

1972

AMA SPECIFICATIONS FORM

. . . Passenger Car

MANUFACTURER Pontiac Motor Division General Motors Corporation	CAR NAME PONTIAC - FIREBIRD	
MAILING ADDRESS Pontiac, Michigan	MODEL YEAR 1972	ISSUED: 9-3-71
		REVISED (•)

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NOTES:

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

MAKE OF CAR PONTIAC MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (e)

BODY MODEL	Body Series, Type and Number. (Use mfg'r's. code for identification)				Number of Passengers (Indicate Front/Rear)
Body Type	Firebird	Esprit	Formula	Trans Am	No. of Passengers (Fr/Rr)
2-Door Hardtop	2S87	2T87	2U87	2V87	2/2

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CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	FIREBIRD	ESPRIT	FORMULA	TRANS AM
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WIDTH

Track - Front	W101	61.3 (a)			61.7
Track - Rear	W102	60.0 (b)			60.4
Maximum overall car width	W103		73.4		
Body width at No. 2 pillar	W117		-		
Max. front doors open	W120		140.5		
Max. rear doors open	W121		-		

LENGTH

Body "O" to front of dash	L 30		1.2		
Wheelbase	L101		108.0		
Overall car length	L103		191.6		
Overhang - front	L104		40.3		
Overhang - rear	L105		43.3		
Body upper structure length	L123		93.9		
Body "O" line to ϕ of rear wheel	L127		86.7		
Body "O" line to w/s cowl point	L130		8.6		

HEIGHT

Passenger Distribution (front & rear)			2.2		
Trunk/Cargo load (lbs.)			0		
Overall height	H101		50.4		
Cowl height	H114		35.3		
Deck height	H138		38.1		
Rocker panel - front	To ground	H112	6.5		
	From front wheel ϕ		36.4		
Bottom of front door to ground	H133		9.9		
Rocker panel - rear	To ground	H111	5.5		
	From rear wheel ϕ		16.7		
Bottom of rear door to ground	H135		-		
Windshield slope angle	H122		57.4°		

GROUND CLEARANCE

Bumper to ground - front	H102		14.8		
Bumper to ground - rear	H104		14.1		
Angle of approach	H106	23.0			14.0
Angle of departure	H107		11.6		
Ramp breakover angle	H147		13.3		
Rear axle differential to ground	H153		6.6		
Min. running clearance (Specify)	H156		4.6		

(a) With 6" rims; 61.6 with 7" rims

(b) With 6" rims; 60.3 with 7" rims

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CAR AND BODY DIMENSIONS

See Pages 27, 29 for SAE Dimension Definitions

MODEL	SAE Ref. No.	FIREBIRD	ESPRIT	FORMULA	TRANS AM
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FRONT COMPARTMENT

H Point to body "O" line	L31			42.8	
Effective head room	H61			37.4	
Max. eff. leg room — accelerator	L34			43.8	
H Point to heel point	H30			6.6	
H Point travel	L17			5.6	
Shoulder room	W 3			57.4	
Hip room	W 5			56.7	
Upper body opening to ground	H50			46.7	

REAR COMPARTMENT

H Point couple distance	L50			27.4	
Effective head room	H63			36.1	
Min. effective leg room	L51			29.6	
H Point to Heel point	H31			8.2	
Min. knee room	L48			0.1	
Rear Compartment room	L 3			23.6	
Shoulder room	W 4			54.4	
Hip room	W 6			47.3	
Upper body opening to ground	H51			-	

LUGGAGE COMPARTMENT

Usable luggage capacity (cu. ft.)	V 1		7.24 (Conventional Spare)	
Liftover height	H195		29.8	
Position of spare tire storage			Flat	
Method of holding lid open			Torsion Bar Counterbalance	

STATION WAGON — THIRD SEAT

Shoulder Room	W85			
Hip room	W86			
Effective leg room	L86			
Effective head room	H86			
Seat facing direction				

STATION WAGON — CARGO SPACE

Cargo length at floor — front seat	L202			
Cargo length at belt — front seat	L204			
Cargo width — Wheelhouse	W201			
Opening width at belt	W204			
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2			

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FIREBIRD

POWER TEAMS

(Indicate whether standard or optional)

Gross bhp (brake horsepower) and gross torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

