

AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	CORVETTE
MAILING ADDRESS		MODEL YEAR	1967
		ISSUED:	10-7-66
		REVISED	001

NOTES:

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

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BODY—TYPES AND STYLE NAMES—

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

	327 Cu.In.		427 Cu.In.		
	V8-300 HP Standard	V8-350 HP Opt (L79)	V8-390 HP Opt (L36)	V8-400 HP Opt (L68)	V8-435 HP Opt (L71)
2-Door Sport Coupe, 2-Pass			19437		
2-Door Convertible, 2-Pass			19467		

INTERIOR DIMENSIONS

FRONT COMPARTMENT

CODE	DESCRIPTION	19437	19467	19467
		COUPE	SOFT TOP	HARDTOP
H5	H point to ground		15.4	
H30	H point to heel point		7.3	
H37	Headlining to roof height	.4	—	.3
H54	D point to tunnel		1.9	
H58	H point rise		.3	
H61	Effective headroom	37.0	38.5	37.2
H63	D point differential, side to center		13.1	
H67	Depressed floor covering thickness		.3	
H70	Body zero line to H point (vert.)		7.7	
L17	H point travel		4.0	
L31	Body zero line to H point (horiz.)		44.5	
L34	Maximum effective leg room - accelerator		42.7	
L40	Back angle (degrees)		28	
L42	Hip angle (degrees)		102	
L44	Knee angle (degrees)		135	
L46	Foot angle (degrees)		82	
L53	H point to accelerator floor point		35.8	

SEAT AND ENTRANCE

H3	Seat chair height		9.0	
H11	Entrance height	31.4		30.2
H26	Interior body height, M/M @ car centerline	36.2	36.9	35.8
H27	Interior body, M/M @ C/LO	40.7	41.6	40.6
H32	Seat cushion deflection		3.1	
H50	Upper body opening to ground	46.8		45.6
W1	Hat room	45.1		39.3
W3	Shoulder room		48.4	
W5	Hip room		46.9	
W16	Seat width (each seat)		20.6	
L14	Seat back thickness		3.9	
L18	Entrance foot clearance		16.5	

VISION AND CONTROL

H6	H point to W/S bottom DLO		19.9	
H13	Steering wheel thigh clearance		4.5	
H18	Steering column angle (degrees) horizontal		16	
H25	Belt height		18.0	
H49	H point to top of steering wheel		22.8	
H64	H point to W/S upper DLO		30.6	
W7	Steering wheel center to car centerline		12.8	
W9	Steering wheel maximum O.D.		16.0	
W122	Tumble-home (degrees)		20.0	
L7	Steering wheel torso clearance		13.2	
L13	Brake pedal knee clearance		24.6	
L49	H point to W/S upper DLO		16.4	
L52	Brake pedal to accelerator		2.8	

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H50	Upper body opening to ground	46.8		45.6
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W5	Hip room		46.9	
W16	Seat width (each seat)		20.6	
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GENERAL SPECIFICATIONS—DIMENSIONS

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

(Supplemental data available on request)				
MODEL	SAE Ref. No.	19437 Coupe	19467 Soft-Top	19467 Hard-Top

FRONT COMPARTMENT

Shoulder room	W3	48.4	
Hip room	W5	46.9	
Max. eff. leg room - accelerator	L34	42.7	
Effective head room	H61	37.0	37.2
H Point to Heel point	H30	7.3	

REAR COMPARTMENT - NOT APPLICABLE

Shoulder room	W4	---
Hip room	W6	---
Minimum effective leg room	L51	---
Effective head room	M63	---

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	10.6	8.1
Liftover height	H195	---	
Position of spare tire storage		Under Fuel Tank (accessible from underside of vehicle)	
Method of holding lid open		Gravity	

STATION WAGON—THIRD SEAT - NOT APPLICABLE

Hip room	WB6	---
Effective leg room	LB6	---
Effective head room	MB6	---
Seat facing direction		---

