ORIGINAL 2731CAMA-71

GENERAL

AMA Specifications Form—Passenger Car

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MAKE OF CAR CAMARO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (•)

OPTIONAL EQUIPMENT WEIGHTS

Equipment Differential Weights	WEIGHT POUNDS Front	Rear	Total	Remarks
Rally Sport Package	+ 29	- 2	+ 27	
Deluxe Interior	+ 11	+17	+ 28	
Power Brakes	+ 9	+ 1	+ 10	
Power Steering	+ 29		+ 29	
Radio AM, Push button	+ 6	+ 2	+ 8	
Radio AM/FM Push button	+ 6	+ 2	+ 8	
Air Conditioning	+100	+12	+112	
Floor Console	+ 9	+ 3	+ 12	With 3-speed transmission
	+ 9	+ 3	+ 12	With 4-speed transmission
	+ 14	+ 4	+ 18	With automatic transmission
350 Cu. In. L65 (245 HP)	+ 14	+ 1	+ 15	
350 Cu. In. L48 (270 HP)	+ 29	+24	+ 53	
402 Cu. In. LS3 (300 HP)*	+182	+25	+207	
350 Cu. In. Z28 (330 HP)*	+ 61	+56	+117	
4-Speed Transmission	+ 4	+ 2	+ 6	Used with L65
	- 4	- 2	- 6	Used with L48, LS3, & Z28
Powerglide transmission	- 13	-10	- 14	Used with L-6
	- 10	0	- 10	Used with 307 cu. in.
Turbo Hydra-matic Trans.	+ 18	+ 9	+ 27	Used with 307, L65 & L48
	+ 28	+14	+ 42	Used with LS3 & Z28

* Available as "SS" equipment only; engine weight only shown and does not include additional weight for body and chassis items.

SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

VEHICLE SERIAL NUMBER

6-Cylinder Example:

Model	Model Year 1971	Assembly Plant Van Nuys	Unit Number (1st unit)
12387	1	L	500001

Thus: The 1st model built at Van Nuys would be serial number 123371L500001

8-Cylinder Example:

Model	Model Year 1971	Assembly Plant (Norwood)	Unit Number (1st unit)
12487	1	N	500001

Thus: The 1st model built at Norwood would be serial number 124871N500001

ASSEMBLY PLANTS

L – Van Nuys
N – Norwood

Starting unit number . . . . . 500001 and up at each assembly plant regardless of series

Location . . . . . Stamped on plate attached to top left hand of instrument panel

TRANSMISSION IDENTIFICATION

● Example: S1E01

Type Designation	Source Designation	Model Year 1971	Production° Month & Date
R3	S (Muncie)	1	E01D*

● R3	3-Speed	L-6	S - Muncie
● R4	3-Speed	V-8 engine	S - Muncie
WN	4-Speed	V-8 engine	R - Muncie
TH	Powerglide	L-6 engine	C - Cleveland
			E - Mc Kinnon Ind.
TJ	Powerglide	V-8 engine	C - Cleveland
			E - Mc Kinnon Ind.
HW	Turbo Hydra-Matic	V-8 engine	B - Cleveland
			Y - Toledo
CY	Turbo Hydra-Matic	V-8 engine	– - Ypsilanti

Location:

● 3-Speed . . . . . Stamped on left side just below cover.

● 4-Speed . . . . . Stamped on the right side of the case at adapter.

Powerglide, Torque Drive, Turbo Hydra-Matic (Chevrolet) . . . . . Stamped on right hand side of pan.

Turbo Hydra-Matic . . . . . Nameplate tag on right hand side of case.

o-Month: E denotes May; (see below) 01 denotes 1st day
Alpha Characters used in identifying the Calendar month

A - January	D - April	K - July	R - October
B - February	E - May	M - August	S - November
C - March	H - June	P - September	T - December

*-The letter "D" or "N" following the date numberals
● indicates day or night shift, on automatic only.

ENGINE IDENTIFICATION

Example: F1210CAA

Source Designation	Production* Month & Date	Type Designation
F (Flint)	1210	CAA

250 Cubic Inch 6-Cylinder

CAA - Regular engine, 3-speed
CAB - Regular engine, Powerglide

307 Cubic Inch 8-Cylinder

CCA - Regular engine, 3-speed
CCC - Regular engine, Powerglide
CCC - Regular engine, Turbo Hydra-Matic (Chevrolet)

350 Cubic Inch 8-Cylinder (RPO L65)

● CGA - Optional engine, 4-speed, 2-bbl. carb.
● CGC - Optional engine, Turbo Hydra-Matic (Chevrolet)

350 Cubic Inch 8-Cylinder (RPO L48)

CGP - Optional engine, 4-speed, 4-bbl. carb.
CGR - Optional engine, Turbo Hydra-Matic (Chevrolet)

350 Cubic Inch 8-Cylinder (RPO Z28)

CGP - Optional engine, 4-speed, 4-bbl. carb.
CGR - Optional engine, Turbo Hydra-Matic (Chevrolet)

402 (SS396) Cubic Inch 8-Cylinder (RPO LS3)

● CLA - Optional engine, 4-speed, 4-bbl. carb.
● CLB - Optional engine, Turbo Hydra-Matic

Location:

6-cylinder engine . . . Stamped on pad on right side of cylinder block to rear of distributor

8-cylinder engine . . . . . Stamped on pad at front right side of cylinder block

*-Month: December, 12; 10th day of December, 10.

REAR AXLE IDENTIFICATION

Location, Identification Number

Bottom left or right of axle tube adjacent to carrier housing.

See Power Train Section for additional Information.

STANDARD AND OPTIONAL APPEARANCE EQUIPMENT
EXTERIOR

FRONT	STANDARD	STYLE TRIM RPO Z21	RALLY SPORT RPO Z22
Header Panel Nameplate "C" and "Camaro"	X	X	X
Valance Mounted Parking Lamp with Clear Lens and Amber Bulb	X		
Valance Mounted Parking Lamp with Bright Bezel, Clear Lens and Amber Bulb		O	
Special Parking Lamp Adjacent to Headlamp with Bright Bezel and Ornament			O
Single "Power-Beam" Headlamps	X	X	X
Bright Headlamp Bezel	X	X	X
Argent Colored One-piece Radiator Grille	X	X	
Special Two-piece Black Painted Radiator Grille with Argent Painted Leading Edges			O
Bright Radiator Grille Outline Molding	X	X	X
One-piece Bumper with Dual Bumper Guards	X	X	
Individual R and LH Bumper; Resiliant Grille Frame with Rubber Protected Center Grille Section of Bumper Stock			O
License Plate Mounting Provision at Front Right Bumper			O
License Plate Mounting Provision in Center	X	X	
Bright Top and Side Windshield Reveal Molding	X	X	X
Two-Speed Windshield Wipers and Washers	X	X	X
Non-Depressed Park – Dull Chrome Wiper Arms and 16" Blades	X	X	
Concealed Black Chrome Finished Wipers– Articulated Left Blade and 18" Wiper Blades			O
Bright Hood and Fender Upper Edge Molding		O	O

NOTE: "O" indicates deviation from standard equipment, but included in the optional package.

STANDARD AND OPTIONAL APPEARANCE EQUIPMENT
EXTERIOR

SIDE	STANDARD	STYLE TRIM RPO Z21	RALLY SPORT RPO Z22
Front Marker Lamp with Amber Lens–No Bezel	X	X	X
Engine Displacement Numerals on Fender **	O	O	O
Front Fender Nameplate "Camaro"	X	X	
Option Identification Nameplate on Front Fender *			O Rally Sport
Rectangular LH Rear View Mirror	X	X	X
Bright Chrome Flush Door Handles	X	X	X
Body Colored Tape Insert on Flush Door Handles		O	O
Bright Wide Rocker Panel Moulding	X	X	X
Bright Body Lock Pillar Vertical Molding		O	O
Bright Lower Window Sealing Strip Bead	X		
Bright Body Lock Pillar Vertical Seal Retainer	X		
Bright Roof Moldings		O	O
Bright Door Belt Reveal Moulding		O	O
Hub Caps	X	X	X
Rear Marker Lamp with Red Lens–No Bezel	X	X	X

REAR			
Deck Lid Nameplate "Camaro'	X	X	X
Bright Rear Window Reveal Moldings	X	X	X
Dual Rear End Panel Mounted Tail and Back-up Lamps with Bright Outer Bezel	X		
Tail and Back-up Lamps with Dual Concentric Bright Bezels		O	O

*When SS or Z/28 options are combined with RS option, SS or Z/28 identification takes precedence over Rally Sport.

**Engine Displacement I.D. Plate only with optional V-8 engines.

NOTE: "O" Indicates deviation from standard equipment, but included in optional package.

STANDARD AND OPTIONAL APPEARANCE EQUIPMENT
INTERIOR

INSTRUMENT PANEL AND STEERING WHEEL	STANDARD	SPECIAL INTERIOR GROUP RPO Z23	CUSTOM INTERIOR RPO Z87
Trim Color Instrument Panel Pad	X	X	X
Bright Accented Black Instrument Cluster	X		
Wood Grain Applique on Instrument Cluster		O	O
Glove Compartment Door Lock	X	X	X
"Camaro" Glove Compartment Nameplate–Script	X	X	X
Bright Side Kick-pad Ventilation Control Knob	X	X	X
Bright Astro-Ventilation Control Knob	X	X	X
T-Handle Parking Brake Release	X	X	X
Instrument Panel Astro-Ventilation Outlets	X	X	X
Windshield Wiper and Washer Switch (Slide-Type, Depress to Wash)	X	X	X
Lighting Control Knob - Black with symbol	X	X	X
Speedometer, Odometer, and Fuel Gauge	X	X	X
Temperature, Generator, Oil Pressure and Brake Warning Tell-Tale Lights	X	X	X
Hi-Beam and Turn Signal Indicators	X	X	X
Glove Compartment Lamp		O	O
Automatic Shift Quadrant Cover Plate	X	X	X
Clock Hole Cover	X	X	X
Radio Hole Cover	X	X	X
Ash Tray	X	X	X
Cigarette Lighter Knob - Black with symbol	X	X	X
Blended Air Heater with Illuminated Control Plate	X	X	X
Black Steering Column	X	X	X
Black Plastic Oval Two-Spoke Steering Wheel with Soft Black Shroud and Decorative Insert. Entire Top Surface Horn Blowing Pad	X	X	X
Wood-Grain Horn Blowing Shroud Insert †		O	O
Steering Wheel Shroud Insert Emblem *	"Chevrolet"	"Camaro"	"Camaro"
Steering Column Ignition Switch with Integral Steering Wheel and Transmission Lock	X	X	X
Hazard Flasher Knob - Black	X	X	X
Soft Black Turn Signal Knob	X	X	X
Argent Finish Accent Beads on Lower Instr. Pnl.		O	O
One Low-Note Horn	X	X	X

* Steering wheel shroud emblem is replaced by "RS" if Rally Sport option is ordered.
† Insert is black with Rally Sport package.

NOTE: "O" indicates deviation from standard equipment, but included in the optional package.

STANDARD AND OPTIONAL MAJOR APPEARANCE EQUIPMENT
INTERIOR

	STANDARD	SPECIAL INTERIOR GROUP RPO Z23	CUSTOM INTERIOR RPO Z87
ROOF AND PILLARS			
Premier Vinyl Coated Headlining–Perforated	X	X	X
Trim Color Windshield Header, Pillar, Roof Side Rails, and Rear Window Moldings	X	X	X
10-Inch Prismatic Rear View Mirror with Gray Padded Edges	X	X	X
Argent Painted Rear View Mirror Support, Windshield Mounted	X	X	X
Padded Sunshades	X	X	X
Plastic Coat Hooks	X	X	X
Center Dome Lamp with Bright Bezel	X	X	X
Door Jamb Switches	X	X	X
Black Front Seat Shoulder Belt Anchor Covers	X	X	X
Front Seat Shoulder Belt Retention – Bright Clip and clear Plastic Hanger	X	X	X
SEATS AND FLOOR COVERING			
Bucket Front Seats with integral head restraints	X	X	X
Deluxe Seat Trim			O
Rear Seat–Dual Cushions with Single, Full-width Backrest–Cotton Padded	X	X	X
Black Front Seat Adjuster Handle	X	X	X
Bright Front Bucket Seat Back Latch	X	X	X
Passenger Compartment Floor Covering-Carpet	X	X	X
Luggage Compartment Spatter Paint	X	X	
Luggage Compartment Rubber Floor Mat			O
Front and Rear Seat Belts - Four	X	X	X
Front Shoulder Belts - Two	X	X	X
DOOR AND QUARTER PANEL			
Door Padded Armrest	X	X	X
Built-in Rear Quarter Panel Armrest	X	X	X
Clear Plastic Window Control Handle Knobs	X	X	X
Bright Door Lock Buttons	X	X	X
Vinyl and Plastic Door, and Plastic Quarter Trim	X	X	X
Wood Grain Insert on Door Trim Panel with Bright Die-cast Perimeter Moldings			O
Recessed Door Handle	X	X	X
Trim Colored Inside Door Handle Cup and Bezel	X	X	X
MISCELLANEOUS			
Additional Body Insulation			O
Full Molded Hood Insulation			O
Cowl-To-Fender Seal			O
Soft Black Transmission Shift Lever Knob with White Shift Pattern	X	X	X
Floor-mounted Transmission Shift Lever	X	X	X

NOTE: "O" indicates deviation from standard equipment, but included in the optional package.

EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
Air Conditioning, Four-Season: V8 models only	C60	
Battery, heavy duty	T60	
Belts, seat and shoulder: in addition to or replacing standard belts.		
Custom deluxe belts: (replacing standard number of belts)		
4 Seat and 2 shoulder	AK1	
Shoulder belts – 2 rear:		
● For use when Custom Deluxe Belts are ordered		ACC
Bumpers, deluxe front and rear	VF3	
Cap, locking gas filler		ACC
Carrier, rear deck		ACC
Compass		ACC
Console, floor	D55	
Dispenser, Tissue		ACC
Fire extinguisher		ACC
Glass, Soft-Ray tinted: all windows	A01	
Harness, trailer wiring		ACC
Hitch, trailer		ACC
Highway Emergency Kit – fire extinguisher, tire inflator, fuses		ACC
Hood pins, key locked		ACC
Instrumentation, special	U14	
Lighting, auxiliary:	ZJ9	
Courtesy lights		ACC
Glove compartment light		ACC
Luggage compartment light		ACC
Ash tray light		ACC
Underhood light		ACC
Litter container		ACC
Mirror, RH	D35	
Mirror, Sport – LH (Remote Control)		ACC
Mirror, Sport – RH		ACC
Monitor, windshield washer fluid	V01	
Radiator, heavy duty		
Radio equipment: Radios, Pushbutton – Includes concealed w/s antenna		
AM Radio	U63	ACC
AM/FM Radio	U69	ACC
Speaker, rear seat	U80	ACC
Windshield antenna (When no radio is ordered)	U76	

EQUIPMENT	RPO	ACC.
Roof cover, vinyl	C08	
Safety seat – child		ACC
Safety seat – infant		ACC
Seat Back, Driver's Adjustable	AN6	
Ski rack – roof mount		ACC
Spoilers, rear deck and Front Valance	D80	
Steering wheel, Comfortilt: Available only when automatic transmission is ordered	N33	
Steering wheel, sport	NK4	
Steering wheel, Vinyl Rim	NK2	
Suspension, special front and rear:	F41	
Windshield wipers – Hide-away	C24	
Wheel covers, full:	P01	
Wheel covers, special:	P02	
Wheel covers, wire		ACC
Wheels, rally	ZJ7	
FEATURE GROUPS (Any item contained in a feature group may be ordered separately)		
Appearance guard group	ZP5	
Door edge guards	B93	ACC
Color-keyed floor mats – 2 Front, 2 Rear	B37	ACC
Visor vanity mirror	D34	ACC
Operating convenience group	ZQ2	
Electric clock	U35	ACC
Rear window defroster (Forced Air)	C50	
MODEL OPTIONS		
Camaro SS	Z27	
Custom Interior	Z87	
Interior Accent Group	Z23	
Rally Sport	Z22	
Style Trim	Z21	
Special Performance Package	Z28	
POWER ASSISTS		
Brakes, Power	J50	
Steering power: variable ratio	N40	

FOUR SEASON (RPO C60)

Heater integrated; manually controlled by two horizontal and one verticle lever. Four position verticle lever controls fan speed. Top lever controls mode of operation. Bottom lever controls air flow. Ignition switch controlled fan is always operating at low speed to prevent windshield fogging.

BASIC COMPONENTS

Evaporator, blower, condenser, receiver - dehydrator, refrigerant (freon) tank, air intake assembly and duct assembly for both systems.

EQUIPMENT (Used in addition to or in place of base equipment)

CHASSIS

Front and Rear Springs	Heavy duty
Rear Axle Ratio - Refer Power Trains Section	

POWER TRAINS

Fan Blade	7 blade
Fan Clutch	Thermomodulated fluid coupling
Crankshaft Pulley	Dual
Water Pump & Fan Pulley	Dual
Compressor & Crankshaft Belt	One
Generator	61 Ampere
Radiator	Heavy duty

CHASSIS

FRAME AND FRONT SUSPENSION

FRAME
- Description . . . . . Combination body-frame integral with separate portion ladder frame.

FRONT SUSPENSION
- Description . . . . . Independent, SLA type with coil springs, center mounted shock absorbers and spherical steering knuckle pivots.
- Wheel travel (M/M @ design load)
  - Total 6.88
  - Jounce 3.05
  - Rebound 3.85
- Wheel to spring travel ratio 1.84

CONTROL ARMS
- Description . . . . . Reinforced steel stamping with pre-loaded, steel encased, rubber bushings at pivots.

STEERING KNUCKLES
- Description . . . . . Forged steel with integral brake cylinder mounting pad and detachable steering knuckle arm.
- Spindle diameters
  - Inner bearing 1.2493-1.2498
  - Outer bearing 7492-.7497
- Spindle thread size . . . . . 3/4-20 NEF-3 (modified)
- Wheel bearings
  - Type . . . . . Taper roller; inner and outer

SPHERICAL JOINTS
- Type . . . . . Ball stud
  - Upper . . . . . Compression
  - Lower . . . . . Tension
- Bearing surfaces
  - Upper . . . . . Teflon-cotton composite on phenolic
  - Lower . . . . . Sintered iron

SHOCK ABSORBERS
- Type . . . . . Direct, double acting, hydraulic
- Piston diameter 1.00

FRONT STABILIZER BAR
- Type . . . . . Link
- Material . . . . . HR steel
- Diameter 938

FRONT WHEEL ALIGNMENT (CURB)
- Camber (degrees) . . . . . P1/4 to P1-3/4
- Caster (degrees) . . . . . N1 to P1
- Toe-in (total) . . . . . 1/16 to 5/16
- Steering axis inclination (degrees) . . . . . 9 to 10
  - Z28 Exceptions
    - Camber (degrees) . . . . . N1-1/2 to zero
    - Caster (degrees) . . . . . N2 to zero
- Steering axis inclination (degrees) . . . 9-1/4 to 10-1/4

GENERAL SUSPENSION PROVISIONS
- Car leveling . . . . . Front stabilizer bar
- Anti-dive control . . Angle of front upper control arm
- Anti-squat control . . . . . Rear suspension geometry

FRONT SPRINGS

Selected from a family of springs by Electronic Data Processing which identifies the correct spring for the weight of the vehicle including optional equipment ordered by the customer.

FRONT SPRING SPECIFICATIONS

MODEL	ENGINE	SUSPENSION TYPE	PART NO.	CODE	DEFLECTION RATE LBS/IN	CURB SPRUNG WHEEL LOAD PER WHEEL (LBS)	LOAD @ 11.00 CHECKING HT. (LBS)
12387, 12487	L6, V8, L65 L48, L34, LS6	ALL	3982341	EF	300	0 – 798	1680
			3982342	EG		799 – 828	1740
			3982343	EH		829 – 858	1800
			3982344	EI		859 – 888	1860
			3982345	EJ		889 – 905	1920
			3982354	HZ	330	906 – 924	1970
			3982355	YI		925 – 956	2035
			3982356	YR		957 – 987	2100
			*3988104	GL		988 – 1017	2165
			*3988105	GM		OVER 1017	2250
12487	Z28	ALL	3982345	EJ	300	0 – 847	1920
			3982346	EN		848 – 877	1980
			*3982347	EO		OVER 877	2040

RPO	DESCRIPTION
F40	H.D. Fr. & Rr. Susp.
F41	Spec. Performance Fr. & Rr. Susp.
L48	350 CID V-8
L65	350 CID V-8, 2 Bbl.
Z28	350 CID V-8 - Special
L34	Engine - V8 402 CID (SS 396) High Perf.

MANUAL STEERING

Description . Semi-reversible gear with ball-nut driven by recirculating anti-friction bearings, energy absorbing steering column.
Linkage . Parallelogram, front of wheels - two tie rods
Steering Wheel . . . . . Elliptical, dia. 15.25 x 14.75

POWER STEERING – RPO N40

(Same as standard except as shown)
Type . . . . . Integral power piston and variable ratio steering gear, with vane type pump driven by crankshaft pulley.

STEERING GEAR RATIO	MANUAL	POWER
Except Z28	28:1	16/13.0:1
Z28	24:1	16/13.0:1
OVERALL STEERING RATIO		
L-6 & V-8 (exc. Z28)	32.99:1	15.5/11.8:1
Z28	22.5	15.5/11.8:1
TURNING DIA (FT.)		
Wall to Wall	41.06	41.06
Curb to Curb	38.86	38.86
MINIMUM TURN, Lock to Lock		
Except Z28	6.19	2.29
Z28	4.10	2.29

DRIVELINE

Prop shaft . . . . . Tubular
Number used . . . . . One
Diameter (OD) 2.75
Wall thickness 065
Length (C/L of U-joints)
All transmissions 49.20
Universal joints
Type . . . . . Cross
Number used . . . . . Two
Bearings . . . . . Prepacked, anti-friction

WHEELS

Type . . . . . Short spoke disc, steel
Attachment . . . . . 5 hex nuts, 7/16-20 UNF 2-B, on 4.75 diameter bolt circle
Rim, base
Size . . . . . 14 x 6.00
SS . . . . . 14 x 7.00
Z28 . . . . . 15 x 7.00
Offset
L6, V8 (except SS, Z28) 50
Z28 30
SS 34

TIRES

Construction . . . . . Fiberglass bias belted 2 ply
Rating . . . . . 4 ply
Load Rating . . . . . B
Size
Except SS and Z28 . . . . . E78 x 14B
SS . . . . . F70 x 14B
Z28 . . . . . F60 x 15B

TIRE SPECIFICATIONS

		E78 x 14	F60 x 15	F70 x 14
Static loaded radius		12.5	12.23	12.27
Loaded rev/mi @ 45 MPH		800	801	784
Capacity (lbs @ PSI)		1190 @ 24	1280 @ 24	1280 @ 24
Recommended pressure (cold)	Front	24	24	24
	Rear	24	24	24

REAR AXLE

Description . . . . . Three piece housing includes integral cast iron differential carrier and housing with two pressed-in and welded steel tubes. Semi-floating axle shafts. Differential carrier contains hypoid overhung pinion and ring gear. Drive pinion supported by two taper roller bearings.

Drive pinion vertical offset 1.75

Drive pinion bearing adjustment . . . . . Shim

Lubricant

Type . . . . . Military Spec. MIL-L-2105-B

Viscosity . . . . . SAE 80

Filler plug . . . . . 5/8 sq. hd., 3/4-14 PTF SAE short

Capacity (pts) 3.5

Ratios (standard)

L6

3-Speed 3.08

Powerglide 3.08

307 - V-8

3-Speed 3.08

Powerglide 3.08

Turbo Hydra-Matic 2.73

L65 - V-8

4-Speed 3.08

Turbo Hydra-Matic 2.73

L48 - V-8

4-Speed 3.42

Turbo Hydra-Matic 3.08

LS3

4-Speed & Turbo Hydra-Matic 3.42

Z28

4-Speed & Turbo Hydra-Matic 3.73

(Opt.) 4.10

AXLE SHAFT

Description . . . . . Forged and hardened steel with integral drive flange

Wheel bearings . . . . . Single row cylindrical roller

Oil seal . . . . . Steel encased, spring loaded synthetic rubber

RING AND PINION GEARS

Axle Ratio	Ring Gear Diameter	Tooth Combination
2.73:1	8.50 In.	41,15
● 3.08:1	8.50 In.	40,13
3.73:1	8.50 In.	41,11
4.10:1	8.50 In.	41,10
3.42:1	8.50 In.	41,12

POSITRACTION DIFFERENTIAL

(See POWER TRAINS)

Type . . . . . 2 pinion with single disc clutch

REAR SUSPENSION

Description . . . . . Salisbury rear axle with multiple leaf springs.

Wheel travel (design)

Total 7.51

Jounce 2.75

Rebound 4.76

Wheel to spring, travel ratio 1:1

SHOCK ABSORBERS

Type . . . . . Direct, double acting, hydraulic

Piston diameter 1.00

Mounting . . . . . Staggered fore and aft of rear axle.

REAR SPRINGS

Selected (from a family of springs) by Electronic Data Processing which identifies the correct spring for the weight of the vehicle including optional equipment ordered by the customer.

Type . . . . . 5 left
Material . . . . . Spring steel
Length (Developed) between eye centers 56.0
Width 2.5
Design load @ camber . . . . . 580, .71+
Deflection rate, lb per inch, @ design load
@ Spring 89
@ Wheel (wheel rate) 100
Spring liners 4

REAR SPRING SPECIFICATIONS

MODEL	ENGINE	SUSPENSION TYPE	PART NO.	CODE	DEFLECTION RATE LBS/IN	CURB SPRUNG WHEEL LOAD PER WHEEL (LBS)	LOAD @ .71 SPRING CAMBER (LBS)
12387, 12487	L6, V8, L65. L48, L34, LS6	ALL	480878	PA	89	0 – 580	580
			480879	PB	90	OVER 580	635
12487	Z28	ALL	*481992	PK	96	ALL	735

SERVICE BRAKES (STANDARD)

Type . . . . . Front disc brakes (rear-standard service drum brakes). Dual-circuit brake system, pressure differential and parking brake warning light, self adjusting brake shoes.

Line Pressure, PSI @ 100 Lb. Pedal Load 700

Type . . . . . Hub mounted front disc, with self adjusting single caliper units mounted on steering knuckle. Metering valve in front line, proportion valve in rear line for braking balance.

Braking Ratios

- Pedal 5.83
- Hydraulic 18.8
- Overall 111.0

Front Disc Brake

- Construction . . . . . Double faced disc spaced by integrally cast radial cooling passages.
- Material . . . . . Cast iron
- Diameter . . . . . 11 inches

Brake Lining

- Material . . . . . Molded asbestos
- Size, Disc Segment . . . . . 5.4 x 1.93 x .46
- Method of Attachment . . . . . Riveted
- Total Effective Area (Sq. In.) 38.8

Wheel Cylinders (Front)

- Numper Per Wheel 1
- Piston Diameter 2.9375

Rear Drum Brake

- Diameter . . . . . 9.5 inches
- Construction . . . . . Composite, web casting rim
- Material
  - Web . . . . . H.R. steel
  - Rim . . . . . Cast iron alloy

Brake Lining

- Material . . . . . Full molded asbestos composition
- Size (Length x width x thickness)
  - Primary Shoe . . . . . 9.00 x .17 x 2.00
  - Secondary Shoe . . . . . 10.3 x .20 x 2.00
- Method of Attachment . . . . . Bonded
- Total Effective Area (Sq. In.) 75.7

Wheel Cylinders

- Rear 875

Master Cylinder

- Piston Diameter 1.125
- Piston Travel 1.41
- Foot Pedal Travel . . . . . 7.5 inches

POWER BRAKES (RPO J50)

(Same as standard service brakes except as follows)

Type . . . . . Vacuum power unit added to assist standard master cylinder.

Braking ratios

- Pedal 3.76
- Hydraulic 14.85
- Overall 55.8

Master Cylinder

- Piston Diameter 1.125
- Piston Travel 1.41
- Foot Pedal Travel 5.26

PARKING BRAKE

Type . . . . . Mechanical; pull rods and cables operate two rear service brakes.

Total Effective Area (Sq. In.) 75.0

Control . . . . . Pendulum foot pedal; release by T handle located below instrument panel to left of steering column.

