

AMA Specifications—Passenger Car

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MANUFACTURER Pontiac Motor Division General Motors Corporation	CAR NAME Firebird
MAILING ADDRESS Pontiac, Michigan 48053	MODEL YEAR 1967
	ISSUED: 12-23-66 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 Type	Number of Passengers	Body Style Number
Sport Coupe	4*	22337
Convertible	4	22367

* 5 With optional bench type front seat

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MAKE OF CAR Pontiac MODEL YEAR 1967 DATE ISSUED 12-23-66 REVISED ^(*)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400		
Wheelbase (L101)		108:1						
Track	Front (W101)	59						
	Rear (W102)	60						
Maximum Overall Dimensions	Length (L103)	188.8						
	Width (W103)	72.6						
	Height (H101)	51.5						
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard					
	Manual - 4 speed	15	Not Offered	Optional				
	Overdrive	15	Not Offered					
	Automatic	16	Optional					
Axle ratio	Manual - 3 speed	17	3.08:1	3.55:1	3.23:1	3.36:1	3.90:1	
	Manual - 4 speed	17	Not Offered	3.55:1	3.23:1	3.36:1	3.90:1	
	Overdrive	17	Not Offered					
	Automatic	17	2.56:1	3.23:1	2.56:1	3.23:1	3.90:1	
Tire size	18	E70 x 14						
Engine	Type, no. cyl., valve arr.	3	Line, 6, Overhead Cam		90° V, 8, In-Head			
	Fuel system (Carb., other)	10	Carburetor					
	Bore and stroke	3	3.8750 x 3.8774	3.245 x 3.255	3.7187 x 3.7211	3.746 x 3.754	4.1200 x 4.1224	3.746 x 3.754
	Piston displ., cu. in.	3	230		326		400	
	Std. compression ratio	3	9.0:1	10.5:1	9.2:1	10.5:1	10.75:1	
	Max. bhp at engine rpm	3	165 @ 4700	215 @ 5200	250 @ 4600	285 @ 5000	325 @ 4800	
	Max. torque at rpm	3	216 @ 2600	240 @ 3800	333 @ 2800	359 @ 3200	410 @ 3400	

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GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	FIREBIRD 22337
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FRONT COMPARTMENT

Shoulder room	W3	56.7
Hip room	W5	56.3
Max. eff. leg room - accelerator	L34	42.5
Effective head room	H61	37.0
H Point to Heel point	H30	7.7

REAR COMPARTMENT

Shoulder room	W4	53.6
Hip room	W6	54.6
Minimum effective leg room	L51	29.5
Effective head room	H63	36.7

LUGGAGE COMPARTMENT

Usable luggage capacity	V1	9.9
Liftover height	H195	29.1
Position of spare tire storage		Flat on Floor
Method of holding lid open		Torsion Bar Counterbalance

STATION WAGON—THIRD SEAT Station Wagon Not Offered

Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Seat facing direction		

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	<u>Station Wagon Not Offered</u>
Minimum distance between wheel houses at floor level	W201	/
Rear end opening width at belt	W204	
Floor length from back of front seat at floor level to inside of closed tail gate	L202	
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	
Maximum height - floor covering to headlining at centerline of rear axle	H201	
Maximum height of rear opening - tail and lift gates open	H202	
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	

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MAKE OF CAR	Pontiac		MODEL YEAR	1967	DATE ISSUED	12-23-66	REVISED ^(*)
MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400		

ENGINE—GENERAL

Type, no. cyls., valve arr.	Line, 6, Overhead Cam		90°V, 8, In-Head			
Bore and stroke (nominal)	3.8750 x 3.245	3.7187 x 3.746	4.1200 x 3.746	3.8774 x 3.255	3.7211 x 3.754	4.1224 x 3.754
Piston displacement, cu. in.	230		326		400	
Bore spacing (C/L to C/L)	4.4		4.62			
No. system	L. Bank	1-2-3-4-5-6 (In-Line)		1-3-5-7		
(front to rear)	R. Bank	---		2-4-6-8		
Firing order	1-5-3-6-2-4		1-8-4-3-6-5-7-2			
Compre. ratio (nominal)	9.0:1	10.5:1	9.2:1	10.5:1	10.75:1	
Cylinder Head Material	Alloy Cast Iron					
Cylinder Block Material	Alloy Cast Iron					
Cylinder Sleeve-Wet, dry, none	None					
Number of mounting points	Front	2		1		
	Rear	1		1		
Engine installation angle	30° 35'					
Taxable horsepower	36.0		44.3		54.3	
Publishing max. bhp* @ eng. RPM	165 @ 4700	215 @ 5200	250 @ 4600	285 @ 5000	325 @ 4800	
Publishing max. torque* (lb. ft. @ RPM)	216 @ 2600	240 @ 3800	333 @ 2800	359 @ 3200	410 @ 3400	
Recommended fuel regular - premium	Regular	Premium	Regular	Premium	Premium	
Idle speed (spec. neutral or drive)	Manual	600 (In Neutral) (b)			700 (In Neutral)	
	Automatic	500 (In Drive) (b)			600 (In Drive)	

ENGINE—PISTONS

Material	Aluminum Alloy							
Description and finish	Cam Ground Slipper Type - Tin Plated							
Weight (piston only) oz.	20.515 - 20.702		17.935 - 18.122		22.100 - 22.305			
Clearance (limits)	Top land	.0250 - .0303		.0248 - .0301		.0177 - .0230		
	Skirt	Top	.0022 - .0028 (a)		.0022 - .0028 (a)		.0025 - .0031 (a)	
		Bottom	.0017 - .0033		.0017 - .0033		.0017 - .0033	
Ring groove depth	No. 1 ring	3.427 - 3.437		3.260 - 3.270		3.667 - 3.677		
	No. 2 ring	3.427 - 3.437		3.260 - 3.270		3.667 - 3.677		
	No. 3 ring	3.446 - 3.456		3.295 - 3.305		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.

(b) 100 RPM Higher setting required on exhaust emission control cars.

