GENERAL

MODEL IDENTIFICATION

CORVETTE 19437 SPORT COUPE

MODEL 19437 2-DOOR SPORT COUPE, 2-PASSENGER

CORVETTE 19467 CONVERTIBLE

MODEL 19467 2-DOOR CONVERTIBLE, 2-PASSENGER

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE SERIAL NUMBER

8-Cylinder Example:

Model	Model Year	Assembly Plant	Unit Number
	1968	(St. Louis)	(25th unit)
19437	8	S	100025

Thus: The 25th model built at St. Louis would be serial number 194378S100025

ASSEMBLY PLANTS

S - St. Louis

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: RJS8E01D

Type Designation	Source Designation	Model Year 1968	Production* Month & Date
RJ	S (Saginaw)	8	EOID*

RJ	3-Speed	V-8 engine	S - Saginaw
WM	4-Speed	V-8 engine	R - Saginaw P - Muncie
--	Turbo Hydra-Matic	V-8 engine	CC - Ypsilanti

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.

Turbo Hydra-Matic ---------- Nameplate tag on right hand side of the case.

o-Month: E denotes May; (see below) 01 denotes 1st day

Alpha Characters used in identifying the Calendar Month

A - January	D - April	K - July	R - October
B - February	E - May	M - August	S - November
C - March	H - June	P - September	T - December

*-The letter "D" or "N" following the date numerals indicates day or night shift.

ENGINE IDENTIFICATION

Example: F1210HE

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

327 Cubic Inch 8-Cylinder

HE - Regular engine, 3 or 4-speed, 4-bbl. carb.
HO - Regular engine, Turbo Hydra-Matic

327 Cubic Inch 8-Cylinder (RPO L79)

HT - Optional engine, 4-speed, 4-bbl. carb.

427 Cubic Inch 8-Cylinder (RPO L36)

IL - Optional engine, 4-speed, 4-bbl. carb.
IQ - Optional engine, Turbo Hydra-Matic

427 Cubic Inch 8-Cylinder (RPO L68)

IM - Optional engine, 4-speed, 3 x 2-bbl. carbs.
IO - Optional engine, Turbo Hydra-Matic

427 Cubic Inch 8-Cylinder (RPO L71)

IR - Optional engine, 4-speed, 3 x 2-bbl. carbs. Mechanical Lifters.

Location:

8-Cylinder engine ---------- Stamped on top front of RH bank of cylinder and case.

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

REAR AXLE IDENTIFICATION

Example: AK0212W

Type Designation	Production* Month & Date	Source¢ Designation
AK	0212	W (Warren)

Regualr axles

AK ------ 3.36 ---------- 3-speed, 4-speed transmission
AS ----- 3.70 ---------- 4-speed transmission

Postfraction axles

AL ----- 3.08 --- 3-speed, 4-speed, & Turbo Hydra-Matic
AM ----- 3.36 ---------- 3-speed, 4-speed transmission
AN ----- 3.55 ---------- 4-speed transmission
AO ---- 3.70 ---------- 4-speed transmission
AP ----- 4.11 ---------- 4-speed transmission
AY ---- 2.73 -------- Turbo Hydra-Matic transmission

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

* - Month: February, 02; 12th day of February, 12
¢ - G-Gear & Axle, B-Buffalo, W-Warren.

REGULAR EQUIPMENT—EXTERIOR

		CORVETTE	
		1967	1967
Bright Trim And Ornamentation	Front and rear bumper guards (integral)	X	X
	Windshield reveal moldings	X	X
	License plate frames, front and rear	X	X
	Parking lamp bezels (clear lens, amber bulb)	X	X
	Radiator grille horizontal bars (silver paint)	X	X
	Hood header emblem (crossed flags)	X	X
	Front and rear side marker lamp bezels	X	X
	Roof drip molding	X	
	Press-flap door handles and push-button key locks	X	X
	Wheel hub caps and trim rings	X	X
	Rear body nameplate (Corvette)	X	X
	Gas filler door emblem	X	X
	Rear license compartment bezel	X	X
	Tail and stop lamp bezels	X	X
	Exhaust pipe extensions and bezels	X	X
	Windshield upper and side garnish moldings		X
	Outside rear view mirror	X	X
Vacuum operated retractable headlamps		X	X
Concealed 2-speed electric windshield wipers (under vacuum operated cowl panel)		X	X
Front fender louvers (3-functional)		X	X
Wide body rocker molding (black with bright bead)		X	X
Removable roof panels (bright center brake moldings and latches)		X	
Folding top (manual; vinyl rear window)			X
Removable rear window (solid plate with bright frame)		X	
Full-glass front door windows (with "Astro-Ventilation" script)		X	X
Dual tail lamps		X	X
Back-up lamps (in lower body panel)		X	X
Concealed spare tire compartment with key lock		X	X

		CORVETTE 19400	
		19437	19467
Bright Trim And Ornamentation	Hood release lever	X	X
	Body sill plates (black fill)	X	X
	Top header release latches	X	X
	Rear view mirror support	X	X
	Seat back hinge	X	X
	Stowage compartment door trim rings	X	X
	Window and door remote control handles	X	X
	Door locking knobs	X	X
	Directional signal control lever	X	X
	Transmission shift lever and pattern plate lettering	X	X
	Parking brake lever	X	X
	Door trim moldings	X	X
	Console nameplate "Corvette"	X	X
	Heater thumb wheel controls	X	X
	Instrument panel and console control knobs	X	X
	Instrument panel air outlets	X	X
	Console vent controls	X	X
	Deluxe seat belt buckles	X	X
	Removable rear window frame	X	
	Seat adjuster handle	X	X
Instrument Panel And Console	Electric clock	X	X
	Ammeter, temperature, fuel and oil gauges	X	X
	Tachometer and speedometer with trip odometer	X	X
	Windshield washer and wiper control	X	X
	Cigarette lighter (in ash tray)	X	X
	Parking brake and brake system failure indicator	X	X
	Front and rear lamp monitoring indicators	X	X
	Seat belt and door ajar indicators	X	X
Lamps And Switches	Ignition lock and starter switch, "4-position"	X	X
	Main light and headlamp rotation switch	X	X
	Glove box and lamp (in rear compartment)	X	X
	Luggage lamps	X	X
	Instrument panel courtesy	X	X
Bucket seats		X	X
Full-glass door windows with "Astro-Ventilation" script		X	X
Dual padded sunshades		X	X
Wood-grain plastic steering wheel, padded horn button with "crossed flags"		X	X
Carpeted floor and luggage area		X	X
Padded headlining		X	
Molded door panels with built-in armrests		X	X
Roof panels and rear window stowage shelf		X	
Center console trim plates (black with crossed flags)		X	X

REGULAR PRODUCTION OPTIONS AND DEALER INSTALLED ACCESSORIES

Equipment	RPO/ACC		Models
Air conditioner, Four-Season	C60		19400
Axle ratios			
2.73 ratio	*		19400
3.08 ratio	*		19400
3.36 ratio	*		19400
3.55 ratio	*		19400
3.70 ratio	*		19400
4.11 ratio	*		19400
Positraction (all ratios)	G81		19400
Brakes, heavy duty	J56		19400
Brakes, power	J50		19400
Carrier, deck lid luggage		ACC	19467
Carrier, ski (deck lid)		ACC	19467
Compass		ACC	19400
Emergency road kit		ACC	19400
Engines			
Aluminum cylinder heads	L89		19400
390 hp Turbo-Jet 427 Cu.In. V-8	L36		19400
400 hp Turbo-Jet 427 Cu.In. V-8	L68		19400
430 hp Turbo-Jet 427 Cu.In. V-8	L88		19400
435 hp Turbo-Jet 427 Cu.In. V-8	L71		19400
350 hp Turbo-Fire 327 Cu.In. V-8	L79		19400
Exhaust system, off-road service	N11		19400
Fire extinguisher (2-3/4 lb. dry chemical)		ACC	19400
Fire extinguisher refill cartridge		ACC	19400
Floor mats, clear vinyl twin		ACC	19400
Glass, tinted window	A01		19400
Glass, tinted windshield	A02		19400
Head restraint, standard	A82		19400
Ignition, full-transistor	K66		19400
Lock, gas cap		ACC	19400
Mirror, visor vanity		ACC	19400
Radio and rear antenna, push-button AM-FM	U69	ACC	19400
Radio antenna, rear fixed height		ACC	19400
Roof cover, vinyl	C08		19467
Seat, child restraint		ACC	19400
Seat pad, ventilated		ACC	19400
Shoulder harness, deluxe	A85		19400
Speed warning indicator	U15		19400
Spotlight, hand portable		ACC	19400
Steering, power	N40		19400
Steering shaft, telescopic	N36		19400
Stereo-multiplex	U79		19400
Suspension, special performance front and rear	F41		19400
Tires			
F70-15-4 pr tire-special nylon-red stripe	PT6		19400
F70-15-4 pr tire-special nylon-white stripe	PT7		19400
Tissue dispenser, instrument panel mounted		ACC	19400
Top, auxiliary	C07		19467
Top, folding convertible	C05		19467
Transmissions			
4-speed (2.52 low)	M20		19400
4-speed close ratio (2.20 low)	M21		19400
3-speed automatic, Turbo Hydra-Matic	M40		19400
Wheel covers	P01		19400
Windows, power	A31		19400

* Positraction only.

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.

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	7 blade
Crankshaft Pulley	Dual
Water Pump & Fan Pulley	Dual
Compressor & Crankshaft Belt	One*
Generator	63 Ampere

* 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.

CHASSIS

FRAME AND FRONT SUSPENSION

FRAME
- Description ---------- All welded, full length, ladder constructed frame with 5 cross-members. Side rails and intermediate cross-members box section; front crossmember box girder section. Eight body mounting points.

FRONT SUSPENSION
- Description ---------- Independent, SLA type, coil springs with center mounted shock absorbers, spherical joint steering knuckle pivots.
- Wheel trave (design)
  - Total ---------- 7.84
  - Jounce ---------- 3.86
  - Rebound ---------- 3.98
- Wheel to spring, travel ratio ---------- 1.63

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

STEERING KNUCKLES
- Description --------- Forged steel, with integral brake caliper mounting pads 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 (modified)
- Wheel bearings
  - Type ---------- Taper roller

SPHERICAL JOINTS
- Type ---------- Ball stud
  - Upper ---------- Compression
  - Lower ---------- Compression
- Bearing surfaces
  - Upper ---------- Teflon-coated phenolic
  - Lower ---------- Teflon-coated phenolic

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

STABILIZER BAR
- Type ---------- Link
- Material ---------- HR steel
- Diameter ---------- 327 V-8, .750; 427 V-8, .9375
- Bushing material ---------- Rubber

FRONT WHEEL ALIGNMENT (CURB)
- Camber (degrees) ---------- P1/4 to P1-1/4
- Caster (degrees) ---------- P1/2 to P1-1/2
- Toe-in (total) ---------- 3/32 to 5/32
- Steering Axis Inclination (degrees) ----- 6-1/2 to 7-1/2

GENERAL SUSPENSION PROVISIONS
- Car leveling ---------- Front stabilizer bar
- Anti-dive control --- Angle of front upper control arm

FRONT SPRINGS

Part Number	Ref.	Type	Material	Cut-off Length	Wire Dia.	Inside Dia.	Heights Working (In. @ lbs)	Deflection Rate (lbs per inch) @ Spring	Deflection Rate (lbs per inch) @ Wheel
3931823	A	Coil, R.H. helix	Steel alloy	138.25	.600	3.80	9.99 @ 1395	250	
3931825	B			138.75	.618	3.80	9.99 @ 1540	284	

Engine	327 Cu.In. V-8	427 Cu.In. V-8
Model	19400	19400
Reference	A	B

MANUAL STEERING, regular production

Description ---------- Semi-reversiibe, recirculating bearing ball nut steering gear, energy absorbing steering column, steering damper attached to relay rod; two-position steering knuckle arm attachment for street and fast ratio steering. Telescoping steering wheel available optionally.

System ratios

- Steering gear ---------- 16:1
- Overall ratio
  - Street ---------- 20.2:1
  - Fast ---------- 17.6:1

Turning diameters (ft)

- Outside front, wall to wall ----------
- Outside front, curb to curb ----------
- Inside rear, wall to wall ----------
- Inside rear, curb to curb ----------

Number of wheel turns, lock to lock

- Street ---------- 3.4
- Fast ---------- 2.92

Outside wheel angle with inside wheel

- @ 15 degrees ---------- 14.25
- @ 20 Degrees ---------- 18.47
- @ 34 degrees (limit of turn) ---------- 27.34

Linkage ---------- Parallelogram type, rear of front wheels

Steering wheel

- Standard and optional telescoping wheel ------- Deep dished, 16.0 diameter

POWER STEERING, RPO N40

(Same as standard manual steering except as shown)

Description ---------- Hydraulic; pump powered cylinder assisting linkage

Ratios ---------- Gear, 16:1; overall, 17.6:1

Number of wheel turns, lock to lock ---------- 2.92

DRIVELINE

Type ---------- Tubular

Number used ---------- One

Diameter (OD) Manual ---------- 1.995-2.003

Turbo Hydra-Matic ---------- 2.250

Length (C/L of U-joints) Manual ---------- 29.90

Turbo Hydra-Matic --- 29.50

Wall thickness ---------- .092-.097

Universal joints

- Type ---------- Cross
- Number used ---------- Two
- Bearings ---------- Prepack, anti-friction

Drive and torque forces ---------- Through rear suspension control arms

WHEELS (Regular Production)

Type ---------- Short spoke spider

Attachment to hub ----- 5 hex nuts, 7/16-20 UNF 2-B, arranged on a 4.75 diameter bolt circle

Offset ---------- N.28

Rim size ---------- 15 x 7.00

TIRES

Construction ---------- 2 ply

Size and ply rating ---------- F70-15-4PR

Specifications

- Static Loaded Radius ---------- 12.6
- Loaded rev/mi @ 50 MPH ---------- 776
- Capacity (lb @ psi) ---------- 1280 @ 24
- Recommended inflation, all tires, psi ---------- 24

REAR AXLE AND SUSPENSION

REAR AXLE

Description ---------- Fixed differential housing hypoid ring and pinion gear set, tubular articulating inner axle shafts and short solid outer shafts with integral drive flange, independently sprung rear wheels

Pinion offset ---------- 1.5

Pinion bearing adjustment ---------- Shim

Hypoid gear PD all except 2.73:1 ratio ---------- 8.375

2.73:1 ratio ---------- 8.125

Type ---------- Military Spec. MIL-L-2105-B

Viscosity ---------- SAE80

Filler plug ---------- 1-3/8 hex, 1-20 AN thread

Capacity (pts) ---------- 3.7

RING AND PINION GEARS

Axle Ratio	Tooth Combination
2.73	41,15
3.08	37,12
3.36	37,11
3.55	32,9
3.70	37,10
4.11	37,9

AXLE SHAFTS

Inner ---------- Welded steel tubing with universal joint attachments to short shafts at each end.

Outer ---------- Short, splined high-alloy steel with integral wheel mounting flange

Axle bearings

Type ---------- Inner and outer tapered roller, steel encased rubber bearing seals

REAR WHEEL

Description ---------- Brake disc flange integral with axle which is universally-jointed (thru splined axle flange) to axle shaft; torque control arm bolted to axle support. Axle supported by two taper roller bearings

REAR SUSPENSION

Description ---------- Full independent with frame-anchored differential. Position of each wheel established by 3 links: tubular axle drive shafts, transverse strut rods, torque control arms. Vertical suspension loads taken by transverse leaf spring. Built-in camber adjustment at strut rod inner ends.

Wheel travel (design height)

	Coupe		Conv.
Total	6.86	----	6.86
Jounce	2.87	----	2.76
Rebound	3.99	----	4.10

Wheel to spring, travel ratio ---------- 0.90:1

SHOCK ABSORBERS

Type ---------- Direct, double-acting, hydraulic

Piston diameter ---------- 1.00

STRUT

Material ---------- Forged steel

Diameter ---------- .75

STABILIZER BAR (427 V-8)

Diameter ---------- .562

REAR WHEEL ALIGNMENT

Curb

Camber (degrees) ---------- N1-3/8 to N 3/8

Toe-in (total) ---------- 1/32 to 3/32

TORQUE CONTROL ARMS

Description ---------- Welded steel box construction

REAR SPRING

Type ---------- Variable rate, 9-leaf

Material ---------- Chrome carbon steel, heat treated

Length (developed) between eye centers ---------- 46.36

Width ---------- 2.25

Design load, lb @ -camber ---------- 1360 @ .352

Deflection rate, lb per inch, @ design load

@ Spring ---------- 140

@ Wheel (wheel rate) ---------- 123

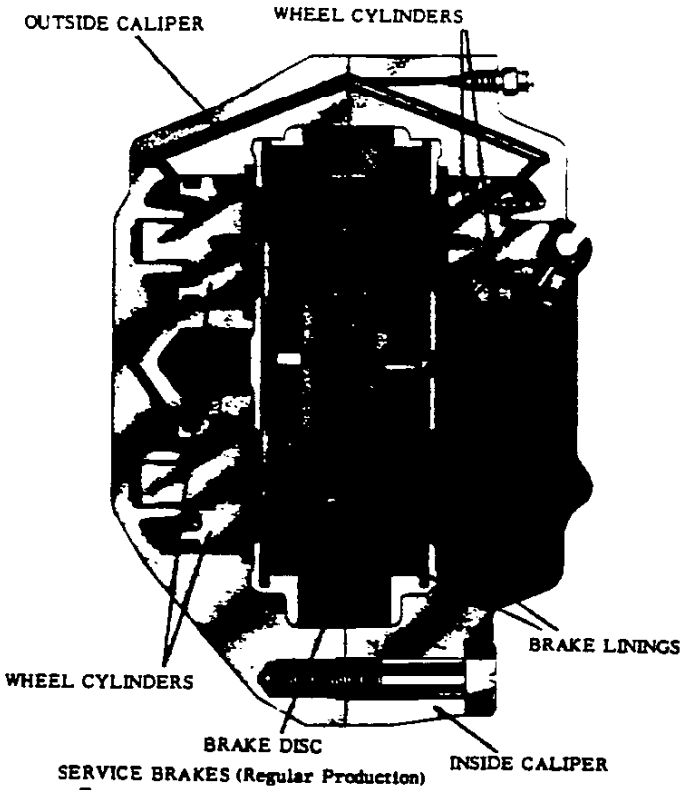
Spring liners

Number ---------- 7

Location ---------- Between all leaves except numbers 6 and 7

Material ---------- Polyethylene with graphite

BRAKES

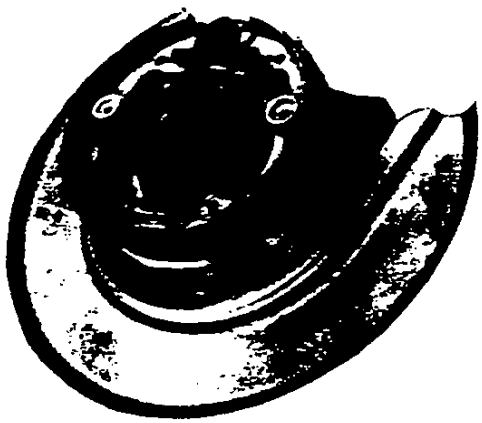


SERVICE BRAKES (Regular Production)

Type	Dual-circuit brake system, pressure differential and parking brake warning light, 4 wheel hydraulic caliper disc brakes
Line pressure; psi, @ 100 lb pedal load	576
Braking ratios	
Pedal	4.52
Hydraulic	43.3
Overall	196.0
Distribution of braking effort	Front 65.0
Brake disc	
Construction	Double faced disc spaced by integrally cast radial cooling passages
Material	Cast iron
Diameter, front & rear	11.75
Swept drum area (sq.in.)	461.2
Brake lining	
Material	Woven asbestos
Size, all segments (L x W x T)	5.96 x 2.21 x .41
Method of attachment	Rivered
Total effective area (sq.in.)	78.1
Gross lining area (sq.in.)	86.3
Master cylinder	
Piston diameter	1.00
Piston travel (with available pedal travel)	1.10
Wheel cylinders	
Number	4 per wheel
Piston diameter	
Front	1.875
Rear	1.375
Foot pedal travel	5.75

PARKING BRAKE

Type	Drum; cast integral with each rear rotor. Internal expanding shoe, mechanically actuated
Control	Lever; floor mounted in center console
Drum diameter	6.5
Brake lining	
Number	2 shoes per each rear wheel
Size (L x W x T)	6.78 x 1.25 x .175
Gross lining area (sq.in.)	33.9



PARKING BRAKE

BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Air conditioning	2-1891	2
Back-up	2-1156	32
Cigarette lighter	1-1445	1
Clock	1-1895	2
Courtesy		
Instrument panel	2-631	6
Rear compartment	1-631	6
Direction signal indicator	2-1895	2
Dome	1-212	6
Glove compartment	1-1895	2
Headlamp Outer	2-4002	High beam 37.5W Low beam 55.0W
Headlamp Inner	2-4001	High beam 37.5W
Headlamp hi-beam indicator	1-1895	2
Headlamp warning indicator	1-257	2
Heater	1-1895	2
Ignition switch	1-1895	2
Instrument cluster	12-1895	2
License plate rear	1-67	4
Parking		
Park	2-1157	4
Turn		32
Parking brake alarm & warning light	1-1895	2
Radio	1-1893	2
Seat separator box	1-1895	2
Side Marker - Front	2-194A	2
Side Marker - Rear	2-194	2
Spot lamp, portable	1-4416	30W
Tail		
Stop and turn	4-1157	32
Tail		4
Underhood	1-93	15

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	AGC 25 fuse	In line
	AGC 25 fuse	Fuse panel (f)
Air conditioning lamp	AGC 4 fuse	Fuse panel (d)
Back-up lamps	AGC 20 fuse	Fuse panel (b)
Cigarette lighter	AGC 20 fuse	Fuse panel (c)
Cigarette lighter lamp	AGC 4 fuse	Fuse panel (d)
Clock	AGC 20 fuse	Fuse panel (c)
Clock lamps	AGC 4 fuse	Fuse panel (d)
Courtesy lamps	AGC 20 fuse	Fuse panel (c)
Defogger, rear window	AGC 20 fuse	Fuse panel (c)
Direction signal indicator lamp	AGC 20 fuse	Fuse panel (d)
Dome lamp	AGC 20 fuse	Fuse panel (c)
Fuel gage	AGC 10 fuse	Fuse panel (b)
Glove compartment lamp	AGC 20 fuse	Fuse panel (c)
Headlamp hi-beam indicator lamp	15 amp CB	Light switch (g)
Headlamp warning indicator lamp	40 amp CB	Hinge pillar (h)
Headlamps	15 amp CB	Light switch (g)
Heater	AGC 25 fuse	Fuse panel (f)
Heater lamp	AGC 4 fuse	Fuse panel (d)
Ignition switch lamp	AGC 4 fuse	Fuse panel (d)
Instrument cluster lamps	AGC 4 fuse	Fuse panel (d)
License plate, rear	AGC 20 fuse	Fuse panel (a)
Brake warning lamp	AGC 10 fuse	Fuse panel (b)
Parking lamps	15 amp CB	Light switch (g)
Power windows	40 amp CB	Hinge pillar (i)
Radio	AGC 10 fuse	Fuse panel (e)
Radio antenna	AGC 20 fuse	Fuse panel (c)
Radio lamp	AGC 4 fuse	Fuse panel (d)
Rear compartment vent motor	AGC 10 fuse	Fuse panel (f)
Speed warning device	AGC 20 fuse	Fuse panel (c)
Side Marker lamp - Front	AGC 20 fuse	Light switch
Side Marker lamp - Rear	AGC 20 fuse	Light switch
Spot lamp, portable	AGC 20 fuse	Fuse panel (c)
Stop lamps	AGC 20 fuse	Fuse panel (d)
Tail lamps	AGC 20 fuse	Fuse panel (a)
Temperature gage	AGC 10 fuse	Fuse panel (b)
Traffic hazard indicator	AGC 20 fuse	Fuse panel (c)
Windshield wiper	14 amp CB	Switch (j)

* Letter suffix indicates same circuit

DIMENSIONS AND WEIGHTS

INTERIOR DIMENSIONS

FRONT COMPARTMENT

CODE	DESCRIPTION	19437	19467	
		COUPE	SOFT TOP	HARDTOP
H5	H point to ground		14.6	
H30	H point to heel point		6.5	
H37	Headlining to roof height	0.7	---	0.9
H54	D point to tunnel		2.9	
H58	H point rise		0.4	
H61	Effective headroom	36.2	37.1	36.0
H65	D point differential, side to center			
H67	Depressed floor covering thickness		0.3	
H70	Body zero line to H point (vert.)		7.0	
L17	H point travel		4.5	
L31	Body zero line to H point (horiz.)		44.7	
L34	Maximum effective leg room - accelerator		43.0	
L40	Back angle (degrees)		33	
L42	Hip angle (degrees)		107	
L44	Knee angle (degrees)		138	
L46	Foot angle (degrees)		88	
L53	H point to accelerator floor point		36.0	

SEAT AND ENTRANCE

H3	Seat chair height		8.8	
H11	Entrance height		29.0	
H26	Interior body height, M/M @ car centerline	33.4	33.6	33.4
H27	Interior body, M/M @ C/LO	40.0	40.2	40.0
H32	Seat cushion deflection		2.2	
H50	Upper body opening to ground		43.6	
W1	Hat room		45.5	
W3	Shoulder room		46.9	
W5	Hip room		48.8	
W16	Seat width (each seat)		20.0	
L14	Seat back thickness		3.5	
L18	Entrance foot clearance		13.2	

