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	CAR NAME	
Chevrolet Motor Division General Motors Corporation	CHEVY NOVA	
MAILING ADDRESS Chevrolet Engineering Center 30003 Van, Dyke, Warren, Mich 48090	MODEL YEAR 1969	ISSUED: 10-15-68 REVISED (e)

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.

	L-4 Engine	L-6 Engine	V-8 Engine
NOVA			
2-Door Coupe, 5-Passenger	11127	11327	11427
4-Door Sedan, 6-Passenger	11169	11369	11469

AMA Specifications—Passenger Car

Page 1

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 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 COUPE	4-DOOR SEDAN
WIDTH				
Track – Front		W101	59.0	
Track – Rear		W102	58.9	
Maximum overall car width		W103	72.4	
Body width at No. 2 pillar		W117	---	70.7
LENGTH				
Body "O" to front of dash		L 30	0.5	
Wheelbase		L101	111.0	
Overall car length		L103	189.4	
Overhang – front		L104	29.8	
Overhang – rear		L105	48.6	
Body upper structure length		L123		
Body "O" line to ℄ of rear wheel		L127	93.0	
Body "O" line to w/s cowl point		L130		
HEIGHT				
Passenger Distribution (front & rear)			2-3	
Trunk/Cargo load (lbs.)			200 lbs.	
Overall height		H101	52.4	53.9
Cowl height		H114	36.4	36.5
Deck height		H138		
Rocker panel – front	To ground	H112	8.2	
	From front wheel ℄			
Rocker panel – rear	To ground	H111	7.4	7.5
	From rear wheel ℄			
Windshield slope angle		H122	50.1	
GROUND CLEARANCE				
Bumper to ground – front		H102	18.4	
Bumper to ground – rear		H104	16.3	16.6
Angle of approach		H106	30.7	30.9
Angle of departure		H107	15.3	15.4
Ramp breakover angle		H147	12.3	
Min. running clearance (Specify)		H156	(H152) 5.0	5.1

AMA Specifications—Passenger Car

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (0)

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 COUPE	4-DOOR SEDAN
FRONT COMPARTMENT			
Effective head room	H61	37.6	38.8
Max. eff. leg room – accelerator	L34	41.6	
H Point to Heel point	H30	8.4	
H Point travel	L17	4.0	
Shoulder room	W 3	56.5	
Hip room	W 5	56.2	
Upper body opening to ground	H50	47.2	48.3
REAR COMPARTMENT			
H Point couple distance	L50	30.2	32.4
Effective head room	H63	36.6	37.2
Min. effective leg room	L51	32.6	35.3
H Point to Heel point	H31	11.0	12.1
Min. knee room	L48	0.5	2.3
Rear Compartment room	L 3	24.3	26.2
Shoulder room	W 4	55.3	56.6
Hip room	W 6	56.1	
Upper body opening to ground	H51	---	48.4
LUGGAGE COMPARTMENT			
Usable luggage capacity	V 1	13.8	12.7
Liftover height	H195	27.6	27.7
Position of spare tire storage		Horizontal - center forward area of trunk floor.	
Method of holding lid open		Strap type hinges actuating torsion rods on lid.	
STATION WAGON – THIRD SEAT			
Shoulder Room	W85	NOT	
Hip room	W86		
Effective leg room	L86	AVAILABLE	
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	NOT	
Cargo width – Wheelhouse	W201		
Opening width at belt	W204	AVAILABLE	
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

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (a)

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			A	B	C	D
ALL MODELS	153 Standard	One, 1-bbl Downdraft	8.5:1	90 @ 4000	152 @ 2400	3-Speed (2.85:1 low) and Powerglide*	Base	3.08	2.73	3.36	--
							A/C	Not available			
						Torq-Drive*	Base	3.08	--	--	--
	230 Standard	One, 1-bbl Downdraft	8.5:1	140 @ 4400	220 @ 1600	3-Speed (2.85:1 low)	Base	3.08	2.73	3.36	--
							A/C	3.08	2.73	3.36	--
						Torq-Drive*	Base	2.73	--	--	--
							A/C	3.08	--	--	--
						Powerglide* and Trb.Hyd-Mtc*	Base	2.73	2.56	3.08	3.36
							A/C	3.08	2.73	3.36	--
	307 Standard	One 2-bbl Downdraft	9.00:1	200 @ 4600	300 @ 2400	3-Speed (2.85:1 low) and 4-Speed* (2.85:1 low)	Base	3.08	2.73	3.36	--
							A/C	3.08	2.73	3.36	--
						Powerglide* and Trb.Hyd-Mtc*	Base	2.73	2.56	3.08	3.36
							A/C	3.08	2.73	3.36	--

