AMA–40A
1970

AMA Specifications—Passenger Car

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER Chevrolet Motor Division General Motors Corporation	CAR NAME CHEVELLE	
MAILING ADDRESS Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR 1970	ISSUED 10-15-69 REVISED (•)

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.

TABLE OF CONTENTS

BODY – TYPES AND STYLE NAMES –

Body type, style names; use manufacturer's code for series & body style.

	Turbo-Jet 396 V8-402 Cu. In. 375 HP	Turbo-Jet 454 V8-454 Cu. In. 450 HP
MALIBU		
2-Door Sport Coupe, 5-Passenger	13637	
2-Door Convertible, 5-Passenger	13667	
EL CAMINO		
2-Door Sedan Pick-up, 3-Passenger	13680	

AMA Specifications—Passenger Car

Page 1

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

CAR AND BODY DIMENSIONS

See Pages 25, 26 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	Convertible	Sedan Pick-up
WIDTH				
Track – Front	W101	60.0		
Track – Rear	W102	59.8		
Maximum overall car width	W103	75.4		
Body width at No. 2 pillar	W117	--		
LENGTH				
Body "O" to front of dash	L 30	0.0		
Wheelbase	L101	112.0		116.0
Overall car length	L103	197.2		206.5
Overhang – front	L104	37.5		
Overhang – rear	L105	47.7		53.0
Body upper structure length	L123	96.8	94.7	--
Body "O" line to ℄ of rear wheel	L127	95.5		99.5
Body "O" line to w/s cowl point	L130	10.4		--
HEIGHT				
Passenger Distribution (front & rear)		2-3		2-Front
Trunk/Cargo load (lbs.)		200		800
Overall height	H101	52.6	52.9	54.4
Cowl height	H114	38.1		39.1
Deck height	H138			
Rocker panel – front: To ground / From front wheel ℄	H112	8.5		9.4
Rocker panel – rear: To ground / From rear wheel ℄	H111	7.2		8.5
Windshield slope angle	H122	53.0		
GROUND CLEARANCE				
Bumper to ground – front	H102	14.3		15.0
Bumper to ground – rear	H104	15.1		11.9
Angle of approach	H106	25.5		26.0
Angle of departure	H107	21.0		16.5
Ramp breakover angle	H147	13.6		15.0
Min. running clearance (Specify)	H156	4.6		5.7

(a) - 3-seat wagon

(b) - Exhaust system to ground

AMA Specifications—Passenger Car

Page 2

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (e)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	2-Door Sport Coupe	Convertible	Sedan Pick-up
FRONT COMPARTMENT				
Effective head room	H61	37.5	38.3	38.2
Max. eff. leg room – accelerator	L34	42.8		42.5
H Point to Heel point	H30	8.1		
H Point travel	L17	4.8		
Shoulder room	W 3	58.2		
Hip room	W 5	59.7		59.6
Upper body opening to ground	H50	48.5	48.6	49.7
REAR COMPARTMENT				
H Point couple distance	L50	30.6		
Effective head room	H63	36.3	36.9	
Min. effective leg room	L51	32.3		
H Point to Heel point	H31	10.1		
Min. knee room	L48	0.7		
Rear Compartment room	L 3	23.7		
Shoulder room	W 4	56.9	47.9	
Hip room	W 6	52.9	50.4	
Upper body opening to ground	H51			
LUGGAGE COMPARTMENT				
Usable luggage capacity	V 1	14.6	8.5	
Liftover height	H195	25.9		
Position of spare tire storage		Horizontal: right side of trunk		Behind passenger sea
Method of holding lid open		Boxed hinges with torsion rod		- - -
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			

AMA Specifications—Passenger Car

Page 3

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (e)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO** (Std. first) (Indicate A/C ratio)	
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		Standard	Special
Sport Coupe Convertible Pick-up	Turbo-Jet 396 V8 (402 CID) Z25/L78	One; 4-bbl.	11.0:1	375 @ 5600	415 @ 3600	4-Spd. manual (2.52:1 low) 4-Spd. manual (2.20:1 low) H. D. 4-Spd. manual (2.20:1 low) 3-Spd. automatic	3.55	4.10
	Turbo-Jet 454 V8 Z25/LS6	One; 4-bbl.	11.25:1	450 @ 5600	500 @ 3600	H. D. 4-Spd. manual (2.20:1 low) 3-Spd. automatic	3.31	4.10

