

AMA Specifications – Passenger Car

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MAKE OF CAR PONTIAC **MODEL YEAR** 1960 **DATE ISSUED** 8-5-59 **REVISED** 4-8-60

COMPANY PONTIAC MOTOR DIVISION OF GENERAL MOTORS CORPORATION

MODEL NAME	SYMBOL	MODEL NAME	SYMBOL
CATALINA	60-21	STAR CHIEF	60-24
VENTURA	60-23	BONNEVILLE	60-27*
		BONNEVILLE	60-28

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NOTES:

- The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
- UNLESS OTHERWISE INDICATED:
 - Specifications apply to the standard model without optional equipment. Significant deviations are noted.
 - Specifications apply basically to 4-door sedan or equivalent.
 - Nominal design dimensions are used throughout these specifications.

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE	
Wheelbase (L-101)	23	122		124 (a)		
Tread	Front (W-101)			64		
	Rear (W-102)			64		
Maximum Overall Dimensions	Length (L-103)	213.7		220.7 (b)		
	Width (W-103)			80.7		
	Height (H-101)	56.4 (c)	54.6 (d)	56.6 (c)	54.8 (d)	
Transmission—(Specify trade name - opt., not available)	Manual	Synchronesh				
	Overdrive	None				
	Automatic	Hydra-Matic				
Axle ratio	Manual	3.23:1				
	Overdrive	None				
	Automatic	3.08:1				
Tire size	16	8.00 x 14 - 4 Ply				
Engine	Type, no. cyl., valve arr.	90° V., 8, In-Head				
	Fuel system (Carb. or Ing.)	Carburetor				
	Bore and stroke	4.06 x 3.75				
	Piston displ., cu. in.	389				
	Std. compression ratio	8.6:1 (e)				
	Max. bhp at engine rpm	2	215 @ 3600 (e)		235 @ 3600 (e)	
	Max. torque at rpm	2	390 @ 2000 (e)		400 @ 2000 (e)	

* Built with station wagon body only.

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- (a) Bonneville station wagon has 122 in. wheelbase.
- (b) Bonneville station wagon has 213.7 overall length.
- (c) 2 & 4 Door sedans only - other types not shown.
- (d) 4 Door Hardtop only - other types not shown.
- (e) Standard Engine - see page 2 supplement for available engine and trans. combinations.

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MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE			

ENGINE—GENERAL

Type, no. cyls., valve arr.	90°V., 8, In-Head		
Bore and stroke	4.06 x 3.75		
Piston displacement, cu. in.	389		
Bore spacing (C/L to C/L)	4.62		
No. system	L. Bank	1 - 3 - 5 - 7	
(front to rear)	R. Bank	2 - 4 - 6 - 8	
Firing order	1 - 8 - 4 - 3 - 6 - 5 - 7 - 2		
Compres. ratio (nominal)	Standard	8.6:1	
	Optional	10.25:1 and 10.75:1	
Cylinder Head Material	Standard	Alloy Cast Iron	
	Optional	None	
Cylinder Sleeve	Wet, dry, none	None	
Number of mounting points	Front	Two	
	Rear	One	
Engine installation angle	5° 14'		
Taxable horsepower	Dia. ² x No. Cyl. 2.5	52.8	
Published max. bhp at engine RPM*	Standard	215 @ 3600	235 @ 3600
	Optional	See Page 2 Supplement	
Published max. torque* (lb. ft. @ RPM)	Standard	390 @ 2000	400 @ 2000
	Optional	See Page 2 Supplement	
Recommended fuel	Standard	Regular	
regular - premium	Optional	Premium	
Recommended idle speed (neutral)	480 - 500 RPM (a)		

ENGINE—PISTONS

Material	Aluminum Alloy
Description and finish	Cam Ground Slipper Type With Steel Struts Or Thermal Control Band - Piston Tin Plated
Weight (piston only) oz.	23.875 to 24.065 Oz.

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

(Continued)

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(a) In Drive if Hydra-Matic - Air Conditioned Cars:
540 - 560 RPM with air conditioning turned off.

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MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED 4-8-60**POWER TEAMS**

(Indicate whether standard or optional)

SERIES	ENGINE				TRANSMISSION	AXLE RATIO (Std. first)
	Displacement	Carburetor	Compression Ratio	BPH		
Catalina 21						
Ventura 23						
Star Chief 24						
Bonneville 27 & 28						
STANDARD ENGINES - TEMPEST 425:						
21, 23 & 24	389	2 Bbl.	8.6:1	215	Synchromesh	3.23:1, 3.08:1, 3.42:1
27 & 28	389	4 Bbl.	8.6:1	235	Synchromesh	3.23:1, 3.08:1, 3.42:1
OPTIONAL ENGINES:						
TEMPEST 425E - ECONOMY HYDRA-MATIC						
21, 23 & 24	389	2 Bbl.	8.6:1	230	Hydra-Matic	2.69:1 (3.08:1 if A/C)*
27 & 28	389	2 Bbl.	8.6:1	230	Hydra-Matic	2.69:1 (3.08:1 if A/C)*
TEMPEST 425 - STANDARD HYDRA-MATIC						
21, 23 & 24	389	2 Bbl.	10.25:1	283	Hydra-Matic	3.08:1, 2.87:1, 3.23:1
27 & 28	389	4 Bbl.	10.25:1	303	Hydra-Matic	3.08:1, 2.87:1, 3.23:1
TEMPEST 425 - 4-BARREL CARBURETOR OPTION						
21, 23 & 24	389	4 Bbl.	8.6:1	235	Synchromesh	3.23:1, 3.08:1, 3.42:1
21, 23 & 24	389	4 Bbl.	10.25:1	303	Hydra-Matic	3.08:1, 2.87:1, 3.23:1
TEMPEST 425 - TRIPLE CARBURETOR OPTION						
All Series	389	3-2 Bbl.	10.75:1	318	H.D. Synchromesh	3.23:1, 3.08:1, 3.42:1
All Series	389	3-2 Bbl.	10.75:1	318	Hydra-Matic	3.08:1, 2.87:1, 3.23:1
TEMPEST 425A - 4-BARREL CARBURETOR						
All Series	389	4 Bbl.	10.75:1	333	H.D. Synchromesh	3.42:1 (3.64:1 spec. order)
All Series	389	4 Bbl.	10.75:1	333	Hydra-Matic	3.23:1
TEMPEST 425A - TRIPLE CARBURETOR						
All Series	389	3-2 Bbl.	10.75:1	348	H.D. Synchromesh	3.42:1 (3.64:1 spec. order)
All Series	389	3-2 Bbl.	10.75:1	348	Hydra-Matic	3.23:1
TEMPEST 425 - HEAVY DUTY SYNCHROMESH TRANSMISSION						
21, 23 & 24	389	2 Bbl.	8.6:1	215	H.D. Synchromesh	3.23:1, 3.08:1, 3.42:1
27 & 28	389	4 Bbl.	8.6:1	281	H.D. Synchromesh	3.23:1, 3.08:1, 3.42:1

* Air Conditioned

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MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE			

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.024 - .033
	Skirt	Top	.0007 - .0021*
		Bottom	.0000 - .0018*
Ring groove depth	No. 1 ring		.207 - .215
	No. 2 ring		.197 - .205
	No. 3 ring		.179 - .188
	No. 4 ring		None

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, type, coating, etc.	Cast Iron, Taper Faced Rings No. 1 With Thick Chrome, No. 2 With Lubrite Finish	
	Width	.078	
	Gap	No. 1 .021, No. 2 .019	
Oil	Description - material, type, coating, etc.	Segmented Spring Steel With Chrome Face On Rails	
	Width	.184	
	Gap	.025	
Expanders	Crimped & Ventilated Spring Steel - In Oil Ring Groove		

ENGINE-PISTON PINS

Material	SAE 1117 Modified Steel		
Length	3.25		
Diameter	.9802		
Type	Locked in rod, in piston, floating, etc.	Locked In Rod	
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston	.0003 - .0005	
	In rod	Press Fit	
Direction & amount offset in piston	To Right - .063		

ENGINE-CONNECTING RODS

Material	SAE 1139 or 1335 Modified Steel		
Weight (oz.)	29.34		
Length (center to center)	6.625		
Bearing	Material & Type	Durex 100-A Steel Backed - Removable, Precision	
	Overall length	.88	
	Clearance (limits)	.0005 - .0025	
	End play	.006 - .011 (Total For Two)	

* Pistons Selected for .0007 - .0013 clearance 1.18 below top of skirt.