* - Optional
**- Positraction optional for all ratios

A - Standard
B - Economy
C - Performance
D - Special

AMA Specifications—Passenger Car

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (*)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO ** (Std. first) (Indicate A C ratio) A	B	C	D
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM						
All Models	250 Opt. (L22)	One 1-bbl Down-draft	8.5:1	155 @ 4200	235 @ 1600	3 Speed (2.85:1 low)	Base	3.08	2.73	3.36	--
							A/C	3.08	2.73	3.36	--
						Torq-Drive*	Base	2.73	--	--	--
							A/C	3.08	--	--	--
						Powerglide* and Trb.Hyd-Mtc*	Base	2.73	2.56	3.08	3.36
							A/C	3.08	2.73	3.36	--
	350 Opt. (LM1)	One, 4-bbl Down-draft	9.00:1	255 @ 4800	365 @ 3200	H. D. 3-Spd (2.42:1 low) and 4-Speed* (2.52:1 low)	Base	3.31	3.07	3.55	--
							A/C	3.31	3.07	3.55	--
						Powerglide* and Trb.Hyd-Mtc*	Base	3.08	2.73	3.36	3.55
							A/C	3.08	2.73	3.36	3.55
Coupe Only	350 Opt. (L48)	One, 4-bbl Down-draft	10.25:1	300 @ 4800	380 @ 3200	Same Transmission and axle application as Option LM1 above					

* - Optional
** - Positraction optional for all ratios

A - Standard
B - Economy
C - Performance
D - Special

AMA Specifications—Passenger Car

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

MODEL		L4-153 Cu. In. 90 HP - Std	L6-230 Cu. In. 140 HP - Std	V8-307 Cu. In. 200 HP -Std
ENGINE – GENERAL				
Type, no. cyls., valve arr.		In-Line 4 OHV	In-Line 6 OHV	90° V-8 OHV
Bore and stroke (nominal)		3.875 x 3.25		
Piston displacement, cu. in.		153	230	307
Bore spacing (℄ to ℄)		4.40		
No. system (front to rear)	L. Bank	1-2-3-4	1-2-3-4-5-6	1-3-5-7
	R. Bank	In-Line	In-Line	2-4-6-8
Firing order		1-3-4-2	1-5-3-6-2-4	1-8-4-3-6-5-7-2
Compres. ratio (nominal)		8.5:1		9.00:1
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°55'		
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		24.0	36.0	48.0
Publishing max. bhp* @ eng. RPM		90 @ 4000	140 @ 4400	200 @ 4600
Publishing max. torque * (lb. ft. @ RPM)		152 @ 2400	220 @ 1600	300 @ 2400
Recommended fuel regular – premium		Regular		
ENGINE – PISTONS				
Material		Cast aluminum alloy		
Description and finish		Flat, notched head, slipper skirt		
Weight (piston only) oz.		20.32		26.32
Clearance (limits)	Top land	.0345-.0435		.0235-.0325
	Skirt Top	.0005-.0011 (a)		.0005-.0011 (b)
	Skirt Bottom			
Ring groove depth	No. 1 ring	.2153-.2218		.2113-.2178
	No. 2 ring	.2153-.2218		.2113-.2178
	No. 3 ring	.2093-.2158		.2053-.2118
	No. 4 ring	None		

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

(a) - Measured 2.44 from top of piston

(b) - Measured 1.675 from top of piston

AMA Specifications—Passenger Car

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (*)

ENGINE – GENERAL

MODEL		L6-250 Cu. In. 155 HP-Opt L22	350 Cu. In. 255 HP-Opt LM1	350 Cu. In. 300 HP-Opt L48
Type, no. cyls., valve arr.		In-Line 6 OHV	90° V-8 OHV	
Bore and stroke (nominal)		3.875 x 3.53	4.00 x 3.48	
Piston displacement, cu. in.		250	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	9.00:1	10.25:1
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°55'	
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		36.0	51.2	
Publishing max. bhp* @ eng. RPM		155 @ 4200	255 @ 4800	300 @ 4800
Publishing max. torque * (lb. ft. @ RPM)		235 @ 1600	365 @ 3200	380 @ 3200
Recommended fuel regular – premium			Regular	Premium

ENGINE – PISTONS

Material		Cast aluminum alloy	
Description and finish		Flat, notched head, slipper skirt	
Weight (piston only) oz.		24.16	20.91
Clearance (limits)	Top land	.0245-.0335	.0235-.0325
	Skirt Top	.0005-.0011 (a)	.0007-.0013 (b)
	Skirt Bottom		
Ring groove depth	No. 1 ring	.2153-.2218	.2218-.2283
	No. 2 ring	.2153-.2218	.2218-.2283
	No. 3 ring	.2093-.2158	.2038-.2103
	No. 4 ring	None	

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

(a) Measured 2.44 from top of piston
(b) Measured 1.56 from top of piston

AMA Specifications—Passenger Car

Page 5

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

MODEL		L4-153 90 HP	L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255 & 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	(a)		Cast alloy iron, barrel face; chromeplate		
	Lower	Cast alloy iron; inside bevel, tapered face; wear resistant ctg.				
	Width	(b)	(c)	(b)	(d)	
	Gap	.010-.020			(e)	
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				
Diameter		.9270-.9273				
Type	Locked in rod, in piston, floating, etc.	Locked in rod				
	Bushing – In rod or piston	None				
	Bushing – Material	None				
Clearance	In piston	.00015-.00025			.00025-.00035	
	In rod	None				
Direction & amount offset in piston		Major thrust side .060				
ENGINE – CONNECTING RODS						
Material		Drop forged steel				
Weight (oz.)		12.50			20.80	
Length (center to center)		5.695-5.705				
Bearing	Material & Type	Copper lead alloy (sintered) steel backed material			Premium aluminum	
	Overall length	.807				
	Clearance (limits)	.0007-.0027				
	End play	.009-.013				

