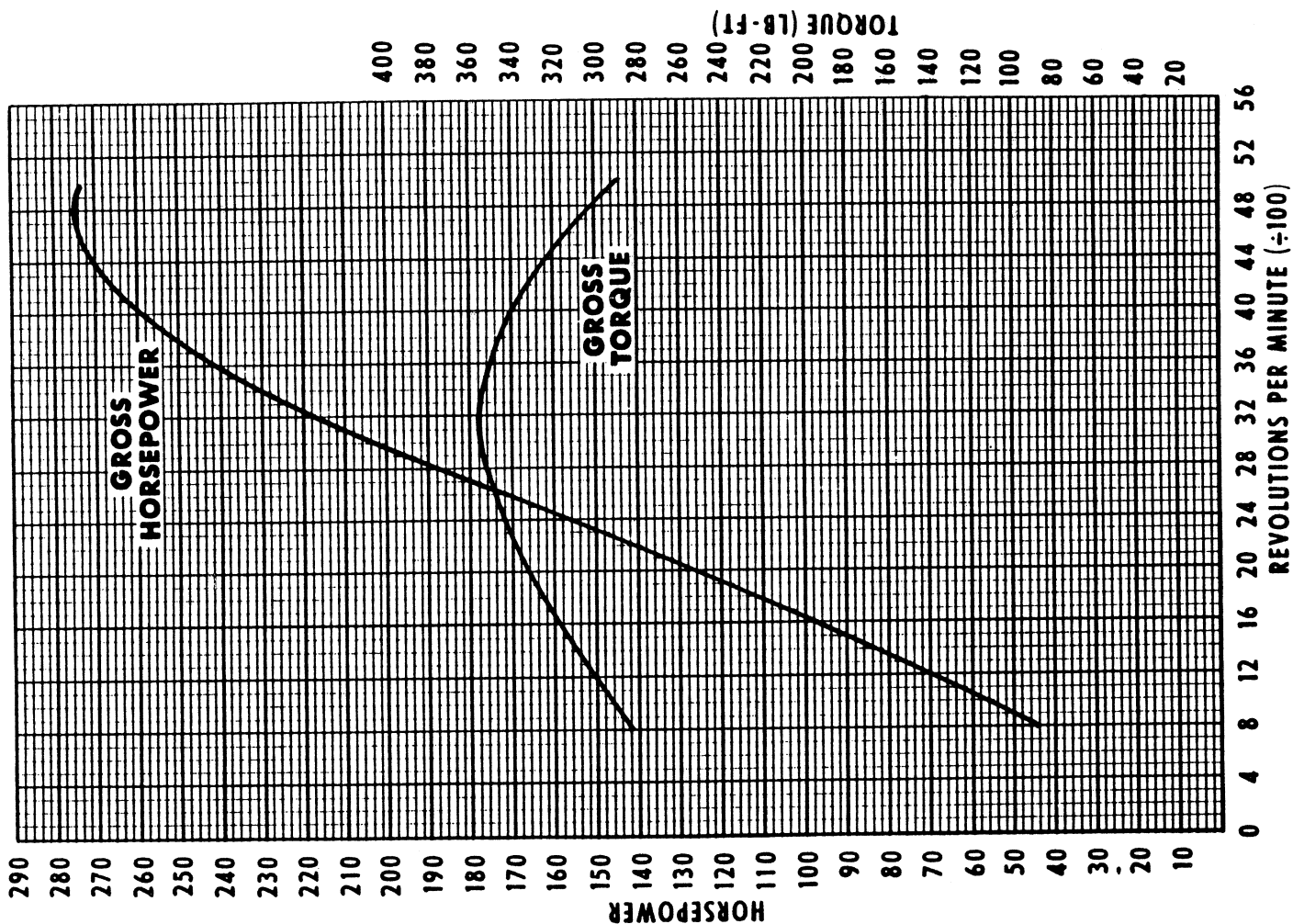
LUBRICANT

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

• TORQUE MULTIPLICATION

	V8-327	V8-390 & 427
Drive (maximum)	5.70:1 to 1.1	5.06:1 to 1.1
Low 2	5.70:1 to 1.48	5.06:1 to 1.48
Low 1	5.70:1 to 2.48	5.06:1 to 2.48
Reverse	4.78:1 to 2.08	4.24:1 to 2.08

