

AMA Specifications—Passenger Car

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

MANUFACTURER	Pontiac Motor Division General Motors Corporation	CAR NAME	Pontiac
MAILING ADDRESS	Pontiac, Michigan 48053	MODEL YEAR	1966
		ISSUED:	9-2-65
		REVISED (*)	11-5-65

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 standard models without optional equipment. Significant deviations are noted.
 - Nominal design dimensions are used throughout these specifications.

TABLE OF CONTENTS

General Specifications 1,2
 Engine—Mechanical 3
 Electrical 12

Drive Units 14
 Brakes 18
 Steering 19

Suspensions 21
 Weights 24
 Index 25

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	2 + 2	Star Chief 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	25237	25437*	25637	26237	26657*
Convertible	6	25267	25467*		26267	
Station Wagon, 4-Dr. 2-Seat		25235				
Station Wagon, 4-Dr. 3-Seat		25245			26245	

*5 Passenger Capacity - Bucket Front Seats Standard

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED ^(a)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated).

MODEL		Additional Information Page No.:	Catalina 25269	Star Chief Executive 25669	Bonneville 26239	Grand Prix 26657	2 + 2 25437
Wheelbase (L101)			121	124 (a)		121	
Track	Front (W101)		63				
	Rear (W102)		64				
Maximum Overall Dimensions	Length (L103)		214.8 (b)	221.8 (b)		214.8	
	Width (W103)		79.7				
	Height (H101)		55.3		54.3	53.9	54.4
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard				
	Manual - 4 speed	15	Optional				
	Overdrive	15	Not Available				
	Automatic	16	Turbo Hydra-Matic Optional				
Axle ratio	Manual - 3 speed	17	3.23:1				3.42:1
	Manual - 4 speed	17	3.42:1				
	Overdrive	17	None				
	Automatic	17	2.41:1	2.56:1		2.73:1	3.23:1
Tire size		18	8.25 x 14 (c)				
Engine	Type, no. cyl., valve arr.	3	90°V, 8, In-Head				
	Fuel system (Carb., other)	10	Carburetor				
	Bore and stroke	3	4.0625 x 3.746 4.0649 x 3.754				4.0937 x 3.996 4.0961 x 4.006
	Piston displ., cu. in.	3	389				421
	Std. compression ratio	3	8.6:1		10.5:1		
	Max. bhp at engine rpm	3	256 @ 4600		333 @ 5000		338 @ 4600
	Max. torque at rpm	3	388 @ 2400		429 @ 3200		459 @ 2800

(a) Except 121 on 26245 style.

(b) Except 218.1 on 25235, 25245, & 26245 styles.

(c) Except 8.55 x 14 standard on station wagons and all styles with air conditioning.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED ^(a)

GENERAL SPECIFICATIONS—DIMENSIONS

(All dimensions in inches unless otherwise indicated)
(Supplemental data available on request)

MODEL	SAE Ref. No.	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2
		25269	25669	26239	26657	25437

FRONT COMPARTMENT

Shoulder room	W3	62.3	62.3	62.3	62.4	62.3
Hip room	W5	63.7	63.6	63.7	63.8	63.6
Max. eff. leg room - accelerator	L34	42.6	42.7	42.3	42.3	42.3
Effective head room	H61	38.4	38.3	37.8	37.7	38.2
H Point to Heel point	H30	9.0	8.8	8.5	8.3	8.3

REAR COMPARTMENT

Shoulder room	W4	61.3	61.2	61.3	61.0	61.1
Hip room	W6	62.8	62.8	62.9	55.3	55.3
Minimum effective leg room	L51	38.3	38.1	37.5	35.2	35.2
Effective head room	H63	37.7	37.6	37.2	37.1	37.1

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	19.2	23.4	23.4	18.9	18.9
Liftover height	H195	29.0	29.0	29.0	29.0	29.0
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 and Bonneville 26245

Hip room	W86	48.9
Effective leg room	L86	33.2
Effective head room	H86	36.2
Seat facing direction		Rearward

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	Catalina		Bonneville
		25235	25245	26245
Minimum distance between wheel houses at floor level	W201	48.9		
Rear end opening width at belt	W204	52.4		
Floor length from back of front seat at floor level to inside of closed tail gate	L202	93.7		93.5
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	84.5		
Maximum height - floor covering to headlining at centerline of rear axle	H201	30.6		30.3
Maximum height of rear opening - tail and lift gates open	H202	28.7		28.4
Cargo volume index (cu. ft.) - $\frac{W4 \times L204 \times H201}{1728}$	V2	91.7 (a)		90.8 (a)

(a) Add 8.9 cu. ft. for compartment under floor on 25235 style - add 4.2 cu. ft. for 25245 and 26245 (3-seat) styles.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)
MODEL	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2	

ENGINE—GENERAL

Type, no. cyls., valve arr.		90°V, 8. In-Head	
Bore and stroke (nominal)		4.0625 x 3.746	4.0937 x 3.996
		4.0649 x 3.754	4.0961 x 4.004
Piston displacement, cu. in.		389	421
Bore spacing (C/L to C/L)		4.629	
No. system (front to rear)	L. Bank	1 - 3 - 5 - 7	
	R. Bank	2 - 4 - 6 - 8	
Firing order		1 - 8 - 4 - 3 - 6 - 5 - 7 - 2	
Compres. ratio (nominal)		8.6:1	10.5:1
Cylinder Head Material		Alloy Cast Iron	
Cylinder Block Material		Alloy Cast Iron	
Cylinder Sleeve-Wet, dry, none		None	
Number of mounting points	Front	Two	
	Rear	One	
Engine Installation angle		4°	
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	52.8	53.6
Publishing max. bhp* @ eng. RPM		256 @ 4600	333 @ 5000
Publishing max. torque* (lb. ft. @ RPM)		338 @ 2400	429 @ 3200
Recommended fuel regular - premium		Regular (b)	Premium
Idle speed (spec. neutral or drive)	Manual	600 (In Neutral)**	
	Automatic	500 (In Drive)**	