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY 22300	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
STANDARD ENGINE							
Firebird	230	1 bbl.	9.0:1	165 @ 4700	216 @ 2600	Manual (3-Spd.) Automatic	3.08:1, 3.36:1 (a) 2.56:1, 2.93:1 (a)
OPTIONAL ENGINES							
Firebird Sprint	230	4 bbl.	10.5:1	215 @ 5200	240 @ 3800	Manual (d) Automatic	3.55:1 (a) 3.23:1, 2.78:1, 3.55:1 (a)
Firebird 326	326	2 bbl.	9.2:1	250 @ 4600	333 @ 2800	Manual (d) Automatic	3.23:1, 3.08:1 (a) 2.56:1, 2.93:1 (b)
Firebird H. O.	326	4 bbl.	10.5:1	285 @ 5000	359 @ 3200	Manual (d) Automatic	3.36:1 (a) 3.23:1 (a)
Firebird 400	400	4 bbl.	10.75:1	325 @ 4800	410 @ 3400	Manual (d) Turbo Hydra- Matic	3.36:1, 3.55:1 (a) 3.08:1, 3.23:1 (c)
Firebird 400- Ram Air Opt.	400	4 bbl.	10.75:1	325 @ 5200	410 @ 3600	Manual (d) Turbo Hydra-	3.90 3.90

- (a) 3.23:1 with air conditioning
 (b) 2.93:1 with air conditioning
 (c) 3.08:1 with air conditioning
 (d) 3-speed standard - 4-speed optional

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MAKE OF CAR	Pontiac	MODEL YEAR	1967	DATE ISSUED	2-23-66	REVISED (a)
MODEL	FIREBIRD 230 cu. in. Engines	FIREBIRD 326 cu. in. Engines	FIREBIRD 400 cu. in. Engine			

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 -- Reverse Twist -- Taper Faced No. 1 Channel Moly Filled; No. 2 Lubrite Finish (a)				
	Width	.0778	No. 1 .0778. No. 2 .0775			
	Gap	.015	.019			
Oil	Description - material, coating, etc.	Multi-Piece (2 rails & 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 5015 Steel	SAE 1016 Steel	
Length	3.00	3.25	
Diameter	.9272	.9802	
Type	Locked in rod, in piston, floating, etc.	Locked in Rod	
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston	.0003 - .0005	
	In rod	.0005 - .0007	
Direction & amount offset in piston	Press Fit To Right - .063		

ENGINE—CONNECTING RODS

Material	SAE 1037, 1038 or 1141	Arma Steel
Weight (oz.)	20.5	31.7
Length (center to center)	5.70	6.625
Bearing	Material & Type	Moraine 100-A (b) (c) (d)
	Overall length	.837
	Clearance (limits)	.0007- .0027 (e)
	End play	.0085 - .0135
		Moraine 400-A (b)
		.88
		.0005 - .0025
		.0005 - .0026
		.006 - .011 (Total for two)

- (a) No. 1 and No. 2 Channel Moly Filled on 400 cu. in. engines.
 (b) Steel backed removable precision.
 (c) M-400-A on Opt. 6 Cyl. 4 Bbl. engine.
 (d) M-400-A on Opt. 326 HO engine with manual transmission.
 (e) .0007-.0028 on Opt. 6 Cyl. 4 Bbl. engine.

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MAKE OF CAR	Pontiac	MODEL YEAR	1967	DATE ISSUED	12-23-66	REVISED (a)
MODEL	FIREBIRD 230 cu. in. Engines	FIREBIRD 326 cu. in. Engines	FIREBIRD 400 cu. in. Engines			

ENGINE—CRANKSHAFT

Material		Nodular Iron		
Vibration damper type		Rubber Floated Weight		
End thrust taken by bearing (No.)		7	4	
Crankshaft end play		.002-.006	.0035-.0085	
Main bearing	Material & type	Durex 100-A* Steel Backed, Removable, Precision (b)		
	Clearance	.0003-.0019	.0002-.0017	
	Journal dia. and bearing overall length	No. 1	2.30 x .80	3.00 x .94
		No. 2	2.30 x .80	3.00 x .94
		No. 3	2.30 x .80	3.00 x .94
		No. 4	2.30 x .80	3.00 x 1.13
		No. 5	2.30 x .80	3.00 x 1.59
No. 6		2.30 x .80	None	
No. 7	2.30 x 1.01	None		
Dir. & amt. cyl. offset		None		
Crankpin journal diameter		2.00	2.25	

ENGINE—CAMSHAFT

Location		Overhead	Between Cylinder Banks	
Material		Hardened Alloy Cast Iron		
Bearings	Material	Aluminum Alloy	High Lead Babbitt on Steel	
	Number	7	5	
Type of Drive	Gear or chain	Belt (a)	Chain	
	Crankshaft gear or sprocket material	Hardened Cast Iron	Carburized and Hardened Steel	
	Camshaft gear or sprocket material	Hardened Cast Iron	Aluminum Alloy with Nylon Covered Teeth	
	Timing chain	No. of links	98 Teeth	60
		Width	1.031-.954	.88 (Morse) - 1.00 (Link Belt)
Pitch		.500	.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)

(Continued)

* M-400 in lower half of No. 1, 2, 3 & 4 locations of 400 cu. in. engines.

(a) Neoprene with fibre glass cord reinforcement.

(b) M-400 in all locations of optional 6 cyl. 4 bbl. engine.

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MAKE OF CAR	Pontiac	MODEL YEAR	1967	DATE ISSUED	12-23-66	REVISED (6)
MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.		