STATION WAGON—CARGO SPACE - NOT APPLICABLE

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	---
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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MAKE OF CAR	CORVETTE	MODEL YEAR	1967	DATE ISSUED	10-7-66	REVISED ^(a)
MODEL	19400	327 Cu.In. V-8 300 HP Standard	350 HP Opt (L79)	390 HP Opt (L36)	427 Cu.In. V-8 400 HP Opt (L68)	435 HP Opt (L71)

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)		4.4		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				
Cylinder Sleeve-Wet, dry, none		None				
Number of mounting points	Front	Two				
	Rear	One				
Engine installation angle		3°				
Taxable $\frac{Dis^2 \times No. Cyl.}{horsepower}$ 2.5		51.2		57.8		
Publishing max. bhp* @ eng. RPM		300 @ 5000	350 @ 5800	390 @ 5400	400 @ 5400	435 @ 5800
Publishing max. torque* (lb. ft. @ RPM)		360 @ 3400	360 @ 3600	460 @ 3600	460 @ 3600	460 @ 4000
Recommended fuel regular - premium		Premium				
Idle speed (spec. neutral or drive)	Manual	500 in neutral	700 in neutral	550 in neutral	750 in neutr	
	Automatic	500 in drive	NA	550 in drive	NA	

ENGINE—PISTONS

Material	Cast 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	.0395-.0425	.0305-.0375
	Skirt	Top	.0005-.0011(b)	.0024-.0030(c)
		Bottom	.0009-.0015 (d)	.0040-.0046(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	.2133-.2148
	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 1.89 from top of piston

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ^(a)

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

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	Cast alloy iron; inside bevel on 327 cu.in.; no bevel on 427 cu.		
	material, coating, etc.	chrome plate coating on 327(300HP); Molybdenum inlay on remainder		
	Lower	Chrm plate on 327(350HP) & 427(435HP); remainder wr.resistant ctr		
	Width	(a)	(b)	.0770-.0775
Oil	Gap	.013-.023	(c)	.010-.020
	Description -	Multi-piece (2 rails and one spacer expander)		
	material, coating, etc.	Rails-steel, chrome plated OD		
		Expander - stainless steel		
Expanders	Width	.1870-.1890		
	Gap	.015-.055		.010-.030
		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-.00040
	In rod		- None			
Direction & amount offset in piston			(d)	On center	(d)	On center

ENGINE—CONNECTING RODS

Material		Drop forged steel			High alloy steel
Weight (oz.)		21.60	20.64	28.00	24.67
Length (center to center)		5.699-5.701		6.130-6.140	
Bearing	Material & Type	Premium Aluminum			
	Overall length	.807		.857	
	Clearance (limits)	.0007-.0027		.0009-.0029	.0014-.0034
	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-.023
 (d) - Major thrust side .055-.065

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		327 Cu. In. V-8		427 Cu. In. V-8			
		300 H.P.	350 H.P.	390 H.P.	400 H.P.	435 H.P.	
MODEL	19400	Standard	Opt. (1.79)	Opt. (1.36)	Opt. (1.68)	Opt. (1.71)	

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. (Premium aluminum on lower (#5) 327-300 HP)		
	Clearance		(a)	(b)	(c)
	Journal dia. and bearing overall length	No. 1	2.3003 x .752	2.7507 x .992	2.7510 x .992
		No. 2	2.3004 x .752	2.7507 x .992	2.7510 x .992
		No. 3	2.3004 x .752	2.7505 x .992	2.7505 x .992
		No. 4	2.3004 x .752	2.7505 x .992	2.7505 x .992
		No. 5	2.3009 x 1.177	2.7506 x 1.2525	2.7506 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 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	.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		

- (a) - #1 - (.0008-.0020); #2, 3 & 4 - (.0008-.0024) (Continued) #5 - (.0015 - .0031)
 (b) - #1 & 2 - (.0010-.0022); #3 & 4 - (.0013-.0025); #5 - (.0015-.0031)
 (c) - #1, 2, 3 & 4 - (.0013-.0025); #5 - (.0015-.0031)

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MAKE OF CAR	CORVETTE	MODEL YEAR	1967	DATE ISSUED	10-7-66	REVISED	(*)
MODEL	19400	327 Cu. In. V-8 300 HP Standard	350 HP Opt. (L79)	390 HP Opt. (L36)	427 Cu. In. V-8 400 HP Opt. (L68)	435 HP Opt. (L71)	

ENGINE—VALVE SYSTEM (cont.)

