

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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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL 19400		Additional Information Page No.	396 Cu. In. V-8 Engine 425 HP	
Wheelbase (L101)		23	98.0	
Tread	Front (W101)	22	56.8	
	Rear (W102)	22	57.6	
Maximum Overall Dimensions	Length (L103)	23	175.1	
	Width (W103)	22	69.6	
	Height (H101)	24	19437 49.6	19467 49.8
Transmission (Specify make name - opt., not available)	Manual	15	Synchromesh; 4-Speed Opt.	
	Overdrive	16	NA	
	Automatic	16	NA	
Axle ratio	Manual	17	3.36:1 (Positraction only)	
	Overdrive	17	NA	
	Automatic	17	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	
	Bore and stroke	2	4.094 x 3.76	
	Piston displ., cu.in.	2	396 Cu. In.	
	Std. compression ratio	2	11.0:1	
	Max. hp at engine rpm	2	425 @ 6400	
	Max. torque at rpm	2	415 @ 4000	

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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	48.4	
Max. eff. leg room - accelerator	L34	42.7	
Effective head room	H61	37.0	38.5
H Point to Heel point	H30	3.9	
Upper body opening to ground	H30	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.
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—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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MODEL 396 Cu. In. V-8 Engine 425 HP

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° OHV V-8
Bore and stroke (nominal)	4.094 x 3.76
Piston displacement, c.u. in.	396 Cubic Inch
Bore spacing (C/L to C/L)	4.84
No. system	L. Bank
(front to rear)	R. Bank
Firing order	1-3-5-7
Compress. ratio (nominal)	2-4-6-8
Cylinder Head Material	1-8-4-3-6-5-7-2
Cylinder Block Material	11.0:1
Cylinder Sleeve—Wet, dry, none	Cast alloy iron
Number of mounting points	Cast alloy iron
Front	None
Rear	Two
Engine installation angle	One
Torque $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{25}$	3°
Published max. bhp* @ eng. RPM	53.6
Published max. torque* (lb. ft. @ RPM)	425 @ 6400
Recommended fuel —regular — premium	415 @ 4000
Idle speed (spec. Manual neutral or drive) Automatic	Premium
	700

ENGINE—PISTONS

Material	Aluminum impact extruded
Description and finish	Domed head, slipper skirt
Weight (piston only) oz.	24.00
Clearance (limits)	Top land
	Skirt
	Top
	Bottom
Ring groove depth	No. 1 ring
	No. 2 ring
	No. 3 ring
	No. 4 ring

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

(a) Measured 2.13 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	Compr. Ratio	HP @ RPM	Torque @ RPM		A	B	C	D
19400	396 *	4-Bbl	11.0:1	425 @ 6400	415 @ 4000	4-Speed * 4-Speed Hvy.Dty*	3.36:1	4.11:1	3.70:1	3.08:1 3.55:1

- * - Optional
- ** - Available as positraction only
- A - General Purpose (Standard)
- B - Special Purpose or Mountain
- C - Performance Cruise
- D - High Performance

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MODEL 19400 396 Cu. In. V-8 Engine 425 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 Control
	No. 4, oil or comp.	---
Compression	Description - material, type, coating, etc.	Cast alloy iron; inside bevel Molybdenum coating
	Width	.0620-.0625
	Gap	.010-.020
Oil	Description - material, type, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails - Steel chrome plated OD Expander - Stainless steel
	Width	.1890-.1910 assembled
	Gap	.010-.030
Expanders		In oil ring assembly

ENGINE—PISTON PINS

Material		Chromium Steel
Length		2.930-2.950
Diameter		.9895-.9898
. . .	Locked in rod, in piston, floating, etc.	
	Locked in rod	
	Bushing	None
	Material	None
Clearance	In piston	.00045-.00055
	In rod	----
Direction & amount offset in piston		On center

ENGINE—CONNECTING RODS

Material		Drop forged steel
Weight (oz.)		30.00
Length (center to center)		6.134-6.136
Bearing	Material & Type	Premium Aluminum
	Overall length	.857
	Clearance (limits)	.0007-.0028
	End play	.0016-.0020

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19400 396 Cu. In. V-8 Engine 425 HP

MODEL _____

ENGINE—CRANKSHAFT

Material		Forged steel	
Vibration damper type		Rubber mounted inertia damper	
End thrust taken by bearing (No.)		Five	
Crankshaft end play		.006-.010	
Main bearing	Material & type		Premium aluminum except No. 5 sintered copper nickel backed babbitt
	Clearance		#1-4 .0006-.0022; #5 .0017-.0033
	Journal dia. and bearing overall length	No. 1	2.7506 x .992
		No. 2	2.7506 x .992
		No. 3	2.7506 x .992
		No. 4	2.7506 x .992
		No. 5	2.7513 x 1.2525
		No. 6	---
		No. 7	---
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.199-2.200	