1967 Turbo-Fire 327
 Chevrolet RPO L30
 4-Barrel Carburetor
 327 CID

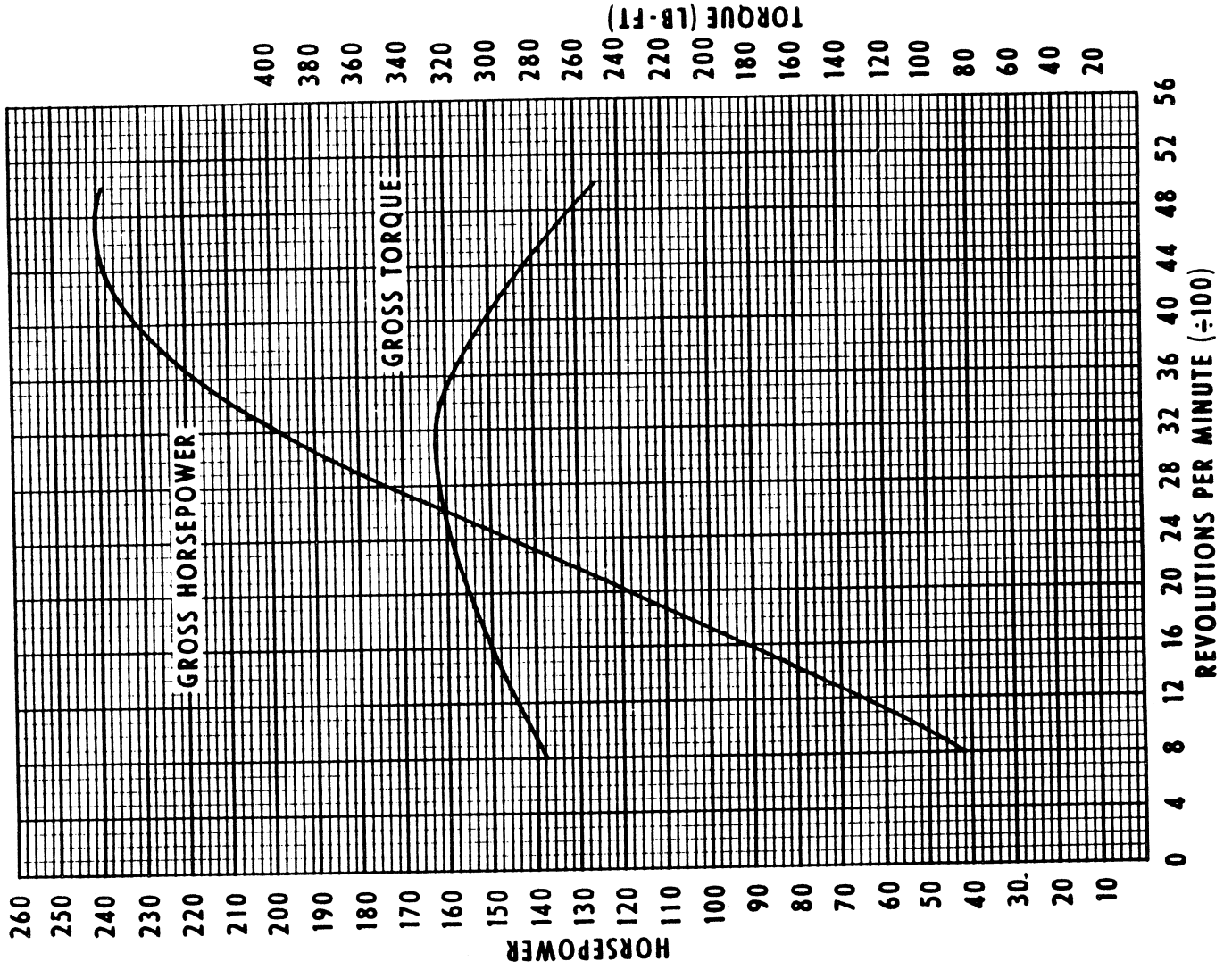


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 Engineering Center
 Chevrolet Motor Division

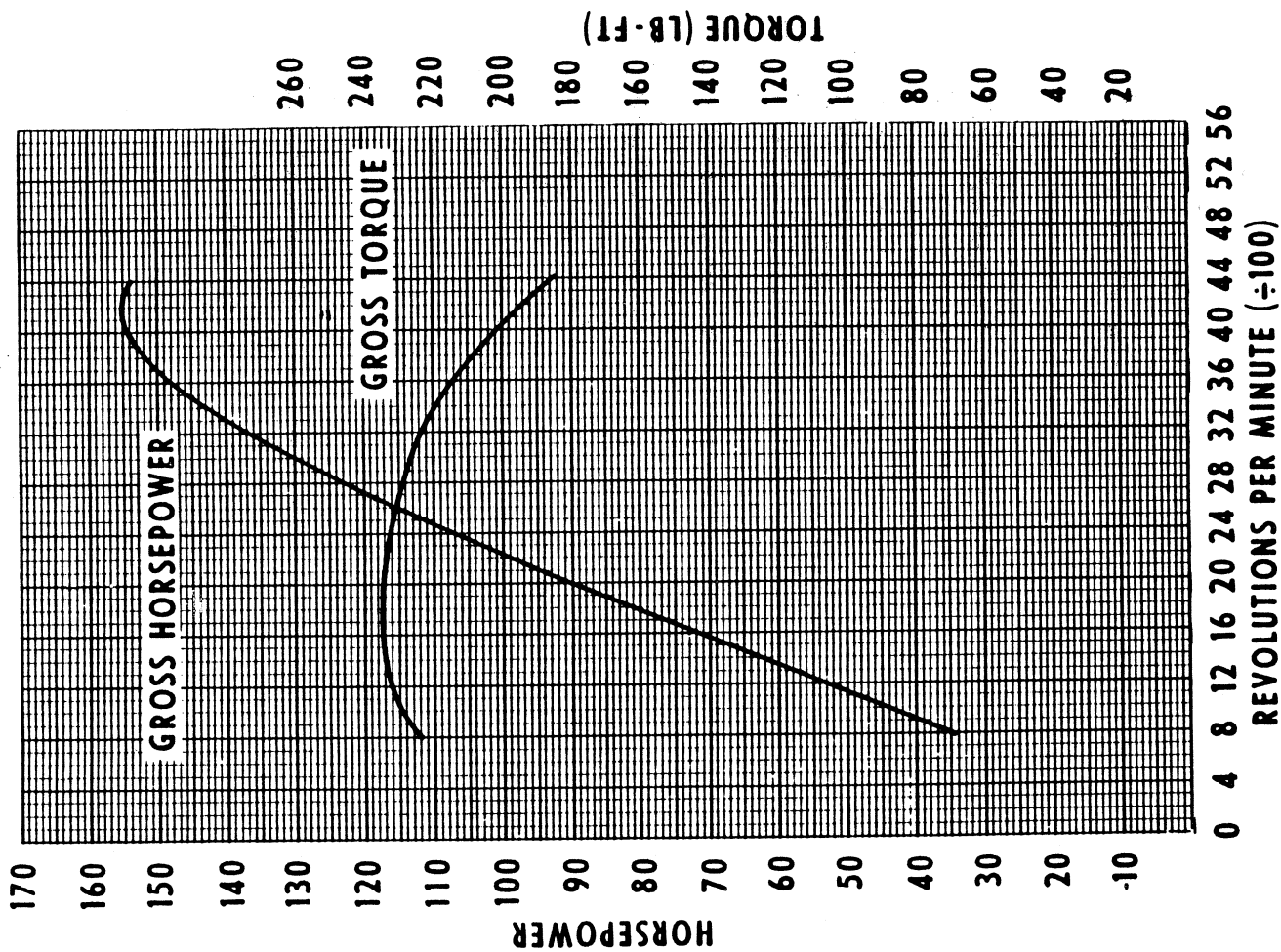
State of Michigan
 County of Macomb

On this 3rd day of October 1966 personally
 appeared before me D. H. McPherson, known to me to be such, who makes
 oath that the data on this sheet are true as represented.

