

AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	Camaro
MAILING ADDRESS	Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR	1967
		ISSUED:	12-22-66
		REVISED (*)	

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.

	396 Cu. In. V8-375 HP <u>Optional (L78)</u>
2-Door Sport Coupe, 4-Pass.	12437
2-Door Convertible, 4-Pass.	12467

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MAKE OF CAR Camaro MODEL YEAR 1967 DATE ISSUED 12-22-66 REVISED ^(*)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	12400 396 Cu. In. V-8 375 HP Opt (L78)
Wheelbase (L101)			108.0
Track	Front (W101)		59.0
	Rear (W102)		58.9
Maximum Overall Dimensions	Length (L103)		184.7
	Width (W103)		72.5
	Height (H101)		51.4
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	3-Spd. Heavy Duty optional
	Manual - 4 speed	15	Optional
	Overdrive	15	Not available
	Automatic	16	Not available
Axle ratio (See page 4 for optional axles)	Manual - 3 speed	17	3.07:1
	Manual - 4 speed	17	3.07:1
	Overdrive	17	Not available
	Automatic	17	Not available
Tire size		18	D70x 14
Engine	Type, no. cyl., valve arr.	3	90° V-8 OHV
	Fuel system (Carb., other)	10	Carburetor
	Bore and stroke	3	4.094 x 3.76
	Piston displ., cu. in.	3	396
	Std. compression ratio	3	11.0:1
	Max. bhp at engine rpm	3	375 @ 5600
	Max. torque at rpm	3	415 @ 3600

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GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	12437 Coupe	12467 Convertible
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FRONT COMPARTMENT

Shoulder room	W3	56.7	
Hip room	W5	56.3	
Max. eff. leg room - accelerator	L34	42.5	
Effective head room	H61	37.1	37.5
H Point to Heel point	H30	7.6	

REAR COMPARTMENT

Shoulder room	W4	53.8	47.3
Hip room	W6	54.5	47.5
Minimum effective leg room	L51	29.9	29.6
Effective head room	H63	36.7	36.8

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	8.3	5.6
Liftover height	H195	30.0	
Position of spare tire storage		Horz. over axle	Horz. right RR quarter
Method of holding lid open		Torsion bars	

STATION WAGON—THIRD SEAT

NOT AVAILABLE

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

STATION WAGON—CARGO SPACE

NOT AVAILABLE

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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12400
396 Cu. In. V-8
MODEL 375 HP Opt (L78)

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° OHV V-8
Bore and stroke (nominal)	4.094 x 3.76
Piston displacement, cu. in.	396
Bore spacing (C/L to C/L)	4.84
No. system	L. Bank
(front to rear)	R. Bank
Firing order	1-8-4-3-6-5-7-2
Compres. ratio (nominal)	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	Two
Engine installation angle	One
Taxable horsepower	4° 46'
Di ² xNo.Cyl.	53.6
Publishing max. bhp* @ eng. RPM	375 @ 5600
Publishing max. torque* (lb. ft. @ RPM)	415 @ 3600
Recommended fuel regular - premium	Premium
Idle speed (spec.) neutral or drive)	550 in neutral
Manual	-
Automatic	-

ENGINE—PISTONS

Material	Aluminum impact extruded
Description and finish	Domed head; slipper skirt
Weight (piston only) oz.	23.12
Clearance (limits)	Top land .0265-.0335
Skirt	Top .0036-.0042(a)
Bottom	
Ring groove depth	No. 1 ring .2253-.2318
	No. 2 ring .2253-.2318
	No. 3 ring .2113-.2127
	No. 4 ring

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

(a) Measured 2.25 from top of piston

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POWER TEAMS

(Indicate whether standard or optional)

"A" "B" "C" "D"

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO ** (Std. first) (Indicate A/C ratio)			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM					
12400	396 (Opt)	4-Bbl Down- draft	11.0:1	375 @ 5600	415 @ 3600	3-Spd (2.41:1 low)*	3.07	2.73	3.31	3.55 3.73
						4-Spd (2.20:1 low)* & 4-Spd. Hvy. Dty*				3.55 3.73 4.10 4.56 4.88
* - Optional ** - Positraction axle required for 4.10:1, 4.56:1 and 4.88:1; optional for all other ratios. A - Standard B - Economy - Optional C - Performance - Optional D - Special - Optional										