* Air Conditioning not available

AMA Specifications—Passenger Car

Page 4

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ENGINE – GENERAL

Type, no. cyls., valve arr.		90° V8 OHV	
Bore and stroke (nominal)		4.126 x 3.76	4.251 x 4.00
Piston displacement, cu. in.		402	454
Bore spacing (℄ to ℄)		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)		11.00:1	11.25:1
Cylinder Head Material		Cast iron	
Cylinder Block Material		Cast iron	
Cyl. Sleeve-Wet, dry, none		None	
Number of mtg. points	Front	Two	
	Rear	One	
Engine installation angle		4° 46'	
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		54.5	57.8
Publishing max. bhp* @ eng. RPM		375 @ 5600	450 @ 5600
Publishing max. torque * (lb. ft. @ RPM)		415 @ 3600	500 @ 3600
Recommended fuel regular – premium		Premium	

ENGINE – PISTONS

Material			Aluminum impact extruded	
Description and finish			Domed head, slipper skirt	
Weight (piston only) oz.			23.12	26.80
Clearance (limits)	Top land		.0316 - .0384	.0316 - .0384
	Skirt	Top	.0036 - .0044 (a)	.0038 - .0048 (b)
		Bottom		
Ring groove depth	No. 1 ring		.2278 - .2342	.2373 - .2437
	No. 2 ring		.2278 - .2342	.2373 - .2437
	No. 3 ring		.2138 - .2139	.2158 - .2172
	No. 4 ring		None	

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

(a) Measured 2.150 from top of piston
(b) Measured 1.910 from top of piston

AMA Specifications—Passenger Car

Page 5

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (a)

MODEL			Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 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, molybdenum inlay	
		lower	Cast alloy iron; inside bevel, tapered face, chrome plated	
	Width		.0770 - .0780	.0770 - .0775
	Gap		.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			2.930 - 2.950	
Diameter			.9895- .9898	
Type	Locked in rod, in piston, floating, etc.		Locked in rod	
	Bushing	In rod or piston	None	
		Material		
Clearance	In piston		.00025 - .00035	.00030 - .00040
	In rod			
Direction & amount offset in piston			On center	
ENGINE – CONNECTING RODS				
Material			Drop forged steel	
Weight (oz.)			27.84	29.44
Length (center to center)			6.130 - 6.140	
Bearing	Material & Type		Premium Aluminum	
	Overall length		.847	
	Clearance (limits)		.0009 - .0025	
	End play		.015 - .023	

AMA Specifications—Passenger Car

Page 6

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ENGINE – CRANKSHAFT

Material			Forged steel	
Vibration damper type			Rubber mounted inertia	
End thrust taken by bearing (No.)			5	
Crankshaft end play			.006 - .010	
Main bearing	Material & type		Steel backed insert; copper lead alloy or premium aluminum lining selected for specific application	
	Clearance		No. 1 (.0008-.0020) No. 2, 3 & 4 (.0011-.0023) No. 5 (.0017-.0033)	
	Journal dia. and bearing overall length	No. 1	2.7509 x .992	2.7503 x .992
		No. 2	2.7510 x .992	2.7505 x .992
		No. 3	2.7505 x .992	2.7505 x .992
		No. 4	2.7505 x .992	2.7505 x .992
		No. 5	2.7510 x 1.2525	2.7510 x 1.2525
		No. 6	None	
		No. 7	None	
	Dir. & amt. cyl. offset		None	
Crankpin journal diameter			2.199-2.200	

ENGINE – CAMSHAFT

Location			In block above crankshaft
Material			Cast alloy iron
Bearings	Material		Steel backed babbitt
	Number		5
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Steel sprocket
	Camshaft gear or sprocket material		Nylon teeth with aluminum hub
	Timing chain	No. of links	50
		Width	.740
		Pitch	.500

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Not available
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.70:1
Operating tappet clearance (indicate hot or cold)	Intake	.024
	Exhaust	.023

(Continued)

AMA Specifications—Passenger Car

Page 7

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	44°
		Closes (°ABC)	92°
		Duration - deg.	316°
	Exhaust	Opens (°BBC)	86°
		Closes (°ATC)	36°
		Duration - deg.	302°
	Valve opening overlap		80°
Intake	Material		Alloy steel; aluminized face & head
	Overall length		5.204-5.224
	Actual overall head dia.		2.185-2.195
	Angle of seat & face		46° (seat); 45° (face)
	Seat insert material		None
	Stem diameter		.3712-.3717
	Stem to guide clearance		.0010-.0027
	Lift (@ zero lash)		.5197
	Outer spring press. & length	Valve closed (lb. @ in.)	69-81 @ 1.88
		Valve open (lb. @ in.)	228-252 @ 1.38
	Inner spring press. & length	Valve closed (lb. @ in.)	26-34 @ 1.78
		Valve open (lb. @ in.)	81-99 @ 1.28
Exhaust	Material		High alloy steel; aluminized face & head
	Overall length		5.345-5.365
	Actual overall head dia.		1.875-1.885
	Angle of seat & face		46° (seat); 45° (face)
	Seat insert material		None
	Stem diameter		.3705-.3710
	Stem to guide clearance		.0010-.0027
	Lift (@ zero lash)		.5197
	Outer spring press. & length	Valve closed (lb. @ in.)	69-81 @ 1.88
		Valve open (lb. @ in.)	228-252 @ 1.38
	Inner spring press. & length	Valve closed (lb. @ in.)	26-34 @ 1.78
		Valve open (lb. @ in.)	81-99 @ 1.28

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure jet cross sprayed

(Continued)

AMA Specifications—Passenger Car

Page 8

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ENGINE – LUBRICATION SYSTEM (cont.)