1967 Turbo-Fire 327
 Chevrolet COPO V-8 Engine
 4-Barrel Carburetor
 327 CID



1967 Turbo-Thrift 230
Chevrolet Base L-6 Engine
1-Barrel Carburetor
250 CID

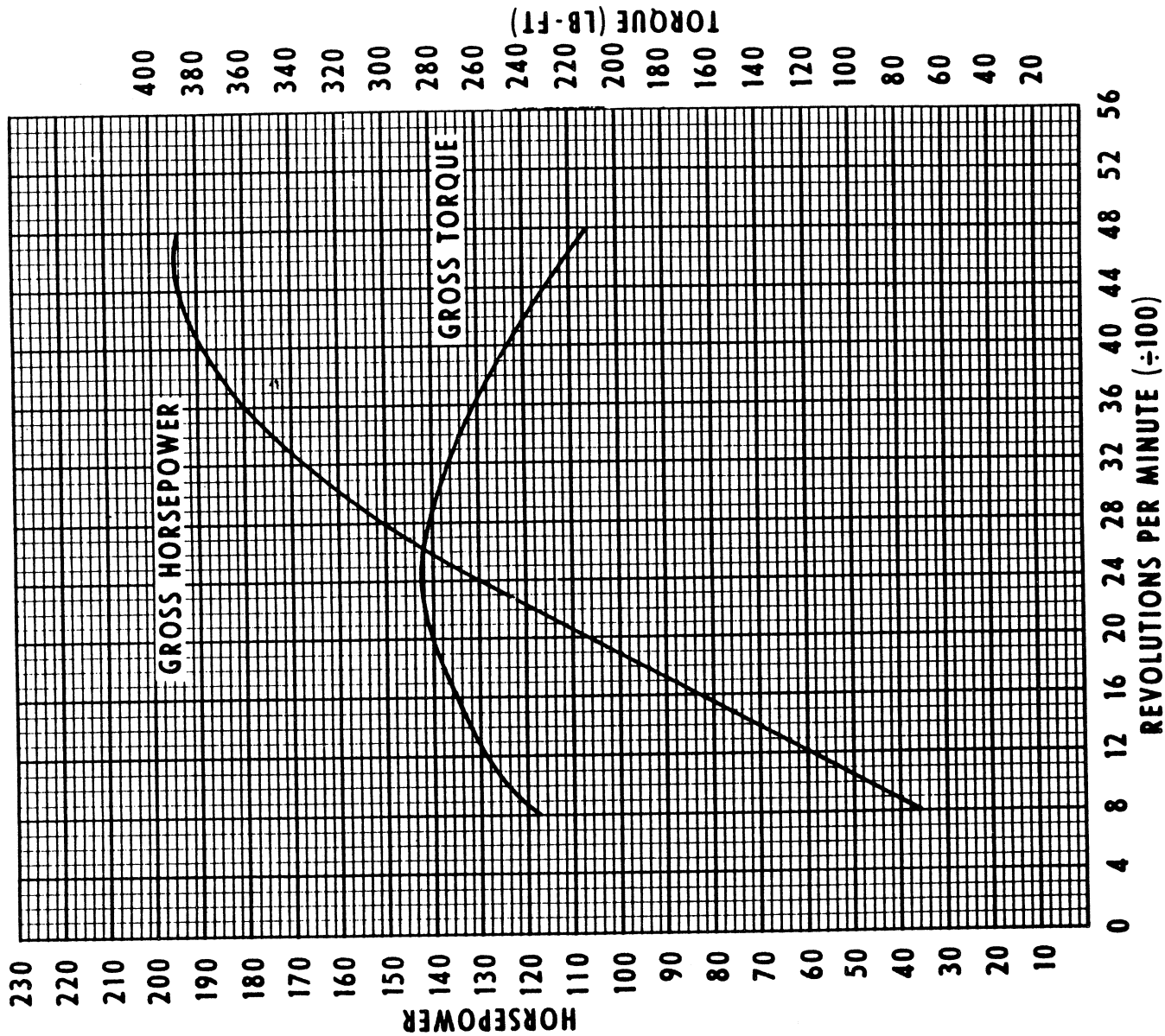


The data on this sheet are true as represented.
Engineering Center
Chevrolet Motor Division

State of Michigan
County of Macomb

On this 3rd day of October 1966 personally
appeared before me D. H. McPherson, known to me to be such, who makes
oath that the data on this sheet are true as represented.

Chevrolet Base V-8 Engine
2-Barrel Carburetor
283 CID



State of Michigan
County of Macomb
On this 25 day of August 1966 personally
appeared before me D. H. McPherson, known to me to be such, who makes
oath that the data on this sheet are true as represented.

The data on this sheet are true as represented.
Engineering Center
Chevrolet Motor Division
General Motors Corporation

ected to the manufacturer whose address is shown below. This Uniform Specification Form was developed by the
Automobile Manufacturers Association.

MANUFACTURER	Chevrolet Motor Division	CAR NAME	CHEVROLET
	General Motors Corporation		
MAILING ADDRESS	Chevrolet Engineering Center	MODEL YEAR	ISSUED: 10-7-66
30003 Van Dyke Warren Michigan 48090		1967	REVISED (a)

NOTES:

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

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 SEATING CAPACITIES—		Body type, number of passenger & style names; use manufacturer's code for series & body style.	
BISCAYNE		327 Cu. In.	427 Cu. In.
2-Door Sedan - 6-Passenger		V-8 275 HP	V-8 385 HP
4-Door Station Wagon - 2-Seat		Optional (L30)	Optional (L35)
4-Door Sedan - 6-Passenger			
BEL AIR			
2-Door Sedan - 6-Passenger			15411
4-Door Station Wagon - 2-Seat			15435
4-Door Station Wagon - 3-Seat			15469
4-Door Sedan - 6-Passenger			
IMPALA			
4-Door Station Wagon - 2-Seat			15611
4-Door Sport Sedan - 6-Passenger			15635
4-Door Station Wagon - 3-Seat			15645
2-Door Convertible - 5-Passenger			15669
4-Door Sedan - 6-Passenger			
2-Door Sport Coupe - 5-Passenger			
IMPALA SUPER SPORT			
2-Door Convertible - 4-Passenger			16435
2-Door Sport Coupe - 4-Passenger			16439
CAPRICE			
4-Door Station Wagon - 2-Seat			16445
4-Door Station Wagon - 3-Seat			16467
4-Door Sedan - 6-Passenger			16469
2-Door Sport Coupe - 5-Passenger			16487
CAPRICE			
2-Door Convertible - 4-Passenger			16867
2-Door Sport Coupe - 4-Passenger			16887
4-Door Station Wagon - 2-Seat			16635

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		15400-600; 16400-600; 16800		
Additional Information Page No.:		327 Cu. In. V-8	396 Cu. In. V-8	427 Cu. In. V-8
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)	79.9		
	Height (H101)	Sedans 55.4 (a); Coupes 54.4; Conv. 55.3; Wagons 56.7		
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	Standard	Heavy Duty - Optional	
	Manual - 4 speed	Optional		
	Overdrive	Not Available		
	Automatic	Powerglide and Turbo Hydra-matic	Powerglide and Turbo Hydra-matic	Turbo Hydra-matic
Axle ratio (See Page 4 for Optional Ratios)	Manual - 3 speed	3.36:1	3.31:1	
	Manual - 4 speed	3.36:1	3.31:1	
	Overdrive	Not Available		
	Automatic	P/Gld 3.08:1 Std. Wag. 3.36:1 Turbo Hydra-m. 2.73:1	P/Gld 3.07:1 Turbo Hydra-m. 2.73:1	2.73:1
Tire size		8.25 x 14 except Wagons; 8.55 x 14 Wagons		
Engine	Type, no. cyl., valve arr.	90° OHV V-8		
	Fuel system (Carb., other)	Carburetor		
	Bore and stroke	4.00 x 3.25	4.094 x 3.76	4.251 x 3.76
	Piston displ., cu. in.	327	396	427
	Std. compression ratio	10.0:1	10.25:1	
	Max. bhp at engine rpm	275 @ 4800	325 @ 4800	385 @ 5200
	Max. torque at rpm	355 @ 3200	410 @ 3200	460 @ 3400

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

MODEL	SAE Ref. No.	Sedans		Sport Sedan	Sport Coupe		Convertible		Station Wagons
		2-Dr	4-Dr		Bn	Bkt	Bn	Bkt	
				(Supplemental data available on request)					

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	41.7		42.0		42.1
Effective head room	H61	39.1		38.1	38.2	37.6(A)		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	34.6(A)	34.9	36.4		37.5
Effective head room	H63	37.8	37.3	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				----
Position of spare tire storage			Horizontal on Trunk Floor							
Method of holding lid open			Torsion Bars							

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.	
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 (B)

(A) Model 16887 Effective Head Room: Front 38.2; Effective Leg Room: Rear 36.4

MODEL	327 Cu. In. V-8	396 Cu. In. V-8	427 Cu. In. V-8
-------	-----------------	-----------------	-----------------

