

AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	Corvette	
MAILING ADDRESS	Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR	1966	ISSUED: 10-7-65
				REVISED (9)

NOTES:

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

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BODY—TYPES AND STYLE NAMES—

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

Model 19437	2-Door Sport Coupe, 2-Passenger
Model 19467	2-Door Convertible, 2-Passenger

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	327 Cu. In. V-8		427 Cu. In. V-8	
		300 HP Standard	350 HP RPO L79	390 HP RPO L36	425 HP RPO L72
Wheelbase (L101)		98.0			
Track	Front (W101)	56.8			
	Rear (W102)	57.6			
Maximum Overall Dimensions	Length (L103)	175.1			
	Width (W103)	69.2, 69.6			
	Height (H101)	19437, 49.6; 19467, 49.8			
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard		NA
	Manual - 4 speed	15	Optional		Standard
	Overdrive	15	NA		
	Automatic	16	Powerglide Optional	NA	
Axle ratio	Manual - 3 speed	17	3.36:1	NA	NA
	Manual - 4 speed	17	3.36:1	3.36:1	3.08:1 3.55:1
	Overdrive	17	NA		
	Automatic	17	3.36:1	NA	
Tire size	18	7.75 x 15			
Engine	Type, no. cyl., valve arr.	3	90° OHV V-8		
	Fuel system (Carb., other)	10	Carburetor		
	Bore and stroke	3	4.00 x 3.25		4.25 x 3.76
	Piston displ., cu. in.	3	327		427
	Std. compression ratio	3	10.5	11.0	10.25 11.0
	Max. bhp at engine rpm	3	300 @ 5000	350 @ 5800	390 @ 5200 425 @ 5600
	Max. torque at rpm	3	360 @ 3400	360 @ 3600	460 @ 3600 460 @ 4000

* - See page 4 for Optional Axle Ratios.

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GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	19437	19467
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FRONT COMPARTMENT

Shoulder room	W3		48.4
Hip room	W5		50.9
Max. eff. leg room - accelerator	L34		42.7
Effective head room	H61	37.0	38.5
H Point to Heel point	H30		3.9

REAR COMPARTMENT

Shoulder room	W4		
Hip room	W6		NA
Minimum effective leg room	L51		
Effective head room	H63		

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	10.6	8.1
Liftover height	H195		NA
Position of spare tire storage		Under fuel tank (accessible from underside of vehicle)	
Method of holding lid open			NA

STATION WAGON—THIRD SEAT

Hip room	W86		
Effective leg room	L86		NA
Effective head room	H86		
Seat facing direction			

STATION WAGON—CARGO SPACE

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

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MODEL 19400 327 Cu. In. V-8 427 Cu. In. V-8
300 HP. Std. 350 HP. RPO L79 390 HP. RPO L36 425 HP. RPO L72

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 (C/L to C/L)	4.84			
No. system	1-3-5-7			
(front to rear)	2-4-6-8			
Firing order	1-8-4-3-6-5-7-2			
Compres. ratio (nominal)	10.5	11.0	10.25	11.0
Cylinder Head Material	Cast Alloy Iron			
Cylinder Block Material	Cast Alloy Iron			
Cylinder Sleeve-Wet, dry, none	None			
Number of mounting points	Two			
Engine installation angle	3°			
Taxable horsepower	51.2		57.8	
Publishing max. bhp* & eng. RPM	300 @ 5000	350 @ 5800	390 @ 5200	425 @ 5600
Publishing max. torque* (lb. ft. @ RPM)	360 @ 3400	360 @ 3600	460 @ 3600	460 @ 4000
Recommended fuel regular - premium	Premium			
Idle speed (spec. neutral or drive)	500 In Neutral	700 In Neutral	550 In Neutral	800 In Neutral
	500 In Drive	NA		

ENGINE—PISTONS

Material	Cast Alum Alloy	Al. Impact Extrd.	Cast Alum Alloy	Al. Impact Extrd.
Description and finish	Flat Notched Head		Domed Head Valve Cutout	
Weight (piston only) oz.	21.60	20.6±	28.00	25.46
Clearance (limits)	Top land	.0365 - .0455	.0395 - .0425	.0305 - .0375
	Skirt	.0005 - .0011(a)	.0039 - .0045(b)	.0009 - .0015(c)
Ring groove depth	No. 1 ring	.2217 - .2283		.2348 - .2413
	No. 2 ring	.2217 - .2283		.2348 - .2413
	No. 3 ring	.2038 - .2103		.2183 - .2248
	No. 4 ring	.2038 - .2103		.2133 - .2148

