

AMA Specifications – Passenger Car

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MANUFACTURER Chevrolet Motor Division General Motors Corp.	CAR NAME CORVETTE	
MAILING ADDRESS Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR 1965	ISSUED: 9-28-64
		REVISED (a)

NOTES:

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

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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 19467 2-door Convertible, 2-passenger

Model 19437 2-door Sport Coupe, 2-passenger

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MAKE OF CAR CORVETTE MODEL YEAR 1965 DATE ISSUED 7-28-64 REVISED(s) _____

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	19400	Additional Information Page No.	19437	19467
Wheelbase (L101)	23		98.0	
Track	Front (W101)	22	56.8	
	Rear (W102)	22	57.6	
Maximum Overall Dimensions	Length (L103)	23	175.1	
	Width (W103)	22	69.2 (W106 is 69.6)	
	Height (H101)	24	49.6	49.8
Transmission (Specify trade name - opt., not available)	Manual Synchronesh		Std. Engine 3-spd. std. 4-spd. opt.	L75 L79 L76 L84 4-speed opt.
	Overdrive		NA	
	Automatic Power-glide 16		Optional	NA
	Manual	17	3.36	3.70
Gear ratio	Overdrive	17	NA	
	Automatic	17	3.36	NA
Tire size	18		7.75 x 15	
Engine	Type, no. cyl., valve arr.	2	90° OHV V-8	
	Fuel system (Carb., other)	8	Carburetor	Fuel Injection
	Bore and stroke	2	4.00 x 3.25	
	Piston displ., cu.in.	2	327	
	Std. compression ratio	2	10.5	11.0
	Max. hp at engine rpm	2	250 @ 4400	300 @ 5000 350 @ 5800 365 @ 6200 375 @ 6200
	Max. torque at rpm	2	350 @ 2800	360 @ 3200 360 @ 3600 350 @ 4000 350 @ 44-4800

MAKE OF CAR CORVETTE MODEL YEAR 1965 DATE ISSUED 1-28-64 REVISED (a)**GENERAL SPECIFICATIONS — DIMENSIONS**(All dimensions in inches unless otherwise indicated)
(Supplemental data available on request)

MODEL	19400	Ref. No.	19437	19467
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FRONT COMPARTMENT

Shoulder room	W3	18.4	
Max. eff. leg room - accelerator	L34	15.7	
Effective head room	H61	37.0	38.5
H Point to Heel point	H30	3.7	
Upper body opening to ground	H50	46.8	45.6

REAR COMPARTMENT NA

Shoulder room	W4	
H Point couple distance	L50	
Minimum effective leg room	L51	
Effective head room	H63	

STATION WAGON—THIRD SEAT NA

Shoulder room	W85	
Effective leg room	L86	
Effective head room	H86	

LUGGAGE COMPARTMENT

Usable luggage capacity (See instr.)	V1	10.6 cu. ft.	8.1 cu. ft.
Lift-over height	H195	NA	
Position of spare tire storage		Under fuel tank (accessible from underside of vehicle)	
Method of holding lid open		NA	

STATION WAGON—CARGO SPACE NA

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		MODEL YEAR		DATE ISSUED		REVISED (a)	
CONVEYER		1940		7-28-64			
		327 Cu. in. V-8 Engines					
MODEL		19400	Base 250 HP	RPO-L79 300 HP	RPO-L79 350 HP	RPO-L76 365 HP	RPO-L84 375 HP

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° OHV V-8			
Bore and stroke (nominal)		1.00 x 3.25			
Piston displacement, cu. in.		327			
Bore spacing (C/L to C/L)		4.4			
No. system (front to rear)	L. Bank	1-3-5-7			
	R. Bank	2-4-6-8			
Firing order		1-8-4-6 3-5-7-2			
Compress. ratio (nominal)		10.5:1		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°			
Turnbl. $\frac{1}{2}$ x No. Cyl. horsepower 25		5:2			
Published max. bhp* @ eng. RPM		250 @ 4400	300 @ 5000	350 @ 5800	365 @ 6200 375 @ 6200
Published max. torque* (lb. ft. @ RPM)		350 @ 2800	350 @ 4000	360 @ 3800	350 @ 4000 350 @ 44-4800
R. rounded fuel is - premium		Premium			
Idle speed (spec. neutral or drive)	Manual	400-500 RPM in Neutral		700 RPM in Neutral	
	Automatic	450-500 RPM in Drive		----	

ENGINE—PISTONS

Material	Cast aluminum		Aluminum impact	
Description and finish	Flat head; Slipper skirt		Domed head: Slipper skirt	
Weight (piston only) oz.	21.60		20.40	
Clearance (limits)	Top land	.0365-.0455(a)	Top land	.0395-.0425(b)
	Skirt	.0005-.0011	Skirt	.0039-.0045
			Bottom	
Ring groove depth	No. 1 ring	.2217-.2283	No. 1 ring	.2217-.2283
	No. 2 ring	.2217-.2283	No. 2 ring	.2217-.2283
	No. 3 ring	.2038-.2103	No. 3 ring	.2038-.2103
	No. 4 ring		No. 4 ring	

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

(a) - Measured at 2.24 from top of piston.