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° OHV V-8		
Bore and stroke (nominal)	4.00 x 3.25	4.094 x 3.76	4.251 x 3.76
Piston displacement, cu. in.	327	396	427
Bore spacing (C/L to C/L)	4.4		4.84
No. system	1-3-5-7		
(front to rear)	2-4-6-8		
Firing order	1-8-4-3-6-5-7-2		
Compres. ratio (nominal)	10.00:1		10.25:1
Cylinder Head Material	Cast Alloy Iron		
Cylinder Block Material	Cast Alloy Iron		
Cylinder Sleeve-Wet, dry, none	None		
Number of mounting points	Two		
Engine installation angle	One		
Taxable horsepower	51.2	53.6	57.8
Di ² xNo.Cyl.			
Publishing max. bhp* @ eng. RPM	275 @ 4800	325 @ 4800	385 @ 5200
Publishing max. torque* (lb. ft. @ RPM)	355 @ 3200	410 @ 3200	460 @ 3400
Recommended fuel regular - premium	Premium		
Idle speed(spec. neutral or drive)	Manual	500 (In Neutral)	550 (In Neutral)
	Automatic	500 (In Drive)	550 (In Drive)

ENGINE—PISTONS

Material	Cast Aluminum Alloy		
Description and finish	Flat Head, Notched; Slipper Skirt	Domed Head, Valve Cutout; Slipper Skirt	
Weight (piston only) oz.	21.60	24.80	28.00
Clearance (limits)	Top land	.0365 - .0455	.0305 - .0375
	Skirt	.0005 - .0011(a)	.0007 - .0013 (b)
	Bottom	— — — —	.0009 - .0015 (c)
Ring groove depth	No. 1 ring	.2217 - .2283	.2253 - .2318
	No. 2 ring	.2217 - .2283	.2253 - .2318
	No. 3 ring	.2038 - .2103	.2098 - .2168
	No. 4 ring		.2183 - .2248

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

- (a) Measured 2.24 from top of piston
- (b) Measured 1.95 from top of piston
- (c) Measured 1.89 from top of piston

POWER TEAMS

(Indicate whether standard or optional)

"A" "B" "C" "D"

MODEL AVAILABILITY	ENGINE				TRANSMISSION	AXLE RATIO ** (Std. first) (Indicate A/C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM	
	327* (L30)	One; 4-bbl down- draft	10.00:1	275 @ 4800	355 @ 3200	3-Spd (2.54:1 low)
						4-Spd (2.54:1 low)
						All Models
						Powerglide *
						All except Station Wagons
						All St. Wagons
						Turbo Hydra-matic*
						• All Models
						Air Conditioning*
						All Trans. except Turbo Hydra-matic
	396* (L35)	One; 4-bbl down- draft	10.25:1	325 @ 4800	410 @ 3200	Turbo Hydra-matic
						HD 3-Spd(2.41:1 lw) *
						4-Spd(2.52:1 low) *
						All Models
						Powerglide*
						All Models
						Turbo Hydra-matic*
						All Models
						Air Conditioning*
						All but Trb/Hyd
	427* (L36)	One; 4-bbl down draft	10.25:1	385 @ 5200	460 @ 3400	Turbo Hydra-matic
						HD 3-Spd(2.41:1 lw) *
						4-Spd(2.52:1 low) *
						All Models
						Turbo Hydra-matic*
						All Models
						Air Conditioning*
						All but Trb/Hyd
						Turbo Hydra-matic
						HD 3-Spd(2.41:1 lw) *
						4-Spd(2.52:1 low) *
						All Models
						Turbo Hydra-matic*
						All Models
						Air Conditioning*
						All but Trb/Hyd
						Turbo Hydra-matic
						4-Spd(2.20:1 low) *
						All Models
						Air Conditioning

* - Optional

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 plating on 327; Moly inlay on 396 & 427	
	Lower	Cast Alloy Iron - Wear Resistant coating (b)	
	Width	(c)	.0770 - .0775
	Gap	.013 - .023	.010 - .020
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails - steel, chrome plated OD; Expanders - stainless steel	
	Width	.1870-.1890 (assembled)	
	Gap	.015-.055	.010-.030
	Expanders	In oil ring assembly	

ENGINE-PISTON PINS

Material		Chromium steel
Length		2.990-3.0102.930-2.950
Diameter		.9270-.9273.9895-.9898
Type	Locked in rod, in piston, floating, etc.	
	Bushing	
	In rod or piston	
	Material	
Clearance	In piston	
	In rod	
Direction & amount offset in piston		Major thrustside

ENGINE-CONNECTING RODS

Material		Drop forged steel
Weight (oz.)		14.5627.84
Length (center to center)		5.699-5.7016.130-6.140
Bearing	Material & Type	
	Overall length	
	Clearance (limits)	
	End play	

- (a) 327 Cu. In. Inside bevel, tapered face; 396 & 427 no bevel, barrel face
- (b) Inside bevel and tapered face
- (c) Upper :0775-.0780; lower .0770-.0775

ENGINE—CRANKSHAFT

Material	Forged Steel	Nodular Iron	Forged Steel
Vibration damper type	Rubber mounted inertia damper		
End thrust taken by bearing (No.)	5		
Crankshaft end play	.002-.006		
Material & type	Steel with backed insert (selected bearing material - copper le. alloy or premium aluminum for intended engine operation & applica		
Clearance	(a)	(b)	
Main bearing	No. 1	2.3003 x .752	2.7505 x .992
	No. 2	2.3004 x .752	2.7505 x .992
	No. 3	2.3004 x .752	2.7505 x .992
	No. 4	2.3004 x .752	2.7505 x .992
	No. 5	2.3009 x 1.177	2.7506 x 1.2525
	No. 6	None	
Dir. & amt. cyl. offset		None	
Crankpin journal diameter	1.999-2.000		2.199-2.200

ENGINE—CAMSHAFT

Location	In block above crankshaft		
Material	Cast alloy iron		
Bearings	Material	Steel backed babbit	
	Number	5	
	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Steel sprocket	
Type of Drive	Camshaft gear or sprocket material	Cast aluminum	
Timing chain	No. of links	50	
	Width	.740	
	Pitch	.500	

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	Standard		
Valve rotator, type (intake, exhaust)	None		
Rocker ratio	1.50:1		1.70:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero	
	Exhaust	Zero	
Timing marks on flywheel, damper, other	Torsional Damper		

(Continued)

(a) No. 1 - .0008-.0020; No. 2, 3 and 4 - .0008-.0024; No. 5 - .0015-.0031

(b) No. 1 and 2 - .0010-.0022; No. 3 and 4 - .0013-.0025; No. 5 - .0015-.0031

ENGINE--VALVE SYSTEM (cont.)