(a) Cast alloy iron; inside bevel and tapered face; chrome plated
(b) Upper .0775-.0780; lower .0770-.0780
(c) Upper .0628-.0633; lower .0623-.0633
(d) Upper .0775-.0780; lower .0770-.0775
(e) Upper .010-.020; lower .013-.025

AMA Specifications—Passenger Car

Page 6

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

MODEL	L4-153 90 HP	L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255 & 300 HP

ENGINE – CRANKSHAFT

Material			Cast nodular iron		
Vibration damper type			Rubber mounted inertia		
End thrust taken by bearing (No.)			5	7	5
Crankshaft end play			.002-.006		
Main bearing	Material & type		Steel with backed insert (selected bearing material-copper lead alloy or premium aluminum-for intended operation or application		
	Clearance		.0003-.0029		(a)
	Journal dia. and bearing overall length	No. 1	2.3004 x .752		2.4502 x .752
		No. 2	2.3004 x .752		2.4505 x .752
		No. 3	2.3004 x .752		2.4505 x .752
		No. 4	2.3004 x .752		2.4505 x .752
		No. 5	2.3004 x .760	2.3004 x .752	2.4507 x 1.177
		No. 6	None	2.3004 x .752	None
		No. 7	None	2.3004 x .760	None
	Dir. & amt. cyl. offset		None		
Crankpin journal diameter			1.999 - 2.000		2.099 - 2.100

ENGINE – CAMSHAFT

Location			Above and to right of crankshaft	In block above crankshaft
Material			Cast alloy iron	
Bearings	Material		Steel backed babbitt	
	Number		3 4	5
Type of Drive	Gear or chain		Gear	Chain
	Crankshaft gear or sprocket material		Steel	Steel sprocket
	Camshaft gear or sprocket material		Bakelite and fabric composition with steel hub	Nylon teeth with aluminum hub
	Timing chain	No. of links	None	46
		Width	None	.740
		Pitch	None	.550

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard	
Valve rotator, type (intake, exhaust)	None	
Rocker ratio	1.75:1	1.50:1
Operating tappet clearance (indicate hot or cold) — Intake	Zero	
Operating tappet clearance (indicate hot or cold) — Exhaust	Zero	

(Continued)

(a) No. 1 -.0008-.0020
No. 2, 3, &4 - .0008-.0024
No. 5 - .0015-.0031

AMA Specifications—Passenger Car

Page 7

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

ENGINE – VALVE SYSTEM (cont.)

			L4-153 90 HP	L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255 & 300 HP
Timing (based on top of ramp points)	Intake	Opens (°BTC)	17°30'	16°		28°	
		Closes (°ABC)	54°30'	48°		72°	
		Duration - deg.	252°	244°		280°	
	Exhaust	Opens (°BBC)	57°	46°30'		78°	
		Closes (°ATC)	15°	17°30'		30°	
		Duration - deg.	252°	244°		288°	
	Valve opening overlap		32°30'	33°30'		58°	
Intake	Material		Alloy steel-aluminized face on L6 engines				
	Overall length		4.902-4.922				4.870-4.889
	Actual overall head dia.		1.715-1.725				1.935-1.945
	Angle of seat & face		46°(seat) 45° (face)				
	Seat insert material		None				
	Stem diameter		.3410-.3417				
	Stem to guide clearance		.0010-.0027				
	Lift (@ zero lash)		.3973	.3317	.3880	.3900	
	Outer spring press. & length	Valve closed (lb.@in.)	78-86 @ 1.66	56-64 @ 1.66		76-84 @ 1.70	
		Valve open (lb.@in.)	170-180 @ 1.26	180-192 @ 1.27		194-206 @ 1.25	
	Inner spring press. & length	Valve closed (lb.@in.)	None			Spring damper	
		Valve open (lb.@in.)	None			Spring damper	
Exhaust	Material		High alloy steel; aluminized face				
	Overall length		4.913-4.933				
	Actual overall head dia.		1.495-1.505				
	Angle of seat & face		46° (seat) 45° (face)				
	Seat insert material		None				
	Stem diameter		.3410-.3417				
	Stem to guide clearance		.0010-.0027				
	Lift (@ zero lash)		.3973	.3317	.3880	.4100	
	Outer spring press. & length	Valve closed (lb.@in.)	78-86 @ 1.66	56-64 @ 1.66		76-84 @ 1.70	
		Valve open (lb.@in.)	170-180 @ 1.26	180-192 @ 1.27		194-206 @ 1.25	
	Inner spring press. & length	Valve closed (lb.@in.)	None			Spring damper	
		Valve open (lb.@in.)	None			Spring damper	

ENGINE – LUBRICATION SYSTEM

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

(Continued)

(a) Centrifugally oiled from camshaft bearing

AMA Specifications—Passenger Car

Page 8

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (*)

MODEL	153 Cu In 90 HP	230 Cu In 140 HP	250 Cu In 155 HP	307 Cu In 200 HP	350 Cu In 255 HP	350 Cu 300 HP

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. engine rpm)	50-65 PSI @ 2000 RPM (bench test-no flow conditions)
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.)	3.5 4
Oil grade recommended (SAE viscosity and temperature range)	32° and above - SAE 20W or SAE 10W-30 0° to 32°F* - SAE 10W or SAE 10W-30 Below 0°F - SAE 5W or SAE 5W-20 * (SAE 5W-30 can be used at temperatures below freezing)
Engine Service Reqmt. (MM, MS, etc.)	MS or DG