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MODEL _____ CATALINA VENTURA STAR CHIEF BONNEVILLE

ENGINE—CRANKSHAFT

Material		Cast Pearlitic Malleable Iron		
Vibration damper type		Rubber Floated Weight		
End thrust taken by bearing (No.)		4		
Crankshaft end play		.0035 - .0085		
Main bearing	Material & type		Durex 100-A* Steel Backed - Removable, Precision	
	Clearance		.0005 - .0030 (Except .0025 Max. on No. 1)	
	Journal dia. and bearing overall length	No. 1	3.00 x .94	
		No. 2	3.00 x .94	
		No. 3	3.00 x .94	
		No. 4	3.00 x 1.15	
		No. 5	3.00 x 1.59	
No. 6		None		
Dir. & amt. cyl. offset		None		
Crankpin journal diameter		2.25		

ENGINE—CAMSHAFT

Location		Between Cylinder Banks		
Material		Hardened Alloy Cast Iron		
Bearings	Material	High Lead Babbitt on Steel		
	Number	5		
Type of Drive	Gear or chain		Chain	
	Crankshaft gear or sprocket material		Carburized and Hardened Steel	
	Camshaft gear or sprocket material		Cyanide Hardened Alloy Iron	
	Timing chain	No. of links	60	
		Width	.88 (Morse) - 1.00 (Link Belt)	
		Pitch	.375	

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard	
Valve rotator, type (intake, exhaust)		None	
Rocker ratio		1.5:1	
Operating tappet clearance (indicate hot or cold)	Intake	0	
	Exhaust	0	
Timing marks on flywheel, damper, other		On Crankshaft Pulley Hub	

* M-400 in lower half of No. 4.

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 MODEL Std. 425 Engines 425A Engines
- All Series HM 425 Engines HM 425E Engine SM or HM

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	14	30	22	29
		Closes (°ABC)	58	63	67	74
		Duration - deg.	252	273	269	283
	Exhaust	Opens (°BBC)	48	77	63	82
		Closes (°ATC)	24	25	27	31
		Duration - deg.	252	282	270	293
	Valve opening overlap		38	55	49	60
Intake	Material		Manganese - Moly Steel With Aluminum Treatment on Seat			
	Overall length		5.32*			
	Actual overall head dia.		1.88			
	Angle of seat & face		30° Seat - 29° Face			
	Seat insert material		Not Used			
	Stem diameter		.34			
	Stem to guide clearance		.0021 To .0038			
	Lift		.33	.40	.40	
	Outer spring press. and length	Valve closed (lb. @ in.)	80 @ 1.53	60 @ 1.52		62 @ 1.52 (a)
		Valve open (lb. @ in.)	171 @ 1.20	114 @ 1.12		131 @ 1.12 (a)
	Inner spring press. and length	Valve closed (lb. @ in.)	Not Used	26 @ 1.48		32 @ 1.48 (a)
		Valve open (lb. @ in.)	Not Used	64 @ 1.08		96 @ 1.08 (a)
	Exhaust	Material		T-XCR Steel With Aluminum Treatment On Seat		
Overall length		5.30**				
Actual overall head dia.		1.60				
Angle of seat & face		45° Seat - 44° Face				
Seat insert material		Not Used				
Stem diameter		.34				
Stem to guide clearance		.0026 To .0043				
Lift		.33	.40	.40		
Outer spring press. and length		Valve closed (lb. @ in.)	80 @ 1.53	60 @ 1.52		62 @ 1.52 (a)
		Valve open (lb. @ in.)	171 @ 1.20	114 @ 1.12		131 @ 1.12 (a)
Inner spring press. and length		Valve closed (lb. @ in.)	Not Used	26 @ 1.48		32 @ 1.48 (a)
		Valve open (lb. @ in.)	Not Used	64 @ 1.08		96 @ 1.08 (a)

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	Metered Jet
	Cylinder walls	Metered Jet

* Length increases to 5.35 with Triple Carburetor or Tempest 425A Engine Option.

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** Length increases to 5.34 with Triple Carburetor or Tempest 425A Engine Option.
 (a) Also used on SM Transmission Triple Carburetor Option.

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 MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear		
Normal oil pressure (lb. @ engine rpm)	30 To 40 Above 2600 RPM		
Oil pressure sending unit (elect. or mech.)	Electric		
Type oil intake (floating, stationary)	Floating Screen		
Oil filter system (full flow, partial, other)	Full Flow		
Filter replacement (element, complete)	Complete		
Capacity of crankcase, less filter-refill (qt.)	5		
Oil grade recommended (SAE viscosity and temperature range)	10° F. to 110° F.	20W	10W-30
	10° F. Below Zero to 95° F. Above Zero	10W	10W-20
	10° F. Below Zero and Colder	5W	5W-20
Engine Service Requirement (MM, MS, etc.)	Petroleum Based Oil For Service MS or DG		

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single With Cross-over - Dual Optional		
Muffler No. & type (reverse flow, straight thru, separate resonator)	One Reverse Flow With Single Exhaust System Two Reverse Flow With Optional Dual System		
Exhaust pipe dia. (O.D.) wall thickness	Branch	2.00 x .076	
	Main	2.25 x .076 Std. or 2.00 x .076 With Dual Option (c)	
Tail pipe diameter (O.D. & wall thickness)	2.00 x (a) Std. or 1.75 x (b) with Dual Option		

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.	Carburetor		
Fuel Tank	Capacity (gals.)	23	
	Filler location	Below Rear Deck Lid Opening	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Left Front Of Engine	
	Pressure range	5.25 To 6.50	
Vacuum booster (std., optional, none)	None		
Fuel Filter	Type	Plastic Fabric in Tank - Disposable Pleated Paper above Fuel Pump	
	Locations	(See Above)	
Carburetor	Make & Model No.	Rochester 7015073 - SM Trans. (d) Rochester 7015070 - HM Trans. (d)	Carter - AFB2975S SM(d) AFB2976S HM(d)
	Number of carbs., bbls. per carb. & type	One - 2 Bbl. - Downdraft (d)	One - 4 Bbl. Downdraft (d)
	Barrel size	1.438 with SM Trans. - 1.688 with HMT (d)	1.438 Pri. - 1.688 Sec.
	Choke type	Automatic - Integral	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air clnr. type	Standard Optional	Oiled Element Paper Element

- (a) .054 (uncoated) Catalina & Ventura: .048 Aluminized on Star Chief and Bonneville. Rev. Form 3-59
- (b) .042 Aluminized.
- (c) Special Dual Exhaust System Used With Tempest 425-A Engine has 2.25 O. D. Exhaust Pipes and 2.00 O. D. Tail Pipes.
- (d) See Supplement to Page 6 for Optional Carburetors.

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SUPPLEMENTARY INFORMATION

MODEL As Listed Below.