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	7	14	22		
		Closes (°ABC)	41	50	67		
		Duration -deg.	228	244	269		
	Exhaust	Opens (°BBC)	41	52	72		
		Closes (°ATC)	7	12	25		
		Duration -deg.	228	244	277		
	Valve opening overlap		14°	26°	47°		
Material SAE-1041 With Aluminum Treatment on Face							
Intake	Overall length		4.902	4.994	4.9325	5.018	
	Actual overall head dia.		1.923-1.917		1.923-1.917		
	Angle of seat & face		30° Seat - 29° Face		30° Seat - 29° Face		
	Seat insert material		Not Used		Not Used		
	Stem diameter		.34		.34		
	Stem to guide clearance		.0016 - .0033		.0016 - .0033		
	Lift (@ zero lash)		.440 ± .011		.428 ± .011		
	Outer spring press. and length	Valve closed (lb. @ in.)	92 @ 1.583	59 @ 1.583	59 @ 1.586	65 @ 1.586	
		Valve open (lb. @ in.)	184 @ 1.183	133 @ 1.145	122 @ 1.211	132 @ 1.211	
	Inner spring press. and length	Valve closed (lb. @ in.)	-----	28 @ 1.563	28 @ 1.566	34 @ 1.566	
		Valve open (lb. @ in.)	-----	97 @ 1.125	87 @ 1.191	93 @ 1.191	
	Material 21-2N Steel With Alum. Treatment On Face & Chrome Plated Stem						
	Exhaust	Overall length		4.891	4.983	4.9215	5.007
		Actual overall head dia.		1.603 - 1.597		1.643 - 1.637	
Angle of seat & face		45° Seat - 44° Face		45° Seat - 44° Face			
Seat insert material		Not Used		Not Used			
Stem diameter		.34		.34			
Stem to guide clearance		.0021 - .0038		.0021 - .0038			
Lift (@ zero lash)		.400 ± .011		.438 ± .011			
Outer spring press. and length		Valve closed (lb. @ in.)	92 @ 1.583	59 @ 1.583	59 @ 1.586	65 @ 1.586	
		Valve open (lb. @ in.)	184 @ 1.183	133 @ 1.145	128 @ 1.176	138 @ 1.176	
Inner spring press. and length		Valve closed (lb. @ in.)	-----	28 @ 1.563	28 @ 1.566	34 @ 1.566	
		Valve open (lb. @ in.)	-----	97 @ 1.125	93 @ 1.156	99 @ 1.156	

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	Belt - Not Lubricated	Metered Jet
	Cylinder walls	Metered Jet	

(Continued)

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MAKE OF CAR	Pontiac	MODEL YEAR	1967	DATE ISSUED	12-23-66	REVISED ^(*)
MODEL	FIREBIRD 400		FIREBIRD 400 RAM AIR OPT.			
	Man. Trans.	Auto. Trans.	Man. Trans.	Auto. Trans.		

ENGINE—VALVE SYSTEM (cont.)

		Intake		Exhaust		
		Opens (°BTC)	Closes (°ABC)	Opens (°BBC)	Closes (°ATC)	
Timing	Intake	23	70	30	83	
		273	273	301		
	Exhaust	78	31	77	38	
		289	282	313		
	Valve opening overlap		54°	55°	76°	
	ENGINE—VALVE SYSTEM (cont.)					
Intake	Material					SAE-1041 with Alum. Treatment on Face & Chrome Plated Stem*
	Overall length					5.0625
	Actual overall head dia.					2.113 - 2.107
	Angle of seat & face					30° Seat - 29° Face
	Seat insert material					Not Used
	Stem diameter					.34
	Stem to guide clearance					.0016 - .0033
	Lift (@ zero lash)					.410 ± .011 .413 ± .011
	Outer spring press. and length	Valve closed (lb. @ in.)	59 @ 1.586	65 @ 1.586	97 @ 1.586	107 @ 1.586
		Valve open (lb. @ in.)	128 @ 1.176	138 @ 1.176	231 @ 1.173	247 @ 1.173
	Inner spring press. and length	Valve closed (lb. @ in.)	47.5 @ 1.566	52.5 @ 1.566	28 @ 1.566	34 @ 1.566
		Valve open (lb. @ in.)	111 @ 1.156	121 @ 1.156	93 @ 1.156	99 @ 1.156
ENGINE—VALVE SYSTEM (cont.)						
Exhaust	Material					21-2N Steel with Alum. Treatment on Face and Chrome Plated Stem*
	Overall length					5.0515
	Actual overall head dia.					1.773 - 1.767
	Angle of seat & face					45° Seat - 44° Face
	Seat insert material					Not Used
	Stem diameter					.34
	Stem to guide clearance					.0021 - .0038
	Lift (@ zero lash)					.413 ± .011 .414 ± .011 .413 ± .011
	Outer spring press. and length	Valve closed (lb. @ in.)	59 @ 1.586	65 @ 1.586	59 @ 1.586	65 @ 1.586
		Valve open (lb. @ in.)	128 @ 1.173	138 @ 1.173	128 @ 1.172	138 @ 1.172
	Inner spring press. and length	Valve closed (lb. @ in.)	47.5 @ 1.566	52.5 @ 1.566	28 @ 1.566	34 @ 1.566
		Valve open (lb. @ in.)	111 @ 1.153	121 @ 1.153	93 @ 1.152	99 @ 1.152

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

(Continued)

*Material spec. changes to GM 8440 with Ram Air Option.

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MODEL	FIREBIRD	FIREBIRD	FIREBIRD	FIREBIRD	FIREBIRD	FIREBIRD
		SPRINT	326			H. O.

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear		
Normal oil pressure (lb. @ engine rpm)	26-36 @ 2800	30-40 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.)	5	6	
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 Requirement (MM, MS, etc.)	MS		

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single (a)		
Muffler No. & type (reverse flow, straight thru, separate resonator)	One - Reverse Flow	(b)	
Exhaust pipe dia. (O.D., wall thickness)	Branch	None (c)	2.00 x .060
	Main	2.00 x .060	2.25 x .070
Tail pipe diameter (O.D. & wall thickness)	Muffler Outlet Spout (or Spouts) 2.00 x .060 (e)		

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System	
	Optional	None	
Control Unit	Make and model	AC Type CV-735C	AC Type CV-679
	Location	Intake Manifold	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 (f)	
	Flame arrestor (screen, check valve, other)	Check Valve (f)	

(a) Dual system std. on H. O., "Y" Pipe joins dual outlet manifold to single exhaust pipe on Sprint, crossover pipe used on 326.

(b) One crossflow muffler with dual inlets and outlets, reverse flow resonator ahead of muffler in each pipe.

(c) Sprint "Y" pipe legs 2.00 x .060.

(d) .076 - front section, .070 - rear section.

(e) Front section, 2.25 x .070 - rear section.

(f) Closed CC vent system (Calif.) takes air through flame arrestor filter or screen in the carb. air cleaner.