ENGINE – EXHAUST SYSTEM

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.072-.092(a)	(b)
	Main	2.00 x .057-.071	2.00x.072-.092(a)	(b)
Tail pipe dia. (O.D. & wall thickness)		1.88 x .062-.076	2.00x.062-.076	(b)

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	Top rear rocker cover	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	

(a) - Laminated

(b) Branch - 2.25 x .073-.091 (laminated)
Main - 2.25 x .075-.091 (laminated)
Tail Pipe - 2.25 x .062-.076 (laminated)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (a)

MODEL	L4-153 90 HP	L6-230 140 HP	L6-250 155-HP	V8-307 200 HP	V8-350 255 HP	V8-350 300 HP
ENGINE – EXHAUST EMISSION CONTROL	MANUAL TRANSMISSION					
Type (Air injection, engine modifications, other)	Air injection reactor equipment					
Air Injection Pump – Type	Semi-articulated vane type					
Air Injection Pump – Displacement	19.3					
Air Injection Pump – Drive ratio	1.15:1					
Air Injection Pump – Drive type	Crankshaft pulley					
Air Injection Pump – Relief valve (type)	Diverter valve - separate from pump					
Air Injection Pump – Filter (describe)	Centrifugal air cleaner					
Air Injection System – Air distribution (head, manifold, etc.)	Cylinder head			Manifold		
Air Injection System – Point of entry	Exhaust parts					
Air Injection System – Injection tube I.D.	.2565					
Air Injection System – Check valve type	Pressure plate type					
Air Injection System – Backfire protection (type)	Diverter valve					
Carburetor – Make	REFER					
Carburetor – Model						
Carburetor – Barrel size	TO					
Carburetor – Idle speed – Drive	PAGE					
Carburetor – Idle speed – Neutral						
Carburetor – Idle A/F mixture	TEN					
Distributor – Aux. Adv. Systems (type)	None					
Distributor – Make	Delco-Remy					
Distributor – Model	1110457	1110459	1110463	1111481	1111956	1111488
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Start (rpm)	900	1000	900	1000	1100	950
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Intermed. points deg. @ rpm						
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Max. deg. @ rpm	28@3700	36@4200	32@4200	28@4300	32@4400	30@4700
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Start (in Hg)	7.00			6.00	7.00	8.00
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Intermed. points deg. @ in. Hg						
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Max. deg. @ in.	24@15	23@16		15@12	24@17.5	20@17
Distributor – Vacuum Source	Carburetor					
Timing - Crank degrees @ rpm	TDC@750	TDC@700		2BTC@700	TDC@700	
Cooling System						
Exhaust System						

AMA Specifications—Passenger Car

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

MODEL

ENGINE – EXHAUST EMISSION CONTROL AND AUTOMATIC TRANSMISSIONS

			L4-153 90 HP	L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255 HP	V8-350 300 HP
Type (Air injection, engine modifications, other)			Engine modifications					
Air Injection Pump	Type							
	Displacement		NOT					
	Drive ratio							
	Drive type		USED					
	Relief valve (type)							
	Filter (describe)							
Air Injection System	Air distribution (head, manifold, etc.)		NOT					
	Point of entry							
	Injection tube I.D.							
	Check valve type		USED					
	Backfire protection (type)							
Carburetor	Make		REFER					
	Model							
	Barrel size		TO					
	Idle speed	Drive	PAGE					
		Neutral						
	Idle A/F mixture		TEN					
Distributor	Aux. Adv. Systems (type)		None					
	Make		Delco-Remy					
	Model		1110458	1110460	1110464	1111481	1111955	1111489
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	900	1000	900	1000	1130	900
		Intermed. points deg. @ rpm						
		Max. deg. @ rpm	24@3600	32@4600	28@4200	28@4300	28@4300	26@4700
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)		7.00		6.00	7.00	8.00
		Intermed. points deg. @ in. Hg						
		Max. deg. @ in.	24@15	23@16		15@12	24@17.5	20@17
	Vacuum Source		Carburetor					
Timing - Crank degrees @ rpm			4 BTC@600	4 BTC @550		2 BTC@600	4 BTC@600	
Cooling System								
Exhaust System								

AMA Specifications—Passenger Car

Page 10

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

MODEL	153 Cu. In. 90 HP	230 Cu. In. 140 HP	250 Cu. In. 155 HP	307 Cu. In. 200 HP	350 Cu. In. 255&300 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.)		18 (approximately)		
	Filler location		Behind hinged rear license plate		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Locations		Lower right front of engine		
	Pressure range **		4.00-5.00PSI	5.50-7.50PSI	7.50-9.00PSI
Vacuum booster (std., optional, none)			None		
Fuel Filter	Type		Fine mesh plastic strainer in gasoline tank and		
	Locations		plastic filter in carburetor inlet *		
Carburetor	Choke type		Automatic-manual on 4-cyl		
	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	700	
		Automatic (D)	600	550	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
11100	153	Manual Automatic	Rochester	7029008	One, Single Barrel	1.69
11300	230	Manual	Rochester	7029017(a)		
		Automatic		7029014		
	250	Manual	Rochester	7029017(a)		
		Automatic		7029018		
11400	307	Manual	Rochester	7029101(b)	One two-barrel	1.44
		Automatic		7029110(c)		
	350 255hp	Manual	Rochester	7029203	One four barrel	1.38 Prim
		Automatic		7029202		2.25 Sec.
	350 300hp	Manual	Rochester	7029203		
		Automatic		7029202		

a - 7029015 with Air Conditioning
b - 7029103 " " "
c - 7029112 " " "
* - Additional In-Line paper element also with 350 cu. in. engines
** - Shut off pressure-1800 RPM at pump outlet