ENGINE FUEL SYSTEM OPTIONS:

FOUR-BARREL CARBURETOR FOR CATALINA, VENTURA & STAR CHIEF MODELS

Make and Model Number	Carter AFB2976S
Available On	Cars With SM or HM Trans.
Number Used, Bbls. Per Carb. & Type	One - 4 BBL. - Downdraft

TRIPLE TWO-BARREL CARBURETORS FOR ALL MODELS

Make	Rochester
Model Number -	
Front - All Cars	7013063
Center - Synchronesh Transmission Cars	7015068
Center - Hydra-Matic Transmission Cars	7015076
Rear - All Cars	7013065
Number Used	3 (As Above)
Barrel Size	1.438 Center - 1.688 Ends
Choke Type	Integral (Center Carb. Only)

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MODEL ALL MODELS

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure - Vented			
Radiator cap relief valve pressure		12 To 15 P. S. I. (4)			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at (°F)	170° F.			
Water pump	Type (centrifugal, other)	Centrifugal			
	Number of pumps	One			
	Drive (V-belt, other)	V-Belt			
	Bearing type	Sealed Ball Bearing			
By-pass recirculation type (internal, external)		External			
Radiator core type (cellular, tube and fin, other)		Tube and Center			
Cooling system capacity	With heater (qt.)	22.2			
	Without heater (qt.)	21.2			
	Opt. equipment-specify (qt.)	22.1 (1), 21.1 (2), 22.1 (3)			
Water jackets full length of cylinder (yes, no)		Yes			
Water all around cylinder (yes, no)		Yes			
Radiator hose:	Lower	Number and type (molded, straight)	One - Molded		
		Inside diameter	2.00		
	Upper	Number and type (molded, straight)	One - Molded		
		Inside diameter	1.75		
	By-pass	Number and type (molded, straight)	None		
		Inside diameter	None		
Fan	Number of blades & Spacing		Four - 76° and 104°		
	Diameter		19.0		
	Ratio-fan to crankshaft rev.		.88 To 1		
	Fan cutout type		None		
	Bearing type		See Water Pump		
*Drive belts (indicate belt used by letter)	Fan	A	A & B	D & E	D & F
	Generator	A	A	D	D
	Water Pump	A	A & B	D & E	D & F
	Power Steering		B		F
	Air Conditioning			C	C

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*Drive Belt Dimensions	A	B	C	D	E	F
Angle of V	36°	36°	36°	36°	36°	36°
Nominal length (SAE)	51.8	60.0	56.8	58.1	46.2	61.0
Width	.38	.38	.47	.38	.50	.50

- (1) With Hydra-Matic and Heater.
- (2) With Hydra-Matic less Heater.
- (3) With Hydra-Matic, Heater, and Air Conditioning.
- (4) 14 to 17 P. S. I. with 425E Engine, Heavy Duty Cooling System, or Air Conditioning.

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 MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco 458 (a) or 558 (b)	
	Voltage Rtg. & Total Plates	12 & 54 (a) or 12 & 66 (b)	
	SAE Designation & Amp Hr. Rtg	2 SMB - 53 (a) or 2 SMD - 61 (b) (At 20 HR. Rate)	
	Location	Under Hood - Left Side	
	Terminal grounded	Negative	
Generator	Make	Delco-Remy	
	Model	1102203 (c)	
	Type	Shunt Wound	
	Ratio—Gen. to Cr/s rev.	2.60:1	
	Gen. cut-in (hot)—engine rpm	480	
Regulator	Make	Delco-Remy	
	Model	1119263	
	Type	Voltage and Current Regulator	
	Cutout relay	Closing voltage @ generator rpm	11.8 - 13.6 @ 1250
		Reverse current to open	Not Specified
	Regulated	Voltage	14.0 V. at Room Temperature
		Current	30 a. at Room Temperature (c)
Voltage test conditions	Temperature	Approx. 125° F. Around Regulator	
	Load	Battery or 10 Ampere Max.	
	Other		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco-Remy	
	Model	1107661 (a) or 1107777 (b)	
	Rotation (drive end view)	Clockwise	
	Engine cranking speed	Not Available	
	Test conditions	Room Temperature	
	Lock test	Amps	Lock Test Not Recommended
		Volts	-
		Torque (lb. ft.)	-
	No load test	Amps	100 Max. With 1107661 - 120 Max. With 1107777
		Volts	10.6
RPM (min.)		3600 With 1107661 - 3900 With 1107777	
Motor control	Switch (solenoid, manual)	Solenoid	
	Starting procedure	Place gearshift lever in neutral and depress clutch*. Depress accelerator pedal to floor once and release (with cold engine) - hold accelerator pedal about half way down (with warm engine). Turn ignition key to right to engage starter, release as soon as engine starts.	

- (a) With Regular Fuel (8.6:1 C. R.) Engines. Rev. Form 3-59
 (b) With Premium Fuel (10.25:1 or 10.75:1 C. R.) Engines.
 (c) Cars with Circ-L-Aire Heater equipped with 1102200 35a. generator and 1119264 reg.
 * With Hydra-Matic use "Neutral" or "Park" (no clutch).

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 MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Sliding Gear - Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	176
Flywheel tooth face width		.50 Std. - .43 With Opt. Hydra-Matic Trans.	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy		
	Model		1115131		
	Amps	Engine stopped	3.4		
Engine idling		2.1			
Distributor	Make		Delco-Remy		
	Model		1110971 (a)	or	1110970 (b)
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	700	650	
		Intermediate points deg. @ rpm	12-16 @ 2100		14-18 @ 2000
		Max deg. @ rpm	22 @ 3600		20 @ 2900
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	6 To 8		8 To 10
		Intermediate points, deg @ in Hg	None		None
		Max. deg. in. Hg.	20 @ 13 To 15		20 @ 15 To 17
	Breaker gap (in.)		.016		
	Cam angle (deg.)		30° ± 2°		
Breaker arm tension (oz.)		19 To 23 Oz.			
Timing	Crankshaft deg. @ rpm.		6° At Hot Idle		
	Mark location		On Crankshaft Pulley Hub		
	Cylinder numbering system (see page 2)		L. Bank 1 - 3 - 5 - 7 (Front to Rear) R. Bank 2 - 4 - 6 - 8		
	Firing order (see page 2)		1 - 8 - 4 - 3 - 6 - 5 - 7 - 2		
Spark Plug	Make and model		AC 45S		
	Thread (mm)		14 MM		
	Tightening torque (lb. ft.)		15 - 25		
	Gap		.033 - .038		
Cable	Conductor type		Carbonized Thread		
	Insulation type		Neoprene		
	Spark plug protector		Butyl Rubber Boot		

ELECTRICAL—SUPPRESSION

Locations & type	Carbonized thread core secondary cables and front wheel static collectors on all cars. Generator condenser, voltage regulator condenser, and engine and engine exhaust system to body ground straps on all cars with radio.
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(a) With Regular Fuel (8.6:1 C. R.) Engines.
 (b) With Premium Fuel(10.25:1 C. R. or 10.75:1 C. R.) Engines.