Ratio, Overall 29.5:1

BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Back-up	2-1156	32
Brake warning	1-1194	2
Courtesy		
Instrument panel	2-631	6
Rear seat separator	1-212	6
Direction signal indicators	2-194	2
Dome - Center	1-211	12
Generator indicator	1-194	2
Glove compartment	1-1895	2
Headlamp	2-6014	High beam 60W Low beam 50W
Headlamp hi-beam indicator	1-194	2
Heater or air conditioning control	1-1445	1.5
Instrument cluster		
Dash panel	6-194	2
License plate	2-67	4
Luggage compartment	1-1003	15
Oil pressure indicator	1-194	2
Parking		
Park	2-1157	3
Turn		32
Radio	1-1816	3
Side Marker - Front	2-194	2
Side Marker - Rear	2-194	2
Spot lamp - Portable	1-4416	30W
Tail		
Tail	2-1157	3
Stop and turn		32
Temperature indicator	1-194	2
Underhood lamp	1-93	15
Washer fluid level indicator	1-168	3

CIRCUIT	TYPE OF PROTECTION	LOCATION AND CIRCUIT*
Air conditioning	SAE 30 fuse	In line
	SAE 25 fuse	Fuse panel (f)
Ash tray lamp	AGC 4 fuse	Fuse panel (c)
Auto. trans. position pattern lamp	AGC 4 fuse	Fuse panel (c)
Back-up lamps	AGC 20 fuse	Fuse panel (d)
Cigarette lighter	AGC 25 fuse	Fuse panel (b)
Clock	AGC 25 fuse	Fuse panel (b)
Clock lamp	AGC 4 fuse	Fuse panel (c)
Courtesy lamps	AGC 25 fuse	Fuse panel (b)
Defogging unit	AGC 10 fuse	Fuse panel (d)
Direction signal indicator lamps	AGC 20 fuse	Fuse panel (c)
Dome lamp	AGC 25 fuse	Fuse panel (b)
Fuel gage	AGC 10 fuse	Fuse panel (d)
Generator indicator lamp	AGC 10 fuse	Fuse panel (d)
Glove compartment lamp	AGC 25 fuse	Fuse panel (b)
Headlamps	CB	Light switch
Headlamp hi-beam indicator lamp	CB	Light switch
Heater	AGC 25 fuse	Fuse panel (f)
Heater control lamp	AGC 4 fuse	Fuse panel (c)
Instrument cluster lamps	AGC 4 fuse	Fuse panel (c)
License lamp	AGC 20 fuse	Fuse panel (a)
Luggage compartment lamp	AGC 20 fuse	Fuse panel (a)
Oil pressure indicator lamp	AGC 10 fuse	Fuse panel (d)
Parking lamps	20 amp fuse	Fuse panel (a)
Brake warning lamp	AGC 10 fuse	Fuse panel (d)
Radio and radio lamp	AGC 10 fuse	Fuse panel (e)
Seat separator compartment lamp	AGC 25 fuse	Fuse panel (b)
Side Marker lamp - Front	AGC 20 fuse	Fuse panel (a)
Side Marker lamp - Rear	AGC 20 fuse	Fuse panel (a)
Spot lamp – Portable	AGC 15 fuse	In line
Tachometer	AGC 10 fuse	Fuse panel (d)
Tail, stop and turn lamps	AGC 20 fuse	Fuse panel (a)
Traffic hazard indicator	AGC 20 fuse	Fuse panel (b)
Underhood lamp	SAE 15 fuse	In line
Windshield wiper, two-speed	SAE 25 fuse	Fuse panel (g)

*–Letter suffix indicates same circuit

DIMENSIONS AND WEIGHTS

INTERIOR DIMENSIONS

FRONT COMPARTMENT

CODE	DESCRIPTION	2-DOOR SPORT COUPE
H3	Seat cushion height	8.8
H11	Entrance height	29.6
H13	Steering wheel thigh clearance	4.6
H30	H point to heel point	6.7
H32	Seat cushion deflection	3.2
H50	Upper body opening to ground	44.9
H58	H point rise	0.7
H61	Effective headroom	37.4
H70	H point to body O line	10.9
H75	Effective 'T' point headroom	37.6
W3	Shoulder room	57.4
W5	Hip room	53.3
L7	Steering wheel torso clearance	14.9
L17	H point travel	5.0
L34	Effective leg room	43.8

REAR COMPARTMENT

H8	Seat cushion height	10.1
H31	H point to heel point	8.4
H33	Seat cushion deflection	2.6
H63	Effective headroom	36.1
H71	H point to body O line	9.9
H76	Effective 'T' point headroom	36.0
W4	Shoulder room	54.4
W6	Hip room	47.2
L3	Rear compartment room	22.4
L50	H point couple distance	27.4
L51	Effective leg room	30.7

LUGGAGE COMPARTMENT

–	Opening width	40.5
–	Interior height	17.7
–	Interior width	65.8
–	Interior length	42.6
H195	Liftover height	27.8
V1	Usable luggage capacity (cu.ft.)	6.4

LENGTHS

CODE	DESCRIPTION	2-DOOR SPORT COUPE
L101	Wheelbase	108.0
L102	Tire size (standard)	E78-14
L103	Overall length	188.0
L104	Overhang - front	38.1
L105	Overhang - rear	41.9
L127	Body O line to C/L of rear wheels	86.7
L128	Hood length at centerline	57.5

WIDTHS

W101	Tread - front	61.3
W102	Tread - rear	60.0
W103	Maximum overall width of car	74.4
W106	Front fender overall width	73.4
W107	Rear fender overall width	74.4
W120	Overall car width, front doors open	140.5

HEIGHTS

H101	Overall height (design)	49.1
H102	Front bumper to ground	19.2
H104	Rear bumper to ground	14.4
H111	Rocker panel to ground - rear	5.6
H112	Rocker panel to ground - front	6.7
H114	Hood at rear to ground	35.4
H115	Step height - front (design)	11.5
H125	Headlamp to ground	26.3
H126	Tail lamp to ground	22.1
H136	Body O line to ground - front	5.0
H137	Body O line to ground - rear	3.5

CLEARANCES

H106	Angle of approach (degrees)	22.3
H107	Angle of departure (degrees)	12.3
H147	Ramp breakover angle (degrees)	10.0
H148	Front suspension to ground	4.9
H149	Oil pan to ground	5.2
H150	Flywheel housing to ground	5.3
H151	Frame to ground	4.9
H152	Exhaust system to ground	4.7
H154	Fuel tank to ground	7.4
H156	Minimum ground clearance	4.2

VEHICLE WEIGHTS

CAMARO

MODEL SYMBOL		VEHICLE TYPE	SHIPPING WEIGHT			CURB WEIGHT		
6 CyL	V8		Front	Rear	Total	Front	Rear	Total
12387	--	2-Door Sport Coupe	1778	1316	3094	1760	1426	3186
--	12487		1882	1336	3218	1864	1446	3310

SHIPPING WEIGHT: Weight of basic vehicle with regular equipment, including grease, oil and (3) gallons of gasoline, and engine coolant to capacity.

CURB WEIGHT: Shipping weight plus gasoline to capacity.

For total shipping, and curb, weights of vehicles equipped with the following options, add to, or deduct from, the base vehicle weight (lbs).

RPO	OPTION		WEIGHT
C60	Air Conditioning		+112
D55	Floor Console	With 3-Speed Transmission	+ 12
		With 4-Speed Transmission	+ 12
		With Automatic Transmission	+ 18
C08	Exterior Vinyl Roof		+ 6
J50	Power Brakes		+ 10
–	250 cu.in. 6 Cyl. Engine (145 HP)	With Powerglide Transmission	- 14
–	307 cu.in. V8 Engine (200 HP)	With Powerglide Transmission	- 10
		With Turbo Hydra-Matic Transmission	+ 28
L65	350 cu.in. V8 Engine (245 HP)	With 4-Speed Transmission	+ 21
		With Turbo Hydra-Matic Transmission	+ 43
L48	350 cu.in. V8 Engine (270 HP)**	With 4-Speed Transmission	+ 59
		With Turbo Hydra-Matic Transmission	+ 80
Z28	350 cu.in. V8 Engine (330 HP)*	With 4-Speed Transmission	+184
		With Turbo Hydra-Matic Transmission	+232
LS3	402 Cu.in. V8 Engine (300 HP)**	With 4-Speed Transmission	+246
		With Turbo Hydra-Matic Transmission	+294
N40	Power Steering		+ 29
U63	AM Radio		+ 7
U69	AM/FM Radio		+ 8
Z87	Deluxe Interior		+ 28
Z22	Rally Sport Package		+ 27

(*) Available as "Z-28" equipment only-includes additional body and chassis equipment.
(**) Available as "SS" equipment only-includes additional body and chassis equipment.

POWER TRAINS

POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS * STD.	A/C	ZQ9 (a)	YD1 (b)
Turbo Thrift 250 250 Cubic Inch L-6 145 HP Standard	3-Speed (2.85:1 low) Powerglide	All Models	3.08:1	NA	NA	NA
Turbo Fire 307 307 Cubic Inch V-8 200 HP Standard	3-Speed (2.85:1 low) Powerglide Turbo Hydra-Matic	All Models	308:1 2.73:1	3.08:1 2.73:1	NA	NA 3.42:1
Turbo Fire 350 350 Cubic Inch V-8 245 HP RPO L65	4-Speed (2.54:1 low) Turbo Hydra-Matic	All Models	3.08:1 2.73:1	3.08:1 2.73:1	NA	NA 3.42:1
Turbo Fire 350 350 Cubic Inch V-8 270 HP RPO L48	4-Speed (2.52:1 low) Turbo Hydra-Matic	All Models	3.42:1 3.08:1	3.42:1 3.08:1	NA	NA
Turbo-Fire 350 350 Cubic Inch V-8 330 HP RPO Z28	4-Speed (2.52:1 low) 4-Speed (2.20:1 low) H.D. 4-Spd. (2.20:1 low) Turbo Hydra-Matic	All Models	3.73:1	NA	4.10:1	NA
Turbo Jet 396 402 Cubic Inch V-8 300 HP RPO LS3	4-Speed (2.52:1 low) 4-Speed (2.20:1 low) Turbo Hydra-Matic	All Models	3.42:1	3.42:1	NA	NA

*Positraction required for 3.73 and 4.10 ratios, optional for all others.
(a) ZQ9 – Performance option
(b) YD1 – Trailer option

MULTIPLICATION FACTORS

WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO
			1st	2nd	3rd	4th	Rev	
250 Cu.In. L-6 145 HP Standard	Single Barrel	3-Speed	8.78	5.17	3.08		9.09	3.08
307 Cu.In. V-8 200 HP Standard	2-Barrel	3-Speed	8.78	5.17	3.08		9.09	3.08
350 Cu.In. V-8 245 HP RPO L65	2-Barrel	4-Speed	7.82	5.54	4.43	3.08	7.82	3.08
350 Cu.In. V-8 270 HP RPO L48	4-Barrel	4-Speed	8.62	6.43	4.99	3.42	8.86	3.42
350 Cu.In. V-8 330 HP RPO Z28	4-Barrel	4-Speed	9.40	7.01	5.45	3.73	9.66	3.73
			8.21	6.12	4.74	3.73	8.42	3.73
402 Cu.In. V-8 300 HP RPO LS3	4-Barrel	4-Speed	8.62	6.43	4.99	3.42	8.86	3.42
			7.52	5.61	4.34	3.42	7.73	3.42

WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
250 Cu.In. L-6 145 HP Standard	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 3.08:1	
307 Cu.In. V-8 200 HP Standard	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 3.08:1	
	Turbo Hydra-Matic	Drive	14.44:1 - 2.73:1	2.73:1
		Low	14.44:1 - 6.88:1	
		Second	14.44:1 - 4.15:1	
		Reverse	11.06:1 - 5.27:1	
350 Cu.In. V-8 245 HP RPO L65	Turbo Hydra-Matic	Drive	14.44:1 - 2.73:1	2.73:1
		Low	14.44:1 - 6.88:1	
		Second	14.44:1 - 4.15:1	
		Reverse	11.06:1 - 5.27:1	
350 Cu.In. V-8 270 HP RPO L48	Turbo Hydra-Matic	Drive	16.29:1 - 3.08:1	3.08:1
		Low	16.29:1 - 7.76:1	
		Second	16.29:1 - 4.68:1	
		Reverse	12.47:1 - 5.94:1	
350 Cu.In. V-8 330 HP RPO Z28	Turbo Hydra-Matic	Drive	19.43:1 - 3.73:1	3.73:1
		Low	19.43:1 - 9.25:1	
		Second	19.43:1 - 5.52:1	
		Reverse	16.30:1 - 7.76:1	
402 Cu.In. V-8 300 HP RPO LS3	Turbo Hydra-Matic	Drive	17.82:1 - 3.47:1	3.42:1
		Low	17.82:1 - 8.48:1	
		Second	17.82:1 - 5.06:1	
		Reverse	14.94:1 - 7.11:1	

* Axle ratio x transmission ratio

GENERAL DATA

Engine		L-6 OHV	V-8 OHV				
Piston Displacement (Cu.In.)		250	307	350			402
Availability		Standard		L65	L48	Z28	LS3
Number of Cylinders		Six	Eight				
Bore (nominal)		3.875	3.875	4.00			4.126
Stroke (nominal)		3.53	3.25	3.48			3.76
Compression Ratio		8.5:1				9.00:1	8.5:1
Taxable (SAE Horsepower		36.0	48.0	51.2			54.5
Firing Order		1-5-3-6-2-4	1-8-4-3-6-5-7-2				
Idling Speed	Manual transmission (in neutral)	550		600		700	600
	Powerglide (in drive)	500					
	Turbo Hydra-Matic (in drive)		550			700	600
Comp. Press. (PSI) @ Cranking Speed, Engine Hot		140	150				160
Power Plant Mountings	Front	Two; combination compression and shear type					
	Rear	One; full shear type					
Measurements	Fan to rear of engine block	34.49	31.13	30.69	30.16		33.97
	Top of a/clnr to bottom of oil pan	27.05	29.49	29.29	26.79		27.62
	Width - including air cleaner	29.84	27.34	27.34	27.97		30.00

ADVERTISED ENGINE RATING

Engine Designation	Turbo-Thrift 250 L-6 145 HP	Turbo-Fire 307 V-8 200 HP	Turbo-Fire 350 V-8 245 HP	Turbo-Fire 350 V-8 270 HP	Turbo-Fire 350 V-8 330 HP	Turbo-Jet 396 V-8 300 HP
Availability	Standard	Standard	RPO L65	RPO L48	RPO Z28	RPO LS3
Carburetor	Single Bbl.	Two Bbl.	Two Bbl.	Four Bbl.	Four Bbl.	Four Bbl.
Gross Brake HP @ RPM	145 @ 4200	200 @ 4600	245 @ 4800	270 @ 4800	330 @ 5600	300 @ 4800
Gross Torque @ RPM (lb-ft)	230 @ 1600	300 @ 2400	350 @ 2800	360 @ 3200	360 @ 4000	400 @ 3200
Net Brake HP @ RPM ●	110 @ 3800	140 @ 4400	165 @ 4000	210 @ 4400	275 @ 5600	260 @ 4400
Net Torque @ RPM (lb-ft) ●	185 @ 1600	235 @ 2400	280 @ 2400	300 @ 2800	300 @ 4000	345 @ 3200

TURBO-THRIFT 250 L-6 ENGINE

Transmission		3-Speed	Powerglide
Rear Axle Ratio		3.08:1	
Tire Size		E78 X 14B	
Crankshaft Revolutions per Mile		2461.0	
Crankshaft RPM @ 1 MPH	Low	116.9	74.6
	Second	68.9	
	Third	41.0	41.0 (direct)
	Reverse	121.0	74.6
Piston Travel (ft/mile)		1447.9	

TURBO-FIRE 307 V-8 ENGINE

Transmission		3-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio		3.08:1		2.73:1
Tire Size		E78 X 14B		
Crankshaft Revolutions per Mile		2461.0		2181.0
Crankshaft RPM @ 1 MPH	Low	116.9	74.6	91.6
	Second	68.9		55.3
	Third	41.0	41.0 (direct)	36.4 (direct)
	Reverse	121.0	74.6	70.2
Piston Travel (ft/mile)		1333.0		1417.6

TURBO-FIRE 350 V-8 ENGINE (RPO L65 & L48)

Transmission		RPO L65		RPO L48	
		4-Speed	Trb/Hyd	4-Speed	Trb/Hyd
Rear Axle Ratio		3.08:1	2.73:1	3.42:1	3.08:1
Tire Size		E78 X 14B			
Crankshaft Revolutions per Mile		2461.0	2181.0	2733.0	2461.0
Crankshaft RPM @ 1 MPH	Low	104.2	91.6	114.8	103.4
	Second	73.8	55.3	85.6	62.3
	Third	59.1	36.4 (direct)	66.5	41.0 (direct)
	Fourth	41.0		45.6	
	Reverse	104.2	70.2	117.9	79.2
Piston Travel (ft/mile)		1427.4	1264.9	1427.4	1585.1

TURBO-FIRE 350 V-8 ENGINE (RPO Z28)

Transmission		4-Speed		Turbo Hydra-Matic
Rear Axle Ratio		3.73:1		
Tire Size		F60 X 15B		
Crankshaft Revolutions per Mile		2987.7		
Crankshaft RPM @ 1 MPH	Low	125.5	109.6	123.5
	Second	93.6	81.7	73.7
	Third	72.7	63.3	49.8 (direct)
	Fourth	49.8	49.8	
	Reverse	128.9	112.6	103.6
Piston Travel (ft/mile)		1733.0		

TURBO-JET 396 V-8 ENGINE (402 CU.IN.)

Transmission		4-Speed		Turbo-Hydra-Matic
Rear Axle Ratio		3.42:1		
Tire Size		F70 X 14B		
Crankshaft Revolutions per Mile		2677.9		
Crankshaft RPM @ 1 MPH	Low	112.5	98.2	110.7
	Second	83.9	73.2	66.1
	Third	65.2	56.7	44.6 (direct)
	Fourth	44.6	44.6	
	Reverse	115.6	100.9	92.8
Piston Travel (ft/mile)		1678.2		

VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 250 CU.IN. 145 HP	BASE 307 CU.IN. 200 HP	RPO L65 350 CU.IN. 245 HP	PRO L48 350 CU.IN. 270 HP	RPO Z28 350 CU.IN. 330 HP	RPO L53 402 CU.IN. 350 HP
MODEL	12387	12487	12487	12487	12487	
3-SPEED TRANSMISSION						
Performance Weight (pounds)	3786	3910				
Pounds per Gross Horsepower	26.11	19.55				
Pounds per Cu.In. Displacement	15.14	12.74				
Gross HP per Cu.In. Displacement	.580	.651				
Power Displacement (cu.ft./mile)	178.02	218.61				
Displacement Factor (cu.ft./ton mile)	94.19	111.54				
4-SPEED TRANSMISSION						
Performance Weight (pounds)			3931	3969	4094	4156
Pounds per Gross Horsepower			16.04	14.70	12.41	13.85
Pounds per Cu.In. Displacement			11.23	11.34	11.70	10.34
Gross HP per Cu.In. Displacement			.700	.771	.943	.746
Power Displacement (cu.ft./mile)			249.23	276.77	302.60	311.50
Displacement Factor (cu.ft./ton mile)			127.16	125.24	147.61	148.33
POWERGLIDE						
Performance Weight (pounds)	3772	3900				
Pounds per Gross Horsepower	26.01	19.50				
Pounds per Cu.In. Displacement	15.09	12.70				
Gross HP per Cu.In. Displacement	.580	.651				
Power Displacement (cu.ft./mile)	178.02	218.61				
Displacement Factor (cu.ft./ton mile)	94.19	112.11				
TURBO HYDRA-MATIC						
Performance Weight (pounds)		3938	3953	3990	4142	4204
Pounds per Gross Horsepower		19.69	16.13	14.78	12.55	14.01
Pounds per Cu.In. Displacement		12.83	11.28	11.40	11.83	10.46
Gross HP per Cu.In. Displacement		.651	.700	.771	.943	.746
Power Displacement (cu.ft./mile)		193.74	220.88	249.23	302.60	311.50
Displacement Factor (cu.ft./ton mile)		98.34	111.56	139.78	146.18	149.76

GLOSSARY

Performance Weight — Curb Weight plus 600 lb. (weight of four 150 lb passengers)

Power Displacement — $\frac{\text{Crankshaft Revs/Mi} \times \text{Piston Displacement}}{2 \times 1728}$

Displacement Factor — $\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$

CYLINDER BLOCK
- Material . . . . . Cast alloy iron
- Bore Diameter
  - L6-250 Cu.In. 3.8745-3.8775
  - V8-307 Cu.In. 3.8745-3.8775
  - V8-350 Cu.In. 3.9995-4.0025
  - V8-402 Cu.In. 4.1246-4.1274
- Bearing Caps (Number, material & attachment)
  - L6-250 . . . . . 7, cast iron, 2-bolt
  - V8-307 & 350 (L65 & L48) . . . 5, cast iron; 2-bolt
  - V8-350 (Z28) . . . . . No 1 & 5, cast iron 2-bolt
    No. 2, 3 & 4, nodular iron 4-bolt
  - V8-402 . . . . . 5, cast iron, 2-bolt
- Water Jacket . . . . . Full length around each cylinder
- Bore Spacing (Centerline to Centerline)
  - L6-250 Cu.In. 4.4
  - V8-307 & 350 Cu.In. 4.4
  - V8-402 Cu.In. 4.84

CYLINDER HEAD
- Material . . . . . High chrome cast alloy iron
- Bolt No. & Size
  - L6-250 Cu.In. . . . . 10; .500 dia. 13 threads/in.
  - V8-307 Cu.In. . . . . 34; .4375 dia. 14 threads/in.
  - V8-350 Cu.In. . . . . 34; .4375 dia. 14 threads/in.
  - V8-402 Cu.In. . . . . 32; .4375 dia. 14 threads/in.

COMBUSTION CHAMBER VOLUME
(Total chamber volume of assembled engine with piston at top center)
- L6-250 Cu.In. . . . . 5.73 Cu.In.
- V8-307 Cu.In. . . . . 5.32 Cu.In.
- V8-350 Cu.In. (RPO L65) . . . . . 6.08 Cu.In.
- V8-350 Cu.In. (RPO L48) . . . . . 6.08 Cu.In.
- V8-350 Cu.In. (Z28) . . . . . 5.54 Cu.In.
- V8-402 Cu.In. . . . . 6.91 Cu.In.

INLET MANIFOLD
- Material . . . . . Cast alloy iron
  Cast aluminum with Z28
- Type
  - L6-250 Cu.In. . . . . 3 port, rectangular section
  - V8-307, 350 & 402 Cu.In. . . . 8 port, double deck

EXHAUST MANIFOLD
- Material . . . . . Cast alloy iron
- Type
  - L6-250 Cu.In. . . . . 4 port, center downtake
  - V8-307 & 350 Cu.In. . . Dual, 4 port, rear downtake
  - V8-402 Cu.In. . . . . Dual, 4 port, rear downtake
- Outlet Diameter (Nominal)
  - L6-250 Cu.In. 2.0
  - V8-307 & 350 Cu.In. 2.0
  - V8-402 Cu.In. 2.5

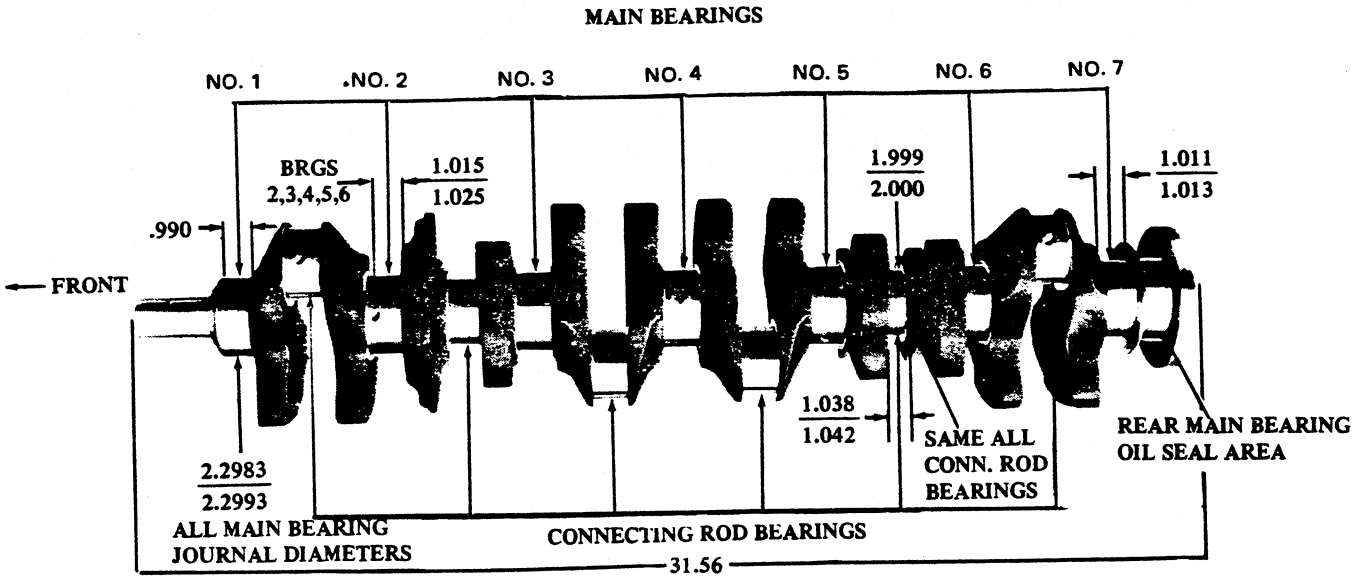
CRANKSHAFT
- Material
  - L6-250 & V8-307 Cu.In. . . . . Cast nodular iron
  - V8-350 (L65 & L48) Cu.In. . . . Cast nodular iron
  - V8-350 (Z28) Cu.In. . . . . Forged steel
  - V8-402 Cu.In. . . . . Cast nodular iron
- End Play
  - L6-250 Cu.In. 002-.006
  - V8-307 & 350 Cu.In. 002-.006
  - V8-402 Cu.In. 006-.010
- Counter Weights
  - L6 12
  - V8 6
- Crank Arm Length
  - L6-250 Cu.In. 1.765
  - V8-307 Cu.In. 1.625
  - V8-350 Cu.In. 1.74
  - V8-402 Cu.In. 1.88
- Torsional Damper . . . . . Rubber mounted inertia
- Timing Gear
  - L6 . . . . . Steel; helical cut
  - V8 . . . . . Steel; sprocket & chain
- Pulley Pitch Diameter 6.64

MAIN BEARINGS
- Material . . . . . Steel; backed insert; (copper lead alloy or premium aluminum lining selected for specific engine application)
- Type . . . . . Precision removable
- Thrust Against Bearing No. . . . L6 - No. 7; V8 - No. 5
- Clearance
  - L6-230 & 250 Cu.In. 0003-.0029
  - V8-307 & 350 Cu.In. . . . . (No. 1) .0008-.0020; (No. 2-3-4) .0011-.0023; (No. 5) .0017-.0033
  - V8-402 Cu.In. . . . . (No. 1) .0007-.0019 (No. 2-3-4) .0013-.0025; (No. 5) .0019-.0035

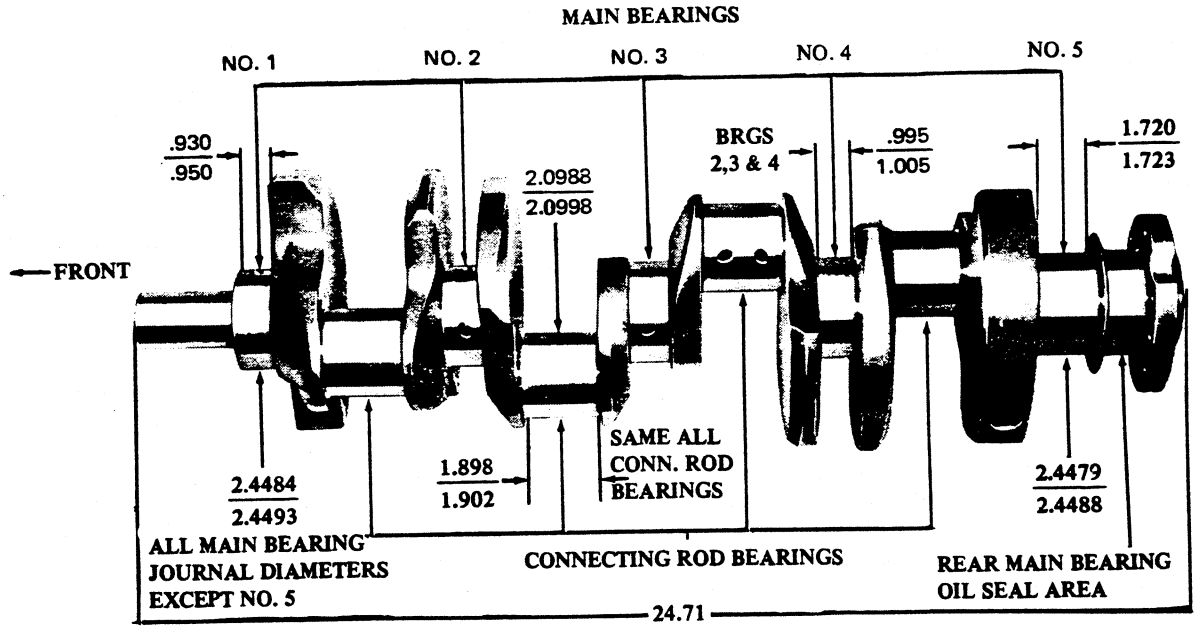
Dimensions	Theoretical Inner Dia.	Effective Length	Projected Area
L6-250 Cu.In.			
Bearing No. 1-6	2.3004	.752	1.7299
Bearing No. 7	2.3004	.760	1.7483
V8-307 & 350 (L65 & L48) Cu.In.			
Bearing No. 1	2.4502	.752	1.8425
Bearing No. 2-4	2.4502	.752	1.8425
Bearing No. 5	2.4508	1.177	2.8846
V8-350 Cu.In. (Z28)			
Bearing No. 1-4	2.4503	.752	1.8426
Bearing No. 5	2.4508	1.177	2.8846
V8-402 Cu.In.			
Bearing No. 1	2.7509	.992	2.7289
Bearing No. 2	2.7505	.992	2.7285
Bearing No. 3-4	2.7505	.992	2.7285
Bearing No. 5	2.7505	1.252	3.4450