MODEL AVAILABILITY	ENGINE						TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)	
	Displ. cu. in.	Cyls.	Compr. Ratio	Gross @ RPM		Net @ RPM			
				BHP	Torque	BHP			Torque
250 Standard Firebird	250	1-bbl.	8.5			110 @ 3800	185 @ 1600	Manual (3-Sp.) Automatic (M35) Turbo Hydra-matic (M38)	3.08 (a) 3.08 (a) 3.08 (a)
350 (L30) Opt. Firebird Standard Esprit & Formula 350	350	2-bbl.	8.0			160 @ 4400(e) 175 @ 4400(f)	270 @ 2000(e) 275 @ 2000(f)	Manual (3-Sp.)(d) Automatic(M35)(g) Turbo Hydra-matic (M38)	3.42 (b) 2.73 (b), 3.08 2.73 (b), 3.08
400 (L65) Optional Esprit	400	2-bbl.	8.2			175 @ 4000	310 @ 2400	Turbo Hydra-matic (M40)	2.73 (b), 3.08
400 (L78) Std. Formula 400	400	4-bbl.	8.2			250 @ 4400	325 @ 3200	Manual (3-Sp. HD)(d) Manual (4-Sp. CR)(M22) Turbo Hydra-matic (M40)	3.42 (b) 3.42 (b) 3.08 (b), 3.42
455 HO (LS5) Opt. Formula 455 Std. Trans Am	455	4-bbl.	8.4			300 @ 4000	415 @ 3200	Manual (4-Sp. CR) Turbo Hydra-matic (M40)	3.42 (b) 3.42 (a), 3.08 (c)

- (a) Non-air conditioning only
- (b) Both air conditioning and non-air conditioning
- (c) With air conditioning only
- (d) 4-Speed Wide Ratio optional
- (e) Single exhaust
- (f) Dual exhaust
- (g) Not available on Formula 350

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MODEL		FIREBIRD	
		250 L6 Engine	350 V8 Engine
ENGINE—GENERAL			
Type, no. cyls., valve arr.	Line, 6, In-Head		90° V, 8, In-Head
Bore and stroke (nominal)	3.8750 3.525 3.8774 x 3.535		3.8750 3.746 3.8774 x 3.754
Piston displacement, cu. in.	250		350
Bore spacing (C to C)	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
Compres. ratio (nominal)	8.5:1		8.0:1
Cylinder Head Combustion Chamber Volume (cc)	93.88		89.76
Cylinder Head Material	Alloy Cast Iron		
Cylinder Block Material	Alloy Cast Iron		
Cyl. Sleeve-Wet, dry, none	None		
Number of mtg. points	Front	2	
	Rear	1	
Engine installation angle	3° 16'		2° 40'
Taxable Dia ² xNo. Cyl. horsepower 2.5	36.0		48.0
Recommended fuel regular - premium	Regular (91 Octane)		

ENGINE—PISTONS

Material		Aluminum Alloy	
Description and finish		Cam Ground Slipper Type - Tin Plated	
Weight (piston only) oz.		24.16	21.010 - 21.190
Clearance (limits)	Top land	.0345 - .0435	.024 - .029
	Skirt Top	.0005 - .0011 (a)	.0025 - .0033 (b)
	Bottom	--	.0020 - .0038
Ring groove diameter	No. 1 ring	3.434 - 3.444	3.437 - 3.427
	No. 2 ring	3.434 - 3.444	3.437 - 3.427
	No. 3 ring	3.446 - 3.456	3.456 - 3.446
	No. 4 ring	None	

(a) Measured 2.44 from top of piston.

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

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (a)MODEL 400 V8 Engines FIREBIRD 455 HO V8 Engine

ENGINE - GENERAL

Type, no. cyls., valve arr.	90° V, 8, In-Head	
Bore and stroke (nominal)	4.1200 x 3.746 4.1224 3.754	4.1510 4.206 4.1534 x 4.214
Piston displacement, cu. in.	400	455
Bore spacing (C to C)	4.62	
No. system	L. Bank	1-3-5-7
(front to rear)	R. Bank	2-4-6-8
Firing order	1-8-4-3-6-5-7-2	
Compress. ratio (nominal)	8.2:1	8.4
Cylinder Head Combustion Chamber Volume (cc)	96.36 2-bbl. (L65) 95.61 4-bbl. (L78)	111.89
Cylinder Head Material	Alloy Cast Iron	
Cylinder Block Material	Alloy Cast Iron	
Cyl. Sleeve-Wet, dry, none	None	
Number of	Front	2
mtg. points	Rear	1
Engine installation angle	2° 40'	
Taxable horsepower	Dia ² xNo. Cyl. 2.5	54.3 55.2
Recommended fuel regular - premium	Regular (91 Octane)	