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 MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Ammeter
Temperature indicator—type		Tell-Tale Lights ("Hot" & "Cold")
Oil pressure indicator—type		Tell-Tale Light
Fuel indicator—type		Electric
Other		None
Ignition switch	Identify positions in order and circuits controlled	Counter Clockwise To Stop - Accessory Circuits On. Vertical - "Off" Position - Key Removable In This Position Only. Clockwise - 40° From Vertical - Ignition and Accessory Circuits On. Clockwise - 70° From Vertical - Ignition and Starter Circuits Only.
	Provision for illumination	Yes
	Location	Left Center of Instrument Panel
Main lighting switch	Identify positions and lights controlled	Forward Position - Off, 1st Position - Instrument Lights, Parking Lights, Tail Lights, and License Light. 2nd Position - Instrument Lights, Head Lights, Tail Lights, and License Light. Clockwise Rotation Dims Instrument Lights to "Off".
Other light switches	Locations and lamps controlled (Std. Car) - For Accessory Switches - See Supplement to Page 10	Dimmer Switch - On Floor Left of Steering Column. Dome Light Switch - On Lamp Body & Front Door Frames of all exc. Bonneville model where front & rear switches are used. Direction Indicator Switch - On Steering Column Below Wheel. Stop Light Switch - On Brake Pedal Support. Courtesy Light - Bonneville Models - Same as Accessory install.
Other switches	Locations and devices controlled	(See Supplement to Page 10)
Windshield wiper	Make	Delco Appliance
	Type	Electric
	Vacuum booster provision	None
	Washer provision	Yes
Horn	Type	Solenoid
	Number used	Two
	Amp draw (each)	8 To 11 Amps @ 12.5V

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED _____**SUPPLEMENTARY INFORMATION****MODEL** ALL MODELS UNLESS OTHERWISE SPECIFIED**SWITCH LOCATIONS****ACCESSORY LIGHT SWITCHES:**

- Back-up Light - On lower end of steering column - combined with neutral safety switch on Hydra-Matic cars.
- Luggage Compartment and Utility Lamp - On lamp mounting bracket.
- Glove Compartment Light - On instrument panel behind compartment door.
- Parking Brake Signal - On parking brake pedal arm.
- Ash Tray Light - Controlled by main light switch.
- Courtesy Light - Manual at right center of instrument panel - automatic on front door frames.
- Spot Light - On L. H. or R. H. end of instrument panel.

OTHER SWITCHES:

- Radio - At center of instrument panel.
- Power Antenna Motor - Right center of instrument panel.
- Rear Seat Speaker - Left center of instrument panel.
- Heater Blower Motor - Control panel on right of steering column.
- Air Conditioning Blower Motor - Control panel on left of steering column.
- Windshield Wiper Motor - On instrument panel left of steering column.
- Windshield Washer - On wiper switch knob.
- Safeguard Speedometer - On instrument cluster below odometer.
- Power Seat Position Selector - L. H. end of seat.
- Neutral Safety Switch - On lower end of steering column (Hydra-Matic only).
- Underhood Light - In engine compartment on L. H. side of dash.
- Power Window Regulators - On each door trim pad - master switches on left front door.

AMA Specifications – Passenger Car

MAKE OF CAR	PONTIAC	MODEL YEAR 1960	DATE ISSUED 8-5-59	REVISED 4-8-60
MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 5, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement	2 #4001, 2 #4002 Horizontal	Air Cond. Panel Light	1 #57*	
Headlamp beam indicator	1 #57	Ash Tray & Lighter Light	3 #53*	
Parking	2 #1034	Hydra-Matic Shift Ind.	1 #57*	
Tail	2 #1034, 2 #67 (1)	Luggage Compt. & Utility	1 #1003*	
Stop	Same as #1034 Tail Light Bulbs	Parking Brake Signal Light	1 #57*	
Direction signal	Front	Same as Parking Light	Underhood & Utility	1 #93*
	Rear	Same as Stop Light	Safeguard Speedometer with	} 1 #57*
	Indicator	2 #57	Low Fuel Warning Light	
License plate	1 #67			
Instrument	6 #57			
Ignition lock	1 #53			
Back up	2 #1073*			
Dome	1 #1004 (2)			
Clock	From Instrument Lighting**			
Radio	1 #57*			
Glove compartment	1 #57*			
Oil Press. Tell-Tale	1 #57			
Eng. Temp. Tell-Tale	2 #57			
Courtesy Light	2 #89 (Std. on Catalina Conv. & All Bonneville - Accessory on Others)			
Compass Light	1 #112* (3)			
Heater Panel	1 #57*			
Spot Light	1 #4404*			

- (1) #67 Bulbs replaced by 2 #1034 on Star Chief & Bonneville.
- (2) 2 #90 on Star Chief and Bonneville Hardtops.
- (3) Compass uses penlight cell and bulb.
- ** Clock is accessory on Catalina - standard on all other models.

AMA Specifications – Passenger Car

MAKE OF CAR	PONTIAC	MODEL YEAR	1960	DATE: ISSUED	8-5-59	REVISED	
MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE			

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lights SFE-10 (a), Direction indicator same as (a).

Headlamp	22 C.B. (a)	Luggage Compt. & Utility Light	Same as (f)
Headlamp beam indicator	Same as (a)	Parking Brake Signal Light	14 Fuse (f)
Parking light	Same as (a)	Ash Tray & Lighter Light	14 Fuse (m)
Tail light	(a) plus 14 Fuse (b)	Air Conditioning Panel Light	Same as (d)
Stop light	14 Fuse (c)	Hydra-Matic Shift Indicator	Same as (d)
Direction indicator	Same as (c)	Underhood & Utility Light	Same as (k)
License plate light	Same as (b)	Safeguard Speedometer	Same as (j)
Instrument light	4 Fuse (d)	Power Antenna	14 Fuse (n)
Ignition light	Same as (d)	Cigar Lighter	See note (#)
Back up light	25 Fuse (e)	Windshield Washer	Same as (e)
Dome light	14 Fuse (f)	Air Conditioning Power	30 Fuse AGC(0)
Clock	14 Fuse (g)	Power Window Regulator	40 C.B. (p)
Clock light	Same as (d)	Power Seat Motor	Same as (p)
Radio Power	7.5 Fuse (h)	Current & Voltage Regulator	Special Fuse (q)
Glove compartment light	Same as (g)		
Radio Dial Light	Same as (d)		
Windshield Wiper	(e) Plus internal C.B. (i)		
Courtesy Light	Same as (f)		
Heater Panel	Same as (d)		
Heater Blower	14 Fuse (j)		
Spot Light	14 Fuse (k)		

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

	Tail	Lowest			
		Highest			
Height above ground to center of bulb (5 Passenger Load)	Stop		33.11		
	Backup		33.11		
	License, rear		26.34		
	Directional	Front		20.04	
		Rear		26.19	
	Headlamp	Inside		33.11	
		Outside*		26.33	
	Tail	Inside		26.33	
		Outside		27.75	
	Stop		33.48	33.48	
Distance from C/L of car to center of bulb	Backup		27.75 & 33.48		
	License, rear		31.96		
	Directional	Front		0	
		Rear		21.24	
	Headlamp	Inside		33.48	
		Outside*		27.75 & 33.48	
	Tail	Inside		28.20	
		Outside*		35.20	

* If single headlamps are used enter here.

(#) Optional lighters - one uses attached fuse, the other has integral C.B.

AMA Specifications – Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED _____
 MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Borg & Beck With Long Mfg. Driven Member Dry Semi-Centrifugal		
Type pressure plate springs	Coil		
Total plate pressure (lb.)	1940 Gross		
No. of clutch driven discs	One		
Clutch facing	Material	Woven Molded Asbestos	
	Outside & inside dia.	11.00 x 7.00	
	Total eff. area (sq.in.)	99.85	
	Thickness	.125	
	Engagement cushioning method	Spring Action of Offset Driven Plate Spokes	
Release bearing	Type & method of lubrication	Ball Thrust - Prepacked & Sealed	
Torsional damping	Methods: springs, friction material	Coil Springs and Metal to Metal Friction	

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	None
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	Three			
Transmission ratios	In first	2.21:1*		
	In second	1.32:1*		
	In third	1.00:1		
	In fourth	None		
	In reverse	2.51:1*		
Synchronous meshing, specify gears	Second and Third			
Lubricant	Capacity (pt.)	1.8 - Refill, 2.00 - Total*		
	Type recommended	Extreme Pressure		
	SAE viscosity number	Summer	EP 80 or 90	
		Winter	EP 80 or 90	
Extreme cold		EP 80 or 90		

*Gear ratio changes if car is equipped optional Triple Carburetors, Tempest 425A Engine or Heavy Duty Synchronesh Transmission - first gear 2.49:1, second gear 1.59:1, and reverse 3.15:1. Lubricant capacity 2.75 - total and refill.