CRANKSHAFTS AND BEARINGS

250 CUBIC INCH SIX CYLINDER ENGINE



307 and 350 CUBIC INCH V-8 ENGINES



CAMSHAFT

Material	Cast alloy iron
Drive	
L6	Gear; bakelite and fabric composition
V8	Sprocket & chain; steel
Lobe Lift	
L6-250 Cu.In.	.2217 Inlet & Exhaust
V8-307 Cu.In.	.2600 Inlet; .2733 Exhaust
V8-350 Cu.In. (L65 & L48)	.2600 Inlet; .2733 Exhaust
V8-350 Cu.In. (Z28)	.3057 Inlet; .3234 Exhaust
V8-402 Cu.In.	.2343 Inlet; .2529 Exhaust
Camshaft Bearings	Steel backed babbitt

VALVE TRAIN

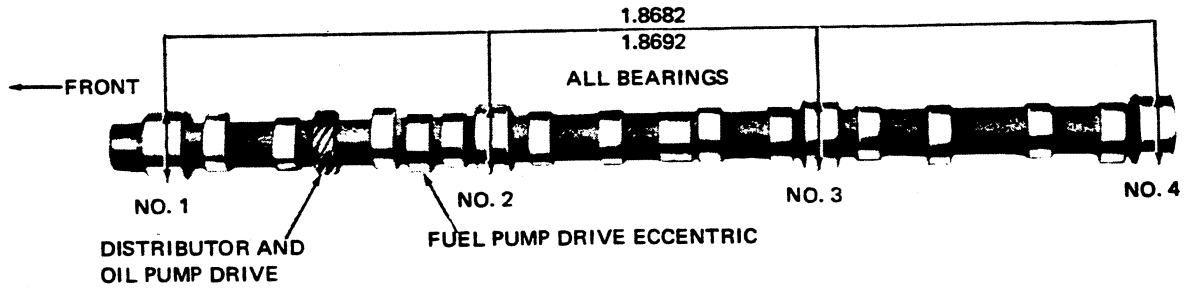
Type	Individually mounted, overhead valves and rocker arms, push rod actuated
Lifters	Hydraulic
Rocker Arms	Stamped steel
Ratio	
L6-250 Cu.In.	1.75:1
V8-307 Cu.In.	1.50:1
V8-350 Cu.In.	1.50:1
V8-402 Cu.In.	1.70:1
Push Rods	Hollow steel with hardened ends steel insert with V8-402 and upper end with V8-350 (Z28)

VALVE SPRINGS

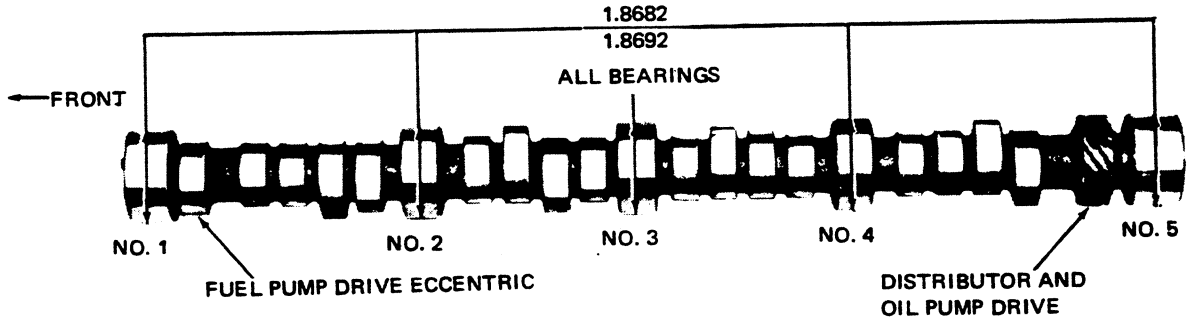
Diameter	
L6-250 Cu.In.	.872–.888
V8-307 & 350 Cu.In.	.868–.884
V8-402 Cu.In.	1.080–1.094
Installed Length (lb. @ in.)	
Valves closed	
L6-250 Cu.In.	56-64 @ 1.66
V8-307 & 350 Cu.In.	76-84 @ 1.70
V8-402 Cu.In. – Outer spring	69-81 @ 1.88
– Inner spring	26-34 @ 1.78
Valves opened	
L6-250 Cu.In.	180-192 @ 1.27
V8-307 & 350 Cu.In.	194-206 @ 1.25
V8-402 Cu.In. – Outer spring	228-252 @ 1.38
– Inner spring	81-99 @ 1.28
Free Length	
L6-250 Cu.In.	1.90
V8-307 & 350 Cu.In.	2.03
V8-402 Cu.In. – Outer spring	2.12
– Inner spring	2.06
Valve Spring Damper	
L6-250 Cu.In.	None
V8-307 & 350 Cu.In.	Flat steel, 4 coils
Oil Shield	Steel cup

CAMSHAFT AND BEARINGS

250 CUBIC INCH L-6 ENGINE



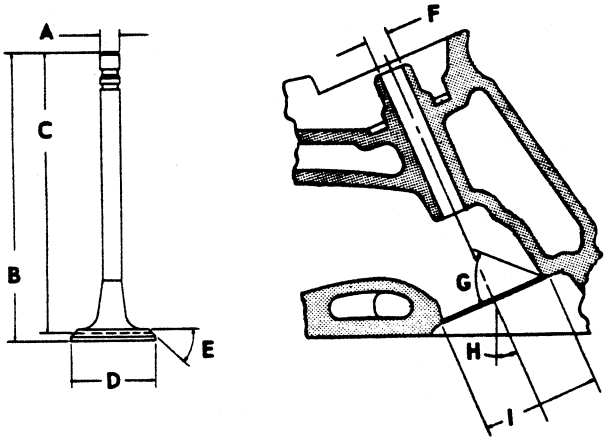
350 CUBIC INCH V-8 ENGINE



PRINCIPAL COMPONENTS

INLET VALVES

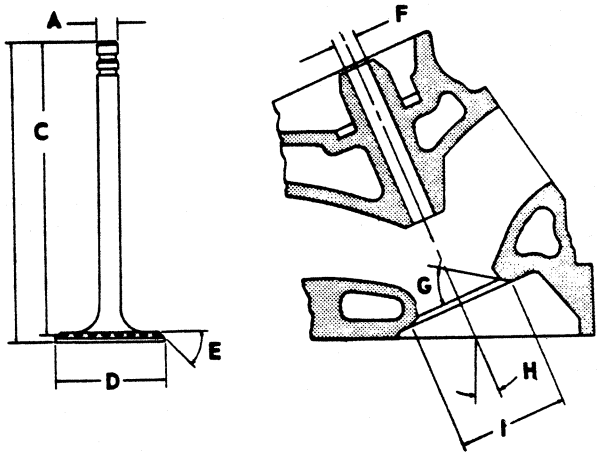
Material	Alloy steel
Coating	
L6-250 Cu.In.	Aluminized face
V8-307 & 350 Cu.In.	None
V8-402 Cu.In.	Face and head aluminized
Valve Guide Inserts (V8-402)	Cast alloy iron



A – Stem Diameter	
L6-250 Cu.In.	.3410-.3417
V8-307 & 350 Cu.In.	.3410-.3417
V8-402 Cu.In.	.3715-.3722
B – Overall Length	
L6-250 & V8-307 Cu.In.	4.902-4.922
V8-350 Cu.In.	4.870-4.889
V8-402 Cu.In.	5.215-5.235
C – Gage Length	
L6-250 Cu.In.	4.785-4.795
V8-307 & 350 Cu.In.	4.785-4.795
V8-402 Cu.In.	5.115-5.125
D – Overall Head Diameter	
L6-250 & V8-307 Cu.In.	1.715-1.725
V8-350 Cu.In. (L65 & L48)	1.935-1.945
V8-350 Cu.In. (Z28)	2.017-2.023
V8-402 Cu.In.	2.060-2.070
E – Angle of Face	45°
F – Guide Diameter	
L6-250 Cu.In.	.3427-.3437
V8-307 & 350 Cu.In.	.3427-.3437
V8-402 Cu.In.	.3732-.3742
G – Angle of Seat	46°
H – Valve Angle	
L6-250 Cu.In.	9°
V8-307 & 350 Cu.In.	23°
V8-402 Cu.In.	4°
I – Valve Seat (Cutter) Diameter	
L6-250 & V8-307 Cu.In.	1.770-1.790
V8-350 Cu.In. (L65 & L48)	1.990-2.010
V8-350 Cu.In. (Z28)	2.080
V8-402 Cu.In.	2.150

EXHAUST VALVES

Material	High alloy steel
Coating	
L6-250 & V8-307 Cu.In.	Aluminized face
V8-350 Cu.In. (L65 & L48)	Aluminized face
V8-350 (Z28) & 402 Cu.In.	Face and head aluminized
Valve Guide Inserts (V8-402)	Cast alloy iron



A – Stem Diameter	
L6-250 Cu.In.	.3410-.3417
V8-307 & 350 Cu.In.	.3410-.3417
V8-402 Cu.In.	.3713-.3720
B – Overall Length	
L6-250 Cu.In.	4.913-4.933
V8-307 & 350 Cu.In. (L65 & L48)	4.913-4.933
V8-350 Cu.In. (Z28)	4.891-4.910
V8-402 Cu.In.	5.345-5.365
C – Gage Length	
L6-250 Cu.In.	4.781-4.791
V8-307 & 350 Cu.In.	4.781-4.791
V8-402 Cu.In.	5-235-5.245
D – Overall Head Diameter	
L6-250 & V8-307 Cu.In.	1.495-1.505
V8-350 Cu.In. (L65 & L48)	1.495-1.505
V8-350 Cu.In. (Z28)	1.595-1.605
V8-402 Cu.In.	1.715-1.725
E – Angle of Face	45°
F – Guide Diameter	
L6-250 Cu.In.; V8-307 & 350 Cu.In.	.3427-.3437
V8-402 Cu.In.	.3732-.3742
G – Angle of Seat	46°
H – Valve Angle	
L6-250 Cu.In.	9°
V8-307 & 350 Cu.In.	23°
V8-402 Cu.In.	4°
I – Valve Seat (Cutter) Diameter	
L6-250 & V8-307 Cu.In.	1.550-1.570
V8-350 Cu.In. (L65 & L48)	1.550-1.570
V8-350 Cu.In. (Z28)	1.600
V8-402 Cu.In.	1.625

VALVE LIFT

L6-250 Cu.In.	.3880 Inlet & Exhaust
V8-307 Cu.In.	.3900 Inlet; .4100 Exhaust
V8-350 Cu.In. (L65 & L48)	.3900 Inlet; .4100 Exhaust
V8-350 Cu.In. (Z28)	.4586 Inlet; .4850 Exhaust
V8-402 Cu.In.	.3983 Inlet; .4300 Exhaust

VALVE TIMING (Crankshaft degrees)

L6-250 Cu.In.	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	16°	62°
Closes - ABC	48°	94°
Duration	244°	336°
Exhaust Valve (Zero lash)		
Opens - BBC	46°30'	92°30'
Closes - ATC	17°30'	63°30'
Duration	244°	336°

V8-307 & 350 (L65 & L48)	Excluding Ramps	Including Ramps
Inlet Valve (Zero lash)		
Opens - BTC	28°	38°
Closes - ABC	72°	92°
Duration	280°	310°
Exhaust Valve (Zero lash)		
Opens - BBC	78°	88°
Closes - ATC	30°	52°
Duration	288°	320°

V8-350 Cu.In. (Z28)	Excluding Ramps
Inlet Valve (.020 lash)	
Opens - BTC	42°40'
Closes - ABC	94°20'
Duration	317°
Exhaust Valve (.025 lash)	
Opens - BBC	112°50'
Closes - ATC	53°23'
Duration	346°13'

V8-402 Cu.In.	Excluding Ramps
Inlet Valve (Zero lash)	
Opens - BTC	28°
Closes - ABC	78°
Duration	286°
Exhaust Valve (Zero lash)	
Opens - BBC	75°
Closes - ATC	31°
Duration	286°

PISTONS

Material	
All engine except V8-350 (Z28)	Cast alum. alloy
V8-350 Cu.In. (Z28)	Alum. impact extruded
Head Type	
L6-250 & V8-307 Cu.In.	Flat, notched
V8-350 Cu.In. (L65 & L48)	Sump
V8-350 Cu.In. (Z28)	Flat, notched
V8-402 Cu.In.	Domed head, valve cutout
Skirt Type	Slipper
Top Land Clearance	
L6-250 Cu.In.	.0245-.0335
V8-307 & 350 (L65 & L48)	.0235-.0325
V8-350 Cu.In. (Z28)	.0305-.0395
V8-402 Cu.In.	.0310-.0370
Skirt Clearance	
L6-250 Cu.In.	.0005-.0015
V8-307 Cu.In.	.0005-.0015
V8-350 Cu.In. (L65)	.0007-.0017
V8-350 Cu.In. (L48)	.0007-.0017
V8-350 Cu.In. (Z28)	.0036-.0046
V8-402 Cu.In.	.0018-.0028
Compression Ring Groove Depth	
L6-250 Cu.In.	.2153-.2218
V8-307 Cu.In.	.2113-.2178
V8-350 Cu.In.	.2218-.2284
V8-402 Cu.In.	.2328-.2392
Oil Ring Groove Depth	
L6-250 Cu.In.	.2093-.2158
V8-307 Cu.In.	.2053-.2118
V8-350 Cu.In.	.2038-.2103
V8-402 Cu.In.	.2183-.2247
Pin Bore Offset	.055-.065
Compression Height	
L6-250 Cu.In.	1.658-1.662
V8-307 Cu.In.	1.673-1.677
V8-350 Cu.In. (L65 & L48)	1.563-1.567
V8-350 Cu.In. (Z28)	1.658-1.662
V8-402 Cu.In.	1.953-1.957

PISTON PINS

Material	Chromium steel
Length	
L6-250; V8-307 & 350 Cu.In.	2.990-3.010
V8-402 Cu.In.	2.930-2.950
Diameter	
L6-250; V8-307 & 350 Cu.In.	.9270-.9273
V8-402 Cu.In.	.9895-.9898
Clearance in Piston	
L6-250 & V8-307 Cu.In.	.00015-.00025
V8-350 Cu.In. (L65 & L48)	.00015-.00025
V8-350 Cu.In. (Z28)	.00045-.00055
V8-402 Cu.In.	.00025-.00035
Pin Mounting	Locked in rod by shrink fit

PRINCIPAL COMPONENTS

COMPRESSION RINGS – UPPER

Material	Cast alloy iron
Type	Straight edge inside of ring
Face	Barrel
Coating	
L6-250 & V8-307 Cu.In.	Chrome plate face
V8-350 Cu.In. (L65 & L48)	Chrome plate face
V8-350 (Z28) & 402 Cu.In.	Molybdenum inlay
Width	
L6-250 Cu.In.	.0775-.0780
V8-307 & 350 (L65 & L48)	.0775–.0780
V8-350 (Z28) & 402 Cu.In.	.0770–.0780
Wall Thickness	
L6-250 Cu.In.	.184–.194
V8-307 Cu.In.	.184–.194
V8-350 Cu.In.	.190–.200
V8-402 Cu.In.	.196–.206
Gap	.010–.020

COMPRESSION RINGS – LOWER

Material	Cast alloy iron
Type	Inside bevel (top of ring 30 degrees to piston vertical axis for L6-250 and V8-307 & 350; 28-50 degrees for V8-402
Face	Tapered
Coating	Wear resistant
V8-350 (Z28) & 402 Cu.In.	Chrome plated
Width	
L6-250 Cu.In.	.0770-.0780
V8-307 Cu.In.	.0770–.0780
V8-350 (L65 & L48) Cu.In.	.0770–.0775
V8-350 Cu.In. (Z28)	.0775–.0780
V8-402 Cu.In.	.0770–.0780
Wall Thickness	
L6-250 Cu.In.	.184–.194
V8-307 Cu.In.	.184–.194
V8-350 Cu.In.	.190–.200
V8-402 Cu.In.	.194–.204
Gap	
L6-250 Cu.In.	.010–.020
V8-307 Cu.In.	.010–.020
V8-350 Cu.In.	.013–.025
V8-402 Cu.In.	.010–.020

OIL CONTROL RINGS

Type	Multi-piece (two rails and one spacer)
Material	
Rails	Steel
Spacer	Alloy steel
Width (assembled)	.1870–.1890
Wall Thickness	
L6-250 Cu.In.	.152–.158
V8-307 & 350 Cu.In.	.150–.156
V8-402 Cu.In.	.137–.143
Gap	
L6-250 Cu.In.	.015–.055
V8-307 & 350 Cu.In.	.015–.055
V8-402 Cu.In.	.010–.030
Rail Coatings	Chrome plated

CONNECTING RODS

Material	Drop forged steel
Length (center to center)	
L6-250 Cu.In.	5.695–5.705
V8-307 & 350 Cu.In.	5.695–5.705
V8-402 Cu.In.	6.130–6.140

CONNECTING ROD BEARINGS

Material	
L6-250 & V8-307 Cu.In.	Copper lead alloy or sintered copper nickel backed babbitt on steel
V8-350 & 402 Cu.In.	Premium aluminum
Type	Precision removable
Clearance	
L6-250 Cu.In.	.0007–.0027
V8-307 & 350 Cu.In.	.0013–.0035
V8-402 Cu.In.	.0009–.0025
Theoretical I.D.	
L6-250 Cu.In.	2.0017
V8-307 & 350 Cu.In.	2.1019
V8-402 Cu.In.	2.2012
Effective Length	
L6-250 Cu.In.	.807
V8-307 & 350 Cu.In.	.797
V8-402 Cu.In.	.847
End Play	
L6-250 Cu.In.	.009–.014
V8-307 & 350 Cu.In.	.008–.014
V8-402 Cu.In.	.015–.023

FUEL TANK
- Capacity . . . . . 17 (approximately)
- Fuel Tank Location . . . . . Behind rear axle
- Filler Location . . . . . Behind hinged rear license plate

FUEL FILTERS, DUAL
- In Fuel Tank . . . . . Mesh strainer
- In Carburetor Inlet . . . . . Paper (sintered bronze V8-307)

FUEL PUMP ASSEMBLY
- Type
  - All engines except V8-350 (L48) . . . . Diaphragm
  - V8-350 (L48) . . . . . Deep cover with vapor return line
  - V8-402 (additional) . . . . . Large in-line paper filter with vapor return line
- Drive . . . . . Camshaft, eccentric
- Location . . . . . Right side front of engine
- Pressure Range (shut off pressure at 1800 RPM)
  - L6-250 Cu.In. . . . . 4.00-5.00 PSI at pump outlet
  - V8-307 Cu.In. . . . . 5.50-7.00 PSI at pump outlet
  - V8-350 Cu.In. . . . . 7.50-9.00 PSI at pump outlet
  - V8-402 Cu.In. . . . . 7.50-9.00 PSI at pump outlet

AIR CLEANER
- L6-250 Cu.In. . . . . Cylindrical, single air horn
- V8-307 Cu.In. . . . . Cylindrical, single air horn
- V8-350 Cu.In. (L65) . . . . Cylindrical, single air horn
- V8-350 Cu.In. (L48) . . . . . Cylindrical, single air horn, chrome plated cover
- V8-350 (Z28) . . . . . Cylindrical, dual air horn, chrome plated cover
- V8-402 Cu.In. . . . . Cylindrical, dual airhorn, chrome plated cover
- Diameter
  - L6-250 Cu.In. 12.62
  - V8-307 Cu.In. 12.62
  - V8-350 Cu.In. (L48 & L65) 15.48
  - V8-350 (Z28) 16.78
  - V8-402 Cu.In. 14.16
- Filter Element . . . . . Oil-wetted paper

CARBURETORS
- Make & Type
  - L6-250 Cu.In. . . . . Rochester, 1-barrel, Monojet
  - V8-307 & 350 Cu.In. (L65) . . . . . Rochester 2-barrel, downdraft
  - V8-350 Cu.In. (L48) . . . . . Rochester 4-barrel, Quadrajet
  - V8-350 Cu.In. (Z28) . . . . . 4-barrel, Holley
  - V8-402 Cu.In. . . . . Rochester, 4-barrel, Quadrajet
- SAE Flange Type
  - L6-250 Cu.In. 1.50
  - V8-307 Cu.In. 1.25
  - V8-350 Cu.In. 1.50
  - V8-402 Cu.In. 1.50
- Throttle Bore
  - L6-250 Cu.In. 1.69
  - V8-307 Cu.In. 1.44
  - V8-350 Cu.In. (L65) 1.69
  - V8-350 (L48) & 402 Cu.In.
    - Primary 1.38
    - Secondary 2.25
  - V8-350 (Z28) Cu.In.
    - Primary 1.69
    - Secondary 1.69
- Secondary Throttle Actuation . . . . . By linkage approximately when primary valves are opened halfway between closed and open
- Venturi Diameter
  - L6-250 Cu.In. 1.31
  - V8-307 Cu.In. 1.09
  - V8-350 (L65) Cu.In. 1.25
  - V8-350 (L48) & 402 Cu.In.
    - Primary 1.04
    - Secondary 625
  - V8-350 (Z28) Cu.In.
    - Primary 1.38
    - Secondary 1.44

CHOKE
- Type . . . . . Automatic

EXHAUST AND VENTILATION SYSTEM

TYPE
- L6-230 & 250 Cu.In. . . . . Single
- V8-307 Cu.In. . . . . Single with crossover pipes
- V8-350 (L48 & Z28) Cu.In. . . . . Dual exhaust; single muffler
- V8-350 Cu.In. (L65) . . . . Single with crossover pipes
- V8-402 Cu.In. . . . . Dual exhaust; single muffler

MUFFLERS
- Type . . . . . Oval, reverse flow
- Construction . . . . . Heads and body joined by rolled lock seam construction
- Head
  - L6-250 Cu.In. . . . . .048 sheet steel, aluminized
  - V8-307 Cu.In. . . . . .048 sheet steel, aluminized
  - V8-350 Cu.In. (L65) . . .048 sheet steel, aluminized
  - V8-350 (L48 & Z28) Cu.In. . . . .060 sheet steel; aluminized
  - V8-402 Cu.In. . . . . .060 sheet steel, aluminized
- Shell . . . . . .036 sheet steel, aluminized
- Wrap . . . . . .030 indented asbestos sheet
- Cover . . . . . .018 sheet steel, aluminized
- Baffles . . . . . 4; .036 sheet steel, aluminized
- Length, Body
  - L6-250 Cu.In. 24.00
  - V8-307 & 350 Cu.In. (L65) 24.00
  - V8-350 (L48 & Z28) Cu.In. 26.00
  - V8-402 Cu.In. 26.00
- Width (I.D.) 4.00
- Height (I.D.)
  - L6-250, V8-307 & 350 (L65) Cu.In. 9.75
  - V8-350 (L48 & Z28) & 402 Cu.In. 10.44

EXHAUST CROSSOVER PIPE (V8-307 & 350 (L65) Cu.In.
- Dimension (O.D.) 2.00
- Wall Thickness . . . . . .072–.092 laminated

EXHAUST PIPE
- Dimensions (O.D.)
  - L6-250 Cu.In. 2.00
  - V8-307 Cu.In. 2.00
  - V8-350 Cu.In. (L65) 2.00
  - V8-350 (L48 & Z28) Cu.In. 2.25
  - V8-402 Cu.In. 2.25
- Wall Thickness
  - L6-250 Cu.In. 057–.071
  - V8-307 & 350 (L65) Cu.In. . .072–.092 laminated
  - V8-350 (L48 & Z28) Cu.In. . .073–.091 laminated
  - V8-402 Cu.In. . . . . .073–.091 laminated

TAIL PIPES
- Dimensions (O.D.)
  - L6-250 Cu.In. 2.00
  - V8-307 & 350 (L65) Cu.In. 2.00
  - V8-350 (L4 & Z28) Cu.In. 2.00
  - V8-402 Cu.In. 2.00
- Wall Thickness 062–.076

ENGINE VENTILATION
- Type . . . . . Closed-positive

EXHAUST EMISSION CONTROL
- Positive Crankcase Ventilation . . . . . Utilizes manifold vacuum to draw off engine crankcase vapors through a metered PCV valve and ultimately to the intake system for engine reburn
- Controlled Combustion System . . . . . Increases combustion efficiency through leaner carburetor adjustments and revises distributor calibration
- Combination Emission Control Valve . . . . . Controls vacuum supply to the distributor vacuum spark advance and positions the carburetor throttle blade during vehicle deceleration.
- Air Injection Reactor . . . . . (350 Cu.In. Z28 only) Air pump injects air into exhaust manifold which burns unburned portion of exhaust fumes

GENERAL

Type	Controlled full pressure
Main Bearings	Pressure
Connecting Rods	Pressure
Piston Pins	Splash
Cylinder Walls	
L6	Main and connecting rod bearing throw off
V8	Pressure, jet cross sprayed
Camshaft Bearings	Pressure
Valve Lifters	Pressure
Rocker Arms	Pressure
Timing Gears	
L6	Nozzle sprayed
V8	Centrifugally oiled from camshaft bearing
Oil Pressure Sending Unit	
Type	Electric
Actuation	Opens or closes circuit @ 2 to 6 PSI
Oil Filler	
Cap	Positive seal
Location	
L6	Forward end of rocker cover
V8-307 & 350 Cu.In.	Rearward of left rocker cover
V8-402 Cu.In.	Top center of right rocker cover

OIL PAN CAPACITIES (Quarts)

Refill	
L6-250 Cu.In.	4
V8-307 & 350 Cu.In.	4
V8-402 Cu.In.	4
Refill with Filter Change	
L6-250 Cu.In.	4.5
V8-307 & 350 Cu.In.	4.5
V8-402 Cu.In.	4.5

LUBRICANT GRADES AND TEMPERATURES

20°F and Above	20W,10W-30,10W-40,20W-40
0°F to 60°F	10W,5W-30,10W-30,10W-40
Below 20°F	5W,5W-20,5W-30

OIL PUMP

Type	Gear
Regulator Valve	Opens between 40-45 lbs.
L6-250 Cu.In.	40 PSI @ 2000 RPM
V8-307 & 350 Cu.In.	40 PSI @ 2000 RPM
V8-402 Cu.In.	40 PSI @ 2000 RPM
Intake Type	Fixed pickup with screen
Capacity (GPM @ Engine RPM)	
L6-250 Cu.In.	4.3 @ 2000
V8-307 & 350 Cu.In.	4.3 @ 2000
V8-402 Cu.In.	6.0 @ 2000

OIL FILTER

Type	Full flow, throw away canister
Location	
L6	Right side front of engine
V8	Left rear side of engine
Capacity	One pint
Bypass Valve	Opens between 9 to 11 PSI drop in pressure

OIL PAN DRAIN PLUG

Type	Hex head
Location	
L6	Front lower face of oil pan
V8	Left lower face of oil pan
Size of Hex Head	.860–.875
Thread	1/2-20 UNF 2A
Length	0.81
Diameter	.410–.430

OIL DIPSTICK – LOCATION

L6-250 Cu.In.	Right side rear of engine block
V8-307 & 350 Cu.In.	Left side, rear of engine block
V8-402 Cu.In.	Right side, center, direct to oil pan

GENERAL
- Type . . . . . Liquid, pressurized
- Capacity with Heater (Standard Equipment)
  - L6-250 Cu.In. . . . . 12 qts
  - V8-307 Cu.In. . . . . 15 qts
  - V8-350 Cu.In. . . . . 16 qts
  - V8-402 Cu.In. . . . . 24 qts