ENGINE—PISTONS

Material	Aluminum Alloy				
Description and finish	Cam Ground Slipper Type - Tin Plated				
Weight (piston only) oz.	21.605 - 21.792		20.12 - 20.26		
Clearance (limits)	Top land	.0177 - .0230		.0252 - .0305	
	Skirt	Top	.0022 - .0028 (a)		.0030 - .0036 (a)
		Bottom	.0017 - .0033		.0025 - .0041
Ring groove depth	No. 1 ring	3.609 - 3.619		3.641 - 3.651	
	No. 2 ring	3.609 - 3.619		3.641 - 3.651	
	No. 3 ring	3.644 - 3.654		3.656 - 3.666	
	No. 4 ring	None		None	

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

** All except California cars which require 100 RPM higher speed.

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

(b) Premium fuel required with standard engine for Turbo Hydra-Matic equipped cars and optional engines having a compression ratio of 10.5:1 or 10.75:1.

AMA Specifications – Passenger Car

Page 4

MAKE OF CAR PONTIAC MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED (e)

POWER TEAMS

(Indicate whether standard or optional)

Model Availability		ENGINE				TRANSMISSION	AXLE RATIO (Std. first)
Catalina	252	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM		
Star Chief Executive	256						
Bonneville	262						
Grand Prix	266						
2 + 2	254						
STANDARD ENGINES							
252 & 256	389	2-Bbl.	8.6:1	256 @ 4600	388 @ 2400	Manual ^d ₇	3.23:1, 3.08:1 (b) (c)
262	389	4-Bbl.	10.5:1	333@	429 @	Manual (a)	3.23:1, 3.08:1 (b) (c)
266	389	4-Bbl.	10.5:1	5000	3200	Manual (a)	3.23:1, 3.42:1 (b) (c)
254	421	4-Bbl.	10.5:1	338 @ 4600	459 @ 2800	Manual (a)	3.42:1 (b) (e)
OPTIONAL ENGINES							
Regular Fuel - Automatic							
252, 256 & 262	389	2-Bbl.	8.6:1	256 @	388 @	Turbo Hydra-Matic	2.41:1 (f) (k)
266	389	2-Bbl.	8.6:1	4600	2400	Turbo Hydra-Matic	2.56:1 (j)
Standard - Automatic							
252	389	2-Bbl.	10.5:1	290 @	418 @	Turbo Hydra-Matic	2.41:1, 2.93:1 (f) (m)
256	389	2-Bbl.	10.5:1	4600	2400	Turbo Hydra-Matic	2.56:1, 2.41:1, 2.93:1 (j)
262	389	4-Bbl.	10.5:1	325 @	429 @	Turbo Hydra-Matic	2.56:1, 2.41:1, 2.93:1 (j) (n)
266	389	4-Bbl.	10.5:1	4800	2800	Turbo Hydra-Matic	2.73:1, 2.56:1, 3.08:1 (g)
254	421	4-Bbl.	10.5:1	338 @ 4600	459 @ 2800	Turbo Hydra-Matic	3.23:1 (d)
Premium Fuel Engine Options							
252 & 256	389	2-Bbl.	10.5:1	290 @ 4600	418 @ 2400	Manual (a)	3.23:1, 3.08:1 (b) (c)
252 & 256	389	4-Bbl.	10.5:1	333 @ 5000	429 @ 3200	Manual (a)	3.23:1 (b) (c)
252 & 256	389	4-Bbl.	10.5:1	325 @ 4800	429 @ 2800	Turbo Hydra-Matic	2.73:1, 2.41:1 (g)
421 4-Barrel Carburetor Option							
252, 256, 262 & 266	421	4-Bbl.	10.5:1	338 @	459 @	Manual (a)	3.23:1 (b) (c)
252, 256, 262, & 266	421	4-Bbl.	10.5:1	4600	2800	Turbo Hydra-Matic	3.08:1, 2.56:1, 3.23:1 (h)
421 3-2 Barrel Carburetor Option							
252, 256, 262 & 266	421	3-2 Bbl.	10.75:1	356 @	459 @	Manual (a)	3.23:1 (b) (c)
254	421	3-2 Bbl.	10.75:1	4800	3200	Manual (a)	3.42:1 (c)
252, 256, 262 & 266	421	3-2 Bbl.	10.75:1			Turbo Hydra-Matic	3.08:1, 2.73:1 (h)
254	421	3-2 Bbl.	10.75:1			Turbo Hydra-Matic	3.23:1 (d)
421 H.O. 3-2 Barrel Carburetor Option							
252, 254, 256, 262 & 266	421	3-2 Bbl.	10.75:1	376 @	461 @	Manual (a)	3.42:1 (c)
252, 254, 256, 262 & 266	421	3-2 Bbl.	10.75:1	5000	3600	Turbo Hydra-Matic	3.23:1 (d)

(a) 3-speed standard, 4-speed optional

(b) 3.42:1 ratio with optional 4-speed manual transmission with or without air conditioning

(c) 3.23:1 ratio with air conditioning

(d) 3.08:1 ratio with air conditioning

(e) 3.42:1 ratio with air conditioning

(f) 2.41:1 ratio with air conditioning

(g) 2.73:1 ratio with air conditioning

(h) 2.93:1 ratio with air conditioning

(j) 2.56:1 ratio with air conditioning

(k) except 26245 and 26267 models which are 2.56:1

(m) except 25235, 25237 & 25267 models which are same as 256 series

(n) except 26245 and 26267 which use 2.73:1, 2.56:1, 3.08:1 (g)

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(a)
MODEL	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2	

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression	
	No. 2, oil or comp.	Compression	
	No. 3, oil or comp.	Oil	
	No. 4, oil or comp.	None	
Compression	Description - material, coating, etc.	Cast Iron - Taper Faced No. 1 Channel Moly Filled No. 2 Lubrite Finish	Cast Iron - Taper Face No. 1 Channel Moly Fil No. 2 Tin Plated /le
	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	
	Bushing	In rod or piston	None
		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.)	30.7	
Length (center to center)	6.625	
Bearing	Material & Type	Moraine 100-A (b)
	Overall length	.88
	Clearance (limits)	.0005 - .0025
	End play	.006 - .011 (Total for Two)

(a) Optional 421 H.O. engines use channel moly filled reverse twist rings in both No. 1 and No. 2 locations.