(b) - Measured at 2.32 from top of piston.

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first)			
	Displ. cu. in.	Carburetor	Comp. Ratio	HP @ RPM	Torque @ RPM		"A"	"B"	"C"	"D"
19400	327	4-Bbl	10.5:1	250 @ 4000	350 @ 2800	3-Speed 4-Speed * Powerglide *	3.36:1 3.36:1 3.36:1	- - -	- 3.08:1 -	- - -
		Large* 4-Bbl Alum.	10.5:1	300 @ 5000	360 @ 3200	4-Speed * Powerglide *	3.36:1 3.36:1	- -	- 3.08:1	- -
		Large* 4-Bbl. Carb.	11.0:1	350 @ 5800	360 @ 3800	3-Speed 4-Speed *	3.36:1 3.70:1	- 3.36:1	- 3.08:1	- 4.11:1
		Large* 4-Bbl Carb.	11.0:1	365 @ 6200	350 @ 4000	4-Speed *	3.70:1	3.36:1 3.55:1	3.08:1	4.11:1 4.56:1
		Fuel * In- jection	11.0:1	375 @ 6200	350 @ 44- 4800	4-Speed *	3.70:1	3.36:1 3.55:1	3.08:1	4.11:1 4.56:1
*-Optional A-General Purpose Standard (Also available as positraction) B-Special Purpose or Mountain (Available as positraction only) C-Performance Cruise (250 HP & 300 HP Engines available as positraction all other engines positraction only) D-High performance (Available as positraction only)										

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MAKE OF CAR		CORVETTE		MODEL YEAR		1965		DATE ISSUED		7-28-64		REVISED		(a)	
						327 Cu. In. V-8 Engine									
MODEL		19400		Base		RPO-L75		RPO-L79		RPO-L76		RPO-184			
		250 HP		300 HP		350 HP		365 HP		375 HP					

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.	
Composition	Description - material, type, coating, etc.	Upper: Cast alloy inside bevel Coating-chrome plate O. D. Molybdenum Lower: (a) Cast alloy iron-Molybdenum coating
	Width	Upper: .0775-.0780; Lower: .0770-.0775
	Gap	Upper .013-.023; Lwr. .013-.025 Upper & Lower .013-.025
Oil	Description - material, type, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails - Steel, chrome plated OD Expander - Stainless steel
	Width	.1840-.1880 (assembled)
	Gap	.015-.055
Expanders		In oil ring assembly

ENGINE-PISTON PINS

Material		Chromium Steel	
Length		2.990-3.010	
Diameter		.9270-.9273	
v	Locked in rod, in piston, floating, etc.		Locked in rod
	Bushing	In rod or piston	None
		Material	
Clearance	In piston	.00015-.00025	.00045-.00055
	In rod		
Direction & amount offset in piston		Major thrust side .060	On center

ENGINE-CONNECTING RODS

Material		Drop forged steel
Weight (oz.)		20.00
Length (center to center)		5.699-5.701
Bearing	Material & Type	Premium aluminum
	Overall length	.807
	Clearance (limits)	.0007-.0028
	End play	.009-.013

(a) One ring (wear resistant coating) and steel expander

MAKE OF CAR	CORVETTE	MODEL YEAR	1965	DATE ISSUED	9-28-64	REVISED	(n)
			327 Cu. in. V-8 Engines				
MODEL	19400	Basic	RPO-1.75	RPO-1.79	RPO-1.76	RPO-1.84	
		250 HP	300 HP	350 HP	365 HP	375 HP	

ENGINE—CRANKSHAFT

Material		Forged steel		
Vibration damper type		Rubber mounted inertia		
End thrust taken by bearing (No.)		Five		
Crankshaft end play		.002 - .006		
Main bearing	Material & type		Premium aluminum exc. No. 5 steel backed babbitt	Premium aluminum
	Clearance		#1 thru #4 .0008 - .0034; #5 .0010 - .0036	
	Journal dia. and bearing overall length	No. 1	2.3013 x .752	2.3009 x .752
		No. 2		2.3009 x .752
		No. 3		2.3009 x .752
		No. 4		2.3009 x .752
		No. 5		2.3006 x 1.1824
		No. 6		None
		No. 7		None
	Dir. & amt. cyl. offset		----	
Crankpin journal diameter		1.999 - 2.000		