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, SW-30, 10W-30, 10W-40 Below 20° F-5W, 5W-20, SW-30
Engine Service Reqmt. (MM, MS, etc.)	MS

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual with resonators
Muffler No. & type (reverse flow, straight thru, separate resonator)		2 mufflers and 2 resonators; 1 transverse resonator on Pick-up
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .069 laminated (pipe-muffler to resonator)
	Main	2.50 x .082 laminated
Tail pipe dia. (O.D. & wall thickness)		2.00 x .069

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)		Standard	Ventilates to induction system
		Optional	None
Control Unit	Make and model		AC Spark Plug
	Location		Left front rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)		Manifold vacuum
	Control method (variable orifice, fixed orifice, other)		Variable orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)		Carburetor air cleaner
	Flame arrestor (screen, check valve, other)		Screen

AMA Specifications—Passenger Car

Page 9

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

ENGINE – EXHAUST EMISSION CONTROL

			Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP
MODEL				
Type (Air injection, engine modifications, other)			Air injection	
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 - separate from pump	
	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	
Carburetor	Make		Holley	
	Model		3967477 (manual trans); 3969898 (automatic trans)	
	Barrel size		1.686 primary & secondary	
	Idle speed	Drive	700 (automatic)	
		Neutral	750 (manual)	
	Idle A/F mixture		Not specified	
Distributor	Aux. Adv. Systems (type)		Transmission controlled vacuum spark advance	
	Make		Delco-Remy	
	Model		1112000	1111437
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	1000	1000
		Intermed. points deg. @ rpm	15 @ 1800	17 @ 2000
		Max. deg. @ rpm	36 @ 5000	26 @ 3800
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	6.00	7.00
		Intermed. points deg. @ in. Hg	None	None
		Max. deg. @ in.	15 @ 12	12 @ 16
	Vacuum Source		Carburetor	
Timing - Crank degrees @ rpm **			4 BTDC @ 750 (manual trans.); 700 (automatic trans.)	
Cooling System			- - - - - - - - - - - - - -	
Exhaust System			- - - - - - - - - - - - - -	

AMA Specifications—Passenger Car

Page 10 A

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ENGINE – FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.			Carburetor	
Fuel Tank	Refill capacity (U.S. gals.)		Aproximately-20	
	Filler location		Behind hinged rear license plate*	
Fuel Pump	Type (elec. or mech.)		Mechanical	
	Locations		Lower right front of engine	
	Pressure range **		7.50 - 9.00	
Vacuum booster (std., optional, none)			None	
Fuel Filter	Type		Fine mesh plastic strainer in gasoline tank	
	Locations		and paper filter in carburetor inlet	
Carburetor	Choke type		Automatic	
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air cleaner type	Standard	Oil wetted paper element	
		Optional	None	
	Idle speed (spec. neutral or drive)	Manual (N)	750 (neutral)	
		Automatic (D)	700 (drive)	
		Idle A/F mix.	Not specified	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
13637	V8-396	Manual	Holley	3967477	One; 4-bbl.	1.69 Primary & Secondary
13667	402CU	Automatic		3969898		
13680	454	Manual	Holley	3967477		
		Automatic		3969898		

* Left Quarter panel on Pick-up

** Shut off pressure - 1800 RPM at pump outlet

AMA Specifications—Passenger Car

Page 10 B

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL Evaporation Emission Control System (California vehicles)

Fuel Tank Capacity - 18 Gals. (approximately)

Components:-

Fill Limiter - Shaped metal pan welded inside of gas tank to reserve space for normal gasoline expansion and contraction.

Canister - Canister of activated carbon stores vapors vented from gas tank until removed and burned in the engine.

Liquid Separator - Connected in vent lines to canister. Separates and returns liquid fuel to the tank.

Constant flow purge line - (canister to manifold) Incorporates an orifice to regulate flow to manifold under all engine operating conditions, including idle.

Variable Flow Purge Line - (canister to air cleaner) (snorkel) Becomes functional above engine idle speeds to more completely purge the canister

Aluminum Heat Dissipator- Positioned between insulation blocks and intake manifold. Provides optimum heat transfer to surrounding atmosphere.