ENGINE—CAMSHAFT

Location			In block above crankshaft		
Material			Cast alloy iron		
Bearings	Material		Steel backed babbitt		
	Number		Five		
Type of Drive	Gear or chain		Chain		
	Crankshaft gear or sprocket material		Steel sprocket		
	Camshaft gear or sprocket material		Cast aluminum sprocket		
	Timing chain	No. of links	50		
		Width	.880		
		Pitch	.500		

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		NA
Valve rotator, type (Intake, exhaust)		None
Rocker ratio		1.70:1
Operating tappet clearance (Indicate hot or cold)	Intake	.020
	Exhaust	.020
Timing marks on flywheel, damper, other		Harmonic Balancer

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MODEL **19400** 396 Cu. In. V-8 Engine 425 HP

ENGINE—VALVE SYSTEM (cont.)

Timing (A)	Intake	Opens (°BTC)	54°
		Closes (°ABC)	102°
		Duration - deg.	336°
	Exhaust	Opens (°BDC)	102°
		Closes (°ATC)	54°
		Duration - deg.	336°
Valve opening overlap		108°	
Intake	Material		Alloy steel - Aluminized face
	Overall length		5.204-5.224
	Actual overall head dia.		2.185-2.195
	Angle of seat & face		46° (seat) 45° (face)
	Seat insert material		None
	Stem diameter		.3715-.3722
	Stem to guide clearance		.0010-.0027
	Lift (@ zero lash)		.5197
	Outer spring press. and length	Valve closed (lb. @ in.)	94-106 @ 1.88
		Valve open (lb. @ in.)	303-327 @ 1.38
	Inner spring press. and length	Valve closed (lb. @ in.)	Spring Damper
		Valve open (lb. @ in.)	Spring Damper
	Exhaust	Material	
Overall length		5.345-5.365	
Actual overall head dia.		1.715-1.725	
Angle of seat & face		46° (seat) 45° (face)	
Seat insert material		None	
Stem diameter		.3710-.3717	
Stem to guide clearance		.0015-.0032	
Lift (@ zero lash)		.5197	
Outer spring press. and length		Valve closed (lb. @ in.)	94-106 @ 1.88
		Valve open (lb. @ in.)	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, etc.)	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

A - Includes lash of .020 for intake & exhaust.

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MODEL 19400 396 Cu. In. V-8 Engine 425 HP

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	50-75 @ 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.)	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.)	----
Branch wall thickness	2.50 x .072-.092
Main	2.00 x .023
Tail pipe diameter (O.D. & wall thickness)	

ENGINE—CRANKCASE VENTILATION SYSTEM

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

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MODEL **19400** **396 Cu. In. V-8 Engine 425 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 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
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Fine mesh plastic strainer in gas tank and
	Location	In-line paper element between carburetor & fuel line
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cle. 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	396	4-Speed	Holley	3868826	One; 4 Bbl Down-draft	1.686 Primary & Secondary
(a) - 36 gallon fiberglass tank available optionally						

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MODEL 19400 396 Cubic Inch V-8 Engine 425 HP

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		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)			
Cooling system capacity	With heater (qt.)		22
	Without heater (qt.)		21
	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)	One, molded
		Inside diameter	.725 - .765
Fan	Number of blades & Spacing		5. Staggered
	Diameter		17.00
	Ratio-fan to crankshaft rev.		.949:1
	Fan clutch type		Thermo-modulated - viscous coupling
	Bearing type		Double row ball
*Drive belts (Indicate belt used by letter)	Fan		A
	Generator		A
	Water Pump		A
	Power Steering		
	Air Conditioning		

* Drive Belt Dimensions	A
Angle of V	38° - 42°
Nominal length (SAE)	55.25
Width	.380 ± .005

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MODEL 19400 396 Cu. In. V-8 Engine 425 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
Generator	Terminal grounded		Negative
	Make		Delco-Remy
	Model		#1100696
	Type		Diode rectified
	Ratio—Gen. to Cr/s rev.		2.46:1
Regulator	Gen. cut-in (hot)—engine rpm		
	Make		Delco-Remy
	Model		1119515
	Type		
	Circuit 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 amp
		Other	None

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		#1107352
	Rotation (drive and view)		Clockwise
	Engine cranking speed		
	Test conditions		Engine at operating temperatures
	Lock 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 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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MODEL 19400 396 Cubic Inch V-8 Engine 425 HP

ELECTRICAL—STARTING SYSTEM (cont.)