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

(a) Measured 2.24 from top of piston

(b) Measured 2.20 from top of piston

(c) Measured 1.89 from top of piston

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		A	B	C	D
19400	327	4-Bbl	10.5	300	360	3-Speed	3.36	-	3.08	-
				@	@	4-Speed (2.52)*	3.36	-	3.08	-
				5000	3400	Powerglide *	3.36	-		
	427	4-Bbl*	11.0	350	360	4-Speed (2.52)*	3.36	3.55	-	-
@				@	4-Speed (2.20)*	3.70	4.11	-	-	
			5800	3600						
427	4-Bbl*	10.25	390	460	4-Speed (2.52)*	3.08	3.36	-	-	
			@	@	4-Speed (2.20)*	3.36	3.70	3.08	3.55	
			5200	3600						
	4-Bbl*	11.0	425	460	4-Speed (2.20)*	3.55	3.70	3.36	4.11	
			5600	4000						

A General Purpose - Standard
 B Mountain - Optional
 C Economy Cruise - Optional
 D Special Purpose - Optional

* Optional

** Positraction axles available optionally for all standard 300 HP, engine combinations and 350 HP engine with General Purpose axle. All other axle ratios are available as positraction only.

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 327 Cu. In. V-8 427 Cu. In. V-8
 MODEL 19400 300 HP. Std. 350HP RPO L79 390HP RPO L36 425HP RPO 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 - material, coating, etc.	Cast Alloy Iron, inside bevel Coating - Upper - Chrome plate on Std., Moly. filled groove on remainder (A) Lower - wear resistant on Std. & L36, Chrome plate on L79 & L72		
	Width	.0775 - .0780	.0770 - .0775	.0770 - .0775
	Gap	.013 - .023	.013 - .025	.010 - .020
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails - steel, chrome plated OD Expander - stainless steel		
	Width	.1840 - .1880 (Assembled)		.1830 - .1880 (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	None		
Clearance	In rod or piston Material			
	In piston In rod	.00015 - .00025	.00045 - .00055	.00025 - .00035 .00030 - .00040
Direction & amount offset in piston	(B)	On center	(B)	On center

ENGINE—CONNECTING RODS

Material	Drop forged steel		High alloy steel
Weight (oz.)	14.56		27.84
Length (center to center)	5.699 - 5.701		6.134 - 6.136
Bearing	Material & Type	Premium aluminum	
	Overall length	.807	
	Clearance (limits)	.0007 - .0027	.0009 - .0025 .0014 - .0030
	End play	.009 - .013	
		.016 - .020	

- (A) - 300 HP Std. Lower consists of one ring and steel expander.
- (B) - Major thrust side .055 - .065.

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 MODEL 19400 300HP Std. 350HP RPO L79 390HP RPO L36 425HP RPO L72

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 upper is sintered copper nickel backed babbit			
	Clearance	(#1-4).0008-.0034; (#5).0010-.0036		(#1-4).0013-.0029; (#5).0017-.0033	
	Journal dia. and bearing overall length	No. 1	2.3013 x .752	2.7507 x .992	2.7508 x .992
		No. 2	2.3009 x .752	2.7507 x .992	2.7508 x .992
		No. 3	2.3009 x .752	2.7501 x .992	2.7508 x .992
		No. 4	2.3009 x .752	2.7501 x .992	2.7508 x .992
		No. 5	2.3006 x 1.1824	2.7504 x 1.2525	2.7508 x 1.2525
No. 6	None				
No. 7	None				
Dir. & amt. cyl. offset		None			
Crankpin journal diameter		1.999 - 2.000		2.199 - 2.200	

ENGINE—CAMSHAFT

Location		In block above crankshaft		
Material		Cast alloy iron		
Bearings	Material	Steel backed babbit		
	Number	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		.500		