ENGINE—CAMSHAFT

Location	In block above crankshaft		
Material	Cast alloy iron		
Bearings	Material	Extra life 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 alloy iron	
	Timing chain	No. of links	40
		Width	.875
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	Standard		Mechanical
Valve rotator, type (Intake, exhaust)	None		
Rocker ratio	1.5:1		
Operating tappet clearance (Indicates hot or cold)	Intake	Zero	.025
	Exhaust	Zero	.025
Timing marks on flywheel, damper, other	Harmonic Balancer		

(Continued)

MAKE OF CAR	CORVETTE	MODEL YEAR	1965	DATE ISSUED	9-28-64	REVISED*	
MODEL	19400	Base 250 HP	327 Cu. in. V-8 RPO 1.75 300 HP	RPO-1.79 350 HP	RPO 1.76 365 HP	RPO-1.84 375 HP	

ENGINE—VALVE SYSTEM (cont.)

Timing *	Intake	Opens (°BTC)	32° 30'	54°	60° 50'
		Closes (°ABC)	87° 30'	108°	105° 23'
		Duration - deg.	300°	342°	346° 13'
	Exhaust	Opens (°BBC)	74° 30'	102°	108° 50'
		Closes (°ATC)	45° 30'	60°	57° 23'
		Duration - deg.	300°	342°	346° 13'
	Valve opening overlap		78°	114°	118° 13'
Intake	Material		Alloy steel		
	Overall length		4.870-4.889		
	Actual overall head dia.		1.935-1.945		2.017-2.023
	Angle of seat & face		46° (seat) 45° (face)		
	Seat insert material		None		
	Seat diameter		.3404-.3417		
	Seat to guide clearance		.0010-.0027		
	Lift (° zero lash)		.3987	.4472	.4851
	Outer spring press. and length	Valve closed (lb. @ in.)	78-86 @ 1.66		
		Valve open (lb. @ in.)	170-180 @ 1.26		
	Inner spring press. and length	Valve closed (lb. @ in.)	Spring Damper		
		Valve open (lb. @ in.)	Spring Damper		
Exhaust	Material		High Alloy Steel (Aluminized Face)		
	Overall length		4.913-4.933	4.891-4.910	
	Actual overall head dia.		1.495-1.505	1.595-1.605	
	Angle of seat & face		46° (seat) 45° (face)		
	Seat insert material		None		
	Seat diameter		.3410-.3417		
	Seat to guide clearance		.0010-.0027		
	Lift (° zero lash)		.3987	.4472	.4851
	Outer spring press. and length	Valve closed (lb. @ in.)	78-86 @ 1.66		
		Valve open (lb. @ in.)	170-180 @ 1.26		
	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	Nozzle
	Cylinder walls	Pressure, jet cross sprayed

* Including ramps on 250, 300 & 250 HP
opens with .025 lash on 365 & 375 HP

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ENGINE—LUBRICATION SYSTEM (cont.)

ENGINE—EXHAUST SYSTEM

ENGINE—CRANKCASE VENTILATION SYSTEM

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

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MAKE OF CAR	CORVETTE	MODEL YEAR	1965	DATE ISSUED	28-64	REVISED	(1)
					327 Cu. In. V-8 Engines		
MODEL	19400	Base 250 HP	RPO 1.75 300 HP	RPO-L79 350 HP	RPO-1.76 365 HP	RPO-1.84 375 HP	

ENGINE—FUEL SYSTEM

(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor		Fuel Injection
Fuel Tank	Capacity (gals.)	20 (a)		
	Filler location	Center at rear deck		
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Location	Lower right front of engine		
	Pressure range	5.25-6.50 PSI	6.00-7.50 PSI	
Vacuum booster (std., optional, none)		None		
Fuel Filter	Type	Fine mesh plastic strainer in gas tank		
	Location	Sintered bronze filter in carb. inlet or 250 HP (b)		
Carburetor	Choke type	Automatic		
	Intake manifold heat control (exhaust or water)	Exhaust		
	Air cle. type	Standard	Oil wetted, polyurethane	
		Optional		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
19400	327 250 hp	3-Speed 4-Speed Powerglide	Carter	3846247	One; 4-Bbl Down-draft	1.4375 (P) 1.4375 (S)
	327 300 hp	3-Speed 4-Speed Powerglide	Carter	3851761 3851762	One 4-Bbl Alum. Down-draft	1.5625 (P) 1.6875 (S)
	327 350 hp	4-Speed	Holley	3849804	One 4-Bbl Down-draft	1.561 (P) 1.561 (S)
	327 365 hp	4-Speed	Holley	3849804	One 4-Bbl Down-draft	1.561 (P) 1.561 (S)
	327	4-Speed	Refer to supplement page 8A and 8B.			
(a) - 36 gallon fiberglass tank available optionally.						
(b) - In-line paper element, between fuel pump and carburetor on L75, 79, 76 & 84.						