ENGINE - PISTONS

Material	Aluminum Alloy	
Description and finish	Cam Ground Slipper Type - Tin Plate	
Weight (piston only) oz.	22.070 - 22.250	22.515 - 20.695
Clearance (limits)	Top land	.017 - .021 .024 - .029
	Skirt	Top .0025 - .0033 (a) Bottom .0020 - .0038 .0020 - .0038 (b)
Ring groove diameter	No. 1 ring	3.677 - 3.667 3.710 - 3.700
	No. 2 ring	3.677 - 3.667 3.710 - 3.700
	No. 3 ring	3.680 - 3.670 3.740 - 3.730
	No. 4 ring	None

- (a) Pistons selected for clearance at 1.110 below top of piston.
 (b) Pistons selected for clearance at 1.08 below top of piston.

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MODEL 250 L6 Engine FIREBIRD 350 V8 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 (a) No. 1 (b) No. 2 Taper Face - Lubrite	Moly Channel Barrel Face Taper Face - Tin Plated
	Width	No. 1 .0630, No. 2 .0628	.0778
	Gap	.015	.019
Oil	Description - material, coating, etc.	Multi-Piece (2 Rails and 1 Spacer Expander) Rails: Steel with Chrome Plated O.D. Expander: Stainless Steel	
	Width	.188	.186
	Gap	.035	
Expanders		In Oil Ring Assembly	

ENGINE - PISTON PINS

Material		Chromium Steel	SAE 1016
Length		3.00	3.25
Diameter		.9272	.9802
Type	Locked in rod, in piston, floating, etc.	Locked in Rod	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.00015 - .00025	.0005 - .0007
	In rod	Press Fit	
Direction & amount offset in piston		To Right .060	To Right .063

ENGINE - CONNECTING RODS

Material		Forged Steel	Arma Steel
Weight (oz.)		20.0	31.7
Length (center to center)		5.700	6.625
Bearing	Material & Type	(c) (d)	Moraine 100-A(d)
	Overall length	.807	.88
	Clearance (limits)	.0007 - .0027	.0005 - .0025
	End play	.009 - .013	.012 - .017 (Total for Two)

- (a) Except L6 No. 1 ring has inside bevel.
 (b) Barrel face chrome plated.
 (c) Sintered copper lead alloy.
 (d) Steel backed removable precision.

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MODEL	400 V8 Engines	FIREBIRD	455 HO V8 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 - No. 1 Barrel Face Moly Channel, No. 2 Taper Face Tin Plated (a)
	Width	.0778
	Gap	No. 1 - .019, No. 2 - .015
Oil	Description - material, coating, etc.	Multi-Piece (2 Rails and 1 Spacer Expander) Rails - Steel with Chrome Plated O.D. Expander - Stainless Steel
	Width	.186
	Gap	.035
Expanders		In Oil Ring Assembly

ENGINE - PISTON PINS

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

ENGINE - CONNECTING RODS

Material		Arma Steel
Weight (oz.)		31.7
Length (center to center)		6.625
Bearing	Material & Type	Moraine 400-A (b) (c)
	Overall length	.88
	Clearance (limits)	.0005 - .0026 .0010 - .0031
	End play	.012 - .017 (Total for Two)

(a) No. 2 4-bbl. uses taper face moly.

(b) Steel backed removable precision.

(c) Material is Moraine 100-A on optional 400 2-bbl. engine.

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MODEL 250 L6 Engine FIREBIRD 350 & 400 V8 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
	Clearance	.0003 - .0029
	Journal dia. and bearing overall length	No. 1 2.30 x .752
		No. 2 2.30 x .752
		No. 3 2.30 x .752
		No. 4 2.30 x .752
		No. 5 2.30 x .752
		No. 6 2.30 x .752
		No. 7 2.30 x .760
	Dir. & amt. cyl. offset	None
	No. bolts/main brg. cap	2
Crankpin journal diameter	2.00	2.25

ENGINE – CAMSHAFT

Location	Right Side		Between Cylinder Banks
Material	Hardened Alloy Cast Iron		
Bearings	Material	High Lead Babbitt on Steel	
	Number	4	5
Type of Drive	Gear or chain	Gear	Chain
	Crankshaft gear or sprocket material	Steel	Hardened Sintered Iron
	Camshaft gear or sprocket material	Bakelite - Fabric Comp. - Steel Hub	Heat Treated Cast Iron
	Timing chain	No. of links	60
		Width	.88 (Morse)
		Pitch	.375

* Material changes to Moraine 400-A as follows:

#4 lower of 350 and 400 2-bbl. engines.

