

AMA Specifications—Passenger Car

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MANUFACTURER	Pontiac Motor Division General Motors Corporation	CAR NAME	Pontiac - Catalina, Executive, Bonneville & Grand Prix	
MAILING ADDRESS	Pontiac, Michigan 48053	MODEL YEAR	1968	ISSUED 8-21-67 REVISED (●)

NOTES

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.

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BODY - TYPES AND STYLE NAMES -						Body type, number of passenger & style names, use manufacturer's code for series & body style.					
						Body Style Number					
Body Type	Number of Passengers	Catalina	Executive	Bonneville	Grand Prix						
4-Door Sedan	6	25269	25669								
2-Door Sedan	6	25211									
4-Door Hardtop	6	25239	25639	26239							
Hardtop Coupe	6	25287	25687	26287	26657						
Convertible	6	25267		26267							
Station Wagon, 4-Dr.	2-Seat	25235	25635								
Station Wagon, 4-Dr.	3-Seat	25245	25645	26245							

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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 and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	CATALINA 25269	EXECUTIVE 25669	BONNEVILLE 26239	GRAND PRIX 26657
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WIDTH

Track - Front	W101	63			
Track - Rear	W102	64			
Maximum overall car width	W103	79.8			
Body width at No. 2 pillar	W117	78.7			

LENGTH

Body "O" to front of dash	L 30	20.0			
Wheelbase	L101	121	124 (b)	121	
Overall car length	L103	216.5 (a)	223.5 (a)	216.3	
Overhang - front	L104	37.9			
Overhang - rear	L105	57.6	61.6	57.4	
Body upper structure length	L123	108.6	112.6	107.3	
Body "O" line to C of rear wheel	L127	101.0	104.0	101.0	
Body "O" line to w/s cowl point	L130	10.2			

HEIGHT

Overall height	H101	54.8	53.8	53.0	
Cowl height	H114	38.3			38.0
Deck height	H138	N. A.			
Rocker panel - front	To ground	7.5	7.6	7.3	
	From front wheel C	37.0			
Rocker panel - rear	To ground	7.0	7.1	6.7	
	From rear wheel C	36.0	39.0	36.0	
Windshield slope angle	H122	55.0			

GROUND CLEARANCE

Bumper to ground - front	H102	14.8	14.6		
Bumper to ground - rear	H104	14.1	14.5	13.2	
Angle of approach	H106	24.8	24.7	24.5	
Angle of departure	H107	15.0	14.3	15.1	
Ramp breakover angle	H147	12.7	11.3	11.0	
Min. running clearance (Specify)	H156	5.8			5.6

(a) All body styles except station wagon which is 217.8.

(b) Except 121 on all station wagons.

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CAR AND BODY DIMENSIONS

See Appendix A for SAE Dimension Definition.

(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref No	CATALINA 25269	EXECUTIVE 25669	BONNEVILLE 26239	GRAND PRIX 26657
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FRONT COMPARTMENT

Effective head room	H61	39.1	39.1	38.2	37.9
Effective leg room - accelerator	L34		42.1		42.3
H Point to heel point	H30		8.2		8.3
H Point to knee	L17		4.8		
Shoulder room	W 3		62.3		62.4
Hip room	W 5		63.8		
Upper body opening to ground	H50	49.0		48.9	48.5

REAR COMPARTMENT

H Point to knee distance	L50	35.3		35.0	32.5
Effective head room	H63	37.7	37.6	37.1	37.2
Min. effective leg room	L51	38.1		37.7	35.2
H Point to Heel point	H31	11.8		11.1	10.9
Min. knee room	L48		4.5		3.3
Rear Compartment room	L 3	27.5	27.2	27.4	26.1
Shoulder room	W 4		61.4		61.0
Hip room	W 6	62.4		62.5	55.3
Upper body opening to ground	H51	48.8		48.0	--

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	18.9	20.9	N. A.
Liftover height	H195	30.2	30.5	29.9
Position of spare tire storage		Inclined at Forward End of Compartment		
Method of holding lid open		Torsion Bar Counterbalance		

STATION WAGON - THIRD SEAT

		CATALINA 25245	EXECUTIVE 25645	BONNEVILLE 26245
Shoulder Room	W85		49.9	
Hip room	W86		48.9	
Effective leg room	L86		33.2	
Effective head room	H86		36.2	
Seat facing direction		Rear		

STATION WAGON - CARGO SPACE

		CATALINA		EXECUTIVE		BONNEVILLE
		25235	25245	25635	25645	26245
Cargo length at floor - front seat	L202	93.7				93.5
Cargo length at belt - front seat	L204	84.5				
Cargo width - wheelhouse	W201	48.9				
Opening width at belt	W204	52.4				
Maximum cargo height	H201	30.6				30.3
Rear opening height	H202	28.7				28.4
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	91.7 (a)				90.8 (a)

(a) Add 8.9 cu. ft. for compartment under floor on 25235 and 25635 styles, add 4.2 cu. ft. on 25245 & 25645 styles and 3.9 cu. ft. on 26245 style.

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/F/C ratio)
	Displ. cu. in.	Carburetor	Comp. Ratio	BHP RPM	Torque RPM		
<u>Standard Engines</u>							
252 & 256	400	2 bbl.	10.5:1	290 @	428 @	Manual (3-sp.)	3.23:1, 3.08:1 (a)
25211 & 25269	400	2 bbl.	10.5:1	4600	2500	Turbo Hydra-Matic	2.29:1, 2.73:1 (c)
25239	400	2 bbl.	10.5:1			Turbo Hydra-Matic	2.41:1, 2.29:1, 2.93:1 (c)
25267, 87, 35 & 45	400	2 bbl.	10.5:1			Turbo Hydra-Matic	2.56:1, 2.41:1, 2.93:1 (d)
256	400	2 bbl.	10.5:1			Turbo Hydra-Matic	2.56:1, 2.41:1, 2.93:1 (d)
262	400	4 bbl.	10.5:1	340 @	445 @	Manual (3-sp.)	3.23:1, 3.08:1 (a)
26239 & 26287	400	4 bbl.	10.5:1	4800	2900	Turbo Hydra-Matic	2.56:1, 2.41:1, 2.93:1 (d)
26245 & 26267	400	4 bbl.	10.5:1			Turbo Hydra-Matic	2.73:1, 2.56:1, 3.08:1 (e)
266	400	4 bbl.	10.5:1	350 @	445 @	Manual (3-sp.)	3.23:1, 3.42:1 (a)
	400	4 bbl.	10.5:1	5000	3000	Turbo Hydra-Matic	2.73:1, 2.56:1, 3.08:1 (e)
<u>Optional Engines</u>							
<u>400 Regular Fuel Engine</u>							
252, 256, 26239 & 26287	400	2 bbl.	8.6:1	265 @	397 @	Turbo Hydra-Matic	2.41:1 (c)
26267, 45 & 266	400	2 bbl.	8.6:1	4600	2400	Turbo Hydra-Matic	2.56:1 (d)
<u>400 4-bbl. Engine</u>							
252 & 256	400	4 bbl.	10.5:1	340 @	445 @	Manual (3-sp.)	3.23:1 (a)
	400	4 bbl.	10.5:1	4800	2900	Turbo Hydra-Matic	2.73:1, 2.41:1, 2.93:1 (e)
<u>428 4-bbl. Engine</u>							
252, 256, 262 & 266	428	4 bbl.	10.5:1	375 @	472 @	Manual (3-sp.)	3.23:1 (a)
	428	4 bbl.	10.5:1	4800	3200	Manual (4-sp.)	3.42:1 (g)
	428	4 bbl.	10.5:1			Turbo Hydra-Matic	3.08:1, 2.56:1, 3.23:1 (f)
<u>428 H.O. 4-bbl. Engine</u>							
252, 256, 262 & 266	428	4 bbl.	10.75:1	390 @	465 @	Manual (3-sp.)(b)	3.42:1 (h)
	428	4 bbl.	10.75:1	5200	3400	Turbo Hydra-Matic	3.42:1 (h)

- (a) 3.23:1 With air conditioning
- b) 3-speed standard - 4-speed optional
- (c) 2.41:1 With air conditioning
- (d) 2.56:1 With air conditioning
- (e) 2.73:1 With air conditioning
- (f) 2.93:1 With air conditioning
- (g) 3.42:1 With air conditioning
- (h) Air conditioning not available.