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MODEL

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-barrel face, no bevel - moly inlay
	material, coating, etc. Lower	Cast alloy iron-inside bevel tapered face-chrome plate
	Width	.0770-.0775 upper & lower
	Gap	.010-.030
Oil	Description -	Multi-piece (2 rails and one spacer expander)
	material, coating, etc.	Rails-steel, chrome plated OD; Expander-stainless steel
	Width	.1870-.1890 (assembled)
	Gap	.010-.030
Expanders		In oil ring assembly

ENGINE—PISTON PINS

Material		Chromium steel
Length		2.930-2.950
Diameter		.9895-.9898
Type	Locked in rod, in piston, floating, etc.	
	Bushing	Locked in rod
	In rod or piston	None
	Material	None
Clearance	In piston	.00025-.00035
	In rod	None
Direction & amount offset in piston		On center

ENGINE—CONNECTING RODS

Material		Drop forged steel
Weight (oz.)		27.84
Length (center to center)		6.130-6.140
Bearing	Material & Type	Premium aluminum
	Overall length	.857
	Clearance (limits)	.0009-.0029
	End play	.016-.020

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ENGINE—CRANKSHAFT

Material		Forged steel	
Vibration damper type		Rubber mounted inertia	
End thrust taken by bearing (No.)		5	
Crankshaft end play		.006-.010	
Main bearing	Material & type	Steel, backed insert bearing material-copper lead alloy or premium aluminum - for intended engine operation and application	
	Clearance	#1-2-(.0010-.0022) 3 & 4-(.0013-.0025) #5-(.0015-.0031)	
	Journal dia. and bearing overall length	No. 1	2.7505x.992
		No. 2	2.7505x.992
		No. 3	2.7505x.992
		No. 4	2.5705x.992
		No. 5	2.7506x1.252
		No. 6	None
		No. 7	None
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.199 x 2.200	

ENGINE—CAMSHAFT

Location	In block above crankshaft	
Material	Cast alloy iron	
Bearings	Material	Steel backed babbitt
	Number	5
Type of Drive	Gear or chain	Chain
	Crankshaft gear or sprocket material	Steel sprocket
	Camshaft gear or sprocket material	Cast alloy iron
	Timing chain	No. of links 50
		Width .880
		Pitch .500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	Not available	
Valve rotator, type (intake, exhaust)	None	
Rocker ratio	1.70:1	
Operating taper clearance (indicate hot or cold)	Intake	.024
	Exhaust	.028
Timing marks on flywheel, damper, other	Torsional damper	

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	44°
		Closes (°ABC)	92°
		Duration-deg.	316°
	Exhaust	Opens (°BBC)	86°
		Closes (°ATC)	36°
		Duration-deg.	302°
Valve opening overlap		80°	
Intake	Material		Alloy steel, face & head aluminized
	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		High alloy steel-aluminized face and head
	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		.3713-.3720
	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

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

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	50-75 psi @ 2000
Oil pressure sending unit (elect. or mech.)	Electric
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
Oil grade recommended (SAE viscosity and temperature range)	32° and above - SAE 20W, or SAE 10W-30 0°F to 32°F* - SAE 10W, or SAE 10W-30 Below 0°F - SAE 5W, or SAE 5W-20 *(SAE 5W-30 may be used at temperatures below freezing)
Engine Service Requirement (MM, MS, etc.)	MS or DG

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual exhaust & resonators; single muffler
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, w/two resonators
Exhaust pipe dia. (O.D., wall thickness)	Branch Front 2.25 x .073-.091 laminated Main Rear 2.25 x .071-.091
Tail pipe diameter (O.D. & wall thickness)	2.00 x .062-.076

ENGINE— CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard Optional	Ventilates to induction system ---
Make and model		---
Location		Rear of carburetor
Energy source (manifold vacuum, carburetor air stream, other)		Manifold vacuum
Control Unit		Variable orifice
Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		Intake manifold
Complete system		Breather cap
Flame arrester (screen, check valve, other)		Check valve

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ENGINE—EXHAUST EMISSION CONTROL