#1, 2, 3, and 4 lower locations of 400 4-bbl. engines.

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MODEL FIREBIRD
455 HO V8 Engine

ENGINE – CRANKSHAFT

Material		Nodular Iron	
Vibration damper type		Rubber Floated Weight	
End thrust taken by bearing (No.)		4	
Crankshaft end play		.0035 - .0085	
Main bearing	Material & type		Durex 100-A* Steel Backed, Removable - Precision
	Clearance		.0005 - .0021**
	Journal dia. and bearing overall length	No. 1	3.25 x .94
		No. 2	3.25 x .94
		No. 3	3.25 x .94
		No. 4	3.25 x 1.19
		No. 5	3.25 x 1.59
		No. 6	None
		No. 7	None
Dir. & amt. cyl. offset		None	
No. bolts/main brg. cap		Location #1 - 2; Locations 2, 3, & 4 use 4 bolts each	
Crankpin journal diameter		2.25	

ENGINE – CAMSHAFT

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

* Material changes to Moraine 400-A as follows:
#1, 2, 3 and 4 upper locations of HO engines.
All lower locations on all engines.

** Clearance changes to .00035 - .00195 on #1 location on all engines except HO.

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MODEL

FIREBIRD
250 L6 Engine

ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)			Standard	
Valve rotator, type (intake, exhaust)			None	
Rocker ratio			1.75:1	
Operating tappet clearance (indicate hot or cold)	Intake		0	
	Exhaust		0	
Timing (based on top of ramp points)	Intake	Opens (BTC)	16°	
		Closes (ABC)	48	
		Duration - deg.	244°	
	Exhaust	Opens (BBC)	46.5	
		Closes (ATC)	17.5	
		Duration - deg.	244°	
	Valve opening overlap		33.5	
Intake	Material		Alloy Stl. Aluminized	
	Overall length		4.912	
	Actual overall head dia.		1.715-1.725	
	Angle of seat & face		46° Seat - 46° Face	
	Seat insert material		Not Used	
	Stem diameter		.3410-.3417	
	Stem to guide clearance		.0010-.0027	
	Lift (- zero lash)		.3880	
	Outer spring press. & length	Valve closed (lb. in.)	56 @ 1.66	
		Valve open (lb. in.)	180 @ 1.27	
	Inner spring press. & length	Valve closed (lb. in.)	None	
		Valve open (lb. in.)	None	
	Exhaust	Material		21-4N Aluminized
		Overall length		4.923
Actual overall head dia.		1.505-1.495		
Angle of seat & face		46° Seat - 45° Face		
Seat insert material		None		
Stem diameter		.3417-.3410		
Stem to guide clearance		.0010-.0027		
Lift (- zero lash)		.3880		
Outer spring press. & length		Valve closed (lb. in.)	56 @ 1.66	
		Valve open (lb. in.)	180 @ 1.27	
Inner spring press. & length		Valve closed (lb. in.)	None	
		Valve open (lb. in.)	None	

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MODEL		FIREBIRD 350 CU. IN. ENGINE			
ENGINE - VALVE SYSTEM		With M38 Trans.	Except M38 Trans.		
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 (based on top of ramp points)	Intake	Opens (°BTC)	30	26	
		Closes (°ABC)	63	63	
		Duration - deg.	273	269	
	Exhaust	Opens (°BBC)	77	72	
		Closes (°ATC)	25	25	
		Duration - deg.	282	277	
	Valve opening overlap		55	51	
Intake	Material			GM-8440 w/Alum. Treatment on Face & Fl.Cr.Plated Stem	
	Overall length			4.981	
	Actual overall head dia.			1.963 - 1.957	
	Angle of seat & face			45° Seat - 44° Face	
	Seat insert material			Not Used	
	Stem diameter			.3419 - .3412	
	Stem to guide clearance			.0016 - .0033	
	Lift (- zero lash)			.410 + .011	.377 + .011
	Outer spring press. & length	Valve closed (lb. in.)	54.3 @ 1.5898	54.3 @ 1.5898	
		Valve open (lb. in.)	68.3 @ 1.1793	68.3 @ 1.2125	
	Inner spring press. & length	Valve closed (lb. in.)	125.1 @ 1.5498	119.4 @ 1.5498	
		Valve open (lb. in.)	139.1 @ 1.1393	133.4 @ 1.1725	
	Material			21-2 Steel w/Alum. Treatment on Face & Fl.Cr. Plated Stem	
	Overall length			4.8865	
	Actual overall head dia.			1.773 - 1.767	
Angle of seat & face			45° Seat - 44° Face		
Seat insert material			Not Used - Seat is Heat Treated		
Stem diameter			.3414 - .3407		
Stem to guide clearance			.0021 - .0038		
Lift (- zero lash)			.414 + .011	.413 + .011	
Exhaust	Outer spring press. & length	Valve closed (lb. in.)	54.3 @ 1.5898	54.3 @ 1.5898	
		Valve open (lb. in.)	68.3 @ 1.1748	68.3 @ 1.1767	
	Inner spring press. & length	Valve closed (lb. in.)	125.2 @ 1.5498	125.5 @ 1.5498	
		Valve open (lb. in.)	139.2 @ 1.1348	139.5 @ 1.1367	