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard		NA
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
Timing marks on flywheel, damper, other		Torsional Damper		

(Continued)

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 MODEL 19400 300HP Std. 350HP RPO L79 390HP RPO L36 425HP RPO L72
 327 Cu. In. V-8 427 Cu. In. V-8

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	32° 30'	54°	56°	54°
		Closes (°ABC)	87° 30'	108°	114°	102°
		Duration-deg.	300°	342°	350°	336°
	Exhaust	Opens (°BBC)	74° 30'	102°	110°	102°
		Closes (°ATC)	45° 30'	60°	62°	54°
		Duration-deg.	300°	342°	352°	336°
Valve opening overlap		78°	114°	118°	108°	
Intake	Material		Alloy steel - alumized face; chrome flash stem on RPO L72			
	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	.0010 - .0027		
	Lift (@ zero lash)		.3987	.4472	.4614	.5197
	Outer spring press. and length	Valve closed (lb. @ in.)	78-85 @ 1.66		94-106 @ 1.88	
		Valve open (lb. @ in.)	170-180 @ 1.26		303-327 @ 1.38	
	Inner spring press. and length	Valve closed (lb. @ in.)	Spring damper			
		Valve open (lb. @ in.)	Spring damper			
Exhaust	Material		High alloy steel - alumized face; chrome flash stem on RPO L72			
	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		.0015 - .0032			
	Lift (@ zero lash)		.3987	.4472	.4800	.5197
	Outer spring press. and length	Valve closed (lb. @ in.)	78-86 @ 1.66		94-106 @ 1.88	
		Valve open (lb. @ in.)	170-180 @ 1.26		303-327 @ 1.38	
	Inner spring press. and length	Valve closed (lb. @ in.)	Spring damper			
		Valve open (lb. @ in.)	Spring damper			

ENGINE—LUBRICATION SYSTEM

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

(Continued)

* Values for 300 HP, 350 HP and 400 HP include ramps
 Values for 450 HP are given with lash of .024 intake and .028 exhaust

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 MODEL 19400 300HP Std. 350HP RPO L79 390HP RPO L36 425HP RPO L72

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	30-45 PSI @ 1500 RPM 50-75 PSI @ 2000 RPM
Oil pressure sending unit (elect. or mech.)	Mechanical (direct pressure to Bourdon Tube)
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Element
Capacity of crankcase, less filter-refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	32° F and above - SAE 20W, SAE 20 or SAE 10W-30 0° F and above - SAE 10W or SAE 10W-30 Below 0° F - SAE 5W or SAE 5W-20
Engine Service Requirement (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 thickness)	Branch 2.50 x .072 - .092 Main 2.50 x .084 - .104 laminated
Tail pipe diameter (O.D. & wall thickness)	2.00 x .023

ENGINE—CRANKCASE VENTILATION SYSTEM

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

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

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MODEL	19400	300HP	327 Cu. In. V-8 Std.	350HP	RPO L79	427 Cu. In. 425HP RPO L37

ENGINE—EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Air Injection					
Air Injection Pump	Type	Semi-articulated vane type					
	Displacement	19.3 cubic inches					
	Drive ratio	1.25:1					
	Drive type	Crankshaft Pulley					
	Relief valve (type)	Pressure (plate type)					
	Filter (describe)	None (clean air drawn from air cleaner)					
Air Injection System	Air distribution (head, manifold, etc.)	Manifold					
	Point of entry	Exhaust ports					
	Injection tube I.D.	.2565					
	Check valve type	Pressure (plate type)					
	Backfire protection (type)	Vacuum actuated anti-backfire valve					
Carburetor	Make	Holley					
	Model	1890499		3892341			
	Barrel size	1.562 Primary & Secondary					
	Idle speed	Drive	500 Pwr/Gld. Tr.	NA	550 Pwr/Gld. Tran.		
	Neutral	500 Man. Tr.	700 Man. Tran.	550 Manual Tran.			
Distributor	Aux. Adv. Systems (type)						
	Make						
	De. so-Remy						
	Model		(a)		1111153 1111156 1111141		
	Cent'fgal adv. in crank degrees @ eng. rpm.	Start (rpm)		900			
		Intermed. points deg. @ rpm					
		Max. deg @ rpm.		30 @ 5100	30 @ 5100	30 @ 5000	
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in Hg)		5"	4"	6"	
		Intermed. points deg. @ in. Hg					
		Max. deg. @ in.		15 @ 12"	16 @ 7"	15 @ 12"	
Vacuum Source							
Timing - Crank degrees @ rpm		6° BTDC @ 500		10° BTDC @ 700		4° BTDC @ 550	
Cooling System (describe changes)							
Exhaust System (describe changes)							