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SUPPLEMENTARY INFORMATION

MODEL 19400

FUEL INJECTION - RPO-L84

GENERAL

Make ----- Rochester Products
 Model ----- 7017380
 Type ----- Mass air flow with continuous fuel injection

AIR INDUCTION

Description ----- Outside air ducted thru air cleaner to air meter
 Outside air ducting
 Location ----- Left side of engine
 Air cleaner
 Type ----- Oil-wetted, polyurethane element; conical
 Air meter
 Flow control ----- Throttle valve
 Flow measurement ----- Annular venturi
 Cold enrichment
 Type ----- Choke
 Action ----- Automatic, bi-metallic spring and exhaust heat

FUEL METER

Flow control ----- Continuous flow pump with
 diaphragm controlled bypass; system feeds measured
 amounts of fuel directly to intake ports where orifice
 injection nozzles direct fuel to intake valves.
 Pump
 Type ----- Gear
 Drive ----- Flexible shaft from distributor
 Output psi, maximum
 Bypass system
 Control ----- Diaphragm controlled spill valve - by
 vacuum from air meter annular venturi
 Injection nozzles
 Quantity ----- 8
 Type ----- Continuous flow
 Material ----- Brass
 Location ----- On intake manifold above intake ports
 Orifice diameter ----- .0118

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SUPPLEMENTARY INFORMATION

MODEL 19400

FUEL INJECTION - RPO- L84 (Continued)

DISTRIBUTION SYSTEM

Intake manifold

Type ----- Integral plenum chamber

Material ----- Aluminum

Intake manifold adapter

Material ----- Aluminum

Ram pipes

Quantity ----- 8

Length ----- 12.0

Construction ----- Integral with inlet manifold

STARTING

Description ----- Fuel channeled directly from
fuel pump into distributor spider into intake
ports thru bypass valve: valve actuated by
solenoid energized thru ignition switch.

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MAKE OF CAR CORVETTE MODEL YEAR 1960 DATE ISSUED 12-28-60 REVISED 01
 MODEL 19400 150 HP 300 HP 350 HP 365 HP 375 HP

ENGINE-COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure with surge tank		
Radiator cap relief valve pressure			13 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		
	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)			Aluminum cross flow		
Cooling system capacity	With heater (qt.)		19		
	Without heater (qt.)		8		
	Opt. equipment capacity (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		17.1"		
	Ratio-fan to crankshaft rev.		.940:1		
	Fan output type		Thermo-moldulated viscous coupling		
	Bearing type		None		
*Drive belts (indicate belt used by letter)	Fan		A	D, E	
	Generator		A	D	
	Water Pump		A	D, E	
	Power Steering		B		
	Air Conditioning		C	C	--

* Drive Belt Dimensions	A	B	C	D	E
Angle of V	38° - 42°				
Nominal length (SAE)	54.25	35.00	57.50	54.75	37.50
Width	.380				

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MAKE OF CAR CORVETTE		MODEL YEAR 1965		DATE ISSUED 9-28-64		REVISED (a)
MODEL	19400	327 Cu. In. V-8 Engines				
		Base 250 HP	RPO-1.75 300 HP	RPO-1.79 350 HP	RPO-1.76 365 HP	RPO-1.84 375 HP

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy #1980558	
	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	Make		Delco-Remy	
	Model		#1100693	
	Type		Diode rectified	
	Ratio—Gen. to Cr/s rev.		2.46:1	2.00:1
	Gen. cut-in (hot)—engine rpm			
Regulator	Make		Delco-Remy	
	Model		1119515	
	Type		Vibrator	
	Cutoff relay	Closing voltage @ generator rpm	None	
		Reverse current to open		
	Regulated	Voltage	13.8-14.8 @ 85° F	
		Current		
	Voltage test conditions	Temperature	Operating	
		Load	3-F amp	
Other		None		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy			
	Model		#1107320			
	Rotation (drive end view)		Clockwise			
	Engine cranking speed					
	Test conditions		Engine at operating temperatures			
	Load test	Amps				
		Volts				
		Torque (lb. ft.)				
	No load test	Amps	65-100			
		Volts	10-6			
		RPM (min.)	3600-5100			
Motor control	Switch (solenoid, manual)		Solenoid			
	Starting procedure		SYNCHROMESH-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.			

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MAKE OF CAR	CORVETTE		MODEL YEAR	DATE ISSUED 9-28-64		REVISED (w)
				327 Cu. In. V 8 Engines		
MODEL	19400	Base 250 HP	RPO-1.75 300 HP	RPO-1.79 350 HP	RPO-1.76 465 HP	RPO-1.84 375 HP

ELECTRICAL-STARTING SYSTEM (cont.)