AMA Specifications – Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED 4-8-60
 MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		None	
	Manual lockout (yes, no)		None	
	Downshift accelerator control (yes, no)		None	
	Minimum cut-in speed		None	
	Gear ratio		None	
	Lu- bri- cant	Capacity (pt.) (Overdrive only)		None
		Separate filler (yes, no)		None
		Type recommended		None
		SAE vis- cosity number	Summer	None
			Winter	None
Ext. cold	None			

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Hydra-Matic			
Type describe		Fluid Coupling With Planetary Gears			
Method of Selection (Lever, Push Button or other)		Lever			
Selector Pattern		P - N - \blacktriangle DR - DR \blacktriangle - LO - R			
List gear ratios Selector Pattern and indicate which are used in each selector position * Forced Upshift @ 48 MPH ** Forced Upshift @ 78 MPH		\blacktriangle DR 3.97:1 2.55:1 1.55:1 1.00:1	DR \blacktriangle 3.97:1 2.55:1 1.55:1 1.00:1**	LO 3.97:1 2.55:1 1.55:1* 1.00:1**	R 3.74:1
Max. upshift speeds—drive range		75 - Full Throttle			
Max. kickdown speeds—drive range		40 - Part Throttle - 70 - Full Throttle			
Torque converter	Number of elements	Converter Not Used			
	Max. ratio at stall	Converter Not Used			
Lubricant	Type of cooling (air, water)	Water			
	Capacity—refill (pt.)	18			
	Type recommended	GM Hydra-Matic Drive Fluid - Type A			
Special transmission features		Downshift 4th to 3rd: At Part Throttle Below 40 MPH, At Full Throttle 40 to 70 MPH, Automatic Upshift Protects Engine From Over-Speeding In All Forward Gears. Engine Braking In 3rd, Gear With Selector in DR \blacktriangle , In 2nd, Gear With Selector in LO. Safety Device prevents shifting into Reverse at forward speeds that would damage transmission. Shift Lever must be lifted over stop to enter "Park" position. Engine starting in "Park" position provided for.			

AMA Specifications – Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED 4-8-60
 MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

DRIVE UNITS—PROPELLER SHAFT

Number used		Two	
Type (exposed, torque tube)		Exposed	
Outer diameter x length* x wall thickness	Manual transmission	Front: 2.25 x 32.21 x .083 Rear : 2.25 x 33.36 x .083	Front: 2.25 x 32.21 x .083 Rear : 2.25 x 35.36 x .083
	Overdrive transmission	None	
	Automatic transmission	Front: 2.25 x 27.81 x .083 Rear : 2.25 x 33.36 x .083	Front: 2.25 x 27.81 x .083 Rear : 2.25 x 35.36 x .083
Inter-mediate bearing	Type (plain, anti-friction)	Ball	
	Lubrication (fitting, prepack)	Pre-Packed	
Universal joints	Make	Saginaw	
	Number used	Three	
	Type (ball and trunnion, cross, other)	Cross	
	Bearing	Type (plain, anti-friction)	Anti-Friction
Lubric. (fitting, prepack)		Pre-Packed	
Drive taken through (torque tube or arms, springs)		Arms	
Torque taken through (torque tube or arms, springs)		Arms	

DRIVE UNITS—REAR AXLE

Description - (incl. limited slip differential)		Semi-Floating Hypoid Rear Axle - Safe-T-Track (Limited Slip) Differential Available As Optional Equipment		
Drive Pinion Offset		1.75		
No. of differential pinions		2 Std. - 4 With Optional Safe-T-Track Unit		
Gear ratio and No. of teeth	Automatic transmission	3.08:1 (40:13) Std. (a) 2.87:1 (43:15) & 3.23:1 (42:13) Opt.		
	Overdrive trans.	None		
	Manual transmission	3.23:1 (42:13) Std. (b) 3.08:1 (40:13) & 3.42:1 (41:12) Opt.		
Ring gear pitch diameter & O.D.		9.25 P. D. - 9.27 O. D.		
Pinion adjustment (shim, other)		Shim		
Pinion bearing adj. (shim, other)		Collapsible Spacer		
Wheel bearing type		Single Row Ball Bearing		
Lubricant	Capacity (pt.)	5.5		
	Type recommended	Hypoid Gear Lubricant		
	SAE viscosity number	Summer	90	
		Winter	90	
Extreme cold		90		

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

- (a) Except with Tempest 425A Engine Option where 3.23:1 (42:13) is standard or Tempest 425E Engine Option where 2.69:1 (43:16) is specified.
 (b) Except with Tempest 425A Engine Option where 3.42:1 (41:12) is standard.

AMA Specifications – Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED 4-8-60

MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

DRIVE UNITS—WHEELS

Type & material		Steel Disc
Rim (size and flange type)		14 x 6K
Attachment	Type (bolt or stud)	Bolt
	Circle diameter	5
	Number and size	5 - 1/2 - 20

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.00 x 14 - 4 Ply		
	Type - Nylon, etc.	Rayon Cord		
Rev/mile at 50 mph.		750 Std.	740 Opt. A	N. A. Opt. B
Inflation press. (cold)	Front	22 Std.	20 Opt. A	28 Opt. B
	Rear	22 Std.	20 Opt. A	28 Opt. B

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)		Hydraulic, Internal Expanding, 2 Shoe, Single Anchor		
Power brake make & type (remote, integral, etc.)		Moraine or Bendix Products - Integral		
Effective area (sq. in.)*		173.7		
Gross lining area (sq. in.)**		191		
Percent brake effectiveness—front		58.5		
Drum	Diameter	Front	11.0	
		Rear	11.0	
Type and material		Steel Backed Centrifugally Cast Alloy Iron		
Bonded or riveted		Riveted		
Brake lining	Front Shoe	Material	Molded Asbestos	
		Size (length x width x thickness)	Front wheel	9.29 x 2.50 x .22
			Rear wheel	9.29 x 2.00 x .22
	Segments per shoe	One		
	Rear Shoe	Material	Molded Asbestos	
		Size (length x width x thickness)	Front wheel	11.94 x 2.50 x .22
Rear wheel			11.94 x 2.00 x .22	
Segments per shoe	One			
Wheel cylinder bore	Front	1.188		
	Rear	1.00		
Master cylinder bore		1.00		
Available pedal travel		6.25 Std. - 3.24 With Power Brake Opt.		
Line pressure at 100 lb. pedal load		800 P. S. I. (Std.)		
Shoe clearance adjustment		.015 At Secondary With Primary Against Drum		

* Excludes rivet holes, grooves, chamfers, etc.