RADIATOR
- Make and Type . . . . . Harrison, tube and center
- Core Constant
  - Distance between Fins
    - L6-250 Cu.In. . . . . .28 Syn., .22 Auto.
    - V8-307 Cu.In. . . . . .25 Syn., .18 Auto.
    - V8-350 Cu.In. (L65) . . . . . .16 Syn., .16 Auto.
    - V8-350 Cu.In. (L48 & Z28) . . . .16 Syn. & Auto.
    - V8-402 Cu.In. . . . . .16 Syn. & Auto.
  - Distance between Tubes 55
- Thickness of Core
  - L6-250 Cu.In. 1.26
  - V8-307 & 350 Cu.In. 1.26
  - V8-402 Cu.In. 1.98
- Frontal Area (Sq.In.)
  - L6-250 Cu.In. 353
  - V8-307 & 350 Cu.In. (L65 & L48) 353
  - V8-350 (Z28) & 402 Cu.In. 446

RADIATOR HEAVY DUTY (RPO V01)
- Core Constant
  - Distance between Fins
    - L6-250 Cu.In. . . . . .25 Syn. & Auto.
    - V8-307 Cu.In. . . . . .16 Syn. & Auto.
    - V8-350 Cu.In. (L65 & L48) . . . .16 Syn. & Auto.
    - V8-402 Cu.In. . . . . .16 Syn. & Auto.
  - Distance between tubes 55
- Thickness of Core
  - L6-250 Cu.In. 1.26
  - V8-307 & 350 Cu.In. 1.26
  - V8-402 Cu.In. 2.70
- Frontal Area (Sq.In.) 446

THERMOSTAT
- Type . . . . . Pellet
- Begins to Open at
  - All engines but Z28 . . . . . 192°-198°
  - V8-350 Cu.In. (Z28) . . . . . 177°-183°
- Fully Opened at
  - All engines but Z28 . . . . . 227°
  - V8-350 Cu.In. (Z28) . . . . . 202°
- Thermostat by-pass hose (V8-402) . . . . . 745 ID

RADIATOR CAP RELIEF VALVE
- Opens at . . . . . Approximately 15 PSI

RADIATOR HOSE
- Outlet, Lower (Radiator to Water Pump)
  - L6-250 Cu.In. . . . . 1.75 ID
  - V8-307 & 350 Cu.In. . . . . 1.75 ID
  - V8-402 Cu.In. . . . . 1.88 ID
- Inlet, Upper (Thermostat Housing to Radiator)
  - L6-250 & V8-307 Cu.In. . . . . 1.50 ID
  - V8-350 & 402 Cu.In. . . . . 1.50 ID

FAN
- Number of Blades
  - All engines but Z28 4
  - V8-350 Cu.In. (Z28) 5
- ●Diameter
  - L6-250 Cu.In. 17.62
  - All V8 engines 18.00

BELTS, CRANKSHAFT, FAN AND GENERATOR
- Number Used . . . . . One
- Angle of "V" . . . . . 38°-42°
- Pitch Line
  - L6-250 Cu.In. 37.30
  - V8-307 Cu.In. 44.25
  - V8-350 Cu.In. (L65 & L48) 44.25
  - V8-350 (Z28) & 402 Cu.In. 45.75
- Width 380

WATER PUMP
- Type . . . . . Centrifugal
- Capacity
  - L6-250 Cu.In. . . . . 27 GPM @ 2000 Engine RPM
  - V8-307 Cu.In. . . . . 25 GPM @ 2000 Engine RPM
  - V8-350 Cu.In. . . . . 25 GPM @ 2000 Engine RPM
  - V8-402 Cu.In. . . . . 27 GPM @ 2000 Engine RPM
- Bearing . . . . . Permanently lubricated double row ball
- Drive . . . . . Fan belt
- Ratio (Pump to Engine RPM) 949:1
  RPO Z28 – 1.15:1

DRAIN LOCATIONS AND TYPE
- Radiator - Petcock . . . . . Bottom left side, rear of radiator tank
- Engine Block - Plug
  - L6-250 Cu.In. . . . . Left side rear
  - V8-307 & 350 Cu.In. . . . . Right and left center
  - V8-402 Cu.In. . . . . Left side: rear of block
    Right side: center of block

SUPPLY SYSTEM
BATTERY
Type . . . . . Sealed side terminal
Voltage Rating 12
Cranking Power @ 0°F
L6-250 Cu.In. . . . . 2300 watts
V8-307, 350 & 402 Cu.In. . . . . 2900 watts
Heavy Duty (RPO T60) . . . . . 3750 watts
Capacity (SAE) @ 20 hr. rate
L6-250 Cu.In. . . . . 45 amp. hr.
V8-307, 350 & 402 Cu.In. . . . . 61 amp. hr.
Heavy Duty (RPO T60) . . . . . 80 amp. hr.
Total Number of Plates
L6-250 Cu.In. 54
V8-307, 350 & 402 Cu.In. 66
Heavy Duty (RPO T60) 90
Number of Cells 6
Terminal Grounded . . . . . Negative
Location . . . . . Right front engine compartment

GENERATOR
Type . . . . . Diode rectified
Rating
Amps 37
Volts 12-15
Drive . . . . . By fan belt
Pulley Pitch Diameter . . . . . 2.62; RPO Z28 – 3.09
Ratio (Gen. to Engine Speed) . . . . . 2.53:1; RPO Z28 – 2.15:1

REGULATOR
Type . . . . . Two unit, vibrator
Voltage Regulator
Voltage . . . . . 13.8-14.8 @ 85° F
Field Relay (Combination Light and Field Relay)
Closing Voltage . . . . . 1-3 volts @ 80° F
Location . . . . . Left side front engine compartment

IGNITION SYSTEM
DISTRIBUTORS . . . . . Refer to chart below

CABLE . . . . . Linen core impregnated with electrical conducting material and insulation of rubber with neoprene jacket

COIL
Type 12-Volt
Amperes Drawn
Engine Stopped 4.0
Engine Idling 1.8

SPARK PLUGS
Type
L6-250 Cu.In. ACR46TS
V8-307 & 350 (L65) Cu.In. ACR45TS
V8-350 (L48) Cu.In. ACR44TS
V8-350 (Z28) Cu.In. ACR43TS
V8-402 Cu.In. ACR44TS
Thread Size (mm) 14
Gap 033-.038
Torque . . . . . 25 lb.ft.

STARTING SYSTEM
STARTING MOTOR
Rotation (Drive End View) . . . . . Clockwise
Test Conditions . . . . . Engine at operating temp.
No Load Test
Amps
L6-250 Cu.In. 49-87
V8-307 Cu.In. 49-87
V8-350 Cu.In. 65-100
V8-402 Cu.In. 70-99
Volts 10.6
RPM
L6-250 Cu.In. 6200-10700
V8-307 Cu.In. 6200-10700
V8-350 Cu.In. 3600-5100
V8-402 Cu.In. 7800-12000
Motor Drive
Engagement . . . . . Solenoid
Pinion Meshes at . . . . . Rear
Pinion Tooth No. 9
Flywheel Tooth No. 153; V8-402, 168
Mounting . . . . . Bolted to cylinder block flange

DISTRIBUTORS	Transmission	250 Cu.In. L6-145 HP	307 Cu.In. V8-200 HP	350 Cu.In. V8-245 HP	350 Cu.In. V8-270 HP	350 Cu.In. V8-330 HP	402 Cu.In. V8-300 HP
Model	Manual	1110489	1112005	1112042	1112044	1112049	1112057
	Automatic	1110489	1112039	1112005	1112045	1112074	1112057
Type		Single breaker					
Cam angle		31-34	29-31				28-30
Breaker gap		.019 (new)					
Breaker arm tension		19 - 23 oz.					28 - 32 oz.
Centrifugal advance begins @ RPM	Manual	1270	1000	1120	1160	1330	1260
	Automatic	1270	1320	1000	1335	1366	1260
Maximum Degrees @ RPM	Manual	24 @ 4100	24 @ 4300	28 @ 4300	22 @ 4200	24 @ 5000	30 @ 4400
	Automatic	24 @ 4100	20 @ 4200	24 @ 4300	18 @ 4200	20 @ 5000	30 @ 4400
Vacuum advance begins @ In. Hg.	Manual	8.00	8.00		8.00		8.00
	Automatic	8.00	8.00		8.00		8.00
Maximum degrees @ In. Hg.	Manual	22 @ 16	20 @ 17		15 @ 15.5		20 @ 17
	Automatic	22 @ 16	20 @ 17		15 @ 15.5		20 @ 17
Timing (initial design setting) Crankshaft degrees @ RPM with vacuum line disconnected	Manual ●	4° BTC @ 550	4° BTC @ 600	2° BTC @ 600	4° BTC @ 600	8° BTC @ 700	8° BTC @ 600
	Automatic	4° BTC @ 500	8° BTC @ 550	6° BTC @ 550	8° BTC @ 550	12° BTC @ 700	8° BTC @ 600
Timing mark location		Torsional damper					

CLUTCHES

Engine	Type - Cubic Inch	L6-250	V8-307	V8-350			V8-402
	Availability	Standard	Standard	RPO L65	RPO L48	RPO Z28	RPO LS3
Clutch for		3-Speed		4-Speed			
Type		Single dry disc		Single dry disc, centrifugal			
Clutch cover & pressure plate	Eff. plate load, lbs.	1650-1850	1900-2200	2100-2300	2450-2750		
	Press. plate matl.	Cast iron		Nodular iron			
	Clutch spring type	Diaphragm		Diaphragm, bent figer design			
	Clutch spring matl.	Heat treated spring steel					
Driven plate	Type	Single disc with two friction surfaces					
	Cushions	Flat spring steel between friction rings					
	Dampers	(a)	10 coil springs (5 sets of two)				
	Friction rings OD	9.12	10.34	11.00			
	Friction rings ID	6.12	6.50	6.50			
	Friction rings Total area sq. in.	71.82	101.54	123.70			
	Friction rings Material	Woven type asbestos					
Flywheel & Ring Gear	Flywheel ● Material	Nodular Iron					
	Ring gear ● Material	Heat treated HR steel					
	Ring gear ● No. of Teeth	153		168			
	Ring gear ● PD	12.75		14.00			
	Ring gear ● Attachment	Shrink Fit					
Bearings	Release Type	Single row ball					
	Release Lubrication	None, prepacked					
	Pilot Type	Bronze bushing					
	Pilot Lubrication	None, sintered and oil impregnated					
Controls	Clutch fork	Drop forged steel, pivot mounted on ball					
	Pedal mounting	Pendant from brace on dash					
	Lubrication	Crossover shaft					
Clutch housing material		Aluminum alloy					

(a) 6 outer coil springs and 3 inner coil springs equally spaced

3-SPEED AND 4-SPEED TRANSMISSIONS

Transmission	Type	3-Speed		4-Speed				
Engine Application	Type	L6-250	V8-307	V8-350	V8-350		V8-402	V8-350	V8-402
	Availability	Standard		L65	L48	Z28	LS3	Z28	LS3
Case material		Cast iron		Aluminum					
Gear Shift	Type	Remote							
	Control	Lever							
	Location	Floor							
Gears	Type	Helical							
	Material	Forged steel hardened							
	Synchronization	All forward gears							
	Constant mesh gear	All gears		All forward gears					
	Sliding gears	None		Reverse					
	Ratios First	2.85		2.54	2.52			2.20	
	Ratios Second	1.68		1.80	1.88			1.64	
	Ratios Third	1.00		1.44	1.46			1.27	
	Ratios Fourth			1.00	1.00			1.00	
	Ratios Reverse	2.95		2.54	2.59			2.26	
Lubricant	Type	Meeting Military Specification MIL-L-2105B							
	Capacity (pts)	3							
Extension	Material	Cast iron		Aluminum					
	Oil seal	Steel encased double seal of spring loaded rubber or felt							

POWERGLIDE TRANSMISSION

Engine	Displacement (Cu.In.)		L-6 250 Cu.In.	V8-307 Cu.In.
	Availability		Standard	
General data	Type		Automatic hydraulic torque converter with planetary gear system for low and reverse	
	Selector lever	Location	Steering column (a)	
		Operation	Actuates manual valve in hydraulic control system	
		Quadrant pattern	P-R-N-D-L	
	Parking lock	Type	Pawl and gear (on planetary)	
		Operation	Applied by selector lever thru spring loaded linkage	
	Method of cooling		Water	
	Flywheel assembly		Steel stamping with welded on ring gear	
Hydraulic controls	Manual valve type		Spool	
	Pressure regulator valve type		Spool	
	Pressure @ Idle (b)	Drive	51	51
		Low	112	111
		Reverse	90	92
Converter assembly	Type		Three element	
	Pump		Inner and outer sheet steel shells separated by sheet steel vanes. Outer shell is pump housing which is welded to converter housing.	
	Turbine		Inner and outer shells separated by sheet steel vanes. Assembly supported in converter cover.	
	Stator		Operation independent of cover and pump housing. Aluminum air foil supported on a stationary sleeve by an over-running clutch of cam and roller design.	
	Stall torque ratio		2.10	
	Stall speed (RPM)		1620	1530
	Diameter (nominal)		11.0	
Planetary gear set	Type		Compound planetary	
	Range	Drive	1.82:1	
		Low	1.82	
		Reverse	1.82	
	Low band		Three linked circular segments	
	Low band servo		Piston with release spring and inner cushion spring	
Case	Material		Aluminum (one piece)	
High clutch	Type		Multi-disk	
	Drive plates	Description	Waved steel with bonded organic facings	
		Number	3	4
	Driven plates	Description	Flat steel	
		Number	4	5
Reverse clutch	Type		Multi-disk	
	Drive plates	Description	Flat steel with bonded organic facings	
		Number	4	5
	Reaction plates	Description	Flat steel	
		Number	4	5
Torque Multi-plication	Maximum overall ratio		3.82	
	Low and reverse		3.82 to 1.82	
Lubricant	Type		A suffix A	
	Capacity (pts)	Dry	17	
		Refill	6	
Governor	Type		Centrifugal	
	Operation		Regulates pump oil pressure to automatic shift control valve body	
	Drive		Mounted on output shaft	
	Location		In extension	
Oil pump	Type		Internal-external gear	
	Number		One; front	
	Function		To supply pressure	
	Drive		Converter pump	

(a) Floor mount available with console - optional. (b) Conditions: 450 RPM input at 25 inches Hg vacuum

TURBO HYDRA-MATIC TRANSMISSION

Engine	Displacement (Cu.In.)		V8-307 & 350 (245 & 270 HP)	V8-350 (330 HP) & 402
General Data	Type		Automatic hydraulic torque converter with compound planetary gear system - three forward speeds and reverse.	
	Selector lever	Location	Steering column (a)	
		Operation	Actuates controls by a hydraulic system from pressurized gear type pump	
		Quadrant pattern	P-R-N-D-L2-L1	
	Parking Lock	Type	Locking pawl	
		Operation	Applied by selector lever through manual linkage	
	Method of cooling		Water	
	Flywheel assembly		Steel stamping with welded on ring gear	
Hydraulic System	Oil pressure pump		Supplies hydraulic pressure from an engine driven gear type pump	
	Type		Steel spool	
	Manual		Establishes range at transmission operation	
	Pressure regulator		Controls main line pressure	
	Shift (1-2)		Controls oil pressure for transmission shift from 1-2 or 2-1	
	Shift (2-3)		Controls oil pressure for transmission shift from 2-3 or 3-2	
	Modulator		Regulates line pressure with modulator oil pressure that varies with torque to transmission	
	Accumulator		To obtain greater flexibility in attaining desired shift curve for various engine requirements	
	Pressure @ Idle (b)	Drive	55	70
		L2	80	150
		L1	80	150
		Reverse	84	107.5
Converter Assembly	Pump (Drive member)		Multivane type, sheet metal blade spot welded to steel pump housing that is an integral part of the converter housing	
	Turbine (Driven member)		Steel axial flow blades assembled between inner & outer steel shells	
	Stator assembly		Aluminum multivane type blades mounted on a one way (overrunning) roller clutch	
	Stall ratio		2.10	
	Stall speed (RPM)		2110	
	Diameter (nominal)		11.75	12.20
Planetary Gear Set	Reaction carrier assembly		4 steel pinion gears	
	Output carrier assembly		4 steel pinion gears	
	Front band			Circular steel with organic lining
	Rear band			Double wrap circular steel
	Intermediate band		Circular steel with organic lining	
	Range	D (Drive)	2.52:1 - 1.52:1 - 1.00:1	2.48:1 - 1.48:1 - 1.00:1
		L2 (Low two)	2.52:1 - 1.52:1	2.48:1 - 1.48:1
		L1 (Low one)	2.52:1	2.48:1
		(R (Reverse)	1.93:1	2.08:1
	Servo Unit		Piston with release spring and inner cushion spring	
Case	Material		Aluminum	
Clutches	Type		Four, multiple disk	Three, multiple disk
	Material	Drive plates	Steel with bonded organic facings	
		Driven plates	Flat steel	
	Forward clutch		4 each drive & driven plates	5 each drive & driven plates
	Direct clutch		4 each drive & driven plates	5 each drive & driven plates
	Intermediate clutch		2 each drive & driven plates	3 each drive & driven plates
	Low & Reverse clutch		4 each drive & driven plates	
	Release spring		Radial row steel coil	
Torque Multiplication	Drive (maximum)		5.29:1 to 1.00	5.21:1 to 1.00
	Low 2		5.29:1 to 1.52	5.21:1 to 1.48
	Low 1		5.29:1 to 2.52	5.21:1 to 2.48
	Reverse		4.05:1 to 1.93	4.37:1 to 2.08
Governor	Type		Cross-axis centrifugal	
	Operation		Regulates a pressure proportional to car speed which acts upon the (1-2) (2-3) shift and modulator valves	
Lubricant	Type		A suffix A	
	Capacity (pints)	Dry	20	22
		Refill	5	8

(a) Floor mounted available as an option, quadrant changes to P-R-N-3-2-1.
(b) Conditions: 450 RPM input at 25 inches Hg. vacuum.

BODY

EXTERIOR PAINT PROCESS

1. RUSTPROOFING. Assembled car bodies are chemically sprayed to clean and etch the metal surfaces for corrosion resistance and paint adhesion. Unassembled sheet metal parts follow the same process.

2. BODY AND SHEET METAL PRIMERS. Four corrosion resistant primers, specially formulated, are hand sprayed on the body in areas where rust might develop. Lower areas considered especially vulnerable are coated with another rust inhubiting compound.

3. PRIMER COAT is applied to all outside and inside surfaces of front fenders and hoods. The parts are mechanically dipped or flow-coated to insure coating in all seams and secluded areas, and baked at 390 degrees F, for 30 minutes. A coat of sealer is then applied by hand spray to all surfaces requiring another coat of lacquer.

4. FLASH PRIMER AND PRIMER-SURFACER COATS. An air-dry flash primer coat is hand sprayed on surfaces below the body belt line. Then a gray primer-surfacer coat is hand sprayed on all outside surfaces of the body and oven baked for 45 minutes at 285 degrees F.

5. INITIAL SANDING. Power wet sanding, followed by hand sanding, is done on all body surfaces requiring lacquering. This insures a smooth surface for the lacquer finish. To remove the water, the body is wiped and run through an infra-red oven.

6. LACQUERING. Three coats of acrylic lacquer are spread on the exterior surfaces of the body and sheet metal parts to build up a finish of the required thickness for each color.

7. INITIAL BAKING. To harden the paint for final sanding, the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.

8. FINAL SANDING. To remove body surface defects, power and hand sanding is done with fine grit sandpaper and mineral spirits as a wetting agent. Sanded areas are wiped to insure a clean surface before final baking.

9. FINAL BAKING. To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 275 degrees F. Reheating the lacquer after final sanding permits paint film to soften, allowing surface blemishes and sanding scratches to disappear during the thermo-reflow process.

10. UNDERCOATING. To block out road noise, an asbestos fiber sound deadener with asphalt base is sprayed inside the wheel housings and on the bottom of the underbody at designated areas.

11. PAINT REPAIR AND PROTECTION. Mars, nicks, or scratches that occur during final assembly are corrected at the factory before shipment. When required, light "slush" polishing brings painted surfaces to a high luster finish. Wax is applied to all horizontal surfaces of each vehicle and polished out for protection during shipment. The wax contains no silicones, thus eliminating any paint contamination problem.

CAMARO

Series	Trim	INTERIOR COLORS AND RPO NUMBERS					
		Black	Dark Blue	Dark Jade	Dark Saddle	Sandal-Wood	White/ Black
Standard	Vinyl	775	776	778	779	777	–
Custom Z87	Cloth	785	786	787	792	–	789

VINYL ROOF COLOR					CODE NO.	EXTERIOR COLOR						
Black	White	Blue	Green	Brown								
X	X	X	X	X	11	Antique White	X	X	X	X	X	X
X	X	X			13	Nevada silver	X	X			X	X
X	X	X	X		19	Tuxedo Black	X	X	X	X	X	X
X	X	X			24	Ascot Blue	X	X			X	X
X	X	X			26	Mulsanne Blue	X	X			X	X
X	X		X		42	Cottonwood Green	X		X		X	X
X	X		X		43	Lime Green	X		X	X	X	X
X	X		X		49	Antique Green	X		X	X	X	X
X	X				52	Sunflower Yellow	X		X	X	X	X
X	X				53	Placer Gold	X			X	X	X
X	X			X	61	Sandalwood	X		X	X	X	X
X	X			X	62	Burnt Orange	X				X	X
X	X			X	67	Classic Copper	X				X	X
X	X				75	Cranberry Red	X				X	X
X	X			X	78	Rosewood Metallic	X				X	X

BODY CONSTRUCTION AND GLASS AREA

GENERAL

Type . . . . . Unitized body with bolt on partial front frame and bolt-on front end sheet metal, with protective inner fender skirts. Full roof inner panel with integral side rails and front and rear headers. Roof is of double-panel construction.

DOORS AND LOCKS

Door construction . . . . . Double panel, hinged at front

Door handles . . . . . Lift flap with fork type locks, and 2-position free-wheeling inside door handles. Inside door lock buttons. Flush type external and internal.

HOOD AND TRUNK LID

Type . . . . . Counterbalanced, with short goose neck type hinges actuating torsion rods on trunk lid and spring loaded toggle-type hinges on rear of hood. Front and rear lids are of double-panel construction.

Hood release . . . . . External

VENTILATION

High level air intake for passenger compartment . With double wall plenum chamber providing washing and air drying of rocker panels for corrosion resistance. Air and water travel through rocker panels and drain at ends of rocker inner panels. Astro ventilation with instrument panel outlets and full door side glass.

SEATS

Type . . . . . Bucket seats front, rear seats have bucket seat styling with individual seat cushions and one-piece backrest

Construction

Front seat cushion . . . . . Molded urethane pad on conventional seat frame; spring supported

Rear seat cushion . . . . . Molded urethane pad on conventional seat frame.

WINDSHIELD WIPERS

Type . . . . . Dual, 2-speed electric; non-depressed park with dull-chromed arms and blades; 15-inch blades.

Linkage . . . . . Parallel acting

Optional system . . . . . Same as above except concealed park position, black-chromed 18-inch blades, and articulated left blade.

HEADLIGHTS

Type . . . . . Single Powerbeam headlamps

SPARE TIRE AND TOOLS

Location . . . . . Right side of trunk on floor. Tools consist of bumper jack and socket end type "L" wrench stored beneath tire.

BODY GLASS VISIBILITY AREA

Windshield	1137.6
Door windows (LH and RH)	1089.4
Back window	1099.2
Total area (sq.in.)	3326.2

Windshield laminated safety plate glass; door and rear window solid safety plate glass.

1971
AMA SPECIFICATIONS FORM
. . . Passenger Car

ORIGINAL COPY

MANUFACTURER	CAR NAME	
Chevrolet Motor Division General Motors Corporation	CAMARO	
FILE COPY ONLY	MODEL YEAR 1971	ISSUED 9/70 REVISED (●) 12/70

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● Please replace corresponding pages with revised pages attached.

AMA Specifications Form—Passenger Car

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NOTES:

1. The General 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 MODEL	Body type, number of passengers, and style names; use manufacturer's code for series & body style.

CAMARO	L-6 Engine	V-8 Engine
2-Door Sport Coupe, 4-Passenger	12387	12487

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CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	2-Door Sport Coupe
WIDTH		
Track – Front	W101	61.3
Track – Rear	W102	60.0
Maximum overall car width	W103	74.4
Body width at No. 2 pillar	W117	— — —
LENGTH		
Body "O" to front of dash	L 30	-1.2
Wheelbase	L101	108.0
Overall car length	L103	188.0
Overhang – front	L104	38.1
Overhang – rear	L105	41.9
Body upper structure length	L123	94.1
Body "O" line to ℄ of rear wheel	L127	86.7
Body "O" line to w s cowl point	L130	8.4
HEIGHT		
Passenger Distribution (front & rear)		2-2
Trunk/Cargo load (lbs.)		200
Overall height	H101	49.1
Cowl height	H114	35.3
Deck height	H138	
Rocker panel – front: To ground	H112	6.7
Rocker panel – front: From front wheel ℄	H112	
Rocker panel – rear: To ground	H111	5.6
Rocker panel – rear: From rear wheel ℄	H111	
Windshield slope angle	H122	57.4
GROUND CLEARANCE		
Bumper to ground – front	H102	19.2
Bumper to ground – rear	H104	14.4
Angle of approach	H106	22.3
Angle of departure	H107	12.3
Ramp breakover angle	H147	10.0
Min. running clearance (Specify)	H156	4.2 (a)

(a) Exhaust system to ground

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CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	2-Door Sport Coupe
FRONT COMPARTMENT		
Effective head room	H61	37.4
Max. eff. leg room – accelerator	L34	43.8
H Point to Heel point	H30	6.7
H Point travel	L17	5.0
Shoulder room	W 3	57.4
Hip room	W 5	53.3
Upper body opening to ground	H50	44.9
REAR COMPARTMENT		
H Point couple distance	L50	27.4
Effective head room	H63	36.1
Min. effective leg room	L51	30.7
H Point to Heel point	H31	8.4
Min. knee room	L48	.44
Rear Compartment room	L 3	22.4
Shoulder room	W 4	54.4
Hip room	W 6	47.2
Upper body opening to ground	H51	- -
LUGGAGE COMPARTMENT		
Usable luggage capacity	V 1	6.4
Liftover height	H195	27.8
Position of spare tire storage		RH Corner - Flat
Method of holding lid open		Torsion Bars
STATION WAGON – THIRD SEAT		
Shoulder Room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Seat facing direction		
STATION WAGON – CARGO SPACE		
Cargo length at floor – front seat	L202	
Cargo length at belt – front seat	L204	
Cargo width – Wheelhouse	W201	
Opening width at belt	W204	
Maximum cargo height	H201	
Rear opening height	H202	
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	

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POWER TEAMS

(Indicate whether standard or optional)

(Gross bhp (brake horsepower) and gross torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.)

(Net bhp (brake horsepower) and net torque corrected to 85°F and 29.00 in. Hg atmospheric pressure.)

MODEL AILABILITY	ENGINE							TRANSMISSION	AXLE RATIO ** (Std. first) (Indicate A/C ratio)#		
	Displ. cu. in.	Carb	Compr. Ratio	BHP @ RPM Gross	BHP @ RPM Net	Torque @ RPM Gross	Torque @ RPM Net		"A"	"B"	"C"
2387	Turbo-Thrift 250 L6 (Base)	One; 1-bbl	8.5:1	145 @ 4200	110 @ 3800	230 @ 1600	185 @ 1600	3-Spd. Manual (2.85:1 low)	3.08	- -	- -
								2-Spd. automatic*			
	Turbo-Fire 307 V8 (Base)	One; 2-bbl	8.5:1	200 @ 4600	140 @ 4400	300 @ 2400	235 @ 2400	3-Spd. Manual (2.85:1 low)	3.08	- -	- -
								2-Spd. automatic*			
								3-Spd. automatic*	2.73	- -	- -
	Turbo-Fire 350 V8 (L65)*	One; 2-bbl	8.5:1	245 @ 4800	165 @ 4000	350 @ 2800	280 @ 4200	4-Spd. Manual (2.54:1 low)	3.08	- -	- -
								3-Spd. automatic*	2.73	- -	3.42
12487 ●	Turbo-Fire 350 V8 (L48)* (Z27)	One; 4-bbl	8.5:1	270 @ 4800	210 @ 4400	360 @ 3200	300 @ 2800	4-Spd. Manual (2.52:1 low)	3.42	- -	- -
								3-Spd. automatic*	3.08	- -	- -
	Turbo-Fire 350 V8 (Z28)	One; 4-bbl	9.00:1	330 @ 5600	275 @ 5600	360 @ 4000	300 @ 4000	4-Spd. Manual (2.52:1 low)	3.73	4.10	- -
								4-Spd. Manual * (2.20:1 low)			
								H.D. 4-Spd. mnl.* (2.20:1 low)			
								3-Spd. automatic*			
	Turbo-Jet V8 396 (402 c.i.) (LS3) (Z27)	One; 4-bbl	8.5:1	300 @ 4800	260 @ 4400	400 @ 3200	345 @ 3200	4-Spd. Manual (2.52:1 low)	3.42	- -	- -
								4-Spd. Manual * (2.20:1 low)			
								3-Spd. automatic*			

* - Optional

** - Positraction required for 3.73 & 4.10; Available optionally for all other ratios.

A-Standard
B-Performance Option
C-Trailer Option

\# - Same ratios available optionally for A/C except 250-L6 & 350-V8 (Z28).