Timing (Including Exhaust Ramps)	Intake	Opens (°BTC)	38°	40°	56°
		Closes (°ABC)	92°	102°	114°
		Duration-deg.	310°	322°	350°
		Opens (°BSC)	88°	87°	110°
		Closes (°ATC)	52°	55°	62°
Intake	Duration-deg.	320°	322°	352°	352°
	Valve opening overlap	90°	95°	118°	118°
	Material	Alloy Steel			
	Overall length	4.870-4.889	5.215-5.235		
	Actual overall head dia.	1.935-1.945	2.060-2.070		
Exhaust	Angle of seat & face		46° (Seat) 45° (Face)		
	Seat insert material		None		
	Stem diameter	.3410-.3417	.3715-.3722		
	Stem to guide clearance		.0010-.0027		
	Lift (@ zero lash)	.3900	.3983		.4614
Intake	Outer spring press. and length	Valve closed (lb. @ in.)	76-84 @ 1.70	94-106 @ 1.88	
	Inner spring press. and length	Valve open (lb. @ in.)	194-206 @ 1.25	303-327 @ 1.38	
		Valve closed (lb. @ in.)		Spring Damper	
		Valve open (lb. @ in.)		Spring Damper	
	Material	High alloy steel			
Exhaust	Overall length	4.913-4.933	5.345-5.365		
	Actual overall head dia.	1.495-1.505	1.715-1.725		
	Angle of seat & face		46° (Seat) 45° (Face)		
	Seat insert material		None		
	Stem diameter	.3410-.3417	.3713-.3720		
Exhaust	Stem to guide clearance	.0010-.0027	.0015-.0032		
	Lift (@ zero lash)	.4100	.3983		.4800
	Outer spring press. and length	Valve closed (lb. @ in.)	76-84 @ 1.70	94-106 @ 1.88	
	Inner spring press. and length	Valve open (lb. @ in.)	194-206 @ 1.25	303-327 @ 1.38	
		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
	Tapets	Pressure
	Camshaft bearing	

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	30-45 PSI @ 1500 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	SAE 20W, SAE 10W-30
	0°F to 32°F *	SAE 10W or SAE 10W-30
	Below 0°F	SAE 5W or SAE 5W-20
*(SAE 5W-30 may be used at temperatures below freezing)		
Engine Service Requirement (NMA, 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, reverse flow	Two with resona
Exhaust pipe dia.	Branch	— — —
(O.D., wall thickness)	2.00 x .073-.091(a)	2.50 x .082-.098(a)
2.50 x .073-.091 laminated	1.875 x .062-.076	2.00 x .062-.07

ENGINE—CRANKCASE VENTILATION SYSTEM

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

MODEL	327 Cu. In. V-8 Mnl.Trn.	Auto.	396 Cu. In. V-8 Mnl.Trn.	Auto...	427 Cu. In. V-8 Mnl.Trn.	Auto.
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ENGINE--EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)	Air Injection						
Air Injection Pump	Type	Semi-articulated vane type					
	Displacement	19.3 Cu. In.					
	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.)	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					
	Make	Rochester					
Carburetor	Model	7037213	7037212	7037211	7037210	7037211	7037210
	Barrel size	1.38 Primary; 2.25 Secondary					
	Idle speed	Drive	600	--	500	--	550
		Neutral	700	--	700	--	700
	Aux. Adv. Systems (type)	None					
	Make	Delco-Remy					
Distributor	Model	1111150		1111169			
	Cent'gal adv. in crank degrees @ eng. rpm.	900		900			
	Start (rpm) Intermed. points deg. @ rpm	15 @ 2000		17 @ 2000			
	Max. deg.@rpm.	28 @ 4200		32 @ 5000			
	Vacuum adv. in. crank degrees @ eng. rpm	8		8			
	Intermed. points deg. @ in. Hg	None		None			
	Max. deg.@ in.	15 @ 15.5		15 @ 15.5			
Timing - Crank degrees @ rpm	Vacuum Source	Carburetor					
		6 BTDC @ Idle (a)		4 BTDC @ Idle (b)			
Cooling System (describe changes)		195° Thermostat					
Exhaust System (describe changes)		None					

- (a) 6°-10° BTDC when used with automatic transmission
(b) 4°-10° BTDC when used with automatic transmission

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.)	24 (approximately)	
	Filler location	Behind hinged rear license plate (a)	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Lower right front of engine	
	Pressure range	5.00-6.50 PSI	5.00-6.50 PSI
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank	
	Locations	● and paper filter in carburetor inlet	
	Choke type	Automatic	
Carburetor	Intake manifold heat control (exhaust or water)	Exhaust	
	Air cleaner type	Standard	Oil-wetted paper
		Optional	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
15400 15600 16400 16600 16800	327	3-Speed 4-Speed	Rochester	7027213	One; 4-bbl down-draft	1.38 (Prim) 2.25 (Sec)
		Powerglide Trb.Hyd-matic		7027212		
	396	H.D. 3-Speed 4-Speed	Rochester	7027211	One; 4-bbl down-draft	1.38 (Prim) 2.25 (Sec)
		Powerglide Trb.Hyd-matic		7027210		
	427	H.D. 3-Speed 4-Speed	Rochester	7027211	One; 4-bbl down-draft	1.38 (Prim) 2.25 (Sec)
		Trb.Hyd-matic		7027210		

ENGINE-COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure	
Radiator cap relief valve pressure	15 ± 1 PSI	
Circulation	Choke	
thermostat	177°-183°F	
	Centrifugal	
Water pump	57 @ 4400	82 @ 5200
	One	
	V-Belt	
	Double row ball	
By-pass recirculation type (internal, external)	Internal	External
Radiator core type (cellular, tube and fin, other)	Tube and center	
Cooling system	15	22
Without heater (qt.)	14	21
Opt. equipment-specify (qt.)	16	22
Water jackets full length of cylinder (yes, no)	Yes	
Water all around cylinder (yes, no)	Yes	
Radiator hose	Lower	One, molded
	Inside diameter	1.751.88
	Upper	One, molded
	Inside diameter	1.50
Fan	By-pass	One, molded
	Number and type (molded, straight)	None
	Inside diameter	-.725-.765
	Number of blades & spacing	4, staggered
*Drive belts (indicate belt used by letter)	Diameter	17.62
	Ratio-fan to crankshaft rev.	.949:1
	Fan cutout type	None
	Bearing type	Double row ball
	Fan	A
	Generator or alternator	D
	Water Pump	D
	Power Steering	E
	Air Conditioning	F

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V					38°	42°					

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco-Remy #1980030		
	Voltage Rtg. & Total Plates	12 Volt; 66 plates		
	SAE Designation & Amp Hr. Rtg.	61 Amp. hr @ 20 Hr. rate		
	Location	Right front engine compartment		
Generator or Alternator	Terminal grounded	Negative		
	Make	Delco-Remy		
	Model	#1100593		
	Type and rating	Diode rectified (37 amps)		
	Output at engine idle (neutral)	13 amps	13 amps	15 amps
	Ratio-Gen. to Cr/s rev.	2.46:1		
	Make	Delco-Remy		
	Model	#1119515		
Regulator	Type	Vibrator		
	Cutout relay	None		
	Closing voltage @ generator rpm	None		
	Reverse current to open	None		
	Regulated	Voltage		
		Current		
	Voltage test conditions	Temperature		
		Load		
		Other		
		None		
		Operating		
		3-8 amperes		
		None		
		13.8-14.8 @ 85°F		
		--		
		Operating		
		3-8 amperes		
		None		
		None		
		Vibrator		
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MODEL