(a) Powerglide Model Nos. 327 Cu. In. Std. (1111117)

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MODEL 19400 327 Cu. In. V-8 427 Cu. In. V-8
 300HP. Std. | 350HP RPO L79 | 390HP RPO L36 | 425HP RPO L72

ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor
Fuel Tank	Refill capacity (gals.)	20 (Approximately) (A)
	Filler location	Center at rear deck
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Lower right front of engine
	Pressure range	5.25-6.50 PSI 5.00-6.50 PSI 5.50-7.00 PSI
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Fine mesh plastic strainer in gas tank and sintered bronze filter in carburetor inlet
	Locations	
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Oil-wetted paper element
	Standard	
	Optional	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
19400	327 300HP	3-Speed 4-Speed Powerglide	Holley	3884505	One; Four Barrel	1.562 Prim. @ Secn'd.
	327 350HP	3-Speed 4-Speed	Holley	3884508	One; Four Barrel	1.562 Prim. @ Secn'd.
	427 390HP	4-Speed	Holley	3882835	One; Four Barrel	1.562 Prim. @ Secn'd.
	427 425HP	4-Speed	Holley	3886101	One; Four Barrel	1.686 Prim. @ Secn'd.
(A) - 36 gallon fiberglass tank available optionally						

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 MODEL 19400 300HP Std. | 327 Cu. In. V-8 | 350HP RPO L79 | 390HP RPO L36 | 425HP RPO L72 | 427 Cu. In. V-8

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure with surge tank			
Radiator cap relief valve pressure	15± 1 PSI			
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at (°F)	177° - 183° F		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM @ 1000 pump rpm	57 @ 4400	82 @ 5200	
	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
	Bearing type	Double row ball		
By-pass recirculation type (internal, external)	External			
Radiator core type (cellular, tube and fin, other)	Cross flow			
Cooling system capacity	With heater (qt.)	16	23	
	Without heater (qt.)	15	22	
	Opt. equipment-specify (qt.)			
Water jackets full length of cylinder (yes, no)	Yes			
Water all around cylinder (yes, no)	Yes			
Radiator hose	Lower	Number and type (molded, straight)	One, molded	
		Inside diameter	1.75	
	Upper	Number and type (molded, straight)	One, molded	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	One, molded
		Inside diameter	None	.725 - .765
Fan	Number of blades & spacing	5, staggered		
	Diameter	17.12		
	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	DE	GH
	Generator or alternator	A	D	G
	Water Pump	A	DE	GH
	Power Steering	B	F	I
	Air Conditioning	C	C	J

* 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	58.00	54.00	34.40	45.00	56.00	34.40	43.85	47.00	
Width						.380					

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MODEL 19400 300HP Std. | 350HP RPO L79 | 390HP RPO L36 | 425HP RPO L72

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco-Remy 1983506				
	Voltage Rtg. & Total Plates	12 Volt-66 Plate				
	SAE Designation & Amp Hr. Rtg.	61 Amp/Hr. @ 20 Hr. rate				
	Location	Right Rear Engine Compartment				
	Terminal grounded	Negative				
Generator or Alternator	Make	Delco-Remy				
	Model	1100693				
	Type and rating	Diode rectified 9-37 Amps				
	Output at engine idle (neutral)	13 Amps	22 Amps	16 Amps	24 Amps	
	Ratio—Gen. to Cr/s rev.	2.46:1				
Regulator	Make	Delco-Remy				
	Model	1119515				
	Type	Vibrator				
	Cutout relay	Closing voltage @ generator rpm				
		Reverse current to open				
	Regulated	Voltage	13.8-14.8 @ 85°F			
		Current				
	Voltage test conditions	Temperature	Operating			
Load		3-8 Amps				
Other		None				