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

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy
	Model		1115210
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		Delco-Remy
	Model		1111104
	Cent'gal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	1000
		Intermediate points deg. @ rpm	
		Max. deg. @ rpm	28° @ 4400
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° @ 8 in.
		Intermediate points, deg @ in Hg	
		Max. deg. in. Hg.	15° @ 15.5 in.
	Breaker gap (in.)		.019
	Cam angle (deg.)		28°-32°
Timing	Breaker arm tension (oz.)		19-23
	Crankshaft deg. @ rpm.		10° @ 700 rpm
	Mark location		Harmonic Balancer
	Cylinder numbering system (see page 2)		Left bank 1-3-5-7 Right bank 2-4-6-8
	Firing order (see page 2)		1-8-4-3-6-5-7-2
Spark Plug	Make and model		AC43N
	Thread (mm)		14
	Tightening torque (lb. ft.)		25
	Gap		.033 - .038
Cable	Conductor type		Linen core impregnated with conducting material
	Insulation type		Rubber with neoprene jacket
	Spark plug protector		Silicone

ELECTRICAL—SUPPRESSION

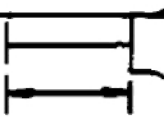
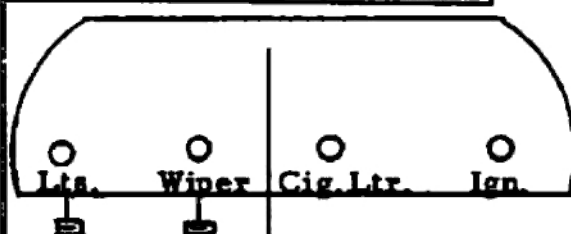
Locations & type	Non-metallic high tension cables
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 t. 96 Cu. In.
 Engine, L78
 MODEL 19400 19437 19467

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 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				
					@ Electric windows—center console. @ 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;

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Opt. 396 Cu. In. Engine, L78						
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.
Back up			2-1156		Opt.
Door	1-90	Std.		NA	
Glove compartment			1-1893		Std.
Prng. brake signal			1-257		Std.
Luggage compartment			NA		
Underhood			NA		
Courtesy	Instru. panel 2-90	Std.	Instru. panel 2-90; rx. compt. 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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 Displacement, Cu. In. 178
 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 use 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. compt. vent	
Direction indicator	AGC 4 (d)	motor	(f)
License plate lamp	(b)		
Instrument lamp	(d)		
Ignition lamp	(d)		
Back up lamp	(b)		
Door lamp	(c)		
Clock	(c)		
Clock lamp	(d)		
Radio	AGC 2.5 (e)		
Glove compartment lamp	(c)		
Cig. lighter	(b)		
Cig. lighter lamp	(d)		
Courtesy lamps	(c)		
Horn	AGC 10 (f)		
Door controls lamp	(d)		
Temp. gage	AGC 10 (g)		
Fuel gage	(g)		
Park brake alarm	(g)		
Hdpls. motor	40 CB (h)		
Hdpls. position ind.	(h)		

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lower	21.76
		Highest	21.76
	Stop		21.76
	Backup		21.76 (replace inboard tail lamps)
	License, rear		21.30
	Directional	Front	15.05
		Rear	21.76
	Headlamp	Inside	24.36
		Outside*	24.36
Distance from C/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		.32
	Directional	Front	28.32
		Rear	19.00 and 24.00
	Headlamp	Inside	15.36
		Outside*	21.66

* If single headlamps are used enter here.

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 19400 Opt. 396 Cu. In.
 MODEL Engine, L78

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Chevrolet, single dry disc, centrifugal	
Type pressure plate springs	Diaphragm; bent finger design	
Effective plate pressure (lb.)	2300-2600	
No. of clutch driven discs	One	
Clutch feeling	Material	Woven type asbestos
	Outside & inside dia.	10.40 & 6.50
	Total eff. area (sq.in.)	103.5
	Thickness	.135 ca.
	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.)	Opt - 4-Speed Required
Manual with overdrive (std. or opt.)	NA
Automatic (std. or opt.)	NA

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		4
Transmission ratios	In first	2.20:1
	In second	1.64:1
	In third	1.28:1
	In fourth	1:1
	In reverse	2.27:1
Synchronous meshing, specify gears		All forward gears
Shift lever location		Floor
Lubricant	Capacity (qt.)	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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4wd Opt, 396 Cu. In.