ELECTRICAL-STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Positive shift solenoid	
	Pinion meshes (front, rear)		Rear	
	Pinion		9	
	Number of teeth	Manual	153	168
		Auto.	153	168
Flywheel tooth face width	Manual		.4010-.4130	.4100-.4220
	Auto.		.4010-.4130	.4100-.4220

ELECTRICAL-IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Not available	
	Make		Delco-Remy	
	Model		#1115270	#1115267
	Amps		4.0	
Distributor	Engine stopped		4.0	
	Engine idling		1.8	
	Make		Delco-Remy	
	Model		1111249	1111169
Timing	Start (rpm)		900	900
	Intermediate points deg. @ rpm.		11 @ 1500	17 @ 2000
	Max. deg. @ rpm.		26 @ 4100	32 @ 5000
	Vacuum (nominal)		8.00	8.00
Spark Plug	Start (in. Hg.)		None	
	Intermediate points, deg. @ in. Hg.		None	
	Max. deg. in. Hg.		15 @ 15.5	15 @ 15.5
	Breaker gap (in.)		.019	.019
Cable	Cam angle (deg.)		28°-32°	
	Breaker arm tension (oz.)		19-23 oz	28-32 oz
	Crankshaft deg. @ rpm.		8 BTDC @ 500	4 BTDC @ 500
	Mark location		Torsional Damper	
Spark Plug	Make		AC Spark Plug	
	Model		AC44	AC43N
	Thread (mm)		14	14
	Tightening torque (lb. ft.)		25	25
Cable	Gap		.033-.038	
	Conductor type		Linen core impregnated with electrical conducting material	
	Insulation type		Rubber with neoprene jacket	
	Spark plug protector		Neoprene	

MODEL	327 Cu. In. V-8	396 Cu. In. V-8	427 Cu. In. V-8
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ELECTRICAL--SUPPRESSION

Locations & type	Non-metallic high tension cables
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ELECTRICAL--INSTRUMENTS AND EQUIPMENT

Speedometer	Make	AC
	Trip odometer (yes, no)	NA
Charge indicator--type		Tell-tale (a)
Temperature indicator--type		Tell-tale (a)
Oil pressure indicator--type		Tell-tale (a)
Fuel indicator--type		Electric gage
Other		Refer to page 23
Windshield wiper	Make	Delco Products
	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)	(Low note) 4.5-6.5@12.5V. (Hi note) 4.2-6.2@12.5V.

DRIVE UNITS--CLUTCH (Manual Transmission)

Make & type	3 & 4-Spd	HD 3-Spd	3 & 4 Speed	3 & 4 Speed
Type pressure plate springs			Chevrolet single dry disc, centrifugal	
Total spring load (lb.)	2100-2300	2450-2750	Diaphragm bent finger design	2600-2800
No. of clutch driven discs			One	
Material			Premium grade woven type asbestos	
Outside & inside dia.	10.4 & 6.5	11.0 & 6.5	11.0 & 6.5	
Total eff. area (sq. in.)	103.53	123.70	123.70	
Thickness	.135 each		.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 and vacuum gage

15400-600; 16400-600; 16800	327 Cu. In. V-8	396 Cu. In. V-8	427 Cu. In. V-8
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MODEL

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard	Heavy Duty 3-Speed (Opt)
Manual 4-speed (std. or opt.)	Optional	
Manual with overdrive (std. or opt.)	Not Available	
Automatic (std. or opt.)	Powerglide - optional with 327 and 396 Cu. In. Turbo Hydra-matic optional with 396 and 427 Cu. In.	

DRIVE UNITS — MANUAL TRANSMISSION

Number of forward speeds	3-Speed	4-Speed	HD 3-Speed	4-Speed	HD 3-Speed	4-Speed
	3	4	3	4	3	4
In first	2.54	2.54	2.41	2.52	2.41	2.52
In second	1.50	1.80	1.57	1.88	1.57	1.88
In third	1.00	1.44	1.00	1.47	1.00	1.47
In fourth	--	1.00	--	1.00	--	1.00
In reverse	2.63	2.54	2.41	2.59	2.41	2.59
Synchronous meshing, specify gears	All forward gears					
Shift lever location	3-Speed, steering column; 4-speed, floor					
Capacity (pt.)	3.5 pints on 3-Speed H.D.; 3 pints for 3 & 4-Speed					
Type recommended	Military Spec. MIL-L-2105-B					
SAE viscosity number	Summer		SAE-80		SAE-80	
	Winter		SAE-80		SAE-80	
	Extreme cold		SAE-80		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	
Capacity (pt.) (Overdrive only)	Available
Separate filler (yes, no)	
Type recommended	
SAE viscosity number	Summer
	Winter
	Extreme cold

15400-600; 16400-600; 16800

MODEL 327 Cu. In. V-8 | 396 Cu. In. V-8 | 427 Cu. In. V-8

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 16400-600-800				
Selector Pattern	P-R-N-D-L				

DRIVE UNITS—PROPELLER SHAFT

Number used	One	
Type (exposed, torque tube)	Exposed, tubular	
Manual 3-speed transmission	3.25 x 62.16 x .065	
Manual 4-speed transmission	3.25 x 62.16 x .065	
Overdrive transmission	N.A.	
Automatic transmission	Powerglide 3.25 x 62.16 x .065(a)	Turbo Hydra-matic 3.25 x 61.17 x .065 (b)

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

- (a) 3.25 x 61.76 x .065 with Prop Shaft Damper on the forward end of Caprice models only.
- (b) 3.25 x 60.06 x .065 with Prop Shaft Damper on the forward end of Caprice models only.

MODEL	327 Cu. In. V-8	396 Cu. In. V-8	427 Cu. In. V-8
	15400-600; 16400-600; 16800		

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	Anti-Friction
Drive taken through (torque tube or arms, springs)	Type (plain, anti-friction)	Anti-Friction
	Lubric. (fitting, prepack)	Pre-Pack
Torque taken through (torque tube or arms, springs)		Control Arms
		Control Arms

DRIVE UNITS—REAR AXLE

Description	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)	8.125 for 3.36 8.875 for 3.31 -
Pinion adjustment (shim, other)	None
Pinion bearing adj. (shim, other)	Shim
Wheel bearing type	Single row cylindrical roller
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	SAE-80
SAE vis-cosity number	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	2.73	3.07	3.31	3.73	4.10	4.56	4.88
No. of teeth	Pinion	12	11	11	10	15	14	13	11	10	9
	Ring gear	37	37	39	37	41	43	43	41	41	39

MODEL

15400-600; 16400-600; 16800

DRIVE UNITS—WHEELS

Type & material	Short spoke disc, steel	
Rim (size and flange type)	Std.	14 x 5J; Wagons 14 x 6 JK
	Opt.	14 x 6 JK except Wagon
		15 x 5 K (with 15 in. tires)
Attachment	● Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 HEX Nuts 7/16-20 UNF-2B

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.25 x 14	Wagons 8.55 x 14
	Type - Nylon, etc.	Original Equipment	
Rev./mile at 50 mph.		755	748
Inflation press. (cold)	Front	24	Wagons 22
	Rear	28	Wagons 30

Optional tires - size and ply

G-70 x 15-4 PR (a)