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MAKE OF CAR CAMARO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (•)

MODEL	Turbo - Thrift 250 L6 - 145 HP	Turbo - Fire 307 V8 - 200 HP	Turbo - Fire 350 V8 - 245 HP

ENGINE – GENERAL

Type, no. cyls., valve arr.		In - line 6 OHV	90° V8 OHV	
Bore and stroke (nominal)		3.875 x 3.53	3.875 x 3.25	4.00 x 3.48
Piston displacement, cu. in.		250	307	350
Bore spacing (℄ to ℄)			4.40	
No. system (front to rear)	L. Bank	1-2-3-4-5-6	1-3-5-7	
	R. Bank	In - line	2-4-6-8	
Firing order		1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)			8.5:1	
Cylinder Head Combustion Chamber Volume (cc)		93.88	87.15	99.61
Cylinder Head Material			Cast alloy iron	
Cylinder Block Material			Cast alloy iron	
Cyl Sleeve-Wet,dry,none			None	
Number of mtg. points	Front		Two	
	Rear		One	
Engine installation angle			3° 16'	
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		36.0	48.0	51.2
Recommended fuel regular – premium			Regular	

ENGINE – PISTONS

Material			Cast aluminum alloy	
Description and finish			Flat head, notched; slipper skirt	Sump head; slipper skirt
Weight (piston only) oz.		20.24	22.00	21.50
Clearance (limits)	Top land	.0245 - .0335	.0235 - .0325	.0235 - .0325
	Skirt Top	.0005 - .0015 (a)	.0005 - .0015 (b)	.0007 - .0017 (c)
	Skirt Bottom			
Ring groove diameter	No. 1 ring	3.434 - 3.444	3.442 - 3.452	3.546 - 3.556
	No. 2 ring	3.434 - 3.444	3.442 - 3.452	3.546 - 3.556
	No. 3 ring	3.446 - 3.456	3.454 - 3.464	3.582 - 3.592
	No. 4 ring			

(a) Measured from top of piston
(b) Measured 1.675 from top of piston
(c) Measured 1.56 from top of piston

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MAKE OF CAR CAMARO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (e)

MODEL	Turbo - Fire 350 V8 - 270 HP	Turbo - Fire 350 V8 330 HP	Turbo - Jet 396 V8 402 300 HP

ENGINE – GENERAL

Type, no. cyls., valve arr.		90° V8 OHV		
Bore and stroke (nominal)		4.00 x 3.48		4.126 x 3.76
Piston displacement, cu. in.		350		402
Bore spacing (℄ to ℄)		4.40		4.84
No. system (front to rear)	L. Bank	1-3-5-7		
	R. Bank	2-4-6-8		
Firing order		1-8-4-3-6-5-7-2		
Compres. ratio (nominal)		8.5:1	9.0:1	8.5:1
Cylinder Head Combustion Chamber Volume (cc)		99.61	90.82	113.21
Cylinder Head Material		Cast alloy iron		
Cylinder Block Material		Cast alloy iron		
Cyl. Sleeve-Wet, dry, none		None		
Number of mtg. points	Front	Two		
	Rear	One		
Engine installation angle		3° 16'		
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		51.2		54.5
Recommended fuel regular – premium				

ENGINE – PISTONS

Material		Cast aluminum alloy	Alum. impact extruded	Cast aluminum alloy
Description and finish		Sump head; slipper skirt	Flat head, notched; slipper skirt	Domed head; valve cutout
Weight (piston only) oz.		21.50	25.68	24.16
Clearance (limits)	Top land	.0235 - .0325	.0305 - .0395	.0310 - .0370
	Skirt Top	.0007 - .0017 (a)	.0036 - .0046 (a)	.0018 - .0028 (b)
	Skirt Bottom			
Ring groove diameter	No. 1 ring	3.546 - 3.556		3.649 - 3.659
	No. 2 ring	3.546 - 3.556		3.649 - 3.659
	No. 3 ring	3.582 - 3.592		3.678 - 3.688
	No. 4 ring			

(a) Measured 1.56 from top of piston

(b) Measured 1.878 from top of piston

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MAKE OF CAR CAMARO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (•)

MODEL	L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 270 HP	V8 350 330 HP	V8 396 300 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.	None				
Compression	Description - material, coating, etc. Upper	Cast alloy iron; barrel face (a)				
	Description - material, coating, etc. Lower	Cast alloy iron; inside bevel; tapered face (b)				
	Width	(c)	(d)		(e)	(f)
	Gap	.010 - .020	(g)			.010 - .020
Oil	Description - material, coating, etc.	Multi - piece (2 rails and 1 spacer expander) Rails - steel, chrome plated OD; Expander - stainless steel				
	Width	.1870 - .1890 (assembled)				
	Gap	.015 - .055				
Expanders		In oil ring assembly				

ENGINE – PISTON PINS

Material		Chromium steel			
Length		2.990 - 3.010			2.930-2.950
Diameter		.9270 - .9273			.9895-.9898
Type	Locked in rod, in piston, floating, etc.	Locked in rod			
	Bushing: In rod or piston	None			
	Bushing: Material				
Clearance	In piston	.00015 - .00025		(h)	(i)
	In rod				
Direction & amount offset in piston		Major thrust side .060		None	.060

ENGINE – CONNECTING RODS

Material		Drop forged steel		
Weight (oz.)		12.50	20.80	27.84
Length (center to center)		5.695 - 5.705		6.130-6.140
Bearing	Material & Type	Copper lead alloy (sintered) steel backed	Premium aluminum	
	Overall length	.807	.797	.847
	Clearance (limits)	.0007-.0027	.0013 - .0035	.0009-.0025
	End play	.009-.014	.008 - .014	.015-.023

(a) Chrome plated on L6 250, V8 307 and 350 (245 and 270 HP); Molybdenum inlay V8 350 (330 HP) and 396

(b) Wear resistant coating on L6 250, V8 307 and 350 (245 and 270 HP); Chrome plating on V8 350 (330 HP) and 396

(c) Upper .0775 - .0780; lower .0770 - .0780

(d) Upper .0775 - .0780; lower .0770 - .0775

(e) Upper .0770 - .0780; lower .0775 - .0780

(f) Upper and lower .0770 - .0780

(g) Upper .010 - .020; lower .013 - .025

(h) .00045 - .00055

(i) .00025 - .00035

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MODEL	L6 250 145 HP	V8 307 200 HP	V8 350 245 & 270 HP	V8 350 330 HP	V8 396 300 HP

ENGINE – CRANKSHAFT

Material			Cast nodular iron		Forged steel	Cast nod iron
Vibration damper type			Rubber mounted inertia			
End thrust taken by bearing (No.)			7	5		
Crankshaft end play			.002 - .006			.006 - .010
Main bearing	Material & type		Steel backed insert; copper lead alloy or premium aluminum lining selected for specific application			
	Clearance		.0003-.0029	(a)		(b)
	Journal dia. and bearing overall length	No. 1	2.3004x.752	2.4502 x.752	2.4503x.752	2.7509x.992
		No. 2	2.3004x.752	2.4502 x.752	2.4503 x.752	2.7505x.992
		No. 3	2.3004x.752	2.4502 x.752	2.4503 x.752	2.7505x.992
		No. 4	2.3004x.752	2.4502 x.752	2.4503 x.752	2.7505x.992
		No. 5	2.3004x.752	2.4508 x1.177	2.4508x1.177	2.7505x1.252
		No. 6	2.3004x.752	None		
		No. 7	2.3004x.760	None		
	Dir. & amt. cyl. offset		None			
	No. bolts/main brg. cap		14 & 7	10 & 5	16 & 5	10 & 5
Crankpin journal diameter			1.999-2.000	2.099-2.100	2.0988-2.0998	2.199-2.200

ENGINE – CAMSHAFT

Location			(c)	In block above crankshaft	
Material			Cast alloy iron		
Bearings	Material		Steel backed babbitt		
	Number		4	5	
Type of Drive	Gear or chain		Gear	Chain	
	Crankshaft gear or sprocket material		Steel	Steel sprocket	
	Camshaft gear or sprocket material		(d)	Nylon teeth with aluminum hub	
	Timing chain	No. of links	None	46	50
		Width	None	.780	.740
		Pitch	None	.500	.500

(a) No. 1 - .0008-.0020
No. 2, 3 & 4 - .0011-.0023
No. 5 - .0017-.0033

(b) No. 1 - .0007-.0019
No. 2, 3 & 4 - .0013-.0025
No. 5 - .0019 -.0035

(c) Above and to right of crankshaft

(d) Bakelite and fabric composition with steel hub

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MODEL			L6 250 145 HP	V8 307 200 HP	V8 350 245 & 270 HP	V8 350 330 HP	V8 396 300 HP
ENGINE – VALVE SYSTEM							
Hydraulic lifters (Std., opt., NA)			Standard			NA	Standard
Valve rotator, type (intake, exhaust)			None				
Rocker ratio			1.75:1	1.50:1			1.70:1
Operating tappet clearance (indicate hot or cold)	Intake		Zero			.020	Zero
	Exhaust		Zero			.025	Zero
Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°	28°		42°40'	28°
		Closes (°ABC)	48°	72°		94°20'	78°
		Duration - deg.	244°	280°		317°	286°
	Exhaust	Opens (°BBC)	46°30'	78°		112°50'	75°
		Closes (°ATC)	17°30'	30°		53°23'	31°
		Duration - deg.	244°	288°		346°13'	286°
	Valve opening overlap		33°30'	58°		96°3'	59°
Intake	Material		Alloy steel; aluminized face all engines except V8 307 & 350 (a)				
	Overall length		4.902-4.922	4.870-4.889			5.215-5.235
	Actual overall head dia.		1.715-1.725	1.935-1.945		2.017-2.023	2.060-2.070
	Angle of seat & face		46° (seat); 45° (face)				
	Seat insert material		None				
	Stem diameter		.3410-.3417				.3715-.3722
	Stem to guide clearance		.0010-.0027				
	Lift (- zero lash)		.3880	.3900		.4586	.3983
	Outer spring press. & length	Valve closed (lb. - in.)	56-64 @ 1.66	76-84 @ 1.70			69-81 @ 1.88
		Valve open (lb. - in.)	180-192 @ 1.27	194-206 @ 1.25			228-252 @1.38
	Inner spring press. & length	Valve closed (lb. - in.)	None	Spring Damper			26-34 @ 1.78
		Valve open (lb. - in.)	None	Spring Damper			81-99 @ 1.28
Exhaust	Material		High alloy steel, aluminized face (b)				
	Overall length		4.913-4.933			4.891-4.910	5.345-5.365
	Actual overall head dia.		1.495-1.505			1.595-1.605	1.715-1.725
	Angle of seat & face		46° (seat); 45° (face)				
	Seat insert material		None				
	Stem diameter		.3410-.3417				.3713-.3720
	Stem to guide clearance		.0010-.0027				
	Lift (- zero lash)		.3880	.4100		.4850	.4300
	Outer spring press. & length	Valve closed (lb. - in.)	56-64 @ 1.66	76-84 @ 1.70			69-81 @ 1.88
		Valve open (lb. - in.)	180-192 @ 1.27	194-206 @ 1.25			228-252 @ 1.38
	Inner spring press. & length	Valve closed (lb. - in.)	None	Spring Damper			26-34 @ 1.78
		Valve open (lb. - in.)	None	Spring Damper			81-99 @ 1.28

(a) Head also aluminized on V8 396

(b) Head also aluminized on V8 350 (330 HP) and V8 396

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MODEL

ENGINE – LUBRICATION SYSTEM

		L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 270 HP	V8 350 330 HP	V8 396 300 HP
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	Centrifugally oiled from crankshaft bearing				
	Cylinder walls	Splash	Pressure jet cross sprayed				
Oil pump type		Gear					
Normal oil pressure (lb. @ engine rpm)		40 PSI @ 2000 RPM					
Oil press. sending unit (elect. or mech.)		Electric					
Type oil intake (floating, stationary)		Stationary					
Oil filter system (full flow, part., other)		Full flow					
Filter replacement (element, complete)		Complete					
Capacity of c/case, less filter-refill (qt.)		4					
Oil grade recommended (SAE viscosity and temperature range)		•20° F and above - 20W, 10W-30, 10W-40, 20W-40 0° to 60° F - 10W, 5W-30, 10W-30, 10W-40 Below 20° F - 5W, 5W-20, 5W-30					
Engine Service Reqmt. (MM, MS, etc.)		MS					

ENGINE – EXHAUST SYSTEM

		Single	Single with crossover	Dual exhaust with single muffler
Type (single, single with cross-over, dual, other)		Single	Single with crossover	Dual exhaust with single muffler
Muffler No. & type (reverse flow, straight thru, separate resonator)		One, reverse flow		
Exhaust pipe dia. (O.D., wall thick.)	Branch	None	2.00x. 082 (a)	None
	Main	2.00x. 064	2.00x. 082 (a)	2.25x. 082 (a)
Tail pipe dia. (O.D. & wall thickness)		2.00 x .069		2.00x. 069

(a) Laminated

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MODEL

ENGINE – FUEL SYSTEM

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

			L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 270 HP	V8 350 330 HP	V8 396 300 HP
Induction type: Carburetor, fuel injection, supercharger.			Carburetor					
Fuel Tank	Refill capacity (U.S. gals.)		Approximately 17					
	Filler location		Behind hinged rear license plate					
Fuel Pump	Type (elec. or mech.)		Mechanical					
	Locations		Lower right front of engine					
	Pressure range *		4.00-5.00	5.50-7.00	7.50-9.00			
Vacuum booster (std., optional, none)			None					
Fuel Filter	Type		Fine mesh plastic strainer in gasoline tank and paper filter (sintered bronze with V8 307) in carburetor inlet					
	Locations							
Carburetor	Choke type		Automatic					
	Intake manifold heat control (exhaust or water)		Exhaust					
	Air cleaner type	Standard	Thermostatically controlled; oil wetted paper element**					
		Optional	None					
	Idle speed (spec. neutral or drive)	Manual (N)	550	600	600	700	600	
		Automatic (D)	550		550	700	600	
		Idle A/F mix.	Not Specified					

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
12387	250	Manual	Rochester	7041017	One; 1-bbl	1.69
		Automatic		7041014		
12487	307	Manual	Rochester	7041101	One; 2-bbl	1.44
		Automatic		7041110		
	350 245hp	Manual	Rochester	7041113	One; 2-bbl	1.69
		Automatic		7041114		
	350 270hp	Manual	Rochester	7041203	One; 4-bbl	1.38 Prim. 2.25 Sec.
		Automatic		7041202		
	350 330hp	Manual	Holley	3989021	One; 4-bbl	1.69 Prim. 1.69 Sec.
		Automatic		3989022		
	396 300hp	Manual	Rochester	7041201	One; 4-bbl	1.38 Prim. 2.25 Sec.
		Automatic		7041200		

* Shut off pressure - 1800 RPM at pump outlet

** V8 350 (330HP) & V8 396 - Dual air horns

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MODEL

ENGINE – COOLING SYSTEM

		L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 270 HP	V8 350 330 HP	V8 396 300 HP
Type system (pressure, pressure vented, atmospheric, other)		Pressure					
Radiator cap relief valve pressure		15 ±1 PSI					
Circulation thermostat	Type (choke, bypass)	Choke					
	Starts to open at (•F)	192°-198°			177°-183°		192°-198°
Water pump	Type (centrifugal, other)	Centrifugal					
	GPM 1000 pump rpm	27@2000		25@2000			327 @ 2000
	Number of pumps	One					
	Drive (V-belt, other)	V-belt					
	Bearing type	Permanently lubricated double row ball					
By-pass recirculation type (inter., ext.)		Internal					External
Radiator core type (cellular, tube and fin, other)		Tube and center					
Cooling system capacity	With heater (qt.)	12	15	16			24
	Without heater (qt.)	11	14	15			23
	Opt. equipment-specify (qt.)	13	16	16			24
Water jackets full length of cyl. (yes, no)		Yes					
Water all around cylinder (yes, no)		Yes					
Radiator hose	Lower: Number and type (molded, straight)	One, molded					
	Lower: Inside diameter	1.75					1.88
	Upper: Number and type (molded, straight)	One, molded					
	Upper: Inside diameter	1.50					
	By-pass: Number and type (molded, straight)	None					One, molded
	By-pass: Inside diameter	None					.725-.765
Fan	Number of blades & spacing	4 - staggered			5		4
	Diameter ●	17.62			18.00		17.62
	Ratio-fan to crankshaft rev.	1.165:1	.949:1		1.15:1		.949:1
	Fan cutout type ●	None					
	Bearing type	Double row ball					
*Drive belts (indicate belt used by letter)	Fan	A	C		F		
	Generator or alternator	A	C		F		
	Water Pump	A	C		F		
	Power Steering	B	D		G		H
	Air Conditioning	--	E		--		I

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V					38°-42°						
Nominal length (SAE)	37.30	48.50	44.25	36.00	54.50	45.75	35.00	41.00	58.00		
Width					.380						

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MODEL | L6 250, V8 307 V8 350 (245 & 270 HP) & V8 396 | V8 350 330 HP

VEHICLE EMISSION CONTROL

				Engine modifications	Air Injection
Exhaust Emission Control	Type (Air injection, engine modifications, other)				
	Air Injection Pump	Type			semi-articulated vane type
		Displacement			19.3 cubic inch
		Drive ratio			1.15:1
		Drive type			Crankshaft pulley
		Relief valve (type)			Diverter valve
		Filter (describe)			centrifugal 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)			Diverter valve
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Standard		Induction system
			Optional		----
	Control Unit	Make and model			A C Spark Plug
		Location			Rocker cover-top rear L6 and left front V8
		Energy source (manifold vacuum, carburetor, other)			Manifold vacuum
		Control method (variable orifice, fixed orifice, other)			Variable orifice
	Complete system	Discharges (to intake manifold, other)			Intake manifold
		Air inlet (breather cap, other)			Carburetor air cleaner
		Flame arrestor (screen, other)			Screen
Evaporative Emission Control	Fuel Tank	Refill Capacity (U.S. gallons)			18 Approximately
		Thermal expansion volume (cu. ft.)			.375
		Pressure relief location (lbs.)			.0904 PSI to 1.26 PSI
		Vacuum relief location (lbs.)			.18 PSI to .51 PSI
		Vapor-liquid separator type			Stand Pipe
		Vapor vented to (crankcase, connister, other)			Cannister
					--
	Carburetor	Vapor vented to (crankcase, connister, other)			--
					--
	Vapor Storage	Storage provision (crankcase, connister, other)			Cannister
		Volume (cu. ft.) or capacity (grams)			45 approximately
		Control valve type			Single vacuum operating stage valve

NOT APPLICABLE

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MODEL	L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 330 HP	V8 396 300 HP

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model	Delco-Remy 1980141	Delco-Remy 1980145		
	Voltage Rtg. & Total Plates	12 volts - 54 plates	12 volts - 66 plates		
	SAE Designation & Amp. Hr. Rtg.	45 amp hr@20 hr rate	61 amp hr @ 20 hr rate		
	Location	Right side of engine compartment			
	Terminal grounded	Negative			
Generator or Alternator	Make	Delco-Remy			
	Model	1100834	1100837	1100834	
	Type and rating	Diode rectified - 37 amps			
	Output at engine idle (neutral)	13 amps			
	Ratio–Gen. to Cr/s rev.	2.53:1	2.15:1	2.53:1	
Regulator	Make	Delco-Remy			
	Model				
	Type	Two unit vibrator			
	Cutout relay – Closing voltage – generator rpm				
	Cutout relay – Reverse current to open				
	Regulated – Voltage	13.8-14.8 @ 85° F			
	Regulated – Current	---			
	Voltage test conditions – Temperature	Operating			
	Voltage test conditions – Load	3-8 amperes			
	Voltage test conditions – Other	None			

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make	Delco-Remy			
	Model	1108365	1108367	1108418	
	Rotation (drive end view)	Clockwise			
Motor control	Switch (solenoid, manual)	Solenoid			
	Starting procedure	Manual - Place gearshift lever in neutral & depress clutch Automatic - Place control lever in N or P position. Initial Start - Press accelerator to floor & release. Turn ignition to START, release as soon as engine starts.			
Motor Drive	Engagement type	Positive shift solenoid			
	Pinion meshes (front, rear)	Rear			
	Number of teeth – Pinion	9			9
	Number of teeth – Flywheel – Manual	153			168
	Number of teeth – Flywheel – Auto.	153			168
	Flywheel tooth face width – Manual	.4010-.4130			.410-.42
	Flywheel tooth face width – Auto.	.4010-.4130			.410-.42

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MODEL	L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 270 HP	V8 350 330 HP	V8 396 300 HP

ELECTRICAL – IGNITION SYSTEM – DISTRIBUTOR

Breaker gap (in.)		.019					
Cam angle (deg.)		31-34	29-31				28-30
Breaker arm tension		19-23					28-32
Distributor	Manual	1110489	1112005	1112042	1112044	1112049	1112057
	Automatic	1110489	1112039	1112005	1112045	1112074	1112057
Timing (RPM)	Manual ●	4°BTC@550	4°BTC@600	2°BTC@600	4°BTC@600	8°BTC@700	8°BTC@600
	Automatic	4°BTC@500	8°BTC@550	6°BTC@550	8°BTC@550	12°BTC@700	8°BTC@600

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1110489	1270	14@ 2300	24 @ 4100	8.00	22 @ 16
1112039	1320	- -	20 @ 4200	8.00	20 @ 17
1112005	1000	14 @ 2200	24 @ 4300	8.00	20 @ 17
1112042	1120	15 @ 2200	28 @ 4300	8.00	20 @ 17
1112044	1160	15 @ 2400	22 @ 4200	8.00	15 @ 15.5
1112045	1335	11 @ 2400	18 @ 4200	8.00	15 @ 15.5
1112049	1330	16 @ 2250	24 @ 5000	8.00	15 @ 15.5
1112074	1366	12 @ 2200	20 @ 5000	8.00	15 @ 15.5
1112057	1260	16 @ 2400	30 @ 4400	8.00	20 @ 17

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MODEL

	L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 270 HP	V8 350 330 HP	V8 396 300 HP

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.	Standard					
	Transistorized – Std., Opt., N.A.	Not available					
	Other (specify)	None					
Coil	Make	Delco-Remy					
	Model	1115208	1115293		1115298	1115293	
	Amps – Engine stopped	4.0					
	Amps – Engine idling	1-8					
Spark Plug	Make	A C Spark Plug					
	Model	AC R46TS	AC R45TS		AC R44TS	AC R43TS	AC R44TS
	Thread (mm)	14					
	Tightening torque (lb. ft.)	25					
	Gap	.033-.038					
Cable	Conductor type	Linen core impregnated with electrical conducting matl.					
	Insulation type	Rubber with Neoprene jacket					
	Spark plug protector	Neoprene					

ELECTRICAL – SUPPRESSION

Locations & type	Non-metallic high ignition cables

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial, with pointer
	Trip odometer (std. opt., N.A.)	No
Charge indicator – type		Tell-tale
Temperature indicator – type		Tell-tale
Oil pressure indicator – type		Tell-tale
Fuel indicator – type		Electric gauge
Windshield wiper	Type – Standard	Electric, two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-Button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	One (low note)
	Amp draw (each)	4.5-6.5 @ 12.5 V
Other		

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MODEL	L6 250 145 HP	V8 307 200 HP	V8 350 245 HP	V8 350 270 HP	V8 350 (330 HP) & V8 396

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Chevrolet Single dry disc		Chevrolet, single dry disc centrifugal	
Type pressure plate springs		Diaphragm 2200		Diaphragm, bent finger design	
Total spring load (lb.) ●		1650-1850	1900-2000	2100-2300	2450-2750
No. of clutch driven discs		One			
Clutch facing	Material	Woven type asbestos			
	Outside & inside dia.	9.12x6.12	10.34 x 6.50		11.00 x 6.50
	Total eff. area (sq.in.)	71.82	101.54		123.70
	Thickness	.135			.140
	Engagement cushioning method	Flat spring steel between facings			
Release bearing	Type & method of lubrication	Simple row ball, packed and sealed			
Torsional damping	Methods: springs, friction material	Coil springs			

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std., opt. N.A.)	Standard	Not available
Manual 4-speed (std., opt. N.A.)	Not available	Standard
Automatic (std., opt. N.A.)	Optional	

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3	4			
Transmission ratios	In first	2.85	2.54	2.52	2.52	2.20
	In second	1.68	1.80	1.88	1.88	1.64
	In third	1.00	1.44	1.46	1.46	1.27
	In fourth	--	1.00	1.00	1.00	1.00
	In reverse	2.95	2.54	2.59	2.59	2.26
Synchronous meshing, specify gears		All forward gears				
Shift lever location		Floor mounted				
Lubricant	Capacity (pt.)	3				
	Type recommended	Meeting military specs. MIL-L-2105B				
	SAE viscosity number – Summer	SAE 80				
	SAE viscosity number – Winter	SAE 80				
	SAE viscosity number – Extreme cold	SAE 80				

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MODEL

DRIVE UNITS – AUTOMATIC TRANSMISSION

		2-SPEED AUTOMATIC		3-SPEED AUTOMATIC	
		L6 250	V8 307	V8 307 & V8 350 245 & 270 HP	V8 350 330 HP & V8 396
Trade name		Powerglide		Turbo Hydra - Matic	
Type describe		Torque converter with planetary gears			
Selector location		On column - Floor mounted in console, optional			
List gear ratios Selector Pattern and indicate which are used in each selector position		P - Park R - Reverse N - Neutral D - 1.82 - 1.00 L - 1.82		P - Park R - 1.93 N - Neutral D-2.52-1.52-1.00 L2 - 2.52 - 1.52 L1 - 2.52	P - Park R - 2.08 N - Neutral D - 2.48-1.48-1.00 L2 - 2.88 - 1.48 L1 - 2.48
Max. upshift speed–drive range		57	60	*	
Max. kickdown speed–drive range		53	57	*	
Torque convertor	Number of elements	3			
	Max. ratio at stall	2.10			
	Type of cooling (air, liquid)	Water			
	Nominal diameter	11.75		11.76	12.20
Lubricant	Capacity–refill (pt.)	6		5	8
	Type recommended	A suffix A			
Special transmission features					

DRIVE UNITS – PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube
Outer diam. x length* x wall thickness	Manual 3-speed trans.	2.75 x 49.20 x .065
	Manual 4-speed trans.	Same as 3-Speed
	Overdrive transmission	Not available
	Automatic transmission	Same as 3-Speed

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

(Continued)

* Upshift: -V8-307 (1-2 48; 2-3 81) V8-350 245 HP (1-2 48; 2-3 85) V8-350 270 HP (1-2 44; 2-3 75) V8-350 330 HP (1-2 41; 2-3 75) V8-396 (1-2 40; 2-3 72)

Kickdown: V8-307 (2-1 34; 3-2 80) V8-350 245 HP (2-1 34; 3-2 84) V8-350 270 HP (2-1 30; 3-2 75) V8-350 330 HP (2-1 27; 3-2 69) V8-396 (2-1 32; 3-2 67)

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MODEL

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		---
Slip Yoke	Type		Yoke
	Number of teeth		27
	Spline O.D.		1.502
Universal joints	Make and Mfg. No.		Chevrolet -
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		U - bolt
	Bearing	Type (plain, anti-friction)	Anti-Friction
		Lubric. (fitting, prepack)	Pre-pack
Drive taken through (torque tube or arms, springs)			Springs
Torque taken through (torque tube or arms, springs)			Springs

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-floating, overhung pinion gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.75
No. of differential pinions			Two
Pinion adjustment (shim, other)			None
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Single row cylindrical roller
Lubricant	Capacity (pt.)		3.5
	Type recommended		Meeting Military Specs. MIL - 2105B
	SAE viscosity number	Summer	SAE - 80
		Winter	SAE - 80
		Extreme cold	SAE - 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.73	3.08	3.42	3.73	4.10
No. of teeth	Pinion	15	12	12	11	10
	Ring gear	41	37	41	41	41
Ring Gear O.D.		8.50				

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MODEL

DRIVE UNITS – WHEELS

Type & material		Short spoke disc; steel
Rim (size & flange type)	Std.	14x6; 14x7 - "SS" models; 15x7 (Trans Am) - Z28
	Opt.	14x7 (Rally) base & SS models
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 hex nuts, 7/16-20 UNF - 2B