VISION AND CONTROL

H6	H point to W/S bottom DLO	19.8
H13	Steering wheel thigh clearance	4.2
H18	Steering column angle (degrees) horizontal	14
H25	Belt height	17.4
H49	H point to top of steering wheel	22.5
H64	H point to W/S upper DLO	29.1
W7	Steering wheel center to car centerline	12.9
W9	Steering wheel maximum O.D.	16.0
W122	Tumble-home (degrees)	26.0
L7	Steering wheel torso clearance	12.4
L13	Brake pedal knee clearance	24.5
L49	H point to W/S upper DLO	12.4
L52	Brake pedal to accelerator	4.0

LENGTHS

CODE	DESCRIPTION	19437	19467	
		COUPE	SOFT TOP	HARDTOP
L101	Wheelbase	98.0		
L102	Tire size (standard)	F70-15		
L103	Overall length	182.1		
L104	Overhang - front	40.2		
L105	Overhang - rear	43.9		
----	Overall length - less bumpers	179.2		
L123	Body upper structure length at car C/L	54.7		
L127	Body O line to C/L of rear wheels	72.0		
L128	Hood length at centerline	54.4		
L129	Deck length @ car C/L	45.6		48.2
L130	Body zero line to W/S cowl point	11.6		

WIDTHS

W101	Tread - front	58.3
W102	Tread - rear	59.0
W103	Maximum overall width of car (W106)	69.2
W106	Front fender overall width	69.2
W107	Rear fender overall width	68.6
W120	Overall car width, front doors open	130.8
W122	Tumble-home (degrees)	26.5

HEIGHTS

H101	Overall height (design)	47.8		
----	Overall height (curb)			
H102	Front bumper to ground	9.2		
H104	Rear bumper to ground	12.3		
H111	Rocker panel to ground - rear	7.6		
H112	Rocker panel to ground - front	7.6		
H114	Hood at rear to ground	26.6		
H115	Step height - front (design)	13.1		
H122	W/S slope angle (degrees)	57		
H125	Headlamp to ground	17.5		
H126	Tail lamp to ground	25.7		
H130	Step height - front (curb)	13.1		
H132	Bottom of door to ground - open			
H133	Bottom of door to ground - closed	10.0		
H136	Body O line to ground - front	7.6		
H137	Body O line to ground - rear	7.6		
H158	Roof thickness	3.3	4.0	3.8
H159	DLO height	11.5	11.9	
H160	Body thickness	25.3		

CLEARANCES

H106	Angle of approach (degrees)	22
H107	Angle of departure (degrees)	21
H147	Ramp breakover angle (degrees)	22
H148	Front suspension to ground	3.7
H149	Oil pan to ground	4.8
H150	Flywheel housing to ground	5.2
H151	Frame to ground	5.4
H152	Exhaust system to ground	4.9
H153	Rear axle to ground	
H154	Fuel tank to ground	Mounted over tire well
H155	Tire well to ground	5.1
H156	Minimum ground clearance (H152)	4.9

VEHICLE WEIGHTS

CORVETTE

Model Symbol	VEHICLE TYPE Description	SHIPPING WEIGHT Front	Rear	Total	CURB WEIGHT Front	Rear	Total
19437	2-Door Sport Coupe	1570	1485	3055	1570	1640	3210
19467	2-Door Convertible	1570	1495	3065	1565	1655	3220

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 the weight 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
A31	Power Windows	+ 5
C07	Auxiliary Top	+ 48
C60	Air Conditioning	+ 95
J50	Power Brakes	+ 10
J56	Heavy Duty Brakes	+ 6
L36	427 Cu.In. V-8	+178
L68	427 Cu.In. V-8	+ 4
L71	427 Cu.In. V-8	+149
L79	327 Cu.In. V-8	+ 12
L89	Aluminum Cylinder Heads	- 73
M20	4-Speed Transmission	- 6
M40	3-Speed Automatic Transmission	+ 63
N40	Power Steering	+ 21
U69	Radio - AM/FM Push-Button	+ 16
U79	Radio Stereo Equipment	+ 11

BODY

EXTERIOR PAINT PROCESS

1. PRIMARY SANDING. All body panels and bonded joints that receive acrylic lacquer are dry sanded to prepare surfaces for painting. A filler material, called putty rub, is applied to the entire body to fill minor imperfections.

2. PRIMER. Two coats of primer are applied -- the first red and the second gray -- and are oven baked for 60 minutes at 280 degrees F.

3. WET SANDING. The body is wet sanded to provide a smooth surface for the sealers. Most of the gray primer coat is removed with the red primer acting as a depth signal for the sanding operation. The body is dried to remove all moisture.

4. SEALER. One coat of sealer and one coat of color acrylic lacquer are applied and baked.

5. DRY SANDING. The body is dry sanded to prepare surfaces for the final acrylic lacquer.

6. LACQUERING. Three coats of acrylic lacquer are sprayed on the body to build up the required paint thickness. The paint is "rested" for eight minutes to permit it to partially set up and to remove excess volatile paint vehicle.

7. INITIAL BAKING. The body is oven baked for 30 minutes at 140 degrees F to harden the paint which permits the subsequent operation. Small interior and exterior parts are painted to complete the body paint schedule.

8. FINAL BAKING. To assure a durable, hard, high luster finish the lacquer is oven baked for 45 minutes at 250 degrees F. Reheating the lacquer permits the paint film to soften and allows surface blemishes and sanding scratches to disappear during the thermo-reflow process.

9. FINAL SANDING AND POLISHING. The body is lightly oil sanded and polished to bring painted surfaces to a high luster finish.

CORVETTE

MODELS		TRIM	INTERIOR COLORS AND RPO NUMBERS						
37	67		Black	Red	Med. Blue	Dark Blue	Dark Orange	Tobacco	Gun Metal
X	X	Vinyl	Prod.	407	414	411	425	435	442
X	X	Leather	402	408	415	--	426	436	--
RPO	EXTERIOR COLOR								
900	Black		X	X	X	X	X	X	X
972	White		X	X	X	X	X	X	X
974	Red		X	X	--	--	--	--	--
976	Medium Blue		X	--	X	X	--	--	--
978	Dark Blue		X	--	X	X	--	--	--
983	Dark Green		X	--	--	--	--	--	--
984	Yellow		X	--	--	--	--	--	--
986	Silver		X	--	--	X	--	--	X
988	Maroon		X	--	--	--	--	--	--
992	Copper Bronze		X	--	--	--	X	X	--

Convertible top: Black (regular production) - Beige or white (RPO C05) with any exterior color.

Vinyl top (RPO C08): Black with any exterior color for removable hardtop models.

BODY CONSTRUCTION AND GLASS AREA

GENERAL

Construction ---------- Uniconstruction: fiber glass reinforced plastic body backboned by a steel cage outlining the passenger compartment. Principal members — underbody, front and rear end assemblies, dash panel and hinge pillars are bonded, riveted, or bolted together and to each other. Hood is plastic with bonded plastic reinforcement. Coupe: two removable roof panels and removable rear window.

DOORS AND LOCKS

Construction ---------- Plastic, double paneled, reinforced with steel at hinge and lock locations. Front hinged.

Door handles ---------- Push-button and press-flap handles with fork-type latches. Inside door locking knob on each door, free-wheeling 2-position inside door handles.

HOOD

Operation ---------- Internal release lever. Front hinged with telescoping link on right side. Ratchet-type lock for hold open.

VENTILATION

Type ---------- "Saddlebag" cowl top air inlets channel air to cowl side kick panel outlets controlled by bowden cable and slide type levers mounted in instrument panel center console. Water drainage at base of "saddlebag" plenum chambers.

SEATS

Type and construction ---------- Bucket; leather grained vinyl covering over polyurethane padding.

WINDSHIELD WIPERS

Type ---------- Concealed, dual, two-speed, electric vacuum operated cowl panel; washer provided.

Linkage ---------- Parallel acting

HEADLIGHTS

Type ---------- Vacuum operated, retractable

SPARE TIRE

Location ---------- In well under fuel tank; accessible from underside of car. Cover with key lock provided.

TOOLS

Type ---------- Scissors jack, and combination jack handle and lug wrench.

Stowage ---------- In well in luggage area directly behind passenger seat; carpeted door over well.

BODY GLASS VISIBILITY AREA

	MODELS	
LOCATION	37	67
Windshield		
Front door window		
Rear quarter window		
Back window		
Total area (sq.in.)		

POWER TRAINS

POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS (A) 2.73:1	3.08:1	3.36:1	3.55:1	3.70:1	4.11:1
327 Cu.In. V-8 Turbo-Fire 327 300 HP Standard	3-Spd (2.54:1 low) & 4-Spd (2.52:1 low)	All Models		Econ.#	Std.*			
	Turbo Hydra-Matic			Std.#				
327 Cu.In. V-8 Turbo-Fire 327 350 HP RPO L79	4-Spd (2.52:1 low)	All Models			Std.*	Perf.#		
	4-Spd (2.20:1 low)						Std.*	Perf.#
427 Cu.In. V-8 Turbo-Jet 427 390 HP RPO L36	4-Spd (2.52:1 low)	All Models		Std.#	Perf.#			
	4-Spd (2.20:1 low)			Econ.#	Std.#	Perf.#	Spcl.#	
	Turbo Hydra-Matic		Econ.#	Std.#				
427 Cu.In. V-8 Turbo-Jet 427 400 HP RPO L68	4-Spd (2.52:1 low)	All Models		Std.#	Perf.#			
	4-Spd (2.20:1 low)			Econ.#	Std.#	Perf.#	Spcl.#	
	Turbo Hydra-Matic		Econ.#	Std.#				
427 Cu.In. V-8 Turbo-Jet 427 435 HP RPO L71	4-Spd (2.20:1 low)	All Models			Econ.#	Std.#	Perf.#	Spcl.#

(A) Air conditioning available with the same engine,-transmission, axle combinations except RPO L71.

* Positraction axles available optionally.

\# Available as positraction only.

Std. - Standard
Econ. - Economy (optional)
Perf. - Performance (optional)
Spcl. - Special (optional)

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION 1st	2nd	3rd	4th	Rev	AXLE RATIO
327 Cu.In. V-8 300 HP Standard	4-Barrel	3-Speed (2.54:1)	8.53	5.04	3.36		8.84	3.36
		4-Speed (2.52:1)	8.47	6.32	4.91	3.36	8.70	
327 Cu.In. V-8 350 HP RPO L79	4-Barrel	4-Speed (2.52:1)	8.47	6.32	4.91	3.36	8.70	3.36
		4-Speed (2.20:1)	8.14	6.07	4.70	3.70	8.36	3.70
427 Cu.In. V-8 390 HP RPO L36	4-Barrel	4-Speed (2.52:1)	7.76	5.79	4.50	3.08	7.98	3.08
		4-Speed (2.20:1)	7.39	5.51	4.27	3.36	7.59	3.35
427 Cu.In. V-8 400 HP RPO L68	3 x 2-Barrel	4-Speed (2.52:1)	7.76	5.79	4.50	3.08	7.98	3.08
		4-Speed (2.20:1)	7.39	5.51	4.27	3.36	7.59	3.36
427 Cu.In. V-8 435 HP RPO L71	3 x 2-Barrel	4-Speed (2.20:1)	7.81	5.82	4.51	3.55	8.02	3.55

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION	AXLE RATIO
327 Cu.In. V-8 Standard and 427 Cu.In. V-8 RPO L36 & L68	Turbo Hydra-Matic	Drive	17.56:1 - 3.08:1	3.08:1
		Low	17.56:1 - 7.64:1	
		Second	17.56:1 - 4.56:1	
		Reverse	14.72:1 - 6.41:1	

GENERAL DATA

Engine Type		V-8 OHV				
Piston Displacement (Cu.In.)		327		427		
Availability		Standard	RPO L79	RPO L36	RPO L68	RPO L71
Number of Cylinders		Eight				
Bore and Stroke (nominal)		4.00x3.25		4.251x3.76		
Compression Ratio		10.0:1	11.0:1	10.25.1		11.0:1
Taxable (SAE) Horsepower		51.2		57.8		
Firing Order		1-8-4-3-6-5-7-2				
Idling Speed (RPM) (In neutral)		700 (a)	750	700 (a)	750(a)	750
Compression Press. (PSI) @ Cranking Speed, Engine Hot		160		160		170
Lubrication		Full pressure				
Power Plant Mounting		Two front and one rear, compression type				
Measurements	Fan to rear of engine block	30.64	30.78	32.14		
	Top air cleaner to bottom oil pan	26.27		27.81		
	Exhaust manifold to generator (width)	29.71		31.04		

(a) 600 for Automatic in drive

ADVERTISED ENGINE RATING

Engine	327 Cu.In.		427 Cu.In.		
	300 HP	350 HP	390 HP	400 HP	435 HP
Availability	Standard	RPO L79	RPO L36	RPO L68	RPO L71
Gross Brake HP @ RPM	300 @ 5000	350 @ 5800	390 @ 5400	400 @ 5400	435 @ 5800
Gross Torque @ RPM (lb-ft)	360 @ 3400	360 @ 3600	460 @ 3600	460 @ 3600	460 @ 4000

ENGINE SPEED AND PISTON TRAVEL

Transmission		327 Cu.In.				427 Cu.In.			
		3-Spd (a)	4-Speed		Trb/Hd(a)	4-Speed			Trb/Hd (f)
Rear Axle Ratio		3.36:1	3.36:1	3.70:1 (b)	3.08:1	3.08:1 (c)	3.36·1 (d)	3.55:1 (e)	3.08:1
Tire Size		F70 x 15							
Crankshaft Revolutions per Mile		2573.8		2834.2	2539.3	2359.3	2573.8	2719.3	2359.3
Crankshaft RPM@MPH	Low	108.9	108.1	103.9	97.5	99.1	94.4	99.7	97.5
	Second	64.3	80.6	77.5	1.48	73.9	70.3	74.3	58.2
	Third	42.9	62.6	59.9	39.3	57.4	54.5	57.6	39.3
	Fourth		42.9	47.2		39.3	42.9	45.3	
	Reverse	112.8	111.1	106.7	81.8	101.8	96.9	102.4	81.8
Piston Travel (Ft/Mile)		1394.1		1535.2	1277.9	1479.0	1612.9	1704.1	1479.0

(a) Available with 300 HP (Base) engine only
(b) Standard ratio for 350 HP (L79) engine with 2.20:1 low transmission
(c) Standard ratio for 390 HP (L36) & 400 HP (L68) engines with 2.52:1 low transmission
(d) Standard ratio for 390 HP (L36) & 400 HP (L68) engines with 2.20:1 low transmission
(e) Standard ratio for 435 HP (L71) engine with 2.20:1 low transmission
(f) Available only with 390 HP (L36) & 400 HP (L68) engines

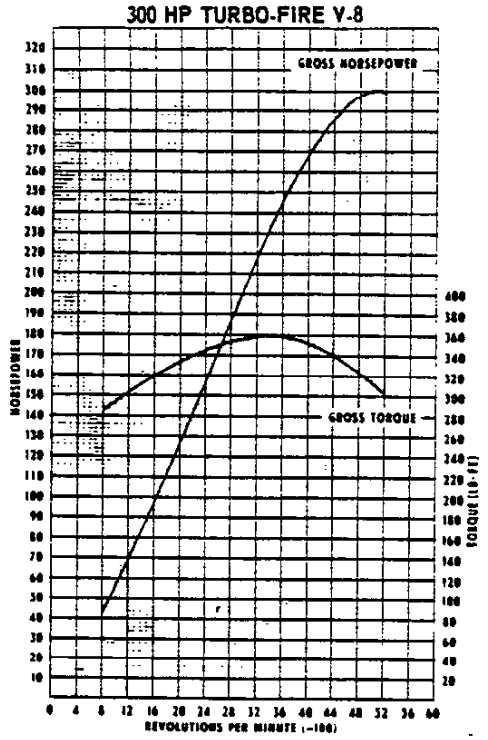
VEHICLE PERFORMANCE FACTORS

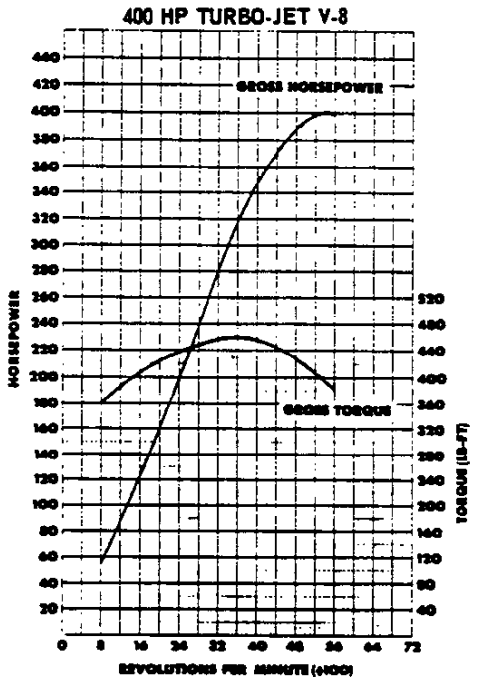
ENGINE	BASE 327 CU.IN. 300 HP	RPO L79 327 CU.IN. 350 HP	RPO L36 427 CU.IN. 390 HP	RPO L68 427 CU.IN. 400 HP	RPO L71 427 CU.IN. 435 HP
3-SPEED TRANSMISSION					
Performance Weight (pounds)	3510				
Pounds per Gross Horsepower	11.70				
Pounds per Cu.In. Displacement	10.73				
Gross HP per Cu.In. Displacement	.917				
Power Displacement (cu.ft./mile)	243.52				
Displacement Factor (cu.ft./ton mile)	138.76				
4-SPEED TRANSMISSION					
Performance Weight (pounds)	3504	3516	3682	3686	3653
Pounds per Gross Horsepower	11.68	10.05	9.44	9.21	8.40
Pounds per Cu.In. Displacement	10.72	10.75	8.62	8.63	8.55
Gross HP per Cu.In. Displacement	.917	1.070	.913	.937	1.019
Power Displacement (cu.ft./mile)	243.52	243.52	291.50	291.50	335.98
Displacement Factor (cu.ft./ton mile)	139.00	138.52	158.34	158.16	184.00
TURBO HYDRA-MATIC					
Performance Weight (pounds)	3573		3751	3755	
Pounds per Gross Horsepower	11.91		9.62	9.38	
Pounds per Cu.In. Displacement	10.93		8.78	8.79	
Gross HP per Cu.In. Displacement	.917		.913	.937	
Power Displacement (cu.ft./mile)	223.23		291.50	291.50	
Displacement Factor (cu.ft./ton mile)	124.99		155.46	155.30	

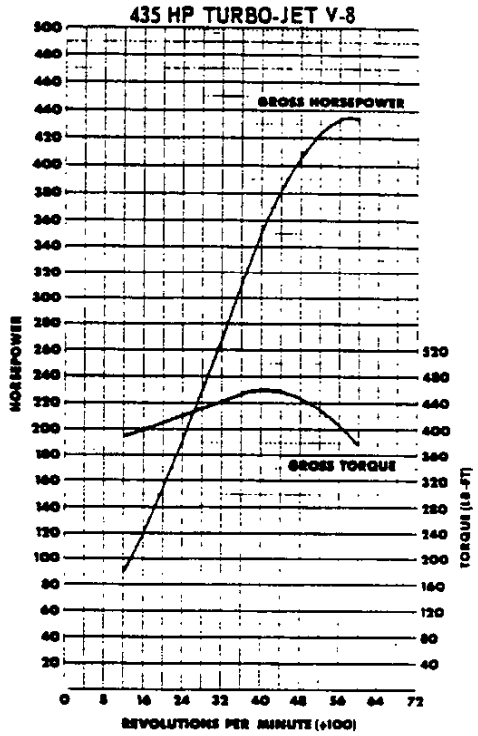
GLOSSARY

Performance Weight	**Curb Weight plus 300 Lb (weight of two 150 lb passengers)**
Power Displacement	**$\frac{\text{Crankshaft Revs/Mi x Piston Displacement}}{2 \times 1728}$**
Displacement Factor	**$\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$**

ENGINE OUTPUT CURVES







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

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system, no fan, generator not charging, optimum spark advance, and optimum fuel setting.

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

PRINCIPAL COMPONENTS

CYLINDER BLOCK
- Material ---------- Cast alloy iron
- Bore Diameter
  - V8-327 Cu.In. ---------- 3.9995-4.0025
  - V8-427 Cu.In. ---------- 4.2495-4.2525
- Bore Spacing (Centerline to Centerline)
  - V8-327 Cu.In. ---------- 4.4
  - V8-427 Cu.In. ---------- 4.84
- Number of Bulkheads ---------- 5
- Water Jackets ------ Full length around each cylinder
- Cylinder Numbering Arrangement (Front to Rear)
  - Left Bank ---------- 1-3-5-7
  - Right Bank ---------- 2-4-6-8

CYLINDER HEAD
- Material ---------- High chrome cast alloy iron
- Bolt Number --------- 34 (327 Cu.In.); 32 (427 Cu.In.)
- Bolt Size ---------- .4375 dia.; 14 threads/inch

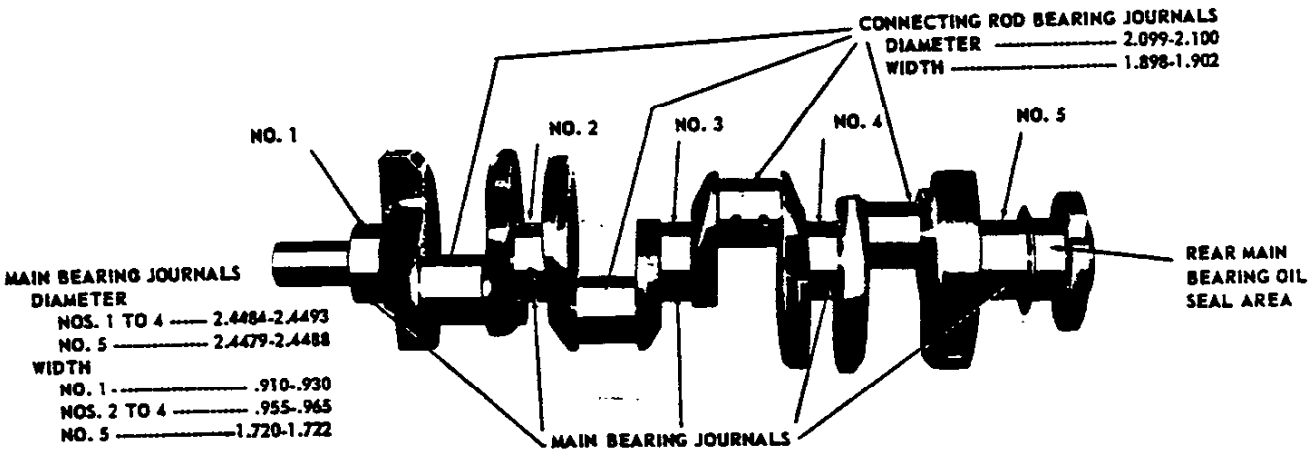
COMBUSTION CHAMBER VOLUME
(Total chamber volume of assembled engine with piston at top center)
- V8-327 Cu.In. (Base) ---------- 4.69 Cu.In.
- V8-327 Cu.In. (RPO L79) ---------- 4.25 Cu.In.
- V8-427 Cu.In. (RPO L36 & L68) ---------- 5.94 Cu.In.
- V8-427 Cu.In. (RPO L71) ---------- 5.08 Cu.In.