Manual Transmission

Type (Air injection, engine modifications, other)		Air injection	
Air Injection Pump	Type	Semi-articulated vane type	
	Displacement	19.3 cubic inch	
	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	3916145	
	Barrel size	1.561 (primary and secondary)	
	Idle speed	Drive Neutral	
Distributor	Aux. Adv. Systems (type)	None	
	Make	Delco-Remy	
	Model	1111170	
	Cent'lgal adv. in crank degrees @ eng. rpm.	Start (rpm)	900
		Intermed. points deg. @ rpm	17 @ 2000
		Max. deg. @ rpm.	32 @ 5000
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in. Hg)	7
		Intermed. points deg. @ in. Hg	
		Max. deg. @ in.	12 @ 12
	Vacuum Source		Carburetor
Timing - Crank degrees @ rpm		4 BTDC @ Idle	
Cooling System (describe changes)		195° thermostat	
Exhaust System (describe changes)		None	

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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.)	18 (approximately)
	Filler location	Center of rear end panel
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Right side front of engine
	Pressure range	7.25-8.50 psi
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Plastic mesh strainer in gasoline tank
	Locations	and sintered bronze filter in carburetor inlet
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Oil-wetted paper
		--

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
12400	396	3-Speed & 4-Speed	Holley	3916143	One; 4-Bbl	1.562 Prim. & Sec.

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			15 ± 1 psi
Circulation	Type (choke, bypass)		Choke
thermostat	Starts to open at (°F)		177°-183°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM @ 1000 pump rpm		82 @ 5200
	Number of pumps		One
	Drive (V-belt, other)		V-belt
	Bearing type		Permanently lubricated double row ball
By-pass recirculation type (internal, external)			Internal
Radiator core type (cellular, tube and fin, other)			Cross flow
Cooling system capacity	With heater (qt.)		23
	Without heater (qt.)		22
	Opr. equipment—specify (qt.)		24
Water jockers 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		18.00
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutoff type		Thermo-modulated-viscous coupling
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		AB
	Generator or alternator		A
	Water Pump		AB
	Power Steering		C
	Air Conditioning		

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V		38°-42°									
Nominal length (SAE)	55.50	34.40	37.30								
Width		.380±.005									

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco #1980030
	Voltage Rtg. & Total Plates		12 Volts-66 plates
	SAE Designation & Amp Hr. Rtg.		61 amp/hr @ 20 hr rate
	Location		Right side front engine compartment
Generator or Alternator	Terminal grounded		Negative
	Make		Delco-Remy
	Model		#1100693
	Type and rating		Diode rectified-37 amps
	Output at engine idle (neutral)		13 amps
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
	Regu- lated	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		1107365
	Rotation (drive end view)		Clockwise
	Engine cranking speed		---
	Test conditions		Engine at operating temperatures
	No load test	Amps	70-99
		Volts	10.6
RPM (min)		7800-12000	
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		3 and 4-Speed - Place gearshift lever in neutral, depress clutch to floor. Initial Start - Depress accelerator pedal to floor, then release. Turn ignition to START and release as soon as engine starts

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ELECTRICAL—STARTING SYSTEM (cont.)

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

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Not available
	Make		Delco-Remy
	Model		#1115039
	Amps	Engine stopped	4.0
Engine idling		1.8	
Distributor	Make		Delco-Remy
	Model		1111170
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	900
		Intermediate points deg. @ rpm.	17 @ 2000
		Max. deg. @ rpm.	32 @ 5000
		Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)
		Intermediate points, deg. @ in. Hg.	None
		Max. deg. in. Hg.	12 @ 12
	Breaker gap (in.)		.019
	Cam angle (deg.)		28°-32°
	Breaker arm tension (oz.)		19-23 oz
Timing	Crankshaft deg. @ rpm.		4 BTDC @ 550
	Mark location		Torsional damper
Spark Plug	Make		AC Spark Plug
	Model		AC 43N
	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		Neoprene

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ELECTRICAL—SUPPRESSION

Locations & type	Non-metallic high tension cables
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ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speedometer	Make	AC
	Trip odometer (yes, no)	Not available
Charge indicator—type		Tell-tale
Temperature indicator—type		Tell-tale
Oil pressure indicator—type		Tell-tale
Fuel indicator—type		Electric gauge
Other		Refer to page 23
Windshield wiper	Make	Delco-Products
	Type—Standard	Electric 2-speed
	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	Pushbutton-standard
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(Low note) 4.5-6.5 @ 12.5V. (Hi note) 4.2-6.2 @ 12.5V.