BRAKES—SERVICE

Standard		Metallic (Opt)	Frt.Disc (Opt)
Type (duo-servo, disc, balanced, etc.)	Duo-Servo 4-wheel hydraulic		
Self adjusting (std., opt., N.A.)	Standard		
Hydraulic system type (single, dual, etc.)	Dual		
Power brake make & type (remote, integral, etc.)	Bendix, Delco-Moraine Vacuum Power Unit, Integral		
Effective area (sq. in.) *	184.3	145.2	115.6
Gross lining area (sq. in.) **	198.4	145.2	119.7
Swept drum area (sq. in.) ***	328.3		368.8
Percent brake effectiveness—front	58.5		57.0
Drum or Rotor	Diameter	11.0	
	Type and material	11.0	
Rotor (vented or solid)	Composite: rim, cast iron; web, steel		
No. pistons per caliper	Vented		
Front	1.1875		4
Rear		1.00	2.0625
Master cylinder bore	1.00	.875	1.125
Available pedal travel	7.08		4.75
Line pressure at 100 lb. pedal load	7.17	9.36	--
Shoe clearance adjustment	Self-adjusting		

(Continued)

* 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) Required with front disc brake option

MODEL 15400-600; 16400-600; 16800

BRAKES—SERVICE (cont.)

Drum or Disc		Standard		Metallic (Opt)		Frnt. Disc (Opt)	
Bonded or riveted		Bonded		Welded		Riveted	
Front Wheel	Material	Molded asbestos		Sintered iron		Molded asbestos	
	Size (length x width x thickness)	Prim. or out. board	Second. or in. board	9.25 x 2.75 x .168	1.64 x 1.37 x .175	5.96 x 2.21 x .	5.96 x 2.21 x .
	Segments per shoe	One		11.63 x 2.75 x .168	1.64 x 1.37 x .295	5.96 x 2.21 x .	5.96 x 2.21 x .
Rear Wheel	Material	Molded asbestos		Sintered iron		Molded asbestos	
	Size (length x width x thickness)	Prim. or out. board	Second. or in. board	9.25 x 2.00 x .168	2.00 x 1.00 x .175	9.25 x 2.00 x .168	9.25 x 2.00 x .168
	Segments per shoe	One		11.63 x 2.00 x .168	2.00 x 1.00 x .295	11.63 x 2.00 x .168	11.63 x 2.00 x .168
Brake lining		One		PRI - 6 SEC - 12		One	
		Molded asbestos		Sintered iron		Molded asbestos	
		9.25 x 2.00 x .168		2.00 x 1.00 x .175		9.25 x 2.00 x .168	
		11.63 x 2.00 x .168		2.00 x 1.00 x .295		11.63 x 2.00 x .168	
		One		PRI - 6 SEC - 10		One	

BRAKES—PARKING

Type of control	Foot Pedal Apply; T = Handle Release
Location of control	Left of Steering Column, under Instrument Panel
Operates on	Rear Service Brakes
If separate from service brakes	---
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 pickup.
---	---

STEERING

Manual (std., opt., NA)	Standard - Energy absorbing steering column
Power (std., opt., NA)	Optional
Adjustable steering wheel (tilt, swing, other)	TILT: Tilt achieved with universally-jointing steering shaft at base of steering wheel; 5-inch vertical travel range.
Wheel diameter	Optional
Manual	16.5
Power	16.5
Turning diameter	43.5
Outside front	40.8
Inside rear	24.2
Outside wheel angle with inside wheel at 20°	24.5
Type	18.09
Type	Semi-reversible, Recirculating Ball Unit

15400-600; 16400-600; 16800

MODEL

STEERING (cont.)

Type (coaxial, linkage, etc.).		Coaxial
Make		Saginaw
Power	Type	
	Gear	Same as Manual
	Ratios	17.5:1
Gear		Overall
Pump driven by		21.2:1
Number wheel turns		Crank Shaft Pulley
Type		4.0 Lock to Lock
Location (front or rear of wheels, other)		Parallelogram
Linkage	Drag link (trans. or longit.)	
	Tie rods (one or two)	
	Inclination at camber (deg.)	
Steering Axis	Upper	
	Lower	
	Thrust	
Caster (deg.)		None
Camber (deg.)		P 1/4 to P 1-1/4
Toe-in (outside track inches)		N 1/4 to P 3/4
Steering spindle & joint type		1/8 to 1/4
Wheel spindle	Forging with pad for mounting brake cylinder, spherical	
	Inner bearing	
	Outer bearing	
Diameter		1.2493 - 1.2498
Thread size		.7492 - .7497
Bearing type		3/4 - 20 NEF - 3 (Modified)
		Taper Roller

MODEL 327 Cu. In. V-8 396 Cu. In. V-8 427 Cu. In. V-8

(See Supplemental page for details on Air Suspension) *

SUSPENSION—GENERAL

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 outboard of bumper guard; Rear Wheel - Approx. 2" outboard of bumper joint.
Shock absorber front & rear	Direct, Double-acting, Hydraulic
Make	Delco
Piston dia.	1.00
Other special features	

SUSPENSION—FRONT

Type and description	Independent - SLA type with coil spring and concentric shock absorber and spherically-jointed steering knuckle for each wheel, lower control arm strut-supported.
Type	Coil, Rt. Hd Helix
Material	Steel Alloy
Size (coil design height & I.D.; bar length x dia.)	11.76 x 3.80 11.76 x 3.80 126.6 x .614 141.1 x .636
Spring rate (lb. per in.)	290
Rate at wheel (lb. per in.)	104
Type (link, linkless, frameless)	Link
Material & bar diameter	HR Steel .8125 Sedan & Wagons; Super Sport .9375

SUSPENSION—REAR

Type and description	(a)
Drive and torque taken through	Control Arms
Type	Coil, Rt. Hd. Helix
Material	Steel Alloy
Size (length x width, coil design height & I.D.; bar length & dia.)	12.37 x 4.00 126.2 x .597
Spring rate (lb. per in.)	230
Rate at wheel (lb. per in.)	105
Mounting insulation type	Rubber Bushed Control Arm
If leaf	---
No. of leaves	---
Shockle (comp. or tens)	---
Type (link, linkless, frameless)	None
Material	---
Track bar type	Lateral, Frame to Rear Axle

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

MAKE OF CAR

CHEVROLET

MODEL YEAR

1967

DATE ISSUED

10-7-66

REVISED

(*)

MODEL

2-Dr

Sedans

4-Dr

Sport Sedans

Sport Coupes

Convert.

Station Wagon

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 cotton pad
	3rd seat	---
Seat back type	Front	Formed wire and foam pad
	Rear	Formed wire and cotton pad
	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	1383.0	1348.9
Backlight glass exposed surface area	1202.0	1239.3
Total glass exposed surface area	4033.1	3999.0
		4210.3
		3566.0
		4921.7

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	25.2	25.0	24.2	24.4	26.1
		Lowest	25.2	25.0	24.2	24.4	26.1
Distance from C/L of car to center of bulb	Tail	Highest	23.8	23.6	23.1	23.3	25.5
		Lowest	23.8	23.6	23.1	23.3	25.5
Headlamp	Inside	23.6					
	Outside *	30.3					
Tail	Inside	17.9	17.0	Center Set	24.0	18.9	
	Outside	29.8	31.0			32.1	
Directional	Front	27.0					
	Rear	29.8	24.0 & 31.0	25.4 + 32.1			

* If single headlamps are used enter here.