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MAKE OF CAR	Pontiac	MODEL YEAR	1968	DATE ISSUED	8-21-67	REVISED (e)
MODEL	CATALINA & EXECUTIVE	BONNEVILLE	GRAND PRIX	OPTIONAL	428 Cu. In. Engine	

ENGINE - GENERAL

Type, no. cyls., valve arr.	90° V, 8, In-head			
Bore and stroke (nominal)	4.1200 4.1224	x	3.746 3.754	4.1200 x 3.996 4.1224 x 4.004
Piston displacement, cu. in.	400			428
Bore spacing (C to C)	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)	10.5:1			
Cylinder Head Material	Alloy Cast Iron			
Cylinder Block Material	Alloy Cast Iron			
Cyl. Sleeve-Wet, dry, none	None			
Number of mtg. points	Front	2		
	Rear	1		
Engine installation angle	4°			
Taxable horsepower	54.3			
	Dra ² x No. Cyl. 2.5			
Publishing max. bhp* @ eng. RPM	290 @ 4600	340 @ 4800	350 @ 5000	375 @ 4800
Publishing max. torque* (lb. ft. @ RPM)	428 @ 2500	445 @ 2900	445 @ 3000	472 @ 3200
Recommended fuel regular - premium	Premium			

ENGINE - PISTONS

Material	Aluminum Alloy				
Description and finish	Cam Ground Slipper Type - Tin Plated				
Weight (piston only) oz	22.070 - 22.250			19.950 - 20.130	
Clearance (limits)	Top land	.017 - .021			
	Skirt	Top	.0025 - .0031 (a)		
		Bottom	.0020 - .0036		
Ring groove depth	No. 1 ring	3.667 - 3.677			
	No. 2 ring	3.667 - 3.677			
	No. 3 ring	3.670 - 3.680			
	No. 4 ring	None			

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

(a) Pistons selected for clearance at 1.110 below top of piston.

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MODEL		CATALINA	EXECUTIVE	BONNEVILLE	GRAND PRIX		
ENGINE - RINGS		400 cu. in. Engines			Optional 428 cu. in. Engines		
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.	Cast Iron Reverse Twist With Taper Face - No. 1 Moly Channel, No. 2 Tin Plated (a)					
	Width	No. 1 - .0778, No. 2 - .0775					
	Gap	No. 1 - .020, No. 2 - .018					
Oil	Description - material, coating, etc.	Multi-Piece (2 Rails and 1 Expander) Rails - Steel with Chrome Plated O.D. Expander - Stainless Steel					
	Width	.186					
	Gap	.035					
Expanders		In Oil Ring Assembly					

ENGINE - PISTON PINS

Material		SAE 1016 Steel					
Length		3.25					
Diameter		.9802					
Type	Locked in rod, in piston, floating, etc.	Locked in Rod					
	Bush. ing	None					
	In rod or piston Material	None					
Clearance	In piston	.0005 - .0007					
	In rod	Press Fit					
Direction & amount offset in piston		To Right - .063					

ENGINE - CONNECTING RODS

Material		Arma Steel					
Weight (oz.)		31.7					
Length (center to center)		6.625					
Bearing	Material & Type	Moraine 100-A (b)			Moraine 400-A (b)		
	Overall length	.88					
	Clearance (limits)	.0005 - .0025			.0005 - .0026		
	End play	.006 - .011 (Total for Two)					

(a) Optional 428 H.O. engines use moly channel rings in both No. 1 and No. 2 locations.

(b) Steel backed removable precision.

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MODEL		CATALINA	EXECUTIVE	BONNEVILLE	GRAND PRIX	
ENGINE - CRANKSHAFT		400 Cu. In. Engines		428 Cu. In. Engines		
Material		Nodular Iron		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	.0002 - .0017		.0005 - .0021		
	Journal dia and bearing overall length	No. 1	3.00 x .94		3.25 x .94	
		No. 2	3.00 x .94		3.25 x .94	
		No. 3	3.00 x .94		3.25 x .94	
		No. 4	3.00 x 1.13		3.25 x 1.19	
		No. 5	3.00 x 1.59		3.25 x 1.59	
		No. 6			None	
No. 7				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 Babbit 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	Aluminum Alloy with Nylon Covered Teeth				
	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			
Operating tappet clearance (indicate hot or cold)	Intake	0			
	Exhaust	0			

(Continued)

* M-400 in lower half of No. 1, 2, 3 and 4 locations on 400 cu. in. 4 bbl. engines with manual transmission and lower half of No. 4 only on all other 400 cu. in. engines. M-400 in all locations (upper and lower) in 428 cu. in. engines.

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MODEL		V-400 2-Bbl.			V-400	
		Regular Fuel		Premium Fuel	4-Bbl.	
ENGINE - VALVE SYSTEM (cont.)			Man. Trans.	Auto. Trans.	Man. Trans.	
Timing (based on top of ramp points)	Intake	Opens (°BTC)	22	30	22	23
		Closes (°ABC)	67	63	67	70
		Duration - deg.	269	273	269	273
	Exhaust	Opens (°BBC)	72	77	72	78
		Closes (°ATC)	25	25	25	31
		Duration - deg.	277	282	277	289
Valve opening overlap		47°	55°	47°	54°	
Material		SAE-1041 with Alum. Treatment on Face & Flash Chrome Plated Steel				
Overall length		4.998	5.089	5.089	5.093	
Actual overall head dia.		1.963 - 1.957	1.963 - 1.957	1.963 - 1.957	2.113 - 2.107	
Angle of seat & face		30° Seat - 29° Face				
Seat insert material		Not Used				
Stem diameter		.3419 - .3412				
Stem to guide clearance		.0016 - .0033				
Intake	Lift (@ zero lash)		.376 ± .011	.410 ± .011	.376 ± .011	.410 ± .011
	Outer spring press. & length	Valve closed (lb.@in.)	59.6 65.6 @ 1.5823	59.6 65.6 @ 1.5823	59.6 @ 1.5823	63.3 69.3 @ 1.5613
		Valve open (lb.@in.)	122.5 132.5 @ 1.2063	128.4 138.4 @ 1.1723	122.5 @ 1.2063	132 142 @ 1.1513
	Inner spring press. & length	Valve closed (lb.@in.)	31.7 37.7 @ 1.5423	31.7 @ 1.5423	31.7 @ 1.5423	35 @ 1.5213
		Valve open (lb.@in.)	88.8 98.8 @ 1.1663	94.1 104.1 @ 1.1323	88.8 @ 1.1663	97.4 107.4 @ 1.1113
	Material		21-2 Steel with Alum. Treatment on Face & Flash Chrome Plated Steel			
Overall length		4.987	5.078	5.078	5.082	
Actual overall head dia.		1.663 - 1.657	1.663 - 1.657	1.663 - 1.657	1.773 - 1.767	
Angle of seat & face		45° Seat - 44° Face				
Seat insert material		Not Used				
Stem diameter		.3414 - .3407				
Stem to guide clearance		.0021 - .0038				
Exhaust	Lift (@ zero lash)		.412 ± .011	.414 ± .011	.412 ± .011	.413 ± .011
	Outer spring press. & length	Valve closed (lb.@in.)	59.6 65.6 @ 1.5823	59.6 @ 1.5823	59.6 @ 1.5823	63.3 69.3 @ 1.5613
		Valve open (lb.@in.)	128.7 138.7 @ 1.1703	129.1 @ 1.1683	128.7 @ 1.1703	132.5 142.5 @ 1.1483
	Inner spring press. & length	Valve closed (lb.@in.)	31.7 37.7 @ 1.5423	31.7 @ 1.5423	31.7 @ 1.5423	35 @ 1.5213
		Valve open (lb.@in.)	94.4 104.4 @ 1.1303	94.7 @ 1.1283	94.4 @ 1.1303	97.9 107.9 @ 1.1083