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

Option A: 8.50 x 14 - 4 Ply Rayon Cord

Option B: 8.00 x 14 - 6 Ply Rayon Cord

AMA Specifications—Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR _____ DATE ISSUED 8-5-59 REVISED _____
 MODEL _____ CATALINA _____ VENTURA _____ STAR CHIEF _____ BONNEVILLE _____

BRAKES—PARKING

Type of control		Foot Lever Application - Hand Lever Release
Location of control		Below Instrument Panel At Left
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	Not Separate
	Drum diameter	Not Separate
	Lining size (length x width x thickness)	Not Separate

FRAME or UNITIZED CONSTRUCTION

Type and description	Tubular Center X Type With Box Section Front Side Bars - Other Construction Details Vary To Meet Requirements Of Individual Bodies.
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SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)*

Provision for car leveling		None
Provision for brake dip control		Compound Anti-Dive Control Front Suspension
Provision for acc. squat control		Geometry Of Rear Suspension Links
Special provisions for car jacking		None
Shock absorber front & rear	Type	Direct Acting - Two Way
	Make	Delco
	Piston dia.	1.00
Other special features		

SUSPENSION—FRONT

Type and description	Ball Joint Independent Front Suspension With Upper Control Arms Pivoted At Inner End On Threaded Bushings. Lower Control Arms Mounted On Rubber Bushings.
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(Continued)

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* Air Suspension:
 Air spring type
 Compressor data
 type
 make
 drive ratio
 Normal operating pressures
 spring rates
 leveling data

AMA Specifications – Passenger Cars

MAKE OF CAR	PONTIAC	MODEL YEAR	DATE ISSUED 8-5-59	REVISED
MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE

SUSPENSION FRONT (cont.)

Spring	Type	Coil
	Material	SAE 9260 Steel
	Size (coil design height & I.D.; bar length x dia.)	10.60 x 4.05
	Spring rate (lb. per in.)	315
	Rate at wheel (lb. per in.)	90
	Design load (lb. @ design height)	2055-2125 @ 10.60
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE 1080 Steel (a)

STEERING

Mechanical (std., opt., NA)		Std.			
Power (std., opt., NA)		Opt.			
Wheel diameter		17.0 Std., 16.5 Opt., 16.5			
Turning diameter	Outside front	Wall to wall (l. & r.)	45.6'	46.7'	
		Curb to curb (l. & r.)	42.7'	43.8'	
	Inside rear	Wall to wall (l. & r.)	24.8'	26.2'	
		Curb to curb (l. & r.)	25.3'	26.8'	
Outside wheel angle with inside wheel at 20°		19°			
Mechanical	Gear	Type	Recirculating Ball Bearing		
		Make	Saginaw		
		Ratios	Gear	24:1	
			Overall	29:1	
	No. wheel turns	5.56			
Power	Type (coaxial, linkage, etc.)		Coaxial		
	Make		Saginaw		
	Trade name		Power Steering		
	Gear	Type	Recirculating Ball Bearing		
		Ratios	Gear	17.5:1	
			Overall	22:1	
	Pump driven by		Belt From Crankshaft		
	Number wheel turns		4.06		
	Linkage	Type		Link Parallelogram	
		Location (front or rear of wheels, other)		Rear Of Wheels	
Drag link (trans. or longit.)		Transverse Strg. Rod Connects Tie Rods, Pitman & Idler Arms			
Tie rods (one or two)		Two			

(a) .750 Dia. on Ventura and All Catalinas Except Station Wagons - .688 Diameter on Catalina Station Wagons and all Star Chief and Bonneville Models. (Continued) Rev. Form 3-59

AMA Specifications – Passenger Car

MAKE OF CAR PONTIAC **MODEL YEAR** 1960 **DATE ISSUED** 8-5-59 **REVISED** _____
MODEL _____ CATALINA VENTURA STAR CHIEF BONNEVILLE

STEERING (cont)

Steering Axis	Inclination at camber (deg.)		4° 50' @ 0° Camber
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
		Thrust	Thrust Taken By Lower Ball Joint
Wheel alignment (range and preferred)	Caster (deg.)		1-1/2° Negative ± 1/2°
	Camber (deg.)		1/4° Positive ± 1/2°
	Toe-in (outside tread-inches)		0 To .125 Toe-in Measured 9 In. Above Floor
Steering spindle & joint type			Reverse Elliott - Ball Joint
Wheel spindle	Diameter	Inner bearing	1.249
		Outer bearing	.749
	Thread size		3/4 - 20
	Bearing type		Ball

SUSPENSION--REAR

Type and description			Pivoted Control Arm	
Drive and torq. taken through (see page 15)			Control Arms	
Spring	Type		Coil	
	Material		SAE 9260 Steel	
	Size (length x width, coil design height and I.D.; bar length & dia.)		11.20 x 4.38	
	Spring rate (lb. per in.)		175 (1)	195 (1)
	Rate at wheel (lb. per in.)		109 (1)	122 (1)
	Design load (lb. at design height)		1315 - 1385 (1)	1385 - 1455 (1)
	Mounting insulation type		Rubber	
	If leaf	No. of leaves		None
Inserts		Type and size	None	
		Material	None	
Shackle (comp. or tens.)		None		
Stabilizer	Type (link, linkless, frameless)		Link (2)	
	Material		SAE 1080 Steel (2)	
Track bar type			None - Upper Control Arm Serves	

- (1) Figures shown apply to 4 Door Sedans - specifications for other models vary to compensate for different loading. Rev. Form 3-59
- (2) Used on Station Wagons only.

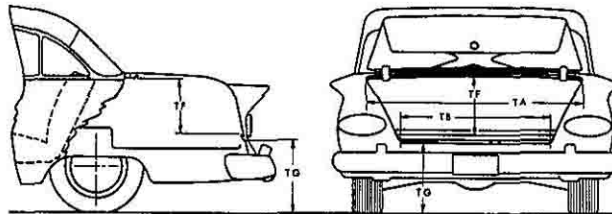
MAKE OF CAR PONTIAC **MODEL YEAR** 1960 **DATE ISSUED** 8-5-59 **REVISED** 4-8-60

BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Subcommittee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., HA. Symbol 'a' added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Body Dimensions are for all basic body models as indicated.
2. All interior dimensions are taken 15" outboard of car centerline (C/L) unless otherwise stated.
3. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
4. Depressed "A" point is the lowest point on the seat cushion depressed contour.
5. Front seat is in full down and normal rear position.
6. Unless otherwise specified all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
7. DLO (Daylight opening - pages 22 & 24).
8. For further clarification of definitions see SAE Aeronautical—Automotive Drawing Standards, Section E-1.

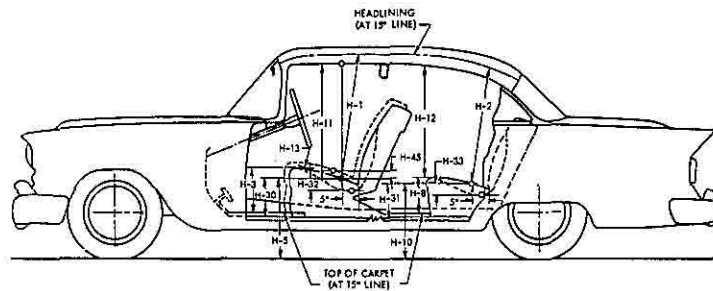
BODY—TRUNK DIMENSIONS



MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)	18.33		21.58	
Total trunk volume in cu. ft. with spare tire in place	35.0		40.0	
TA—Width across the top	50.0		50.1	
TB—Width across the bottom	46.0		46.1	
TF—Vertical dimension at C/L from bottom to top of opening			4.0	
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal—loaded)	31.1		31.3	
Position of spare tire stowage	Lays Flat On R. H. Side			
Method of holding lid open	Torsion Bar Counterbalance			