AMA Specifications—Passenger Car

Page 11

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (*)

MODEL

ENGINE – COOLING SYSTEM

			153 Cu In 90 HP	230 Cu In 140 HP	250 Cu In 155 HP	307 Cu In 200 HP	350 Cu In 255 & 300 HP
Type system (pressure, pressure vented, atmospheric, other)			Pressure				
Radiator cap relief valve pressure			15± IPSI				
Circulation thermostat	Type (choke, bypass)		Choke				
	Starts to open at (°F)		192° - 198°				
Water pump	Type (centrifugal, other)		Centrifugal				
	GPM @ 1000 pump rpm		60 @ 4400			54 @ 4400	
	Number of pumps		One				
	Drive (V-belt, other)		V-Belt				
	Bearing type		Permanently lubricated double row ball				
By-pass recirculation type (inter., ext.)			Internal				
Radiator core type (cellular, tube and fin, other)			Tube and center				
Cooling system capacity	With heater (qt.)		9	13		17	16
	Without heater (qt.)		8	11		16	15
	Opt. equipment-specify (qt.)		9	13		17	16
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	1.75				
	Upper	Number and type (molded, straight)	One, molded				
		Inside diameter	1.50				
	By-pass	Number and type (molded, straight)	None				
		Inside diameter	None				
Fan	Number of blades & spacing		4-Staggered				
	Diameter		16	17.62			
	Ratio-fan to crankshaft rev.		.949:1				
	Fan cutout type		None				
	Bearing type		Double row ball				
*Drive belts (indicate belt used by letter)	Fan		A	A		E	F
	Generator or alternator		A	A		E	F
	Water Pump		A	A		E	F
	Power Steering		B	B		G	
	Air Conditioning		-	C		H	
	Air Injection		D	D		E-Manual Trans.	
						F-Automatic Trans.	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	←				38°-42°						→
Nominal length (SAE)	39.00	49.50	54.75	50.00	47.50	44.25	36.00	54.33			
Width	←				.380						→

AMA Specifications—Passenger Car

Page 12

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

MODEL	153 Cu In 90 HP	230 Cu In 140 HP	250 Cu In 155 HP	307 Cu In 200 HP	350 Cu In 255 & 300 HP

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980032	1980030
	Voltage Rtg. & Total Plates		12 volt-54 plates	
	SAE Designation & Amp. Hr. Rtg.		45 amp. hr @ 20 hr. rate	61 amp.hr.@ 20 hr. rate
	Location		Right side front of engine compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco-Remy	
	Model		1100836	1100834
	Type and rating		Diode rectified-37 amps	
	Output at engine idle (neutral)		13 amps	
	Ratio–Gen. to Cr/s rev.		2&6:1	
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		1108365(a)	1108367	1108361(b)
	Rotation (drive end view)		Clockwise		
Motor control	Switch (solenoid, manual)		Solenoid		
	Starting procedure		3-Spd & 4-Spd-Place gearshift lever in neutral & depress clutch AUTOMATIC-Place gearshift lever in N or P position INITIAL START-Press accelerator to floor and release. (c) 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	153		
		Flywheel – Auto.	153		
	Flywheel tooth face width	Manual	.4010 - .4130		
		Auto.	.4010 - .4130		

(a) - 1108366 when used with automatic transmission and 153 Cu. In. Engine

(b) - 1108338 when used with Powerglide transmission and 300 HP engine
1108420 when used with Turbo Hydra-Matic transmission and 300 HP engine

(c) - On 153 Cu. In. - Pull hand choke knob fully out.

AMA Specifications—Passenger Car

Page 13

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (*)

MODEL			153 Cu In 90 HP	230 Cu In 140 HP	250 Cu In 155 HP	307 Cu In 200 HP	350 Cu In 255 & 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	
	Amps	Engine stopped	4.0				
		Engine idling	1.8				
Distributor	Make						
	Model		REFER				
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)					
		Intermediate points deg.@rpm	TO				
		Max. deg.@rpm					
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)					
		Intermediate points, deg.@in. Hg.	PAGE				
		Max. deg. in. Hg.	NINE				
	Breaker gap (in.)		.019				
	Cam angle (deg.)		31-34			29-31	
	Breaker arm tension (oz.)		19-23				
Timing	Crankshaft deg.@rpm		Refer to page nine				
	Mark location		Torsional damper				
Spark Plug	Make		AC Spark Plug				
	Model		ACR46N			ACR45S	ACR44S
	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 cables