INLET MANIFOLD
- Material
  - V8-327 Cu.In. (Base & RPO L79) --- Cast alloy iron
  - V8-427 (L36, L68 & L71) - Cast aluminum alloy
- Heat Provision ---------- Exhaust gas crossover at carburetor mounting pad

EXHAUST MANIFOLD
- Material ---------- Cast alloy iron
- Type
  - V8-327 Cu.In. --- Dual, 4 port, exhaust emission to a single runner with center takedown collector
  - V8-427 Cu.In. ------ Dual, 4 port, extended runners from each port converging to a rear takedown collector
- Outlet Diameter (Nominal) ---------- 2.50

CRANKSHAFT
- Material
  - V8-327 Cu.In. (RPO L30) ---------- Nodular iron
  - V8-327 (RPO L79) & 427 Cu.In. ------ Forged steel Hardened journals on RPO L71
- End Play
  - V8-327 Cu.In. ---------- .002-.006
  - V8-427 Cu.In. ---------- .006-.010
- Counter Weights ---------- 6
- Crank Arm Length
  - V8-327 Cu.In. ---------- 1.625
  - V8-427 Cu.In. ---------- 1.88
- Torsional Damper ---------- Rubber mounted inertia
- Timing Gear ---------- Steel; sprocket & chain
- Pulley Pitch Diameter ---------- 6.64

CRANKSHAFT
327 CUBIC INCH V-8 ENGINE



MAIN BEARINGS

Material ---------- Premium aluminum except No. 5 sintered copper nickel backed babbitt

Type ---------- Precision removable

Thrust Against Bearing No. ---------- 5

Clearance

V8-327 Cu.In. ---------- (#1) .0008-.0020; (#2, 3 & 4) .0008-.0024; (#5) .0015-.0031

V8-427 Cu.In. (RPO L36 & L68) -- (#1 & 2) .0010-.0020; (#3 & 4) .0013-.0025; (#5) .0015-.0031

V8-427 Cu.In. (RPO L71) ------- (#1-4) .0013-.0025; (#5) .0015-.0031

Dimensions	Theoretical Inner Dia.	Effective Length	Projected Area
V8-327 Cu.In.			
Bearing #1	2.4502	.752	1.8425
Bearing #2-4	2.4505	.752	1.8428
Bearing #5	2.4507	1.177	2.8844
V8-427 Cu.In. (RPO L36 & L68)			
Bearing #1-2	2.7507	.992	2.7287
Bearing #3-4	2.7505	.992	2.7285
Bearing #5	2.7506	1.2525	3.4451
V8-427 Cu.In. (RPO L71)			
Bearing #1-4	2.7505	.992	2.7285
Bearing #5	2.7506	1.2525	3.4451

CAMSHAFT

Material ---------- Cast alloy iron

Drive ---------- Sprocket & chain; steel

Lobe Lift

V8-327 Cu.In. (Base) ----- .2600 Inlet; .2733 Exhaust

V8-327 Cu.In. (RPO L79) ------ .2981 Inlet & Exhaust

V8-427 Cu.In. (RPO L36 & L68) ---------- .2714 Inlet; .2824 Exhaust

V8-427 Cu.In. (RPO L71) ------ .3057 Inlet & Exhaust

Bearings ---------- 5; steel backed babbitt

VALVE TRAIN

Type ---------- Individually mounted overhead rocker arms, push rod actuated

Lifters ---------- Hydraulic

V8-427 Cu.In. (RPO L71) - Mechanical

Push Rods

Type ---------- Hollow steel

Ends

V8-327 (Base) ---------- Hardened

V8-327 Cu.In. (RPO L79) -------- Hardened steel insert on rocker arm ends

V8-427 Cu.In. ---------- Hardened steel inserts

Rocker Arms

Material ---------- Stamped steel

Ratio

V8-327 Cu.In. ---------- 1.50:1

V8-427 Cu.In. ---------- 1.70:1

VALVE SPRINGS

Diameter (I.D.)

V8-327 Cu.In. ---------- .868-.884

V8-427 Cu.In. ---------- 1.082-1.098

Installed Length (lb. @ in.)

Valves Closed

V8-327 Cu.In. ---------- 76-84 @ 1.70

V8-427 Cu.In. ---------- 94-106 @ 1.88

Valves Opened

V8-327 Cu.In. ---------- 194-206 @ 1.25

V8-427 Cu.In. ---------- 303-327 @ 1.38

Free Length

V8-327 Cu.In. ---------- 2.03

V8-427 Cu.In. ---------- 2.09

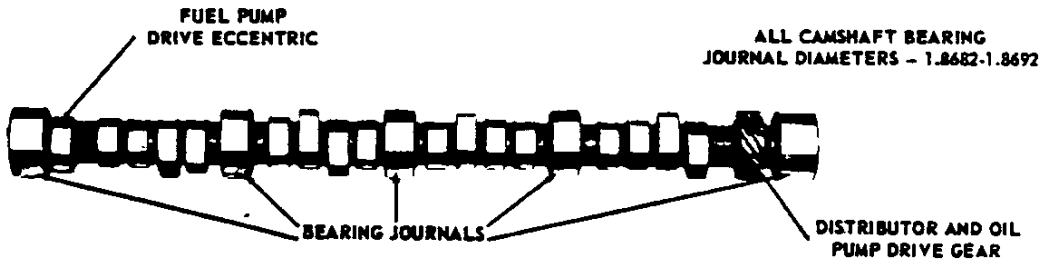
Valve Spring Damper

V8-327 Cu.In. ---------- Flat steel, 4 coils

V8-427 Cu.In. ---------- Flat steel, 3.62 coils

CAMSHAFT

327 CUBIC INCH V-8 ENGINE



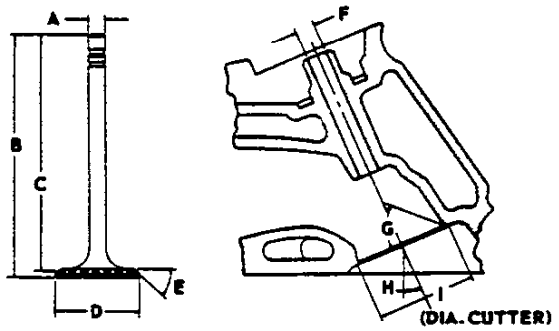
PRINCIPAL COMPONENTS—Cont'd.

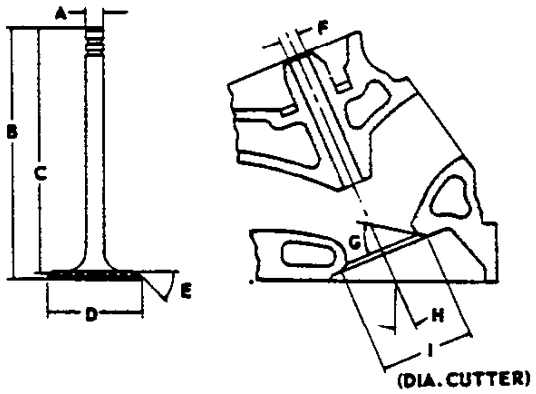
VALVES - INLET

Material	Alloy steel
Coating	
V8-327 Cu.In. (RPO L30)	None
V8-327 (RPO L79) & 427 Cu.In.	Face & head aluminized, also chrome flash stem on V8-327 (RPO L79) & 427 (RPO) L71 Cu.In.
Valve Guide Inserts (V8-427)	Cast alloy iron

VALVE - EXHAUST

Material	High alloy steel
Coating	
V8-327 Cu.In.	Aluminum face
V8-427 Cu.In.	Face & head aluminized, also chrome flash stem on V8-327 (RPO L79) & 427 (RPO L71) Cu.In.
Valve Guide Inserts (V8-427)	Cast alloy iron





A - Stem Diameter	
V8-327 Cu.In.	.3410-.3417
V8-427 Cu.In.	.3715-.3722
B - Overall Length	
V8-327 Cu.In.	4.870-4.889
V8-427 Cu.In. (RPO L36 & L68)	5.215-5.235
V8-427 Cu.In. (RPO L71)	5.204-5.224
C - Gage Length	
V8-327 Cu.In.	4.785-4.795
V8-427 Cu.In.	5.115-5.125
D - Overall Head Diameter	
V8-327 Cu.In. (Base)	1.935-1.945
V8-327 Cu.In. (RPO L79)	2.017-2.023
V8-427 Cu.In. (RPO L36 & L68)	2.060-2.070
V8-427 Cu.In. (RPO L72)	2.185-2.195
E - Angle of Face	45°
F - Guide Diameter	
V8-327 Cu.In.	.3427-.3437
V8-427 Cu.In.	.3732-.3742
G - Angle of Seat	46°
H - Valve Angle	
V8-327 Cu.In.	23°
V8-427 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
V8-327 Cu.In. (Base)	1.990-2.010
V8-327 Cu.In. (RPO L79)	2.020
V8-427 Cu.In.	2.150

A - Stem Diameter	
V8-327 Cu.In.	.3410-.3417
V8-427 Cu.In.	.3713-.3720
B - Overall Length	
V8-327 Cu.In. (Base)	4.913-4.933
V8-327 Cu.In. (RPO L79)	4.891-4.910
V8-427 Cu.In.	5.345-5.365
C - Gage Length	
V8-327 Cu.In.	4.781-4.791
V8-427 Cu.In.	5.235-5.245
D - Overall Head Diameter	
V8-327 Cu.In. (Base)	1.495-1.505
V8-327 Cu.In. (RPO L79)	1.595-1.605
V8-427 Cu.In.	1.715-1.725
E - Angle of Face	45°
F - Guide Diameter	
V8-327 Cu.In.	.3427-.3437
V8-427 Cu.In.	.3732-.3742
G - Angle of Seat	46°
H - Valve Angle	
V8-327 Cu.In.	23°
V8-427 Cu.In.	4°
I - Valve Seat (Cutter) Diameter	
V8-327 Cu.In. (Base)	1.550-1.570
V8-327 Cu.In. (RPO L79)	1.600
V8-427 Cu.In.	1.625

PISTONS

Material
- V8-327 Cu.In.(Base) ---------- Cast aluminum alloy
- V8-327 Cu.In.(RPO L79) - Aluminum impact extruded
- V8-427 Cu.In.(RPO L36 & L68) -- Cast aluminum alloy
- V8-427 Cu.In.(RPO L71) - Aluminum impact extruded

Head Type
- V8-327 Cu.In.(Base) ---------- Flat, notched
- V8-327 Cu.In.(RPO L79) ---------- Domed
- V8-427 Cu.In. ---------- Domed

Skirt Type ---------- Slipper

Top Land Clearance
- V8-327 Cu.In.(Base) ---------- .0365-.0455
- V8-427 Cu.In.(RPO L36 & L68) ---------- .0305-.0375
- V8-427 Cu.In.(RPO L71) ---------- .0265-.0335

Skirt Clearance
- V8-327 Cu.In.(Base) ---------- .0005-.0011
- V8-327 Cu.In.(RPO L79) ---------- .0024-.0030
- V8-427 Cu.In.(RPO L36 & L68) ---------- .0012-.0018
- V8-427 Cu.In.(RPO L71) ---------- .0040-.0046

Compression Ring Groove Depth
- V8-327 Cu.In. ---------- .2217-.2283
- V8-427 Cu.In. ---------- .2348-.2413

Oil Ring Groove Depth
- V8-327 Cu.In. ---------- .2038-.2103
- V8-427 Cu.In.(RPO L36 & L68) ---------- .2183-.2248
- V8-427 Cu.In.(RPO L71) ---------- .2133-.2148

Pin Bore Offset
- V8-327 (Base) & 427 (RPO L36 & L68) ------ .055-.065
- V8-327 (RPO L79) & 427 (RPO L71) ------ On center

Compression Height
- V8-327 Cu.In.(Base) ---------- 1.674-1.676
- V8-327 Cu.In.(RPO L79) ---------- 1.673-1.677
- V8-427 Cu.In.(RPO L36 & L68) ------- 1.908-1.912
- V8-427 Cu.In.(RPO L71) ---------- 2.068-2.072

PISTON PINS

Material ---------- Chromium steel

Length
- V8-327 Cu.In. ---------- 2.990-3.010
- V8-427 Cu.In. ---------- 2.930-2.950

Diameter
- V8-327 Cu.In. ---------- .9270-.9273
- V8-427 Cu.In. ---------- .9895-.9898

Clearance in Piston
- V8-327 Cu.In.(Base) ---------- .00015-.00025
- V8-327 Cu.In.(RPO L79) ---------- .00045-.00055
- V8-427 Cu.In.(RPO L36 & L68) ------ .00025-.00035
- V8-427 Cu.In.(RPO L71) ---------- .00030-.00040

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

VALVE LIFT
- V8-327 Cu.In.(Base) ------ .3900 Inlet & .4100 Exhaust
- V8-327 Cu.In.(RPO L79) ------- .4472 Inlet & Exhaust
- V8-427 Cu.In.(RPO L36 & L68) ---------- .4614 Inlet; .4800 Exhaust
- V8-427 Cu.In.(RPO L71) ------- .5197 Inlet & Exhaust

VALVE TIMING (Crankshaft Degrees)

V8-327 Cu.In. - Base	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°

V8-327 Cu.In. - RPO L79	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	40°	54°
Closes - ABC	86°	108°
Duration	306°	342°
Exhaust Valve (Zero lash)		
Opens - BBC	88°	102°
Closes - ATC	38°	60°
Duration	306°	342°

V8-427 Cu.In. - RPO L36 & L68	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°

V8-427 Cu.In. - RPO L71

Inlet Valve (opens with .024 lash)		
Opens - BTC		44°
Closes - ABC		92°
Duration		316°
Exhaust Valve (closes with .028 lash)		
Opens - BBC		86°
Closes - ATC		36°
Duration		302°

PRINCIPAL COMPONENTS—Cont'd.

COMPRESSION RING - UPPER

Material	Cast alloy iron
Type	Straight edge inside of ring
Face	Barrel
Coating	
V8-327 Cu.In. (Base)	Chrome plate
V8-327 Cu.In. (RPO L79)	Molybdenum inlay
V8-427 Cu.In.	Molybdenum inlay
Width	
V8-327 Cu.In. (Base)	.0775-.0780
V8-327 Cu.In. (RPO L79)	.0770-.0775
V8-427 Cu.In.	.0770-.0775
Wall Thickness	
V8-327 Cu.In.	.190-.200
V8-427 Cu.In.	.202-.212
Gap	.010-.020

COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Type	Inside bevel (top of ring 30 degrees to piston vertical axis for V8-327; 28°-52° for V8-427
Face	Tapered
Coating	
V8-327 Cu.In. (Base)	Wear resistant
V8-327 Cu.In. (RPO L79)	Chrome plate
V8-427 Cu.In. (RPO L36 & L68)	Wear resistant
V8-427 Cu.In. (RPO L71)	Chrome plate
Width	
V8-327 Cu.In. (Base)	.0770-.0775
V8-327 Cu.In. (RPO L79)	.0775-.0780
V8-427 Cu.In.	.0770-.0775
Wall Thickness	
V8-327 Cu.In.	.190-.200
V8-427 Cu.In.	.202-.212
Gap	
V8-327 Cu.In. (Base)	.013-.025
V8-327 Cu.In. (RPO L79)	.013-.023
V8-427 Cu.In.	.010-.020

OIL CONTROL RINGS

Type	Multi-piece (two rails and one spacer)
Material	
Rails	Steel
Spacer	Alloy steel
Width (assembled)	
V8-327 Cu.In.	.1870-.1890
V8-427 Cu.In.	.1870-.1890
Wall Thickness	
V8-327 Cu.In.	.150-.156
V8-427 Cu.In.	.137-.143
Gap	
V8-327 Cu.In.	.015-.055
V8-427 Cu.In.	.010-.030
Rail Coatings	Chrome plated

CONNECTING RODS

Material	Drop forged steel
V8-427 (RPO L71)	High alloy steel
Length (center to center)	
V8-327 Cu.In.	5.699-5.701
V8-427 Cu.In.	6.130-6.140

CONNECTING ROD BEARINGS

Material	Premium aluminum
Type	Precision removable
Clearance	
V8-327 Cu.In.	.0007-.0027
V8-427 Cu.In. (RPO L36 & L68)	.0009-.0029
V8-427 Cu.In. (RPO L71)	.0014-.0034
Theoretical I.D.	
V8-327 Cu.In.	2.1017
V8-427 Cu.In. (RPO L36 & L68)	2.2014
V8-427 Cu.In. (RPO L71)	2.2019
Effective Length	
V8-327 Cu.In.	.797
V8-427 Cu.In.	.857
End Play	
V8-327 Cu.In.	.009-.013
V8-427 Cu.In.	.016-.020

FUEL SYSTEM

FUEL TANK
- Capacity (Gal) ---------- 20 (approximately)
- Location ---------- In body cavity at rear of deck area
- Filler Location ---------- Center of rear deck lid

FUEL FILTERS, DUAL
- In Fuel Tank ---------- Mesh strainer
- Carburetor Inlet ---------- Paper

FUEL PUMP
- Type ---------- Diaphragm
- Drive ---------- Camshaft eccentric
- Location ---------- Lower right front of engine
- Pressure Range ---------- 5.00-6.50 PSI

AIR CLEANER
- Type
  - V8-327 & 427 (RPO L36) ---------- Full circle intake, chrome plated
  - V8-427 (RPO L68 & L71) ---------- Triangular shaped, chrome plated
- Filter Element ---------- Oil-wetted paper
  - V8-427 (RPO L68 & 71) ------ Polyurethane

CARBURETORS
- Make & Type
  - V8-327 Cu.In. ---------- Rochester, Quadrajet
  - V8-427 Cu.In. (RPO L36) ------ Rochester, Quadrajet
  - V8-427 Cu.In. (RPO L68 & L71) --------- Holley, 3 x 2
- SAE Flange Size ---------- 1.50
- Throttle Bore
  - V8-327 & 427 Cu.In. (RPO L36)
    - Primary ---------- 1.38
    - Secondary ---------- 2.25
  - V8-427 Cu.In. (RPO L68 & L71)
    - Primary (No. 1) ---------- 1.50
    - Secondary (No. 2 & 3) ---------- 1.75
- Venturi Diameter
  - V8-327 & 427 Cu.In. (RPO L36)
    - Primary ---------- 1.09
    - Secondary ---------- Air valve
  - V8-427 Cu.In. (RPO L68 & L71)
    - Primary (No. 1) ---------- 1.188
    - Secondary (No. 2 & 3) ---------- 1.375
- Secondary Throttle Actuation ---------- By linkage approximately when primary valves are opened half between closed and open

CHOKE
- Type ---------- Automatic

EXHAUST AND VENTILATION SYSTEM

EXHAUST SYSTEM
- Type ---------- Dual with no resonators

MUFFLERS
- Type ---------- Dual, reverse flow
- Construction ---------- Heads and body joined by rolled lock seam construction
- Shell
  - Right Hand ---------- .036 stainless steel
  - Left Hand -------- .036 sheet steel aluminum coating
- Wrap ---------- .030 indented asbestos sheet
- Cover ---------- .018 sheet steel aluminum coating
- Heads
  - Right Hand ---------- .048 stainless steel
  - Left Hand -------- .048 sheet steel aluminum coating
- Baffles
  - Right Hand --------- 4; #1 & #4, .036 stainless steel; #2 & #3, .036 sheet steel aluminum coating
  - Left Hand ----- 4; .036 sheet steel aluminum coating
- Length, Body ---------- 17.00
- Width (I.D.) ---------- 9.25
- Height (I.D.) ---------- 5.00

EXHAUST PIPES
- Type ---------- Two piece; front and rear assemblies
- Material ---------- Seamless steel tubing
- Dimensions (O.D.) ---------- 2.50
- Wall Thickness
  - Front Pipes ---------- .072-.092
  - Rear Pipes ---------- .084-.104 laminated

TAIL PIPES
- Material ---------- Stainless steel
- Dimensions (O.D.) ---------- 2.62
- Wall Thickness ---------- .062-.072

ENGINE VENTILATION
- Type ---------- Closed-positive

AIR INJECTION REACTOR EQUIPMENT (All)
- Type ---------- Air injected into exhaust ports crankshaft driven pump

LUBRICATION SYSTEM

GENERAL
- Type ---------- Controlled full pressure
- Main Bearings ---------- Pressure
- Connecting Rods ---------- Pressure
- Piston Pins ---------- Splash
- Cylinder Walls ---------- Pressure, jet cross sprayed
- Camshaft Bearings ---------- Pressure
- Valve Lifters ---------- Pressure
- Rocker Arms ---------- Pressure
- Timing Gears ---------- Centrifugally oiled from front camshaft bearing
- Oil Pressure Sending Unit ---------- Electric
- Oil Filler
  - Cap ---------- Positive seal
  - Location
    - V8-327 Cu.In. ------- Left front of intake manifold
    - V8-427 Cu.In. -- Top center of right rocker cover

OIL PUMP
- Type ---------- Gear
- Normal Oil Pressure (Bench test-no flow conditions)
  - V8-327 Cu.In. ---------- 30-45 PSI @ 1500 RPM
  - V8-427 Cu.In. ---------- 50-75 PSI @ 2000 RPM
- Intake Type ---------- Fixed
- Capacity (GPM @ Eng. RPM)
  - V8-327 Cu.In. ---------- 4.3 @ 2000
  - V8-427 Cu.In. ---------- 6 @ 2000
- Regulator Valve ---------- Opens between 40-45 lbs

OIL DIP STICK - LOCATION
- V8-327 Cu.In. --------- Left side, rear of engine block
- V8-427 Cu.In. ---- Right side, center, direct to oil pan

OIL PAN CAPACITY (Quarts)
- Refill
  - V8-327 Cu.In. (Base) ---------- 4.0
  - V8-327 Cu.In. (RPO L79) ---------- 5.0
  - V8-427 Cu.In. ---------- 5.0
- Refill with Filter Change
  - V8-327 Cu.In. (Base) ---------- 5.0
  - V8-327 Cu.In. (RPO L79) ---------- 5.0
  - V8-427 Cu.In. ---------- 6.0

OIL FILTER
- Type ---------- Full flow, throwaway canister
- Location ---------- Left rear underside of engine
- Capacity ---------- One quart
- By-pass Valve ---------- Opens between 9 to 11 PSI drop in pressure

LUBRICANT GRADES AND TEMPERATURES
- 32° F and Above ---------- SAE20W or SAE10W-30
- 0° F to 32° F ---------- SAE10W or SAE10W-30
- Below 0° F ---------- SAE5W or SAE5W-20
- Alternate ---------- SAE5W-30 can be used at temperatures below freezing

OIL PAN
- Type of Drain Plug ---------- Hex head
- Location ---------- Lower rear face of oil pan sump
- Size Hex Head ---------- .860-.875
- Thread ---------- 1/2-20 UNF 2A
- Length ---------- .061
- Diameter ---------- .410-.430

GENERAL

Type	Liquid, pressurized
V8-327 Cu.In. (Base)	Internal by-pass
V8-327 Cu.In. (RPO L79)	External by-pass
V8-427 Cu.In.	External by-pass
Capacity (with Heater)	
V8-327 Cu.In.	15 Qts
V8-427 Cu.In.	22 Qts

RADIATOR

Type	
V8-327 Cu.In.	Aluminum, cross-flow
V8-427 Cu.In.	Copper-brass, cross-flow
Core Constant	
Distance between Fins	
V8-327 Cu.In.	.18
V8-427 Cu.In.	.16
Distance between Tubes	.55
Thickness of Core	
V8-327 Cu.In.	2.88
V8-427 Cu.In.	2.70
Frontal Area (Sq. In.)	
V8-327 Cu.In.	315
V8-427 Cu.In.	382

SURGE TANK (327 Cu.In. Only)

Location	Right side engine compartment connected by hosing to top of radiator
Capacity	2.3 Qts
Fill Requirements	Half full when weather is cold

RADIATOR CAP RELIEF VALVE

Opens at	Approximately 15 PSI

FAN

Number of Blades	5, staggered
Diameter	
V8-327 Cu.In.	17.12
V8-427 Cu.In.	17.50
Fan Pulley Pitch Diameter	7.00
Drive	
Type	Thermomodulated fluid coupling
Performance at 4000 RPM Input	At 135°-155°F fan speed 3200 to 3500 RPM; at 120° F and below, fan speed 800-1800 RPM

THERMOSTAT

Type	Pellet
Begins to Open at	192°-198°F
Fully Opened at	217°F

RADIATOR HOSE

Outlet, Lower (Radiator to Water Pump)	
V8-327 Cu.In.	1.75 I.D.
V8-427 Cu.In.	1.88 I.D.
Inlet, Upper (Thermostat Housing to Radiator)	
V8-327 Cu.In.	1.56 I.D.
V8-427 Cu.In.	1.50 I.D.

BY-PASS THERMOSTAT HOSE

V8-327 Cu.In. (RPO L79)	.725-.765 I.D.
V8-427 Cu.In.	.725-.765 I.D.