Motor Drive	Engagement type	Positive start solenoid
	Pinion meshes (front, rear)	Rear
	Number of teeth	9
	Flywheel tooth face width	10.10 - 11.30

ELECTRICAL-IGNITION SYSTEM

Coil	Make	Delco-Remy
	Model	# 15202
	Amps	4.0
Distributor	Engine stopped	1.8
	Engine idling	1.8
	Make	Delco-Remy
	Model	1111076
	Cent'gal adv. in crankshaft degrees @ engine rpm (nominal)	750
	Intermediate points deg. @ rpm	800
	Max. deg. @ rpm	26 @ 4100
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	24 @ 2350
	Start (in Hg.)	6
	Intermediate points, deg. in Hg.	4
Timing	Max. deg. in Hg.	22 @ 12
	Breaker gap (in.)	.019
	Cam angle (deg.)	28° - 32°
	Breaker arm tension (oz.)	19-2302
	Crankshaft deg. @ rpm.	
	Mark location	Harmonic Balancer
	Cylinder numbering system (see page 2)	Right Bank 2-4-6-8 Left Bank 1-3-5-7
	Firing order (see page 2)	1-3-4-6-5-7-2
	Make and model	AC 11
	Thread (mm)	14
Spark Plug	Tightening torque (lb ft.)	15
	Gap	0.03 - 0.04
	Conductor type	Linear core and covered with electrical conducting material
Cable	Insulation type	Rubber with neoprene jacket
	Spark plug protector	Thyatron jacket

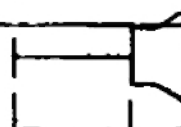
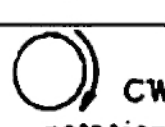
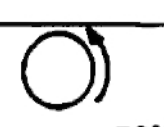
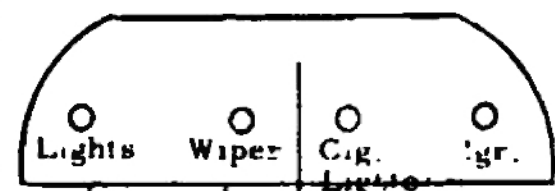
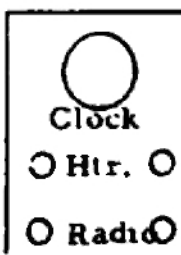
ELECTRICAL-SUPPRESSION

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

MAKE OF CAR CORVETTE MODEL YEAR 1940 DATE ISSUED 12-15-41 REVISED (w)

MODEL 19400 19437 19457

ELECTRICAL-INSTRUMENTS AND SWITCHES

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			
Ignition switch	Identify positions in order and circuits controlled	ACCESSORY OFF ON START		ACCESSORY-Accessories(ign. off) OFF - off, locked ON - ignition, batt., accessories START - starter motor, spring return to ON.	
	Provision for illumination	1 1445 lamp			
	Location	Instrument panel to right of steering column			
Main lighting switch	Identify positions and lamps controlled	 1st position	 2nd position	 CW rotation	 CCW rotation
		Instru. panel lamps, parking, tail and license lamps	Instru. panel lamps, headlamps, tail & license lamps	Instru. panel lamps dim to off.	Instru. panel lamps off to bright; full CCW rotation dome and/or courtesy lamps on.
Other light switches	Locations and lamps controlled	Dimmer; toe panel hdlp. beam and indicator. Turn signal, steering column - indicators and exterior lamps. Door jam; hinge pillars - dome and/or courtesy lamps. Stop; at brake pedal pendant - exterior stop lamps. Parking brake alarm; parking brake lever - parking brake alarm indicator Glove compt. illumination; glove compt. - glove compt. lamp			
Other switches	Locations and devices controlled	 Hdlp Motor Rr Compt vent blower			 @ Electric windows - center console. @ Auto. transmission safety switch - transmission. @ Backup lamps - transmission
Windshield wiper	Make	Delco			
	Type	Electric two speed			
	Vacuum booster provision	None			
	Washer provision	Coordinator and vacuum reserve tank			
Horn	Type	Vibrator			
	Number used	2			
	Amp draw (each)	8.00-11.0@12.5V			

@ OPTIONAL EQUIPMENT: radio; backup lamps; power windows; auto. trans;

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MODEL 19400 19437 19467

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.

Headlamps & arrangement	Dual, horizontal; outer, 2-4002, inner, 2-4001		
Headlamp beam indicator		1-1445	
Parking		2-1157	
Tail		4-1157 (a)	
Stop		4-1157 (a)	
Direction signal	Front	2-1157	
	Rear	4-1157 (a)	
	Indicator	2-1816	
License Plate		1-1155	
Oil pressure and temp. gages	1-"instrument" (shared)		
Charge and fuel gages	1-"instrument" (shared)		
Instrument		7-1816	
Clock		2-1816	Std.
Radio		1-1893	Opt.