ENGINE - LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Component	Method
	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Metered Jet
	Cylinder walls	Metered Jet

(Continued)

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MODEL V-400 4-bbl. Automatic Transmission V-28 4-bbl.
Except G. P. Grand Prix

ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	30	30	23
		Closes (°ABC)	63	63	70
		Duration - deg.	273	273	273
	Exhaust	Opens (°BBC)	77	77	78
		Closes (°ATC)	25	25	31
		Duration - deg.	282	282	289
Valve opening overlap		55°	55°	54°	

Intake	Material		SAE-1041 with Alum. Treatment on Face & Flash Chrome Plated Stem		
	Overall length		5.089	5.093	5.093
	Actual overall head dia.		1.963 - 1.957	2.113 - 2.107	2.113 - 2.107
	Angle of seat & face		30° Seat - 29° Face		
	Seat insert material		Not Used		
	Stem diameter		.3419 - .3412		
	Stem to guide clearance		.0016 - .0033		
	Lift (@ zero lash)		.410 ± .011	.410 ± .011	.410 ± .011
	Outer spring press. & length	Valve closed (lb.@in.)	59.6 @ 1.5823 65.6 @ 1.5823	63.3 @ 1.5613 69.3 @ 1.5613	63.3 @ 1.5613 69.3 @ 1.5613
		Valve open (lb.@in.)	128.4 @ 1.1723 138.4 @ 1.1723	132 @ 1.1513 142 @ 1.1513	132 @ 1.1513 142 @ 1.1513
	Inner spring press. & length	Valve closed (lb.@in.)	31.7 @ 1.5423 37.7 @ 1.5423	35 @ 1.5213 41 @ 1.5213	35 @ 1.5213 41 @ 1.5213
		Valve open (lb.@in.)	94.1 @ 1.1323 104.1 @ 1.1323	97.4 @ 1.1113 107.4 @ 1.1113	97.4 @ 1.1113 107.4 @ 1.1113

Exhaust	Material		21-2 Steel with Alum. Treatment on Face & Flash Chrome Plated Stem		
	Overall length		5.078	5.082	5.082
	Actual overall head dia.		1.663 - 1.657	1.773 - 1.767	1.773 - 1.767
	Angle of seat & face		45° Seat - 44° Face		
	Seat insert material		Not Used		
	Stem diameter		.3414 - .3407		
	Stem to guide clearance		.0021 - .0038		
	Lift (@ zero lash)		.414 ± .011	.414 ± .011	.413 ± .011
	Outer spring press. & length	Valve closed (lb.@in.)	59.6 @ 1.5823 65.6 @ 1.5823	63.3 @ 1.5613 69.3 @ 1.5613	63.3 @ 1.5613 69.3 @ 1.5613
		Valve open (lb.@in.)	129.1 @ 1.1683 139.1 @ 1.1683	132.7 @ 1.1473 142.7 @ 1.1473	132.5 @ 1.1483 142.5 @ 1.1483
	Inner spring press. & length	Valve closed (lb.@in.)	31.7 @ 1.5423 37.7 @ 1.5423	35 @ 1.5213 41 @ 1.5213	35 @ 1.5213 41 @ 1.5213
		Valve open (lb.@in.)	94.8 @ 1.1283 104.8 @ 1.1283	98.1 @ 1.1073 108.1 @ 1.1073	97.9 @ 1.1083 107.9 @ 1.1083

ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (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

(Continued)

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MODEL V-428 4-bbl. H.O. Engine Option
 Manual Transmission Automatic Transmission

ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	31	23
		Closes (°ABC)	77	70
		Duration - deg.	288	273
	Exhaust	Opens (°BBC)	90	78
		Closes (°ATC)	32	31
		Duration - deg.	302	289
Valve opening overlap		63°	54°	

Intake	Material		GM-8440 with Alum. Treatment on Face & Flash Chrome Plated Stem	
	Overall length		5.093	
	Actual overall head dia.		2.113 - 2.107	
	Angle of seat & face		30° Seat - 29° Face	
	Seat insert material		Not Used	
	Stem diameter		.3419 - .3412	
	Stem to guide clearance		.0016 - .0033	
	Lift (@ zero lash)		.414 ± .011	.410 ± .011
	Outer spring press. & length	Valve closed (lb.@in.)	63.3 @ 1.5613 69.3	63.3 @ 1.5613 69.3
		Valve open (lb.@in.)	132.7 @ 1.1473 142.7	132 @ 1.1513 142
	Inner spring press. & length	Valve closed (lb.@in.)	54.7 @ 1.5213 59.7	35 @ 1.5213 41
		Valve open (lb.@in.)	118.6 @ 1.1073 128.6	97.4 @ 1.1113 107.4

Exhaust	Material		21-2 Steel with Alum. Treatment on Face & Flash Chrome Plated Stem	
	Overall length		5.082	
	Actual overall head dia.		1.773 - 1.767	
	Angle of seat & face		45° Seat - 44° Face	
	Seat insert material		Not Used	
	Stem diameter		.3414 - .3407	
	Stem to guide clearance		.0021 - .0038	
	Lift (@ zero lash)		.413 ± .011	.413 ± .011
	Outer spring press. & length	Valve closed (lb.@in.)	63.3 @ 1.5613 69.3	63.3 @ 1.5613 69.3
		Valve open (lb.@in.)	132.5 @ 1.1483 142.5	132.5 @ 1.1483 142.5
	Inner spring press. & length	Valve closed (lb.@in.)	54.7 @ 1.5213 59.7	35 @ 1.5213 41
		Valve open (lb.@in.)	118.4 @ 1.1083 128.4	97.9 @ 1.1083 107.9

ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED (*)