BELTS; CRANKSHAFT, FAN AND GENERATOR

Number Used	
V8-327 Cu.In. (Base)	One
V8-327 Cu.In. (RPO L79)	Two
V8-427 Cu.In.	Two
Angle of "V"	38°-42°
Pitch Line	
Fan, Generator and Water Pump Belt	
V8-327 Cu.In. (Base)	53.25
V8-327 Cu.In. (RPO L79)	54.00
V8-427 Cu.In.	56.00
Fan and Water Pump Belt	
V8-327 Cu.In. (RPO L79)	34.40
V8-427 Cu.In.	34.40
Width	.380

WATER PUMP

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

DRAIN LOCATIONS AND TYPE

Radiator	Left hand, rear lower face
Engine Block	Plug; right and left center

ELECTRICAL SYSTEM

SUPPLY SYSTEM
BATTERY
Voltage ---------- 12
Cranking Power @ 0° F ---------- 3250 watts
Total Number of Plates ---------- 78
Number of Cells ---------- 6
Terminal Grounded ---------- Negative
Location ---------- In passenger compartment behind driver

GENERATOR
Type ---------- Diode rectified
Rating
Amps ---------- 9-37
Volts ---------- 10-15
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° F
Field Relay (Combination Light & Field Relay)
Closing Voltage ---------- 1-3 Volts @ 80° F
Location ---------- Right side front engine compartment

STARTING SYSTEM
STARTING MOTOR
Rotation (Drive End View) ---------- Clockwise
Test Conditions ---- Engine at operating temperature
No Load Test
Amps ---------- 65-100 (327); 70-99 (427)
Volts ---------- 10.6
RPM ---------- 3600-5100 (327); 7800-12000 (427)
Motor Drive
Engagement ---------- Solenoid
Pinion Meshes at ---------- Rear
Pinion Tooth No. ---------- 9
Flywheel Tooth No. ---------- 153; V8-427 -- 168
Mounting ---------- 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
Make & Type
V8-327 Cu.In. ---------- AC44
V8-427 Cu.In. ---------- AC43N
Thread Size (mm) ---------- 14
Gap ---------- .033-.038
Torque ---------- 25 lb ft

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

DISTRIBUTORS	V-8 327 Cu.In. Base 300 HP	V-8 327 Cu.In. RPO L79 350 HP	V-8 427 Cu.In. RPO L36 390 HP	V-8 427 Cu.In. RPO L68 400 HP	V-8 427 Cu.In. RPO L71 435 HP
Model	1111194	1111438	1111293		1111296
Type	Single Breaker				
Cam Angle	28° - 32°				Transistorized
Breaker Gap	.019 (new)				Magnetic Pulse
Breaker Arm Tension	19 - 23 oz		28 - 32 oz		
Centrifugal Advance Begins (RPM)	900	950	900		900
Max Degrees @ RPM	30 @ 5100	30 @ 4700	32 @ 5000		30 @ 3800
Vacuum Advance Begins (In. Hg)	6.00	6.00	7.00		8.00
Max Degrees @ In. Hg	15 @ 12	15 @ 15.5	12 @ 12		15 @ 15.5
Timing (Initial Design Setting) Crankshaft Degrees @ RPM (with vacuum spark line disconnected)	4 BTC @ 700 manual 600 auto	4 BTC @ 750 manual only	4 BTC @ 700 manual 600 auto	4 BTC @ 750 manual 600 auto	4 BTC @ 750 manual only
Timing Mark Location	Torsional Damper				

CLUTCHES

Engine	Type		V-8 327 Cubic Inch		V-8 427 Cubic Inch	
	Availability		Regular Production	RPO L79	RPO L36 & L68	RPO L72
Clutch for			3-Speed & 4-Speed	4-Speed	4-Speed	
Type			Single dry disc, centrifugal			
Clutch cover & pressure plate	Eff. plate load, lbs.		2100-2300	2300-2600	2450-2750	2600-2800
	Press. plate matl.		Nodular iron			
	Clutch spring type		Circular plate diaphragm, bent finger design			
	Clutch spring matl.		Heat treated spring steel			
Driven plate	Type		Single disc with two friction surfaces			
	Cushions		Flat spring steel between friction rings			
	Dampers		10 coil springs (5 sets of two)			
	Friction rings	OD	10.34		11.00	
		ID	6.50		6.50	
		Total area sq.in.	101.54		123.70	
		Material	Woven type asbestos			
Flywheel	Ring gear	Material	Heat treated HR steel			
		No. of teeth	153		168	
		PD	12.75		14.00	
		Attachment	Shrink fit			
Bearings	Release	Type	Single row ball			
		Lubrication	None, prepacked			
	Pilot	Type	Bronze bushing			
		Lubrication	None, sintered and oil impregnated			
Controls	Clutch fork		Drop forged steel, pivot mounted on ball			
	Pedal mounting		Pendant, from brace on dash			
	Lubrication		Crossover shaft			
Clutch housing material			Aluminum alloy			

3-SPEED AND 4-SPEED TRANSMISSIONS

Transmission Type			3-Speed	4-Speed RPO M20		4-Speed RPO M21	
Engine Application	Type		V8-327 Cu.In.	V8-327 Cu.In.	V8-427 Cu.In.	V8-327 Cu.In.	V8-327 Cu.In.
	Availability		Standard	Standard	RPO L79 L36, L68	RPO L79	L36, L68 & L71
Case material			Cast iron	Aluminum			
Gear Shift	Type		Remote				
	Control		Lever				
	Location		Floor, mounted between seats				
Gears	Type		Helical				
	Material		Forged steel, hardened				
	Synchronization		All forward gears				
	Constant mesh gear		All gears	All forward gears			
	Sliding gears		None	Reverse			
	Ratios	First	2.54	2.52		2.20	
		Second	1.50	1.88		1.64	
		Third	1.00	1.47		1.27	
		Fourth		1.00		1.00	
		Reverse	2.63	2.59		2.26	
Lubricant	Type		Meeting Military Specification MIL-L-2105-B				
	Capacity (pts)		3				
Extension	Material		Cast iron	Aluminum			
	Oil seal		Steel encased double seal of spring loaded rubber or felt				

TURBO HYDRA-MATIC TRANSMISSION (RPO M40)

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 ---------- Floor mounted

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

Quadrant Pattern Six positions: P-R-N-3-2-1

External Control Connections

Manual Linkage ---------- Selects desired operating range by means of selector lever

Vacuum Modulator ---------- Senses change in the torque input to the transmission and assures smooth shifts

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

Parking Lock

Type ---------- Locking pawl

Operation ---------- Applied by selector lever through manual linkage

Method of Cooling ---------- Water

TORQUE CONVERTER

Driving Member (Pump) ---------- Multivane type, 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 ---------- 2.04

Stall Speed (RPM) ---------- 2100

Diameter (Nominal) ---------- 12.83

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

"3" ---------- 2.48:1, 1.48:1, 1.00:1

"2" ---------- 2.48:1, 1.48:1

"1" ---------- 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 "2" and "1" 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

"3" e (First, second, third) ---------- 70 PSI

"2" (First, second) ---------- 150 PSI

"1" ---------- 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 pts

Refill ---------- 8 pts

Oil cooler ---------- Integral with radiator assembly and connected to transmission by inlet and outlet pipes

TORQUE MULTIPLICATION

"3" (maximum) ----------	5.06:1 to 1.00
"2" ----------	5.06:1 to 1.48
"1" ----------	5.06:1 to 2.48
Reverse ----------	4.24:1 to 2.08

AMA–40A

AMA Specifications—Passenger Car

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

MANUFACTURER	CAR NAME	
Chevrolet Motor Division Owner Relations Department	CORVETTE	
MAILING ADDRESS 1077 Argenaut "A" G.M. Bldg. Detroit, Michigan 48202	MODEL YEAR 1968	ISSUED: 10-15-67 REVISED (•)

NOTES:
1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufactur
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

BODY – TYPES AND STYLE NAMES –

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

	327 Cu.In.		427 Cu.In.		
	V8-300HP Standard	V8-350 HP Opt(L79)	V8-390HP Opt(L79)	V8-400HP Opt(L68)	V8-43[illegible] Opt([illegible]71
2-Door Sport Coupe, 2-Pass.		19437			
2-Door Convertible, 2-Pass.		19467			

AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	
			SOFT TOP	HARDTOP
WIDTH				
Track – Front	W101	58.3		
Track – Rear	W102	59.0		
Maximum overall car width	W103	69.2		
Body width at No. 2 pillar	W117			
LENGTH				
Body "O" to front of dash	L 30			
Wheelbase	L101	98.0		
Overall car length	L103	182.1		
Overhang – front	L104	40.2		
Overhang – rear	L105	43.9		
Body upper structure length	L123	54.7		
Body "O" line to ℄ of rear wheel	L127	72.0		
Body "O" line to w/s cowl point	L130	11.6		
HEIGHT				
Overall height	H101	47.8		
Cowl height	H114	26.6		
Deck height	H138			
Rocker panel – front: To ground	H112	7.6		
Rocker panel – front: From front wheel ℄	H112			
Rocker panel – rear: To ground	H111	7.6		
Rocker panel – rear: From rear wheel ℄	H111			
Windshield slope angle	H122	57		
GROUND CLEARANCE				
Bumper to ground – front	H102	9.2		
Bumper to ground – rear	H104	12.3		
Angle of approach	H106	22		
Angle of departure	H107	21		
Ramp breakover angle	H147	22		
Min. running clearance (Specify)	H156	4.9 (Exhaust to ground)		

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (•)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	
			SOFT TOP	HARDTOP
FRONT COMPARTMENT				
Effective head room	H61	36.2	37.1	36.0
Max. eff. leg room – accelerator	L34	43.0		
H Point to Heel point	H30	6.5		
H Point travel	L17	4.5		
Shoulder room	W 3	46.9		
Hip room	W 5	48.8		
Upper body opening to ground	H50	43.6		
REAR COMPARTMENT				
H Point couple distance	L50	--		
Effective head room	H63	--		
Min. effective leg room	L51	--		
H Point to Heel point	H31	--		
Min. knee room	L48	--		
Rear Compartment room	L 3	--		
Shoulder room	W 4	--		
Hip room	W 6	--		
Upper body opening to ground	H51	--		
LUGGAGE COMPARTMENT				
Usable luggage capacity	V 1			
Liftover height	H195			
Position of spare tire storage				
Method of holding lid open				
STATION WAGON – THIRD SEAT				
Shoulder Room	W85			
Hip room	W86			
Effective leg room	L86	NOT AVAILABLE		
Effective head room	H86			
Seat facing direction				
STATION WAGON – CARGO SPACE				
Cargo length at floor – front seat	L202			
Cargo length at belt – front seat	L204			
Cargo width – wheelbase	W201			
Opening width at belt	W204	NOT AVAILABLE		
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2			

AMA Specifications—Passenger Car

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO ** (Std. first) (Indicate A/C ratio) *			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM			A	B	C	D
ALL MODELS	327 Std.	One; 4-Bbl	10.0:1	300 @ 5000	360 @ 3400	3-Speed (2.54:1 low) & 4-Speed* (2.52:1 low)	Base	3.36	3.08	--	--
							A/C	3.36	3.08		
						Turbo * Hyd-Mtc.	Base	3.08	--	--	--
							A/C	3.08	--	--	--
	327 Opt. (L79)	One; 4-Bbl	11.0:1	350 @ 5800	360 @ 3600	4-Speed* (2.52:1 low)	Base	3.36	--	3.55	--
							A/C	3.36	--	3.55	--
						4-Speed* (2.20:1 low)	Base	3.70	--	4.11	--
							A/C	3.70	--	4.11	--
	427 Opt. (L36)	One; 4-Bbl	10.25:1	390 @ 5400	460 @ 3600	4-Speed* (2.52:1 low)	Base	3.08	--	3.36	
							A/C	3.08	--	3.36	--
						4-Speed* (2.20:1 low)	Base	3.36	3.08	3.55	3.70
							A/C	3.36	3.08	3.55	3.70
						Turbo * Hyd-Mtc	Base	3.08	2.73	--	--
							A/C	3.08	2.73	--	--
	427 Opt. (L68)	Three; 2-Bbl	10.25:1	400 @ 5400	460 @ 3600	4-Speed* (2.52:1 low)	Base	3.08	--	3.36	--
							A/C	3.08	--	3.36	--
						4-Speed* (2.20:1 low)	Base	3.36	3.08	3.55	3.70
							A/C	3.36	3.08	3.55	3.70
						Turbo * Hyd-Mtc	Base	3.08	2.73	--	--
							A/C	3.08	2.73	--	--
	427 Opt. (L71)	Three 2-Bbl	11.0:1	435 @ 5800	460 @ 4000	4-Speed* (2.20:1 low)	Base	3.55	3.36	3.70	4.11
							A/C	Not available			

A-Standard
B-Economy
C-Performance
D-Special Purpose
*-Optional
** -Positraction axles available optionally for 327 Cu. In. 3-Speed & 4-Speed combinations. All other engine-transmission. axle combinations are available as positraction only.

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (•)

MODEL 19400

ENGINE – GENERAL

		327 Cu. In. V-8		427 Cu. In. V-8		
		300 HP Standard	350 HP Opt. (L79)	390 HP Opt(L36)	400 HP Opt. (L68)	435 HP Opt. (L
Type, no. cyls., valve arr.		90° OHV V-8				
Bore and stroke (nominal)		4.00 x 3.25		4.25 x 3.76		
Piston displacement, cu. in.		327		427		
Bore spacing (℄ to ℄)		4.4		4.84		
No. system (front to rear)	L. Bank	1-3-5-7				
	R. Bank	2-4-6-8				
Firing order		1-8-4-3-6-5-7-2				
Compres. ratio (nominal)		10.0:1	11.0:1	10.25:1		11.0:1
Cylinder Head Material		Cast alloy iron				
Cylinder Block Material		Cast alloy iron				
Cyl. Sleeve-Wet, dry, none		None				
Number of mtg. points	Front	Two				
	Rear	One				
Engine installation angle		3°				
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		51.2		57.8		
Publishing max. bhp* @ eng. RPM		300 @ 5000	350 @ 5800	390 @ 5400	400 @ 5400	435 @ 5
Publishing max. torque * (lb. ft. @ RPM)		360 @ 3400	360 @ 3600	460 @ 3600	460 @ 3600	460 @ 4
Recommended fuel regular – premium						

ENGINE – PISTONS

Material			Cst. al. alloy	(a)	Cast aluminum alloy	(a)
Description and finish			Flat notched head	Domed head, valve cutout		
Weight (piston only) oz.			21.60	20.64	28.00	24.67
Clearance (limits)	Top land		.0365 - .0455		.0305 - .0375	.0265 -
	Skirt	Top	.0005-.0011(b)	.0024-.0030(c)	.0012 - .0018(d)	.0040 -
		Bottom	•			
Ring groove depth	No. 1 ring		.2217 - .2283		.2348 - .2413	
	No. 2 ring		.2217 - .2283		.2348 - .2413	
	No. 3 ring		.2038 - .2103		.2183 - .2248	.2133 -
	No. 4 ring		None			

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

(a) Aluminum impact extruded
(b) Measured 2.24 from top of piston
(c) Measured 2.20 from top of piston
(d) Measured 1.91 from top of piston
(e) Measured 2.07 from top of piston

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

MODEL 19400

		327 Cu. In. V-8		427 Cu. In. V-8	
		300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L
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 - material, coating, etc. Upper	Cast alloy iron; bbl.face; chrome plate on L30, Moly inlay on rema/				
	Lower	Cast alloy iron; chrome plate on L79 & L71, wear resistant ctng. o/				
	Width	(a)	(b)	.0770-.0775		/remai
	Gap	(c)		.010-.020		
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD Expander-stainless steel				
	Width	.1870-.1890 (assembled)				
	Gap	.015-.055		.010-.030		
Expanders		In oil ring assembly				
ENGINE – PISTON PINS						
Material		Chromium steel				
Length		2.990-3.010		2.930-2.950		
Diameter		.9270-.9273		.9895-.9898		
Type	Locked in rod, in piston, floating, etc.	Locked in rod				
	Bushing - In rod or piston	None				
	Bushing - Material	--				
Clearance	In piston	.00015-.00025	.00045-.00055	.00025-.00035		.00030-.00
	In rod	None				
Direction & amount offset in piston		(d)	On center	(d)		On cente
ENGINE – CONNECTING RODS						
Material		Drop forged steel				High alloy ste
Weight (oz.)				27.84		27.84
Length (center to center)		5.699-5.701		6.130-6.140		
Bearing	Material & Type	Premium aluminum				
	Overall length	.797		.857		
	Clearance (limits)	.0007-.0027		.0009-.0029		.0014-.00
	End play	.009-.013		.016-.020		

(a) Upper .0775-.0780; lower .0770-.0775
(b) Upper .0770-.0775; lower .0775-.0780
(c) Upper .010-.020; lower .013-.025
(d) Major thrust side .055-.065

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MODEL 19400	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	425 HP Opt. (L7
ENGINE – CRANKSHAFT					
Material	Cast nodular iron		Forged steel		
Vibration damper type	Rubber mounted inertia				
End thrust taken by bearing (No.)	Five				
Crankshaft end play	.002 - .006		.006 - .010		
Main bearing — Material & type	Premium aluminum except No. 5 is sintered copper nickel backed babbitt				
Main bearing — Clearance	(a)		(b)		(c)
Main bearing — Journal dia. and bearing overall length — No. 1	2.4502 x .752		2.7507 x .992		2.7505 x .9
Main bearing — Journal dia. and bearing overall length — No. 2	2.4505 x .752		2.7507 x .992		2.7505 x .9
Main bearing — Journal dia. and bearing overall length — No. 3	2.4505 x .752		2.7505 x .992		2.7505 x .9
Main bearing — Journal dia. and bearing overall length — No. 4	2.4505 x .752		2.7505 x .992		2.7505 x .9
Main bearing — Journal dia. and bearing overall length — No. 5	2.4507 x 1.177		2.7506 x 1.2525		2.7506 x 1.25
Main bearing — Journal dia. and bearing overall length — No. 6	None				
Main bearing — Journal dia. and bearing overall length — No. 7	None				
Main bearing — Dir. & amt. cyl. offset	None				
Crankpin journal diameter	2.099 - 2.100		2.199 - 2.200		
ENGINE – CAMSHAFT					
Location	In block above crankshaft				
Material	Cast alloy iron				
Bearings — Material	Steel backed babbitt				
Bearings — Number	5				
Type of Drive — Gear or chain	Chain				
Type of Drive — Crankshaft gear or sprocket material	Steel sprocket				
Type of Drive — Camshaft gear or sprocket material	Cast alloy iron		Cast aluminum		
Type of Drive — Timing chain — No. of links	46		50		
Type of Drive — Timing chain — Width	.740		.740		
Type of Drive — Timing chain — Pitch	.500		.500		
ENGINE – VALVE SYSTEM					
Hydraulic lifters (Std., opt., NA)	Standard				N.A.
Valve rotator, type (intake, exhaust)	None				
Rocker ratio	1.50:1		1.70:1		
Operating tappet clearance (indicate hot or cold) — Intake	Zero				.024
Operating tappet clearance (indicate hot or cold) — Exhaust	Zero				.028

(Continued)

(a) No. 1, .0008 - .0020; No. 2, 3, & 4, .0008 - .0024; No. 5, .0015 - .0031
(b) No. 1 & 2, .0010 - .0020; No. 3 & 4, .0013 - .0025; No. 5, .0015 - .0031
(c) No. 1, 2, 3 & 4, .0013 - .0025: No. 5, .0015 - .0031

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MODEL 19400

			327 Cu. In. V-8		427 Cu. In. V-8		
			300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71
ENGINE – VALVE SYSTEM (cont.)							
Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°	40°	40°		44°
		Closes (°ABC)	72°	86°	80°		97°
		Duration - deg.	280°	306°	300°		316°
	Exhaust	Opens (°BBC)	78°	88°	88°		86°
		Closes (°ATC)	30°	38°	32°		36°
		Duration - deg.	288°	306°	300°		302°
	Valve opening overlap		58°	78°	72°		80°
Intake	Material		Alloy steel; aluminized face; also chrome flash stem on L71 & L79				
	Overall length		4.870 - 4.889		5.215 - 5.235		5.204-5.224
	Actual overall head dia.		1.935-1.945	2.017-2.023	2.060 - 2.070		2.185-2.195
	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	.4472	.4614		.5197
	Outer spring press. & length	Valve closed (lb.@in.)	76-84 @ 1.70		94-106 @ 1.88		
		Valve open (lb.@in.)	194-206 @ 1.25		303-327 @ 1.38		
	Inner spring press. & length	Valve closed (lb.@in.)	Spring damper				
		Valve open (lb.@in.)	Spring damper				
Exhaust	Material		High alloy steel; aluminized face; also chrome flash stem on L71 /& L79				
	Overall length		4.913-4.933	4.891-4.910	5.345-5.365		
	Actual overall head dia.		1.495-1.505	1.595-1.605	1.715-1.725		
	Angle of seat & face		46° (seat) 45° (face)				
	Seat insert material		None				
	Stem diameter		.3410-.3417		.3713-.3720		
	Stem to guide clearance		.0010-.0027		.0015-.0032		
	Lift (@ zero lash)		.4100	.4472	.4800		.5197
	Outer spring press. & length	Valve closed (lb.@in.)	76-84 @ 1.70		94-106 @ 1.88		
		Valve open (lb.@in.)	194-206 @ 1.25		303-327 @ 1.38		
	Inner spring press. & length	Valve closed (lb.@in.)	Spring damper				
		Valve open (lb.@in.)	Spring damper				

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from front camshaft bearing
	Cylinder walls	Pressure; jet cross sprayed

(Continued)

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MODEL 19400

	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 Opt.

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear		
Normal oil pressure (lb. engine rpm) (A)	30-45 PSI @ 1500	50-75 PSI @ 2000	
Oil press. sending unit (elect. or mech.)	Electric		
Type oil intake (floating, stationary)	Stationary		
Oil filter system (full flow, part., other)	Full flow		
Filter replacement (element, complete)	Element		
Capacity of c/case, less filter-refill (qt.)	4	5	
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 f		
Engine Service Reqmt. (MM, MS, etc.)	MS or DG		

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual	
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two, reverse flow	
Exhaust pipe dia. (O.D., wall thick.) Branch	2.50 x .072-.092	
Exhaust pipe dia. (O.D., wall thick.) Main	2.50 x .084-.104 (laminated)	
Tail pipe dia. (O.D. & wall thickness)	2.62 x .062-.072	

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction system	
	Optional		
Control Unit	Make and model	AC Spark Plug 6424251 (327 cu.in); 6424250 (396 & 427 c	
	Location	Left front of rocker cover	
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
	Control method (variable orifice, fixed orifice, other)	Variable orifice	
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner	
	Flame arrestor (screen, check valve, other)	Screen	

A-Bench test - no flow conditions

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MODEL 19400

ENGINE – EXHAUST EMISSION CONTROL

			327 Cu. In. V-8			427 Cu. In. V-8				
			300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)		400 HP Opt. (L68)		435 HP Opt. (L71)	
			Man. Auto.	Manual	Man.	Auto.	Man.	Auto.	Manual	
Type (Air injection, engine modifications, other)			MANUAL TRANSMISSION - Air injection reactor equipment AUTOMATIC TRANSMISSION- Controlled combustion system							
Air Injection Pump *	Type		Semi-articulated vane type							
	Displacement		19.3							
	Drive ratio		1.15:1							
	Drive type		Crankshaft pulley							
	Relief valve (type)		Diverter valve		Pressure (plate type)					
	Filter (describe)		Centrifugal 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)		Diverter valve							
Carburetor	Make		Rochester							
	Model		(a)	(b)	7028209	(c)	(d)	(e)	(f)	(c)
	Barrel size									
	Idle speed	Drive	-	600	-	-	600	-	600	-
		Neutral	700	-	750	700	-	750	-	750
	Idle A/F mixture		Not specified							
Distributor	Aux. Adv. Systems (type)		None							
	Make		Delco-Remy							
	Model		1111194	1111438	1111293					1111296
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	900	950	900					900
		Intermed. points deg. @ rpm	15@1500	20@1800	17@2000					None
		Max. deg. @ rpm	30@5100	30@4700	32@5000					30@3800
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	6.00	6.00	7.00					8.00
		Intermed. points deg. @ in. Hg	None							
		Max. deg. @ in.	15 @ 12	15 @ 15.5	12 @ 12					15 @ 15.5
	Vacuum Source		Carburetor							
Timing - Crank degrees @ rpm			4BTC at idle							
Cooling System (describe changes)			None							
Exhaust System (describe changes)			None							

* - Used with manual transmissions only.

(a) 7028207 (c) 7028209 (e) 3925517 Primary; 3902353 Secondary

(b) 7028208 (d) 7028216 (f) 3925516 Primary; 3902353 Secondary

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MODEL 19400

	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 H Opt. (L

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 (U.S. gals.)		20 (approximately)				
	Filler location		Center at rear deck				
Fuel Pump	Type (elec. or mech.)		Mechanical				
	Locations		Lower right front of engine				
	Pressure range		5.00 - 6.50 PSI				
Vacuum booster (std., optional, none)			None				
Fuel Filter	Type		Fine mesh plastic strainer in gas tank and paper filter in carburetor inlet				
	Locations						
Carburetor	Choke type		Automatic				
	Intake manifold heat control (exhaust or water)		Exhaust				
	Air cleaner type	Standard	Oil-wetted paper element			Polyurethane	
		Optional					
	Idle speed (spec. neutral or drive)	Manual	700	750	700	750	
		Automatic	600	NA	600	600	NA
		Idle A/F mix.					