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA.

Ignition lock		1-1445		Std.
Backup		2-1156		Opt.
Dome	1-90	Std.	NA	
Glove compartment		1-1893		Std.
Prdg. brake signal		1-257		Std.
Luggage compartment		NA		
Underhood		NA		
Courtesy	Instru. panel, 2-90	Std.	Instru. panel, 2-90; rr. compl., 1-90	Std.
Air cond. controls		1-1893		Opt.
Hdlp. position indicator		1-257		Std.
Heater controls		1-1893		Std.
Cig. lighter		1-1445		Std.
Spot lamp (portable)		1-4416		Opt.

(a) Two with backup lamps

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Model 19400

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first one by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Direction indicator same as (a)

Headlamp	15 CB	(a)	Power windows	40 CB
Headlamp beam indicator		(a)	W/S wiper	14 CB
Parking lamp		(a)	Air conditioning	Two AGC 30
Tail lamp	AGC 10	(b)		one in "(f)"
Stop lamp	AGC 15	(c)	Rr. comp't. vent	
Direction indicator	AGC 4	(d)	motor	(f)
License plate lamp		(b)		
Instrument lamp		(d)		
Ignition lamp		(d)		
Back up lamp		(b)		
Dome lamp		(c)		
Clock		(c)		
Clock lamp		(c)		
Radio	AGC 2.5	(e)		
Glove compartment lamp		(c)		
Cig. lighter		(b)		
Cig. lighter lamp		(b)		
Courtesy lamps		(c)		
Heater	AGC 10	(f)		
Heater controls lamp		(b)		
T. gauge	AGC 10	(g)		
Fuel gauge		(g)		
Park. brake alarm		(g)		
Wdps. motor	40 CB	(h)		
Idling position r.l.		(h)		

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

eight above ground to center of bulb	Tail	Lowest	21.76
		Highest	21.76
	Stop		21.76
	Backup		21.76 (replace inboard tail lamps)
	License, rear		21.30
	Directional	Front	15.06
		Rear	21.76
	Headlamp	Inside	24.46
		Outside*	24.46
distance from R/L of car to center of bulb	Tail	Inside	19.00
		Outside	24.00
	Stop		19.00 and 24.00
	Backup		19.00 (replace inboard tail lamps)
	License, rear		21.30
	Directional	Front	24.46
		Rear	19.00 and 24.00
	Headlamp	Inside	15.46
		Outside*	21.66

* If no headlamps are used enter zero.

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MAKE OF CAR	CORVETTE	MODEL YEAR	1965	DATE ISSUED	9-28-64	REVISED (a)	
		Std. Engine	L75	L79	L76	L84	
MODEL	19400	3 Spd.	4-Spd.	4-Speed	4-Speed	4-Speed	4-Speed

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Chevrolet single dry disc, centrifugal		
Type pressure plate springs	Diaphragm, bent finger design		
Effective plate pressure (lb.)	100-2300		
No. of clutch driven discs	One		
Clutch facing	Material	Woven type asbestos	
	Outside & inside dia.	10.0 & 6.5	
	Total eff. area (sq.in.)	90.7	
	Thickness	.135 ea.	
	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	

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Std.	Opt.
Manual with overdrive (std. or opt.)		NA
Automatic (std. or opt.)	Optional	NA

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		3	4	4
Transmission ratios	In first	2.58	2.56	2.20
	In second	1.48	1.91	1.64
	In third	1.00	1.48	1.28
	In fourth	-	1.00	1.00
	In reverse	2.58	2.64	2.27
Synchronous meshing, specify gears		2 & 3	All forward gears	
Shift lever location		Floor		
Lubricant	Capacity (qt.)		2.0	2.5
	Type recommended		Military Spec. MIL-L-2105-B	
	SAE viscosity number	Summer	SAE 80	
		Winter	SAE 80	
		Extreme cold	SAE 80	

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MAKE OF CAR	CORVETTE	MODEL YEAR	1965	DATE ISSUED	9-28-64	REVISED (a)	
Model	19400	Std. Engine	L75	L79	L76	L84	

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE NA

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		
	Manual lockout (yes, no)		
	Downshift accelerator control (yes, no)		
	Minimum cut-in speed		
	Gear ratio		
	Lubricant	Capacity (pt.) (Overdrive only)	
		Separate filler (yes, no)	
		Type recommended	
		SAE viscosity number	Summer Winter Ext. cold

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Powerglide	NA
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 L & R to which are used in each position	D - 1.76 and 1.0 L & R - 1.76	
Max. upshift speed—drive range	58	65
Max. kickdown speed—drive range	59	61
Torque converter	Number of elements	3
	Max. ratio at stall	2.10
	Type of cooling (air, water)	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 transmission	3	2 x 29.90 x .095	
		4	2 x 29.90 x .095	
	Overdrive transmission		NA	
	Automatic transmission		2 x 29.90 x .095	NA