Timing ★	Intake	Opens (°BTC)	38°	54°	56°	44°
		Closes (°ABC)	92°	108°	114°	92°
		Duration-deg.	310°	342°	350°	316°
	Exhaust	Opens (°BBC)	88°	102°	110°	86°
		Closes (°ATC)	52°	60°	62°	36°
		Duration-deg.	320°	342°	352°	302°
	Valve opening overlap		90°	114°	118°	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	.0010 - .0027		
	Lift (@ zero lash)		.3900 .4472	.4614	.5197	
	Outer spring press. and length	Valve closed (lb. @ in.)	76-84 @ 1.70	94-106 @ 1.88		
		Valve open (lb. @ in.)	180-192 @ 1.25	303-327 @ 1.38		
	Inner spring press. and length	Valve closed (lb. @ in.)	Spring damper			
		Valve open (lb. @ in.)	Spring damper			
Exhaust	Material		High alloy steel; aluminized face; also chrome flash stem on L71 &			
	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)		.4100 .4472	.4800	.5197	
	Outer spring press. and length	Valve closed (lb. @ in.)	76-84 @ 1.70	94-106 @ 1.88		
		Valve open (lb. @ in.)	180-192 @ 1.25	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 all engines except 435 HP include ramps
Values for 435 HP are given with lash of .024 intake and .028 exhaust

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MODEL 19400 327 Cu. In. V-8 300 H.P. Standard 350 H.P. Opt. (L79) 427 Cu. In. V-8 390 H.P. Opt. (36) 400 H.P. Opt. (L68) 435 H.P. Opt. (L7)

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	30-45 PSI @ 1500	50-75 PSI @ 2000
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.)	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 temperature below freezing)	
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. (Branch)	2.50 x .067 - .081 (a)	2.50 x .072 - .092
(O.D., wall thickness) Main	2.50 x .084 - .104 laminated (b)	
Tail pipe diameter (O.D. & wall thickness)	2.00 x .023	

ENGINE—CRANKCASE VENTILATION SYSTEM

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

(a) 2.00 diameter on Powerglide

(b) .067 - .081 wall thickness on 327 Cu. In. Powerglide

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MODEL 19400 327 Cu. In. V-8 427 Cu. In. V-8
 300 HP 350 HP 390 HP 400 & 435 HP
 Mnl. Tr. | P/G Tr. | Mnl. Tr. | Mnl. Tr. | P/G Tr. | Mnl. Tr. | P/G Tr. *

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	3906635		3906637		(a)	
	Barrel size	1.562 Primary & Secondary				1.50 Prim; 1.75 Sec.	
	Idle speed	Drive	600	-	550	-	600
	Neutral	700	-	750	700	750	-
Aux. Adv. Systems (type)		None					
Make		Delco Remy					
Model		1111194	1111117	1111196	1111247	1111247	1111258/c
Distributor	Cent'ipal adv. in crank degrees @ eng. rpm.	Start (rpm)	900				
		Intermed. points deg. @ rpm	15@1500	25@1500	15@1500	17 @ 2000	None
		Max. deg. @ rpm.	30@5100	40@5100	30@5100	32 @ 5000	30@3800
	Vacuum adv. in crank degrees @ eng. rpm.	Start (in Hg)	6	4	7	8	
		Intermed. points deg. @ in. Hg	None				
		Max. deg. @ in.	15 @ 12	16@7	12 @ 12	15@15.5	
Vacuum Source		Carburetor					
Timing - Crank degrees @ rpm @ Idle		6 BTDC	4 ATDC	10 BTDC	4 BTDC	5 BTDC	
Cooling System (describe changes)		195° Thermostat					
Exhaust System (describe changes)		None					

* Available with 400 HP engine only

(a) 3 x 2 Carburetor—Two Secondary #3902353; One Primary #3902355

(b) Model 1111247 is used with 400 HP Mnl. Trans. & P/G Trans.