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
19400	327 300 hp	3-spd & 4-spd	Rochester	7028207	One; 4-Bbl down-draft	1.38 (prim
		Turb Hyd-Mtc.	Rochester	7028208		2.25 (secon
	327 350 hp	4-Speed	Rochester	7028219		
	427 390 hp	4-Speed	Rochester	7028209		
		Turb Hyd-Mtc.	Rochester	7028216		
	427 400 hp	4-Speed	Holley	3925517 (primary) 3902353 (secondary)	Three; 2-Bbl (1-prim) (2-sec)	1.50 (prim
		Turbo Hydra-Matic	Holley	3925516 (primary) 3902353 (secondary)		1.75 (seco
	427 435 hp	4-Speed	Holley	3925517 (primary) 3902353 (secondary)		

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MODEL 19400

	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71)

ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure with surge tank		Pressure		
Radiator cap relief valve pressure			15 ± 1 PSI				
Circulation thermostat	Type (choke, bypass)		Choke				
	Starts to open at (•F)		192°-198°				
Water pump	Type (centrifugal, other)		Centrifugal				
	GPM @ 1000 pump rpm		57 @ 4400		82 @ 5200		
	Number of pumps		One				
	Drive (V-belt, other)		V-Belt				
	Bearing type		Double row ball				
By-pass recirculation type (inter., ext.)			Internal	External			
Radiator core type (cellular, tube and fin, other)			Cross flow				
Cooling system capacity	With heater (qt.)		15		22		
	Without heater (qt.)		14		21		
	Opt. equipment-specify (qt.)						
Water jackets full length of cyl. (yes, no)			Yes				
Water all around cylinder (yes, no)			Yes				
Radiator hose	Lower	Number and type (molded, straight)	One, molded				
		Inside diameter	1.75		1.88		
	Upper	Number and type (molded, straight)	One, molded				
		Inside diameter	1.50				
	By-pass	Number and type (molded, straight)	None	One, molded			
		Inside diameter	None	.725-.765			
Fan	Number of blades & spacing		5-staggered				
	Diameter		17.50				
	Ratio-fan to crankshaft rev.		.949:1				
	Fan cutout type		Thermo-modulated-viscous coupling				
	Bearing type		Double row ball				
*Drive belts (indicate belt used by letter)	Fan		A	EF	JF		
	Generator or alternator		A	E	J		
	Water Pump		A	EF	JF		
	Power Steering		B	G	G	G	NA
	Air Conditioning		C	H	K	K	NA
	Air Injection Pump		D	I	I	I	I

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	←				38° — 42°						→
Nominal length (SAE)	53.25	36.25	57.50	34.00	54.00	34.40	45.00	56.75	33.50	56.00	45.75
Width	←				.380						→

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MODEL 19400	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980087			
	Voltage Rtg. & Total Plates		12 volt-78 plate			
	SAE Designation & Amp. Hr. Rtg.		62 amp/hr @ 20 hr. rate			
	Location		Behind driver seat in stowage compartment			
	Terminal grounded		Negative			
Generator or Alternator	Make		Delco-Remy			
	Model		1100696			
	Type and rating		Diode rectified 9-37 amps.			
	Output at engine idle (neutral)		13 amps	22 amps	16 amps	24 amp
	Ratio-Gen. to Cr/s rev.		2.46:1			
Regulator	Make		Delco-Remy			
	Model		1119515			
	Type		Vibrator			
	Cutout relay	Closing voltage & generator rpm	None			
		Reverse current to open	None			
	Regulated	Voltage	13.8-14.8 @ 85° F			
		Current	- - -			
	Voltage test conditions	Temperature	Operating			
		Load	3-8 amperes			
		Other	None			

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy			
	Model		1108361		1107365	
	Rotation (drive end view)		Clockwise			
Motor control	Switch (solenoid, manual)		Solenoid			
	Starting procedure		3-Spd & 4-Spd-Place gearshift lever in neutral and depr AUTOMATIC-Place control lever in "N" or "P" position /c INITIAL START-Press accelerator to floor and release. ignition to START, release as soon as engine starts.			
Motor Drive	Engagement type		Position shift solenoid			
	Pinion meshes (front, rear)		Rear			
	Number of teeth	Pinion	9			
		Flywheel Manual	153		168	
		Flywheel Auto.	153	NA	168	NA
	Flywheel tooth face width	Manual	.4010-.4130		.4100-.4220	
		Auto.	.4010-.4130	NA	.4100-.4220	NA

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MODEL 19400

			327 Cu. In. V-8		427 Cu. In. V-8		
			300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L7
ELECTRICAL – IGNITION SYSTEM							
Type	Conventional – Std., Opt., N.A.		Standard				NA
	Transistorized – Std., Opt., N.A.		NA	Optional			Standard
	Other (specify)		None				
Coil	Make						
	Model		1115270		1115287		
	Amps	Engine stopped	4.0				
		Engine idling	1.8				
Distributor	Make		Delco-Remy				
	Model		1111194	1111438	1111293		1111296
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	900	950	900		900
		Intermediate points deg. @ rpm	15@1500	20@1800	17@2000		None
		Max. deg. @ rpm	30@5100	30@4700	32@5000		30@5800
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6.00	6.00	7.00		8.00
		Intermediate points, deg. @ in. Hg.					
		Max. deg. in. Hg.	15 @ 12	15 @ 15.5	12 @ 12		15 @ 15.
	Breaker gap (in.)		.019				Magnet/c
	Cam angle (deg.)		28-32				Pulse
	Breaker arm tension (oz.)		19-23		28-32		amplifie
Timing	Crankshaft deg. @ rpm		4BTC at idle				
	Mark location		Torsional damper				
Spark Plug	Make		AC Spark Plug				
	Model		AC44		AC43N		
	Thread (mm)		14				
	Tightening torque (lb. ft.)		25				
	Gap		.033-.038				
Cable	Conductor type		Linen core impregnated with electrical conducting				
	Insulation type		Rubber with neoprene jacket				
	Spark plug protector		Hypalon jacket				

ELECTRICAL – SUPPRESSION

Locations & type	Non-metallic, high tension ignition

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MODEL 19400	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial
	Trip odometer (yes,no)	Yes
Charge indicator – type		Ammeter
Temperature indicator – type		Electric gauge
Oil pressure indicator – type		Bourdon tube gauge
Fuel indicator – type		Electric gauge
Other		Mechanical tachometer
Windshield wiper	Type – Standard	Electric two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(low note) 4.5-6.5 @ 12.5V. (Hi note) 4.2-6 @ 12.5V.

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		3 & 4-Spd	4-Speed		
		Chevrolet, single dry disc, semi-centrifugal			
Type pressure plate springs		Circular plate diaphragm, bent finger design			
Total spring load (lb.)		2100-2300	2300-2600	2450-2750	2600-2800
No. of clutch driven discs		One			
Clutch facing	Material	Premium grade woven type asbestos			
	Outside & inside dia.	10.34 & 6.50		11.00 & 6.50	
	Total eff. area (sq.in.)	101.54		123.70	
	Thickness	.135 each			
	Engagement cushioning method	Flat spring steel between cushions			
Release bearing	Type & method of lubrication	Single row ball, packed and sealed			
Torsional damping	Methods: springs, friction material	Coil springs			

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MODEL	327 Cu.In. V-8		427 Cu.In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71)

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard available with 327 Cu.In. 300 HP only
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Turbo Hydra-Matic optional with 300 HP (std) 390 HP (L3 & 400 HP (L68) only

DRIVE UNITS – MANUAL TRANS.

			3-Speed(a)	4-Speed(b)	4-Speed(c)
Number of forward speeds			3	4	4
Transmission ratios	In first		2.54:1	2.52:1	2.20:1
	In second		1.50:1	1.88:1	1.64:1
	In third		1.00:1	1.47:1	1.27:1
	In fourth		--	1.00:1	1.00:1
	In reverse		2.63:1	2.59:1	2.26:1
Synchronous meshing, specify gears			All forward gears		
Shift lever location			Floor mounted		
Lubricant	Capacity (pt.)		3		
	Type recommended		Meeting Military specs. MIL-L-2105B		
	SAE viscosity number	Summer	SAE 80		
		Winter	SAE 80		
		Extreme cold	SAE 80		

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

(a) Available with 327 Cu.In. 300 HP (Std.) only
(b) Available with all engine combinations except 427 Cu.In. 435 HP (L71)
(c) Available with all engine combinations except 327 Cu.In. 300 HP (Std.)

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MODEL 19400	327 Cu.In.	427 Cu.In.

DRIVE UNITS – AUTOMATIC TRANSMISSION

Available with 327 Cu.In. 300 HP (Std.) & 427 Cu.In. 390 HP (L36) & 400 HP (L68) only

Trade name		Turbo Hydra-Matic	
Type describe		Torque converter with planetary gears	
Selector location		Lever (floor mounted)	
List gear ratios Selector Pattern and indicate which are used in each selector position		P - Park R - 2.08 N - Neutral D - 2.48-1.48-1.00 L_2 - 2.48-1.48 L_1 - 2.48	
Max. upshift speed–drive range		51(1-2); 95(2-3)	51(1-2); 90(2-3)
Max. kickdown speed–drive range		44(2-1); 88(3-2)	40(2-1); 84(3-2)
Torque convertor	Number of elements	3	
	Max. ratio at stall	2.30	2.04
	Type of cooling (air, liquid)	Water	
	Nominal diameter	12.20	
Lubricant	Capacity–refill (pt.)	8	
	Type recommended	A suffix A	
Special transmission features			

DRIVE UNITS – PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube
Outer diam. x length* x wall thickness	Manual 3-speed trans.	2.00 x 29.90 x .095
	Manual 4-speed trans.	2.00 x 29.90 x .095
	Overdrive transmission	Not available
	Automatic transmission	2.00 x 29.50 x .095

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

(Continued)

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MODEL

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		- - -
Slip Yoke	Type		Yoke
	Number of teeth		27
	Spline O.D.		1.1750
Universal joints	Make and Mfg. No.		Chevrolet, 3868728
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		V-Belt
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube or arms, springs)			Torque control arms
Torque taken through (torque tube or arms, springs)			Torque control arms

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-floating, overhung pinion gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.5
No. of differential pinions			2
Pinion adjustment (shim, other)			None
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Taper roller
Lubricant	Capacity (pt.)		3.7
	Type recommended		Meeting Military Specs MIL-L-2105-B
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.73	3.08	3.36	3.55	3.70	4.11
No. of teeth	Pinion	15	12	11	9	10	9
	Ring gear	41	37	37	32	37	37
Ring Gear O.D.		8.375					

AMA Specifications—Passenger Car

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

MANUFACTURER: Chevrolet Motor Division General Motors Corporation	CAR NAME: CORVETTE	
MAILING ADDRESS: [redacted]	MODEL YEAR: 1968	ISSUED: 10-15-67 REVISED (e)

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

BODY – TYPES AND STYLE NAMES – Body type, number of passenger & style names; use manufacturer's code for series & body style.

	427 Cu. In. V-8 430 HP Opt (L88)
2-Door Sport Coupe, 2-Pass.	19437
2-Door Convertible, 2-Pass.	19467

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE SOFT TOP	CONVERTIBLE HARDTOP
WIDTH				
Track – Front	W101		58.3	
Track – Rear	W102		59.0	
...mum overall car width	W103		69.2	
...idth at No. 2 pillar	W117			
...GTH				
Body "O" to front of dash	L 30			
Wheelbase	L101		98.0	
Overall car length	L103		182.1	
Overhang – front	L104		40.2	
Overhang – rear	L105		43.9	
Body upper structure length	L123	54.7		
Body "O" line to ℄ of rear wheel	L127		72.0	
Body "O" line to w/s cowl point	L130		11.6	
...GHT				
Overall height	H101	47.8		
Cowl height	H114		26.6	
Deck height	H138			
Rocker panel – front: To ground	H112		7.6	
Rocker panel – front: From front wheel ℄	H112			
Rocker panel – rear: To ground	H111		7.6	
Rocker panel – rear: From rear wheel ℄	H111			
Windshield slope angle	H122		57	
GROUND CLEARANCE				
Bumper to ground – front	H102		9.2	
Bumper to ground – rear	H104		12.3	
Angle of approach	H106		22	
Angle of departure	H107		21	
Ramp breakover angle	H147		22	
Min. running clearance (Specify)	H156		4.9 (Exhaust to ground)	

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE SOFT TOP	CONVERTIBLE HARDTOP
FRONT COMPARTMENT				
Effective head room	H61	36.2	37.1	36.0
Max. eff. leg room – accelerator	L34	43.0		
H Point to Heel point	H30	6.5		
H Point travel	L17	4.5		
Shoulder room	W 3	46.9		
Hip room	W 5	48.8		
Upper body opening to ground	H50	43.6		
REAR COMPARTMENT				
H Point couple distance	L50	--		
Effective head room	H63	--		
Min. effective leg room	L51	--		
H Point to Heel point	H31	--		
Min. knee room	L48	--		
Rear Compartment room	L 3	--		
oulder room	W 4	--		
Hip room	W 6	--		
Upper body opening to ground	H51	--		
LUGGAGE COMPARTMENT				
Usable luggage capacity	V 1			
Liftover height	H195			
Position of spare tire storage				
Method of holding lid open				
STATION WAGON – THIRD SEAT				
Shoulder Room	W85			
Hip room	W86			
Effective leg room	L86	NOT AVAILABLE		
Effective head room	H86			
Seat facing direction				
STATION WAGON – CARGO SPACE				
Cargo length at floor – front seat	L202			
Cargo length at belt – front seat	L204			
Cargo width – wheelbase	W201			
Opening width at belt	W204	NOT AVAILABLE		
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2			

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	A	B	C	D
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		AXLE RATIO * (Std. first) (Indicate A C ratio)			
19400	427 430 HP	4-bbl	12.5:1	430 @ 4600	485 @ 4000	4-Speed * (2.20:1 low)	3.36	3.08	3.55	3.70 4.11 4.56

A-Standard
B-Economy-Optional
C-Performance-Optional
D-Special Purpose-Optional

*-All engine-axle combinations are available as positraction only.

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MODEL 19400

427 Cu. In. V-8
430 HP Opt. (L88)

ENGINE – GENERAL

Type, no. cyls., valve arr.		90° OHV V-8
Bore and stroke (nominal)		4.25 x 3.76
Piston displacement, cu. in.		427
Bore spacing (℄ to ℄)		4.84
No. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
·res. ratio (nominal)		12.5:1
·r Head Material		Aluminum alloy
Block Material		Cast alloy iron
·eeve-Wet,dry,none		None
Number of mtg. points	Front	Two
	Rear	One
Engine installation angle		3°
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		57.8
Publishing max. bhp* @ eng. RPM		430 @ 4600
Publishing max. torque * (lb. ft. @ RPM)		485 @ 4000
commended fuel ·egular – premium		Premium

ENGINE – PISTONS

Material			Aluminum impact extruded
Description and finish			Domed head, valve cutout
Weight (piston only) oz.			28.99
Clearance ·mits)	Top land		.0316-.0384
	Skirt	Top	.0058-.0066 (a)
		Bottom	--
Ring groove depth	No. 1 ring		.2373-.2437
	No. 2 ring		.2373-.2437
	No. 3 ring		.2158-.2173
	No. 4 ring		None

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

(a) Measured 2.20 from top of piston

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL 19400	427 Cu. In. V-8 430 HP Opt. (L88)

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 - material, coating, etc.	Cast alloy iron; barrel face; no bevel; molybdenum inlay
	Width	.0620-.0625
	Gap	.015-.025
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD Expander - stainless steel
	Width	.1870-.1890
	Gap	.010-.030
Expanders		In oil ring assembly

ENGINE – PISTON PINS

Material			Chromium Steel
Length			2.930-2.905
Diameter			.9895-.9898
Type	Locked in rod, in piston, floating, etc.		Locked in rod
	Bushing	In rod or piston	None
		Material	
Clearance	In piston		.00030-.00040
	In rod		None
Direction & amount offset in piston			On center

ENGINE – CONNECTING RODS

Material		High alloy steel
Weight (oz.)		27.84
Length (center to center)		6.130-6.140
Bearing	Material & Type	Premium aluminum
	Overall length	.857
	Clearance (limits)	.0014-.0034
	End play	.016-.020

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MODEL 19400

427 Cu. In. V-8
430 HP Opt. (L88)

ENGINE – CRANKSHAFT

Material			Forged steel
Vibration damper type			Rubber mounted inertia
End thrust taken by bearing (No.)			Five
Crankshaft end play			.006-.010
Main bearing	Material & type		Premium aluminum except No. 5 is sintered copper nickel backed babbitt.
	Clearance		#1, 2, 3, & 4 - (.0013-.0025): #5 - (.0015-.0031)
	Journal dia. and bearing overall length	No. 1	2.7510 x .992
		No. 2	2.7510 x .992
		No. 3	2.7505 x .992
		No. 4	2.7505 x .992
		No. 5	2.7506 x 1.2525
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.199- 2.200

ENGINE – CAMSHAFT

Location			In block above crankshaft
Material			Cast alloy iron
Bearings	Material		Steel backed babbitt
	Number		Five
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Steel sprocket
	Camshaft gear or sprocket material		Cast aluminum
	Timing chain	No. of links	50
		Width	.880
		Pitch	.550

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Not available
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.70:1
Operating tappet clearance (indicate hot or cold)	Intake	.024
	Exhaust	.028

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MODEL 19400

427 Cu. In. V-8
430 HP Opt. (L88)

ENGINE – VALVE SYSTEM (cont.)

SEE SHOWMAN FOR GIFT 6 — Intake – .3296" Exhaust – .3412" ± .002

Timing (based on top of ramp points)	Intake	Opens (°BTC)	62°
		Closes (°ABC)	105°
		Duration - deg.	347°
	Exhaust	Opens (°BBC)	110°
		Closes (°ATC)	74°
		Duration - deg.	364°
	Valve opening overlap		136°
Intake	Material		Alloy steel; aluminized face and chrome flash stem
	Overall length		5.204-5.224
	Actual overall head dia.		2.185-2.195
	Angle of seat & face		46° (seat) 45° (face)
	Seat insert material		Nickel Moly Alloy
	Stem diameter		.3715-.3722
	Stem to guide clearance		.0010-.0027
	Lift (@ zero lash)		.5586
	Outer spring press. & length	Valve closed (lb. @ in.)	69-81 @ 1.88
		Valve open (lb. @ in.)	181-205 @ 1.32
	Inner spring press. & length	Valve closed (lb. @ in.)	37-45 @ 1.78
		Valve open (lb. @ in.)	92-110 @ 1.22
Exhaust	Material		High alloy steel: aluminized face
	Overall length		5.345-5.365
	Actual overall head dia.		1.835-1.845
	Angle of seat & face		46° (seat) 45° (face)
	Seat insert material		Nickel Moly Alloy
	Stem diameter		.3713-.3720
	Stem to guide clearance		.0015-.0032
	Lift (@ zero lash)		.5800
	Outer spring press. & length	Valve closed (lb. @ in.)	69-81 @ 1.88
		Valve open (lb. @ in.)	181-205 @ 1.32
	Inner spring press. & length	Valve closed (lb. @ in.)	37-45 @ 1.78
		Valve open (lb. @ in.)	92-110 @ 1.22

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, le)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure, jet cross sprayed

(Continued)

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MODEL 19400	427 Cu. In. V-8 430 HP Opt. (L88)

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. engine rpm)	50-75 PSI @ 2000 (A)
Oil press. sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part., other)	Full flow
Filter replacement (element, complete)	Element
Capacity of c case, less filter-refill (qt.)	5
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 temperature below freezing)
Engine Service Reqmt. (MM, MS, etc.)	MS or DG

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		Two, reverse flow
Exhaust pipe dia. (O.D.,wall thick.)	Branch	2.50 x .072-.092
	Main	2.50 x .084-.014 laminated
Tail pipe dia. (O.D. & wall thickness)		2.62 x .062-.072

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)		Standard	Induction System
		Optional	--
Control Unit	Make and model		AC Spark Plug 6424250
	Location		Left front of rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)		Manifold vacuum
	Control method (variable orifice, fixed orifice, other)		Variable orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)		Carburetor air cleaner
	Flame arrestor (screen, check valve, other)		Screen

A - Bench test - no flow condition.

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MODEL 19400 — 427 Cu. In. V-8, 430 HP - Manual Transmission

ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)			Air Injection
Air Injection Pump	Type		Semi-articulated vane type
	Displacement		19.3 cubic inches
	Drive ratio		1.15:1
	Drive type		Crankshaft pulley
	Relief valve (type)		Pressure (plate type)
	Filter (describe)		Centrifugal 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)		Diverter valve
Carburetor	Make		Holley
	Model		3925519
	Barrel size		1.75 primary & secondary
	Idle speed	Drive	1000
		Neutral	--
	Idle A/F mixture		Not specified
Distributor	Aux. Adv. Systems (type)		None
	Make		Delco Remy
	Model		1111295
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	5000
		Intermed. points deg. @ rpm	18 @ 1900
		Max. deg. @ rpm	30 @ 5000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	None
		Intermed. points deg. @ in. Hg	
		Max. deg. @ in.	None
	Vacuum Source		Carburetor
Timing - Crank degrees @ rpm			12 BTDC @ Idle
Cooling System (describe changes)			None
Exhaust System (describe changes)			None

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MODEL 19400

427 Cu. In. V-8
430 HP Opt (L88)

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 (U.S. gals.)		20 (approximately)
	Filler location		Center at rear deck
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Lower right front of engine
	Pressure range		5.00-6.50 PSI
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Fine mesh plastic strainer in gas tank
	Locations		and paper filter in carburetor inlet
Carburetor	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air cleaner type	Standard	Oil-wetted paper element
		Optional	None
	Idle speed (spec. neutral or drive)	Manual	1000
		Automatic	--
		Idle A/F mix.	Not specified

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
19400	427	4-Speed	Holley	3925519	One; 4-bbl	1.750 Primary & Secondary

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MODEL 19400

427 Cu. In. V-8
430 HP Opt (L88)

ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			15 ± 1 PSI
Circulation thermostat	Type (choke, bypass)		Choke
	Starts to open at (°F)		192°-198°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM = 1000 pump rpm		82 @ 5200
	Number of pumps		One
	Drive (V-belt, other)		V-Belt
	Bearing type		Double row ball
By-pass recirculation type (inter., ext.)			External
Radiator core type (cellular, tube and fin, other)			Cross flow
Cooling system capacity	With heater (qt.)		22
	Without heater (qt.)		21
	Opt. equipment-specify (qt.)		--
Water jackets full length of cyl. (yes, no)			Yes
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight)	One, molded
		Inside diameter	1.88
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One, molded
		Inside diameter	.725-.765
Fan	Number of blades & spacing		5 Staggered
	Diameter		17.50
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		Thermo-modulated-viscous coupling
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		AB
	Generator or alternator		A
	Water Pump		B
	Power Steering		NA
	Air Conditioning		NA

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	42°									
Nominal length (SAE)	56.00	34.40									
Width		.380									

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MODEL 19400 — 427 Cu. In. V-8 430 HP Opt (L88)

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980087
	Voltage Rtg. & Total Plates		12 volt-78 plate
	SAE Designation & Amp. Hr. Rtg.		62 amp/hr @ 20 hr. rate
	Location		Behind driver seat in stowage compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco-Remy
	Model		1100696
	Type and rating		Diode rectified 9-37 amps
	Output at engine idle (neutral)		24 amps
	Ratio–Gen. to Cr.'s rev.		2.46:1
Regulator	Make		Delco-Remy
	Model		1119515
	Type		Vibrator
	Cutout relay	Closing voltage generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.8-14.8 @ 85°F
		Current	--
	Voltage test conditions	Temperature	Operating
		Load	3-8 amperes
		Other	None

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy
	Model		1107365
	Rotation (drive end view)		Clockwise
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		4-Spd-Place gearshift lever in neutral & depress clutch INITIAL START-Press accelerator to floor & release. Turn ignition to START, release as soon as engine starts.
Motor Drive	Engagement type		Position shift solenoid
	Pinion meshes (front, rear)		Rear
	Number of teeth	Pinion	9
		Flywheel – Manual	168
		Flywheel – Auto.	NA
	Flywheel tooth face width	Manual	.4100-.4220
		Auto.	NA

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MODEL 19400 — 427 Cu. In. V-8 430 HP Opt. (L88)

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		NA
	Transistorized – Std., Opt., N.A.		Standard
	Other (specify)		None
Coil	Make		Delco-Remy
	Model		1115287
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		Delco-Remy
	Model		1111295
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	1200
		Intermediate points deg. @ rpm	18 @ 1900
		Max. deg. @ rpm	30 @ 5000
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	None
		Intermediate points, deg. @ in. Hg.	None
		Max. deg. in. Hg.	None
	Breaker gap (in.)		Magnetic
	Cam angle (deg.)		Pulse
	Breaker arm tension (oz.)		Amplifier
Timing	Crankshaft deg. @ rpm		12 BTC at idle
	Mark location		Torsional damper
Spark Plug	Make		AC Spark Plug
	Model		AC43N
	Thread (mm)		14
	Tightening torque (lb. ft.)		25
	Gap		.033-.038
Cable	Conductor type		Linen core impregnated with electrical conducting
	Insulation type		Rubber with neoprene jacket
	Spark plug protector		Hypalon jacket

ELECTRICAL – SUPPRESSION

Locations & type	Non-metallic, high tension ignition

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MODEL 19400 — 427 Cu. In. V-8, 430 H.P. Opt. (L88)

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial
	Trip odometer (yes,no)	Yes
Charge indicator – type		Ammeter
Temperature indicator – type		Electric gauge
Oil pressure indicator – type		Bourdon tube gauge
Fuel indicator – type		Electric gauge
Other		Mechanical tachometer
Windshield wiper	Type – Standard	Electric two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(Low note) 4.5-6.5 @ 12.5V. (Hi note) 4.2-6 @ 12.5V.