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		3 and 4-speed
Type pressure plate springs		Single dry disc, semi-centrifugal
Total spring load (lb.)		Diaphragm-bent finger design
No. of clutch driven discs		2450-2750
Clutch facing	Material	One
	Outside & inside dia.	Premium grade-woven asbestos
	Total eff. area (sq. in.)	11.00 & 6.50
	Thickness	123.70
	Engagement cushioning method	.1400 each
Release bearing	Type & method of lubrication	Flat spring steel between facings
	Methods: springs, friction material	Single row ball, packed and sealed
Torsional damping		Coil springs

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DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION HD

Number of forward speeds		3-Spd	4-Spd
		3	4
Transmission ratios	In first	2.41:1	2.20:1
	In second	1.57:1	1.64:1
	In third	1.00:1	1.27:1
	In fourth	---	1.00:1
	In reverse	2.41:1	2.26:1
Synchronous meshing, specify gears		All forward gears	
Shift lever location		Floor	
Lubricant	Capacity (pt.)	3.5	3
	Type recommended	Military Spec. MIL-L-2105B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

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DRIVE UNITS—AUTOMATIC TRANSMISSION

NOT AVAILABLE

Trade name	
Type describe	
Method of Selection (Lever, Push Button or other)	
Selector Pattern	
List gear 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, liquid)
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 thickness	Manual 3-speed transmission 2.75 x 50.46 x .065 Manual 4-speed transmission 2.75 x 50.46 x .065 Overdrive transmission Not available Automatic transmission Not available

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

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MODEL 396 Cu. In. V-8
375 HP Opt (L78)

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter- mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, 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)
		Pre-pack
Drive taken through (torque tube or arms, springs)		Mono-leaf rear spring & rear axle radius rods
Torque taken through (torque tube or arms, springs)		Mono-leaf rear spring & rear axle radius rods

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		Two
Ring gear O.D. (std. ratio)		8.875
Pinion adjustment (shim, other)		None
Pinion bearing adj. (shim, other)		Shim
Wheel bearing type		Single row cylindrical roller
Lubricant	Capacity (pt.)	4.0
	Type recommended	Military Specs MIL-L-2105-B
	SAE vis- cosity 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		2.73	3.07	3.31	3.55
No. of teeth	Pinion	15	14	13	11
	Ring gear	41	43	43	39
Axle ratio		3.73	4.10	4.56	4.88
No. of teeth	Pinion	11	10	9	8
	Ring gear	41	41	41	39

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DRIVE UNITS—WHEELS

Type & material		Short spoke spider
Rim (size and flange type)	Std.	14 x 6.0 JK
	Opt.	---
Attachment	Type (bolt or stud)	Stud
	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	D70 x 14
	Type - Nylon, etc.	Original equipment
Rev./mile at 50 mph.		855
Inflation press. (cold)	Front	28
	Rear	28
Optional tires - size and ply		---

BRAKES—SERVICE

		Standard	Metallic (Opt)	Front Disc (Opt)
Type (duo-servo, disc, balanced, etc.)		Duo-Servo 4-wheel hydraulic		Disc
If adjusting (std., opt., N.A.)		Standard		
Hydraulic system type (single, dual, etc.)		Dual		
Power brake make & type (remote, integral, etc.)		Bendix Delco-Moraine vacuum power unit Assists master cylinder; integral		
Effective area (sq. in.) *		168.9	118.1	114.0
Gross lining area (sq. in.) **		168.9	118.1	118.1
Swept drum area (sq. in.) ***			268.6	332.4
Percent brake effectiveness—front			62.3	58.9
Drum or Rotor	Diameter	Front	9.5	11.0
		Rear	9.5	
	Type and material	Composite; steel web, cast iron rim		
	Rotor (vented or solid)	---		
	No. pistons per caliper	---		
Wheel cyl- inder bore	Front	1.125		1.875
	Rear		.875	
Master cylinder bore		1.00	.875	1.00
Available pedal travel			6.5	7.2
Line pressure at 100 lb. pedal load		790	1031	790
Shoe clearance adjustment		Self-adjusting		

* Excludes rivet holes, grooves, chamfers, etc.