(b) Steel backed - removable, precision.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)	
MODEL	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2		

ENGINE—CRANKSHAFT

Material	Nodular Iron		(c)
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**	
	Journal dia. and bearing overall length	No. 1	3.00 x .094 (a)
		No. 2	3.00 x .094 (a)
		No. 3	3.00 x .094 (a)
		No. 4	3.00 x 1.13 (b)
		No. 5	3.00 x 1.59 (a)
		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 Babbitt on Steel	
	Number	5	
Type of Drive	Chain		
	Gear or 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	1.5:1	
Operating tappet clearance (indicate hot or cold)	Intake	0
	Exhaust	0
Timing marks on flywheel, damper, other	(See page 13)	

* M-400 in lower half of No. 4 and in all locations on 421 engines.

** .0005 - .0026 on 2 + 2 and all optional 421 cu. in. engines.

(a) 3.25 dia. on 2 + 2 and all optional 421 cu. in. engines.

(b) 3.25 x 1.19 on 2 + 2 and all optional 421 cu. in. engines.

(c) Pearlitic malleable iron on 2 + 2 and all optional 421 cu. in. engines.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(a)
		389 Cu. In. Engines		421 Cu. In. Engines		
MODEL		2-Bbl. Carb. - Regular Fuel	All Premium Fuel Engines	421 Except H. O.	421 H. O.	

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	22	30	23	31	
		Closes (°ABC)	67	63	70	77	
		Duration-deg.	269	273	273	288	
	Exhaust	Opens (°BBC)	72	77	78	90	
		Closes (°ATC)	25	25	31	32	
		Duration-deg.	277	282	289	302	
	Valve opening overlap		47	55	54	63	
Intake	Material		SAE - 1041 with Aluminum Treatment on Face				
	Overall length		4.74	4.89	4.91	4.91	
	Actual overall head dia.		1.917 - 1.923				
	Angle of seat & face		30° Seat - 29° Face				
	Seat insert material		Not Used				
	Stem diameter		.34				
	Stem to guide clearance		.0021 - .0038				
	Lift (@zero lash)		.370 + .011	.406 + .011	.406 + .011	.409 + .011	
	Outer spring press. and length	Valve closed (lb.@ in.)	57 @ 1.586	57 @ 1.586	59 @ 1.586 (a)	59 @ 1.586	
		Valve open (lb.@ in.)	63 @ 1.216	63 @ 1.180	65 @ 1.180 (a)	65 @ 1.177	
	Inner spring press. and length	Valve closed (lb.@ in.)	106 @ 1.216	111 @ 1.180	126 @ 1.180 (a)	128 @ 1.177	
		Valve open (lb.@ in.)	114 @ 1.566	119 @ 1.566	136 @ 1.566 (a)	138 @ 1.566	
		Valve closed (lb.@ in.)	23 @ 1.566	23 @ 1.566	28 @ 1.566 (a)	28 @ 1.566	
		Valve open (lb.@ in.)	29 @ 1.196	29 @ 1.160	34 @ 1.160 (a)	34 @ 1.157	
	Exhaust	Material		21-4 N with Aluminum Treatment on Face			
		Overall length		4.62	4.88	4.88	4.88
Actual overall head dia.		1.637 - 1.663					
Angle of seat & face		45° Seat - 44° Face					
Seat insert material		Not Used					
Stem diameter		.34					
Stem to guide clearance		.0026 - .0043					
Lift (@zero lash)		.406 + .011	.409 + .011	.408 + .011	.409 + .011		
Outer spring press. and length		Valve closed (lb.@ in.)	.406 + .011	.409 + .011	.408 + .011	.409 + .011	
		Valve open (lb.@ in.)	57 @ 1.586	57 @ 1.586	59 @ 1.586 (a)	59 @ 1.586	
		Valve closed (lb.@ in.)	63 @ 1.180	63 @ 1.177	65 @ 1.178 (a)	65 @ 1.177	
		Valve open (lb.@ in.)	111 @ 1.180	111 @ 1.177	128 @ 1.178 (a)	128 @ 1.177	
Inner spring press. and length		Valve closed (lb.@ in.)	119 @ 1.566	119 @ 1.566	138 @ 1.566 (a)	138 @ 1.566	
		Valve open (lb.@ in.)	23 @ 1.566	23 @ 1.566	28 @ 1.566 (a)	28 @ 1.566	
		29 @ 1.160	29 @ 1.157	34 @ 1.158 (a)	34 @ 1.157		
		60 @ 1.160	61 @ 1.157	92 @ 1.158 (a)	92 @ 1.157		
		67 @ 1.160	67 @ 1.157	98 @ 1.158 (a)	99 @ 1.157		

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

(a) Except 4-Bbl. automatic transmission engine which is same as 389 premium fuel eng

(b) Except with manual transmission where spring loads are: 47.5-52.5 @ 1.566 and 110-120 @ 1.157.