(c) Model 1111258 (Transistorized) used with 435 HP only

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 300 H.P. Standard 350 H.P. Opt. (L79) 390 H.P. Opt. (L36) 400 H.P. Opt. (L68) 435 H.P. Opt. (L71)

ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.

Carburetor

Fuel Tank	Refill capacity (gals.)	20 (approximately)
	Filler location	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
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Fine mesh plastic strainer in gas tank
	Locations	and sintered bronze filter in carburetor inlet
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Standard Oil-wetted paper element Polyurethane Optional

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
19400	327 300hp	3-Spd & 4-Spd Powerglide	Holley	3906631	One; 4-Bbl	1.561 Prim & Sec
	327 350hp	4-Spd.	Holley	3906631	One; 4-Bbl	1.561 Prim & Sec
	427 390hp	4-Spd. Powerglide	Holley	3906633	One; 4-Bbl	1.561 Prim & Sec
	427 400hp	4-Spd. Powerglide	Holley	3902355 (Prim.) 3902353 (Secondary)	Three; 2-Bbl (1-Prim) (2-Sec.)	Prim 1.50 Sec. 1.75
	427 435hp	4-Spd.	Holley	3902355 (Prim.) 3902353 (Secondary)	Three; 2-Bbl (1-Prim) (2-Sec.)	Prim. 1.5 Sec. 1.7

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE

MODEL YEAR 1967

DATE ISSUED 10-7-66 REVISED ^(*)

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

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure with surge tank		Pressure			
Radiator cap relief valve pressure			15 + 1 PSI			
Circulation Type (choke, bypass)			Choke			
thermostat Starts to open at (°F)			177° - 183°			
Type (centrifugal, other)			Centrifugal			
Water pump 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)	Internal	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	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		17.12		
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	HI		
	Generator or alternator	A	D	H		
	Water Pump	A	DE	HI		
	Power Steering	B	F	J	J	NA
	Air Conditioning	C	G	K	K	NA

* 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	54.00	34.40	45.00	56.75	56.00	34.40	45.00	45.75
Width					.380						

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MAKE OF CAR CORVETTE MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED ⁽¹⁾

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

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy #1980030			
	Voltage Rtg. & Total Plates		12 Volt - 66 Plate			
	SAE Designation & Amp Hr. Rtg.		61 Amp/Hr @ 20 Hr Rate			
	Location		Right rear engine compartment			
Generator or Alternator	Terminal grounded		Negative			
	Make		Delco-Remy			
	Model		#1100693			
	Type and rating		Diode rectified 9-37 Amps			
	Output at engine idle (neutral)		13amps	22amps	16amps	24amps
Regulator	Ratio—Gen. to Cr/s rev.		2.46:1			
	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 amps			
		Other	None			

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy	
	Model		1107320	1107365
	Rotation (drive end view)		Clockwise	
	Engine cranking speed		-	
	Test conditions		Engine at operating temperature	
	No load test	Amps	65-100	70-99
		Volts	10.6	10.6
RPM (min)		3600-5100	7800-12000	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		3-Spd & 4-Spd-Place gear shift 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 CORVETTE MODEL YEAR 1967 DATE ISSUED 19-7-66 REVISED 401

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

ELECTRICAL—STARTING SYSTEM (cont.)