(Continued)

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

*** Total swept area for four brakes:

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

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BRAKES—SERVICE (cont.)				Standard	Metallic (Opt)	Front Disc (Opt)
Brake lining	Drum or Disc			Drum		Disc
	Bonded or riveted			Bonded	Welded	Riveted
	Front Wheel	Material		Molded asbestos	Sintered iron	Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	9.01 X 2.50 x .17	1.64 x 2.50 x .150	5.96 x 2.21 x .41
			Second. or in-board	9.75 x 2.50 x .20	1.64 x 2.50 x .265	5.96 x 2.21 x .41
		Segments per shoe		One	Pri 3, Sec 5	One
	Rear Wheel	Material		Molded asbestos	Sintered iron	Molded asbestos
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.00 x .17	1.64 x 2.00 x .150	9.01 x 2.00 x .17
			Second. or in-board	9.75 x 2.00 x .20	1.64 x 2.00 x .265	9.75 x 2.00 x .20
		Segments per shoe		One	Pri 3, Sec 5	One

BRAKES—PARKING

Type of control	Pulley-cable linkage-foot pedal apply-handle release		
Location of control	Below instrument panel, left of steering column		
Operates on	Rear service brakes		
If separate from disc brakes	Type (internal or external)		--
	Drum diameter		--
	Lining size (length x width x thickness)		--

FRAME

Type and description (Separate frame, unitized frame, partially unitized frame)	Combination body-frame integral with separate forward portion ladder frame
---	--

STEERING

Manual (std., opt., NA)			Standard-energy absorbing steering column		
Power (std., opt., NA)			Optional		
Adjustable steering wheel (tilt, swing, other)		Type and description	Tilt type		
		(std., opt., NA)	Optional		
Wheel diameter		Manual	16.25		
		Power	16.25		
Turning diameter:	Outside front	Wall to wall (l. & r.)	39.7		
		Curb to curb (l. & r.)	37.0		
	Inside rear	Wall to wall (l. & r.)	20.6		
		Curb to curb (l. & r.)	21.1		
Outside wheel angle with inside wheel at 20°			18.5		
al	Gear	Type		Semi-reversible, recirculating ball nut	
		Make		Saginaw	
		Ratios	Gear	Std. 28:1	Fast 24:1
			Overall	Std. 28:1	Fast 21.6:1
	No. wheel turns		4.0 lock to lock		

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STEERING (cont.)

Power	Type (coaxial, linkage, etc.).			Coaxial
	Make			Saginaw
	Gear	Type		Same as manual
		Ratios	Gear	17.5:1
			Overall	Std. 17.5:1
	Pump driven by			Crankshaft pulley
Number wheel turns			3.0 lock to lock	
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Rear of wheels
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two
Steering Axis	Inclination at camber (deg.)			8-1/4 to 9-1/4
	Bearings (type)	Upper	Ball stud with non-metallic bearing surface	
		Lower	Ball stud with metallic bearing surface	
		Thrust	None	
Wheel ment ge at curb weight and pre- ferred)	Caster (deg.)			0 to P1
	Camber (deg.)			N1/4 to P3/4
	Toe-in (outside track inches)			1/8 to 1/4
Steering spindle & joint type				Forging with pad for mounted brake cylinder-spherical
Wheel spindle	Diameter	Inner bearing	1.2493-1.2498	
		Outer bearing	.7493-.7498	
	Thread size			3/4-20 NEF-3 (Modified)
	Bearing type			Taper roller

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SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling	Front stabilizer bar
Provision for brake dip control	Front suspension geometry
Provision for acc. squat control	Rear suspension geometry
Special provisions for car jacking	Front: 3-3/4 in. inboard of bumper bolt Rear: 2-1/2 in. inboard of bumper bolt
Shock absorber front & rear	Type Direct, double acting hydraulic Make Delco Piston dia. 1.00
Other special features	Single leaf rear springs