AMA Specifications—Passenger Car

Page 14

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

MODEL	L4-153 90 HP	L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255 HP	V8-350 300 HP
Speedometer – Type	Dial					
Speedometer – Trip odometer (yes,no)	NA					
Charge indicator – type	Tell-Tale					
Temperature indicator – type	Tell-Tale					
Oil pressure indicator – type	Tell-Tale					
Fuel indicator – type	Electric gauge					
Other	Refer to page 23					
Windshield wiper – Type – Standard	Electric, two-speed					
Windshield wiper – Type – Optional	None					
Windshield washer – Type – Standard	Push-button					
Windshield washer – Type – Optional	None					
Horn – Type	Vibrator					
Horn – Number used	One					
Horn – Amp draw (each)	(Low note) 4.5-6 @ 12.5 Volts					

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	Chevrolet single dry disc				Chevrolet, single dry disc centrifugal	
Type pressure plate springs	Diaphragm				(a)	
Total spring load (lb.)	1350-1450	1650-1850		1900-2200(b)	2100-2300	2450-2750
No. of clutch driven discs	One					
Clutch facing – Material	Woven type asbestos					
Clutch facing – Outside & inside dia.	9.12 x 6.12		10.34 x 6.50			11.0 x 6.5
Clutch facing – Total eff. area (sq.in.)	71.82		101.54			123.7
Clutch facing – Thickness	.135					.140
Clutch facing – 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					

(a) Diaphragm, bent finger design

(b) 2100-2300 with 4-speed transmission

AMA Specifications—Passenger Car

Page 15

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

MODEL	L4-153 L6-230 L6-250	V8-307 Cu. In.	V8-350 Cu. In.

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional with V-8 engines
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Optional

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3-Spd 3	3-Spd 3	4-Spd 4	HD-3-Spd 3	4-Spd 4
Transmission ratios	In first	2.85	2.85	2.85	2.42	2.52
	In second	1.68	1.68	2.02	1.58	1.88
	In third	1.00	1.00	1.35	1.00	1.46
	In fourth	--	--	1.00	--	1.00
	In reverse	2.95	2.95	2.85	2.41	2.59
Synchronous meshing, specify gears		All forward speeds				
Shift lever location		Steering column 3-Speed Floor Mounted HD 3-Speed and 4-Speed				
Lubricant	Capacity (pt.)	3			3.5	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)		
Manual lockout (yes, no)		
Downshift accelerator control (yes, no)		NOT
Minimum cut-in speed		
Gear ratio		
Lubricant	Capacity (pt.) (Overdrive only)	AVAILABLE
	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 CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

MODEL	L4-153	L6-230 L6-250 V8-307	V8-350	L4-153	L6-230 L6-250	L6 230 & 250 V8 307 & 350

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		POWERGLIDE		TORQUE-DRIVE		TURBO HYDRA-MATIC
Type describe		Torque converter with planetary gears				
Selector location		Steering column; floor mounted when used with floor console with bucket seats				
List gear ratios Selector Pattern and indicate which are used in each selector position		P-Park R-1.82 N-Neutral D-1.82-1.00 L-1.82	P-Park R-1.76 N-Neutral D-1.76-1.00 L-1.76	P-Park R-1.82 N-Neutral Hi-1.82-1.00 1st-1.82		P-Park R-1.93 N-Neutral D-2.52-1.52-1.00 L2-2.52-1.52 L1-2.52
Max. upshift speed–drive range						
Max. kickdown speed–drive range						
Torque convertor	Number of elements	3				
	Max. ratio at stall	2.40	2.10	2.40	2.10	2.10
	Type of cooling (air, liquid)	Air	Water	Air & Water		Air
	Nominal diameter	11.00	11.75	11.00	11.75	11.75
Lubricant	Capacity–refill (pt.)	6	6.5	6		5
	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 52.50 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)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (a)

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.		1.502-1.503
Universal joints	Make and Mfg. No.		Chevrolet 3841935
	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)			Leaf spring
Torque taken through (torque tube or arms, springs)			Leaf spring

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-floating, overhung pinion gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.50
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 (8.125 ring gear) 4.0 (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		2.56	2.73	3.08	3.36	3.07	3.31	3.55
No. of teeth	Pinion	16	15	12	11	14	13	11
	Ring gear	41	41	37	37	43	43	39
Ring Gear O.D.		8.125				8.875		

AMA Specifications—Passenger Car

Page 18

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

MODEL

DRIVE UNITS – WHEELS

Type & material			Short spoke disc, steel
Rim (size & flange type)		Std.	14 x 5J
		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, ply rating, & ply		7.35 x 14-2 ply (4 ply rating)
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	
		Rear	
	Rev./Mile at 50 MPH		791
Optional	Size, ply rating, & ply		E70 x 14-2 ply (4 ply rating) (350 Cu. In. engines only)

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)	