DRIVE UNITS – CLUTCH (Manual Transmission)

		4-Speed
Make & type		Chevrolet, single dry disc. semi-centrifugal
Type pressure plate springs		Circular plate diaphragm, bent finger design
Total spring load (lb.)		2600-2800
. of clutch driven discs		One
Clutch facing	Material	Premium grade woven type asbestos
	Outside & inside dia.	11.00 & 6.50
	Total eff. area (sq.in.)	123.70
	Thickness	.140 each
	Engagement cushioning method	Flat spring steel between cushions
Release bearing	Type & method of lubrication	Single row ball, packed and sealed
Torsional damping	Methods: springs, friction material	Coil, springs

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MODEL	19400	427 Cu. In. V-8 430 HP Opt (L88)

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Not available
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Not available

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds			4 4-Speed
Transmission ratios	In first		2.20
	In second		1.64
	In third		1.27
	In fourth		1.00
	In reverse		2.26
Synchronous meshing, specify gears			All forward gears
Shift lever location			Floor mounted
Lubricant	Capacity (pt.)		3
	Type recommended		Military spec. MIL-L-2105-B
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

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MODEL 19400

DRIVE UNITS – AUTOMATIC TRANSMISSION - NOT AVAILABLE

Trade name		
Type describe		
Selector location		
List gear ratios Selector Pattern and indicate which are used in each selector position		
Max. upshift speed–drive range		
Max. kickdown speed–drive range		
Torque convertor	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
Lubricant	Capacity–refill (pt.)	
	Type recommended	
Special transmission features		

DRIVE UNITS – PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube
Outer diam. x length* x wall thickness	Manual 3-speed trans.	Not available
	Manual 4-speed trans.	2.00 x 29.90 x .095
	Overdrive transmission	Not available
	Automatic transmission	Not available

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

(Continued)

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MODEL 19400

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		--
Slip Yoke	Type		Yoke
	Number of teeth		27
	Spline O.D.		1.1750
Universal joints	Make and Mfg. No.		Chevrolet, 3868728
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		V-Belt
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube or arms, springs)			Torque control arms
Torque taken through (torque tube or arms, springs)			Torque control arms

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-floating, overhung pinion gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.5
No. of differential pinions			2
Pinion adjustment (shim, other)			None
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Taper roller
Lubricant	Capacity (pt.)		3.7
	Type recommended		Meeting Military Specs MIL-L-2105-B
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.36	3.55	3.70	4.11	4.56
No. of teeth	Pinion	11	9	10	9	9
	Ring gear	37	32	37	37	41
Gear O.D.		8.375				

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MODEL			19400

DRIVE UNITS – WHEELS

Type & material			Short spoke disc steel
Rim (size & flange type)		Std.	15 x 7 JK
		Opt.	None
Attachment	Type (bolt or stud)		Stud
	Circle diameter		4.75
	Number and size		5 Hex nuts 7/16-20 UNF 2-B

MODEL			

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		F 70 x 15-2 ply (4 ply rating)
	Type (bias, radial, etc.)		Bias
	Full rated inflation Press.	Front	24
		Rear	24
	Rev./Mile at 50 MPH		776
Optional	Size, ply rating, & ply		None

BRAKES – PARKING

Type of control		Grip handle control
Location of control		Center of floor console
Operates on		Rear wheels
If separate from service brakes	Type (internal or external)	Internal
	Drum diameter	6.5
	Lining size (length x width x thickness)	6.78 x 1.25 x .175

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL 19400

BRAKES – SERVICE

Type (drum or disc)				Caliper disc, 4-wheel hydraulic
Self adjusting (std., opt., N.A.)				Standard
Power brake make & type (remote, int., etc.)		Std.		--
		Opt.		Delco-Moraine vacuum power unit: integral
Effective area (sq. in.)*				78.1
Gross lining area (sq. in.)**				86.3
Swept area (sq. in.)***				461.2
Percent brake effectiveness – front				65
Drum or Disc	Diameter (nominal)	Front		11.75 x 1.25
		Rear		11.75 x 1.25
	Type and material			Cast iron
	Disc (vented or solid)			Vented
	No. pistons per caliper			4
Wheel cylinder bore	Front			1.875
	Rear			1.375
Master Cylinder	Bore			1.00
	Displacement distribution	Front %		65
		Rear %		35
ic Brk. valve	Type (proportion, delay, metering, other)			Check valve
Pedal arc ratio				4.52
Line pressure at 100 lb. pedal load				576
Shoe clearance adjustment				Self-adjusting
Brake lining	Drum or Disc			Disc
	Bonded or riveted			Riveted
	Front Wheel	Material		Woven asbestos
		Size (length x width x thickness)	Prim. or outboard	5.96 x 2.21 x .41
			Second. or inboard	5.96 x 2.21 x .41
		Segments per shoe		One
	Rear Wheel	Material		Woven asbestos
		Size (length x width x thickness)	Prim. or outboard	5.96 x 2.21 x .41
			Second. or inboard	5.96 x 2.21 x .41
		Segments per shoe		One

* 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 contact circumference.)

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MODEL					19400
STEERING					
Manual (std., opt., NA)					Standard
Power (std., opt., NA)					--
Adjustable steering wheel (tilt, swing, other)		Type and description			Telescopic steering column; 3" adjustment
		(std., opt., NA)			Optional
Wheel diameter		Manual			16.0
		Power			16.0
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Outside whl. angle with inside whl. at 20°					18.47
Manual	Gear	Type			Semi-reversible, recirculating ball nut
		Make			Saginaw
		Ratios	Gear		16.0:1
			Overall		20.2:1
	No. wheel turns				3.4
Power	Type (coaxial, linkage, etc.)				
	Make				Not
	Gear	Type			--
		Ratios	Gear		--
			Overall		Available
	Pump driven by				--
	Number wheel turns				--
Linkage	Type				Parallelogram
	Location (front or rear of wheels, other)				Rear
	Drag link (trans. or longit.)				None
	Tie rods (one or two)				Two
Steering Axis	Inclination at camber (deg.)				6-1/2 to 7-1/2
	Bearings (type)	Upper			Ball stud with non-metallic bearing surface
		Lower			Ball stud with non-metallic bearing surface
		Thrust			None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)				P1/2 to P1-1/2
	Camber (deg.)				P1/4 to P1-1/4 (a)
	Toe-in (outside track inches)				3/32 to 5/32 (a)
Steering spindle & joint type					Steering knuckle with spherical joint
Wheel Spindle	Diameter	Inner bearing			1.2493-1.2498
		Outer bearing			.7492-.7497
	Thread size				3/4-20 NEF - 3 (Modified)
	Bearing type				Taper roller

(a) Rear wheel alignment: N 1-3/8 to N 3/8
Toe-In 1/32 to 3/32

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL	19400	12400

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling			Front stabilizer bar
Provision for brake dip control			Mounting angle of front upper control arm
Provision for acc. squat control			None
Special provisions for car jacking			Front: 5" forward of front edge of door opening, under fram Rear: 3" forward of wheel opening, under frame.
Shock absorber front & rear	Type		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
Spring	Type		Coil
	Material		Steel alloy
	Size (coil design height & I.D. bar length x dia.)		9.99 x 3.80 138.75 x .618
	Spring rate (lb. per in.)		284
	Rate at wheel (lb. per in.)		
Stabilizer	Type (link, linkless, frameless)		Link
	Material & bar diameter		Steel .9375

SUSPENSION – REAR

Type and description			(A)
Drive and torque taken through			Torque control arms
Spring	Type		Multi-leaf
	Material		Chrome carbon steel
	Size (length x width, coil design height & I.D.; bar length & dia.)		46.36 x 2.25
	Spring rate (lb. per in.)		140
	Rate at wheel (lb. per in.)		123
	Mounting insulation type		Rubber mounted at differential; Vertical loading only at shack
	If leaf	No. of leaves	9
		Shackle (comp. or tens.)	Tension
Stabilizer	Type (link, linkless, frameless)		Link
	Material		.562
Track bar type			None

A-Full independent with fixed differential, transverse multi-leaf spring, lateral struts and universally-jointed axle shafts

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MODEL	19400

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	All welded, full length, ladder constructed frame with 5 crossmembers

BODY – MISCELLANEOUS INFORMATION		SPORT COUPE	CONVERTIBLE
Drs. hinged (front, rr.)	Front doors	Front	
	Rear doors	None	
Type of finish (lacquer, enamel, other)		Lacquer	
Hood counterbalanced (yes, no)		No	
Hood release control (internal, external)		Internal	
Vehicle Indent. No. location		Left hand side on windshield garnish moulding	
Engine No. location		Front right side of cylinder block	
Theft protection - type		Warning buzzer sounds when key is left in "OFF" position with left front door open	
Vent window control method (crank, friction pivot)	Front	None	
	Rear	None	
Seat cushion type	Front	Bucket-polyurethane padding	
	Rear	None	
	3rd seat	None	
Seat back type	Front	Bucket-polyurethane padding	
	Rear	None	
	3rd seat	None	
Windshield glass type (i.e., single curved - laminated plate)		Curved-laminated plate	
Side glass type (i.e., curved - tempered plate)		Curved-tempered plate	
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Flat, tempered plate	Plastic (soft top) Curved plexiglass (aux. H.T.)
Windshield glass exposed surface area			
Side glass exposed surface area			
Backlight glass exposed surface area			
Total glass exposed surface area			

AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (*)

MODEL			19437	19467
CONVENIENCE EQUIPMENT			(Indicate whether standard, optional or NA on each series)	
Power windows	Side windows		Optional	
	Vent windows		NA	
	Backlight or tailgate		NA	
Power seats (specify type as well as availability)			NA	
Reclining front seat back (R-L or both)			NA	
Front seat head restrainer (R-L or both)			Optional	
Radios (specify type as well as availability)			Optional -- AM-FM push-button	
Rear seat speaker			NA	
Power antenna			NA	
Clock			Standard	
Air conditioner (specify type and availability)			Optional -- Four - Sedan	
Speed warning device			Optional	
Speed control device			NA	
Ignition lock lamp			Standard	
Dome lamp			Standard	NA
Glove compartment lamp			Standard	
uggage compartment lamp			NA	
Underhood lamp			NA	
Courtesy lamp			Standard	
Map lamp			NA	
Auto. trans. quad. lamp			NA	
Cornering light lamp			NA	

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	17.5
		Lowest	
	Tail	Highest	25.7
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (e)

WEIGHTS

V8 ENGINE (327) Model	CURB WEIGHT – POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING WEIGHT
2-Dr. Spt. Cpe.(19437)	1570	1640	3210					3055
Convertible (19467)	1565	1655	3220					3065

Accessories & Equipment Differential Weights				Remarks
Power Windows			+ 5	
Auxiliary Top			+ 48	With folding top: 2+7=9 less folding top
427 Cu.In. V-8 (430 hp)			+ 69	
Power Brakes			+ 10	
Radio, AM/FM			+ 16	
Radio Stereo Equip.			+ 11	

AMA-40A

AMA Specifications—Passenger Car

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

MANUFACTURER Chevrolet Motor Division Owner Relations Department	CAR NAME CORVETTE	
MAILING ADDRESS 1077 Argonaut "A" G.M. Bldg. Detroit, Michigan 48202	MODEL YEAR 1968	ISSUED: 10-15-67 REVISED (•)

NOTES:
1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacture
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

BODY – TYPES AND STYLE NAMES – Body type, number of passenger & style names; use manufacturer's code for series & body style.

	327 Cu.In.		427 Cu.In.		
	V8-300HP Standard	V8-350HP Opt(L79)	V8-390HP Opt(L79)	V8-400HP Opt(L68)	V8-43[illegible]HP Opt[illegible]71
2-Door Sport Coupe, 2-Pass.		19437			
2-Door Convertible, 2-Pass.		19467			

AMA Specifications—Passenger Car

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	
			SOFT TOP	HARDTOP
WIDTH				
Track – Front	W101	58.3		
Track – Rear	W102	59.0		
Maximum overall car width	W103	69.2		
Body width at No. 2 pillar	W117			
LENGTH				
Body "O" to front of dash	L 30			
Wheelbase	L101	98.0		
Overall car length	L103	182.1		
Overhang – front	L104	40.2		
Overhang – rear	L105	43.9		
Body upper structure length	L123	54.7		
Body "O" line to ℄ of rear wheel	L127	72.0		
Body "O" line to w/s cowl point	L130	11.6		
HEIGHT				
Overall height	H101	47.8		
Cowl height	H114	26.6		
Deck height	H138			
Rocker panel – front: To ground	H112	7.6		
Rocker panel – front: From front wheel ℄	H112			
Rocker panel – rear: To ground	H111	7.6		
Rocker panel – rear: From rear wheel ℄	H111			
Windshield slope angle	H122	57		
GROUND CLEARANCE				
Bumper to ground – front	H102	9.2		
Bumper to ground – rear	H104	12.3		
Angle of approach	H106	22		
Angle of departure	H107	21		
Ramp breakover angle	H147	22		
Min. running clearance (Specify)	H156	4.9 (Exhaust to ground)		

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	
			SOFT TOP	HARDTOP
FRONT COMPARTMENT				
Effective head room	H61	36.2	37.1	36.0
Max. eff. leg room – accelerator	L34	43.0		
H Point to Heel point	H30	6.5		
H Point travel	L17	4.5		
Shoulder room	W 3	46.9		
Hip room	W 5	48.8		
Upper body opening to ground	H50	43.6		
REAR COMPARTMENT				
H Point couple distance	L50	--		
Effective head room	H63	--		
Min. effective leg room	L51	--		
H Point to Heel point	H31	--		
Min. knee room	L48	--		
Rear Compartment room	L 3	--		
Shoulder room	W 4	--		
Hip room	W 6	--		
Upper body opening to ground	H51	--		
LUGGAGE COMPARTMENT				
Usable luggage capacity	V 1			
Liftover height	H195			
Position of spare tire storage				
Method of holding lid open				
STATION WAGON – THIRD SEAT				
Shoulder Room	W85			
Hip room	W86			
Effective leg room	L86	NOT AVAILABLE		
Effective head room	H86			
Seat facing direction				
STATION WAGON – CARGO SPACE				
Cargo length at floor – front seat	L202			
Cargo length at belt – front seat	L204			
Cargo width – wheelbase	W201			
Opening width at belt	W204	NOT AVAILABLE		
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2			

AMA Specifications—Passenger Car

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO ** (Std. first) (Indicate A/C ratio) *			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM			A	B	C	D
ALL MODELS	327 Std.	One; 4-Bbl	10.0:1	300 @ 5000	360 @ 3400	3-Speed (2.54:1 low) & 4-Speed* (2.52:1 low)	Base	3.36	3.08	--	--
							A/C	3.36	3.08		
						Turbo * Hyd-Mtc.	Base	3.08	--	--	--
							A/C	3.08	--	--	--
	327 Opt. (L79)	One; 4-Bbl	11.0:1	350 @ 5800	360 @ 3600	4-Speed* (2.52:1 low)	Base	3.36	--	3.55	--
							A/C	3.36	--	3.55	--
						4-Speed* (2.20:1 low)	Base	3.70	--	4.11	--
							A/C	3.70	--	4.11	--
	427 Opt. (L36)	One; 4-Bbl	10.25:1	390 @ 5400	460 @ 3600	4-Speed* (2.52:1 low)	Base	3.08	--	3.36	
							A/C	3.08	--	3.36	--
						4-Speed* (2.20:1 low)	Base	3.36	3.08	3.55	3.70
							A/C	3.36	3.08	3.55	3.70
						Turbo * Hyd-Mtc	Base	3.08	2.73	--	--
							A/C	3.08	2.73	--	--
	427 Opt. (L68)	Three; 2-Bbl	10.25:1	400 @ 5400	460 @ 3600	4-Speed* (2.52:1 low)	Base	3.08	--	3.36	--
							A/C	3.08	--	3.36	--
						4-Speed* (2.20:1 low)	Base	3.36	3.08	3.55	3.70
							A/C	3.36	3.08	3.55	3.70
						Turbo * Hyd-Mtc	Base	3.08	2.73	--	--
							A/C	3.08	2.73	--	--
	427 Opt. (L71)	Three 2-Bbl	11.0:1	435 @ 5800	460 @ 4000	4-Speed* (2.20:1 low)	Base	3.55	3.36	3.70	4.11
							A/C	Not available			

A-Standard
B-Economy
C-Performance
D-Special Purpose
*-Optional
** -Positraction axles available optionally for 327 Cu. In. 3-Speed & 4-Speed combinations. All other engine-transmission. axle combinations are available as positraction only.

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

MODEL 19400	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt(L36)	400 HP Opt. (L68)	435 HP Opt. (L7

ENGINE – GENERAL

Type, no. cyls., valve arr.		90° OHV V-8				
Bore and stroke (nominal)		4.00 x 3.25		4.25 x 3.76		
Piston displacement, cu. in.		327		427		
Bore spacing (℄ to ℄)		4.4		4.84		
No. system (front to rear)	L. Bank	1-3-5-7				
	R. Bank	2-4-6-8				
Firing order		1-8-4-3-6-5-7-2				
Compres. ratio (nominal)		10.0:1	11.0:1	10.25:1		11.0:1
Cylinder Head Material		Cast alloy iron				
Cylinder Block Material		Cast alloy iron				
Cyl. Sleeve-Wet, dry, none		None				
Number of mtg. points	Front	Two				
	Rear	One				
Engine installation angle		3°				
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		51.2		57.8		
Publishing max. bhp* @ eng. RPM		300 @ 5000	350 @ 5800	390 @ 5400	400 @ 5400	435 @ 5
Publishing max. torque * (lb. ft. @ RPM)		360 @ 3400	360 @ 3600	460 @ 3600	460 @ 3600	460 @ 4
Recommended fuel regular – premium						

ENGINE – PISTONS

Material		Cst. al. alloy	(a)	Cast aluminum alloy		(a)
Description and finish		Flat notched head	Domed head, valve cutout			
Weight (piston only) oz.		21.60	20.64	28.00		24.67
Clearance (limits)	Top land	.0365 - .0455		.0305 - .0375		.0265 -
	Skirt Top	.0005-.0011(b)	.0024-.0030(c)	.0012 - .0018(d)		.0040 -
	Skirt Bottom	•				
Ring groove depth	No. 1 ring	.2217 - .2283		.2348 - .2413		
	No. 2 ring	.2217 - .2283		.2348 - .2413		
	No. 3 ring	.2038 - .2103		.2183 - .2248		.2133 -
	No. 4 ring	None				

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

(a) Aluminum impact extruded
(b) Measured 2.24 from top of piston
(c) Measured 2.20 from top of piston
(d) Measured 1.91 from top of piston
(e) Measured 2.07 from top of piston

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

MODEL 19400

	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP	350 HP	390 HP	400 HP	435 HI
	Standard	Opt. (L79)	Opt. (L36)	Opt. (L68)	Opt. (L7

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; bbl.face; chrome plate on L30, Moly inlay on rema /d			
	Lower	Cast alloy iron; chrome plate on L79 & L71, wear resistant ctng. or			
	Width	(a)	(b)	.0770-.0775	/remai
	Gap	(c)		.010-.020	
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD Expander-stainless steel			
	Width	.1870-.1890 (assembled)			
	Gap	.015-.055		.010-.030	
Expanders		In oil ring assembly			

ENGINE – PISTON PINS

Material			Chromium steel			
Length			2.990-3.010		2.930-2.950	
Diameter			.9270-.9273		.9895-.9898	
Type	Locked in rod, in piston, floating, etc.		Locked in rod			
	Bushing	In rod or piston	None			
		Material	--			
Clearance	In piston		.00015-.00025	.00045-.00055	.00025-.00035	.00030-.000
	In rod		None			
Direction & amount offset in piston			(d)	On center	(d)	On cente

ENGINE – CONNECTING RODS

Material		Drop forged steel		High alloy stee
Weight (oz.)			27.84	27.84
Length (center to center)		5.699-5.701	6.130-6.140	
Bearing	Material & Type	Premium aluminum		
	Overall length	.797	.857	
	Clearance (limits)	.0007-.0027	.0009-.0029	.0014-.003
	End play	.009-.013	.016-.020	

(a) Upper .0775-.0780; lower .0770-.0775
(b) Upper .0770-.0775; lower .0775-.0780
(c) Upper .010-.020; lower .013-.025
(d) Major thrust side .055-.065

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MODEL 19400

			327 Cu. In. V-8		427 Cu. In. V-8		
			300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	425 HP Opt. (L7
ENGINE – CRANKSHAFT							
Material			Cast nodular iron		Forged steel		
Vibration damper type			Rubber mounted inertia				
End thrust taken by bearing (No.)			Five				
Crankshaft end play			.002 - .006		.006 - .010		
Main bearing	Material & type		Premium aluminum except No. 5 is sintered copper nickel backed babbitt				
	Clearance		(a)		(b)		(c)
	Journal dia. and bearing overall length	No. 1	2.4502 x .752		2.7507 x .992		2.7505 x .9
		No. 2	2.4505 x .752		2.7507 x .992		2.7505 x .9
		No. 3	2.4505 x .752		2.7505 x .992		2.7505 x .9
		No. 4	2.4505 x .752		2.7505 x .992		2.7505 x .9
		No. 5	2.4507 x 1.177		2.7506 x 1.2525		2.7506 x 1.25
		No. 6	None				
		No. 7	None				
	Dir. & amt. cyl. offset		None				
Crankpin journal diameter			2.099 - 2.100		2.199 - 2.200		
ENGINE – CAMSHAFT							
Location			In block above crankshaft				
Material			Cast alloy iron				
Bearings	Material		Steel backed babbitt				
	Number		5				
Type of Drive	Gear or chain		Chain				
	Crankshaft gear or sprocket material		Steel sprocket				
	Camshaft gear or sprocket material		Cast alloy iron		Cast aluminum		
	Timing chain	No. of links	46		50		
		Width	.740		.740		
		Pitch	.500		.500		
ENGINE – VALVE SYSTEM							
Hydraulic lifters (Std., opt., NA)			Standard				N.A.
Valve rotator, type (intake, exhaust)			None				
Rocker ratio			1.50:1		1.70:1		
Operating tappet clearance (indicate hot or cold)	Intake		Zero				.024
	Exhaust		Zero				.028

(Continued)

(a) No. 1, .0008 - .0020; No. 2, 3, & 4, .0008 - .0024; No. 5, .0015 - .0031
(b) No. 1 & 2, .0010 - .0020; No. 3 & 4, .0013 - .0025; No. 5, .0015 - .0031
(c) No. 1, 2, 3 & 4, .0013 - .0025: No. 5, .0015 - .0031

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MODEL 19400	327 Cu. In. V-8			427 Cu. In. V-8	
	300HP Standard	350HP Opt. (L79)	390HP Opt. (L36)	400HP Opt. (L68)	435HP Opt. (L71

ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°	40°	40°	44°
		Closes (°ABC)	72°	86°	80°	97°
		Duration - deg.	280°	306°	300°	316°
	Exhaust	Opens (°BBC)	78°	88°	88°	86°
		Closes (°ATC)	30°	38°	32°	36°
		Duration - deg.	288°	306°	300°	302°
	Valve opening overlap		58°	78°	72°	80°
Intake	Material		Alloy steel; aluminized face; also chrome flash stem on L71 & L79			
	Overall length		4.870 - 4.889		5.215 - 5.235	5.204-5.22
	Actual overall head dia.		1.935-1.945	2.017-2.023	2.060 - 2.070	2.185-2.19
	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	.4472	.4614	.5197
	Outer spring press. & length	Valve closed (lb. @ in.)	76-84 @ 1.70		94-106 @ 1.88	
		Valve open (lb. @ in.)	194-206 @ 1.25		303-327 @ 1.38	
	Inner spring press. & length	Valve closed (lb. @ in.)	Spring damper			
		Valve open (lb. @ in.)	Spring damper			
Exhaust	Material		High alloy steel; aluminized face; also chrome flash stem on L7			
	Overall length		4.913-4.933	4.891-4.910	5.345-5.365 /& L79	
	Actual overall head dia.		1.495-1.505	1.595-1.605	1.715-1.725	
	Angle of seat & face		46° (seat) 45° (face)			
	Seat insert material		None			
	Stem diameter		.3410-.3417		.3713-.3720	
	Stem to guide clearance		.0010-.0027		.0015-.0032	
	Lift (@ zero lash)		.4100	.4472	.4800	.5197
	Outer spring press. & length	Valve closed (lb. @ in.)	76-84 @ 1.70		94-106 @ 1.88	
		Valve open (lb. @ in.)	194-206 @ 1.25		303-327 @ 1.38	
	Inner spring press. & length	Valve closed (lb. @ in.)	Spring damper			
		Valve open (lb. @ in.)	Spring damper			

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from front camshaft bearing
	Cylinder walls	Pressure; jet cross sprayed

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

MODEL 19400	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 H Opt. (

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. engine rpm)(A)	30-45 PSI @ 1500	50-75 PSI @ 2000
Oil press. sending unit (elect. or mech.)	Electric	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part., other)	Full flow	
Filter replacement (element, complete)	Element	
Capacity of c/case, less filter-refill (qt.)	4	5
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 fr	
Engine Service Reqmt. (MM, MS, etc.)	MS or DG	

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual	
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two, reverse flow	
Exhaust pipe dia. (O.D., wall thick.) Branch	2.50 x .072-.092	
Exhaust pipe dia. (O.D., wall thick.) Main	2.50 x .084-.104 (laminated)	
Tail pipe dia. (O.D. & wall thickness)	2.62 x .062-.072	

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction system	
	Optional		
Control Unit	Make and model	AC Spark Plug 6424251 (327 cu. in); 6424250 (396 & 427 c	
	Location	Left front of rocker cover	
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
	Control method (variable orifice, fixed orifice, other)	Variable orifice	
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner	
	Flame arrestor (screen, check valve, other)	Screen	

A-Bench test - no flow conditions

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (•)

MODEL 19400	327 Cu. In. V-8 300 HP Standard		327 Cu. In. V-8 350 HP Opt. (L79)	427 Cu. In. V-8 390 HP Opt. (L36)		427 Cu. In. V-8 400 HP Opt. (L68)		427 Cu. In. V-8 435 HP Opt. (L71)
ENGINE – EXHAUST EMISSION CONTROL	Man.	Auto.	Manual	Man.	Auto.	Man.	Auto.	Manual
Type (Air injection, engine modifications, other)	MANUAL TRANSMISSION - Air injection reactor equipment AUTOMATIC TRANSMISSION-Controlled combustion system							
Air Injection Pump * – Type	Semi-articulated vane type							
Air Injection Pump * – Displacement	19.3							
Air Injection Pump * – Drive ratio	1.15:1							
Air Injection Pump * – Drive type	Crankshaft pulley							
Air Injection Pump * – Relief valve (type)	Diverter valve		Pressure (plate type)					
Air Injection Pump * – Filter (describe)	Centrifugal air cleaner							
Air Injection System * – Air distribution (head, manifold, etc.)	Manifold							
Air Injection System * – Point of entry	Exhaust ports							
Air Injection System * – Injection tube I.D.	.2565							
Air Injection System * – Check valve type	Pressure (plate type)							
Air Injection System * – Backfire protection (type)	Diverter valve							
Carburetor – Make	Rochester							
Carburetor – Model	(a)	(b)	7028209	(c)	(d)	(e)	(f)	(c)
Carburetor – Barrel size								
Carburetor – Idle speed – Drive	-	600	-	-	600	-	600	-
Carburetor – Idle speed – Neutral	700	-	750	700	-	750	-	750
Carburetor – Idle A/F mixture	Not specified							
Distributor – Aux. Adv. Systems (type)	None							
Distributor – Make	Delco-Remy							
Distributor – Model	1111194		1111438	1111293				1111296
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Start (rpm)	900		950	900				900
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Intermed. points deg. @ rpm	15@1500		20@1800	17@2000				None
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Max. deg. @ rpm	30@5100		30@4700	32@5000				30@3800
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Start (in Hg)	6.00		6.00	7.00				8.00
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Intermed. points deg. @ in. Hg	None							
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Max. deg. @ in.	15 @ 12		15 @ 15.5	12 @ 12				15 @ 15.5
Distributor – Vacuum Source	Carburetor							
Timing - Crank degrees @ rpm	4BTC at idle							
Cooling System (describe changes)	None							
Exhaust System (describe changes)	None							

* - Used with manual transmissions only.