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco-Remy				
	Model	1107320		1107352		
	Rotation (drive end view)	Clockwise				
	Engine cranking speed					
	Test conditions	Engine at operating temperatures				
	No load test	Amps	65-100			
		Volts	10.6			
RPM (min)		3600-5100				
Motor control	Switch (solenoid, manual)	Solenoid				
	Starting procedure	3-Spd & 4-Spd --- Place gearshift in neutral & depress clutch to floor. Powerglide --- Place control lever in "N" or "P" position. Initial Start --- Press accelerator pedal to floor once to set automatic choke, then release. Turn ignition to START-release as soon as engine starts.				

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR <u>Corvette</u>	MODEL YEAR <u>1966</u>	DATE ISSUED <u>10-7-65</u> REVISED ^(*)	
	396 Cu. In. V-8	427 Cu. In. V-8	
MODEL <u>19400</u>	325 HP. RPO L35	350 HP. RPO L79	390 HP. RPO L36
			425 HP. RPO L72

ELECTRICAL—STARTING SYSTEM (cont.)

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

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Optional		Mandatory	
	Make		Delco-Remy			
	Model		1115202		1115210	
	Amps	Engine stopped	4.0			
Engine idling		1.8				
Distributor	Make		Delco-Remy			
	Model		1111153	1111156	1111141	1111093
	Cent'gal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	900			
		Intermediate points deg. @ rpm.				
		Max. deg. @ rpm.	30 @ 5100	30 @ 5100	30 @ 5000	28 @ 4600
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6"	4"	6"	6"
		Intermediate points, deg. @ in. Hg.				
		Max. deg. in. Hg.	15 @ 12"	16 @ 7"	15 @ 12"	15 @ 12"
	Breaker gap (in.)		.019			
	Cam angle (deg.)		23° - 32°			
Breaker arm tension (oz.)		19 - 23 oz				
Timing	Crankshaft deg. @ rpm.		6° BTDC @ 500	10° BTDC @ 700	4° BTDC @ 550	8° BTDC @ 800
	Mark location		Torsional Damper			
Spark Plug	Make		AC Spark			
	Model		AC 44	AC 43N		
	Thread (mm)		14			
	Tightening torque (lb. ft.)		25			
	Gap		.033 - .038			
Cable	Conductor type		Linen core impregnated with electrical conducting material			
	Insulation type		Rubber with neoprene jacket			
	Spark plug protector		Hypalon jacket			

AMA Specifications—Passenger Car

MAKE OF CAR Corvette **MODEL YEAR** 1966 **DATE ISSUED** 10-7-66 **REVISED** ^(*)
MODEL 19400 396 Cu. In. V-8 427 Cu. In. V-8
325HP RPO L35 | 350HP RPO L79 | 390HP RPO L36 | 425HP RPO L72

ELECTRICAL—SUPPRESSION

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

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speedometer	Make	AC
	Trip odometer (yes, no)	Yes
	Charge indicator—type	Ammeter
	Temperature indicator—type	Electric gage
	Oil pressure indicator—type	Bourdon tube gage
	Fuel indicator—type	Electric gage
	Other	Mechanical tachometer
Windshield wiper	Make	Deico
	Type—Standard	Electric two speed
	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	None
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	8.00-11.00 @ 12.5 V

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

Make & type	Chevrolet, single dry disc, centrifugal			
Type pressure plate springs	Circular plate diaphragm, bent finger design			
Total spring load (lb.)	2100-2300	2300-2600	2600-2800	
No. of clutch driven discs	One			
Clutch facing	Material	Woven type asbestos		
	Outside & inside dia.	10.0 & 6.5	10.5 & 6.5	
	Total eff. area (sq. in.)	90.7	103.5	
	Thickness	1.35 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		

A.M.A Specifications—Passenger Car

MAKE OF CAR <u>Corvette</u>	MODEL YEAR <u>1966</u>	DATE ISSUED <u>10-7-65</u>	REVISED ^(*)
MODEL <u>19400</u>	327 Cu. In. V-8 300 HP Std. 3-Spd. 4-Spd.	427 Cu. In. V-8 350 HP RPO L79 4-Spd. 4-Spd.	RPO L36 RPO L72 4-Spd. 4-Spd.