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED 4-8-60

BODY—HEIGHT DIMENSIONS—INTERIOR

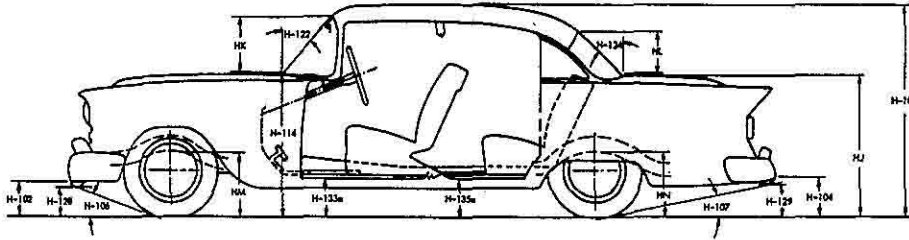


MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	34.8	32.9	34.8	32.9
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	33.9	34.2	33.9	34.2
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	9.8		9.6	
H5. Free "A" pt. to ground, front. Measured vertically	21.1		21.3	
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	13.8	12.0	13.5	11.7
H10. Free "A" point to ground rear. Measured vertically	19.7	18.0	19.8	18.1
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	29.1	27.8	29.1	27.8
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	28.0	29.0	28.0	29.0
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	5.0		5.2	
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	9.1			
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	12.4	10.7	12.4	10.7
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.7	5.0	4.7	5.0
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	5.2	4.3	5.2	4.3
H45. Front seat maximum vertical rise at free "A" point	0.5			

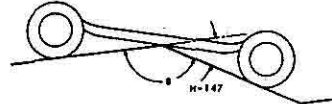
AMA Specifications— Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED 4-8-60

BODY—HEIGHT DIMENSIONS—EXTERIOR



* - INCLUDED RAMP ANGLE
 H-147 - RAMP BREAKOVER ANGLE
 (SUPPLEMENT OF INCLUDED RAMP ANGLE)



NOTE: For dimensions to lamps see page 12.

MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE
H101. Overall height, full design load	56.4	54.6	56.6	54.8
HB. Overall height, curb weight	58.3	56.6	58.2	56.4
H102. Front bumper bottom to ground at normal section, min. height	11.3		11.4	
H104. Rear bumper bottom to ground at normal section, min. height	12.4		12.6	
H106. Angle of approach. To interfering point on bumper, guard, other	21.5°		21.8°	
H107. Angle of departure. To interfering point on bumper, guard, other	12.5°		12.1°	
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	38.4		38.5	
H122. Windshield normal slope angle to vertical line on car C/L	54°	57.5°	54°	57.5°
H124. Backlight normal slope angle to vertical line on car C/L	58.0°	54.0°	58.0°	54.0°
H128. Bottom of front bumper guard to ground	Guards Not Used			
H129. Bottom of rear bumper guard to ground	11.6		11.7	
H133a. Bottom of front door to ground, min. dimension	11.9		12.1	
H135a. Bottom of rear door to ground, min. dimension	11.7		11.9	
H147. Ramp breakover angle	11.5°		11.25°	
H153. Min. road clearance at rear axle	6.6			
H156. Min. road clearance and location	5.76 (a)			
HJ. Deck at rear window to ground	39.8		40.0	
HK. Windshield DLO*. Vertical height at C/L	12.3	9.7	12.3	9.7
HL. Back light DLO*. Vertical height at C/L	14.5	12.2	14.5	12.2
HM. Bottom of frame to ground at C/L of front axle, min. height	12.2			
HN. Bottom of frame to ground at C/L of rear axle, min. height.	18.1			

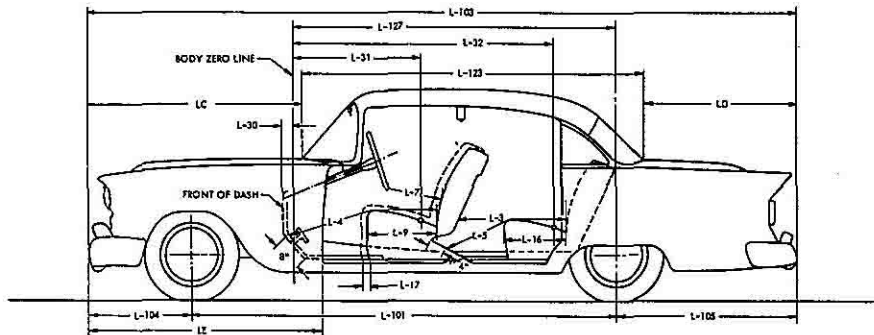
* See Note, page 20

(a) Clearance at frame side bar.

AMA Specifications—Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE: ISSUED 8-5-59 REVISED _____

BODY—LENGTH DIMENSIONS



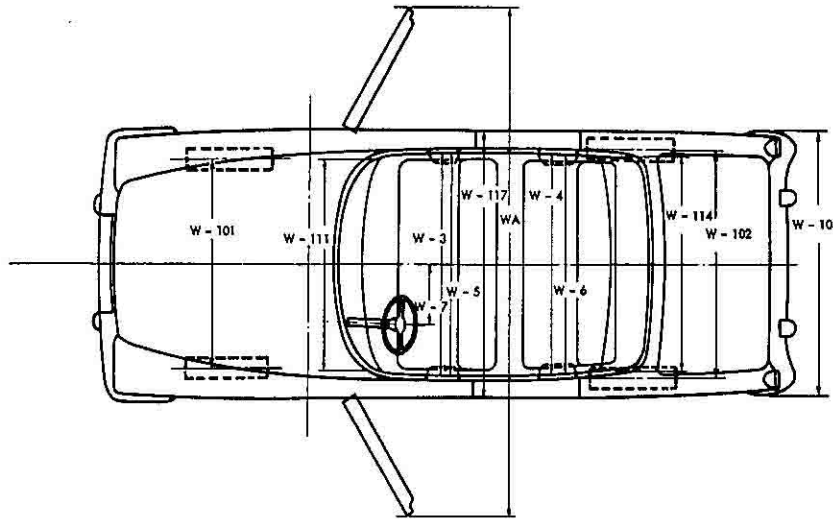
MODEL	CATALINA	VENTURA	STAR CHIEF	BONNEVILLE
L3. Rear compartment room. Back of front seat back to front of rear seat back	28.1	28.5	28.1	28.5
L4. Leg room, front. Ball of foot to top of seat to seat back	45.3		45.2	
L5. Leg room, rear. Ball of foot to top of seat to seat back	41.9	40.8	41.4	40.3
L7. Steering wheel clearance to seat back taken on arc	15.4		15.5	
L9. Front seat depth. Front edge to vert. tan. of seat back	18.5			
L16. Rear seat depth. Front edge to vert. tan. of seat back	18.4	18.6	18.4	18.6
L17. Maximum "A" point horizontal travel with normal seat adjustment	4.8			
L30. Vertical body zero line to actual front of dash. Measured horizontally*	0.54			
L31. Vertical body zero line to free "A" point, front	42.0			
L32. Vertical body zero line to free "A" point, rear	76.4	76.3	76.4	76.3
L101. Wheelbase	122		124	
L103. Overall length. Incl. bumper guards if standard equipment	213.7		220.7	
L104. Overhang, front. Include bumper guards if stand. eq.	35.2			
L105. Overhang, rear. Include bumper guards if stand. eq.	56.5		61.5	
L123a. Body upper structure length at C/L, excl. molding	112.7	106.8	112.7	106.8
L127. Vertical body zero line to centerline of rear wheels	100.5		102.5	
LC. Front of car to base windshield, excl. molding	58.5			
LD. Rear of car to base of rear window or upper structure, excl. molding	42.5	48.4	49.5	55.4
LE. Front of car to front edge of front door	71.1			

* Precede figure with minus sign if front of dash is to rear of body zero line.