Carburetor Model No.'s

	V8-396 350 HP	V8-454 450 HP
Manual	3967479	3967479
Automatic	3969894	3969894

AMA Specifications—Passenger Car

Page 11

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ENGINE – COOLING SYSTEM

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)		177° - 183°	
Water pump	Type (centrifugal, other)		Centrifugal	
	GPM @ 1000 pump rpm		24 @ 2000	27 @ 2000
	Number of pumps		One	
	Drive (V-belt, other)		V-belt	
	Bearing type		Permanently lubricated double row ball	
By-pass recirculation type (inter., ext.)			External	
Radiator core type (cellular, tube and fin, other)			Tube and Center	
Cooling system capacity	With heater (qt.)		23	22
	Without heater (qt.)		22	21
	Opt. equipment-specify (qt.)		24	23
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	
		Inside diameter	1.88	
	Upper	Number and type (molded, straight)	One, molded	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	One, molded	
		Inside diameter	.745	
Fan	Number of blades & spacing		7-staggered	
	Diameter		18.00	
	Ratio-fan to crankshaft rev.		.949:1	
	Fan cutout type		Thermo-modulated, viscous coupling	
	Bearing type		Double row ball	
*Drive belts (indicate belt used by letter)	Fan		A	
	Generator or alternator		A	
	Water Pump		A	
	Power Steering		B	
	Air Conditioning		Not available	
	Air Injection Pump		A	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38° - 42°										
Nominal length (SAE)	47.30	40.30									
Width	.380										

AMA Specifications—Passenger Car

Page 12

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980030	Delco-Remy 1980080
	Voltage Rtg. & Total Plates		12 volts - 66 plates	12 volts-78 plates
	SAE Designation & Amp. Hr. Rtg.		61 amp hr. @20 hr.rate	62 lamps @20 hr.rate
	Location		Right side of engine compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco-Remy	
	Model		1100837	
	Type and rating		Diode rectified 37 amps	
	Output at engine idle (neutral)		13 amps	
	Ratio-Gen. to Cr/s rev.		2.46:1	
Regulator	Make		Delco-Remy	
	Model		1119515	
	Type		Vibrator	
	Cutout relay	Closing voltage - generator rpm	None	
		Reverse current to open	None	
	Regulated	Voltage	13.8-14.8 @ 85° F	
		Current	- - -	
	Voltage test conditions	Temperature	Operating	
		Load	3-8 amperes	
		Other	None	

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy	
	Model		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	
		Flywheel - Manual	168	
		Flywheel - Auto.	168	
	Flywheel tooth face width	Manual	.4100 - .4220	
		Auto.	.4100 - .4220	

* 1108430 with automatic transmission

AMA Specifications—Passenger Car

Page 13

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL			Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 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		1115293	
	Amps	Engine stopped	4.0	
		Engine idling	1.8	
Distributor	Make			
	Model			
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)		
		Intermediate points deg. @ rpm	REFER TO PAGE NINE	
		Max. deg. @ rpm		
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)		
		Intermediate points, deg. @ in. Hg.		
		Max. deg. in. Hg.		
	Breaker gap (in.)		.019	
	Cam angle (deg.)		28-30	
	Breaker arm tension (oz.)		28-32	
Timing	Crankshaft deg. @ rpm		Refer to page nine	
	Mark location		Torsional damper	
Spark Plug	Make		AC Spark Plug	
	Model		ACR43T	
	Thread (mm)		14	
	Tightening torque (lb. ft.)		25	
	Gap		.033-.038	
Cable	Conductor type		Linen core impregnated with electrical conducting material	
	Insulation type		Rubber with neoprene jacket	
	Spark plug protector		Neoprene	

ELECTRICAL – SUPPRESSION

Locations & type	Non-metallic high ignition cable

AMA Specifications—Passenger Car

Page 14

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	Dial with pointer
	Trip odometer (yes,no)	No
Charge indicator – type		Tell-tale
Temperature indicator – type		Tell-tale
Oil pressure indicator – type		Tell-tale
Fuel indicator – type		Electric gauge
Other		Refer to page 23
Wind-shield wiper	Type – Standard	Electric, two-speed
	Type – Optional	None
Wind-shield washer	Type – Standard	Push-button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	4.5-6.5 @ 12.5 V (Low note); 4.2-6.2 @ 12.5 V (high note)