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

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Optional		Mandato
	Make		Delco-Remy		
	Model		1115202	1115264	1115210
	Amps	Engine stopped	4.0		
Distributor	Engine idling		1.8		
	Make		Delco-Remy		
	Model		1111194	1111196	1111247
	Cam'figal adv. in crankshaft degrees @ engine rpm (nominal)		900		
	Start (rpm)		15 @ 1500		
	Intermediate points deg. @ rpm.		17 @ 2000		
	Max. deg. @ rpm.		None		
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)		30 @ 5100	32 @ 5000	30 @ 3800
	Start (in. Hg.)		6	4	7
	Intermediate points, deg. @ in. Hg.		None		
Timing	Max. deg. in. Hg.		15 @ 12	16 @ 7	12 @ 12
	Breaker gap (in.)		.019 (new)		
	Cam angle (deg.)		Trans.		
	Breaker arm tension (oz.)		28 - 32		
Spark Plug	Crankshaft deg. @ rpm.		19 - 23oz.		
	Mark location		(a)	(b)	(c)
	Make		4 BTDC @ 550		
	Model		Torsional damper		
Cable	Thread (mm)		AC Spark Plug		
	Tightening torque (lb. ft.)		AC43N		
	Gap		14		
	Conductor type		25		
Cable	Insulation type		.033 - .038		
	Spark plug protector		Linen core impregnated with electrical conducting material		
			Rubber with neoprene jacket		

- (a) 6° BTDC @ 500
(b) 10° BTDC @ 700
(c) 5° BTDC @ 750

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

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	Delco products
	Type—Standard	Electric two-speed
	Type—Optional	None
	Vacuum booster provision	None
Horn	Washer provision	Pushbutton - standard
	Type	Vibrator
	Number used	2
	Amp draw (each)	(Low note) 4.5-6.3@12.5V. (Hi note) 4.2-6.2@12.5V

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	2450-2750	2600-2800
No. of clutch driven discs		One		
Clutch facing	Material	Woven type asbestos		
	Outside & inside dia.	11.0 - 6.5		
	Total eff. area (sq. in.)	123.70		
	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		

AMA Specifications—Passenger Car

MAKE OF CAR **CORVETTE** MODEL YEAR **1967** DATE ISSUED **10-7-66** REVISED ^(a)

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

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard - available with 300 HP only
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Powerglide optional with 300 HP & 390 & 400 HP only

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		3-Speed (a)	4-Speed (b)	4-Speed (c)
Transmission ratios	In first	2.54	2.52	2.20
	In second	1.50	1.88	1.64
	In third	1.00	1.47	1.27
	In fourth	-	1.00	1.00
	In reverse	2.63	2.59	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	SAE80		
	Summer	SAE80		
	Winter	SAE80		
	Extreme cold	SAE80		

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

- (a) - Available with 327 Cu. In. 300 HP only
 (b) - Available with all engine combinations
 (c) - Available all engine combinations except 327 Cu. In. (300 HP)

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MODEL 19400

DRIVE UNITS—AUTOMATIC TRANSMISSION

Available with 327 Cu. In. (300 HP)
& 427 Cu. In. (390 & 400 HP) 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 and 1.0 Low & Reverse 1.76
Max. upshift speeds—drive range	67 (327 Cu. In.): 76 (427 Cu. In.)
Max. kickdown speeds—drive range	64 (327 Cu. In.): 72 (427 Cu. In.)
Torque converter	Number of elements
	3
	Max. ratio at stall
Lubricant	2.10
	Type of cooling (air, liquid)
	Air
Capacity—refill (pt.)	6.5
	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.

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AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED (0)

MODEL 19400

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		Prepack
Universal joints	Make		Chevrolet
	Number used		Two
	Type (ball and trunnion, cross, other)		Cross
	Bearing	Type (plain, anti-friction)	Anti-Friction
		Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube or arms, springs)			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			2-Taper Roller
Lubricant	Capacity (pt.)		3.7
	Type recommended		Military specs 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		3.36:1	3.70:1	3.08:1	3.55:1	4.11:1
No. of teeth	Pinion	11	10	12	9	9
	Ring gear	37	37	37	32	37

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DRIVE UNITS—WHEELS

Type & material		Short spoke disc. steel
Rim (size and flange type)	Std.	15 x 6 JK
	Opt.	15 x 6L Ribbed, cast aluminum
Attachment	Type (bolt or stud)	Bolt
	Circle diameter	4.75
	Number and size	5 Hex nuts 7/16 - 20 UNF 2-B

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.75 x 15 - 4PR
	Type - Nylon, etc.	Original equipment
Rev/mile at 50 mph.		776
Inflation press. (cold)	Front	24
	Rear	24
Optional tires - size and ply		---