MODEL	CATALINA	EXECUTIVE	BONNEVILLE	GRAND PRIX
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ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear		
Normal oil pressure (lb engine rpm)	30 to 40 above 2600 RPM*		
Oil press. sending unit (elect. or mech.)	Electric		
Type oil intake (floating, stationary)	Stationary Screen		
Oil filter system (full flow, part., other)	Full Flow		
Filter replacement (element, complete)	Complete		
Capacity of c. case, less filter-refill (qt.)	5		
Oil grade recommended (SAE viscosity and temperature range)	Anticipated Lowest Temp.	Single Viscosity SAE Number	Acceptable Alternate
	Above Freezing (+32°F.)	20W	10W - 30
	Below Freezing (0°F. to +32°F.)	10W	10W - 30
	Below Zero	5W	5W - 20
Engine Service Reqmt. (MM, MS, etc.)	MS		

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with Crossover (a)	Dual (a)
Muffler No. & type (reverse flow, straight thru, separate resonator)	One - Reverse Flow with Separate Resonator	Two-Reverse Flow w/ Separate Resonators
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .076
	Main	2.25 x .076 (a)
Tail pipe dia. (O.D. & wall thickness)	2.25 x .048 Aluminized (a)(c)	2.00 x .048 (a)(b)

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	None
Control Unit	Make and model	AC Type CV-679C
	Location	Push Rod 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)	Through Filter in the Carburetor Air Cleaner
	Flame arrestor (screen, check valve, other)	Check Valve

* 55 to 60 above 2600 RPM on optional 428 HO engines.

(a) Optional dual system (std. with 428 H.O. opt.) has 2.25 tailpipes with 2.00 resonator outlets. All dual system exhaust pipes are 2.00 except 428 H.O. Opt. where pipe is 2.25.

(b) Aluminized - outlet is 1.75 x .048.

(c) 2.00 x .048 outlet - all except Catalina 3 speed manual transmission with 2 bbl. carburetor where 2.00 x .048 tailpipe and 1.75 x .048 outlet is used.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED (a)

MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)			
Air Injection Pump	Type		
	Displacement		
	Drive ratio		
	Drive type		
	Relief valve (type)		
	Filter (describe)		
Air Injection System	Air distribution (head, manifold, etc.)		
	Point of entry		
	Injection tube I.D.		
	Check valve type		
	Backfire protection (type)		
Carburetor	Make		
	Model		
	Barrel size		
	Idle speed	Drive Neutral	
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)		
	Make		
	Model		
	Cent' fgal adv. in crank degrees @ eng. rpm	Start (rpm)	
		Intermed. points deg. @ rpm	
		Max. deg. @ rpm	
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	
Intermed. points deg. @ in. Hg			
Max. deg. @ in.			
Vacuum Source			
Timing - Crank degrees @ rpm			
Cooling System (describe changes)			
Exhaust System (describe changes)			

Standard engine provides exhaust emission control

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED ^(*)

MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

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.)	26.5 (Except 24 on Station Wagon)		
	Filler location	Center Rear (Except L.R. Fender on Station Wagon)		
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Locations	Left Front of Engine		
	Pressure range	5.0 - 6.5		
Vacuum booster (std., optional, none)		None		
Fuel Filter	Type	Plastic Fabric in Fuel Tank and Sintered		
	Locations	Bronze in 2-bbl. Carb. Inlet - Pleated Paper in 4-bbl.		
Carburetor	Choke type	Automatic		
	Intake manifold heat control (exhaust or water)	Exhaust		
	Air cleaner type (C)	Standard	Oil Wetted Paper	
		Optional	Two Stage - Wetted Plastic Foam over Paper Element	
Idle speed (spec. neutral or drive) N. D.	Manual N	800 with 2-bbl - 850 with 4-bbl.		
	Automatic D	600 with 400 cu. in. 2 & 4-bbl. - 650 with 428 4-bbl.		
	Idle A/F mix.			

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Bbl. Size	No. of Bbls.
			Make	Model			
252 & 256	400	Manual	Rochester	7028066	One	1.69	2
252 & 256	400	Turbo H-M	Rochester	7028060	One	1.69	2
All w/Reg. Fuel Opt.	400	Turbo H-M	Rochester	7028060	One	1.69	2
262, 266 Std. 252 & 262 Opt.	400	Manual	Rochester	7028263	One	(a)	4
		Turbo H-M	Rochester (b)	7028262	One	(a)	4
All with 428 Engine Opt.	428	Manual	Rochester	7028263	One	(a)	4
		Turbo H-M	Rochester	7028268	One	(a)	4
All with 428 H.O. Engine Opt.	428	Manual	Rochester	7028267	One	(a)	4
		Turbo H-M	Rochester	7028268	One	(a)	4

* All downdraft type.

(a) 1.38 Primary, 2.25 Secondary or Carter

(c) Includes provisions for thermostatic control of carburetor inlet air temperature. Form Rev. 3-67

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MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED ^(a)

MODEL	CATALINA	EXECUTIVE	BONNEVILLE	GRAND PRIX	OPTIONAL 428 CU. IN. ENGINES
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ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure Vented			
Radiator cap relief valve pressure		14-17 P. S. I.			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at (°F)	190°			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM @ 1000 pump rpm	17			
	Number of pumps	One			
	Drive (V-belt, other)	V-Belt			
Bearing type		Sealed Ball Bearing			
By-pass recirculation type (inter., ext.)		Internal			
Radiator core type (cellular, tube and fin, other)		Tube and Center			
Cooling system capacity	With heater (qt.)	18.0	18.6	17.2	
	Without heater (qt.)	Heater Standard Equipment			
	Opt. equipment-specify (qt.)	Same as Above			
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 - Integral		
		Inside diameter	Hose Not Used		
Fan	Number of blades & spacing		4, 76° & 104° (a)(b)(c)		
	Diameter		19		
	Ratio-fan to crankshaft rev.		.91:1 (1.25:1 with A/C)		
	Fan cutout type		Fluid Clutch - Thermostatically Controlled (with A/C)		
	Bearing type		See Water Pump		
* Drive belts (indicate belt used by letter)	Fan	A	B, C	A	B, E
	Generator or alternator	A	B	A	B
	Water Pump	A	B, C	A	B, E
	Power Steering		C		E
	Air Conditioning			D	D

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°						
Nominal Length (SAE)	54.0	50.0	52.0	59.0	53.5						
Width	.38	.38	.47	.47	.47						

(a) Except A/C, 7 blade fan and clutch option and 428 H.O. option.
 (b) 5 blade 19 dia. Power-Flex fan std. on 428 H.O. engine option without A/C.
 (c) 7 blade 19.5 dia. with A/C.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED (a)

MODEL		CATALINA	EXECUTIVE	BONNEVILLE	GRAND PRIX	
ELECTRICAL - SUPPLY SYSTEM		(a)	(b)	(c)		
Battery	Make and Model	Delco Y-59		Delco R-69		
	Voltage Rtg. & Total Plates	12-54		12-66		
	SAE Designation & Amp. Hr. Rtg.	2 SM 53 Amp. Hr.		2 ST 70 Amp. Hr.		
	Location	Under Hood - L.H. Side				
Terminal grounded		Negative				
Generator or Alternator	Make	Delco-Remy				
	Model	1100699 (d)		1100801 (e)		
Type and rating		Diode Rectified, 3 Phase Alternating Current, 42 Amp.				
Output at engine idle (neutral)		7-12 Amps.				
Ratio-Gen. to Cr.'s rev.		2.74:1 (3.02:1 With A/C)				
Regulator	Make	Delco-Remy		(g)		
	Model	1119511 (f)		(g)		
	Type		Regulating Contacts in Standard Type (g)			
	Cutout Relay	Closing voltage generator rpm	Cutout Relay Not Required (g)			
		Reverse current to open	Cutout Relay Not Required (g)			
	Voltage Regulator	Voltage	13.8 (g)			
		Current	Alternator Self Regulating (g)			
Test conditions	Temperature	125° (g)				
	Load	10 Amps. (g)				
Other		Cycle Regulator Before Final Setting (g)				