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 MODEL FIREBIRD 400 FIREBIRD 400 RAM AIR
OPTION

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear		
Normal oil pressure (lb. @ engine rpm)	55 to 60 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
		SAE Number	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 Requirement (MM, MS, etc.)	MS		

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual		
Muffler No. & type (reverse flow, straight thru, separate resonator)	One - Crossflow with Dual Inlets and Outlets (a)		
Exhaust pipe dia. (O.D., wall thickness)	Branch	Not Used	
	Main	Front: 2.00 x .060 (b) Rear 2.25 x .070	
Tail pipe diameter (O.D. & wall thickness)	2.00 x .060 Muffler Outlet Spouts		

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 (c)
	Flame arrestor (screen, check valve, other)	Check Valve

(a) Reverse flow resonator ahead of muffler in each pipe.

(b) 2.25 x .076 with Ram Air Option.

(c) Closed crankcase vent system (Calif.) takes air through air filter element in carburetor air cleaner.

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MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400
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ENGINE—EXHAUST EMISSION CONTROL

6 Cylinder Engines

V-8 Engines

Type (Air Injection, engine modifications, other)		Air Injection					
Air Injection Pump	Type	Vane					
	Displacement	19.3 cu. in.					
	Drive ratio	95:1	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.)	Air Manifold		Cylinder Heads			
	Point of entry	Exhaust Ports					
	Injection tube I.D.	.256	None - .25 Dia Drilled Hole				
	Check valve type	Viton Disc					
	Backfire protection (type)	Vacuum Controlled Air Diverter Valve					
Carburetor	Make	Rochester		Rochester & Carter			
	Model	Special					
	Barrel size	No Change from Standard					
	Idle speed	Drive	600 RPM with Automatic Transmission			Neutral	700 RPM with Manual Transmission
Distributor	Aux. Adv. Systems (type)	Deceleration Spark Advance Valve on V-8 With Manual Transmission Only					
	Make	Delco-Remy					
	Model	1110391 (b)	1110398 (c)	1111199 (d)	1111238 (e)	1111252 (f)	
	Cent'gpt adv. in crank degrees @ eng. rpm	Start (rpm)	900	800	800	800	800
		Intermed. points deg. @ rpm	6-10 @ 1000 21-25 @ 2100 26-30 @ 4800	7-11 @ 1500 18-22 @ 4300	23-27 @ 1900 32-36 @ 4600	19-32 @ 1950 28-32 @ 4800	21-25 @ 2000 26-30 @ 4600
		Max. deg.@rpm.	26-30 @ 6000	18-22 @ 6000	32-36 @ 6000	28-32 @ 6000	26-30 @ 6000
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in Hg)	Vacuum advance is same as corresponding engine distributor used on car without exhaust emission control system except that double acting vacuum diaphragm provides 5° spark retard on 6 cyl. 1-bbl. carb. engine, and 10° retard on all others, with closed throttle. (g)				
		Intermed. points deg @ in. Hg					
	Max. deg. @ in.						
Vacuum Source		Spark Ports in Carburetor					
Timing - Crank degrees @ rpm		0° (TDC) *	5° BTC *	6° BTC *			
Cooling System (describe changes)		Non-air conditioned cars: No change except higher performance fan and fan shroud added with V-8 engine options. Air conditioned cars: V-8 engine option and all Firebird 400 models have fan drive ratio increased to 1.25:1.					
Exhaust System (describe changes)		Same as Standard					

- (a) 1.44:1 with air conditioning.
- (b) 230 cu. in. 1-bbl. manual and automatic transmission.
- (c) 230 cu. in. 4-bbl. manual and automatic transmission.
- (d) 326 cu. in. 2-bbl. manual and automatic transmission.
- (e) 326 cu. in. 4-bbl. manual and automatic transmission.
- (f) 400 cu. in. 4-bbl. manual transmission engines - automatic transmission same as standard.
- (g) Firebird 400 4-bbl. automatic transmission engine distributors same as standard.

* At hot idle - all hoses disconnected.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac	MODEL YEAR 1967	DATE ISSUED 12-23-66 REVISED (a)			
MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400

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.)	18.5	
	Filler location	Center Rear	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Right front of engine	Left front of engine
	Pressure range	4.0 - 5.5	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	Wetted Plastic Foam
Optional		Two Stage-Wetted Plastic Foam Over Paper Element	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type*	Barrel Size	No. of Bbls.
			Make	Model			
Firebird	230	Manual	Rochester	7027167	One	1.75	1
		Automatic	Rochester	7027168	One	1.75	1
Firebird Sprint	230	Manual	Rochester	7027269	One	(a)	4
		Automatic	Rochester	7027268	One	(a)	4
Firebird 326	326	Manual	Rochester	7027071	One	1.69	2
		Automatic	Rochester	7027062	One	1.69	2
Firebird H. O.	326	Manual	Carter	9786407	One	(b)	4
		Automatic	Carter	9786410	One	(b)	4
Firebird 400	400	Manual	Rochester	7027273	One	(a)	4
		Turbo H-M	Rochester	7027272	One	(a)	4
Firebird 400 - Ram Air Opt.	400	Manual	Rochester	7027272	One	(a)	4
		Turbo H-M	Rochester	7037276	One	(a)	4

* All Downdraft Type

(a) 1.38 Primary, 2.25 Secondary.

(b) 1.44 Primary, 1.69 Secondary.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1967 DATE ISSUED 12-23-66 (REVISED ^(*))
 MODEL FIREBIRD | FIREBIRD SPRINT | FIREBIRD 326 | FIREBIRD H.O. | FIREBIRD 400

ENGINE—COOLING SYSTEM L-6 Engine | V-8 Engine

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	16 17	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Sealed Ball Bearing	
By-pass recirculation type (internal, external)	External	Internal	
Radiator core type (cellular, tube and fin, other)	Tube and Center		
Cooling system capacity	With heater (qt.)	12.1 18.6 (326), 17.8 (400)	
	Without heater (qt.)	Heater Standard Equipment	
	Opt. equipment-specify (qt.)	12.7 with air conditioning 20.2 (326 W.A/C, 19.4 (400 W.A/C)	
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)	One Internal
		Inside diameter	5/16 Hose Not Used
Fan	Number of blades & spacing	4 - 76° & 104° (a)(b)	
	Diameter	17.62	19.0
	Ratio-fan to crankshaft rev.	.95:1	.91:1
	Fan cutout type	Fluid Clutch - Thermostatically Controlled (c)	
	Bearing type	See Water Pump	
*Drive belts (indicate belt used by letter)	Fan	A, A, B A, B A, B A, E B, E B, E B, E	6 Cyl. Engine Only
	Generator or alternator	A, A, B A, B A, B A B, D B, D B, D	See page 11a for
	Water Pump	A, A, B A, B A, B A, E B, E B, E B, E	V-8 Engine
	Power Steering	B B, C B, D B, C, D	
	Air Conditioning	E E E E	
	Air Injection Pump	B C B, D C	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°	36°					
Nominal length (SAE)	39.0	51.5	31.2	27.6	58.0	36.5					
Width	.38	.47	.38	.38	.47	.38					