BRAKES—SERVICE

Type (dual-servo, disc, balanced, etc.)			Caliper Disc. 4-wheel hydraulic	
Self adjusting (std., opt., N.A.)			Standard	
Hydraulic system type (single, dual, etc.)			Dual	
Power brake make & type (remote, integral, etc.)			Delco-Moraine vacuum power unit assists master cylinder; integral unit	
Effective area (sq. in.) *			78.1	
Gross lining area (sq. in.) **			86.3	
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 cyl- inder bore	Front		1.875	
	Rear		1.375	
Master cylinder bore			1.00	
Available pedal travel			5.00	
Line pressure at 100 lb. pedal load			576	
Shoe clearance adjustment			Self-adjusting	

* Excludes rivet holes, grooves, chamfers, etc.

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

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

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AMA Specifications—Passenger Car

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MODEL 19400

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	5.96 x 2.21 x .41
			Second. or in-board	5.96 x 2.21 x .41
		Segments per shoe		One
	Rear Wheel	Material		Woven asbestos
		Size (length x width x thickness)	Prim. or out-board	5.96 x 2.21 x .41
			Second. or in-board	5.96 x 2.21 x .41
		Segments per shoe		One

BRAKES—PARKING

Type of control		Mechanical
Location of control		Grip handle on center 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

FRAME

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

STEERING

Manual (std., opt., NA)			Standard				
Power (std., opt., NA)			Optional				
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	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	Gear Overall	16:1			
				Street 20.2:1	Fast 17.6:1		
	No. wheel turns	Street 3.4	Fast 2.92				

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED (a)

MODEL _____

STEERING (cont.)

Power	Type (coaxial, linkage, etc.).		Linkage	
	Make		Saginaw	
	Gear	Type		Same as Manual
		Ratios	Gear	16.0:1
			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 length.)		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)	Caster (deg.)		P 1/2 to P 1 1/2	
	Camber (deg.)		P 1/4 to P 1 1/4 (a)	
	Toe-in (outside track inches)		3/16 to 5/16 (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 (Mod)	
	Bearing type		Taper roller	

(a) Rear Wheel Alignment; Camber (Deg.) N 1 to 0
Toe-In (Total) 1/16 to 3/16.

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MODEL 19400

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 ecc. squat control	Rear suspension geometry
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	Direct, double-acting hydraulic
Type	Delco
Make	1.00
Piston dia.	
Other special features	Fully independent rear suspension.

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.)	8.56 x 3.80 168.50 x .600
	Spring rate (lb. per in.)	195
	Rate at wheel (lb. per in.)	80
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	327 V-8 steel .750 427 V-8 steel .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
	Shackle (comp. or tens)	Tension
Stabilizer	Type (link, linkless, frameless)	Link (B)
	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 19437 19467

BODY—MISCELLANEOUS INFORMATION

Doors 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 number.
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 hard top, 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
Backlight glass exposed surface area		821.5
Total glass exposed surface area		2231.5
		550.1
		440.5
		1780.3

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	24.4
		Lowest	24.4
	Tail	Highest	21.2
		Lowest	21.2
Distance from C/L of car to corner of bulb	Headlamp	Inside	15.4
		Outside *	21.7
	Tail	Inside	19.0
		Outside	24.0
	Directional	Front	28.3
		Rear	
			Inboard 19.0
			Outboard 24.0

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1967 DATE ISSUED 10-7-66 REVISED NAMODEL 19437 19467**CONVENIENCE EQUIPMENT**

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

Power windows	Side Windows	Optional
	Vent Windows	NA
	Becklight 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 push-button, all models
Rear seat speaker		NA
Power Antenna		NA
Clock		Standard
Air Conditioner (specify type and availability)		Four seasons, all models
Speed warning device		Optional
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, Four-way		Standard
Cornering light lamp		NA
Freeway lane change signal		Standard
Instrument panel pad		Standard
Left hand outside mirror		Standard
Padded sunshades		Standard
Brake system warning and parking brake light		Standard
Steering column energy absorbing		Standard

WEIGHTS

[illegible]

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