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

(Continued)

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MAKE OF CAR	CORVETTE	MODEL YEAR	1965	DATE ISSUED	9-28-64	REVISED (a)	
MODEL	19400	Std. Engine	L75	L79	L76	L84	

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 thrust, cross, other)		Cross
	Bearing	Type (plain, anti-friction)	Anti friction
		Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube or cross, springs)			Torque control arms
Torque taken through (torque tube or cross, springs)			Torque control arms

DRIVE UNITS—REAR AXLE

Description (see instructions)			Semi floating, overhung pinion gear		
Limited Slip differential, type			Dual disc clutches		
Drive Pinion Offset			1.5		
No. of differential pinions			2		
Gear ratios (Std. equip.)	Manual transmission	3	3.36	NA	
		4	3.36	3.70	
	Overdrive transmission		NA		
	Automatic transmission		3.36	NA	
	Ring gear O.D. (std. ratio)			8.375	
Pinion adjustment (shim, other)			None		
Pinion bearing adj. (shim, other)			Shim		
Wheel bearing type			Taper roller		
Lubricants	Capacity (pt.)		3.7		
	Type recommended		For conventional axles, 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 3 for axle ratio usage)

Axle ratio		3.36	3.70	
No. of teeth	Pinion	11	10	
	Ring gear	37	37	

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DRIVE UNITS—WHEELS

Type & material	Short spoke disc, steel	
Rim (size and flange type)	Std.	15x5.5K
	Opt.	15x6L, integral ribbed aluminum casting
Attachment	Type (bolt or stud)	15x5.5K bolt; 15x6L adapter and spinner cap
	Circle diameter	4.75
	Number and size	15x5.5K 5 hex nuts 7/16-20 UNF-2B; 15x6L 2-5/8-8 UN-2B

DRIVE UNITS—TIRES Highway, tubeless, 2-ply blackwall, unless indicated otherwise

Standard (List option below)	Size & ply	7.75x15-4PR
	Type - Nylon, etc.	Rayon
Rev/mile at 30 mph.		
Inflation press (cold)	Front	24
	Rear	24
Optional tires - size and ply		7.75x15-4PR, rayon, W/W 7.75x15-4PR (4 ply) nylon (gold stripe)

BRAKES—SERVICE

Type (dual-servo, disc, balanced, etc.)	Caliper disc, 4-wheel hydraulic	
Self adjusting (std., opt., N.A.)	None required	
Hydraulic system type (single, dual, etc.)	Single	
Brake make & type (remote, integral, etc.)	Delco-Moraine vacuum power unit assisted master cylinder; integral	
Effective area (sq. in.)*	83.4	
Gross lining area (sq. in.)**	86.3	
Swept drum area (sq. in.)***	461.2	
Percent brake effectiveness—front	65.0	
Drum	Diameter	Front Disc 11.75 Rear Disc 11.75
	Type and material	Cast iron
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.

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

*** Total swept areas for four brakes

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

(Continued)

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MAKE OF CAR **CORVETTE** MODEL YEAR **1967** DATE ISSUED **9-28-67** REVISED **(0)**

MODEL **19400**

BRAKES—SERVICE (cont.)

	Banded or riveted		Banded	
	Out-board Shoe	Material	Front wheel	Rear wheel
Lining	Size (length x width x thickness)	Material	Woven asbestos	
			5.96 x 2.21 x .41	
	Segments per shoe	Material	One per wheel	
			Woven asbestos	
In-board Shoe	Size (length x width x thickness)	Material	5.96 x 2.21 x .41	
			5.96 x 2.21 x .41	
	Segments per shoe	Material	One per wheel	
			Woven asbestos	

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 ea.

FRAME or UNITIZED CONSTRUCTION

Type and description	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.
----------------------	---

SUSPENSION—GENERAL (See Supplemental page 19 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		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 springs	

SUSPENSION—FRONT

Type and description	Independent: SLA type with coil spring and concentric shock absorber, and spherically-jointed steering knuckle for each wheel.
----------------------	--

* Air Suspension:
Air spring type
Compressor drive type
make
drive ratio

Normal operating pressures
spring rates
leveling data

(Continued)

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MODEL 19400

SUSPENSION FRONT (cont.)

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	Design load (lb. @ design height)	1380 @ 8.56
	Type (link, linkless, frameless)	Link
	Material & bar diameter	.9375

STEERING

Manual (std., opt., NA)			Std.	
Power (std., opt., NA)			Optional	
Adjustable steering wheel (rib, swing, other)		Type and description	Telescoping steering column, driver adjustable	
		(std., opt., NA)		
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 (a)	
		Make	Saginaw	
		Ratio	16:1	
		Gear Overall	Street 20.2:1; fast 17.6:1	
	No. wheel turns		Street 3.4; fast 2.92	
Power	Type (conical, linkage, etc.)		Linkage	
	Make		Saginaw	
	Gear	Type	Same as manual	
		Ratio	16:1	
		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 leafs.)		None		
Tie rods (one or two)		Two		

(a) Designed to provide 5" axial adjustment of steering column.