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Chevrolet, single dry disc, centrifugal	
Type pressure plate springs		Diaphragm, bent finger design	
Total spring load (lb.)		2450 - 2750	2600 - 2800
No. of clutch driven discs		One	
Clutch facing	Material	Woven type asbestos	
	Outside & inside dia.	11.00 x 6.50	
	Total eff. area (sq.in.)	123.70	
	Thickness	.140	
	Engagement cushioning method	Flat spring steel between facings	
Release bearing	Type & method of lubrication	Single row ball, packed and sealed	
Torsional damping	Methods: springs, friction material	Coil springs	

AMA Specifications—Passenger Car

Page 15

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL Turbo-Jet 396 & 454

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		Four	
Transmission ratios	In first	2.52	2.20
	In second	1.88	1.64
	In third	1.46	1.27
	In fourth	1.00	1.00
	In reverse	2.59	2.26
Synchronous meshing, specify gears		All forward speeds	
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	

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

AMA Specifications—Passenger Car

Page 16

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 V8-375 HP	Turbo-Jet 454 V8-450 HP

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Turbo Hydra-Matic		
Type describe		Torque converter with planetary gears		
Selector location		Lever, steering column; floor mounted when used with console and optional bucket seats		
List gear ratios Selector Pattern and indicate which are used in each selector position		P-Park R-2.08 N-Neutral D-2.48-1.48-1.00 L_2-2.88-1.48 L_1-2.48		
Max. upshift speed–drive range		1-2 51; 2-3 92	1-2 51;	2-3 98
Max. kickdown speed–drive range		2-1 34; 3-2 84	2-1 33;	3-2 91
Torque convertor	Number of elements	3		
	Max. ratio at stall	2.10		
	Type of cooling (air, liquid)	Water		
	Nominal diameter	12.20		
Lubricant	Capacity–refill (pt.)	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.	
	Manual 4-speed trans.	3.25 x 56.34 x .065 Coupe 3.25 x 60.14 x .065 Pick-up
	Overdrive transmission	Not available
	Automatic transmission	Same as 4-speed

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

(Continued)

AMA Specifications—Passenger Car

Page 17

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL Turbo-Jet 396 & 454

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.		1.1750 - 1.1752
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)	Prepack
Drive taken through (torque tube or arms, springs)			Control arms
Torque taken through (torque tube or arms, springs)			Control arms

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-floating, overhung hypoid pinion and ring gear
Limited Slip differential, type			Cone clutches or dual disc clutches
Drive Pinion Offset			1.50
No. of differential pinions			Two
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			Collapsible Sleeve
Wheel bearing type			Direct on single row cylindrical
Lubricant	Capacity (pt.)		4.25 (8.875 ring gear)
	Type recommended		Meeting Military Specs. MIL-L-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		3.31	3.55	4.10
No. of teeth	Pinion	13	11	10
	Ring gear	48	39	41
Ring Gear O.D.			8.875	

AMA Specifications—Passenger Car

Page 18

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Turbo-Jet 396 & 454

DRIVE UNITS – WHEELS

Type & material			Short spoke disc; steel
Rim (size & flange type)		Std.	14 x 7JJ
		Opt.	None
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, Load Range, and ply		F70 x 14 - Coupe and Convertible G70 x 14 - Pick-up
	Type (bias, radial, etc.)		Fiberglass Bias Belted
	Full rated Inflation Press. *	Front	Cold 24; Hot 30
		Rear	Cold 28; Hot 34
	Rev./Mile at 45 MPH		787 (F70 x 14); 778 (G70 x 14)
Optional	Size, Load Range, and ply		

BRAKES – PARKING

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

* Pressures shown are up to base vehicle load limit.

AMA Specifications—Passenger Car

Page 19

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL Turbo-Jet 396 & 454

BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)					Disc-front; Drum-rear (a)
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.				Delco-Moraine vacuum power unit; integral
	Opt.				---
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				11.00
	Inner working diameter				7.18
	Working width				1.00
	Material & type (vented/solid)				Cast iron; vented
Wheel cylinder bore	Front				2.9375
	Rear				.875
Master Cylinder	Bore				1.125
	displacement distribution	Front	%		73
		Rear	%		27
Pedal arc ratio					3.53
Line pressure at 100 lb. pedal load					1025
Shoe Clearance	Front				Self adjusting
	Rear				Self adjusting
Brake lining	Bonded or riveted				Front-riveted; Rear-bonded
	Front Wheel	Material			Molded asbestos
		Size (length x width x thickness)	Prim. or outboard		5.96 x 2.21 x .41
			Second. or inboard		5.96 x 2.21 x .41
		Segments per shoe			One
	Rear Wheel	Material			Molded asbestos
		Size (length x width x thickness)	Prim. or outboard		9.01 x 2.0 x .17
			Second. or inboard		9.01 x 2.0 x .17
		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.)

(a) Disc-single piston, floating caliper, Drum-single piston, duo servo.