(a) A/C with L6 uses 7 blade - 18" dia. fan and A/C with V8 uses 7 blade 19.5" dia. both with uneven spacing. Form Rev. 4-65
 (b) 7 blade 19.5" dia. fan standard on Firebird 400 except std. 4 blade with Ram Air Option.
 (c) Used with V8's with A/C and all Firebird 400 except Ram Air Engines.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac	MODEL YEAR 1967	DATE ISSUED 12-23-66 REVISED (a)	
MODEL	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	V-8 Engine								
Radiator cap relief valve pressure									
Circulation thermostat	Type (choke, bypass) Starts to open at (°F)								
Water pump	Type (centrifugal, other)								
	GPM @ 1000 pump rpm								
	Number of pumps								
	Drive (V-belt, other)								
Bearing type									
By-pass recirculation type (internal, external)									
Radiator core type (cellular, tube and fin, other)									
Cooling system capacity	With heater (qt.)								
	Without heater (qt.)								
	Opt. equipment—specify (qt.)								
Water jackets full length of cylinder (yes, no)									
Water all around cylinder (yes, no)									
Radiator hose	Lower	Number and type (molded, straight)							
		Inside diameter							
	Upper	Number and type (molded, straight)							
		Inside diameter							
	By-pass	Number and type (molded, straight)							
		Inside diameter							
Fan	Number of blades & spacing								
	Diameter								
	Ratio-fan to crankshaft rev.								
	Fan cutout type								
	Bearing type								
*Drive belts (indicate belt used by letter)	Fan	A	B, C	E	C	A	B, H	D, E	H
	Clutch 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

See page 11 except for V-8 engine data shown below

* 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	50.0	52.0	69.0	57.0	61.2	59.0	53.5			
Width	.38	.38	.47	.38	.38	.38	.47	.47			

(a) Except A/C, 7 blade fan and clutch option, H. D. Cooling and 326 H. O. engine option. Form Rev. 4-65

(b) Except A/C which is 1.13.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1967	DATE ISSUED	12-23-66 (REVISED '67)
MODEL	FIREBIRD	FIREBIRD	FIREBIRD		
	230 cu. in. Engines	326 cu. in. Engines	400 cu. in. Engines		

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco Y-55 (a)	Delco Y-59 (b)	Delco R-59	
	Voltage Rtg. & Total Plates	12-54	12-54	12-66	
	SAE Designation & Amp Hr. Rtg.	17 MI-44 Amp. Hr.	2SM-53 Amp. Hr.	2SM-61 Amp. Hr.	
	Location	Under Hood - R.H. Side	Under Hood - L.H. Side		
	Terminal grounded	Negative			
Generator or Alternator	Make	Delco-Remy			
	Model	1100761 (c)	1100704 (d)		
	Type and rating	37 Amp (e)	37 Amp. (e)		
	Output at engine idle (neutral)	5-10 Amps.			
	Ratio—Gen. to Cr's rev.	2.74:1 (3.02:1 With A/C)			
Regulator	Make	Delco-Remy			
	Model	1119515 (f)			
	Type	Regulating Contacts in Standard Type			
	Cutout relay	Closing voltage @ generator rpm	Cutout Relay Not Required		
		Reverse current to open	Cutout Relay Not Required		
	Regu- lated	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

Starting motor	Make	Delco-Remy			
	Model	1108329	1108328	1108335	
	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	49-76	65-100	Test Not
		Volts	10.6	10.6	Recommended
RPM (min)		6200-9600	3600-5100		
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 auto. trans. (no clutch).
(Continued)

- (a) Delco R-59 used with A/C or H.D. battery option.
- (b) With regular fuel engine - Delco R-59 with prem. fuel engine or H.D. battery option.
- (c) 1100760 (55 amp.) with A/C.
- (d) 1100700 (55 amp.) with A/C.
- (e) Diode rectified, 3-phase alternating current.
- (f) 1116368 transistor regulator optional.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1967 DATE ISSUED 12-23-66 REVISED ¹⁰¹

MODEL FIREBIRD FIREBIRD SPRINT FIREBIRD 326 FIREBIRD 442 FIREBIRD 400

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Sliding Gear Overrunning Clutch	
	Pinion meshes (front, rear)		Front	
	Number of teeth	Pinion	9	
		Flywheel	Manual	155
	Auto.		155	166
Flywheel tooth face width	Manual	.41	.40	
	Auto.	.41	.40	

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		Not Offered				
	Make		Delco-Remy				
	Model		1115224 Std. (a)		1115244 Std. (a)		
	Amps	Engine stopped	3.2 (Std.)		3.4 (Std.)		
Engine idling		2.8 (Std.)		2.1 (Std.)			
Distributor	Make		Delco-Remy				
	Model		1110396 (b)	1110377 (c)	1111164 (d)	1111165 (e)	1111250 (g)
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	800				
		Intermediate points deg. @ rpm.	12-16 @ 1800	7-11 @ 1500 18-22 @ 4300	23-27 @ 1900 32-36 @ 4600	19-23 @ 1950 28-32 @ 4800	21-25 @ 2000 26-30 @ 4600
		Max. deg. @ rpm.	24-28 @ 6000	18-22 @ 6000	32-36 @ 6000	28-32 @ 6000	26-30 @ 6000
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	4-6		6-8	8-10	8-10
		Intermediate points, deg. @ in. Hg.	None				
		Max. deg. in. Hg.	20 @ 11-13		20 @ 13-15	20 @ 15-17	
	Breaker gap (in.)		.016				
	Cam angle (deg.)		31-34		28-32		
Breaker arm tension (oz.)		19-23					
Timing	Crankshaft deg. @ rpm.		5° BTC *		6° BTC *		
	Mark location		On Balancer		On Crankshaft Pulley Hub		
Spark Plug	Make		AC				
	Model		AC44N		AC45-S		AC44-S
	Thread (mm)		14mm				
	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 capacitor discharge ignition system. (Not available with 1 bbl. carburetor 6 cylinder engine or 326 2-bbl. carburetor V-8 engine).