(a) 7028207 (c) 7028209 (e) 3925517 Primary; 3902353 Secondary

(b) 7028208 (d) 7028216 (f) 3925516 Primary; 3902353 Secondary

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

MODEL 19400

ENGINE – FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

			327 Cu. In. V-8		427 Cu. In. V-8		
			300 HP Standard	350 HP Opt. (79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 H Opt. (L
Induction type: Carburetor, fuel injection, supercharger.			Carburetor				
Fuel Tank	Refill capacity (U.S. gals.)		20 (approximately)				
	Filler location		Center at rear deck				
Fuel Pump	Type (elec. or mech.)		Mechanical				
	Locations		Lower right front of engine				
	Pressure range		5.00 - 6.50 PSI				
Vacuum booster (std., optional, none)			None				
Fuel Filter	Type		Fine mesh plastic strainer in gas tank and paper filter in carburetor inlet				
	Locations						
Carburetor	Choke type		Automatic				
	Intake manifold heat control (exhaust or water)		Exhaust				
	Air cleaner type	Standard	Oil-wetted paper element			Polyurethane	
		Optional					
	Idle speed (spec. neutral or drive)	Manual	700	750	700	750	
		Automatic	600	NA	600	600	NA
		Idle A/F mix.					

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
19400	327 300 hp	3-spd & 4-spd	Rochester	7028207	One; 4-Bbl down-draft	1.38 (prim
		Turb Hyd-Mtc.	Rochester	7028208		2.25 (seco
	327 350 hp	4-Speed	Rochester	7028219		
	427 390 hp	4-Speed	Rochester	7028209		
		Turb Hyd-Mtc.	Rochester	7028216		
	427 400 hp	4-Speed	Holley	3925517 (primary) 3902353 (secondary)	Three; 2-Bbl (1-prim) (2-sec)	1.50 (prim
		Turbo Hydra-Matic	Holley	3925516 (primary) 3902353 (secondary)		1.75 (seco
	427 435 hp	4-Speed	Holley	3925517 (primary) 3902353 (secondary)		

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MODEL 19400	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71)

ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure with surge tank		Pressure		
Radiator cap relief valve pressure			15 ± 1 PSI				
Circulation thermostat	Type (choke, bypass)		Choke				
	Starts to open at (°F)		192°-198°				
Water pump	Type (centrifugal, other)		Centrifugal				
	GPM @ 1000 pump rpm		57 @ 4400		82 @ 5200		
	Number of pumps		One				
	Drive (V-belt, other)		V-Belt				
	Bearing type		Double row ball				
By-pass recirculation type (inter., ext.)			Internal	External			
Radiator core type (cellular, tube and fin, other)			Cross flow				
Cooling system capacity	With heater (qt.)		15		22		
	Without heater (qt.)		14		21		
	Opt. equipment-specify (qt.)						
Water jackets full length of cyl. (yes, no)			Yes				
Water all around cylinder (yes, no)			Yes				
Radiator hose	Lower	Number and type (molded, straight)	One, molded				
		Inside diameter	1.75		1.88		
	Upper	Number and type (molded, straight)	One, molded				
		Inside diameter	1.50				
	By-pass	Number and type (molded, straight)	None	One, molded			
		Inside diameter	None	.725-.765			
Fan	Number of blades & spacing		5-staggered				
	Diameter		17.50				
	Ratio-fan to crankshaft rev.		.949:1				
	Fan cutout type		Thermo-modulated-viscous coupling				
	Bearing type		Double row ball				
*Drive belts (indicate belt used by letter)	Fan		A	EF	JF		
	Generator or alternator		A	E	J		
	Water Pump		A	EF	JF		
	Power Steering		B	G	G	G	NA
	Air Conditioning		C	H	K	K	NA
	Air Injection Pump		D	I	I	I	I

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	←				38° – 42°						
Nominal length (SAE)	53.25	36.25	57.50	34.00	54.00	34.40	45.00	56.75	33.50	56.00	45.7
Width	←				.380						

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MODEL	19400	327 Cu. In. V-8		427 Cu. In. V-8		
		300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L7

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980087				
	Voltage Rtg. & Total Plates		12 volt-78 plate				
	SAE Designation & Amp. Hr. Rtg.		62 amp/hr @ 20 hr. rate				
	Location		Behind driver seat in stowage compartment				
	Terminal grounded		Negative				
Generator or Alternator	Make		Delco-Remy				
	Model		1100696				
	Type and rating		Diode rectified 9-37 amps.				
	Output at engine idle (neutral)		13 amps	22 amps	16 amps	24 amp	
	Ratio—Gen. to Cr/s rev.		2.46:1				
Regulator	Make		Delco-Remy				
	Model		1119515				
	Type		Vibrator				
	Cutout relay	Closing voltage & generator rpm	None				
		Reverse current to open	None				
	Regulated	Voltage	13.8-14.8 @ 85° F				
		Current	- - -				
	Voltage test conditions	Temperature	Operating				
		Load	3-8 amperes				
		Other	None				

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy				
	Model		1108361		1107365		
	Rotation (drive end view)		Clockwise				
Motor control	Switch (solenoid, manual)		Solenoid				
	Starting procedure		3-Spd & 4-Spd-Place gearshift lever in neutral and depre /c AUTOMATIC-Place control lever in "N" or "P" position INITIAL START-Press accelerator to floor and release. T ignition to START, release as soon as engine starts.				
Motor Drive	Engagement type		Position shift solenoid				
	Pinion meshes (front, rear)		Rear				
	Number of teeth	Pinion	9				
		Flywheel Manual	153		168		
		Flywheel Auto.	153	NA	168	NA	
	Flywheel tooth face width	Manual	.4010-.4130		.4100-.4220		
		Auto.	.4010-.4130	NA	.4100-.4220	NA	

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MODEL 19400

			327 Cu. In. V-8		427 Cu. In. V-8		
			300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L7)
ELECTRICAL – IGNITION SYSTEM							
Type	Conventional – Std., Opt., N.A.		Standard				NA
	Transistorized – Std., Opt., N.A.		NA	Optional			Standard
	Other (specify)		None				
Coil	Make						
	Model		1115270		1115287		
	Amps	Engine stopped	4.0				
		Engine idling	1.8				
Distributor	Make		Delco-Remy				
	Model		1111194	1111438	1111293		1111296
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	900	950	900		900
		Intermediate points deg.@rpm	15@1500	20@1800	17@2000		None
		Max. deg.@rpm	30@5100	30@4700	32@5000		30@5800
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	6.00	6.00	7.00		8.00
		Intermediate points, deg.@in. Hg.					
		Max. deg. in. Hg.	15 @ 12	15 @ 15.5	12 @ 12		15 @ 15.5
	Breaker gap (in.)		.019				Magnetic
	Cam angle (deg.)		28-32				Pulse
	Breaker arm tension (oz.)		19-23		28-32		amplifier
Timing	Crankshaft deg.@rpm		4BTC at idle				
	Mark location		Torsional damper				
Spark Plug	Make		AC Spark Plug				
	Model		AC44		AC43N		
	Thread (mm)		14				
	Tightening torque (lb. ft.)		25				
	Gap		.033-.038				
Cable	Conductor type		Linen core impregnated with electrical conducting				
	Insulation type		Rubber with neoprene jacket				
	Spark plug protector		Hypalon jacket				

ELECTRICAL – SUPPRESSION

Locations & type	Non-metallic, high tension ignition

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MODEL 19400	327 Cu. In. V-8		427 Cu. In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial
	Trip odometer (yes,no)	Yes
Charge indicator – type		Ammeter
Temperature indicator – type		Electric gauge
Oil pressure indicator – type		Bourdon tube gauge
Fuel indicator – type		Electric gauge
Other		Mechanical tachometer
Windshield wiper	Type – Standard	Electric two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(low note) 4.5-6.5 @ 12.5V. (Hi note) 4.2-6 @ 12.5V.

DRIVE UNITS – CLUTCH (Manual Transmission)

		3 & 4-Spd	4-Speed		
Make & type		Chevrolet, single dry disc, semi-centrifugal			
Type pressure plate springs		Circular plate diaphragm, bent finger design			
Total spring load (lb.)		2100-2300	2300-2600	2450-2750	2600-2800
No. of clutch driven discs		One			
Clutch facing	Material	Premium grade woven type asbestos			
	Outside & inside dia.	10.34 & 6.50		11.00 & 6.50	
	Total eff. area (sq.in.)	101.54		123.70	
	Thickness	.135 each			
	Engagement cushioning method	Flat spring steel between cushions			
Release bearing	Type & method of lubrication	Single row ball, packed and sealed			
Torsional damping	Methods: springs, friction material	Coil springs			

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MODEL	327 Cu.In. V-8		427 Cu.In. V-8		
	300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard available with 327 Cu.In. 300 HP only
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Turbo Hydra-Matic optional with 300 HP (std) 390 HP (L3 & 400 HP (L68) onl

DRIVE UNITS – MANUAL TRANS.

			3-Speed(a)	4-Speed(b)	4-Speed(c)
Number of forward speeds			3	4	4
Transmission ratios	In first		2.54:1	2.52:1	2.20:1
	In second		1.50:1	1.88:1	1.64:1
	In third		1.00:1	1.47:1	1.27:1
	In fourth		--	1.00:1	1.00:1
	In reverse		2.63:1	2.59:1	2.26:1
Synchronous meshing, specify gears			All forward gears		
Shift lever location			Floor mounted		
Lubricant	Capacity (pt.)		3		
	Type recommended		Meeting Military specs. MIL-L-2105B		
	SAE viscosity number	Summer	SAE 80		
		Winter	SAE 80		
		Extreme cold	SAE 80		

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

(a) Available with 327 Cu.In. 300 HP (Std.) only
(b) Available with all engine combinations except 427 Cu.In. 435 HP (L71)
(c) Available with all engine combinations except 327 Cu.In. 300 HP (Std.)

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MODEL 19400	327 Cu.In.	427 Cu.In.
DRIVE UNITS – AUTOMATIC TRANSMISSION	Available with 327 Cu.In. 300 HP (Std.) & 427 Cu.In. 390 HP (L36) & 400 HP (L68) only	
Trade name	Turbo Hydra-Matic	
Type describe	Torque converter with planetary gears	
Selector location	Lever (floor mounted)	
List gear ratios Selector Pattern and indicate which are used in each selector position	P - Park R - 2.08 N - Neutral D - 2.48-1.48-1.00 L_2 - 2.48-1.48 L_1 - 2.48	
Max. upshift speed–drive range	51(1-2); 95(2-3)	51(1-2); 90(2-3)
Max. kickdown speed–drive range	44(2-1); 88(3-2)	40(2-1); 84(3-2)
Torque converter: Number of elements	3	
Torque converter: Max. ratio at stall	2.30	2.04
Torque converter: Type of cooling (air, liquid)	Water	
Torque converter: Nominal diameter	12.20	
Lubricant: Capacity–refill (pt.)	8	
Lubricant: Type recommended	A suffix A	
Special transmission features		

DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight tube	
Outer diam. x length* x wall thickness: Manual 3-speed trans.	2.00 x 29.90 x .095	
Outer diam. x length* x wall thickness: Manual 4-speed trans.	2.00 x 29.90 x .095	
Outer diam. x length* x wall thickness: Overdrive transmission	Not available	
Outer diam. x length* x wall thickness: Automatic transmission	2.00 x 29.50 x .095	

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

(Continued)

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MODEL

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		- - -
Slip Yoke	Type		Yoke
	Number of teeth		27
	Spline O.D.		1.1750
Universal joints	Make and Mfg. No.		Chevrolet, 3868728
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		V-Belt
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube or arms, springs)			Torque control arms
Torque taken through (torque tube or arms, springs)			Torque control arms

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-floating, overhung pinion gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.5
No. of differential pinions			2
Pinion adjustment (shim, other)			None
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Taper roller
Lubricant	Capacity (pt.)		3.7
	Type recommended		Meeting Military Specs MIL-L-2105-B
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.73	3.08	3.36	3.55	3.70	4.11
No. of teeth	Pinion	15	12	11	9	10	9
	Ring gear	41	37	37	32	37	37
Ring Gear O.D.		8.375					

AMA Specifications—Passenger Car

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

MANUFACTURER Chevrolet Motor Division General Motors Corporation	CAR NAME CORVETTE	
MAILING ADDRESS [redacted]	MODEL YEAR 1968	ISSUED: 10-15-67 REVISED (e)

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

BODY – TYPES AND STYLE NAMES – Body type, number of passenger & style names; use manufacturer's code for series & body style.

	427 Cu. In. V-8 430 HP Opt. (L88)
2-Door Sport Coupe, 2-Pass.	19437
2-Door Convertible, 2-Pass.	19467

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE SOFT TOP	CONVERTIBLE HARDTOP
WIDTH				
Track – Front	W101		58.3	
Track – Rear	W102		59.0	
...mum overall car width	W103		69.2	
...idth at No. 2 pillar	W117			
...GH				
Body "O" to front of dash	L 30			
Wheelbase	L101		98.0	
Overall car length	L103		182.1	
Overhang – front	L104		40.2	
Overhang – rear	L105		43.9	
Body upper structure length	L123	54.7		
Body "O" line to ℄ of rear wheel	L127		72.0	
Body "O" line to w/s cowl point	L130		11.6	
...GHT				
Overall height	H101	47.8		
Cowl height	H114		26.6	
Deck height	H138			
Rocker panel – front: To ground	H112		7.6	
Rocker panel – front: From front wheel ℄	H112			
Rocker panel – rear: To ground	H111		7.6	
Rocker panel – rear: From rear wheel ℄	H111			
Windshield slope angle	H122		57	
GROUND CLEARANCE				
Bumper to ground – front	H102		9.2	
Bumper to ground – rear	H104		12.3	
Angle of approach	H106		22	
Angle of departure	H107		21	
Ramp breakover angle	H147		22	
Min. running clearance (Specify)	H156		4.9 (Exhaust to ground)	

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL 19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE SOFT TOP	CONVERTIBLE HARDTOP
FRONT COMPARTMENT				
Effective head room	H61	36.2	37.1	36.0
Max. eff. leg room – accelerator	L34	43.0		
H Point to Heel point	H30	6.5		
H Point travel	L17	4.5		
Shoulder room	W 3	46.9		
Hip room	W 5	48.8		
Upper body opening to ground	H50	43.6		
REAR COMPARTMENT				
H Point couple distance	L50	--		
Effective head room	H63	--		
Min. effective leg room	L51	--		
H Point to Heel point	H31	--		
Min. knee room	L48	--		
Rear Compartment room	L 3	--		
oulder room	W 4	--		
Hip room	W 6	--		
Upper body opening to ground	H51	--		
LUGGAGE COMPARTMENT				
Usable luggage capacity	V 1			
Liftover height	H195			
Position of spare tire storage				
Method of holding lid open				
STATION WAGON – THIRD SEAT				
Shoulder Room	W85			
Hip room	W86			
Effective leg room	L86	NOT AVAILABLE		
Effective head room	H86			
Seat facing direction				
STATION WAGON – CARGO SPACE				
Cargo length at floor – front seat	L202			
Cargo length at belt – front seat	L204			
Cargo width – wheelbase	W201			
Opening width at belt	W204	NOT AVAILABLE		
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2			

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	A	B	C	D
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		AXLE RATIO * (Std. first) (Indicate A C ratio)			
19400	427 430 HP	4-bbl	12.5:1	430 @ 4600	485 @ 4000	4-Speed * (2.20:1 low)	3.36	3.08	3.55	3.70 4.11 4.56

A-Standard
B-Economy-Optional
C-Performance-Optional
D-Special Purpose-Optional

*-All engine-axle combinations are available as positraction only.

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MODEL 19400 — 427 Cu. In. V-8, 430 HP Opt. (L88)

ENGINE – GENERAL

Type, no. cyls., valve arr.		90° OHV V-8
Bore and stroke (nominal)		4.25 x 3.76
Piston displacement, cu. in.		427
Bore spacing (℄ to ℄)		4.84
No. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
res. ratio (nominal)		12.5:1
r Head Material		Aluminum alloy
Block Material		Cast alloy iron
eeve-Wet, dry, none		None
Number of mtg. points	Front	Two
	Rear	One
Engine installation angle		3°
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		57.8
Publishing max. bhp* @ eng. RPM		430 @ 4600
Publishing max. torque * (lb. ft. @ RPM)		485 @ 4000
commended fuel egular – premium		Premium

ENGINE – PISTONS

Material			Aluminum impact extruded
Description and finish			Domed head, valve cutout
Weight (piston only) oz.			28.99
Clearance mits)	Top land		.0316-.0384
	Skirt	Top	.0058-.0066 (a)
		Bottom	--
Ring groove depth	No. 1 ring		.2373-.2437
	No. 2 ring		.2373-.2437
	No. 3 ring		.2158-.2173
	No. 4 ring		None

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

(a) Measured 2.20 from top of piston

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL 19400	427 Cu. In. V-8 430 HP Opt. (L88)

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 - material, coating, etc.	Cast alloy iron; barrel face; no bevel; molybdenum inlay
	Width	.0620-.0625
	Gap	.015-.025
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD Expander - stainless steel
	Width	.1870-.1890
	Gap	.010-.030
Expanders		In oil ring assembly

ENGINE – PISTON PINS

Material			Chromium Steel
Length			2.930-2.905
Diameter			.9895-.9898
Type	Locked in rod, in piston, floating, etc.		Locked in rod
	Bushing	In rod or piston	None
		Material	
Clearance	In piston		.00030-.00040
	In rod		None
Direction & amount offset in piston			On center

ENGINE – CONNECTING RODS

Material		High alloy steel
Weight (oz.)		27.84
Length (center to center)		6.130-6.140
Bearing	Material & Type	Premium aluminum
	Overall length	.857
	Clearance (limits)	.0014-.0034
	End play	.016-.020

AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL 19400

427 Cu. In. V-8
430 HP Opt. (L88)

ENGINE – CRANKSHAFT

Material			Forged steel
Vibration damper type			Rubber mounted inertia
End thrust taken by bearing (No.)			Five
Crankshaft end play			.006-.010
Main bearing	Material & type		Premium aluminum except No. 5 is sintered copper nickel backed babbitt.
	Clearance		#1, 2, 3, & 4 - (.0013-.0025); #5 - (.0015-.0031)
	Journal dia. and bearing overall length	No. 1	2.7510 x .992
		No. 2	2.7510 x .992
		No. 3	2.7505 x .992
		No. 4	2.7505 x .992
		No. 5	2.7506 x 1.2525
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.199- 2.200

ENGINE – CAMSHAFT

Location			In block above crankshaft
Material			Cast alloy iron
Bearings	Material		Steel backed babbitt
	Number		Five
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Steel sprocket
	Camshaft gear or sprocket material		Cast aluminum
	Timing chain	No. of links	50
		Width	.880
		Pitch	.550

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Not available
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.70:1
Operating tappet clearance (indicate hot or cold)	Intake	.024
	Exhaust	.028

(Continued)

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KE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL 19400 | 427 Cu. In. V-8 430 HP Opt. (L88)

ENGINE – VALVE SYSTEM (cont.)

SEE SHOWROOM FOR GIFT 6 Intake – .3296" Exhaust – .3412" ± .002

Timing (based on top of ramp points)	Intake	Opens (°BTC)	62°
		Closes (°ABC)	105°
		Duration - deg.	347°
	Exhaust	Opens (°BBC)	110°
		Closes (°ATC)	74°
		Duration - deg.	364°
	Valve opening overlap		136°
Intake	Material		Alloy steel; aluminized face and chrome flash stem
	Overall length		5.204-5.224
	Actual overall head dia.		2.185-2.195
	Angle of seat & face		46° (seat) 45° (face)
	Seat insert material		Nickel Moly Alloy
	Stem diameter		.3715-.3722
	Stem to guide clearance		.0010-.0027
	Lift (@ zero lash)		.5586
	Outer spring press. & length	Valve closed (lb. @ in.)	69-81 @ 1.88
		Valve open (lb. @ in.)	181-205 @ 1.32
	Inner spring press. & length	Valve closed (lb. @ in.)	37-45 @ 1.78
		Valve open (lb. @ in.)	92-110 @ 1.22
Exhaust	Material		High alloy steel: aluminized face
	Overall length		5.345-5.365
	Actual overall head dia.		1.835-1.845
	Angle of seat & face		46° (seat) 45° (face)
	Seat insert material		Nickel Moly Alloy
	Stem diameter		.3713-.3720
	Stem to guide clearance		.0015-.0032
	Lift (@ zero lash)		.5800
	Outer spring press. & length	Valve closed (lb. @ in.)	69-81 @ 1.88
		Valve open (lb. @ in.)	181-205 @ 1.32
	Inner spring press. & length	Valve closed (lb. @ in.)	37-45 @ 1.78
		Valve open (lb. @ in.)	92-110 @ 1.22

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, le)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure, jet cross sprayed

(Continued)

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MODEL	19400	427 Cu. In. V-8 430 HP Opt. (L88)

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. engine rpm)	50-75 PSI @ 2000 (A)
Oil press. sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part., other)	Full flow
Filter replacement (element, complete)	Element
Capacity of c case, less filter-refill (qt.)	5
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 temperature below freezing)
Engine Service Reqmt. (MM, MS, etc.)	MS or DG

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		Two, reverse flow
Exhaust pipe dia. D., wall thick.)	Branch	2.50 x .072-.092
	Main	2.50 x .084-.014 laminated
Tail pipe dia. (O.D. & wall thickness)		2.62 x .062-.072

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	--
Control Unit	Make and model	AC Spark Plug 6424250
	Location	Left front of rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
	Control method (variable orifice, fixed orifice, other)	Variable orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner
	Flame arrestor (screen, check valve, other)	Screen

A - Bench test - no flow condition.