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MAKE OF CAR CORVETTE MODEL YEAR 1965 DATE ISSUED 6-28-64 REVISED (n)

MODEL 19400

STEERING (cont.)

Steering Axis	Inclination or camber (deg.)		6 1/2 to 7 1/2
	Bearings (type)	Upper	Ball stud with non-metallic brg. surfaces
		Lower	Ball stud with non-metallic brg. surfaces
		Thrust	None req'd.
Wheel alignment (range and preferred)	Caster (deg.)		P1 to P2 (curb)
	Camber (deg.)		P1/4 to P1-1/4 (curb)
	Toe-in (outside tread- inches)		7/32 to 11/32 total (curb)
Steering spindle & joint type			Steering knuckle with spherical joints
Wheel spindle	Diameter	Inner bearing	1.2493-1.2498
		Outer bearing	.7497-.7497
	Thread size		3/4-20 NEF-3 (modified)
	Bearing type		Taper roller

SUSPENSION—REAR

Type and description			(b)	
Drive and torque taken through (see page 17)			Torque control arms	
Spring	Type		Multi-leaf	
	Material		Chrome carbon steel	
	Size (length x width, coil design height and I.D.; bar length & dia.)		46.36 x 2.25	
	Spring rate (lb. per in.)		140	
	Rate at wheel (lb. per in.)		123	
	Design load (lb. at design height)		1360 @ .352 camber	
	Mounting insulation type		Rubber mtg. @ diff.; vertical loading only @ shackles	
	If leaf	No. of leaves		9
		Inserts	Type and size	(c)
Material			Polyethylene with graphite	
	Shackle (comp. or tens.)		--	
Stabilizer	Type (link, linkless, frameless)		None	
	Material		--	
Track bar type			None	

- (a) Rear wheel alignment at curb: camber-N5/6 to P1/6; toe in-0 to 1/8 total.
 (b) Full independent with fixed-differential, transverse multi-leaf spring, lateral struts and universally-jointed axle shafts.
 (c) 7 liners: 2.25 (width) x 44.58, 39.08, 33.58, 29.08, 24.58, 15.58, 11.08.

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MAKE OF CAR CORVETTE MODEL YEAR 1965 DATE ISSUED 9-28-63 REVISED (a)

MODEL 1940G 19437 19467

BODY-MISCELLANEOUS INFORMATION

Doors, hinged (front, rear)	Front doors	Front
	Rear doors	NA
Type of finish (lacquer, enamel, other)		Lacquer
Head counterbalanced (yes, no)		No
Head release control (internal, external)		Internal
Vehicle (Serial) No. Location	1 - Right side of hinge pillar cross brace, under glove comp. 2 - Wheel center cap	
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 glass)	Single curved-laminated safety plate	
Backlight glass type (i.e., compound curved - tempered plate, 1 piece)	19467 soft top-flat flexible plastic, 1 piece 19467 hard top-curved plex glass, 1 piece 19437 compound curved-solid safety plate, 1 piece	
Side glass type (i.e., curved - tempered plate)	Compound curved-solid safety plate	
Side glass exposed surface area	620.1	550.1
Windshield glass exposed surface area	789.7	
Backlight glass exposed surface area	821.5	140.5 (soft top)
Total glass exposed surface area	2231.3	1780.3 (soft top)

BODY-CONVENIENCE EQUIPMENT (Indicate whether standard, optional or NA on each series)

Power windows	Side Windows	Optional
	Vent Windows	NA
	Backlight or rollgate	NA
Power seats (specify type as well as availability)	NA	
Reclining front seat back	NA	
Front seat headrest	NA	
Radios (specify type as well as availability)	AM-FM, all models	
Rear seat speaker	NA	
Power Antenna	included with radio option	
Clock	Standard	
Air Conditioner (specify type and availability)	Four Seasons, all models	

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WEIGHTS

[illegible]

* These are weights that are reported to states for licensing purposes.

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Ignition System	11	Weight - Shipping, Curb	23
Inflation - Tires	18	Wheel Alignment	21
Watts	7, 12	Wheelbase	1
Klappin (Steering Axis)	21	Wheels & Tires	18
Lamp Bulbs	13	Wheel Spindle	21
Lamp Height & Spacing	14	Width - Car & Body	1
Lagrange	1a	Windshield	22
Length - Overall	1	Wind-told Wiper	12
Lifts, Valve	5		