AMA Specifications—Passenger Car

Page 19

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

BRAKES – SERVICE

MODEL				STANDARD	FRONT DISC (Opt)
Type (drum) or (disc & no. of pistons)				Drum (front-finned)	Disc-front
Self adjusting (std., opt., N.A.)				Standard	
Special Valving	Type (proportion, delay, metering, other)			Metering	
Power brake make & type (remote, int., etc.)		Std.		--	Standard (a)
		Opt.		Optional (a)	--
Effective area (sq. in.) *				155.2	114.0
Gross lining area (sq. in.) **				168.9	118.1
Swept area (sq. in.) ***				268.8	332.4
Front to Rear Effectiveness Relationship					
Drum	Diameter (nominal)	Front		9.5	--
		Rear		9.5	9.5
	Type and material			Composite, cast iron; steel web	Cast iron
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			1.125	2.068
	Rear			.875	.875
Master Cylinder	Bore			1.00	1.00
	displacement distribution	Front	%	39 cu. in. @ 1500 PSI	46 cu. in. @ 1500 PSI
		Rear	%	24 cu. in. @ 1500 PSI	31 cu. in. @ 1500 PSI
Pedal arc ratio				6.20	3.82
Line pressure at 100 lb. pedal load					
Shoe Clearance	Front			Self adjusting	
	Rear			Self adjusting	
Brake lining	Bonded or riveted			Bonded	Riveted
	Front Wheel	Material		Molded asbestos	
		Size (length x width x thickness)	Prim. or outboard	9.01 x 2.5 x .17	5.96 x 2.21 x .41
			Second. or inboard	9.75 x 2.5 x .20	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	9.01 x 2.0 x .17
			Second. or inboard	9.75 x 2.0 x .20	9.75 x 2.0 x .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.)

(a) Delco Moraine vacuum power unit; integral

AMA Specifications—Passenger Car

Page 20

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

MODEL

STEERING

Manual (std., opt., NA)				Standard energy absorbing steering column
Power (std., opt., NA)				Optional with 11300 & 11400 models only
Adjustable steering wheel (tilt, swing, other)		Type and description		Not available
		(std., opt., NA)		
Wheel diameter		Manual		Oval 16.25 x 15.50
		Power		Same as manual
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		40.9
		Curb to curb (l. & r.)		NA
	Inside rear	Wall to wall (l. & r.)		NA
		Curb to curb (l. & r.)		NA
Manual	Gear	Type		Semi-reversible, recirculating ball stud
		Make		Saginaw Steering
		Ratios	Gear	24:1
			Overall	28.3:1
	No. wheel turns (stop to stop)			4.8
Power	Type (coaxial, linkage, etc.)			Integral, with vane type pump driven by Crankshaft pulley
	Make			Saginaw Steering
	Gear	Type		Same as manual
		Ratios	Gear	17.5:1
			Overall	20.7:1
	Pump driven by			Crankshaft pulley
	No. wheel turns (stop to stop)			3.5
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Rear
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two
Steering Axis	Inclination at camber (deg.)			8 1/4 to 9 1/4
	Bearings (type)	Upper		Ball stud with non-metallic bearings
		Lower		Ball stud with non-metallic and sintered iron bearings
		Thrust		None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			O to P-1
	Camber (deg.)			N-1/4 to P-3/4
	Toe-in (outside track inches)			1/8 to 1/4
Steering spindle & joint type				Steering Knuckle
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

AMA Specifications—Passenger Car

Page 21

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

MODEL

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling		Front stabilizer bar with 11400 models only
Provision for brake dip control		Front suspension geometry
Provision for acc. squat control		Rear suspension geometry
Special provisions for car jacking		
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.)	11.09 x 3.63; 94.77 x .565
	Spring rate (lb. per in.)	320
	Rate at wheel (lb. per in.)	105
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel .687

SUSPENSION – REAR

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

Multiple leaf springs with 350 cu. in. engines

AMA Specifications—Passenger Car

Page 22

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

MODEL

FRAME

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

BODY – MISCELLANEOUS INFORMATION

		COUPE	SEDAN
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 hand of instrument panel pad	
Engine No. location		6 Cyl.-Right side of cylinder block, rear of distributor 8 Cyl.-Front right side of cylinder block	
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	
	Rear	None	
Seat cushion type	Front	Formed wire and foam pad	
	Rear	Formed wire and cotton	
	3rd seat	None	
Seat back type	Front	Formed wire and cotton	
	Rear	Formed wire and cotton	
	3rd seat	None	
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)		Curved-tempered plate	
Windshield glass exposed surface area		1050.8	1111.9
Side glass exposed surface area		1187.2	1242.6
Backlight glass exposed surface area		1144.2	1005.7
Total glass exposed surface area		3382.2	3360.2

AMA Specifications—Passenger Car

Page 23

MAKE OF CAR CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

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)		NA
Front seat head restrainer (R-L or both)		Standard
Radios (specify type as well as availability)		Optional - Pushbutton AM Optional - Pushbutton AM - FM Optional - AM-FM Stereo radio
Rear seat speaker		Optional
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		Optional - Four - Season; GM-Chevrolet
Speed warning device		Optional
Speed control device		NA
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Optional
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional
Map lamp		NA
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	To be provided
		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 CHEVY NOVA MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (•)

WEIGHTS

	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
153 Cu.In.4 Cyl.Engine	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
Model									
2-Door Coupe	1490	1420	2910					110.2	18.8
4-Door Sedan	1510	1430	2940					110.2	18.8
230 Cu.In.6 Cyl.Engine									
2-Door Coupe	1610	1410	3020					110.2	26.3
4-Door Sedan	1625	1425	3050					110.2	26.3
307 Cu.In.V-8 Engine									
2-Door Coupe	1720	1445	3165					110.2	32.3
4-Door Sedan	1735	1455	3190					110.2	32.3