ELECTRICAL - STARTING SYSTEM Regular Fuel Engines (h) Premium Fuel Engines

Starting Motor	Make	Delco-Remy			
	Model	1107293		1107355	
	Rotation (drive end view)	Clockwise			
Motor control	Switch (solenoid, manual)	Solenoid			
	Starting procedure	Place gearshift lever in neutral and depress clutch. *With cold engine depress accelerator pedal to floor and release. With warm engine hold accelerator pedal about halfway down, turn ignition key clockwise to engage starter, release key as soon as engine starts. *Use neutral or park with automatic transmission. (No clutch)			
	Engagement type	Sliding Gear - Overrunning Clutch			
Motor Drive	Pinion meshes (front, rear)		Front		
	Number of teeth	Pinion	9		
		Flywheel	Manual	166	
	Auto.		166		
	Flywheel tooth face width	Manual	.40		
Auto.		.40			

(a) Regular fuel engines.

(b) Premium fuel engines.

(c) Heavy duty battery option.

(d) 1100700 (55 Amp.) with A/C.

(e) 1100800 (55 Amp.) with A/C.

(f) 1116370 transistor regulator with 62 Amp. H.D. alternator option.

(g) Grand Prix and optional integral regulator alternators do not use external regulator.

(h) Except Turbo Hydra-Matic optional models which use 1107355.

AMA Specifications—Passenger Car

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MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.	Standard					
	Transistorized – Std., Opt., N.A.	Not Offered					
	Other (specify)	--					
Coil	Make	Delco-Remy					
	Model	1115244					
	Amps	Engine stopped	3.2 - 3.6				
		Engine idling	1.9 - 2.3				
Distributor	Make	Delco-Remy					
	Model	(a)	(b) & (c)	(d) & (e)	(f)	(g)	
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	800	800	1100	800	1100
		Intermediate points deg. @ rpm	15 - 19 @ 1900	10 - 14 @ 2000	10 - 14 @ 2000	12 - 16 @ 2000	12 - 16 @ 2000
		Max. deg. @ rpm	30-34 @ 4550	18-22 @ 4600	18-22 @ 4600	20-24 @ 4600	20-24 @ 4600
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	8 - 10	10 - 12	10 - 12(h)	10 - 12	8 - 10
		Intermediate points, deg. @ in. Hg.	None				
		Max deg. in. Hg.	20° @ 15 - 17	20° @ 17 - 19	20° @ 17 - 19(h)	20° @ 17 - 19	20° @ 15-17
		Breaker gap (in.)	.016				
		Cam angle (deg.)	28 - 32				
	Breaker arm tension (oz.)	19 - 23					
Timing	Crankshaft deg. @ rpm	9° BTDC					
	Mark location	Crankshaft Pulley Hub					
Spark Plug	Make	AC					
	Model	45S (44S on all 428 engines)					
	Thread (mm)	14 mm					
	Tightening torque (lb. ft.)	15 - 25					
	Gap	.033 - .035					
Cable	Conductor type	Carbonized Thread					
	Insulation type	Neoprene					
	Spark plug protector	Hypalon Boot					

ELECTRICAL – SUPPRESSION

Locations & type

Carbonized thread core secondary cables and engine to dash ground strap on all cars. Radio equipped cars have an additional engine to dash ground strap. fender skirt to frame ground straps and an engine to frame ground strap and a condenser on the voltage regulator - solid state regulator used in Grand Prix (optional in other series) alternator does not require condenser.

- (a) 1111272 Used on all regular fuel engines
- (b) 1111300 400 cu. in. premium fuel engines with Turbo Hydra-Matic transmission
- (c) 1111270 428 H.O. engine with Turbo Hydra-Matic transmission
- (d) 1111448 400 cu. in. premium fuel engines with manual transmission
- (e) 1111449 428 H.O. engine with manual transmission
- (f) 1111435 428 engine with Turbo Hydra-Matic transmission
- (g) 1111450 428 engine with manual transmission
- (h) 1111448 only - 1111449 is same as 1111450

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MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Mechanical
	Trip odometer (yes,no)	No
Charge indicator – type		Ammeter
Temperature indicator – type		Telltale Lamp
Oil pressure indicator – type		" "
Fuel indicator – type		Electric Gage
Other	Optional instrument cluster with temperature and oil pressure telltales replaced by gages.	
Windshield wiper	Type – Standard	Two-Speed Electric with Concealed Articulated Arms
	Type – Optional	None
Windshield washer	Type – Standard	Electric - Pump Integral with Wiper Motor
	Type – Optional	None
Horn	Type	Solenoid
	Number used	Two
	Amp draw (each)	4.3 - 5.9 Amps. @ 12.5 V

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	Own-Dry		
Type pressure plate springs	Disc Spring		
Total spring load (lb.)	2050	2450	
No. of clutch driven discs	One		
Clutch facing	Material	Woven Molded Asbestos	
	Outside & inside dia.	10.4 x 6.5	11.0 x 6.5
	Total eff. area (sq. in.)	85.56	104.01
	Thickness	.140	.135
Engagement cushioning method	Driven Plate Waved Spoke Springs		
Release bearing	Type & method of lubrication	Ball Thrust - Prepacked & Sealed	
Torsional damping	Methods: springs, friction material	Coil Springs - Metal to Metal Friction	Coil Springs - Metal to Plastic Friction

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MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3-Speed - Standard	4-Speed - Optional (b)	
Transmission ratios	In first	2.42:1	2.52:1	
	In second	1.61:1	1.88:1	
	In third	1.00:1	1.46:1	
	In fourth	--	1.00:1	
	In reverse	2.33:1	2.59:1	
Synchronous meshing, specify gears		All Forward		
Shift lever location		Steering Column (a)	Floor	
Lubricant	Capacity (pt.)	5	2.5	
	Type recommended	Type A - Extreme Pressure		
	SAE viscosity number	Summer	80 or 90	
		Winter	80 or 90	
		Extreme cold	80 or 90	

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

- (a) Floor shift optional on all except Grand Prix where floor shift is standard.
- (b) Special order close ratio transmission (2.20:1, 1.64:1, 1.28:1, 1.00:1 and 2.27:1 R) available with 4.11:1 rear axle ratio only.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED ^(*)

MODEL	CATALINA	EXECUTIVE & BONNEVILLE	GRAND PRIX
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DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Turbo Hydra-Matic			
Type describe	Torque Converter			
Selector location	Steering Column (e)			Floor Console (f)
List gear ratios Selector Pattern and indicate which are used in each selector position	<u>R</u>	<u>D</u>	<u>S</u>	<u>L</u>
	2.08:1	2.48:1	2.48:1	2.48:1 (a)
		1.48:1	1.48:1	
		1.00:1		
Max. upshift speed-drive range	59 & 98 (g)	55 & 95 (h)	53 & 91 (i)	
Max. kickdown speed-drive range	3-2 @ 88, 3-1 @ 30	3-2 @ 85, 3-1 @ 30	3-2 @ 81, 3-1 @ 30	
Torque converter	Number of elements Three			
	Max. ratio at stall 2.05:1 (a)			
	Type of cooling (air, liquid) Water			
	Nominal diameter 12.5			
Lubricant	Capacity—refill (pt.) 19 (approx.)			
	Type recommended GM Dexron Automatic Transmission Fluid			
Special transmission features	Shift lever must be lifted over stop to enter "Park", "Reverse" and "Low" ("S" on 400) positions. Engine starting on "Neutral" and "Park" positions provided for.			