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard	NA
Manual 4-speed (std. or opt.)	Optional	Standard
Manual with overdrive (std. or opt.)	NA	
Automatic (std. or opt.)	Powerglide optional with 300 HP. only	

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	3	4				
Transmission ratios	In first	2.54	2.52	2.20	2.52	2.20
	In second	1.50	1.88	1.64	1.88	1.64
	In third	1.00	1.46	1.27	1.46	1.27
	In fourth		1.00	1.00	1.00	1.00
	In reverse	2.63	2.59	2.26	2.59	2.26
Synchronous meshing, specify gears	All forward gears					
Shift lever location	Floor mounted					
Lubricant	Capacity (pt.)	2	2.5			
	Type recommended	Military spec. Mil-L-2105-B				
	SAE viscosity number	Summer	SAE 80			
		Winter	SAE 80			
Extreme cold		SAE 80				

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

AMA Specifications—Passenger Car

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MODEL 19400

DRIVE UNITS—AUTOMATIC TRANSMISSION

Available with 300 HP. standard engine only

Trade name	Powerglide	
Type describe	Torque converter with planetary gears	
Method of Selection (Lever, Push Button or other)	Lever (floor mounted)	
Selector Pattern	P-R-N-D-L	
List gear ratios Selector Pattern and indicate which are used in each selector position	Drive 1.76 to 1.1 Low & Reverse 1.76	
Max. upshift speeds—drive range	65	
Max. kickdown speeds—drive range	61	
Torque converter	Number of elements	3
	Max. ratio at stall	2.10
	Type of cooling (air, liquid)	Air
Lubricant	Capacity—refill (pt.)	3
	Type recommended	A suffix A
Special transmission features		

DRIVE UNITS—PROPELLER SHAFT

Number used	One	
Type (exposed, torque tube)	Tubular, exposed	
Outer diameter x length* x wall thickness	Manual 3-speed transmission	2 X 29.90 X .095
	Manual 4-speed transmission	2 X 29.90 X .095
	Overdrive transmission	NA
	Automatic transmission	2 X 29.90 X .095

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ⁽¹⁾

MODEL _____

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	
Universal joints	Make	Chevrolet
	Number used	2
	Type (ball and trunnion, cross, other)	Cross
	Bearing	Type (plain, 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—REAR AXLE

Description	Semi-floating, overhung pinion gear		
Limited Slip differential, type	Dual disc clutches		
Drive Pinion Offset	1.5		
No. of differential pinions	2		
Ring gear O.D. (std. ratio)	8.375		
Pinion adjustment (shim, other)	None		
Pinion bearing adj. (shim, other)	Shim		
Wheel bearing type	Taper roller		
Lubricant	Capacity (qt.)	3.7	
	Type recommended	Military Spec. MIL-L-2105-B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio	3.36	3.70
No. of teeth	Pinion	11
	Ring gear	37

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MODEL _____

DRIVE UNITS—WHEELS

Type & material	Short spoke disc steel	
Rim (size and flange type)	Std.	15 x 5.5K
	Opt.	15 x 6L, integral ribbed aluminum casting
Attachment	Type (bolt or stud)	15 x 5.5K, bolt; 15 x 6L, adapter & spinner cap
	Circle diameter	4.75
	Number and size	15 x 5.5K, 5 hex nuts, 7/16-20 UNF-2B; 15 x 6L, 2-5/8-8 UN-2B

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.75 x 15-4PR, highway tubeless, BW
	Type - Nylon, etc.	Rayon
Rev/mile at 50 mph.		776
Inflation press. (cold)	Front	24
	Rear	24
Optional tires - size and ply		7.75 x 15-4PR, rayon, W/W 7.75 x 15-4PR (4 ply) nylon (gold stripe)

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)	Caliper disc, 4-wheel hydraulic		
Self adjusting (std., opt., N.A.)	None required		
Hydraulic system type (single, dual, etc.)	Single		
Power brake make & type (remote, integral, etc.)	Delco-Moraine vacuum power unit assists master cylinder: integral		
Effective area (sq. in.) *			
Gross lining area (sq. in.) **			
Swept drum area (sq. in.) ***	461.2		
Percent brake effectiveness—front	65.0		
Drum or Rotor	Diameter	Front	Disc 11.75
		Rear	Disc 11.75
	Type and material	Cast iron	
	Rotor (vented or solid)	Vented	
No. pistons per caliper	4		
Wheel cylinder bore	Front	1.875	
	Rear	1.375	
Master cylinder bore	1.00		
Available pedal travel	5.00		
Line pressure at 100 lb. pedal load	500		
Shoe clearance adjustment	None required		

* Excludes rivet holes, grooves, chamfers, etc.