AMA Specifications—Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE ISSUED 8-5-59 REVISED

BODY—WIDTH DIMENSIONS

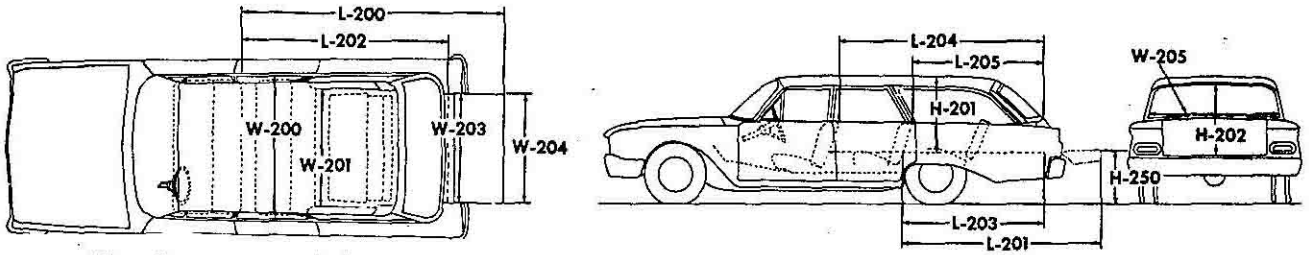


MODEL		CATALINA	VENTURA	STAR CHIEF	BONNEVILLE
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	60.6			60.5
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	59.0			
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back	65.4	65.3	65.4	65.2
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back	65.4	66.2	65.4	66.2
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	16.0			
Exterior	W101. Front tread at ground	64			
	W102. Rear tread at ground	64			
	W103. Max. overall width of car including bumpers or moldings	80.7			
	WA. Max. overall width of car with doors open (2 & 4 door)	164.9 (2 Dr.) 148.9 (4 Dr.)			
	W111. Windshield DLO, max. width	64.4			
	W114. Back window DLO, max. width	60.6	62.8	60.6	62.8
	W117. Max. body width at center pillar, less hardware and applied moldings	79.5			

AMA Specifications – Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE: ISSUED 8-5-59 REVISED _____

STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Front seat in full down and normal rear position for all measurements. Lengths and heights measured at car centerline.

MODEL	CATALINA		BONNEVILLE
	2 SEAT	3 SEAT	2 SEAT
L200 Floor length from back of front seat at floor level to end of lowered tail gate		119.4	
L201 Floor length from back of second seat at floor level to end of lowered tail gate		84.8	
L202 Floor length from back of front seat at floor level to inside of closed tail gate		92.4	
L203 Floor length from back of second seat at floor level to inside of closed tail gate		57.8	
L204 Minimum horizontal distance from top rear of front seat back to inside of top of tail gate		82.9	
L205 Minimum horizontal distance from top rear of second seat back to inside of top tail gate		48.2	
W200a Maximum width of cargo space at floor, specify location		63.7	
W201 Minimum distance between wheel houses at floor level		46.3	
W203 Rear end opening width at floor		47.6	
W204 Rear end opening width at top of tail gate		45.4	
W205 Maximum width of rear opening above raised tail gate		45.0	
H201 Maximum height, floor covering to headlining		32.1	
H202 Maximum height of rear opening, tail and lift gates open		26.5	
H250 Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight		25.5	
Third Seat, facing direction	None	Rear	None
Tail and lift gates or sliding glass	Sliding Glass		

AMA Specifications -- Passenger Car

MAKE OF CAR PONTIAC **MODEL YEAR** 1960 **DATE ISSUED** 8-5-59 **REVISED**
MODEL CATALINA VENTURA STAR CHIEF BONNEVILLE

BODY--MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Acrylic Lacquer
Hood hinge location (front, rear)		Rear
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle (Serial) No. Location		Left Front Body Pillar
Engine No. Location		Front of R. H. Cylinder Bank
Theft protection - type		Ignition Switch Terminals Guarded by Locked-on Conn. Body*
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	None
Seat spring type (coil, zigzag, etc.)		Zigzag
Windshield type (single curved, compound curved, other)		Compound Curved
Rear window type (flat, curved, one piece, three piece)		Compound Curved - One-Piece
Side glass type (curved, flat)		Flat
Side glass exposed surface area		1393.3
Windshield glass exposed surface area		1718.9
Backlight glass exposed surface area		1557.6
Total glass exposed surface area		4669.8

BODY--TYPES AND STYLE NAMES--

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

BODY STYLES: & Number of Passengers	CODES			
Sedan (4 Dr.) 6	2119	-	2419	-
Sport Sedan (2 Dr.) 6	2111	-	2411	-
Sport Coupe (2 Dr. HT) 6	2137	2337	-	2837
Vista Sedan (4 Dr. HT) 6	2139	2339	2439	2839
Conv. Coupe (2 Dr.) 5	2167	-	-	2867
Safari(4 Dr. Sta. Wgn.) 6	2135	-	-	2735
Safari(4 Dr. Sta. Wgn.) 9	2145	-	-	-

* Ignition Key Starter Control and "In Harness" Wiring From Ignition Switch to Starter Solenoid and Ignition Coil Add To Theft Protection Offered by Locked Doors.

AMA Specifications – Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1960 DATE: ISSUED 8-5-59 REVISED 4-8-60

MAJOR OPTIONAL ITEMS - WEIGHTS

Model	CURB - WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
CATALINA								
Sedan (4 Dr.) 2119	2123	1996	4119	52.3	47.7	22.3	77.7	3935
Sport Sedan (2 Dr.) 2111	2083	1936	4019	52.3	47.7	22.3	77.7	3835
Sport Cpe. (2 Dr. HT) 2137	2094	1940	4034	52.3	47.7	26.3	73.7	3850
Vista Sed. (4 Dr. HT) 2139	2145	2029	4174	52.3	47.7	22.3	77.7	3990
Conv. Cpe. (2 Dr.) 2167	2125	1999	4124	52.3	47.7	26.3	73.7	3940
Safari (4 Dr. 6 Pass.) 2135	2083	2411	4494	52.3	47.7	22.3	77.7	4310
Safari (4 Dr. 9 Pass.) 2145	2078	2471	4549	52.3	47.7	22.3**	77.7**	4365
VENTURA								
Sport Cpe. (2 Dr. HT) 2337	2101	1948	4049	52.3	47.7	26.3	73.7	3865
Vista Sed. (4 Dr. HT) 2339	2144	2030	4174	52.3	47.7	22.3	77.7	3990
STAR CHIEF								
Sedan (4 Dr.) 2419	2133	2046	4179	54.0	46.0	24.3	75.7	3995
Sport Sedan (2 Dr.) 2411	2099	1995	4094	54.0	46.0	24.3	75.7	3910
Vista Sed. (4 Dr. HT) 2439	2136	2088	4224	54.0	46.0	24.3	75.7	4040
BONNEVILLE								
Sport Cpe. (2 Dr. HT) 2837	2116	2033	4149	54.0	46.0	27.7	72.3	3965
Vista Sed. (4 Dr. HT) 2839	2157	2092	4249	54.0	46.0	24.3	75.7	4065
Conv. Cpe. (2 Dr.) 2867	2145	2069	4214	54.0	46.0	27.7	72.3	4030
Safari (4 Dr. 6 Pass.) 2735	2096	2448	4544	52.3	47.7	22.3	77.7	4360
Accessories & Equipment Differential Weights								
Hydra-Matic Trans.	71.0	24.0	95.0	(On Power Steering Equipped Cars)				
Power Steering	34.5	1.0	35.5					
Heater (Circ-L-Aire)	25.0	7.3	32.3					
Air Cond. with Heater	173.9	16.0	189.9					
Power Seat 6-Way	11.4	9.0	20.4					
Power Seat 4-Way	9.2	8.0	17.2					
Power Brakes	12.0	1.9	13.9					
Super Deluxe Radio and Manual Antenna	9.0	1.5	10.5					
Dual Exhaust	10.0	11.7	21.7					

* These are weights that are reported to states for licensing purposes. Rev. Form 3-59
 ** Intermediate Seat Load

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