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.	3.00 x 56.4 x .065 (b)	
		3.25 x 59.3 x .065 (c)	
	Manual 4-speed trans.	3.00 x 56.4 x .065 (b)	
		3.25 x 59.3 x .065 (c)	
	Overdrive transmission	Not Available	
	Automatic transmission	3.38 x 56.4 x .065 (b) (d)	
		3.38 x 59.3 x .065 (c)	

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

(Continued)

- (a) Total torque multiplication in first gear is 5.09:1.
- (b) Catalina, Grand Prix and all station wagons.
- (c) Executive and Bonneville except station wagons.
- (d) Dia. reduced to 3.00 with 2.29:1 and 2.41:1 rear axle ratios only.
- (e) Floor - with optional console.
- (f) Steering column with bench seat options.
- (g) Indicated M. P. H. with 8.25 x 14 tires and 2.41:1 rear axle ratio.
- (h) Indicated M. P. H. with 8.55 x 14 tires and 2.56:1 rear axle ratio.
- (i) Indicated M. P. H. with 8.55 x 14 tires and 2.73:1 rear axle ratio.

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MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

DRIVE UNITS — PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	Not Used
	Lubrication (fitting, prepack)	Not Used
Slip Yoke	Type	Splined
	Number of teeth	28
	Spline O.D.	1.166
Universal joints	Make and Mfg No	Saginaw - Size 44 (Composite)
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	
Bearing	Type (plain, anti-friction)	Anti-Friction
	Lubric. (fitting, prepack)	Prepacked
Drive taken through (torque tube or arms, springs)		Control Arms
Torque taken through (torque tube or arms, springs)		Control Arms

DRIVE UNITS — AXLE

Type (front, rear)	Rear		
Description	Semi-Floating Hypoid		
Limited Slip differential, type	Spring Loaded Clutch (Opt.)		
Drive Pinion Offset	1.75		
No. of differential pinions	2		
Pinion adjustment (shim, other)	Shim		
Pinion bearing adj. (shim, other)	Collapsible Spacer		
Wheel bearing type	Single Row Ball Bearing		
Lubricant	Capacity (pt.)	4.5	
	Type recommended	A-9 Hypoid (a)	
	SAE viscosity number	Summer	80-90
		Winter	80-90
Extreme cold		80-90	

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	2.29:1	2.41:1	2.56:1	2.73:1	2.93:1	3.08:1	3.23:1	3.42:1	3.55:1	3.73:1	4.1
No. of teeth	Pinion	17	17	16	15	14	13	13	12	11	11
	Ring gear	39	41	41	41	41	40	42	41	39	41
Ring Gear O.D.	8.750					8.875					

(a) Special lubricant required with limited slip differential.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED (a)MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

DRIVE UNITS – WHEELS

Type & material		Disc - Steel
Rim (size & flange type)	Std.	14 x 6 JK
	Opt	14 x 6 JK Heavy Duty
		15 x 6 JJ Heavy Duty
Attachment	Type (bolt or stud)	Bolt
	Circle diameter	5.0 (a)
	Number and size	5, 1/2 - 20 (a)

MODEL _____

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply	8.55 x 14 (b), 2 Ply - 4 Ply Rating	
	Type (bias, radial, etc.)	Bias	
	Full rated Inflation Press.	Front	24 - 4 Ply Rating, 26 - 8 Ply Rating (c)
		Rear	28 - 4 Ply Rating, 36 - 8 Ply Rating (c)(d)
Rev./Mile at 50 MPH		8.25 x 14 - 760 8.55 x 14 - 740, 8.85 x 14 - 740	
Optional	Size, ply rating, & ply	8.55 x 14 2 Ply - 4 Ply Rating, Oversize for 8.25 x 14	
		8.85 x 14 2 Ply - 4 Ply Rating, Oversize for 8.55 x 14	
		8.45 x 15 2 Ply - 4 Ply Rating, 15" Wheel Opt, exc. 3-seat SW	
		8.45 x 15 4 Ply - 8 Ply Rating, 15" Wheel Opt. on all models.	
		8.85 x 14 4 Ply - 8 Ply Rating - Opt. on all models.	
		H70 x 15 2 Ply - 4 Ply Rating - Opt. on all Exc. 3-seat SW.	

BRAKES – PARKING

Type of control		Foot Lever Application - Hand Pull 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

(a) 8 bolts on a 10 inch circle used with optional integral aluminum hubs and drums.

(b) Standard on all except: 8.25 x 14 std. on 25269 & 25211 styles without air conditioning and 8.85 x 14 std. on all 3-seat station wagons. 8.55 x 14 std. on 25269 & 25211 with air conditioning.

(c) Optional inflation pressure for reduced loads:
 24 PSI Front all models (Exc. 26 with 8 P.R. Tires)
 24 PSI Rear - all except S.W.
 28 PSI Rear - all S.W. with 4 P.R. Tires
 30 PSI Rear - All S.W. with 8 P.R. Tires(d) Station wagon full rated load inflation pressures:
 2 & 3-Seat models with 4 ply rated tires; 24 F., 32 R.
 3-Seat models with 8 ply rated tires; 26 F., 36 R.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED (a)

MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

BRAKES - SERVICE

Type (drum or disc)		Drum - Standard	Front Disc - Opt.		
Self adjusting (std., opt., N.A.)		Standard			
Power brake make & type (remote, int., etc.)	Std.	--			
	Opt.	Delco-Moraine or Bendix (a)	Bendix (a)		
Effective area (sq. in.)*		187.0	115.0		
Gross lining area (sq. in.)**		193.7	122.5		
Swept area (sq. in.)***		326.9	360.0		
Percent brake effectiveness - front		61.4	61.4		
Drum or Disc	Diameter (nominal)	Front	11.0		
		Rear	11.0		
	Type and material		(b)	Cast Alloy Iron	
	Disc (vented or solid)		--	Vented	
No. pistons per caliper		--	4		
Wheel cylinder bore	Front	1.125	2.062		
	Rear	.938	.938		
Master Cylinder	Bore	1.00	1.125		
	displacement distribution	Front %	55	70	
Rear %		45	30		
Disc Brk. Valve	Type (proportion, delay, metering, other)	--	Metering-Type Delay		
Pedal arc ratio		6.3:1 (Manual) - 2.9:1 (Power)			
Line pressure at 100 lb. pedal load		700 Manual, 900 Power	1200 (Power Only)		
Shoe clearance adjustment		(c)	Spring Loaded		
Brake lining	Drum or Disc		Drum	Disc Front - Drum Rear	
	Bonded or riveted		Riveted		
	Front Wheel	Material		Molded Asbestos	
		Size (length x width x thickness)	Prim. or out-board	8.88 x 2.75 x .22	5.95 x 1.75 x .40
			Second. or in-board	11.52 x 2.75 x .26	5.95 x 1.75 x .40
		Segments per shoe		One	
	Rear Wheel	Material		Molded Asbestos	
		Size (length x width x thickness)	Prim. or out-board	8.88 x 2.00 x .22	
			Second. or in-board	11.52 x 2.00 x .26	
		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) Integral type - vacuum suspended, included with front disc brake option.
- (b) Full cast - front, finned cast alloy iron - rear.
- (c) Tighten drum brake to heavy drag then back off 30 notches.