(Continued)

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

*** Total swept area for four brakes:

Widest lining contact width for each brake x its drum circumference.

AMA Specifications—Passenger Car

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

MODEL _____

BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc		Disc
	Bonded or riveted		Riveted
	Front Wheel	Material	Woven asbestos
		Size (length x width x thickness)	Prim. or out-board Second. or in-board
		Segments per shoe	One per wheel
	Rear Wheel	Material	Woven asbestos
		Size (length x width x thickness)	Prim. or out-board Second. or in-board
		Segments per shoe	One per wheel

BRAKES—PARKING

Type of control	Mechanical	
Location of control	T handle at right of steering column	
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)	6.77 x 1.25 x .175

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)

All welded, full length, ladder constructed frame with 5 crossmembers. Side rails and intermediate crossmembers box construction; rear crossmember "C" shaped. Front crossmember box-girder construction.

STEERING

Manual (std., opt., NA)	Standard			
Power (std., opt., NA)	Optional			
Adjustable steering wheel (tilt, swing, other)	Type and description	Telescoping steering column, driver adjustable		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	16.0		
	Power	16.0		
Turning diameter	Outside front	Wall to wall (l. & r.)	41.6	
		Curb to curb (l. & r.)	39.9	
	Inside rear	Wall to wall (l. & r.)	25.6	
		Curb to curb (l. & r.)	25.6	
Outside wheel angle with inside wheel at 20°		18.5°		
Manual	Gear	Type	Semi-reversible, recirculating ball nut	
		Make	Saginaw	
		Ratios	16.0:1	
	No. wheel turns	Overall	Street, 20.2:1	Fast, 17.6:1
			Street, 3.4	Fast, 2.92

(Continued)

AMA Specifications—Passenger Car

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

MODEL _____

STEERING (cont.)

Power	Type (coaxial, linkage, etc.).		Linkage						
	Make		Saginaw						
	Gear	Type	Same as manual						
		<table border="1"> <tr> <td> <table border="1"> <tr> <td>Ratios</td> <td>Gear</td> </tr> <tr> <td></td> <td>Overall</td> </tr> </table> </td> <td>16.0:1</td> </tr> <tr> <td></td> <td>17.6:1</td> </tr> </table>	<table border="1"> <tr> <td>Ratios</td> <td>Gear</td> </tr> <tr> <td></td> <td>Overall</td> </tr> </table>	Ratios	Gear		Overall	16.0:1	
	<table border="1"> <tr> <td>Ratios</td> <td>Gear</td> </tr> <tr> <td></td> <td>Overall</td> </tr> </table>	Ratios	Gear		Overall	16.0:1			
	Ratios	Gear							
	Overall								
	17.6:1								
Pump driven by		Crankshaft pulley							
Number wheel turns		2.92							
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 or camber (deg.)		6-1/2 to 7-1/2						
	Bearings (type)	Upper	Ball stud with non-metallic bearing surfaces						
		Lower	Ball stud with non-metallic bearing surfaces						
		Thrust	None						
Wheel Alignment (range at curb weight and preferred) (A)	Caster (deg.)		P1/2 to P1-1/2						
	Camber (deg.)		P1/4 to P1-1/4						
	Toe-in (outside track inches)		3/16 to 5/16 total						
	Steering spindle & joint type			Steering knuckle with spherical joints					
Wheel spindle	Diameter	Inner bearing	1.2493-1.2498						
		Outer bearing	.7492-.7497						
	Thread size		3/4-20 NEF-3 (Mod)						
	Bearing type		Taper roller						