(b) 230 cu. in. 1-bbl.

(c) 230 cu. in. 4-bbl.

(d) 326 cu. in. 2-bbl.

(e) 326 cu. in. 4-bbl.

(g) 400 cu. in. 4-bbl.

(h) Model changes with certain exhaust emission control systems - see page 9 for details.

* At hot idle - all hoses disconnected.

AMA Specifications—Passenger Car

MAKE OF CAR <u>Pontiac</u>	MODEL YEAR <u>1967</u>	DATE ISSUED <u>12-23-66</u>	REVISED ^(*)
MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326
			FIREBIRD H. O.
			FIREBIRD 400

ELECTRICAL—SUPPRESSION

Locations & type	Carbonized thread core secondary cables and engine to dash ground strap on all cars. Ground strap from engine to shroud and right hand skirt to frame plus condenser on regulator of all cars with radio.
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ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
	Charge indicator—type	Tel-tale Lamp
	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 with Gages Plus a Tachometer.
Windshield wiper	Make	Delco Appliance
	Type—Standard	Two-Speed Electric
	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	Washer Standard Equipment
Horn	Type	Solenoid
	Number used	1 Std. (a)
	Amp draw (each)	4.3 to 5.9 @ 12.5 V

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	6-Cylinder Engine	V-8 Engines	
		Own Dry	
Type pressure plate springs	Disc Spring		
Total spring load (lb.)	2050 (b)		
No. of clutch driven discs	One		
Clutch facing	Material	Woven Molded Asbestos	
	Outside & inside dia.	10.0 x 6.0 (c)	10.4 x 6.5
	Total eff. area (sq. in.)	82.93 (c)	85.56
	Thickness	.135 (c)	.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 and Metal to Metal Friction	

- (a) Second horn optional.
- (b) 2350# pressure on 6 cylinder 4 bbl. option and Firebird 400.
- (c) 6 cylinder 4 bbl. option uses 10.4 x 6.5 driven plate with 80.56 effective area and .140 facing thickness.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1967	DATE ISSUED	12-23-66	REVISED ^(a)
MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400	

DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	3-SPEED (a)			4-SPEED		
	6-Cyl.	326 V-8	400 V-8	6-Cyl.	V-8	
Transmission ratios	In first	2.85:1	2.54:1	2.41:1	3.11:1 (b)	2.52:1
	In second	1.68:1	1.50:1	1.59:1	2.20:1 (b)	1.88:1
	In third	1.00:1	1.00:1	1.00:1	1.47:1 (b)	1.46:1
	In fourth	--	--	--	1.00:1 (b)	1.00:1
	In reverse	2.95:1	2.63:1	2.41:1	3.11:1 (b)	2.59:1
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 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
Winter	
Extreme cold	

(a) Floor shift available with 3-speed manual transmissions.

(b) 4-Speed not available with 6 cyl. 1-bbl. carb. engine.

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1967 DATE ISSUED 12-23-66 REVISED ^(M)

MODEL FIREBIRD with 230 and 326 cu. in. Engines FIREBIRD with 400 cu. in. Engines

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Automatic	Turbo Hydra-Matic															
Type describe	Torque Converter																
Method of Selection (Lever, Push Button or other)	Lever																
Selector Pattern	P-R-N-D-L	P-R-N-D-S-L															
List gear ratios Selector Pattern and indicate which are used in each selector position	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 33%;">R 1.76</td> <td style="text-align: center; width: 33%;">D 1.76 1.00</td> <td style="text-align: center; width: 33%;">L 1.76 (a)</td> </tr> </table>	R 1.76	D 1.76 1.00	L 1.76 (a)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 25%;">R 2.08</td> <td style="text-align: center; width: 25%;">D 2.48</td> <td style="text-align: center; width: 25%;">S 2.48</td> <td style="text-align: center; width: 25%;">L 2.48 (b)</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">1.48</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">1.00</td> </tr> </table>	R 2.08	D 2.48	S 2.48	L 2.48 (b)				1.48				1.00
	R 1.76	D 1.76 1.00	L 1.76 (a)														
R 2.08	D 2.48	S 2.48	L 2.48 (b)														
			1.48														
			1.00														
	6 Cyl. Engines	V-8 Engines															
Max. upshift speeds—drive range	80 MPH	73 MPH															
Max. kickdown speeds—drive range	75 MPH	68 MPH															
Torque convertor	Number of elements Three																
	Max. ratio at stall 2, 8:1	2, 5:1															
	Type of cooling (air, liquid) Air Water																
Lubricant	Capacity—refill (pt.) 15 (Approx.) 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 "Low" ("S" on 400) positions. Engine starting in "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	2.75 x 49.96 x .065
	Manual 4-speed transmission	2.75 x 49.96 x .065
	Overdrive transmission	Not Available
	Automatic transmission	2.75 x 49.96 x .065

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

(Continued)

(a) Total transmission torque multiplication in first gear is 4.93:1 with 6 cyl. and V-326 HO engine, 4.4:1 with optional V-326 2 bbl. engine.