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MODEL		FIREBIRD 400 CU. IN. ENGINES			
ENGINE - VALVE SYSTEM		Opt. 4-Bbl. Auto. Trans.	Opt. 2-Bbl. Auto. Trans.	Man. Trans.	
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 (based on top of ramp points)	Intake	Opens (BTC)	23°	26°	
		Closes (ABC)	70°	63°	
		Duration - deg.	273°	269°	
	Exhaust	Opens (BBC)	78°	72°	
		Closes (ATC)	31°	25°	
		Duration - deg.	289°	277°	
Valve opening overlap		54°	51°	54°	
Intake	Material GM-8440 w/Alum. Treatment on Face & Fl. Cr. Plated Stem				
	Overall length		4.959	4.981	4.959
	Actual overall head dia.		2.113-2.107	1.963-1.957	2.113-2.107
	Angle of seat & face		30° Seat-29° Face	45° Seat-44° Face	30° Seat-29° Face
	Seat insert material		Not Used	Not Used	Not Used
	Stem diameter		.3419-.3412	.3419-.3412	.3419-.3412
	Stem to guide clearance		.0016-.0033	.0016-.0033	.0016-.0033
	Lift (zero lash)		.410+.011	.377+.011	.410+.011
	Outer spring press. & length	Valve closed (lb. in.)	58.0 72.0 @ 1.5683	54.2 68.2 @ 1.5903	52.8 66.8 @ 1.5983
		Valve open (lb. in.)	128.8 @ 1.1578 142.8	119.3 @ 1.2130 133.3	123.6 @ 1.1878 137.6
	Inner spring press. & length	Valve closed (lb. in.)	31.8 @ 1.5283 41.8	28.3 @ 1.5503 38.3	50.0 @ 1.5283 62.0
		Valve open (lb. in.)	96.3 @ 1.1178 106.3	87.6 @ 1.1730 97.6	115.8 @ 1.1178 127.8
	Exhaust	Material 21-2 Steel w/Alum. Treatment on Face & Fl. Cr. Plated Stem			
		Overall length		4.8645	4.8865
Actual overall head dia.		1.773-1.767	1.663-1.657	1.773-1.767	
Angle of seat & face		45° Seat - 44° Face			
Seat insert material		Not Used - Seat is Heat Treated			
Stem diameter		.3414 - .3407			
Stem to guide clearance		.0021 - .0038			
Lift (zero lash)		.413+ .011	.413+.011	.413+.011	
Outer spring press. & length		Valve closed (lb. in.)	58.0 72.0 @ 1.5683	54.2 68.2 @ 1.5903	52.8 66.8 @ 1.5983
		Valve open (lb. in.)	129.4 @ 1.1544 143.4	125.5 @ 1.1772 139.5	124.2 @ 1.1844 138.2
Inner spring press. & length	Valve closed (lb. in.)	31.8 @ 1.5283 41.8	28.3 @ 1.5503 38.3	50.0 @ 1.5283 62.0	
	Valve open (lb. in.)	96.8 @ 1.1144 106.8	93.2 @ 1.1372 103.2	116.3 @ 1.1144 128.3	

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (*)