SUSPENSION—FRONT

Type and description	Independent: SLA type with coil spring and concentric shock absorber and spherically-joined steering knuckle for each wheel.		
Spring	Type	Coil, right hand helix	
	Material	Steel alloy	
	Size (coil design height & I.D.; bar length x dia.)	11.09 x 3.63 123.04 x .659	11.09 x 3.63 122.77 x .650
	Spring rate (lb. per in.)	410	390
	Rate at wheel (lb. per in.)	136	131
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	HR steel .6875	

SUSPENSION—REAR

Type and description		Salisbury rear axle with two single leaf springs	
Drive and torque taken through		Rear springs & radius rods	
Spring	Type	Single-leaf	
	Material	Chrome carbon steel	
	Size (length x width, coil design height & I.D.; bar length & dia.	56.0 x 2.25	
	Spring rate (lb. per in.)	115	
	Rate at wheel (lb. per in.)	121	
	Mounting insulation type	Rubber bushed at shackle and hanger	
	If leaf	No. of leaves	One
	Shackle (comp. or tens.)	Compression	
Stabilizer	Type (link, linkless, frameless)	None	
	Material	--	
Track bar type		None	

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MODEL 12437 12467

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Not available
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Ident. No. location		Left front body hinge pillar
Engine No. location		8-Cyl-on top front of RH bank of cylinder and case
Theft protection - type		Shielded ignition lock terminals key removable in "OFF" position
Vent window control method (crank, friction pivot)	Front	Friction pivot
	Rear	None
Seat cushion type	Front	Formed wire and foam pad
	Rear	Formed wire and cotton
	3rd seat	None
Seat back type	Front	Formed wire and foam pad
	Rear	Formed wire and cotton
	3rd seat	None
Windshield glass type (i.e., single curved - laminated plate)		Curved-laminated
Side glass type (i.e., curved - tempered plate)		Curved
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved Plastic
Windshield glass exposed surface area		1032.6 990.5
Side glass exposed surface area		1083.7 1093.8
Backlight glass exposed surface area		819.2 834.0
Total glass exposed surface area		2935.5 2918.3

LAMP HEIGHT AND SPACING

			Coupe		Convertible	
			Std.	Rally Sport	Std.	Rally Sport
Height above ground to center of bulb	Headlamp	Highest *			25.5	
		Lowest			---	
	Tail	Highest			24.3	
		Lowest	--	--	24.3	24.3
Distance from C/L of car to center of bulb	Headlamp	Inside			---	
		Outside *			24.4	
	Tail	Inside	--	20.0	--	20.0
		Outside			23.3	
	Directional	Front	17.0	23.6	17.0	23.6
		Rear			23.3	

* If single headlamps are used enter here.

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MODEL		<u>12437</u>	<u>12467</u>
CONVENIENCE EQUIPMENT (Indicate whether standard, optional or NA on each series)			
Power windows	Side Windows	Optional	
	Vent Windows	Not available	
	Backlight or tailgate	Not available	
Power seats (specify type as well as availability)		Not available	
Reclining front seat back		Not available	
Front seat headrest		Optional	
Radios (specify type as well as availability)		Optional-AM-Manual, AM-Push-button, AM-FM Push-button	
Rear seat speaker		Optional	
Power Antenna		Not available	
Clock		Optional	
Air Conditioner (specify type and availability)		Not available	
Speed warning device		Optional	
Speed control device		Optional	
Ignition lock lamp		Not available	
Back up lamp		Standard	
Dome lamp		Standard 12437	Not available
Glove compartment lamp		Optional	
1. brake signal lamp		Standard	
Gage compartment lamp		Optional	
Underhood lamp		Optional	
Courtesy lamp		Optional 12437	Standard 12467
Map lamp		Not available	
Auto. trans. quad. lamp		Standard	
Emergency flasher lamp, Four-way		Standard	
Cornering light lamp		Not available	
Free-way lane change signal		Standard	
Instrument panel pad		Standard	
Left hand outside mirror		Standard	
Padded sun shades		Standard	
Brake system warning and parking brake light		Standard	
Steering column energy absorbing		Standard	

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