AMA Specifications—Passenger Car

Page 20

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL Turbo-Jet 396 & 454

STEERING

Manual (std., opt., NA)				Standard-energy absorbing steering column
Power (std., opt., NA)				Standard
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt: tilt achieved with universally-jointed steering shaft base of steering wheel; 5 inch vertical travel range
		(std., opt., NA)		Optional
Wheel diameter		Manual		16.25 x 15.50 (Oval)
		Power		Same as manual
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		45.5
		Curb to curb (l. & r.)		42.0
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Manual	Gear	Type		Semi-reversible, recirculating ball nut
		Make		Saginaw Steering
		Ratios	Gear	24:1
			Overall	28.7:1
	No. wheel turns (stop to stop)			5.5
Power	Type (coaxial, linkage, etc.)			Integral gear with vane type pump
	Make			Saginaw Steering
	Gear	Type		Same as manual
		Ratios *	Gear	16.1-12.4:1 (Coupe & Convertible) 17.5:1 Pick-up
			Overall	18.7-12.4:1 (Coupe & Convertible) 20.3:1 Pick-up
	Pump driven by			Crankshaft pulley
	No. wheel turns (stop to stop)			2.9
Linkage	Type			Paralleogram
	Location (front or rear of wheels, other)			Front of wheels
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two
Steering Axis	Inclination at camber (deg.)			7-3/4 to 8-3/4
	Bearings (type)	Upper		Ball stud with non metallic surfaces
		Lower		Ball stud with non metallic surfaces
		Thrust		None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			N 1-1/2 to N 1/2; pick-up N 1 to 0
	Camber (deg.)			0 to P 1
	Toe-in (outside track inches)			1/8 to 1/4
Steering spindle & joint type				Forging with pad for mounting brake cylinder; spherical joints
Wheel Spindle	Diameter	Inner bearing		1.2493-1.2498
		Outer bearing		.7493-.7498
	Thread size			3/4 - 20 NEF - 3 (modified)
	Bearing type			Taper roller

AMA Specifications—Passenger Car

Page 21

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL	Coupe & Convertible	Pick-up

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling		Front stabilizer bar
Provision for brake dip control		Mounting angle of front upper control arms
Provision for acc. squat control		Geometry of rear suspension
Special provisions for car jacking		Position jack in bumper notch on lower face of front and rear bumper
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 spring and concentric shock absorber and spherically jointed steering knuckle for each wheel.	
Spring	Type	Coil	
	Material	Steel alloy	
	Size (coil design height & I.D.; bar length x dia.)	11.7 x 3.63; 125.89 x .659	11.7 x 3.63; 132.05 x .654
	Spring rate (lb. per in.)	435	390
	Rate at wheel (lb. per in.)	150	136.5
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	H. R. steel .812	

SUSPENSION – REAR

Type and description			Linked; salisbury axle fixed by control arms	
Drive and torque taken through			Control arms	
Spring	Type		Coil	
	Material		Steel alloy	
	Size (length x width, coil design height & I.D.; bar length & dia.)		9.0 x 5.50; 85.2 x .553	9.0 x 5.50; 105.0 x .592
	Spring rate (lb. per in.)		160	160
	Rate at wheel (lb. per in.)		155	155
	Mounting insulation type		Natural rubber	
	If leaf	No. of leaves	---	
		Shackle (comp. or tens.)	---	
Stabilizer	Type (link, linkless, frameless)		None	
	Material		---	
Track bar type			None	

AMA Specifications—Passenger Car

Page 22

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (•)

MODEL

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	All welded perimeter frame with front crossmember; rear suspension crossmember and rear crossmember

BODY – MISCELLANEOUS INFORMATION

		Sport Coupe	Convertible	Pick-up
Drs. hinged (front, rr.)	Front doors	Front		
	Rear doors	Front		
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 of instrument panel pad		
Engine No. location		On top front of RH bank of cylinder and case		
Theft protection - type		Lock, mounted on steering column; locks steering wheel, transmission shift levers and ignition		
Vent window control method (crank, friction pivot)	Front	Friction pivot (no ventipane on Sport Coupe & Convertible)		
	Rear	None		
Seat cushion type	Front	Formed wire and foam pad		
	Rear	Formed wire, foam pad and cotton		
	3rd seat			
Seat back type	Front	Formed wire and foam pad		
	Rear	Formed wire, foam pad and cotton		
	3rd seat			
Windshield glass type (i.e., single curved - laminated plate)		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)		Tempered plate Curved		Tempered plate Flat
Windshield glass exposed surface area		1208.7	1211.8	1208.7
Side gloss exposed surface area		1334.0	1260.4	648.0
Backlight glass exposed surface area		1059.4	539.7	695.6
Total glass exposed surface area		3602.1	3011.9	2552.3