MAKE OF CAR Pontiac MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED 11-5-65

	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2
--	----------	----------------------	------------	------------	-------

MODEL _____

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)	Stationary Screen		
Oil filter system (full flow, partial, other)	Full Flow		
Filter replacement (element, complete)	Complete		
Capacity of crankcase, less filter-refill (qt.)	6		
Oil grade recommended (SAE viscosity and temperature range)	Anticipated Lowest Temp.	Single Viscosity	Acceptable
	Above Freezing (+32°F.)	SAE Number	Alternate
	Below Freezing (0°F. to 32°F.)	20W	10W-30
	Below Zero	10W	10W-30
Engine Service Requirement (MM, MS, etc.)		5W	5W-20
		MS	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single With Crossover	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One Reverse Flow With Separate Resonator	Two Reverse Flow With Separate Resonators
Exhaust pipe dia. Branch	2.00 x .076	Not Used
(O.D., wall thickness) Main	2.25 x .076	2.00 x .060
Tail pipe diameter (O.D. & wall thickness)	2.50 x .048 Aluminized (a)	2.00 x .048 (b) 2.50 x .048

ENGINE— CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	None
Control Unit	Make and model	AC Type CV 679
	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)	Breather Cap (d)
	Flame arrestor (screen, check valve, other)	Check Valve

* 45 to 50 above 2600 RPM on 2 + 2 and optional 421 cu. in. engines.

(a) 2.00 x .048 outlet - all except Catalina 3-speed manual with 2-bbl. carburetor where 2.00 x .048 tail pipe and 1.75 x .048 outlet is used.

(b) Aluminized - outlet 1.75 x .048.

(c) Aluminized - outlet 2.00 x .048.

(d) Closed crankcase vent system (for California) takes air through air filter element in carburetor air cleaner.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED ^(a)

MODEL	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2
-------	----------	-------------------------	------------	------------	-------

ENGINE—EXHAUST EMISSION CONTROL

Type (Air Injection, engine modifications, other)		Air Injection	
Air Injection Pump	Type	Vane	
	Displacement	19.3	
	Drive ratio	1.20:1 (a)	
	Drive type	Belt	
	Relief valve (type)	Spring Loaded Disc	
	Filter (describe)	Carburetor Air Cleaner	
Air Injection System	Air distribution (head, manifold, etc.)	Cylinder Head	
	Point of entry	Exhaust Port	
	Injection tube I.D.	None - Dia. Drilled Hole	
	Check valve type	Viton Disc	
	Backfire protection (type)	Vacuum Diaphragm	
Carburetor	Make	Same as Std.	
	Model	Special	
	Barrel size	Same as Std.	
	Idle speed	600 RPM (Automatic Trans.)	
Distributor	Drive	(b)	
	Aux. Adv. Systems (type)	None	
	Make	Delco-Remy	
	Model	No Change From Standard	
	Cent'gal adv. in crank degrees @ eng. rpm.	Start (rpm)	No Change From Standard
		Intermed. points deg. @ rpm	No Change From Standard
		Max. deg. @ rpm.	No Change From Standard
	Vacuum adv. in. crank degrees @ eng. rpm.	Start (in Hg)	No Change From Standard
		Intermed. points deg. @ in. Hg	
		Max. deg. @ in.	
Vacuum Source	Spark Port In Carburetor		
Timing - Crank degrees @ rpm	6° BTC @ RPM		
Cooling System (describe changes)	Fan pitch increased on all except Grand Prix. Higher radiator capacity and heavy duty fan clutch added with optional air conditioning.		
Exhaust System (describe changes)	No Change		

(a) 1.44:1 with Air Conditioning.

(b) Emission control system not available on manual transmission cars.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac		MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)
MODEL	Catalina	Star Chief	Bonneville	Grand Prix	2 + 2		
		Executive					

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 (gals.)		26.5 (except 24.0 on Station Wagon)	
	Filler location		Center Rear (except L.R. Fender on Sta. Wgn.)	
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	
	Locations		Sintered Bronze in Carburetor Inlet	
Carburetor	Choke type		Automatic	
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air cleaner type	Standard	Oiled Plastic Foam	
		Optional	None	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type *	Barrel Size	No. Bbls
			Make	Model			
252 & 256	389	Manual	Rochester	7026066	One	1.688	2
All with Reg. Fuel Opt.	389	Automatic	Rochester	7026060	One	1.688	2
252 & 256	389	Automatic	Rochester	7026060	One	1.688	2
262 & 266 Std.							
252 & 256 Opt.	389	Manual	Carter	AFB 4033 S	One	(a)	4
262 & 266 Std.							
252 & 256 Opt.	389	Automatic	Carter	AFB 4034 S	One	(a)	4
254 Std. & All With							
421 4-Bbl. Opt.	421	Manual	Carter	AFB 4033 S	One	(a)	4
254 Std. & All With							
421 4-Bbl. Opt.	421	Automatic	Carter	AFB 4037 S	One	(a)	4
All 421 With 3-2							
Bbl. Opt. & All							
421 H.O. Opt.	421	Manual	Rochester	7025078	1-Front	1.688	2
		Manual	Rochester	7026075	1-Center	1.688	2
		Manual	Rochester	7025079	1-Rear	1.688	2
		Automatic	Rochester	7024078	1-Front	1.688	2
		Automatic	Rochester	7026074	1-Center	1.688	2
		Automatic	Rochester	7024079	1-Rear	1.688	2

(a) 1.438 Primary, 1.688 Secondary.