MODEL

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		Base, RS models & L65 - E78-14B; SS models-F70-14B; Z28 - F60 - 15B
	Type (bias, radial, etc.)		Fiberglass bias belted
	Full rated Inflation Press.	Front	Cold - 24; Hot - 30
		Rear	Cold - 26; Hot - 32
	Rev./Mile at 50 MPH		E78-14B-800; F70-14B-784; F60-15B-801
Optional	Size, ply rating, & ply		F70-14B) Base, RS & L65 models

BRAKES – PARKING

Type of control		Foot pedal-apply; "T" handle-release
Location of control		Left of steering column under instrument panel
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	---
	Drum diameter	---
	Lining size (length x width x thickness)	---

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MODEL

BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)					Disc - front; Drum - rear
Self adjusting (std., opt., N.A.)					Standard
Special Valving	Type (proportion, delay, metering, other)				Metering and proportioning
Power brake make & type (remote, int., etc.)		Std.			---
		Opt.			Delco-Moraine vacuum power unit; integral
Effective area (sq. in.) *					106.1
Gross lining area (sq. in.) **					118.1
Swept area (sq. in.) ***					332.4
Front to Rear Effectiveness Relationship					---
Drum	Diameter (nominal)	Front			---
		Rear			9.5
	Type and material				Composite; cast iron rim, steel web
Rotor	Outer working diameter				11.0
	Inner working diameter				7.18
	Working width				1.00
	Material & type (vented/solid)				Cast iron; vented
Wheel cylinder bore	Front				2.9375
	Rear				0.875
Master Cylinder	Bore				1.125
	Stroke				1.41
Pedal arc ratio					3.82
Line pressure at 100 lb. pedal load					1040
Shoe Clearance	Front				Self-adjusting
	Rear				Self-adjusting
Anti-skid device type (std., opt., N.A.)					N.A.
Brake lining	Bonded or riveted				Disc - riveted; Drum - bonded
	Front Wheel	Material			Molded asbestos
		Size (length x width x thickness)	Prim. or outboard		5.40x1.93x0.46
			Second. or inboard		5.40x1.93x0.46
		Segments per shoe			One
	Rear Wheel	Material			Molded asbestos
		Size (length x width x thickness)	Prim. or outboard		9.01x2.0x0.17
			Second. or inboard		9.75x2.0x0.20
		Segments per shoe			One

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

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

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MODEL

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; universally jointed steering shaft at base of steering wheel; 5 inch vertical travel range
		(std., opt., NA)		Optional
Wheel diameter		Manual		Oval 15.25 x 14.75
		Power		Same as manual
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		41.0
		Curb to curb (l. & r.)		39.0
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Manual	Gear	Type		Semi-reversible, recirculating ball stud
		Make		Saginaw Steering
		Ratios	Gear	28.0:1; Z28 - 24.0:1
			Overall	32.99:1; Z28 - 22.5:1
	No. wheel turns (stop to stop)			6.19
Power	Type (coaxial, linkage, etc.)			Integral with vane type pump
	Make			Saginaw Steering
	Gear	Type		Same as manual
		Ratios	Gear	16.0:1 - 13.0:1
			Overall	15.5:1 - 11.8:1
	Pump driven by			Crankshaft pulley
	No. wheel turns (stop to stop)			2.29
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Front
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two
Steering Axis	Inclination at camber (deg.)			9.5 ± 1/2; Z28 - 9-3/4 ± 1/2
	Bearings (type)	Upper		Ball stud with non-metallic bearings
		Lower		Ball stud with non-metallic and sintered iron bearings
		Thrust		None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			0° ± 1°; Z28 - 1° ± 1°
	Camber (deg.)			+1° ± 3/4°; Z28 +3/4° ± 3/4°
	Toe-in (outside track inches)			1/16 to 5/16; Z28 - 1/16 to 5/16
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

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MODEL

SUSPENSION – GENERAL

(See Supplement 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 inch inboard of bumper bolt Rear: 2-1/2 inch inboard of bumper bolt
Shock absorber front & rear	Type	Direct, double acting hydraulic
	Make	Delco
	Piston dia.	1.00
Other special features		

SUSPENSION – FRONT

Type and description		Independent: SLA type with coil springs and concentric shock absorber and spherically jointed steering knuckle for each wheel.
Spring	Type	Coil, right hand helix
	Material	Steel alloy
	Size (coil design height & I.D.; bar length x dia.)	Base model 12387; 11.0 x 4.08; 126.38 x 0.631
	Spring rate (lb. per in.)	Except Z28 300 to 330; Z28-300
	Rate at wheel (lb. per in.)	
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel; 0.938 – 1.0 on Z28

SUSPENSION – REAR

Type and description			Salisbury rear axle with multiple leaf springs
Drive and torque taken through			Rear springs
Spring	Type		Multiple leaf
	Material		Chrome carbon steel
	Size (length x width, coil design height & I.D.; bar length & dia.)		56.0 x 2.80
	Spring rate (lb. per in.)		125
	Rate at wheel (lb. per in.)		125
	Mounting insulation type		Rubber bushed at shackle and hanger
	If leaf	No. of leaves	Base model - 5
		Shackle (comp. or tens.)	Compression
Stabilizer	Type (link, linkless, frameless)		Link-standard on Z28 &SS 396
	Material		Steel
Track bar type			None

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MODEL

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	Body-frame integral with separate partial frame

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	None
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Indent. No. location		Top left hand of instrument and panel pad
Engine No. location		Top front of RH bank of cylinder case
Theft protection - type		Lock, mounted on steering column; locks steering wheel, transmission shift lever and ignition
Vent window control method (crank, friction pivot)	Front	None
	Rear	None
Seat cushion type	Front	Formed foam pad
	Rear	Formed foam pad
	3rd seat	---
Seat back type	Front	Formed foam pad
	Rear	Formed foam pad
	3rd seat	---
Windshield glass type (i.e., single curved - laminated plate)		Single curved laminated plate
Side glass type (i.e., curved - tempered plate)		Curved, tempered plate
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Single curved, tempered plate
Windshield glass exposed surface area		1137.6
Side glass exposed surface area		1089.4
Backlight glass exposed surface area		1099.2
Total glass exposed surface area		3326.2

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MODEL

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	NA
	Vent windows	NA
	Backlight or tailgate	NA
Power seats (specify type as well as availability)		NA
Reclining front seat back (R-L or both)		Standard
Front seat head restrainer (R-L or both)		Optional AM Push-button, AM-FM Push-button
Radios (specify type as well as availability)		Optional
ear seat speaker		NA
wer antenna		Optional
Clock		Optional-Four season, Manual control
Air conditioner (specify type and availability)		NA
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		Standard
Dome lamp		Optional
Glove compartment lamp		Optional
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		NA
Map lamp		Standard
Auto. trans. quad. lamp		NA
Cornering light lamp		Available with factory installed radio, and
Windshield Antenna		with tinted windshield glass

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	26.3
		Lowest	--
	Tail	Highest	22.1
		Lowest	--
	Sidemarker	Front	24.0
		Rear	19.75
Distance from C/L of car to center of bulb	Headlamp	Inside	--
		Outside *	27.9
	Tail	Inside	--
		Outside	25.25
	Directional	Front	24.25
		Rear	25.25

* If single headlamps are used enter here.

AMA Specifications Form—Passenger Car

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MAKE OF CAR CAMARO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (e)

VEHICLE WEIGHTS

	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
Model									
250 6 Cyl. Engine 2-Door Sport Coupe	1760	1426	3186	44.0	56.0	18.6	81.4	110	25
307 V8 Engine 2-Door Sport Coupe	1864	1446	3310	44.0	56.0	18.6	81.4	110	32

*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

AMA Specifications Form—Passenger Car

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MAKE OF CAR CAMARO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (•)

OPTIONAL EQUIPMENT WEIGHTS

Equipment Differential Weights	WEIGHT POUNDS Front	Rear	Total	Remarks
Rally Sport Package	+ 29	- 2	+ 27	
Deluxe Interior	+ 11	+17	+ 28	
Power Brakes	+ 9	+ 1	+ 10	
Power Steering	+ 29		+ 29	
Radio AM, Push button	+ 6	+ 2	+ 8	
Radio AM/FM Push button	+ 6	+ 2	+ 8	
Air Conditioning	+100	+12	+112	
Floor Console	+ 9	+ 3	+ 12	With 3-speed transmission
	+ 9	+ 3	+ 12	With 4-speed transmission
	+ 14	+ 4	+ 18	With automatic transmission
350 Cu. In. L65 (245 HP)	+ 14	+ 1	+ 15	
350 Cu. In. L48 (270 HP)	+ 29	+24	+ 53	
402 Cu. In. LS3 (300 HP)*	+182	+25	+207	
350 Cu. In. Z28 (330 HP)*	+ 61	+56	+117	
4-Speed Transmission	+ 4	+ 2	+ 6	Used with L65
	- 4	- 2	- 6	Used with L48, LS3, & Z28
Powerglide transmission	- 13	-10	- 14	Used with L-6
	- 10	0	- 10	Used with 307 cu. in.
Turbo Hydra-matic Trans.	+ 18	+ 9	+ 27	Used with 307, L65 & L48
	+ 28	+14	+ 42	Used with LS3 & Z28

* Available as "SS" equipment only; engine weight only shown and does not include additional weight for body and chassis items.

1971 Camaro

	V8*	6
Sport Coupe	12467	12387

*Camaro SS (RPO Z27), Rally Sport (RPO Z22), and Z28 (RPO Z28) equipment available.

Index

Camaro models and index / 1

New Camaro Features for 1971 . . .

- New vinyl roof cover color choices
- New interior color choices
- New high-back bucket seats with built-in head restraint
- New softer instrument panel knobs
- New standard steering wheel with cushioned center
- Optional steering wheels include the luxurious Custom (RPO NK2) or Sport with 4-spoke styling (RPO NK4)
- Slim-line spark plugs
- New engine mounts now included with six as well as all V8 power teams
- Evaporative Emission Control system now standard equipment
- New optional wheel cover styling
- 15 Magic-Mirror colors—12 new

Occupant Protection Features

- Seat belts with pushbutton buckles for all passenger positions
- Shoulder belts with pushbutton buckles —driver and right front passenger
- Two front seat head restraints
- Energy-absorbing steering column
- Passenger-guard door locks with forward-mounted lock buttons
- Safety door latches and hinges
- Folding seat back latches
- Energy-absorbing instrument panel and front seat back tops
- Contoured roof rails
- Thick-laminate windshield
- Padded sun visors
- Safety armrests
- Safety steering wheel
- Side-guard beams
- Cargo-guard luggage compartment

Accident Prevention Features

- Side marker lights and reflectors (front side marker lights flash with directional signal)
- Parking lights that illuminate with headlights
- Four-way hazard warning flasher
- Back-up lights
- Lane-change feature in direction signal control
- Windshield defroster, washers and dual-speed wipers
- Wide-view inside day-night mirror (vinyl-edged, shatter-resistant glass)
- Outside rearview mirror
- Dual master cylinder brake system with warning light
- Starter safety switch
- Dual-action safety hood latches

Anti-Theft Features

- Anti-theft ignition key warning buzzer
- Anti-theft steering column lock

Traditional quality features . . .

- Full door-glass styling
- Side marker lights front and rear
- Long hood styling
- Slender full-width front bumper, silver-finish grille in large grid pattern, license plate mounting centered between front bumper guards, wide parking lights below bumper
- Single-unit Power-Beam headlights recessed in bright frames on front fenders
- Wide body sill moldings
- Flush-mounted door handles
- Swept-back roof and rear deck styling
- Strato-bucket seats standard equipment
- Astro Ventilation system with large rectangular vent-ports on instrument panel
- Recessed door handles
- Forward-mounted door lock buttons
- Wide (10") inside day-night rearview mirror (bonded to windshield glass)
- Foot-operated parking brake
- Deep-twist carpet floor covering
- Suspended accelerator pedal
- Efficient valve-in-head design
- Quiet hydraulic valve lifters
- Positive-shift starter
- Sealed side-terminal energizer battery
- Automatic choke on all engines
- Advanced accessory drive system on all V8 engines
- Delcotron generator
- 7-main bearing six-cylinder engine with fully counterweighted crankshaft
- Transmission-controlled spark advance
- Magic-Mirror acrylic lacquer finish
- Acoustically engineered double-panel roof structure
- Flush-and-dry rocker panels
- Curved side windows
- Flush-mounted windshield and rear window bonded to body
- Dual-speed electric windshield wipers
- Built-in blended-air heater and defroster system
- Inner fenders front and rear
- 108" wheelbase
- Separate front frame unit
- Advanced-design front suspension with forward-mounted steering linkage
- Wide front and rear tread
- Bias belted ply tires
- Computer-selected front and rear springs
- Independent coil front suspension
- Multi-leaf rear springs
- Bias-mounted rear shock absorbers (curb side unit mounted ahead of axle, other mounted behind) for excellent suspension control
- Disc brakes standard on front wheels (power operation optional)
- Precise Ball-Race steering
- Self-adjusting brakes
- 6000-mile or four-month chassis lubrication
- 17-gallon (approx.) fuel tank

Revised January, 1971

Interior Trim

	seat style	Black	Dark Blue	Dark Jade	Dark Saddle	Sandalwood	Black/ Blue	Black/ Jade	Black/ Saddle	Black/ White
Sport Coupe with standard vinyl interior	Strato-Bucket	775	776	778	779	777				
Sport Coupe with cloth Custom Interior (RPO Z87)	Strato-Bucket	785					786	787	792	789

Exterior Colors	code									
Tuxedo Black	19	•	•	•	•	•	•	•	•	•
Mulsanne Blue	26	•	•			•	•			•
Ascot Blue	24	•	•			•	•			•
Classic Copper	67	•				•				•
Placer Gold	53	•			•	•			•	•
Lime Green	43	•		•	•	•		•	•	•
Cottonwood Green	42	•		•		•		•		•
Antique Green	49	•		•	•	•		•	•	•
Burnt Orange	62	•				•				•
Cranberry Red	75	•				•				•
Rosewood Metallic	78	•				•				•
Sandalwood	61	•		•	•	•		•	•	•
Nevada Silver	13	•	•			•	•			•
Antique White	11	•	•	•	•	•	•	•	•	•
Sunflower Yellow	52	•		•	•	•		•	•	•

Vinyl Roof Cover* Color Choices (RPO CO8)

vinyl roof color	code	exterior color availability
Black	BB	all exterior colors
Dark Blue	CC	Tuxedo Black, Mulsanne Blue, Ascot Blue, Nevada Silver or Antique White
Dark Brown	FF	Classic Copper, Burnt Orange, Rosewood Metallic, Sandalwood or Antique White
Dark Green	GG	Tuxedo Black, Lime Green, Cottonwood Green, Antique Green or Antique White
White	AA	all exterior colors

*Available at extra cost.

Seat and Shoulder Belt Colors

interior trim color	standard belts	custom deluxe belts*
Black	Black	Black
Dark Blue	Black	Dark Blue
Dark Jade	Black	Dark Jade
Dark Saddle	Black	Dark Saddle
Sandalwood	Black	Medium Beige
Black/Blue	Black	Dark Blue
Black/Jade	Black	Dark Jade
Black/Saddle	Black	Dark Saddle
Black/White	Black	Black

*Available at extra cost. Note: Standard seat and shoulder belt buckles black; custom deluxe buckles brush-finished.

Camaro Z28 Rally Stripe Colors—Included with Special Performance Option (RPO Z28)

exterior color	standard stripe color without vinyl roof cover	optional stripe color (RPO ZR8)	with vinyl roof cover				
			Black vinyl	White vinyl	Blue vinyl	Brown vinyl	Green vinyl
Tuxedo Black	White		White	White	White		White
Mulsanne Blue	Black	White	Black	White	Black		
Ascot Blue	Black	White	Black	White	Black		
Classic Copper	Black	White	Black	White		Black	
Placer Gold	Black	White	Black	White			
Lime Green	Black	White	Black	White			Black
Cottonwood Green	Black	White	Black	White			Black
Antique Green	Black	White	Black	White			Black
Burnt Orange	Black	White	Black	White		Black	
Cranberry Red	Black	White	Black	White			
Rosewood Metallic	Black	White	Black	White		Black	
Sandalwood	Black	White	Black	White		Black	
Nevada Silver	Black	White	Black	White	Black		
Antique White	Black		Black	Black	Black	Black	Black
Sunflower Yellow	Black	White	Black	White			

Engines, Transmissions and Axle Ratios

transmissions and rear axle ratios

engines	3-Speed (2.85:1 low)	4-Speed (2.54:1 low)	4-Speed (2.52:1 low)	4-Speed (2.20:1 low)	Special 4-Speed (2.20:1 low)	Powerglide	Turbo Hydra-matic
Standard Six 145-hp (110▲) Turbo-Thrift 250	3.08					3.08	
Standard V8 200-hp (140▲) Turbo-Fire 307 V8	3.08					3.08	2.73*
(RPO L65) 245-hp (165▲) Turbo-Fire 350 V8		3.08					2.73
270-hp (210▲) Turbo-Fire 350 V8 Included with Camaro SS (RPO Z27)			3.42				3.08
(RPO LS3) 300-hp (260▲) Turbo-Jet 396 V8 Optional for Camaro SS (RPO Z27) only			3.42	3.42			3.42
330-hp (275▲) Turbo-Fire 350 V8 Included with Camaro Z28 (RPO Z28)			3.73**	3.73**	3.73**		3.73**

▲SAE net (as installed) horsepower. *Trailering ratio: 3.42 **Performance ratio: 4.10 Note: Positraction required for 3.73 and 4.10 ratios; optional for all others.

Equipment Included With Optional* V8 Engines

Important equipment is included with optional* 350- and 396-cu.-in. V8 engines, supplementing or replacing equipment included with the standard 307-cu.-in. V8 engine. Other specialized equipment is also available (see Options section).

	245-hp (165▲) Turbo-Fire 350	270-hp (210▲) Turbo-Fire 350	300-hp (260▲) Turbo-Jet 396	330-hp (275▲) Turbo-Fire 350
Heavier front stabilizer			•	•
Special shock absorbers	•	•	•	•
Rear stabilizer			•	•
Heavier duty driveshaft universal joints			•	•
Larger capacity radiator	•	•	•	•
Heavier duty engine mounts			•	•
Dual exhaust (2¼-in. dia.)		•	•	•
Heavier duty clutch	•	•	•	•
Wide-oval F70 x 14 tires with 14″ x 7″ wheels		•	•	•
Special F60 x 15 tires and 15″ x 7″ wheels				•
Higher performance starting motor	•	•	•	•
Finned aluminum valve rocker covers				•
Special chrome accents on engine		•	•	•
Large in-line fuel filter and vapor return line to fuel tank		•†	•	

▲SAE net (as installed) horsepower. *Optional at extra cost. †Deep cover fuel pump with vapor return to fuel tank.

Revised January, 1971

Transmissions

	engine	transmission gear ratios (:1) 1	2	3	4	R	shift selector locations column	floor	console*
3-Speed Fully Synchronized (Standard)	Standard Six Standard V8	2.85	1.68	1.00		2.95		•	•
4-Speed Fully Synchronized (RPO M20)	245-hp (165▲) V8	2.54	1.80	1.44	1.00	2.54		•	•
	270-hp (210▲) V8 300-hp (260▲) V8 330-hp (275▲) V8	2.52	1.88	1.46	1.00	2.59			
4-Speed Fully Synchronized (RPO M21)	300-hp (260▲) V8 330-hp (275▲) V8	2.20	1.64	1.27	1.00	2.26		•	•
Special 4-Speed Fully Synchronized (RPO M22)	330-hp (275▲) V8	2.20	1.64	1.27	1.00	2.26		•	•
Powerglide (RPO M35)	Standard Six Standard V8	Drive (maximum)—3.82:1 to 1:1 Low and reverse—3.82:1 to 1.82:1					•		•
Turbo Hydra-matic (RPO M40)	Standard V8 245-hp (165▲) V8 270-hp (210▲) V8	Drive (maximum)—5.29:1 to 1:1 Low 2—5.29:1 to 1.52:1 Low 1—5.29:1 to 2.52:1 Reverse—4.05:1 to 1.93:1					•		•
	300-hp (260▲) V8 330-hp (275▲) V8	Drive (maximum)—5.21:1 to 1:1 Low 2—5.21:1 to 1.48:1 Low 1—5.21:1 to 2.48:1 Reverse—4.37:1 to 2.08:1							

▲ SAE net (as installed) horsepower

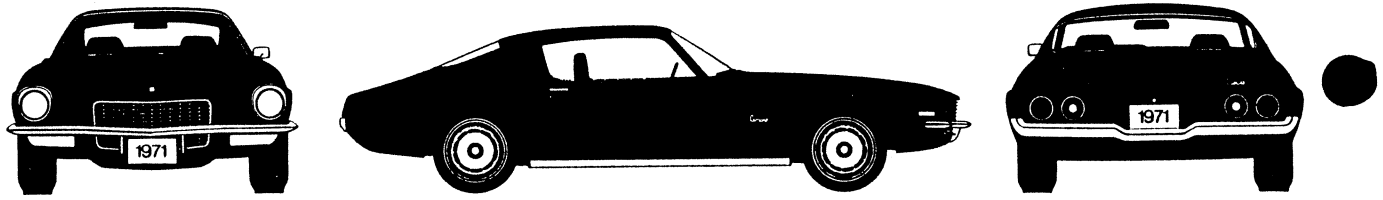
*Optional at extra cost

Clutches for Camaro 3- and 4-Speed Transmission Power Teams

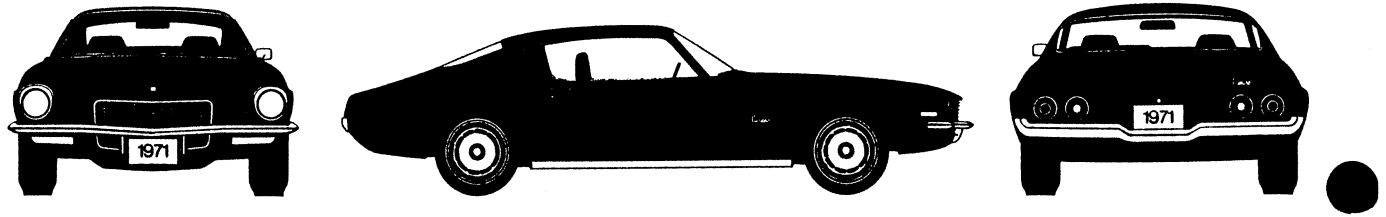
	Standard Six	Standard V8	245-hp (165▲) V8	270-hp (210▲) V8	300-hp (260▲) V8	330-hp (275▲) V8
	3-Speed	3-Speed	4-Speed	4-Speed	4-Speed	4-Speed
Clutch Type	diaphragm spring, with single dry disc		semi-centrifugal bent-finger diaphragm spring with single dry disc			
Disc facing material	woven asbestos		premium grade woven asbestos			
Disc facing outside diameter	9.12"	10.34"		11.00"		
Disc facing total area (sq. in.)	71.82	101.54		123.70		
Spring effective plate load (lbs.)	1650-1850	1900-2200	2100-2300	2450-2750		

▲ SAE net (as installed) horsepower

Camaro

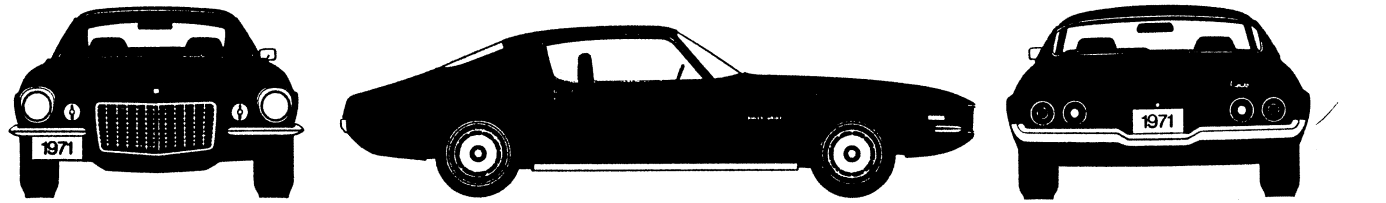


Camaro

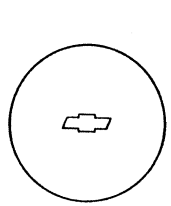


Camaro with Style Trim Group
(RPO Z21)

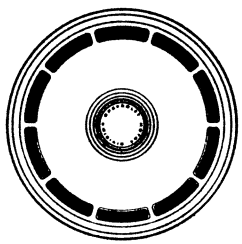
RALLY SPORT



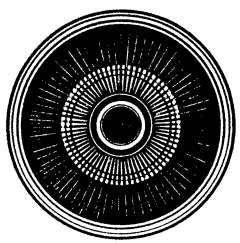
Camaro with Rally Sport
(RPO Z22)



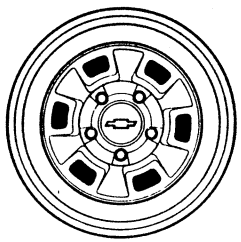
Camaro standard
hub cap



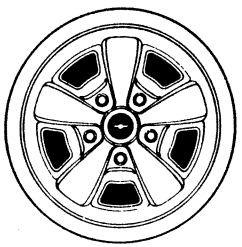
Full Wheel Cover
(RPO PO1)



Custom Wheel Cover
(RPO PO2)



Rally Wheel (RPO ZJ7)

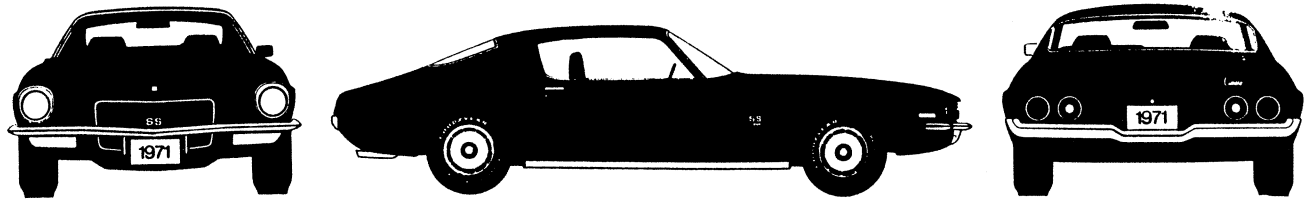


Special 15 x 7 wheel
included with Z28 equipment

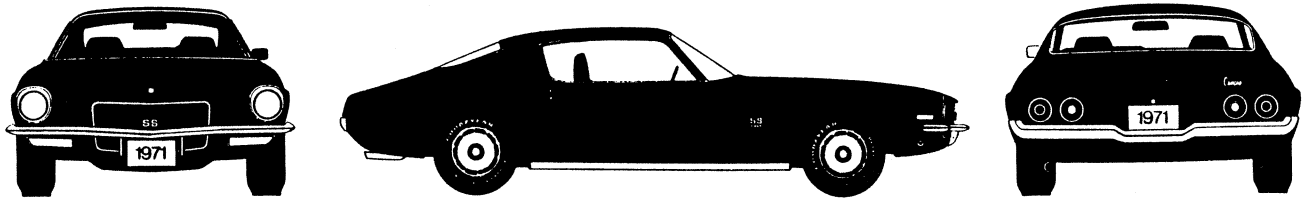
14 / Camaro exterior features

SS

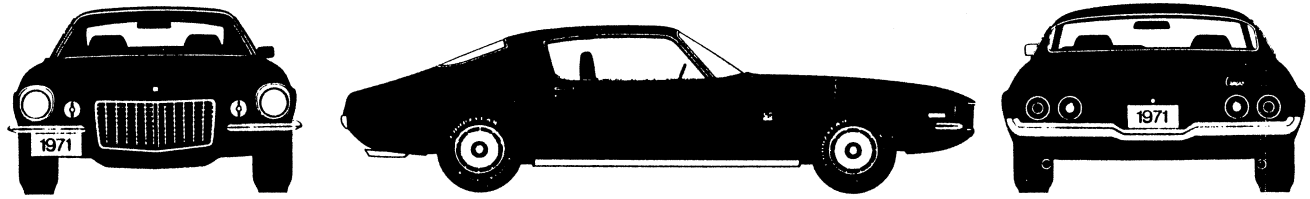
Camaro SS (RPO Z27)



Camaro SS (RPO Z27)
with Style Trim Group
(RPO Z21)

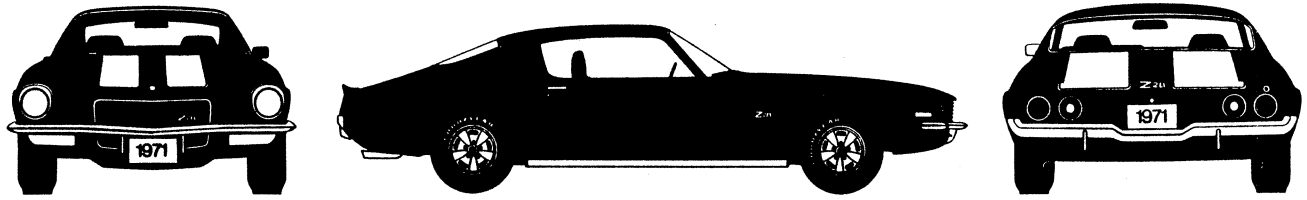


Camaro SS (RPO Z27)
with Rally Sport
(RPO Z22)