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MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED (6)

MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

STEERING

Manual (std., opt., NA)		Standard			
Power (std., opt., NA)		Optional			
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilting Wheel - Adjusts Vertically - Seven Positions			
	(std., opt., NA)	Optional			
Wheel diameter	Manual	15.74 x 16.5			
	Power	15.74 x 16.5			
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	46.1	47.0	46.1
		Curb to curb (l. & r.)	42.8	43.7	42.8
	Inside rear	Wall to wall (l. & r.)	25.5	26.1	25.5
		Curb to curb (l. & r.)	26.0	26.6	26.0
Outside whl. angle with inside whl. at 20°		18.4			
Manual	Gear	Type	Recirculating Ball Bearing		
		Make	Saginaw		
	Ratios	Gear	24.1		
		Overall	29.8:1		
	No. wheel turns		5.6		
Power	Type (coaxial, linkage, etc.)		Coaxial	Coaxial - Variable Ratio	
	Make		Saginaw		
	Gear	Type	Recirculating Ball Bearing		
		Ratios	Gear	17.5:1	16.0 to 12.2:1
			Overall	21.7:1	19.8 to 15.1:1
	Pump driven by		Belt From Crankshaft		
	Number wheel turns		4.2	3.5	
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		
Steering Axis	Inclination at camber (deg.)		8.5° @ 1° Camber		
	Bearings (type)	Upper	Ball Joint		
		Lower	Ball Joint		
		Thrust	Thrust Taken by Lower Ball Joint		
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		1°30' Negative +30'		
	Camber (deg.)		0°15' Positive +30'		
	Toe-in (outside track inches)		0 to .125 Toe-in Measured 9 Inches 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		Taper Roller		

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MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

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

SUSPENSION – FRONT

Type and description	Ball joint independent front suspension with upper and lower control arms mounted on rubber bushings.
Spring	Coil
Type	SAE 9260
Material	
Size (coil design height & I.D. bar length x dia.)	10.36 & 4.05
Spring rate (lb. per in.)	275
Rate at wheel (lb. per in.)	79
Stabilizer	Link
Type (link, linkless, frameless)	
Material & bar diameter	SAE 1080, .750 (a)

SUSPENSION – REAR

Type and description	Four Link Pivoted Control Arm
Drive and torque taken through	Control Arms
Spring	Coil
Type	SAE 9260
Material	
Size (length x width, coil design height & I.D.; bar length & dia.)	8.34 & 5.50
Spring rate (lb. per in.)	(b)
Rate at wheel (lb. per in.)	(c)
Mounting insulation type	Rubber
If leaf	No. of leaves
	None
Shackle (comp. or tens.)	None
Stabilizer	Not Used
Type (link, linkless, frameless)	
Material	None
Track bar type	Not Used

(a) Except .687 on all station wagons.

(b) 122 on Catalina (except station wagons), 165 on all station wagons, 138 on all others.

(c) 111 on Catalina (except station wagons), 152 on all station wagons, 127 on all others.

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MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX
 FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)

Perimeter Type with Swept Hips - Boxed on all convertible, station wagon and Grand Prix hardtop. Open Channel Center Side Rail on all other models.

BODY - MISCELLANEOUS INFORMATION

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 Ident. No. location		Left front edge of instrument panel - Visible through windshield.						
Engine No. location		Front of Right Hand Cylinder Bank						
Theft protection - type		Door locks, ign. sw. terminals covered by locked-on connector body, key in lock warning signal, key starter control with in-harness wiring from sw. to starter and coil.						
Vent window control method (crank, friction pivot)	Front	Crank					None	
	Rear	None						
Seat cushion type	Front	(a)					(b)	
	Rear	(c)	(d)			(a)		
	3rd seat	(e)					--	
Seat back type	Front	(f)					(a)	
	Rear	(e)						
	3rd seat	(e)					--	
Windshield glass type (i.e., single curved - laminated plate)		Single Curved Laminated Safety Plate						
Side glass type (i.e., curved - tempered plate)		Compound Curved Solid Tempered Safety Plate						
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound Curved Solid Tempered Safety Plate Except Single Curved on 11, 39, 67 & 69 Styles						
	BODY STYLE	11	69	39	87	67	57	35 & 45
Windshield glass exposed surface area		1448.1	1448.1	1384.3	1384.3	1384.3	1384.3	1448.1
Side glass exposed surface area		1383.0	1348.9	1380.9	1528.8	1414.4	1442.9	2547.7
Backlight glass exposed surface area		1202.0	1202.0	1239.3	1339.8	767.3	1302.7	925.9
Total glass exposed surface area		4033.1	3999.0	4004.5	4252.9	3566.0	4129.9	4921.7

- (a) Zig-zag spring with foam pad.
 (b) Zig-zag spring with contour molded foam pad.
 (c) Zig-zag spring with foam pad except cotton pad on sedan and station wagon.
 (d) Zig-zag spring with foam pad except cotton pad on station wagon.
 (e) Formed wire with cotton pad.
 (f) Zig-zag spring with cotton pad.

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MAKE OF CAR Pontiac MODEL YEAR 1968 DATE ISSUED 8-21-67 REVISED (e)

MODEL CATALINA | EXECUTIVE | BONNEVILLE | GRAND PRIX

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	Optional
	Backlight or tailgate	Standard on 3-Seat, Optional on 2-Seat Station Wagons
Power seats (specify type as well as availability)		Power Tilt* Optional on all L.H. Bucket Front Seats 6 Way Power** Optional on all With Bench Front Seats
Reclining front seat back (R-L or both)		R.H. Optional With Strato Bench or Bucket Seats (a)
Front seat head restrainer (R-L or both)		Optional L & R on All Front Seats
Radios (specify type as well as availability)		AM Push Button, AM-FM Push Button, AM-FM Push Button Stereo
Rear seat speaker		Optional - Also Reverberation Type Optional
Power antenna		Optional
Clock		Optional on Catalina - Standard on All Others
Air conditioner (specify type and availability)		Option A: Reheat cycle with manual control. Option B: Reheat cycle with automatic temperature control.
Speed warning device		Safeguard Speedometer - Optional
Speed control device		Optional on All With Turbo Hydra-Matic Trans.
Ignition lock lamp		Standard
Dome lamp		Standard on All Except Convertible
Glove compartment lamp		Standard
Luggage compartment lamp		Standard
Underhood lamp		Optional
Courtesy lamp		Standard (Front and Rear on Convertible)
Map lamp		Same as Courtesy
Auto. trans. quad. lamp		Standard
Cornering light lamp		Optional
Oil Pressure Gage		Available in Optional Auxiliary Gage Unit
Water Temperature Gage		Available in Optional Auxiliary Gage Unit
Low Fuel Warning Lamp		Optional (b)
Roof Rail & Reading Lamp		Optional - All Except Convertible
Power Operated Door Locks		Optional
Elec. Luggage Compt. Lid Release		Optional
Stereo Tape Player		Optional in Combination With Any Radio