* All Downdraft Type.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(a)	
		Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2	
MODEL							

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° F. ?							
Water pump	Type (centrifugal, other)		Centrifugal							
	GPM @ 1000 pump rpm		19							
	Number of pumps		One							
	Drive (V-belt, other)		V-Belt							
	Bearing type		Sealed Ball Bearing							
By-pass recirculation type (internal, external)			Internal							
Radiator core type (cellular, tube and fin, other)			Tube and Center							
Cooling system capacity	With heater (qt.)		20.0						19.5	
	Without heater (qt.)		Heater Standard Equipment							
	Opt. equipment-specify (qt.)		Same as Above							
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-Moulded							
		Inside diameter	1.75							
	Upper	Number and type (molded, straight)	One-Moulded							
		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)							
	Diameter		19							
	Ratio fan to crankshaft rev.		.91 (b)							
	Fan cutout type		Fluid Clutch - Thermostatic Control (c)							
Bearing type			See Water Pump							
*Drive belts (indicate belt used by letter)	Fan		A	B, C	E	C	A	B, H	D, E	H
	Alternator		A	B	D, E	F	A	B	D, E	F
	Water Pump		A	B, C	E	C	A	B, H	E	H
	Power Steering			C		C		H		H
	Air Conditioning						G	G	G	G
	Air Injection Pump				D	F			D	F

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°	36°	36°	36°			
Nominal length (SAE)	54.0	50.5	52.5	68.0	56.0	62.0	59.0	54.0			
Width	.38	.38	.47	.38	.38	.38	.47	.47			

(a) Exc. A/C, 7 blade fan & clutch option, H.D. cooling & 421 H.O. engine opt.
 (b) Exc. A/C which is 1.13.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED ^(a)

	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2
--	----------	----------------------	------------	------------	-------

ELECTRICAL—SUPPLY SYSTEM		Regular Fuel Engines	Premium Fuel Engines	Heavy Duty Battery Option
Battery	Make and Model	Delco 502	Delco 506 or 030	Delco 036
	Voltage Rtg. & Total Plates	12 - 54	12 - 66	12 - 66
	SAE Designation & Amp Hr. Rtg.	2SMB 53 Amp Hr.	2SMB 61 Amp Hr.	70 Amp Hr.
	Location	Under Hood - L.H. Side		
	Terminal grounded	Negative		
Generator or Alternator	Make	Delco-Remy		
	Model	1100699 (a)		
	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		
	Model	1119511 (b)		
	Type	Regulating Contacts in Standard Type		
	Cutout relay	Closing voltage @ generator rpm	Cutout Relay Not Required	
		Reverse current to open	Cutout Relay Not Required	
	Regulated	Voltage	13.8	
		Current	Alternator Self Regulating	
	Voltage test conditions	Temperature	125° F	
		Load	10 Amps	
		Other	Cycle Regulator Before Final Setting	

ELECTRICAL—STARTING SYSTEM

		Regular Fuel Engines	Premium Fuel Engines (c)
Starting motor	Make	Delco-Remy	
	Model	1107293	1107355
	Rotation (drive end view)	Clockwise	
	Engine cranking speed	Not Available	
	Test conditions	Motor at room temperature, new battery fully charged and correct rating, standard #4 gauge cables.	
	No load test	Amps	65 - 100
		Volts	- -
		RPM (min)	3600 - 5100
Motor control	Switch (solenoid, manual)	Solenoid	
	Starting procedure	Place gearshift lever in neutral and depress clutch.* With co engine depress accelerator pedal to floor and release. With war engine hold accelerator pedal about halfway down, turn ignition k clockwise to engage starter, release key as soon as engine starts *Use neutral or park with auto. trans. (no clutch).	

(Continued)

- (a) 1100700 (55 amp) with A/C; 1100702 (60 amp) with A/C and breakerless ignition.
 (b) 1116370 transistor regulator optional - standard with 62 amp H.D. alternator.
 (c) Also includes regular fuel engines with automatic trans.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)	
MODEL		Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2	

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Sliding Gear - Overrunning Clutch	
	Pinion meshes (front, rear)		Front	
	Number of teeth	Pinion	9	
		Flywheel	Manual	166
			Auto.	166
		Flywheel tooth face width	Manual	.40
			Auto.	.40

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Optional		
	Make		Delco-Remy		
	Model		1115037 Std. (a)		
	Amps	Engine stopped	3.2 - 3.6 (Std.)		
Engine idling		1.9 - 2.3 (Std.)			
Distributor	Make		Delco-Remy		
	Model		1111090 (b)	1111078 (c) (a)	1111054 (d) (a)
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	800	800	650
		Intermediate points deg. @ rpm.	12-16	12-16	14-18
			@	@	@
			2000	2000	2000
		Max. deg. @ rpm.	20-24 @ 4600	20-24 @ 4600	20-24 @ 4600
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6-8	8-10	8-10
		Intermediate points, deg. @ in. Hg.	None		
			Max. deg. in. Hg.	20 @ 13-15	20 @ 15-17
		Breaker gap (in.)		.016	
		Cam angle (deg.)		28 - 32	
		Breaker arm tension (oz.)		19 - 23	
Timing	Crankshaft deg. @ rpm.		6° BTC at Hot Idle		
	Mark location		Crankshaft Pulley Hub		
Spark Plug	Make		AC		
	Model		45S (44S on all 421 Eng.)		
	Thread (mm)		14 MM		
	Tightening torque (lb. ft.)		15 - 25		
	Gap		.033 - .038		
Cable	Conductor type		Carbonized Thread		
	Insulation type		Neoprene		
	Spark plug protector		Hypalon Boot		

- (a) Model changes with optional breakerless ignition system.
 (b) Used on all 389 2-bbl. regular fuel engines (breakerless ignition not available).
 (c) Used on all 389 premium fuel engines and 421 4-bbl. engine.
 (d) Used on 421 3-2 bbl. and 421 H.O. engines.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)	
MODEL	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2		

ELECTRICAL—SUPPRESSION

Locations & type	Carbonized thread core secondary cables on all cars. Ground straps: 1-engine to dash, 2-engine to frame, 1-frame to RH fender skirt on all cars with radio.
------------------	---