(A) Flat tempered plate on convertible fixed

AMA Specifications—Passenger Car

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MAKE OF CAR CHEVROLET MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED 01-27-66

15400-600; 16400-600; 16800

MODEL

CONVENIENCE EQUIPMENT

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

Power windows	Side Windows	Optional all models except 15300-15400
	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, 155-156-1
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 - 15000 -- Standard - 16000
Air Conditioner (specify type and availability)		Optional - four season and automatic temperature control
Speed warning device		Optional
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		Optional 150-163-16400 - Standard all other models
Map lamp		NA
Auto. trans. quad. lamp		Standard
Emergency flasher lamp, four-way		Standard
Cornering light lamp		Standard on 16600 - Optional all other models
Freeway lane change signal		Standard
Instrument Panel Pad		Standard
Left hand outside mirror		Standard
Padded Sun Shades		Standard
Brake system warning and parking brake light		Standard
Steering column energy absorbing		Standard

WEIGHTS

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
	Front	Rear	Total	* Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
Biscayne	Base							Base
	V8-283							V8-283
	15411			31			69	3465
	15435			31			69	3885
Bel Air	15469			31			69	3525
	15611			31			69	3470
	15635			31			69	3890
	15645			22		78	3940	
Impala	15669			31			69	3535
	16435			31			69	3920
	16439			31			69	3660
	16445			37		63	3625	3980
Impala Super Sport	16467			31			69	3575
	16469			37		63	3590	
	16487							
	16867			35		65	3650	
Caprice	16887			35		65	3615	
	16635			31		69	3935	
	16639			31		69	3710	
	16645			22		78	3990	
16647			37		63	3605		
Accessories & Equipment Differential Weights								
Air Conditioning		+120		Remarks				Passengers
Air Injection System		+ 19						Front Rear
Brakes, Disc		+ 43						* Sedans + Sport Sedans 2 3
Brakes, Power		+ 7						Sport Coupe + Convertible 3 2
Heater, Delete		- 23						Super Sport 2 2
Radio, Pushbutton		+ 9						2-Seat Wagon 2 3
Radio, Pushbutton AM-FM		+ 10						3-Seat Wagon (a) (a)
Seat, 4-Way Power		+ 14						
Seat, 6-Way Power		+ 17						
Steering, Power		+ 28						
Transmission, 3-Spd HD		+ 23						
Transmission, Powerglide		+ 12						
Transmission, 4-Spd, 327 Cu.In.		+ 12						
Trans., 4-Spd, 396 & 427 Cu.In.		No Wgt Change						
Transmission, Hydra-Matic		+ 58						
Engine - 327 Cu. In.		+ 51						
Engine - 396 Cu. In.		+243						
Engine - 427 Cu. In.		+269						
Windows - Power		+ 22						

Remarks

Automatic Transmission.....	1, 16
Axis, Steering.....	20
Axle, Rear.....	1, 17
Battery.....	12
Bearings, Engine.....	5, 6, 7
Belts - Fan, Generator, Water Pump.....	11
Body - General Information, types.....	Title, 1, 2, 22
Exterior Dimensions.....	1
Interior Dimensions.....	2
Brakes - Parking, Service, Power.....	18, 19
Comber.....	20
Camshaft.....	6
Capacities.....	
Cooling System.....	11
Fuel Tank.....	10
Lubricants.....	
Engine Crankcase.....	8
Transmission and Overdrive.....	15, 16
Rear Axle.....	17
Carburetor.....	4, 9, 10
Caster.....	20
Choke, Automatic.....	10
Clutch - Pedal Operated.....	14
Coil, Ignition.....	13
Connecting Rods.....	5
Convenience Equipment.....	23
Cooling System.....	11
Crankcase Ventilation.....	8
Crankshaft.....	5
Cylinders and Cylinder Head.....	3
Distributor - Ignition.....	13
Electrical System.....	12, 13, 14
Engine.....	
Bore, Stroke, Displacement, Types.....	1, 3
Compression Ratio.....	1, 3
Firing Order, Cylinder Numbering.....	3
General Information, H.P. & Torque.....	1, 3
Lubrication.....	7, 8
Power Teams.....	4
Exhaust Emission Control.....	9
Exhaust System.....	8
Equipment Availability.....	22
Fan, Cooling.....	11
Filters - Engine Oil, Fuel System.....	8, 10
Frame.....	19
Front Suspension.....	21
Fuel, Fuel Pump, Fuel System.....	1, 3, 10
Fuel Injection.....	1, 10
Generator and Regulator.....	12
Glass.....	22
Height (Lamps).....	14
Headroom - Body.....	2
Heights - Overall.....	1
Horns.....	14
Horsepower - Brake.....	1, 3, 4
Ignition System.....	13
Inflation - Tires.....	18
Instruments.....	8, 14
Kingpin (Steering Axis).....	20
Lamp Height & Spacing.....	22

Linings - Clutch, Brakes.....	14, 18, 19
Lubrication.....	7, 8, 14, 15, 16, 17
Luggage Capacity.....	2
Motor, Starting.....	12
Muffler.....	8
OverDrive.....	15
Piston Pins & Rings.....	3, 5
Pistons.....	3, 5
Power Brakes.....	16
Power Steering.....	19
Power Teams.....	2
Propeller Shaft, Universal Joints.....	16, 17
Pumps - Oil, Fuel.....	8, 10
Water.....	11
Radiator, Hoses.....	11
Ratios - Axle.....	1, 4, 17
Compression.....	1, 3, 4
Steering.....	19, 20
Transmission.....	15, 16
Rear Axle.....	1, 4, 17
Regulator - Generator.....	12
Rims.....	18
Rings, Piston.....	5
Rods - Connecting.....	5
Shock Absorbers, Front & Rear.....	21
Spark Plugs.....	13
Speedometer.....	14
Springs - Front & Rear Suspension.....	21
Valve, Engine.....	6
Stabilizer (Sway Bar) - Front & Rear.....	21
Starting Motor.....	12
Steering.....	19, 20
Suppression - Ignition, Radio.....	14
Suspension - Front & Rear.....	21
Tailpipe.....	8
Thermostat, Cooling.....	11
Timing, Engine & Valve.....	6, 7, 13
Tires.....	1, 18
Toe in.....	20
Torque Converter.....	16
Torque - Engine, Rated.....	1, 3, 4
Transmission - Types.....	1, 4, 10, 15, 16
Automatic.....	1, 4, 10, 15, 16
Manual & Overdrive.....	1, 4, 10, 15
Ratios.....	15, 16
Track.....	1
Trunk Luggage Capacity.....	2
Turning Diameter.....	19
Unitized Construction.....	19
Universal Joints, Propeller Shaft.....	16, 17
Valves - Intake & Exhaust.....	6, 7
Vibration Damper.....	6
Voltrane Regulator.....	12
Water Pump.....	11
Weights - Shipping, Curb.....	24
Wheel Alignment.....	20
Wheelbase.....	1
Wheels & Tires.....	19
Wheel Spindle.....	20
Widths - Car & Body.....	1