LAMP HEIGHT AND SPACING

		252 & 256 Exc. S. W.	262 Exc. S. W.	All Sta. Wgn.	266	
Height above ground to center of bulb or marker	Headlamp	Highest *	24.4	24.3	24.4	
		Lowest	24.4	24.3	24.4	
	Tail	Highest	25.8	26.2	27.8	26.3
		Lowest	24.4	24.0	27.8	25.8
Sidemarker	Front	15.8	15.6	15.6	15.6	
	Rear	19.6	20.0	29.3	19.3	
Distance from C/L of car to center of bulb	Headlamp	Inside		25.5	25.5	
		Outside *		32.0	31.8	
	Tail	Inside	21.2	21.0	33.1	14.5
		Outside	33.0	33.2	33.1	33.3
	Directional	Front			31.8	
		Rear			Same as Tail Lamp	

* Fore and aft plus elevation at rear edge.

** Fore and aft plus elevation at front and rear edges.

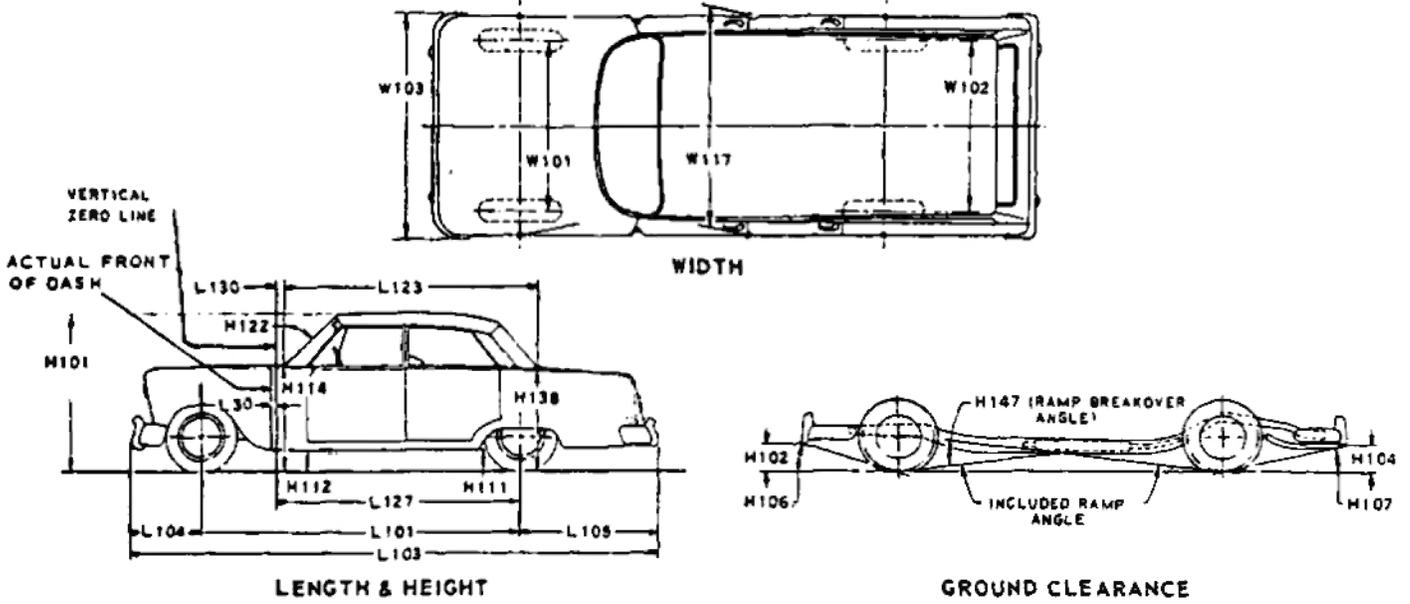
(a) On Grand Prix or Bonneville

(b) Also included in Safeguard Speedometer Option.

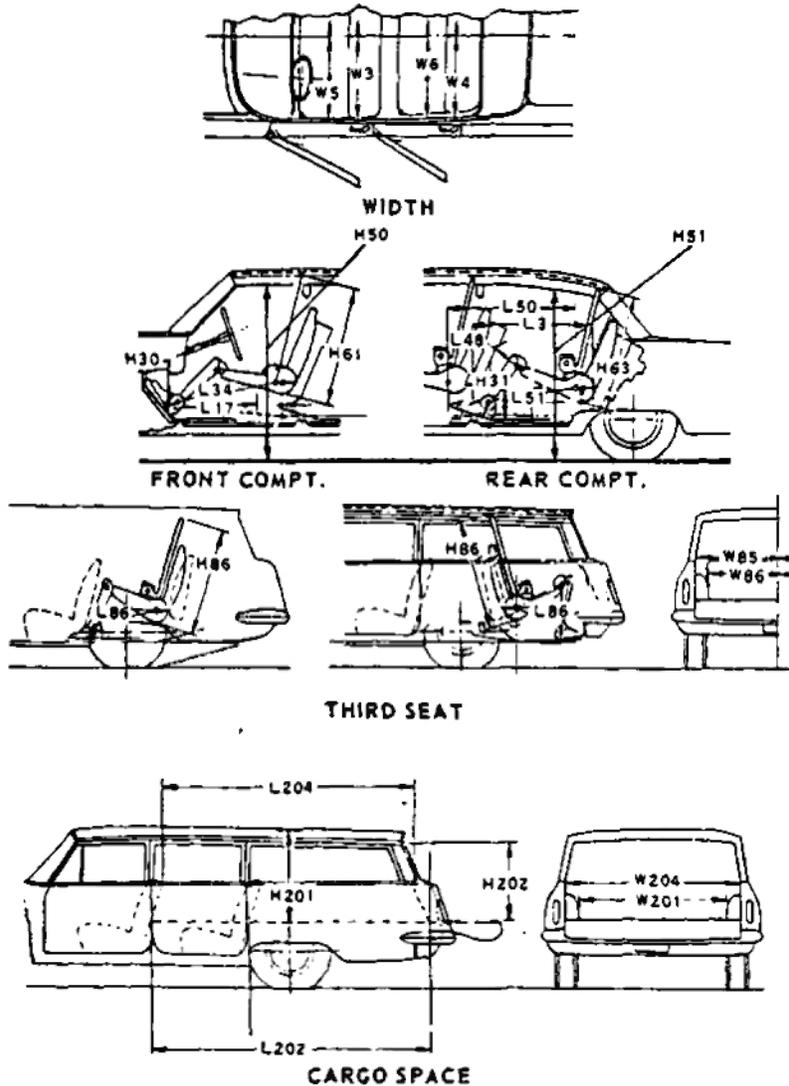
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



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. This dimension may be determined by calculation (see Design Standard DD 0.00 - 108) or graphically for reporting purposes.
 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 tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 - 105.
 H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radius.

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.

W4xL204xH201

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