MODEL Engine, L78

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 (qt.) (Overdrive only)	
Separate filler (yes, no)			
Type recommended			
SAE viscosity number		Summer Winter Ext. cold	

DRIVE UNITS—AUTOMATIC TRANSMISSION NA

Trade name		
Type describe		
Method of Selection (Lever, Push Button or other)		
Selector Pattern — a. or ratios Selector Pattern and indicate which are used in each selector position		
Max. upshift speeds—drive range		
Max. kickdown speeds—drive range		
Torque converter	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, water)	
Lubricant	Capacity—refill (pt.)	
	Type recommended	
Special transmission features		

DRIVE UNITS—PROPELLER SHAFT

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

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

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.9400 Opt, 396 Cu. In.

MODEL Engine, L78

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mesh bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Universal joints	Make	Chevrolet
	Number used	2
	Type (ball and trunion, cross, other)	Cross
	Bearing	Anti-friction
	Type (plain, anti-friction)	Prepack
	Lubric. (fitting, 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 (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	3.70 (Positraction only) (a)
	Overdrive transmission	NA
	Automatic transmission	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
Lubricant	Capacity (qt.)	3.7
	Type recommended	For conventional axles. Military Spec. MIL-L-2105-B
	SAE vis- cosity number	Summer SAE 80
	Winter	SAE 80
	Extreme cold	SAE 80

(a) Refer to page 3 for optional axle ratios that are available

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.70
to. of teeth	Pinion	10
	Ring gear	37

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 L78
 MODEL 19400

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 50 mph.		
Inflation press. (cold)	Front	24
	Rear	24
Optional tires - size and ply		7.75x15-4PR rayon, W/W 7.75x15-4PR nylon (gold stripe)

BRAKES—SERVICE

Type (disc, drum, disc, balanced, etc.)		Caliper disc. 4-wheel hydraulic
Lining (std., opt., N.A.)		None required
Hydraulic system type (single, dual, etc.)		Single
Power brake make & type (vacuum, integral, etc.)		Delco-Moraine vacuum power unit assist 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 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		500
Shoe clearance adjustment		None required

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept areas for four brakes

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

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pt. 396 Cu. In. Engine,							
L78							
MODEL		19400					

BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Bonded	
	Front Shoe	Material		Woven asbestos	
		Size (length x width x thickness)	Front wheel	5.96 x 2.21 x .41	
			Rear wheel	5.96 x 2.21 x .41	
		Segments per shoe			One per wheel
	Rear Shoe	Material		Woven asbestos	
		Size (length x width x thickness)	Front wheel	5.96 x 2.21 x .41	
			Rear wheel	5.96 x 2.21 x .41	
		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 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.
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SUSPENSION—GENERAL (See Supplemental page 19 for details on Air Suspension)*

Provision for car leveling		Front and Rear 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 (stabilizer included); 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
Compressor drive ratio

*Normal operating pressures:
spring rates
leveling data

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 .96 Cu. In. Engine,
 L78 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
	Design load (lb. @ design height)	1380 @ 8.56
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel .875

STEERING

Manual (std., opt., NA)			Std.			
Power (std., opt., NA)						
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			
Turn--	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			Gear	16:1
		Overall			Street, 20.2:1; fast, 17.6:1	
	No. wheel turns		Street, 3.4; fast, 2.92			
Power	Type (cambar, linkage, etc.)		Linkage			
	Make		Saginaw			
	Gear	Type	Same as manual			
		Ratio			Gear	16:1
		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				
Drive link (trans. or front)		None				
Vib curb (one or two)		Two				

(a) Designed to provide 3" axial adjustment of steering column.

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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	.7492-.7497
	Thread size		3/4-20 NEF-3 (modified)
	Bearing type		Taper roller

SUSPENSION—REAR

Type and description			(b)	
Drive and torq. 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 mtd. @ diff.: vertical loading only @ shackles	
	If leaf	No. of leaves		9
		Inserts	Type and size	(c)
Material			Polyethylene with graphite	
Stabilizer	Shackle (comp. or none.)		--	
	Type (link, linkless, frameless)		Link	
	Material		A.I.S.I. C1085	
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, and stabilizer.
 (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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		396 Cu. In. Engine,						
		L78						
MODEL		19400		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 compt. 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
Roof glass type (i.e., compound curved - tempered plate, three pieces)		19367 soft top-flat flexible plastic, 1 piece 19467 hardtop-curved plexiglass, 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		821.5 440.5 (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 tailgate	NA
Power seats (specify type as well as availability)		NA
Reclining front seat back		NA
Front seat headrest		NA
Radio (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

Opt. 396 Cu. In. Engine,
L78

[illegible]

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

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