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speedometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Ammeter
Temperature indicator—type		Tel-tale Lamp
Oil pressure indicator—type		Tel-tale Lamp
Fuel indicator—type		Electric Gage
Other		Optional Instrument Cluster with Temperature and Oil Pressure Tel-tales Replaced by Gages.
	Make	Delco Appliance
	Type—Standard	Two-Speed Electric
Windshield wiper	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	Washer Standard Equipment
Horn	Type	Solenoid
	Number used	2 Standard
	Amp draw (each)	4.3 to 5.9 Amps @ 12.5V

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
	Material	Woven Molded Asbestos
Clutch facing	Outside & inside dia.	10.4 x 6.5
	Total eff. area (sq. in.)	85.56
	Thickness	.140
	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

AMA Specifications—Passenger Car

MAKE OF CAR <u>Pontiac</u>	MODEL YEAR <u>1966</u>	DATE ISSUED <u>9-2-65</u>	REVISED ^(a)
	Catalina	Star Chief	Bonneville
		Executive	Grand Prix
MODEL _____			2 + 2

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 TRANSMISSION

Number of forward speeds		Standard 3-Speed	Optional 4-Speed	
			Standard	Close Ratio (b)
Transmission ratios	In first	2.42:1	2.52:1	2.20:1
	In second	1.61:1	1.88:1	1.64:1
	In third	1.00:1	1.46:1	1.28:1
	In fourth		1.00:1	1.00:1
	In reverse	2.33:1	2.59:1	2.27:1
Synchronous meshing, specify gears		All Forward		
Shift lever location		Steering Column (a)	Floor	
Lubricant	Capacity (pt.)	2.8	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 TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

- (a) Floor shift optional.
 (b) Special order only.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac				MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(a)
MODEL	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2				

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Turbo Hydra-Matic			
Type describe	Torque Converter			
Method of Selection (Lever, Push Button or other)	Lever			
Selector Pattern	P - R - N - D - S - L			
List gear ratios Selector Pattern and indicate which are used in each selector position	<u>R</u> 2.08:1	<u>D</u> 2.48:1 1.48:1 1.00:1	<u>S</u> 2.48:1 1.48:1	<u>L</u> 2.48:1 (a)
Max. upshift speeds—drive range	59 & 98	55 & 95	55 & 91	49 & 85
Max. kickdown speeds—drive range	3-2@88, 3-1@21	3-2@85, 3-1@20	3-2@81, 3-1@17	3-2@75, 3-1@16
Torque convertor	Number of elements	Three		
	Max. ratio at stall	2.10:1 (a)		
	Type of cooling (air, liquid)	Water		
Lubricant	Capacity—refill (pt.)	19 (Approx.)		
	Type recommended	GM Automatic Transmission Fluid - AQATF-A		
Special transmission . features	Shift lever must be lifted over stop to enter "Park," "Reverse," and "L" positions. Engine starting "Neutral" and "Park" positions provided for.			

DRIVE UNITS—PROPELLER SHAFT

Number used	One	
Type (exposed, torque tube)	Exposed	
Outer diameter x length* x wall thickness	Manual 3-speed transmission	3.00 x 56.4 x .065 (b) 3.25 x 59.3 x .065 (c)
	Manual 4-speed transmission	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 transmission torque multiplication in first gear is 5.22:1.
- (b) Catalina, Grand Prix, 2 + 2, and Bonneville Station Wagon.
- (c) Star Chief Executive and Bonneville (except Station Wagon).
- (d) Dia. reduced to 3.00 with 2.41:1 rear axle ratio only.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)	
MODEL		Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2	

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		Not Used
	Lubrication (fitting, prepack)		Not Used
Universal joints	Make		Saginaw
	Number used		Two
	Type (ball and trunnion, cross, other)		Cross
	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—REAR AXLE

Description			Semi-Floating Hypoid Rear Axle
Limited Slip differential, type			Spring Loaded Clutch (Opt.)
Drive Pinion Offset			1.75
No. of differential pinions			2
Ring gear O.D. (std. ratio)			8.75 P.D. - 8.87 O.D.
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

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio		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	4.11:1
No. of teeth	Pinion	17	16	15	14	13	13	12	11	11	9
	Ring gear	41	41	41	41	40	42	41	39	41	37

(a) Special lubricant required with limited slip differential.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(a)	
MODEL		Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2	

DRIVE UNITS—WHEELS

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

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.25 x 14, 4-Ply Rating, 2-Ply (b)
	Type - Nylon, etc.	Rayon
Rev/mile at 45 mph.		760 Std. 740 Opt. A & B
Inflation press. (cold)	Front	24 Std. Except 22 on Station Wagon
	Rear	22 Std. Except 26 on Station Wagon
Optional tires - size and ply		Option A - Oversize 8.55 x 14 4-Ply Rating, 2-Ply Option B - Heavy Duty 8.55 x 14 8-Ply Rating, 4-P

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		Hydraulic, Internal Expanding, 2-Shoe, Single Anchor
Self adjusting (std., opt., N.A.)		Standard
Hydraulic system type (single, dual, etc.)		Single
Power brake make & type (remote, integral, etc.)		Delco Moraine or Bendix Products
		Integral Type, Vacuum Suspended
Effective area (sq. in.) *		188.5
Gross lining area (sq. in.) **		193.7
Swept drum area (sq. in.) ***		328.9
Percent brake effectiveness—front		61.4
Drum or Rotor	Diameter	Front 11.0 Rear 11.0
	Type and material	Full Cast - Front, Finned Cast Alloy Iron - Rear (c)(d)
	Rotor (vented or solid)	
	No. pistons per caliper	
Wheel cylinder bore	Front	1.188
	Rear	.938
Master cylinder bore		.875
Available pedal travel		6.25 Std. - 4.04 with Power Brake Option
Line pressure at 100 lb. pedal load		700
Shoe clearance adjustment		Tighten to heavy drag, then back off 30 notches

* Excludes rivet holes, grooves, chamfers, etc.