(b) Total transmission torque multiplication in first gear is 5.7:1

(d) 3-2 @ 70, 3-1 @ 29

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac	MODEL YEAR 1967	DATE ISSUED 12-23-66			REVISED (a)
MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400

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 trunion, cross, other)	Cross
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepacked
Drive taken through (torque tube or arms, springs)		Springs and Radius Rods (a)
Torque taken through (torque tube or arms, springs)		Springs and Radius Rods (a)

DRIVE UNITS—REAR AXLE

Description	Semi-Floating Hypoid Rear Axle		
Limited Slip differential, type	Spring Loaded Clutch (Cpt.)		
Drive Pinion Offset	1.50		
No. of differential pinions	2		
Ring gear O.D. (std. ratio)	8.125		
Pinion adjustment (shim, other)	Shim		
Pinion bearing adj. (shim, other)	Collapsible Spacer		
Wheel bearing type	Single Row Ball Bearing		
Lubricant	Capacity (qt.)	3	
	Type recommended	Hypoid (a)	
	SAE viscosity number	Summer	80 or 90
		Winter	80 or 90
		Extreme cold	80 or 90

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio	2.56:1	2.78:1	2.93:1	3.08:1	3.23:1	3.36:1	3.55:1
No. of teeth	Pinion	16	14	14	13	13	11
	Ring gear	41	39	41	40	42	39

(a) L. H. rod not used with any automatic transmission or OHC-6 1 bbl. engine with manual transmission. R. H. rod not used on OHC-6 engines with automatic transmission with rear axle ratio of 3.08:1 or less.

AMA Specifications—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1967	DATE ISSUED	2-23-66	REVISED ^(*)
MODEL	FIREBIRD	FIREBIRD	SPRINT	FIREBIRD	326	FIREBIRD H. O.
						FIREBIRD 400

DRIVE UNITS—WHEELS

Type & material		Disc - Steel
Rim (size and flange type)	Std.	14 x 6 (a)
	Opt.	None
Attachment	Type (bolt or stud)	Bolt
	Circle diameter	4.75
	Number and size	5, 7/16 - 20

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	E70 x 14 (b)
	Type - Nylon, etc.	(c)
Rev/mile at 50 mph.		807
Inflation press. (cold)	Front	26 (Full Load) - 24 (Reduced Load)
	Rear	30 (Full Load) - 24 (Reduced Load)

Optional tires - size and ply

185 R x 14 radial ply, rayon cord, Type A on all models.
Inflation pressure remains unchanged with tire options.

BRAKES—SERVICE

	Drum Brakes (Std.)	Front Disc Option	
Type (duo-servo, disc, balanced, etc.)	Duo-Servo 4-wheel hydraulic	Disc	
Self adjusting (std., opt., N.A.)		Standard	
Hydraulic system type (single, dual, etc.)		Dual	
Power brake make & type (remote, integral, etc.)	Delco-Moraine, Integral Type, Vacuum Suspended		
Effective area (sq. in.) *	149.4	101.9	
Gross lining area (sq. in.) **	155.5	109.1	
Swept drum area (sq. in.) ***	269.2	323.6	
Percent brake effectiveness—front	62.6	62.6	
Drum or Rotor	Diameter	Front	9.5
		Rear	9.5
	Type and material	Cast Alloy Iron	
	Rotor (vented or solid)	----	Vented
No. pistons per caliper	----	4	
Wheel cyl- inder bore	Front	1.125	2.062
	Rear		.875
Master cylinder bore	1.00	1.125	
Available pedal travel	7.18 Std. - 4.15 with Power Opt.		
Line pressure at 100 lb. pedal load	700 Manual, 900 Power Opt.	575 Manual, 800 Power Opt.	
Shoe clearance adjustment		Spring Loaded	

* 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.

- On four road wheels - std. space saver spare tire is on 14 x 5 rim wheel.
- 2 Ply - 4 Ply rated. Std. spare tire size is 7.35 x 14 - space saver type.
- Nylon
- Tighten to heavy drag then back off 26 notches.

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MAKE OF CAR Pontiac		MODEL YEAR 1967		DATE ISSUED 12-23-66		REVISED (a)	
MODEL		FIREBIRD	FIREBIRD	FIREBIRD	FIREBIRD	FIREBIRD	FIREBIRD
		SPRINT	326	H. O.	400		
BRAKES—SERVICE (cont.) Drum Brakes (Std.)				Front Disc Opt.			
Drum or Disc		Drum		Disc Frt. - Drum Rear			
Banded or riveted		Riveted					
Material		Molded Asbestos					
Front Wheel	Size (length x width x thickness)	Prim. or out-board	7.6 x 2.5 x .196		5.95 x 1.75 x .40		
		Second. or in-board	9.85 x 2.5 x .265		5.95 x 1.75 x .40		
	Segments per shoe	One		One			
Rear Wheel	Material	Molded Asbestos					
	Size (length x width x thickness)	Prim. or out-board	7.6 x 2.0 x .196				
		Second. or in-board	9.85 x 2.0 x .265				
	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)	Integral Body - Frame Combination with Separate Ladder Type Front Frame Section
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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	15.5 x 16.0	
	Power	15.5 x 16.0	
Turning diameter	Outside front	Wall to wall (l. & r.)	40.8
		Curb to curb (l. & r.)	38.5
	Inside rear	Wall to wall (l. & r.)	22.5
		Curb to curb (l. & r.)	23.0
Outside wheel angle with inside wheel at 20°			
Manual	Gear	Type	Recirculating Ball Bearing
		Make	Saginaw
	Ratios	Gear	24:1 (a)
		Overall	24:1 (a)
No. wheel turns		4.7 - Lock to Lock	

(Continued)

(a) 28:1 with V-8 Engine or 6 Cyl. Engine with Air Conditioning (5.4 turns lock to lock).

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MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400

STEERING (cont.)

Power	Type (coaxial, linkage, etc.)		Coaxial	
	Make		Saginaw	
	Gear	Type	Recirculating Ball Bearing	
		Ratios	Gear	17.5:1
			Overall	17.5:1
	Pump driven by		Belt from Crankshaft	
Number wheel turns		3.4 - Lock to Lock		
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 1/4 to 9 1/4	
	Bearings (type)	Upper	Ball Joint	
		Lower	Ball Joint	
		Thrust	Spring Load Taken By Lower Ball Joint	
Wheel Alignment (range at curb weight and preferred)	Caster (deg.)		0 to 1° Pos.	
	Camber (deg.)		1/4° Neg. to 3/4° Pos.	
	Toe-in (outside track inches)		1/8 to 1/4	
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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MAKE OF CAR <u>Pontiac</u>	MODEL YEAR <u>1967</u>	DATE ISSUED <u>12-23-66</u> (REVISED '67)			
MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.	FIREBIRD 400