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MODEL 19400

427 Cu. In. V-8
430 HP - Manual Transmission

ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)			Air Injection
Air Injection Pump	Type		Semi-articulated vane type
	Displacement		19.3 cubic inches
	Drive ratio		1.15:1
	Drive type		Crankshaft pulley
	Relief valve (type)		Pressure (plate type)
	Filter (describe)		Centrifugal 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)		Diverter valve
Carburetor	Make		Holley
	Model		3925519
	Barrel size		1.75 primary & secondary
	Idle speed	Drive	1000
		Neutral	--
	Idle A/F mixture		Not specified
Distributor	Aux. Adv. Systems (type)		None
	Make		Delco Remy
	Model		1111295
	Centrifgal adv. in crank degrees @ eng. rpm	Start (rpm)	5000
		Intermed. points deg. @ rpm	18 @ 1900
		Max. deg. @ rpm	30 @ 5000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	None
		Intermed. points deg. @ in. Hg	
		Max. deg. @ in.	None
	Vacuum Source		Carburetor
Timing - Crank degrees @ rpm			12 BTDC @ Idle
Cooling System (describe changes)			None
Exhaust System (describe changes)			None

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MODEL 19400

427 Cu. In. V-8
430 HP Opt (L88)

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 (U.S. gals.)		20 (approximately)
	Filler location		Center at rear deck
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Lower right front of engine
	Pressure range		5.00-6.50 PSI
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Fine mesh plastic strainer in gas tank
	Locations		and paper filter in carburetor inlet
Carburetor	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air cleaner type	Standard	Oil-wetted paper element
		Optional	None
	Idle speed (spec. neutral or drive)	Manual	1000
		Automatic	--
		Idle A/F mix.	Not specified

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
19400	427	4-Speed	Holley	3925519	One; 4-bbl	1.750 Primary & Secondary

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MODEL 19400

427 Cu. In. V-8
430 HP Opt (L38)

ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			15 ± 1 PSI
Circulation thermostat	Type (choke, bypass)		Choke
	Starts to open at (°F)		192°-198°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM ÷ 1000 pump rpm		82 @ 5200
	Number of pumps		One
	Drive (V-belt, other)		V-Belt
	Bearing type		Double row ball
By-pass recirculation type (inter., ext.)			External
Radiator core type (cellular, tube and fin, other)			Cross flow
Cooling system capacity	With heater (qt.)		22
	Without heater (qt.)		21
	Opt. equipment-specify (qt.)		--
Water jackets full length of cyl. (yes, no)			Yes
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight)	One, molded
		Inside diameter	1.88
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One, molded
		Inside diameter	.725-.765
Fan	Number of blades & spacing		5 Staggered
	Diameter		17.50
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		Thermo-modulated-viscous coupling
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		AB
	Generator or alternator		A
	Water Pump		B
	Power Steering		NA
	Air Conditioning		NA

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	42°									
Nominal length (SAE)	56.00	34.40									
Width		.380									

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MODEL 19400 — 427 Cu. In. V-8 430 HP Opt (L88)

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980087
	Voltage Rtg. & Total Plates		12 volt-78 plate
	SAE Designation & Amp. Hr. Rtg.		62 amp/hr @ 20 hr. rate
	Location		Behind driver seat in stowage compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco-Remy
	Model		1100696
	Type and rating		Diode rectified 9-37 amps
	Output at engine idle (neutral)		24 amps
	Ratio—Gen. to Cr.'s rev.		2.46:1
Regulator	Make		Delco-Remy
	Model		1119515
	Type		Vibrator
	Cutout relay	Closing voltage generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.8-14.8 @ 85°F
		Current	--
	Voltage test conditions	Temperature	Operating
		Load	3-8 amperes
		Other	None

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make			Delco-Remy
	Model			1107365
	Rotation (drive end view)			Clockwise
Motor control	Switch (solenoid, manual)			Solenoid
	Starting procedure			4-Spd-Place gearshift lever in neutral & depress clutch INITIAL START-Press accelerator to floor & release. Turn ignition to START, release as soon as engine starts.
Motor Drive	Engagement type			Position shift solenoid
	Pinion meshes (front, rear)			Rear
	Number of teeth	Pinion		9
		Flywheel	Manual	168
			Auto.	NA
	Flywheel tooth face width		Manual	.4100-.4220
			Auto.	NA

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MODEL 19400

427 Cu. In. V-8
430 HP Opt (L88)

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		NA
	Transistorized – Std., Opt., N.A.		Standard
	Other (specify)		None
Coil	Make		Delco-Remy
	Model		1115287
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		Delco-Remy
	Model		1111295
	Centrfgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	1200
		Intermediate points deg. @ rpm	18 @ 1900
		Max. deg. @ rpm	30 @ 5000
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	None
		Intermediate points, deg. @ in. Hg.	None
		Max. deg. in. Hg.	None
	Breaker gap (in.)		Magnetic
	Cam angle (deg.)		Pulse
	Breaker arm tension (oz.)		Amplifier
Timing	Crankshaft deg. @ rpm		12 BTC at idle
	Mark location		Torsional damper
Spark Plug	Make		AC Spark Plug
	Model		AC43N
	Thread (mm)		14
	Tightening torque (lb. ft.)		25
	Gap		.033-.038
Cable	Conductor type		Linen core impregnated with electrical conducting
	Insulation type		Rubber with neoprene jacket
	Spark plug protector		Hypalon jacket

ELECTRICAL – SUPPRESSION

Locations & type	Non-metallic, high tension ignition

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL 19400 | 427 Cu. In. V-8 430 H.P. Opt. (L88)

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial
	Trip odometer (yes,no)	Yes
Charge indicator – type		Ammeter
Temperature indicator – type		Electric gauge
Oil pressure indicator – type		Bourdon tube gauge
Fuel indicator – type		Electric gauge
Other		Mechanical tachometer
Windshield wiper	Type – Standard	Electric two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(Low note) 4.5-6.5 @ 12.5V. (Hi note) 4.2-6 @ 12.5V.

DRIVE UNITS – CLUTCH (Manual Transmission)

		4-Speed
Make & type		Chevrolet, single dry disc. semi-centrifugal
Type pressure plate springs		Circular plate diaphragm, bent finger design
Total spring load (lb.)		2600-2800
. of clutch driven discs		One
Clutch facing	Material	Premium grade woven type asbestos
	Outside & inside dia.	11.00 & 6.50
	Total eff. area (sq.in.)	123.70
	Thickness	.140 each
	Engagement cushioning method	Flat spring steel between cushions
Release bearing	Type & method of lubrication	Single row ball, packed and sealed
Torsional damping	Methods: springs, friction material	Coil, springs

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TYPE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL	19400	427 Cu. In. V-8 430 HP Opt (L88)

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Not available
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Not available

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds			4 4-Speed
Transmission ratios	In first		2.20
	In second		1.64
	In third		1.27
	In fourth		1.00
	In reverse		2.26
Synchronous meshing, specify gears			All forward gears
Shift lever location			Floor mounted
Lubricant	Capacity (pt.)		3
	Type recommended		Military spec. MIL-L-2105-B
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

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MODEL 19400

DRIVE UNITS – AUTOMATIC TRANSMISSION - NOT AVAILABLE

Trade name		
Type describe		
Selector location		
List gear ratios Selector Pattern and indicate which are used in each selector position		
Max. upshift speed–drive range		
Max. kickdown speed–drive range		
Torque converter	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
Lubricant	Capacity–refill (pt.)	
	Type recommended	
Special transmission features		

DRIVE UNITS – PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube
Outer diam. x length* x wall thickness	Manual 3-speed trans.	Not available
	Manual 4-speed trans.	2.00 x 29.90 x .095
	Overdrive transmission	Not available
	Automatic transmission	Not available

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

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MODEL 19400

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		--
Slip Yoke	Type		Yoke
	Number of teeth		27
	Spline O.D.		1.1750
Universal joints	Make and Mfg. No.		Chevrolet, 3868728
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		V-Belt
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube or arms, springs)			Torque control arms
Torque taken through (torque tube or arms, springs)			Torque control arms

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-floating, overhung pinion gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.5
No. of differential pinions			2
Pinion adjustment (shim, other)			None
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Taper roller
Lubricant	Capacity (pt.)		3.7
	Type recommended		Meeting Military Specs MIL-L-2105-B
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.36	3.55	3.70	4.11	4.56
No. of teeth	Pinion	11	9	10	9	9
	Ring gear	37	32	37	37	41
Gear O.D.		8.375				

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MODEL			19400

DRIVE UNITS – WHEELS

Type & material			Short spoke disc steel
Rim (size & flange type)		Std.	15 x 7 JK
		Opt.	None
Attachment	Type (bolt or stud)		Stud
	Circle diameter		4.75
	Number and size		5 Hex nuts 7/16-20 UNF 2-B

MODEL			

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		F 70 x 15-2 ply (4 ply rating)
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	24
		Rear	24
	Rev./Mile at 50 MPH		776
Optional	Size, ply rating, & ply		None

BRAKES – PARKING

Type of control		Grip handle control
Location of control		Center of floor console
Operates on		Rear wheels
If separate from service brakes	Type (internal or external)	Internal
	Drum diameter	6.5
	Lining size (length x width x thickness)	6.78 x 1.25 x .175

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MODEL				19400
BRAKES – SERVICE				
Type (drum or disc)				Caliper disc, 4-wheel hydraulic
Self adjusting (std., opt., N.A.)				Standard
Power brake make & type (remote, int., etc.)		Std.		--
		Opt.		Delco-Moraine vacuum power unit: integral
Effective area (sq. in.)*				78.1
Gross lining area (sq. in.)**				86.3
Swept area (sq. in.)***				461.2
Percent brake effectiveness – front				65
Drum or Disc	Diameter (nominal)	Front		11.75 x 1.25
		Rear		11.75 x 1.25
	Type and material			Cast iron
	Disc (vented or solid)			Vented
	No. pistons per caliper			4
Wheel cylinder bore	Front			1.875
	Rear			1.375
Master Cylinder	Bore			1.00
	displacement distribution	Front %		65
		Rear %		35
ic Brk. valve	Type (proportion, delay, metering, other)			Check valve
Pedal arc ratio				4.52
Line pressure at 100 lb. pedal load				576
Shoe clearance adjustment				Self-adjusting
Brake lining	Drum or Disc			Disc
	Bonded or riveted			Riveted
	Front Wheel	Material		Woven asbestos
		Size (length x width x thickness)	Prim. or outboard	5.96 x 2.21 x .41
			Second. or inboard	5.96 x 2.21 x .41
		Segments per shoe		One
	Rear Wheel	Material		Woven asbestos
		Size (length x width x thickness)	Prim. or outboard	5.96 x 2.21 x .41
			Second. or inboard	5.96 x 2.21 x .41
		Segments per shoe		One

* 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 contact circumference.)

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL					19400
STEERING					
Manual (std., opt., NA)					Standard
Power (std., opt., NA)					--
Adjustable steering wheel (tilt, swing, other)		Type and description			Telescopic steering column; 3" adjustment
		(std., opt., NA)			Optional
Wheel diameter		Manual			16.0
		Power			16.0
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Outside whl. angle with inside whl. at 20°					18.47
Manual	Gear	Type			Semi-reversible, recirculating ball nut
		Make			Saginaw
		Ratios	Gear		16.0:1
			Overall		20.2:1
	No. wheel turns				3.4
Power	Type (coaxial, linkage, etc.)				
	Make				Not
	Gear	Type			--
		Ratios	Gear		--
			Overall		Available
	Pump driven by				--
	Number wheel turns				--
Linkage	Type				Parallelogram
	Location (front or rear of wheels, other)				Rear
	Drag link (trans. or longit.)				None
	Tie rods (one or two)				Two
Steering Axis	Inclination at camber (deg.)				6-1/2 to 7-1/2
	Bearings (type)	Upper			Ball stud with non-metallic bearing surface
		Lower			Ball stud with non-metallic bearing surface
		Thrust			None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)				P1/2 to P1-1/2
	Camber (deg.)				P1/4 to P1-1/4 (a)
	Toe-in (outside track inches)				3/32 to 5/32 (a)
Steering spindle & joint type					Steering knuckle with spherical joint
Wheel Spindle	Diameter	Inner bearing			1.2493-1.2498
		Outer bearing			.7492-.7497
	Thread size				3/4-20 NEF - 3 (Modified)
	Bearing type				Taper roller

(a) Rear wheel alignment: N 1-3/8 to N 3/8
Toe-In 1/32 to 3/32

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (•)

MODEL	19400	12400

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling			Front stabilizer bar
Provision for brake dip control			Mounting angle of front upper control arm
Provision for acc. squat control			None
Special provisions for car jacking			Front: 5" forward of front edge of door opening, under frar Rear: 3" forward of wheel opening, under frame.
Shock absorber front & rear	Type		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
Spring	Type	Coil
	Material	Steel alloy
	Size (coil design height & I.D. bar length x dia.)	9.99 x 3.80 138.75 x .618
	Spring rate (lb. per in.)	284
	Rate at wheel (lb. per in.)	
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel .9375

SUSPENSION – REAR

Type and description			(A)
Drive and torque taken through			Torque control arms
Spring	Type		Multi-leaf
	Material		Chrome carbon steel
	Size (length x width, coil design height & I.D.; bar length & dia.)		46.36 x 2.25
	Spring rate (lb. per in.)		140
	Rate at wheel (lb. per in.)		123
	Mounting insulation type		Rubber mounted at differential; Vertical loading only at shac
	If leaf	No. of leaves	9
		Shackle (comp. or tens.)	Tension
Stabilizer	Type (link, linkless, frameless)		Link
	Material		.562
Track bar type			None

A-Full independent with fixed differential, transverse multi-leaf spring, lateral struts and universally-jointed axle shafts

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KE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (e)

MODEL	19400

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	All welded, full length, ladder constructed frame with 5 crossmembers

BODY – MISCELLANEOUS INFORMATION		SPORT COUPE	CONVERTIBLE
Drs. hinged (front, rr.)	Front doors	Front	
	Rear doors	None	
Type of finish (lacquer, enamel, other)		Lacquer	
Hood counterbalanced (yes, no)		No	
Hood release control (internal, external)		Internal	
Vehicle Indent. No. location		Left hand side on windshield garnish moulding	
Engine No. location		Front right side of cylinder block	
Theft protection - type		Warning buzzer sounds when key is left in "OFF" position with left front door open	
Vent window control method (crank, friction pivot)	Front	None	
	Rear	None	
S ushion type	Front	Bucket-polyurethane padding	
	Rear	None	
	3rd seat	None	
Seat back type	Front	Bucket-polyurethane padding	
	Rear	None	
	3rd seat	None	
Windshield glass type (i.e., single curved - laminated plate)		Curved-laminated plate	
Side glass type (i.e., curved - tempered plate)		Curved-tempered plate	
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Flat, tempered plate	Plastic (soft top) Curved plexiglass (aux. H.T.)
Windshield glass exposed surface area			
Side glass exposed surface area			
Backlight glass exposed surface area			
Total glass exposed surface area			

AMA Specifications—Passenger Car

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (*)

CONVENIENCE EQUIPMENT

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

		19437	19467
Power windows	Side windows	Optional	
	Vent windows	NA	
	Backlight or tailgate	NA	
Power seats (specify type as well as availability)		NA	
Reclining front seat back (R-L or both)		NA	
Front seat head restrainer (R-L or both)		Optional	
Radios (specify type as well as availability)		Optional -- AM-FM push-button	
Rear seat speaker		NA	
Power antenna		NA	
Clock		Standard	
Air conditioner (specify type and availability)		Optional -- Four - Sedan	
Speed warning device		Optional	
Speed control device		NA	
Ignition lock lamp		Standard	
Dome lamp		Standard	NA
Glove compartment lamp		Standard	
uggage compartment lamp		NA	
Underhood lamp		NA	
Courtesy lamp		Standard	
Map lamp		NA	
Auto. trans. quad. lamp		NA	
Cornering light lamp		NA	

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	17.5
		Lowest	
	Tail	Highest	25.7
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (e)

WEIGHTS

V8 ENGINE (327) Model	CURB WEIGHT - POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING WEIGHT
2-Dr. Spt. Cpe.(19437)	1570	1640	3210					3055
Convertible (19467)	1565	1655	3220					3065

Accessories & Equipment Differential Weights				Remarks
Power Windows			+ 5	
Auxiliary Top			+ 48	With folding top; 2+7=9 less folding top
427 Cu. In. V-8 (430 hp)			+ 69	
Power Brakes			+ 10	
Radio, AM/FM			+ 16	
Radio Stereo Equip.			+ 11	

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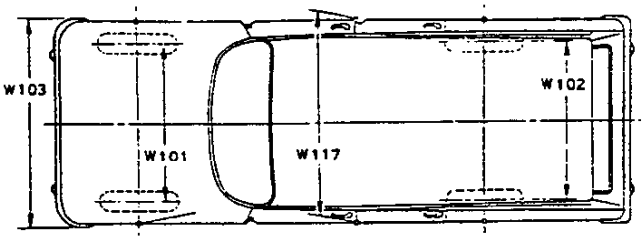
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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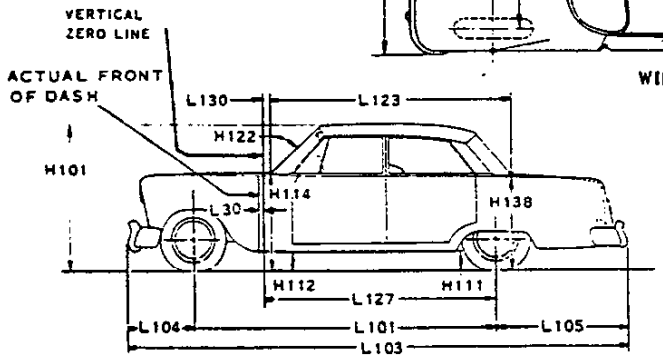

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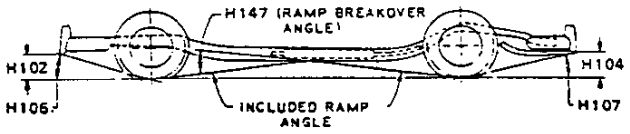
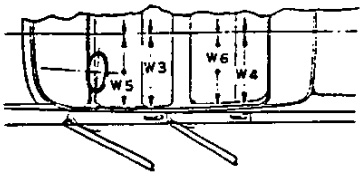


GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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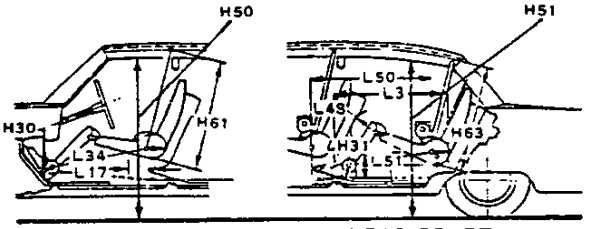
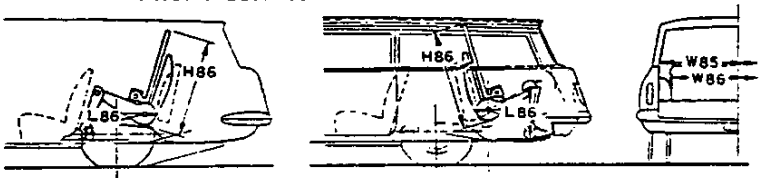
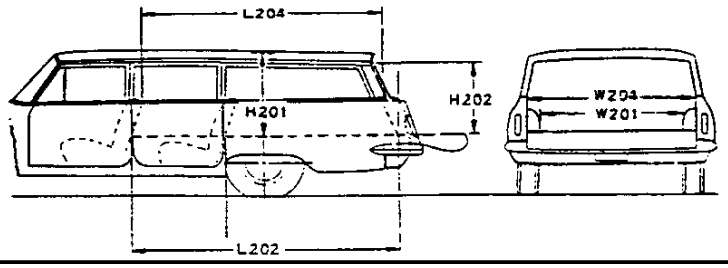


FRONT COMPT. REAR COMPT.



THIRD SEAT



AMA Specifications—Passenger Car

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1968 CORVETTE

Production: 9,936 coupe, 18,630 convertible, 28,566 total.

1968 NUMBERS

Vehicle: 194378S400001 through 194378S428566
- For convertibles, fourth digit is a 6.

Suffix:
HE: 327ci, 300hp, mt
HO: 327ci, 300hp, at
HP: 327ci, 350hp, mt, ac, ps
HT: 327ci, 350hp, mt
IL: 427ci, 390hp, mt
IM: 427ci, 400hp, mt
IO: 427ci, 400hp, at
IQ: 427ci, 390hp, at
IR: 427ci, 435hp, mt
IT: 427ci, 430hp (L88), mt, ah
IU: 427ci, 435hp, mt, ah

Block: 3914678: 327ci, 300hp, 350hp
3916321: 427ci, 390hp, 400hp, 430hp, 435hp
3935439: 427ci, 430hp, 435hp

Head: 3917215: 427ci, 390hp, 400hp
3917291: 327ci, 300hp, 350hp
3917292: 327ci, 350hp
3919840: 427ci, 435hp, ih
3919842: 427ci, 430hp, 435hp, ah

Carb: Rochester Q-jet #7028207: 327ci, 300hp, mt
Rochester Q-jet #7028208: 327ci, 300hp, at
Rochester Q-jet #7028209: 427ci, 390hp, mt
Rochester Q-jet #7028216: 427ci, 390hp, at
Rochester Q-jet #7028219: 327ci, 350hp, mt
Holley R3659A #3902353: 427ci, 400hp, 435hp, fc, rc
Holley R4054A #3925519: 427ci, 430hp (L88)
Holley R4055A #3925517: 427ci, 400hp(cc,mt), 435hp(cc), fd
Holley R4055-1A #3940929: 427ci, 400hp(cc,mt), 435hp(cc), sd
Holley R4056A #3902516: 427ci, 400hp, cc, at, fd
Holley R4056-1A #3940930: 427ci, 400hp, cc, at, sd

Distributor: 1111194: 327ci, 300hp
1111293: 427ci, 390hp,400hp
1111294: 427ci, 390hp,400hp,ig
1111295: 427ci, 430hp,ig
1111296: 427ci, 435hp,ig
1111438: 327ci, 350hp
1111441: 327ci, 350hp,ig,fd
1111475: 327ci, 350hp,ig,sd

Alternator: 1100693: 300hp, 350hp, 390hp, 400hp
1100696: 350hp, 390hp, 400hp, 430hp, 435hp, ig
1100750: All with ac

Ending Vehicle:

Sep 67: 400905	Jan 68: 410386	May 68: 420928
Oct 67: 403410	Feb 68: 412647	Jun 68: 423978
Nov 67: 405682	Mar 68: 415000	Aug 68: 428566
Dec 67: 407922	Apr 68: 417676	

Abbreviations: ac=air conditioning, ah=aluminum heads, at=automatic transmission, cc=center carburetor, ci=cubic inch, fc=front carburetor, fd=first design, hp=horsepower, ig=transistor ignition, ih=iron head, mt=manual transmission, ps=power steering, rc=rear carburetor, sd=second design.

1968 FACTS

- The 1968 Corvette exterior and interior were redesigned. Coupes featured removable roof panels and rear window.
- Automatic transmissions changed for 1968 from the two-speed Powerglide to the three-speed Turbo Hydra-Matic.
- Hidden headlights "poped up" into position, rather than rotated. The mechanism was vacuum operated instead of electric as before.
- The battery moved to a compartment behind the seats.
- Windshield wipers were hidden under a vacuum-operated panel.
- Side vent windows were eliminated starting with the 1968 Corvette.

1968 OPTIONS

RPO #	DESCRIPTION	QTY	RETAIL$
19437	Base Corvette Sport Coupe	9,936	$4,663.00
19467	Base Corvette Convertible	18,630	4,320.00
—	Genuine Leather Seats	2,429	79.00
A01	Soft Ray Tinted Glass, all windows	17,635	15.80
A02	Soft Ray Tinted Glass, windshield	5,509	10.55
A31	Power Windows	7,065	57.95
A82	Headrests	3,197	42.15
A85	Custom Shoulder Belts (std with coupe)	350	26.35
C07	Auxiliary Hardtop (for convertible)	8,735	231.75
C08	Vinyl Covering (for auxiliary hardtop)	3,050	52.70
C50	Rear Window Defroster	693	31.60
C60	Air Conditioning	5,664	412.90
F41	Special Front and Rear Suspension	1,758	36.90
G81	Positraction Rear Axle, all ratios	27,008	46.35
J50	Power Brakes	9,559	42.15
J56	Special Heavy Duty Brakes	81	384.45
K66	Transistor Ignition System	5,457	73.75
L36	427ci, 390hp Engine	7,717	200.15
L68	427ci, 400hp Engine	1,932	305.50
L71	427ci, 435hp Engine	2,898	437.10
L79	327ci, 350hp Engine	9,440	105.35
L88	427ci, 430hp Engine	80	947.90
L89	Aluminum Cylinder Heads with L71	624	805.75
M20	4-Speed Manual Transmission	10,760	184.35
M21	4-Speed Man Trans, close ratio	12,337	184.35
M22	4-Speed Man Trans, close ratio, heavy duty	80	263.30
M40	Turbo Hydra-Matic Automatic Transmission	5,063	226.45
N11	Off Road Exhaust System	4,695	36.90
N36	Telescopic Steering Column	6,477	42.15
N40	Power Steering	12,364	94.80
P01	Bright Metal Wheel Cover	8,971	57.95
PT6	Red Stripe Tires, F70x15, nylon	11,686	31.30
PT7	White Stripe Tires, F70x15, nylon	9,692	31.30
UA6	Alarm System	388	26.35
U15	Speed Warning Indicator	3,453	10.55
U69	AM-FM Radio	24,609	172.75
U79	AM-FM Radio, stereo	3,311	278.10

- A 327ci, 300hp engine, 3-speed manual transmission, vinyl interior trim, and soft top (convertible) were included in the base price.
- The M40 Turbo Hydra-Matic transmission cost $226.45 when combined with the 327ci, 300hp engine, but was $237.00 when combined with the 427ci, 390hp or 400hp engines.

1968 COLORS

CODE	EXTERIOR	QTY	SOFT TOP	INTERIORS
900	Tuxedo Black	708	Bk-W-Bg	Bk-Db-Do-Gu-Mb-R-To
972	Polar White	1,868	Bk-W-Bg	Bk-Db-Do-Gu-Mb-R-To
974	Rally Red	2,918	Bk-W-Bg	Bk-R
976	LeMans Blue	4,722	Bk-W-Bg	Bk-Mb-Db
978	International Blue	2,473	Bk-W-Bg	Bk-Mb-Db
983	British Green	4,779	Bk-W-Bg	Bk
984	Safari Yellow	3,133	Bk-W-Bg	Bk
986	Silverstone Silver	3,435	Bk-W-Bg	Bk-Db-Gu
988	Cordovan Maroon	1,155	Bk-W-Bg	Bk
992	Corvette Bronze	3,374	Bk-W-Bg	Bk-Do-To

- Suggested interiors shown. Other combinations were possible.
- All 1968 wheels were painted silver.
- In 1968, 1 Corvette had non-standard paint, or primer.

Interior Codes: Std=Bk/V, 402=Bk/L, 407=R/V, 408=R/L, 411=Db/V, 414=Mb/V, 415=Mb/L, 425=Do/V, 426=Do/L, 435=To/V, 436=To/L, 442=Gu/V.

Abbreviations: Bg=Beige, Bk=Black, Db=Dark Blue, Do=Dark Orange, Gu=Gunmetal, L=Leather, Mb=Medium Blue, R=Red, To=Tobacco, V=Vinyl, W=White.

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