(Continued)

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

*** Total swept area for four brakes:

Widest lining contact width for each brake x its drum circumference.

- (a) 8 Bolts on a 10 inch circle used with optional integral aluminum hubs and drums.
- (b) 8.55 x 14 standard on all station wagons and air conditioned cars.
- (c) Integral aluminum hub and drum with metallurgically bonded cast alloy iron braking surface - optional equipment.
- (d) Aluminum front drums with metallurgically bonded cast alloy iron braking surface - optional.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)	
MODEL		Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2	

BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc		Drum	
	Bonded or riveted		Riveted	
	Front Wheel	Material	Molded Asbestos	
		Size (length x width x thickness)	8.88 x 2.75 x .22	
		Prim. or out-board		
		Second. or in-board	11.52 x 2.75 x .26	
	Segments per shoe		One	
	Rear Wheel	Material	Molded Asbestos	
		Size (length x width x thickness)	8.88 x 2.00 x .22	
		Prim. or out-board		
		Second. or in-board	11.52 x 2.00 x .26	
	Segments per shoe		One	

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	

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. Open Channel Center Side Rails on all Other Models.
---	---

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)			
Wheel diameter		Manual	Optional		
		Power	15.74 x 16.5		
Turning diameter	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 wheel angle with inside wheel at 20°			18.4		
Manual	Gear	Type		Recirculating Ball Bearing	
		Make		Saginaw	
		Ratios	Gear	24:1	
			Overall	29.8:1	
	No. wheel turns		5.0		

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED ^(a)

	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2
--	----------	-------------------------	------------	------------	-------

MODEL

STEERING (cont.)

Power	Type (coaxial, linkage, etc.).			Coaxial
	Make			Saginaw
	Gear	Type		Recirculating Ball Bearing
		Ratios	Gear	17.5:1 ?
			Overall	21.7:1
	Pump driven by			Belt from Crankshaft
Number wheel turns			4.2	
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	
	Wheel Alignment (range at curb weight and preferred)	Caster (deg.)		
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

AMA Specifications—Passenger Car

MAKE OF CAR <u>Pontiac</u>	MODEL YEAR <u>1966</u>	DATE ISSUED <u>9-2-65</u>	REVISED ^(*)
	Catalina	Star Chief	Bonneville
MODEL _____	Executive	Grand Prix	2 + 2

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling	None
Provision for brake dip control	Compound Anti-Dive Control Front and Anti-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	Delco
Make	1.00
Piston dia.	
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
Material	SAE 9260
Size (coil design height & I.D.; bar length x dia.)	10.36 & 4.05
Spring rate (lb. per in.)	275 (c)
Rate at wheel (lb. per in.)	79
Stabilizer	Link
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
Material	SAE 9260
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.)	(d)
Mounting insulation type	Rubber
If leaf	No. of leaves
Shackle (comp. or tens)	None
Stabilizer	Not Used
Material	None
Track bar type	Not Used

(a) Except .875 on 2 + 2 and .687 on all station wagons.

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

(c) 2 + 2 series rate changes to 315 (spring) and 90 at wheel.

(d) 111 on Catalina except S.W., 152 on all station wagons, 127 all others.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1966	DATE ISSUED	9-2-65	REVISED ^(*)	
MODEL	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2		

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front						
	Rear doors	Front						
Type of finish (lacquer, enamel, other)		Acrylic Lacquer						
Hood counterbalanced (yes, no)		Yes						
Hood release control (internal, external)		External						
Vehicle indent. No. location		Left Front Body Pillar						
Engine No. location		Front of Right Hand Cylinder Bank						
Theft protection - type		Ign. Sw. terminals guarded by locked-on conn. body. Ign. key starter control & in-harness wiring from sw. to starter & coil. Door locks						
Vent window control method (crank, friction pivot)	Front	Crank						
	Rear	None						
Seat cushion type	Front	(a)	(b)					
	Rear	(c)	(a)					
	3rd seat	(c)	—	(a)	—			
Seat back type	Front	(d)	(b)					
	Rear	(e)						
	3rd seat	(e)	—	(e)	—			
Windshield glass type (i.e., single curved - laminated plate)		Single Curved Laminated Safety Plate						
Side glass type (i.e., curved - tempered plate)		Curved Solid Tempered Safety Plate						
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Single Curved Solid Tempered Safety Plate Except Compound Curved on 37 and 57 Styles						
Body Styles		11	69	39	37	67	57	35 & 1448.
Windshield glass exposed surface area		1448.1	1448.1	1384.3	1384.3	1384.3	1384.3	1448.
Side glass exposed surface area		1383.7	1366.2	1417.0	1335.4	1346.8	1337.8	2572.
Backlight glass exposed surface area		1173.5	1173.5	1213.6	1381.0	813.0	1399.5	925.
Total glass exposed surface area		4005.3	3987.8	4014.9	4100.7	3544.1	4121.6	4946.

LAMP HEIGHT AND SPACING

Height above ground to center of bulb - curb load	Headlamp	Highest *	30.98	30.98	30.98	31.03	30.98	30.93	31.3
		Lowest	24.53	24.53	24.53	24.58	24.53	24.48	24.8
	Tail	Highest	26.48	26.48	26.48	26.14	26.48	25.56	28.7
		Lowest	26.48	26.48	26.48	26.14	26.48	25.56	28.7
Distance from C/L of car to center of bulb	Headlamp	Inside	34.50						
		Outside *	34.50						
	Tail	Inside	19.48 (f)					30.0	32.9
		Outside	29.30 (f)					30.0	32.9
	Directional	Front	24.82					25.75	24.8
		Rear	19.48 + 29.30 (f)					30.00	32.9

* If single headlamps are used enter here.