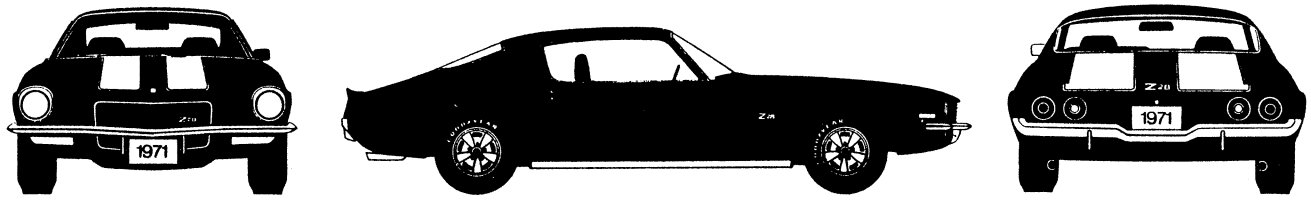


Z28

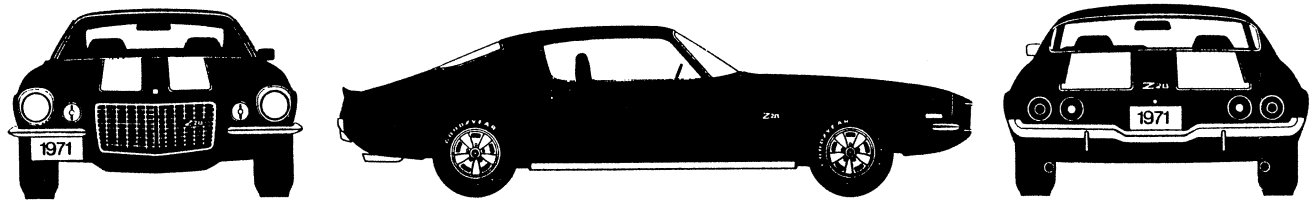
Z28 (RPO Z28)



Z28 (RPO Z28)
with Style Trim Group
(RPO Z21)



Z28 (RPO Z28)
with Rally Sport (RPO Z22)



Camaro Exterior Features	Camaro	Camaro with Style Trim Group (RPO Z21)*	Camaro with Rally Sport (RPO Z22)*
Full-width front bumper	•	•	
Black and argent grille with resilient vertical center bar			•
Silver finish grille	•	•	
Resilient grille frame			•
License plate mounting centered between front bumper guards	•	•	
Front bumperettes			•
Front bumper guards	•	•	
License plate mounting below right bumperette			•
Wide parking lights below bumper	•	•	
Roadlight-styled parking lights			•
Single unit headlights recessed in bright frames	•	•	•
Large diameter, high-output Power Beam headlights	•	•	•
Windshield molding	•	•	•
Hide-A-Way windshield wipers			•
Bright molding on rear edge of hood		•	•
Wide sill molding	•	•	
Bright side window moldings (partial)	•		
Bright side window moldings (full)		•	•
Flush mounted door handles	•	•	•
Color-accented door handles		•	•
Full door-glass styling	•	•	•
Rally Sport front fender nameplates			•
Side marker lights front and rear	•	•	•
Hub caps	•	•	•
Bright rear window molding	•	•	•
Bright-accented taillights	•	•	•
Bright-accented back-up lights	•	•	•

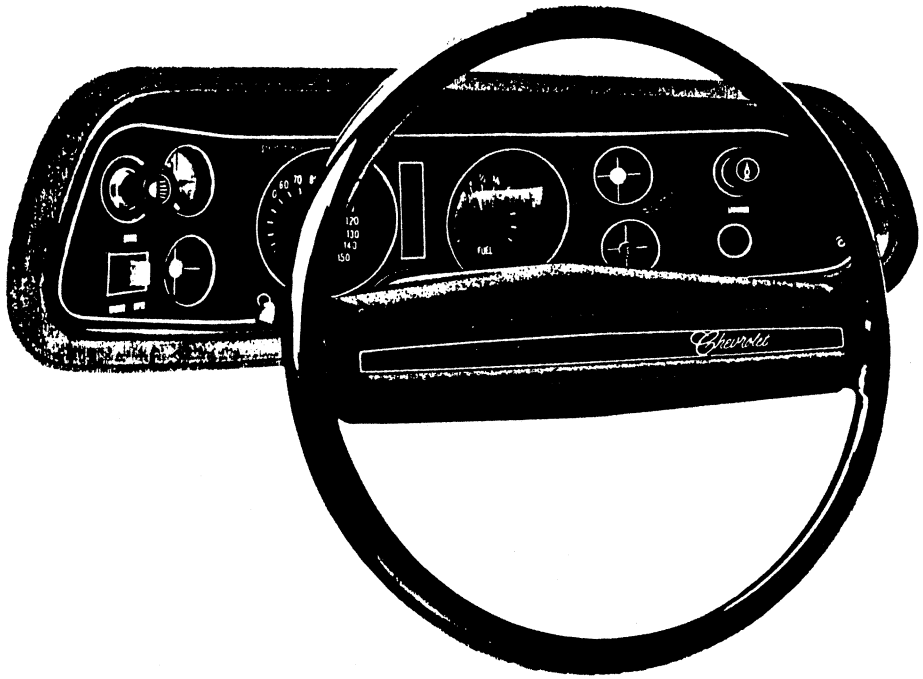
*Optional at extra cost

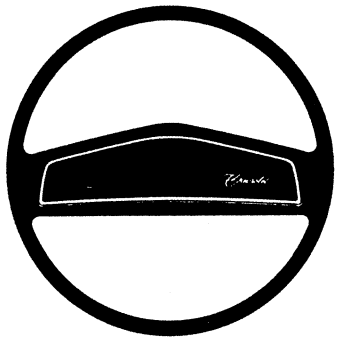
Camaro Exterior Features	Camaro SS (RPO Z27)**	Camaro SS with Style Trim Group (RPO Z21)**	Camaro SS with Rally Sport (RPO Z22)**	Z28 (RPO Z28)**	Z28 with Style Trim Group (RPO Z21)**	Z28 with Rally Sport (RPO Z22)**
Full-width front bumper	•	•		•	•	
Black grille with bright outline	•	•		•	•	
Black and argent grille with resilient vertical center bar			•			•
Resilient grille frame			•			•
License plate mounting centered between front bumper guards	•	•		•	•	
License plate mounting below right bumperette			•			•
Front bumperettes			•			•
Front bumper guards	•	•		•	•	
Wide parking lights below bumper	•	•		•	•	
Roadlight-styled parking lights			•			•
Single unit headlights recessed in bright frames	•	•	•	•	•	•
Large diameter, high-output Power Beam headlights	•	•	•	•	•	•
SS emblem on grille	•	•				
Z28 emblem on grille				•	•	•
Special stripes on hood				•	•	•
Windshield molding	•	•	•	•	•	•
Hide-A-Way windshield wipers	•	•	•			•
Bright molding on rear edge of hood and fender		•	•		•	•
Wide rocker panel molding	•	•	•	•	•	•
Bright side window moldings (partial)	•			•		
Bright side window moldings (full)		•	•		•	•
Flush mounted door handles	•	•	•	•	•	•
Color-accented door handles		•	•		•	•
Full door-glass styling	•	•	•	•	•	•
SS emblem on fenders	•	•	•			
Z28 emblem on fenders				•	•	•
Side marker lights front and rear	•	•	•	•	•	•
Hub caps	•	•	•			
F70 x 14 bias belted ply white lettered tires	•	•	•			
F60 x 15 bias belted ply white lettered tires				•	•	•
14 x 7 wheels	•	•	•			
Special 15 x 7 wheels with bright wheel nuts				•	•	•
Bright rear window molding	•	•	•	•	•	•
Black rear panel*	•	•	•			
Air spoiler on rear deck				•	•	•
Z28 emblem on rear deck spoiler				•	•	•
Wide Rally Stripes on hood and rear deck				•	•	•
Bright-accented taillights		•	•		•	•
Bright-accented back-up lights		•	•		•	•
Bright dual exhaust outlets	•	•	•	•	•	•

*396-cu.-in. engine equipped models only. **Optional at extra cost.

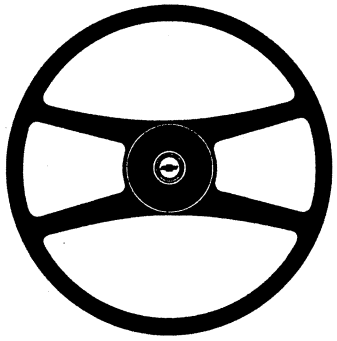
Camaro Interior Features	Camaro	Special Interior Group RPO Z23*	Custom Interior RPO Z87*
Black steering column and wheel with Camaro nameplate	•	•	•
Special wood-grain steering wheel accents		•	•
Wood-grain accents on instrument panel		•	•
Bright instrument cluster outline molding	•	•	•
Black-accented instrument panel control knobs	•	•	•
Function symbol on light switch, cigarette lighter and radio knobs	•	•	•
Bright Astro Ventilation control knobs	•	•	•
Speedometer, odometer and fuel gauge	•	•	•
Oil pressure, temperature, and generator warning lights	•	•	•
Parking brake and brake system warning light	•	•	•
Automatic ignition key alarm	•	•	•
Illuminated heater control panel	•	•	•
Black-accented turn signal and shift lever knobs	•	•	•
Padded glare-resistant instrument panel and sun visors	•	•	•
Four-way hazard warning flasher control	•	•	•
Instrument panel nameplate	•	•	•
Cigarette lighter	•	•	•
Glove compartment light		•	•
Glove compartment lock	•	•	•

*Optional at extra cost





Custom Steering Wheel (RPO NK2)



Sport Steering Wheel (RPO NK4)

Revised January, 1971

Camaro Interior Features	Camaro	Special Interior Group RPO Z23*	Custom Interior RPO Z87*
All-vinyl bucket seat interior	•	•	
Deluxe luxury cloth and vinyl bucket seat trim			•
Molded foam Strato-bucket front seats	•	•	•
Dual-cushion rear seat with full-width backrest	•	•	•
Padded door armrests	•	•	•
Astro Ventilation system	•	•	•
Wide day-night rearview mirror bonded to windshield	•	•	•
Color-keyed deep-twist carpet floor covering	•	•	•
Scuff-resistant plastic cowl side panels	•	•	•
Recessed pull-type door handles	•	•	•
Clear window control handles	•	•	•
Center dome light with bright bezel	•	•	•
Automatic light switches for both doors	•	•	•
Built-in rear armrests	•	•	•
Anti-theft forward-mounted door lock buttons	•	•	•
Luggage compartment floor mat			•
Steering column ignition switch and lock	•	•	•
Perforated vinyl-coated headlining	•	•	•
Suspended accelerator pedal	•	•	•
Foot-operated parking brake	•	•	•
Convenient T-handle parking brake release	•	•	•
Seat and shoulder belt anchor covers	•	•	•
Black seat adjustment handles	•	•	•
Folding seat back latches	•	•	•
Full-molded hood insulation			•
Special hood and body insulation			•
Simulated wood grain accents on door panels			•

*Optional at extra cost

Exterior Dimensions	Sport Coupe
Wheelbase	108.0
Length (overall)	188.0
Width (overall)	74.4
Height (loaded)	50.5
Front Tread	61.3
Rear Tread	60.0

Interior Roominess	
Head room—front	37.4
Head room—rear	36.1
Leg room—front	43.8
Leg room—rear	29.6
Hip room—front	56.7
Hip room—rear	47.3
Shoulder room—front	56.7
Shoulder room—rear	54.4
Front entrance height	29.6

Luggage Compartment	
Maximum opening width	40.5
Loading height	27.8
Interior length (max.)	65.8
Interior width (max.)	42.6
Interior height (max.)	17.7
Usable luggage space (cu. ft.)	6.4

Glass Area	Sport Coupe
Windshield glass area (sq. in.)	1137.6
Rear window glass area (sq. in.)	1099.2
Total glass area (sq. in.)	3326.2

Tire Size & Steering Specifications	
Standard tire size	E78 x 14*
Turning circle—curb-to-curb (ft.)	38.9
Turning circle—wall-to-wall (ft.)	41.0
Steering ratio—std. (overall)	33:1**
Steering ratio—power (overall)	15:1

Fuel Capacity & Weight	
Rated fuel tank capacity (approximate gallons)	18
Curb weight—Six (lbs.)	3186
Curb weight—V8 (lbs.)	3308
Shipping weight—Six (lbs.)	3094
Shipping weight—V8 (lbs.)	3216

*Camaro SS equipped with F70 x 14 bias belted ply white lettered wide-oval tires. Z28 option includes F60 x 15 bias belted ply white-lettered tires.

**Z28 - 22.5:1

1971 PRODUCTION FACTS & FIGURES

-1971- PRODUCTION FIGURES OF CAMARO

Total Camaros Built	114,630
Total Z28	4,862
Sport Coupes with 6 cyl	11,178
Sport Coupes with 8 cyl	103,452
Super Sport	8,377
Rally Sport	18,404
Automatics	90,987
3-Speeds	13,042
4-Speed wide range (M-20)	7,603
4-Speed close range (M-21)	1,721

BODY PAINT COLORS AVAILABLE

Antique White	code 11
Nevada Silver	code 13
Tuxedo Black	code 19
Ascot Blue	code 24
Mulsanne Blue	code 26
Cottonwood Green	code 42
Lime Green	code 43
Antique Green	code 49
Sunflower Yellow	code 52
Placer Gold	code 53
Sandalwood	code 61
Burnt Orange	code 62
Classic Copper	code 67
Cranberry Red	code 75
Rosewood Metallic	code 78

VINYL ROOF COVERS ..... **$89.55 cost**

BB—Black ..... GG—Green
AA—White ..... CC—Blue
FF—Brown

38,329 Camaros were built with a vinyl roof cover.

Black or **White** roof covers were available with any exterior color.

Blue vinyl available with: White—Silver—Black—Ascot Blue—Mulsanne Blue

Green vinyl available with: White—Black—Cottonwood Green—Lime Green—Antique Green.

Brown vinyl available with: White—Sandalwood—Burnt Orange—Classic Copper—Rosewood Metallic.

VEHICLE WEIGHTS

Sport Coupe 6 Cyl—shipping weight
Front—1778
Rear—1316
Total—3094

Sport Coupe V-8—shipping weight
Front—1882
Rear—1336
Total—3218

Shipping Weight is the weight of the basic vehicle with regular equipment, including grease, oil, and (3) gallons of gasoline, and engine coolant to capacity.

TRANSMISSION IDENTIFICATION

● Example: S1E01

Type Designation	Source Designation	Model Year 1971	Production° Month & Date
R3	S (Muncie)	1	E01D*

● R3	3-Speed	L-6	S - Muncie
● R4	3-Speed	V-8 engine	S - Muncie
WN	4-Speed	V-8 engine	R - Muncie
TH	Powerglide	L-6 engine	C - Cleveland
			E - Mc Kinnon Ind.
TJ	Powerglide	V-8 engine	C - Cleveland
			E - Mc Kinnon Ind.
HW	Turbo Hydra-Matic	V-8 engine	B - Cleveland
			Y - Toledo
CY	Turbo Hydra-Matic	V-8 engine	– - Ypsilanti

Location:

● 3-Speed ..... Stamped on left side just below cover.

● 4-Speed ..... Stamped on the right side of the case at adapter.

Powerglide, Torque Drive, Turbo Hydra-Matic (Chevrolet) ..... Stamped on right hand side of pan.

Turbo Hydra-Matic ..... Nameplate tag on right hand side of case.

o-Month: E denotes May; (see below) 01 denotes 1st day
Alpha Characters used in identifying the Calendar month

A - January	D - April	K - July	R - October
B - February	E - May	M - August	S - November
C - March	H - June	P - September	T - December

*-The letter "D" or "N" following the date numberals
● indicates day or night shift, on automatic only.

1971 CAMARO ● REVISED JANUARY 1971

NOTABLE FACTS

RPO-AN6, a Seat Back Adjuster, became available for the first time in 1971. It could only be used on the driver's side. Cost was $19.00. It had only two adjustable positions.

Less than 7 1/2% of ALL Camaro production came factory equipped with tilt steering.

The vehicle identification plate is located under the driver's side corner of hood. Norwood Z28's will be stamped as such. Z28.19 denotes black hood and deck striping. Z28.10 is white stripes.

Two types of rear spoilers are correct in the '71 models. The low-styled, one-piece spoiler was standard RPO-D80. In April of '71, a taller 3-piece spoiler, often referred to as the duck-tail, became available. It was temporarily coded COPO 9796.

A custom black steering wheel, RPO-NK2, was fitted into 621 Camaros at the factory. These could not be ordered with comfort tilt steering.

WHITE BOOK ORDER FORM

WHITE BOOK ORDER FORM

The Genuine

Camaro White Book™

1967-1993

Published by
Michael Bruce Associates, Inc.
Michael Antonick, President
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CONTENTS

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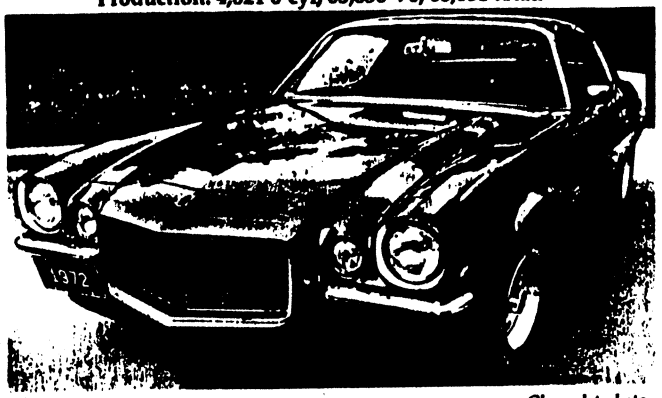
1972 CAMARO

Production: 4,821 6-cyl, 63,830 V8, 68,651 total.



1972 Camaro RS SS Sport Coupe *Chevrolet photo*

1972 NUMBERS

Vehicle Identification Example: 1Q87H2N100001

- Second digit is model level: Q=Camaro (all models)
- Fifth digit is engine code: D=250ci F=307ci H=350ci,tb K=350ci,ss T=350ci,z U=396ci
- Sixth digit is model year: 2=1972
- Seventh digit is N for Norwood assembly.
- Last six digits increased one with each car built at Norwood.

Dimensions: Length: 188.0 inches Height: 50.5 inches
Width: 74.4 inches Wheelbase: 108.0 inches

Suffix:

CAY: 307ci, ce, mt	CKA: 350ci, mt	CMB: 350ci, at, ce
CAZ: 307ci, at, ce, pg	CKB: 350ci, at	CMH: 350ci, ce, mt
CBA: 250ci, ce, mt	CKD: 350ci, at	CRD: 350ci, ar, at
CBG: 250ci, mt	CKG: 307ci, mt	CRG: 350ci, ar, mt
CBJ: 250ci, pg	CKH: 307ci, pg	CRZ: 396ci, ar
CDA: 350ci, ce, mt	CKK: 350ci, mt	CSD: 250ci, ce, pg
CDB: 350ci, at, ce	CKS: 350ci, mt, z	CSZ: 396ci, ar, at
CDD: 350ci, at, ce	CKT: 350ci, at, z	CTA: 396ci, ar, mt
CDG: 350ci, ce, mt	CLA: 396ci, mt	CTB: 396ci, ar, at
CDL: 250ci, ar, pg	CLB: 396ci, at	CTK: 307ci, at
CDM: 250ci, ar, mt	CMA: 307ci, at, ce	CTL: 350ci, at

Abbreviations: at=Turbo Hydra-Matic automatic transmission, ar=air injection reactor, ce=California emission controls, tb=two barrel carburetor, mt=manual transmission, pg=Powerglide automatic transmission, ss=super sport, z=RPO Z28 special performance package.

1972 FACTS

- 1972 appearance differed little from 1971. Grilles in non-Rally Sport models did have a coarser grill mesh and vinyl tops had a "wet" look.
- Engine choices didn't change from the previous year, but power ratings dropped in four of six engines due to emission and tuning requirements.
- Prices dropped in December 1971, due to repeal of the 7% auto excise tax.
- 1972 Camaros were the last to offer "big block" engines. Just 930 were sold. The engine wasn't certified for sale in California.
- Inner door panels were restyled to include map pockets and coin tray.

1972 FACTS *cont...*

- Camaro production was reduced to 68,651 due to a 117-day strike at the Norwood, Ohio, assembly plant, the only facility building 1972 Camaros. When the strike ended, 1,100 partially assembled 1972 models had to be scrapped because it was too costly to bring them into compliance with the more stringent 1973 bumper and emission requirements.
- 1972 horsepower ratings were released at "net" ratings, the power actually delivered to the rear wheels after accessory and driveline losses.
- A three-point combination seat and shoulder belt harness appeared in 1972 Camaros to replace the earlier separate lap and shoulder belt combinations. The change was phased-in during the model year.
- New shifter mechanisms for 1972 models with 4-speed manual transmissions featured a push-down reverse lockout.
- Spoilers were no longer a standard part of the RPO Z28 special performance package in 1972. The smaller style rear spoiler was no longer available in any option package. The larger, three-piece rear style was included in the RPO D80 spoiler option which also included a front valance spoiler. In 1972, RPO D80 could be ordered with any model, including RPO Z28.

1972 FACTORY OPTIONS

RPO	Description	Qty	Retail
12387	Camaro Sport Coupe, 6-cylinder	4,821	$2,729.70
12487	Camaro Sport Coupe, 8-cylinder	63,830	2,819.70
AK1	Belts, custom deluxe	8,475	14.50
AN6	Adjustable Seat Back, driver side	2,087	18.00
A01	Soft Ray Tinted Glass, all windows	44,155	39.00
B37	Floor Mats, color-keyed front and rear	15,725	12.00
B93	Guards, door edge	21,452	6.00
C08	Vinyl Roof Cover	23,918	87.00
C24	Windshield Wipers, hide-a-way	21,587	21.00
C50	Defroster, rear window	7,018	31.00
C60	Air Conditioning	31,738	397.00
D34	Mirror, visor vanity	3,931	3.00
D35	Mirror, left-hand remote control	28,965	15.00
D55	Console	49,845	57.00
D80	Spoilers, front and rear	5,954	77.00
F41	Suspension, special purpose front and rear	7,133	30.00
G80	Positraction, rear axle	7,643	45.00
J50	Power Brakes	29,271	46.00
LS3	Engine, 396ci, 240hp Turbo-Jet V8 (SS)	970	96.00
L65	Engine, 350ci, 165hp Turbo-Fire V8	27,009	26.00
M20	Transmission, 4-speed wide range	4,127	200.00
M21	Transmission, 4-speed close ratio	942	200.00
M22	Transmission, 4-speed close ratio heavy-duty	767	231.00
M35	Transmission, Powerglide automatic	4,462	174.00
M40	Transmission, Turbo Hydra-Matic automatic	7,302	210.00
NK4	Steering Wheel, sport	5,758	15.00
N33	Tilt Steering Column	3,706	44.00
N40	Power Steering	59,854	130.00
PL3	Tires, E78x14 belted white stripe	28,384	28.00
PL4	Tires, F70x14 belted white letter	16,342	82.85
PY4	Tires, F70x14 belted white stripe	16,581	69.85
P01	Wheel Covers, bright metal	27,708	26.00
P02	Wheel Covers, custom	824	82.00
T60	Battery, heavy duty	3,448	15.00
U14	Special Instrumentation	8,608	82.00
U35	Clock	7,403	16.00

1972 FACTORY OPTIONS *cont...*

RPO	Description	Qty	Retail
U63	Radio, AM pushbutton	54,271	$65.00
U69	Radio, AM-FM pushbutton	10,404	135.00
U80	Speaker, rear seat	15,889	15.00
VF3	Bumpers, deluxe front and rear	2,449	36.00
V01	Radiator, heavy duty	3,057	14.00
YD1	Axle, trailering ratio	165	12.00
YF5	Emission Test, required for California	8,124	15.00
ZJ7	Rally Wheels	27,804	44.00
ZJ9	Auxiliary Lighting	5,309	17.50
ZQ9	Axle, performance ratio	652	12.00
Z21	Style Trim Group	22,477	56.00
Z22	Rally Sport Package	11,364	118.00
Z23	Interior Accent Group	18,064	21.00
Z27	Super Sport Package	6,562	306.35
Z28	Special Performance Package	2,575	769.15
Z87	Custom Interior	6,462	113.00

• Prices shown were lower than introduction prices due to the repeal of federal excise tax. Prices included factory and dealer delivery and handling. They did not include transportation, or state and local taxes.
• Chevrolet records also indicate the following sales: RPO A02 (tinted windshield only) 533 sold, RPO PM7 (whitewall tires) 2,575 sets sold.
• Prices for Super Sport and Z28 models sold in California were $26.00 less than other states because base V8s were not available in California and the L65 engine ($26.00) was the minimum requirement for V8 Camaros.
• The base 6-cylinder engine was 250ci, 110hp. The base V8 engine was 307ci, 130hp.
• RPO AK1 (belts) included four seat and two front shoulder color-keyed custom deluxe belts with brushed metal buckles.
• RPO AN6 (adjustable seat back) adjustment limited to two positions.
• RPO C24 (hide-a-way wipers) included with Rally Sport or Super Sport.
• RPO C60 (air conditioning) included heavy-duty radiator and 61-amp generator, V8 only, not available with Z28.
• RPO D35 (left-hand remote mirror) included with SS and Z28.
• RPO D55 (console) included floor-mount shifter (when automatic was ordered), rear seat courtesy light, compartment, and ashtray.
• RPO D80 (spoiler) included front air dam and three-piece rear spoiler.
• RPO F41 (special suspension) included special front and rear stabilizers and shocks. V8 only, included with 240hp SS and RPO Z28.
• RPO G80 (Positraction) included with Z28.
• RPO J50 (power brakes) included with SS or RPO Z28.
• RPO M20 (4-speed) available with optional engines only.
• RPO M21 (4-speed) available with 240hp SS or RPO Z28 only.
• RPO M22 (heavy-duty 4-speed) available with RPO Z28 only.
• RPO M35 (Powerglide automatic) 6-cyl price shown; $185.00 with base V8.
• RPO M40 (Turbo Hydra-Matic automatic) available V8 only, $231.00 with 240hp SS, $297.00 with RPO Z28.
• RPO PL4 (tires) included 14x7 wheels, V8 only, included with SS.
• RPO PY4 (tires) included 14x7 wheels, V8 only, no charge with SS.
• RPO U14 (special instruments) included tach, ammeter, and temperature gauges plus clock, all in main panel, V8 only, standard with Z28.
• RPO VF3 (deluxe bumpers) included resilient black front and rear bumper cushions and rear bumper guards. Cost $24.00 with RPO Z28.
• RPO V01 (heavy-duty radiator) included with air conditioning or Z28.
• RPO YD1 (trailering axle) available with 130hp or 240hp and M40.
• RPO ZJ7 (rally wheels) included 14x7 wheels, hubcaps, and trim rings.

1972 FACTORY OPTIONS *cont...*

• RPO Z22 (Rally Sport) included black grille with rubber-tipped vertical center bar and resilient body-color grille frame, independent left and right front bumpers, parking lamps on grille, hide-a-way wipers, bright roof drip, window, hood panel; Rally Sport emblem on steering wheel, Rally Sport nameplates on front fenders. Rally Sport emblems were deleted with Camaro SS or Z28 packages.
• RPO Z23 (interior accent group) included glovebox light, additional instrument panel lighting, wood-grain accents on instrument panel cluster and steering wheel. RPO Z23 was included with RPO Z87.
• RPO Z27 (super sport) included 350ci, 200hp Turbo-Fire V8 with bright accents, heavy-duty engine mounts and starter, dual exhausts, power brakes, left-hand remote mirror, special trim and hood insulation, F70x14 belted white letter tires, 14x7 wheels, black grille, hide-a-way wipers, and SS emblems on steering wheel and fender.
• RPO Z28 (special performance package) included 350ci, 255hp V8 with finned aluminum rocker covers and bright accents, left remote and right manual sport mirrors, special instruments, power brakes, 3.73:1 Positraction, dual exhausts, black grille, Z28 emblems on grille and front fenders, rear bumper guards, sport suspension, heavy-duty engine mounts, starter, radiator and springs, 15x7 wheels with bright lug nuts, special center caps and trim rings, F60x15 belted white letter tires, Z28 rear panel decal, and special paint stripes on hood and rear deck.
• RPO Z87 (custom interior) included deluxe seat and sidewall trim, glovebox light and additional instrument cluster lighting, wood-grain accents on instrument cluster, steering wheel and door trim panels, trunk mat plus special engine compartment, hood and interior insulation.