Accessories & Equipment Differential Weights				Remarks
250 Cu.In. 6 Cyl.Engine	+16	+ 1	+ 17	RPO L22
350 Cu.In. V-8 Engine	+43	+60	+103	RPO LM1
350 Cu.In. V-8 Engine	+43	+60	+103	RPO L48 (Coupe only)
H.D. 3-Spd.Man.Trans.	+23	+ 7	+ 30	RPO MC1
Torque-Drive Trans.	- 5	11	+ 6	4-Cyl.
	-31	11	- 20	6-Cyl.
Powerglide Trans.	3	4	+ 7	4-Cyl.
	-15	0	- 15	6-Cyl.
	-10	1	- 9	307 V-8
	- 5	1	- 4	350 V-8
Turbo Hydra-Matic Trans	20	6	+ 26	Chevrolet built
Air Conditioning	91	7	+ 98	
Power Brakes	9	2	+ 11	
Front Disc Brakes	24	8	+ 32	
4-Speed Transmission	15	4	+ 19	
Power Steering	29	1	+ 30	
Tape Player	13	5	+ 18	
Radio, Push Button	6	2	+ 8	
Radio Stereo	9	4	+ 13	

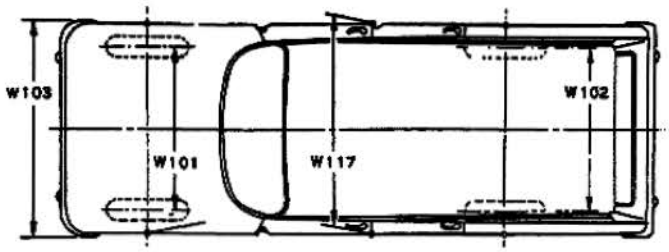
*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

AMA Specifications—Passenger Car

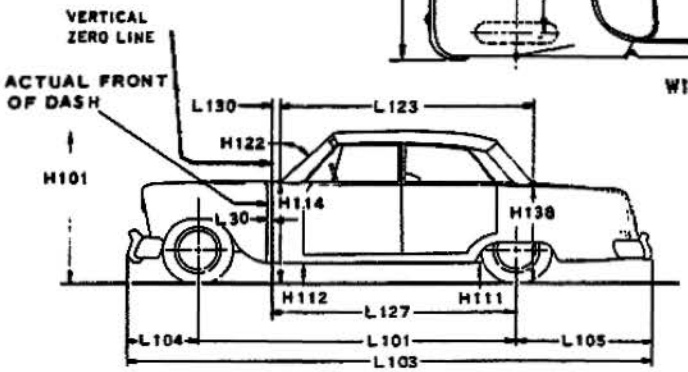
CAR AND BODY DIMENSIONS

KEY SHEET

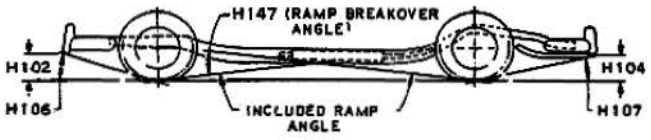
EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

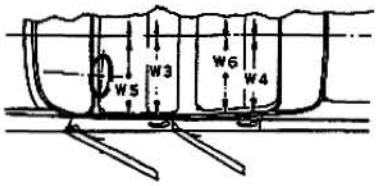


LENGTH & HEIGHT

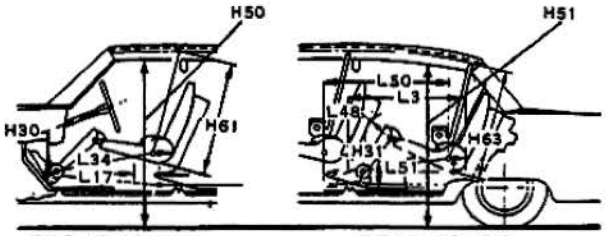


GROUND CLEARANCE

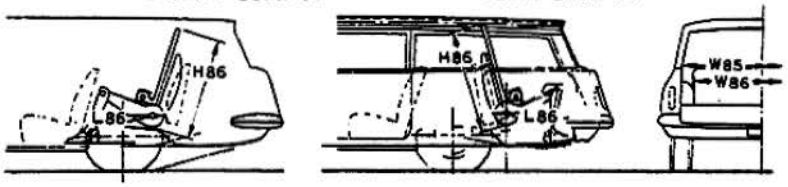
INTERIOR CAR AND BODY DIMENSIONS



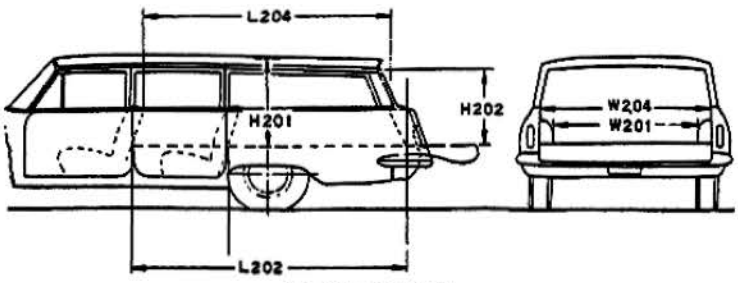
WIDTH



FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

AMA Specifications—Passenger Car

Page 26

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