AMA Specifications—Passenger Car

Page 23

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

MODEL

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	NA
	Backlight or tailgate	- - -
Power seats (specify type as well as availability)		NA
Reclining front seat back (R-L or both)		NA
Front seat head restrainer (R-L or both)		Standard
Radios (specify type as well as availability)		Optional AM Push-button AM-FM Stereo radio; AM-FM Push-button
Rear seat speaker		Optional
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		NA
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Standard
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional exc. conv. (standard)
Map lamp		Optional
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA
Finger tip washer-wiper control		Optional
Windshield antenna		Available with factory installed radio

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	
		Lowest	
	Tail	Highest	
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

Page 24

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 10-15-69 REVISED (•)

WEIGHTS

Model	CURB WEIGHT * POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	LIQUID WEIGHT Fuel	Coolant
"SS" 396 (L78) *									
2-Door Sport Coupe 13637	2111	1615	3726	46.6	53.4	20.0	80.0	122.4	32.9
2-Door Convertible 13667	2103	1668	3771	46.6	53.4	20.0	80.0	122.4	32.9
2-Door Pick-up 13680	2118	1633	3751	49.3	50.7	--	--	122.4	32.9
"SS" 454 (LS6) *									
2-Door Sport Coupe 13637	2091	1615	3706	46.6	53.4	20.0	80.0	122.4	32.9
2-Door Convertible 13667	2083	1668	3751	46.6	53.4	20.0	80.0	122.4	32.9
2-Door Pick-up 13680	2098	1633	3731	49.3	50.7	--	--	122.4	32.9

* The total weight includes, in addition to the vehicle and engine weights, all equipment mandatory to this option. (Power disc brakes, special suspension, 4-spd. trans. and tires)

Accessories & Equipment Differential Weights				Remarks
Turbo Hydra-Matic Trans	54	11	65	with L78
	45	9	54	with LS6
Bucket Seats	11	9	20	Coupe & Convertible
	21	17	38	Pick-up
Floor Console	6	3	9	with 4-Spd. Trans.
	11	4	15	with Turbo Hydra-Matic
Power Steering	27	2	29	
Ducted Hood	7	7	14	
Evaporative Emission Cnt	4	1	5	
Radio Push Button	6	2	8	
Radio Stereo	12	4	16	
Heavy Duty Clutch	9	1	10	

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

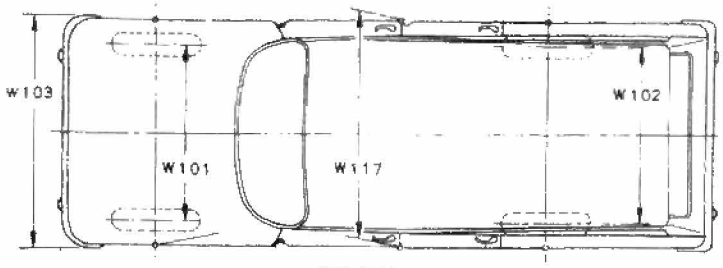
AMA Specifications—Passenger Car

Page 25

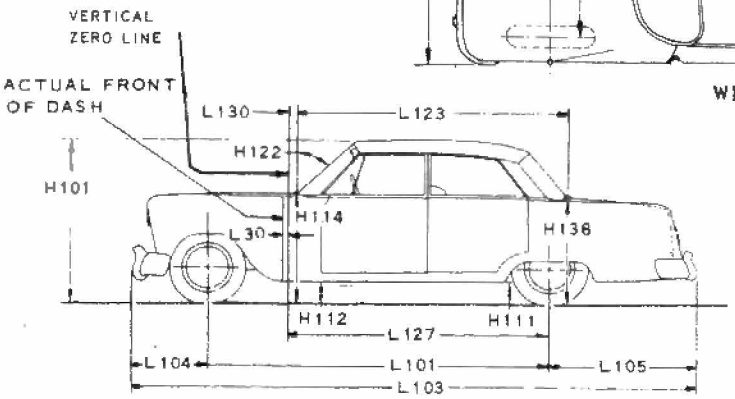
CAR AND BODY DIMENSIONS

KEY SHEET

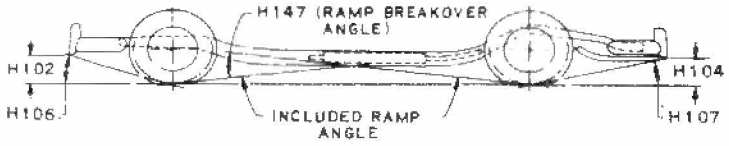
EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