1972 COLORS

Code	Exterior	Vinyl Top	Stripes	Interiors
11	Antique White	B-Bk-Cv-G-P-T-W	Bk	B-Bk-Cv-G-T-W
14	Pewter Silver	Bk-G-P-W	Bk-W	Bk-G-T-W
24	Ascot Blue	B-Bk-W	Bk-W	B-Bk-W
26	Mulsanne Blue	Bk-W	Bk-W	B-Bk-W
36	Spring Green	Bk-W	Bk-W	Bk-W
43	Gulf Green	Bk-G-W	Bk-W	Bk-Cv-G-W
48	Sequoia Green	Bk-Cv-G-P-W	Bk-W	Bk-Cv-G-T-W
50	Covert Tan	Bk-Cv-W	Bk-W	Bk-Cv-G-T-W
53	Placer Gold	Bk-Cv-W	Bk-W	Bk-Cv-W
56	CreamYellow	Bk-Cv-W	Bk-W	Bk-Cv-T-W
57	Golden Brown	Bk-Cv-W	Bk-W	Bk-Cv-T-W
63	Mohave Gold	Bk-Cv-T-W	Bk-W	Bk-Cv-T-W
65	Flame Orange	Bk-Cv-W	Bk-W	Bk-W
68	Midnight Bronze	Bk-Cv-T-W	W	Bk-Cv-T-W
75	Cranberry Red	Bk-W	Bk-W	Bk-W

• Vinyl top, stripe and interior combinations shown were recommended by Chevrolet as most attractive, but other combinations were permitted.
• Stripes for Z28 models were available in either black or white as shown, except for Antique White exteriors which could only have black stripes, and Midnight Bronze which had only white stripes.
• Standard vinyl interiors were available in B, Bk, Cv, T, and W. Custom interiors (cloth) were available in Bk, Bbk, Cvbk, and Gbk.

Interior Codes: 775=Bk/std, 776=B/std, 777=G/std, 778=T/std, 779=Cv/std, 780=W/std, 785=Bk/cc, 786=Bbk/cc, 787=Gbk/cc, 788=Cvbk/cc.

Abbreviations: B=Blue, Bk=Black, Bbk=Blue with black trim, cc=custom cloth, Cv=Covert (light tan), Cvbk=Covert with black trim, G=Green, Gbk=Green with black trim, P=Pewter (silver), Std=standard, T=Tan, W=White.

CAMARO

1971 MODELS WITH STANDARD EQUIPMENT (108" Wheelbase)

Model Number and Description	Mfr's Sgt'd Retail Price★	Destination Group No.	Destination Charge	Total
→6-Cylinder Model				
145-hp Turbo-Thrift 250 Engine				
12387 Sport Coupe—4-Passenger	$2921.00	11	.....	.....
→8-Cylinder Model				
200-hp Turbo-Fire 307 Engine				
12487 Sport Coupe—4-Passenger	3016.00	11	.....	.....

★Manufacturer's Suggested Retail Prices do not include state and local taxes, license fees, options or accessories.

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Mfr's Suggested Retail Delivered Price◈
MODEL OPTIONS		
Camaro SS: V8 model with 4-speed or Turbo Hydra-matic transmission only. Includes 270-hp Turbo-Fire 350 engine with bright accents; dual exhausts; power brakes; LH remote-control sport mirror; special ornamentation; special hood insulation; F70–14 bias belted ply white lettered tires; 14" x 7" wheels; black-finished grille; Hide-A-Way windshield wipers; SS emblems on steering wheel and fenders	Z27	$313.90
THE FOLLOWING ADDITIONAL HORSEPOWER ENGINE MAY BE ORDERED WHEN CAMARO SS (OPTION Z27) IS SPECIFIED ON ORDER:		
300-hp Turbo-Jet 396 engine. Also includes sport suspension and black-finished rear panel	LS3	99.05
Custom Interior: Includes deluxe seat and sidewall trim; cloth seats; glove compartment light and additional instrument cluster lighting; wood-grained accents on instrument cluster, steering wheel and door trim panels; luggage compartment mat plus special engine compartment, hood and interior insulation	Z87	115.90
Interior Accent Group: Included in custom interior option. Includes additional instrument cluster lighting, wood-grained accents on instrument cluster and steering wheel	Z23	21.10
→**Rally Sport:** Includes special black-finished grille with special rubber tipped vertical center bar and resilient body color grille frame; independent LH and RH front bumpers replacing full-width bumper; license plate bracket mounted below RH bumper; parking lights with bright accents mounted on grille panel; Hide-A-Way windshield wipers; bright roof drip, window and hood panel moldings; RS emblem on steering wheel; Rally Sport front fender nameplates; bright accented taillights and back-up lights. Rally Sport emblems are deleted when Camaro SS or special performance package is ordered	Z22	179.05
→**Style Trim:** Included in Rally Sport option. Includes bright roof drip, window and hood panel moldings plus bright accented parking lights, taillights and back-up lights	Z21	57.95
Special Performance Package: V8 model with 4-speed or Turbo Hydra-matic transmission only. Not available when air conditioning, wheel covers or rally wheels are ordered. Includes special 330-hp Turbo-Fire 350 engine with bright accents; LH remote-control sport mirror; special instrumentation; power brakes; 3.73 ratio Positraction rear axle; dual exhausts; black-finished grille; Z28 emblems on front fenders; rear bumper guards; sport suspension; HD radiator; front and rear springs; 15" x 7" wheels with bright lug nuts, special center caps and trim rings; F60–15/B bias belted ply white lettered tires; rear deck spoiler with Z28 decal; special paint stripes on hood and rear deck. *Choice of either black or white stripes except when vinyl roof cover, black or white painted roof is specified. See Striping Application Chart*	Z28	786.75

* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.

◈ State and local taxes not included.

→Indicates Change

CAMARO

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Mfr's Suggested Retail Delivered Price ◈
FEATURE GROUPS		
(Any item contained in a feature group may be ordered separately)		
APPEARANCE GUARD GROUP		
INCLUDES:		
(A) Guards, Door Edge	B93	$ 6.35
(B) Mats, Color-Keyed Floor: 2 Front, 2 Rear	B37	12.65
(C) Mirror, Visor Vanity	D34	3.20
For all models—Includes A, B & C	ZP5	22.20
OPERATING CONVENIENCE GROUP		
INCLUDES:		
(A) Clock, Electric: Included when special instrumentation or special performance package is ordered	U35	16.90
(B) Defroster, Rear Window: (Forced-Air)	C50	31.60
For Sport Coupe with special instrumentation or special performance package—Includes B	ZQ2	31.60
For Sport Coupe without special instrumentation or special performance package—Includes A & B	ZQ2	48.50
POWER TEAMS		
(See Power Teams Chart for availability and complete engine specifications)		
Engine: (Also see Camaro SS) *245-hp Turbo-Fire 350.* V8 model only	L65	26.35
Transmissions:		
Powerglide. Available only when standard engine is ordered		
6-cyl model	M35	179.55
V8 model	M35	190.10
Turbo Hydra-matic. V8 model only		
With standard, 245-hp or 270-hp Camaro SS engine	M40	216.50
With 300-hp Camaro SS engine	M40	237.60
With special performance package	M40	306.25
4-Speed Wide-Range. Available only when optional engine is ordered	M20	205.95
4-Speed Close-Ratio. Available only when 300-hp Camaro SS engine or special performance package is ordered	M21	205.95
Special 4-Speed Close-Ratio. Available only when special performance package is ordered	M22	237.60
Axle, Positraction Rear: Included when special performance package is ordered	G80	46.35
Axle Ratios:		
Performance. Available only when special performance package is ordered	ZQ9	12.65
Trailering. Available only when 200-hp or 245-hp engine and Turbo Hydra-matic transmission are ordered	YD1	12.65
POWER ASSISTS		
Brakes, Power: Included when Camaro SS or special performance package is ordered	J50	47.40
Steering, Power: Variable ratio	N40	115.90
OTHER OPTIONS		
Air Conditioning: *Four-Season.* V8 model only. Not available when special performance package is ordered. Includes 61-amp generator and HD radiator	C60	407.60
Battery, Heavy-Duty: 15-plate, 80 amp-hr	T60	15.80

* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with vehicle Terms of Sale Bulletin.

◈ State and local taxes not included.

CAMARO

OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Mfr's Suggested Retail Delivered Price◈
Belts, Custom Deluxe Seat and Shoulder: Includes brushed metal buckles and color-keyed belts. (Standard plastic buckles and belts are black)		
REPLACING STANDARD NUMBER OF BELTS;		
5 seat and 2 front shoulder	AK1	$15.30
SHOULDER BELTS—2 REAR;		
For use when Custom Deluxe Belts are ordered	AS4	26.35
Bumpers, Deluxe Front and Rear: Includes slender black resilient front and rear bumper cushions and rear bumper guards.		
Without special performance package	VF3	36.90
With special performance package	VF3	24.25
Console: Includes floor-mounted shift lever when automatic transmission is ordered rear seat courtesy light, compartment and ashtray	D55	59.00
Glass, Soft-Ray Tinted: All windows	A01	40.05
Instrumentation, Special: V8 model only. Included when special performance package is ordered. Includes tachometer, ammeter and temperature gauges plus electric clock mounted in instrument panel cluster and additional instrument cluster lighting	U14	84.30
Lighting, Auxiliary: Includes ashtray, courtesy, luggage compartment and underhood lights		
Without custom interior. Also includes glove compartment light	ZJ9	18.45
With custom interior	ZJ9	15.80
Mirror, Sport: LH remote-control. Included when Camaro SS or special performance package is ordered	D35	15.80
Paint, Exterior: Solid colors	...	N.C.
Radiator, Heavy-Duty: V8 model only. Included when air conditioning or special performance package is ordered	V01	14.75
Radio Equipment:		
Pushbutton. Includes concealed windshield antenna		
AM Radio	U63	66.40
AM/FM Radio	U69	139.05
Speaker, Rear Seat	U80	15.80
Roof Cover, Vinyl: Includes bright metal roof outline moldings		
Black	BB	89.55
Blue (Dark)	CC	89.55
Brown (Dark)	FF	89.55
Green (Dark)	GG	89.55
White	AA	89.55
Seat Back, Adjustable: 2 positions. Driver's seat only	AN6	19.00
Spoiler: Front and rear. Includes front valance spoiler, rear deck and rear side panel spoiler. Front spoiler shipped loose for dealer installation.		
Without special performance package	D80	79.00
With special performance package. Replaces rear deck spoiler only	D80	46.35
Steering Wheels:		
Comfortilt	N33	45.30
Custom. Black. Not available when comfortilt steering wheel is ordered	NK2	15.80
Sport (4-Spoke). Black	NK4	15.80
Suspension, Sport: V8 model with F70-14 tires only. Included when special performance package or 300-hp Camaro SS engine is ordered. Includes special front stabilizer, rear stabilizer and special front and rear shock absorbers	F41	30.85
Wheel Covers: Not available when special performance package is ordered		
Bright Metal	P01	26.35
Custom	P02	84.30
Wheels, Rally: Not available when E78-14 tires are specified on V8 models. Includes special 14" x 7" wheels, hub caps and trim rings	ZJ7	45.30
Windshield Wipers, Hide-A-Way: Included when Rally Sport or Camaro SS is ordered. Includes articulated left hand blade	C24	21.10

FACTORY INSTALLED REGULAR PRODUCTION TIRES

Replaces (5) E78-14/B Bias Belted Ply Blackwall (All Models without Special Performance Package)		
(5) E78-14/B Bias Belted Ply White Stripe. Not available when Camaro SS is ordered	PL3	28.15
(5) F70-14/B Bias Belted Ply White Stripe. V8 model only. Includes 14" x 7" wheels.		
Without Camaro SS	PY4	70.15
With Camaro SS	PY4	N.C.
(5) F70-14/B Bias Belted Ply White Lettered. V8 model only. Included when Camaro SS is ordered. Includes 14" x 7" wheels	PL4	83.60

* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with vehicle Terms of Sale Bulletin.

◈ State and local taxes not included.

CAMARO POWER TEAMS

ENGINE, TRANSMISSION AND REAR AXLE COMBINATIONS

ENGINES		TRANSMISSIONS	SHIFT LEVER LOCATION		REAR AXLE RATIOS★		
Option Number and Model Application	Description	Type (Std or Optional)	Without Console	With Optional Console	Std	Optional	
						Perf	Trailering
STANDARD ENGINES							
Standard Six-Cylinder on 12387 Model	145-hp Turbo-Thrift 250 6-Cylinder 250-cu-in displacement Single barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	3-Speed (Std)—ZW4	Floor With Boot	In Console	3.08	—	—
		Powerglide—M35	Column	In Console w/Floor Shift	3.08	—	—
Standard Eight-Cylinder on 12487 Model	200-hp Turbo-Fire 307 8-Cylinder 307-cu-in displacement 2-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	3-Speed (Std)—ZW4	Floor With Boot	In Console	3.08	—	—
		Powerglide—M35	Column	In Console w/Floor Shift	3.08	—	—
		Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73	—	3.42
OPTIONAL ENGINES							
Option L65 on 12487 Model	245-hp Turbo-Fire 350 8-Cylinder 350-cu-in displacement 2-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	2.73	—	3.42
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.08	—	—
Camaro SS Option Z27 on 12487 Model	270-hp Turbo-Fire 350 8-Cylinder 350-cu-in displacement 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Dual exhausts	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	3.08	—	—
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.42	—	—
Camaro SS Option Z27/LS3 on 12487 Model	300-hp Turbo-Jet 396 8-Cylinder 402-cu-in displacement High-lift camshaft 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Dual exhausts	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	3.42	—	—
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.42	—	—
		4-Speed Close-Ratio—M21	Floor With Boot	In Console	3.42	—	—
Option Z28 on 12487 Model	330-hp Turbo-Fire 350 8-Cylinder 350-cu-in displacement (Option Z28 Special Performance Package)	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	3.73	4.10	—
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.73	4.10	—
		4-Speed Close-Ratio—M21	Floor With Boot	In Console	3.73	4.10	—
		Special 4-Speed Close-Ratio—M22	Floor With Boot	In Console	3.73	4.10	—

★ All ratios available as Positraction *(3.73 and 4.10 available as Positraction only).*

CAMARO INTERIOR AND EXTERIOR SELECTION CHART

PLEASE NOTE: *The exterior and interior combinations for solid color paint shown in the chart below have been established as the combinations that would be attractive to the average customer. Orders for non-recommended solid color exterior and interior trim combinations may be submitted provided the original order carries a notation in the special instruction section. This notation should state that the color and trim selection has been verified and is definitely desired.*

This procedure does not apply to orders that specify a vinyl roof cover as combinations shown are the only combinations that have been approved.

VINYL ROOF	EXTERIOR COLOR AVAILABILITY	
BLACK	BB	All Exterior Colors.
BLUE (Dark)	CC	Black, Blue, Silver or White Exterior Colors only.
BROWN (Dark)	FF	Copper, Orange, Rosewood, Sandalwood or White Exterior Colors only.
GREEN (Dark)	GG	Black, Green or White Exterior Colors only.
WHITE	AA	All Exterior Colors.

		INTERIOR TRIM								
	Type of Seat	Black	Blue (Dark)	Jade (Dark)	Saddle (Dark)	Sandal-wood	Black/ Blue (Blue Accents)	Black/ Jade (Jade Accents)	Black/ Saddle (Saddle Accents)	Black/ White (Black Accents)
Sport Coupe With Standard Vinyl Interior	Strato-Bucket	775	776	778	779	777				
Sport Coupe With Cloth Custom Interior (Option Z87)	Strato-Bucket	785					786	787	792	789

EXTERIOR COLOR	CODE		INTERIOR TRIM								
SOLID	LOWER	UPPER									
Black, Tuxedo	19	19	X	X	X	X	X	X	X	X	X
Blue, Mulsanne	26	26	X	X			X	X			X
Blue, Ascot	24	24	X	X			X	X			X
Copper, Classic	67	67	X				X				X
Gold, Placer	53	53	X			X	X			X	X
Green, Lime	43	43	X		X	X	X		X	X	X
Green, Cottonwood	42	42	X		X		X		X		X
Green, Antique	49	49	X		X	X	X		X	X	X
Orange, Burnt	62	62	X				X				X
Red, Cranberry	75	75	X				X				X
Rosewood Metallic	78	78	X				X				X
Sandalwood	61	61	X		X	X	X		X	X	X
Silver, Nevada	13	13	X	X			X	X			X
White, Antique	11	11	X	X	X	X	X	X	X	X	X
Yellow, Sunflower	52	52	X		X	X	X		X	X	X

CAMARO

STRIPING COLOR APPLICATION CHART

The following striping colors are available on vehicles equipped with the Special Performance Package (Z28) option. Striping colors are automatically selected for compatibility to vinyl roof cover color applications. Vehicles ordered without a vinyl roof cover automatically receive black stripes on all exterior solid colors except Tuxedo Black. In the event white stripes are desired on vehicles ordered with a body color painted roof, in any color except black or white, white stripes may be specified by reflecting ordering code ZR8 in the special instruction area of the order form.

EXTERIOR COLOR			Painted Body Roof Color		Vinyl Roof Cover (Stripe colors automatically selected for compatibility)				
SOLID	CODE Lower	CODE Upper	Automatically Selected Stripe Color	Optional White Stripe Color* (Code ZR8)	Black Vinyl	White Vinyl	Blue Vinyl	Brown Vinyl	Green Vinyl
Black, Tuxedo	19	19	White		White	White	White		White
Blue, Mulsanne	26	26	Black	White	Black	White	Black		
Blue, Ascot	24	24	Black	White	Black	White	Black		
Copper, Classic	67	67	Black	White	Black	White		Black	
Gold, Placer	53	53	Black	White	Black	White			
Green, Lime	43	43	Black	White	Black	White			Black
Green, Cottonwood	42	42	Black	White	Black	White			Black
Green, Antique	49	49	Black	White	Black	White			Black
Orange, Burnt	62	62	Black	White	Black	White		Black	
Red, Cranberry	75	75	Black	White	Black	White			
Rosewood Metallic	78	78	Black	White	Black	White		Black	
Sandalwood	61	61	Black	White	Black	White		Black	
Silver, Nevada	13	13	Black	White	Black	White	Black		
White, Antique	11	11	Black		Black	Black	Black	Black	Black
Yellow, Sunflower	52	52	Black	White	Black	White			

*Available on body color roof (except black or white) only. Insert code ZR8 in special instruction area on order form.

Chapter 24

1971 Camaro SS

Production

8 cyl

2 dr sport coupe	103,452

V-8

2 dr coupe, L48 350 ci	6,844
2 dr coupe, LS3 396 ci	1,533
Total	8,377

Serial numbers

Description

124371L100001
12437 — Model number (12437-2 dr coupe)
1 — Last digit of model year (1971)
L — Assembly plant (L-Los Angeles, N-Norwood)
100001 — Consecutive sequence number

Location

On plate attached to driver's side of dash, visible through the windshield.

Engine and transmission suffix codes

CGK, CJG — 350 ci V-8 4 bbl 270 hp, manual
CGL, CJD — 350 ci V-8 4 bbl 270 hp, Turbo Hydra-matic automatic TH350
CLC — 402 ci V-8 4 bbl 300 hp, manual
CLD — 402 ci V-8 4 bbl 300 hp, Turbo Hydra-matic automatic

Carburetors

350 ci — 7041203
350 ci w/automatic — 7041202
402 ci — 7041201
402 ci w/automatic — 7041200

Distributors

350 ci — 1112044
350 ci w/automatic — 1112045
402 ci — 1112057

Exterior color codes

Antique White	11	Sunflower	52
Nevada Silver	13	Placer Gold	53
Tuxedo Black	19	Sandalwood	61
Ascot Blue	24	Burnt Orange	62
Mulsanne Blue	26	Classic Copper	67
Cottonwood Green	42	Cranberry Red	75
Lime Green	43	Rosewood	78
Antique Green	49		

Interior trim codes

Color	Std vinyl	Custom cloth
Black	775	785
Blue	776	786
Dark Jade	778	787
Dark Saddle	779	792
Sandalwood	777	—
Black/White	—	789

Vinyl top color codes

White	AA
Black	BB
Blue	CC
Brown	FF
Green	GG

Options

12487 Sport coupe $2,848.00

Option number	Description	Quantity	Retail price
AK1	Custom deluxe belts	16,922	$ 15.30
AN6	2 position adjustable seatback	—	19.00
AS4	Rear shoulder belts	99	26.35
A01	Tinted glass (all windows)	67,250	40.05
B37	Color-keyed floor mats	22,576	6.35
B93	Door edge guards	33,124	6.35
C08	Vinyl roof	38,329	89.55
C50	Forced air rear window defroster	8,794	31.60
C60	AC	42,537	402.35
D34	Vanity Visor mirror	5,522	3.20
D35	Remote control LH mirror (incl w/Z27)	40,684	15.80
D55	Console	72,656	59.00
D80	Front & rear spoiler	6,489	79.00
F41	Special performance suspension (incl w/300 hp Z27)	10,975	30.55
G80	Positraction axle	11,753	44.25
J50	Power brakes (incl w/Z27)	41,630	47.30
LS3	300 hp Turbo-Jet 396 ci V-8 engine	1,533	99.05
M20	4 speed wide-ratio transmission	7,603	205.95
M21	4 speed close-ratio transmission	1,721	205.95
M40	Turbo Hydra-matic automatic transmission	77,541	306.25
NK2	Custom steering wheel (black; NA w/N33)	621	15.80
NK4	Sport steering wheel (4 spoke; black)	6,216	15.80
N33	Comfortilt steering wheel	8,374	45.30
N40	Variable-ratio power steering	93,163	110.60

PY4	F70-14B bias-belted-ply white stripe tries	24,579	NC
P01	Brightmetal wheel covers	55,363	26.35
P02	Special wheel covers	1,809	84.30
T60	HD battery	5,168	15.80
U14	Special instrumentation	12,174	84.30
U35	Electric clock (incl w/U14)	10,338	16.90
U63	Push-button AM radio	95,776	66.40
U69	Push-button AM/FM radio	13,310	139.05
U80	Rear seat speaker	20,018	15.80
VF3	Deluxe front & rear bumpers	1,309	36.90
V01	HD radiator	1,594	14.75
ZJ7	Rally wheels (incl special 14x7 in. wheels, hubcaps & trim rings)	34,604	45.30
ZJ9	Auxiliary lighting	6,323	18.45
Z21	Style trim	38,161	57.95
Z22	Rally sport equipment	18,404	179.05
Z27	Camaro SS equipment	8,377	313.90
Z28	Special Performance Package	4,862	786.75
Z87	Custom interior	11,643	115.90

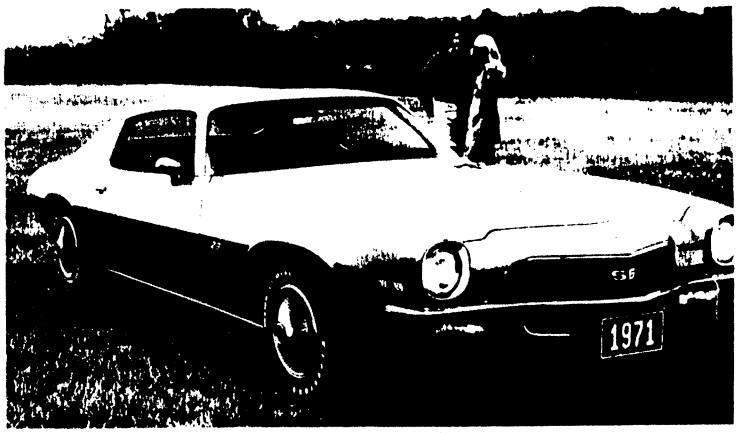
Facts

Detail changes characterized the 1972 Camaro. Some of these were new emblems, paint colors, wheel covers and a new high-back bucket seat with seatback adjustment. The D80 Spoiler Package included front and rear spoilers and was available on the Super Sport.

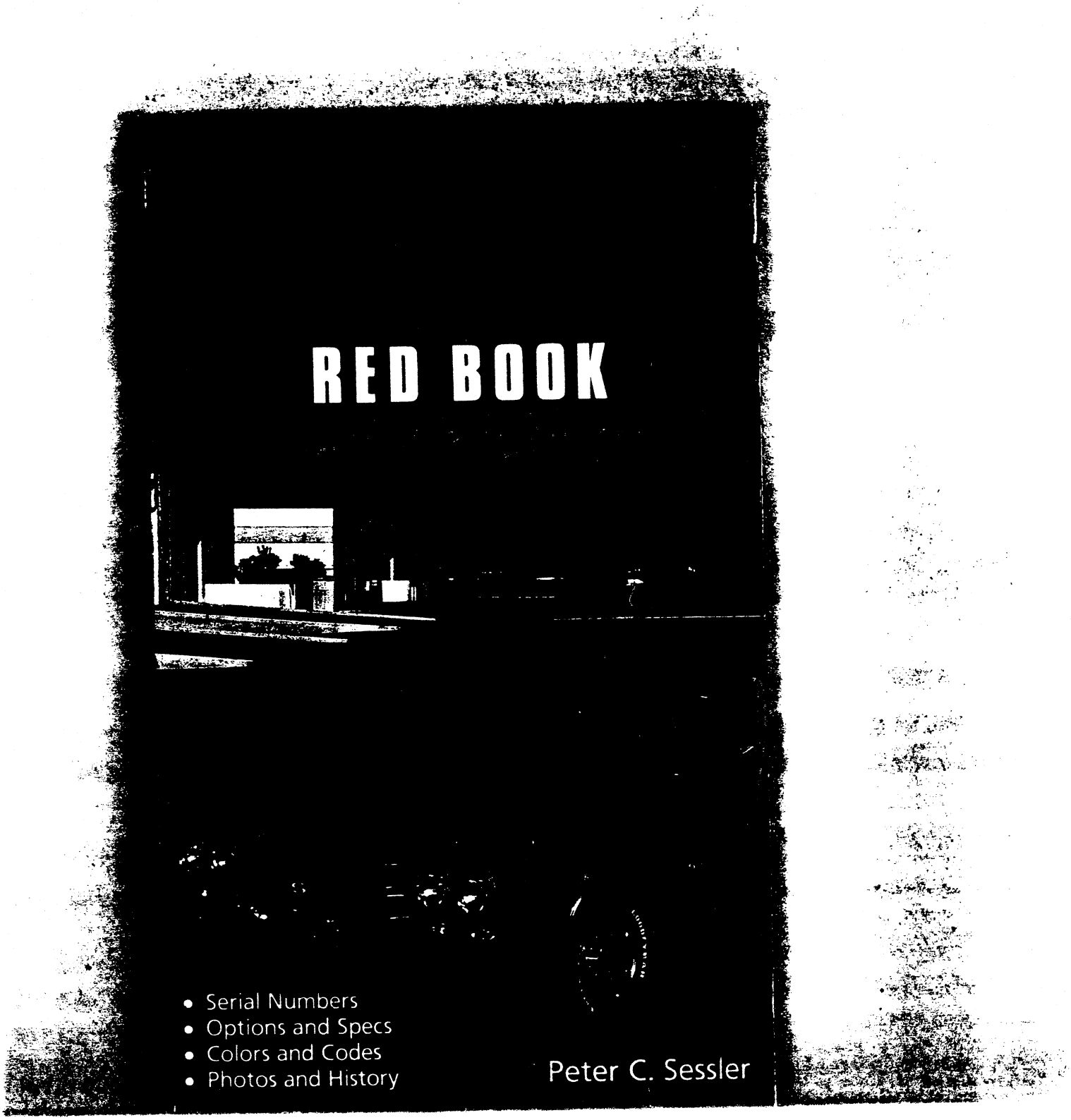
The Z27 Super Sport option was basically the same. It included a blacked-out grille with SS emblem, SS emblems with engine size numerals on the front fenders, dual sport mirrors, dual bright exhaust tips, the F41 Suspension Package, power front disc brakes, 14x7 in. steel wheels with F70x14 RWL tires, the hideaway wipers and an SS emblem on the steering wheel. All 396 ci powered Camaros also got the black-painted rear deck lid.

Engine availability was limited to just two, the 270 hp (210 hp net) 350 ci small-block or the 300 hp (260 hp net) 396 ci (402 ci actual displacement) big-block. As before, either engine was available with a four-speed manual or the Turbo Hydra-matic automatic transmission. Both engines still came with chrome air cleaners and chrome valve covers (finned aluminum with the 350 ci). The lower horsepower ratings were due to tuning and a reduced compression ratio as well as measurements produced by the more realistic SAE net method.

The RS Package was again available in conjunction with the Super Sport.



The 1971 Camaro SS Coupe.


RED BOOK
• Serial Numbers
• Options and Specs
• Colors and Codes
• Photos and History
Peter C. Sessler