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling	None	
Provision for brake dip control	Front Suspension Geometry	
Provision for acc. squat control	Rear Suspension Geometry	
Special provisions for car jacking	Jack Locating Provisions on Front and Rear Bumpers	
Shock absorber front & rear	Type	Direct Acting - Two Way
	Make	Delco
	Piston dia.	1.00
Other special features	Firm Control Shock Absorbers Included In Firm Ride and Handling Option	

SUSPENSION—FRONT

Type and description	Ball Joint independent front suspension with upper and lower control arms mounted on rubber bushings.				
Spring	Type	Coil			
	Material	Alloy Steel			
	Size (coil design height & I.D.; bar length x dia.)	11.40, 3.60, 120 (Approx.), .5933 to .6528			
	Spring rate (lb. per in.)	275 (b)	320 (b)	320 (b)	345
	Rate at wheel (lb. per in.)	73 (b)	85 (b)	85 (b)	92
Stabilizer	Type (link, linkless, frameless)	Link			
	Material & bar diameter	Alloy Steel			

SUSPENSION—REAR

Type and description	Hotchkiss Drive				
Drive and torque taken through	Rear Springs (a)				
Spring	Type	Single Leaf			
	Material	Alloy Steel			
	Size (length x width, coil design height & I.D.; bar length & dia.)	56.0 x 2.25			
	Spring rate (lb. per in.)	100 (b)	115 (b)	115 (b)	135
	Rate at wheel (lb. per in.)	100 (b)	115 (b)	115 (b)	135
	Mounting insulation type	Rubber Bushings			
	If leaf	No. of leaves	One		
Stabilizer	Shackle (comp. or tens)	Compression			
	Type (link, linkless, frameless)	None			
	Material	---			
Track bar type	None				

- (a) Torque in forward drive taken by radius rod or rods on models where engine torque and/or gear ratios would otherwise produce excessive spring deflection.
- (b) Optional firm ride and handling springs are same rate as Firebird 400.

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MAKE OF CAR Pontiac MODEL YEAR 1967 DATE ISSUED 12-23-66 REVISED ^(*)

MODEL FIREBIRD FIREBIRD SPRINT FIREBIRD 326 FIREBIRD H. O. FIREBIRD 400

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	---
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		Top of Cylinder Block on R.H. Side Near Oil Filler (a)
Theft protection - type		Door locks, ign. sw. terminals covered by locked-on connector body, key starter control & in-harness wiring from sw. to starter and coil.
Vent window control method (crank, friction pivot)	Front	Friction Pivot
	Rear	None
Seat cushion type	Front	Zig-Zag Spring with Foam Pad
	Rear	Zig-Zag Spring with Cotton Pad
	3rd seat	---
Seat back type	Front	Zig-Zag Spring with Foam Pad
	Rear	Zig-Zag Spring with Cotton Pad
	3rd seat	---
Windshield glass type (i.e., single curved - laminated plate)		Single Curved Laminated Safety Plate
Side glass type (i.e., curved - tempered plate)		Curved Tempered Safety Plate
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved Tempered Safety Plate (b)
	Body Style	22337
Windshield glass exposed surface area		1032.6
Side glass exposed surface area		1083.7
Backlight glass exposed surface area		819.2
Total glass exposed surface area		2935.5
		22367
		990.5
		1093.8
		834.0
		2918.3

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	24.4
		Lowest	24.4
	Tail	Highest	24.6
		Lowest	24.6
Distance from C/L of car to center of bulb	Headlamp	Inside	17.9
		Outside *	24.2
	Tail	Inside	15.25
		Outside	25.25
	Directional	Front	17.4
		Rear	Same as Tail Lamps

* If single headlamps are used enter here.

- (a) Front of R.H. cylinder bank on V-8 engines.
 (b) Flexible plastic on convertible.

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MODEL _____	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326
			FIREBIRD H. O.
			FIREBIRD 400

CONVENIENCE EQUIPMENT

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

Power windows	Side Windows	Optional
	Vent Windows	Not Offered
	Backlight or tailgate	Not Offered
Power seats (specify type as well as availability)		Not Offered
Reclining front seat back		Not Offered
Front seat headrest		Optional
Radios (specify type as well as availability)		Optional: AM Push-Button, AM-FM Push-Button
Rear seat speaker		Optional
Power Antenna		Not Offered
Clock		Optional
Air Conditioner (specify type and availability)		Optional: Reheat Cycle with Bi-Level Air Distribution System.
Speed warning device		Safeguard Speedometer - Optional
Speed control device		Optional on cars with V-8 Engine and Auto. Trans. Comb.
Ignition lock lamp		Not Offered
Back up lamp		Standard
Dome lamp		Standard on Sport Coupe - Not Offered on Conv.
Glove compartment lamp		(a)
Prkg. brake signal lamp		Standard
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		(a)
Map lamp		Not Offered
Auto. trans. quad. lamp		Standard
Emergency flasher lamp		Standard
Cornering light lamp		Not Offered
Stereo Tape Player		Available with all Radio Installations
Manual Antenna		Front Mounted: Included with Radio, Rear Mounted - Optional
Power Operated Top		Optional on Convertible
Rear Window Defogger		Optional on Sport Coupe
Tachometer		Hood Mounted Tachometer Optional

(a) Optional in group comprised of glove compartment, ash tray and courtesy lamps (Courtesy lamps standard on convertible).

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WEIGHTS *

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
FIREBIRD								
Sport Coupe 22337			3089					2951
Convertible 22367			3363					3225
Accessories & Equipment Differential Weights								Remarks
Automatic Transmission			-12.0					With 6 Cyl. Engines
Automatic Transmission			-30.0					With 326 V-8 Engines
Automatic Transmission			+25.0					With 400 V-8 Engines
Power Steering			+28.0					
Power Brakes			+10.0					
Radio & Man. Antenna			+ 9.0					
Sprint Option			+55.0					230 cu. in. 4-Bbl. Eng. Plus Chassis Items
326 Option			+168.0					326 cu. in. 2-Bbl. Eng. Plus Chassis Items
H. O. Option			+192.0					326 cu. in. 4-Bbl. Eng. Plus Chassis Items
400 Option			+235.0					400 cu. in. 4-Bbl. Eng. Plus Chassis Items
Air Conditioning:								
6 Cyl. Engine			+117.0					
8 Cyl. Engine			+123.0					

* Estimated