(A) Rear wheel alignment; camber N0 to P1; toe-in 1/16 to 3/16 total

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1966 DATE ISSUED 10-7-65 REVISED ^(A)MODEL 327 V-8 427 V-8**SUSPENSION—GENERAL**

(See Supplemental page for details on Air Suspension)*

Provision for car leveling		Front stabilizer bar
Provision for brake dip control		Mounting angle of front upper control arm
Provision for acc. squat control		None
Special provisions for car jacking		Front: 5" forward of front edge of door opening, under frame Rear: 3" forward of wheel opening, under frame.
Shock absorber: front & rear	Type	Direct, double-acting, hydraulic, with freon envelope
	Make	Delco
	Piston dia.	1.00
Other special features		Full independent rear suspension; variable rate front spring

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, variable rate	
	Material	Steel alloy	
	Size (coil design height & I.D.; bar length x dia.)	8.56 x 3.80 (theo); 168.50 x 6.00 (theo)	
	Spring rate (lb. per in.)	195	
	Rate at wheel (lb. per in.)	80	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	.750	.875

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 mtd. at diff.; vertical loading only at shackles	
	If leaf	No. of leaves	9
Stabilizer	Type (link, linkless, frameless)	None	Link
	Material	--	.562
Track bar type		None	

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

AMA Specifications—Passenger Car

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

MODEL 19437 19467

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front	
	Rear doors	NA	
Type of finish (lacquer, enamel, other)		Lacquer	
Hood counterbalanced (yes, no)		No	
Hood release control (internal, external)		Internal	
Vehicle Ident. No. location		1--Right side of hinge pillar cross brace, under glove box 2--With engine no.	
Engine No. location		Front right side of cylinder block	
Theft protection - type		Outside door key locks	
Vent window control method (crank, friction pivot)	Front	Crank	
	Rear	NA	
Seat cushion type	Front	Bucket-polyurethane padding	
	Rear	NA	
	3rd seat	NA	
Seat back type	Front	Bucket-polyurethane padding	
	Rear	NA	
	3rd seat	NA	
Windshield glass type (i.e., single curved - laminated plate)		Single curved-laminated safety plate	
Side glass type (i.e., curved - tempered plate)		Compound curved-solid safety plate	
Backlight glass type (i.e., compound curved - tempered plate, three piece)		19467 Soft top, flat flexible plastic, 1-piece 19467 Hardtop, curved plexiglass, 1-piece 19437 Compound curved, solid safety plate, 1-piece	
Windshield glass exposed surface area		789.7	
Side glass exposed surface area		620.1	550.1
Backlight glass exposed surface area		821.5	440.5
Total glass exposed surface area		2231.3	1780.3

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	24.4
		Lowest	24.4
	Tail	Highest	21.8
		Lowest	21.8
Distance from C/L of car to center of bulb	Headlamp	Inside	15.4
		Outside *	21.7
	Tail	Inside	19.0
		Outside	24.0
	Directional	Front	28.3
		Rear	19.0, 24.0

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

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

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		NA	
Front seat headrest		Optional	
Radios (specify type as well as availability)		AM-FM pushbutton, all models	
Rear seat speaker		NA	
Power Antenna		Included with radio option	
Clock		Standard	
Air Conditioner (specify type and availability)		Four seasons, all models	
Speed warning device		NA	
Speed control device		NA	
Ignition lock lamp		Standard	
Back up lamp		Standard	
Dome lamp		Standard	NA
Glove compartment lamp		Standard	
Prkg. brake signal lamp		Standard	
Luggage compartment lamp		NA	
Underhood lamp		NA	
Courtesy lamp		Standard	
Map lamp		NA	
Auto. trans. quad. lamp		NA	
Emergency flasher lamp		Optional	
Cornering light lamp		NA	
Instrument Panel Pad		Standard	
Padded Sun Shades		Standard	
Left Hand Outside Mirror		Standard	

AMA Specifications—Passenger Car

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

WEIGHTS

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
19437			3140					2985
19467			3160					3005
Accessories & Equipment Differential Weights								Remarks
Automatic trans.	+ 28							
4-Speed trans.	+ 8							
Engine 427 V-8	+200							
Power brakes	+ 12							
Power steering	+ 21							
Air conditioning	+ 88							
Auxiliary top	+ 58							
Radio	- 20							
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