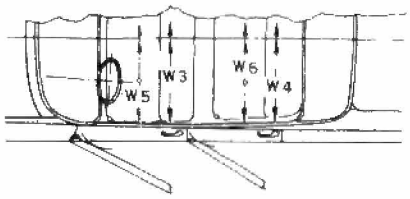


LENGTH & HEIGHT

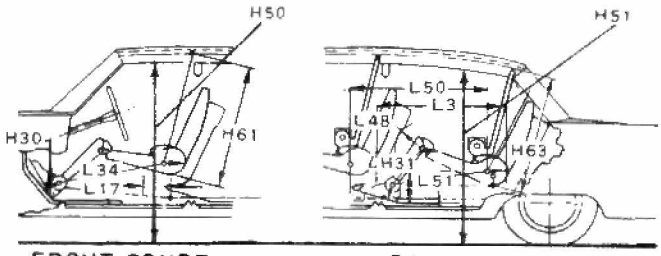


GROUND CLEARANCE

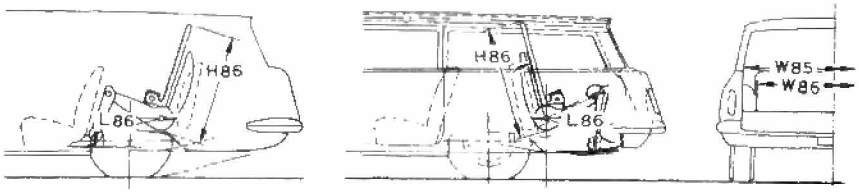
INTERIOR CAR AND BODY DIMENSIONS



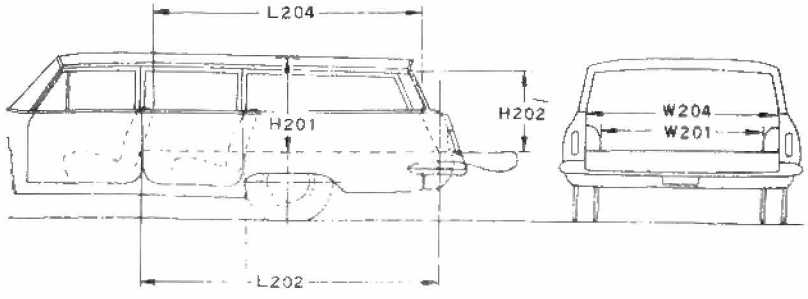
WIDTH



FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

AMA Specifications—Passenger Car

CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

W101 WHEEL TREAD – FRONT. Measured at centerline of tires, with nominal camber, at ground.

W102 WHEEL TREAD – REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.

W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (–) sign.

L101 WHEELBASE.

L103 OVERALL LENGTH. Include bumper guards if standard equipment.

L104 OVERHANG – FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.

L105 OVERHANG – REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.

L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.

L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.

L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

H101 OVERALL HEIGHT – DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.

H114 COWL POINT TO GROUND. Measured at vehicle centerline.

H138 DECK POINT TO GROUND. Measured at vehicle centerline.

H112 ROCKER PANEL TO GROUND – FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

H111 ROCKER PANEL TO GROUND – REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.

H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

H102 BUMPER TO GROUND – FRONT. Minimum dimension, includes bumper guards.

H104 BUMPER TO GROUND – REAR. Minimum dimension, includes bumper guards.

H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.

H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

H 61 EFFECTIVE HEAD ROOM – FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.

H 30 H POINT TO HEEL POINT – FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.

L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

W 3 SHOULDER ROOM – FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.

W 5 HIP ROOM – FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.

H 50 UPPER BODY OPENING TO GROUND – FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

H 63 EFFECTIVE HEAD ROOM – REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 51 MINIMUM EFFECTIVE LEG ROOM – REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.

H 31 H POINT TO HEEL POINT – REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.

L 48 MINIMUM KNEE ROOM – REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.

L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.

W 4 SHOULDER ROOM – REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.

W 6 HIP ROOM – REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.

H 51 UPPER BODY OPENING TO GROUND – REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

V 1 LUGGAGE CAPACITY – USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.

H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON – THIRD SEAT DIMENSIONS

W 85 SHOULDER ROOM – THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W 86 HIP ROOM – THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.

L 86 EFFECTIVE LEG ROOM – THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.

H 86 EFFECTIVE HEAD ROOM – THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON – CARGO SPACE DIMENSIONS

L202 CARGO LENGTH AT FLOOR – FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.

L204 CARGO LENGTH AT BELT – FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.

W201 CARGO WIDTH – WHEELHOUSE. The minimum horizontal dimension, measured between wheelhousings at floor level.

W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.

H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.

H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail and liftgates fully open.

V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

$$\frac{W4 \times L204 \times H201}{1728}$$

AMA Specifications—Passenger Car

Page 27

INDEX