- (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 & station wagon.
- (d) Zig-zag spring with cotton pad.
- (e) Formed wire spring with cotton pad.
- (f) 252, 254 & 256 series except station wagon, 262 series (except 45 style) has 3 bulbs located 29.88, 21.70 & 13.52 from centerline.

MAKE OF CAR Pontiac MODEL YEAR 1966 DATE ISSUED 9-2-65 REVISED 11-5-65

	Catalina	Star Chief Executive	Bonneville	Grand Prix	2 + 2
--	----------	-------------------------	------------	------------	-------

MODEL

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 (1) Optional on all with Bucket Seats	6-Way Power (2) Optional on all with Bench Seats
Reclining front seat back	Optional (3)	
Front seat headrest	Optional	
Radios (specify type as well as availability)	AM Push Button, AM-FM Push Button, AM Signal Seeking	Optional on all Models
Rear seat speaker	Optional - Also Reverberation Type	Optional (4)
Power Antenna	Optional	
Clock	Standard on all Except Catalina & 2 + 2 Series	
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 (5)	
Ignition lock lamp	Standard	
Back up lamp	Standard	
Dome lamp	Standard (except Convertible)	
Glove compartment lamp	Standard	
Prkg. brake signal lamp	Standard	
Luggage compartment lamp	Standard	
Underhood lamp	Optional	
Courtesy lamp	Standard (Front & Rear on Convertible)	
Map lamp	Same as Courtesy	
Auto. trans. quad. lamp	Standard	
Emergency flasher lamp	Optional	
Cornering light lamp	NA	
Low Fuel Warning Lamp	Optional	
Tachometer	Optional	
Oil Pressure Gage	Available in Optional Auxiliary Gage Unit	
Water Temperature Gage	Available in Optional Auxiliary Gage Unit	
Roof Rail & Reading Lamp	Optional (except Convertible)	
Rear Compt. Courtesy Lamp	Standard on 26245 and on 25245	
Ash Tray & Cig. Lighter Lamp	Standard	
Power Operated Door Locks	Optional	

- (1) Fore and aft plus elevation at rear edge.
- (2) Fore and aft plus elevation front and rear.
- (3) Available on 2 + 2, Bonneville & Grand Prix, coupes and convertibles, with bucket seats, also on Bonneville and Grand Prix coupes and convertibles with bench seat.
- (4) Reverberation type not available on station wagons.
- (5) Not available with manual transmission.

WEIGHTS

Form Rev. 4-65

AMA Specifications—Passenger Car

INDEX

SUBJECT	PAGE NO.	SUBJECT
Automatic Transmission	1, 16	Linings - Clutch, Brake
Axis, Steering	20	Lubrication
Axle, Rear	1, 17	Luggage Capacity
Battery	12	Motor, Starting
Bearings, Engine	5, 6, 7	Muffler
Belts - Fan, Generator, Water Pump	11	Overdrive
Body - General Information, types	Title, 1, 2, 22	Piston Pins & Rings
Exterior Dimensions	1	Pistons
Interior Dimensions	2	Power Brakes
Brakes - Parking, Service, Power	18, 19	Power Steering
Camber	20	Power Teams
Camshaft	6	Propeller Shaft, Universal Joints
Capacities		Pumps - Oil, Fuel
Cooling System	11	Water
Fuel Tank	10	Radiator, Hoses
Lubricants		Ratios - Axle
Engine Crankcase	8	Compression
Transmission and Overdrive	15, 16	Steering
Rear Axle	17	Transmission
Carburetor	4, 9, 10	Rear Axle
Caster	20	Regulator - Generator
Choke, Automatic	10	Rims
Clutch - Pedal Operated	14	Rings, Piston
Coil, Ignition	13	Rods - Connecting
Connecting Rods	5	Shock Absorbers, Front & Rear
Convenience Equipment	23	Spark Plugs
Cooling System	11	Speedometer
Crankcase Ventilation	8	Springs - Front & Rear Suspension
Crankshaft	5	Valve, Engine
Cylinders and Cylinder Head	3	Stabilizer (Sway Bar) - Front & Rear
Distributor - Ignition	13	Starting Motor
Electrical System	12, 13, 14	Steering
Engine		Suppression - Ignition, Radio
Bore, Stroke, Displacement, Type	1, 3	Suspension - Front & Rear
Compression Ratio	1, 3	Tailpipe
Firing Order, Cylinder Numbering	3	Thermostat, Cooling
General Information, H.P. & Torque	1, 3	Timing, Engine & Valve
Lubrication	7, 8	Tires
Power Teams	4	Toe in
Exhaust Emission Control	9	Torque Converter
Exhaust System	8	Torque - Engine, Rated
Equipment Availability	22	Transmission - Types
Fan, Cooling	11	Automatic
Filters - Engine Oil, Fuel System	8, 10	Manual & Overdrive
Frame	19	Ratios
Front Suspension	21	Track
Fuel, Fuel Pump, Fuel System	1, 3, 10	Trunk Luggage Capacity
Fuel Injection	1, 10	Turning Diameter
Generator and Regulator	12	Unitized Construction
Glass	22	Universal Joints, Propeller Shaft
Height (Lamps)	14	Valves - Intake & Exhaust
Headroom - Body	2	Vibration Damper
Heights - Overall	1	Voltage Regulator
Horns	14	Water Pump
Horsepower - Brake	1, 3, 4	Weights - Shipping, Curb
Ignition System	13	Wheel Alignment
Inflation - Tires	18	Wheelbase
Instruments	8, 14	Wheels & Tires
Kingpin (Steering Axis)	20	Wheel Spindle
Lamp Height & Spacing	22	Widths - Car & Body
Legroom	2	Windshield
Lengths - Overall	1	Windshield Wiper
Lifters, Valve	6	