MODEL

FIREBIRD
455 HO Engine

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 (based on top of ramp points)	Intake	Opens (-BTC)	31°	
		Closes (-ABC)	77°	
		Duration (deg.)	288°	
	Exhaust	Opens (-BBC)	90°	
		Closes (-ATC)	32°	
		Duration (deg.)	302°	
	Valve open overlap (deg.)		63°	
Intake	Material		GM-8440 w/Alum. Treatment on Face & Fl.Cr. Plated Stem	
	Overall length		4.959	
	Actual overall head dia.		2.113 - 2.107	
	Angle of seat & face (deg.)		30° Seat - 29° Face	
	Seat insert material		Not Used	
	Stem diameter		.3419 - .3412	
	Stem to guide clearance		.0016 - .0033	
	Lift (+ zero lash)		.410 ± .011	
	Outer spring press. & length	Valve closed (lb. ± in.)	59.3 73.3 @ 1.5608	
		Valve open (lb. ± in.)	130.8 144.8 @ 1.1462	
	Inner spring press. & length	Valve closed (lb. ± in.)	33.0 43.0 @ 1.5208	
		Valve open (lb. ± in.)	98.1 108.1 @ 1.1062	
	Exhaust	Material		21-2 Steel w/Alum. Treatment on Face & Fl.Cr. Plated Stem
		Overall length		4.8645
		Actual overall head dia.		1.773 - 1.767
		Angle of seat & face (deg.)		45° Seat - 44° Face
Seat insert material		Not Used - Seat is Heat Treated		
Stem diameter		.3419 - .3412		
Stem to guide clearance		.0021 - .0038		
Lift (+ zero lash)		.413 ± .011		
Outer spring press. & length		Valve closed (lb. ± in.)	59.3 73.3 @ 1.5608	
		Valve open (lb. ± in.)	130.7 144.7 @ 1.1469	
Inner spring press. & length		Valve closed (lb. ± in.)	33.0 43.0 @ 1.5208	
		Valve open (lb. ± in.)	98.0 108.0 @ 1.1069	

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (a)

MODEL 250 L6 Engine FIREBIRD 350 V8 Engine 400 & 455 V8 Engine

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure		
	Connecting rods	Pressure		
	Piston pins	Splash		
	Camshaft bearings	Pressure		
	Tappets	Pressure		
	Timing gear or chain	Nozzle		Metered Jet
	Cylinder walls	Splash		Metered Jet
Oil pump type	Spur Gear			
Normal oil pressure (lb. / engine rpm)	30-45 @ 1500	30-40 Above 2600	30-40 Above 2600	(a)
Oil press. sending unit (elect. or mech.)	Electric			
Type oil intake (floating, stationary)	Stationary Screen			
Oil filter system (full flow, part., other)	Full Flow			
Filter replacement (element, complete)	Complete			
Capacity of cr case, less filter-refill (qt.)	4		5	
Oil grade recommended (SAE viscosity and temperature range)	Above 20° F.: 20W, 10W-30, 10W-40, 20W-40 From 0° to 60° F.: 10W, 5W-30, 10W-30, 10W-40 Below 0° F.: 5W, 5W-20, 5W-30			
Engine Service Reqmt. (MM, MS, etc.)	SE			

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	Single (b)
Muffler No. & type (reverse flow, straight thru, separate resonator)	One - Reverse Flow	
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .076 (c)
	Main	2.00 x .057-.071 2.25 x .084 (d)
Tail pipe dia. (O.D. & wall thickness)	1.88 x .062-.075	2.00 x .048 (e)

(a) 400 2-bbl. only; 55-60 above 2600 for 400 4-bbl. and 455 engines

(b) Dual standard on Formula & Trans Am series

(c) Not used with dual system

(d) 2.00 x .084 on dual system except 455 HO which is 2.25 x .084

(e) Aluminized

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (•)

MODEL FIREBIRD 250 L6 Engine 350 V8 Engine 400 & 455 HO V8 Engines

ENGINE – FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor			
Fuel Tank	Refill capacity (U.S. gals.)	17.0			
	Filler location	Center Rear			
Fuel Pump	Type (elec. or mech.)	Mechanical			
	Locations	Right Front of Eng.	Left Frt. of Engine		
	Pressure range	4.0 - 5.5 PSI	5.0 - 6.5 PSI		
Vacuum booster (std., optional, none)		None			
Fuel Filter	Type and Locations	Plastic Fabric In Fuel Tank and Sintered Bronze In Carburetor Inlet (a)			
	Choke type	Automatic			
Carburetor	Intake manifold heat control (exhaust or water)		Exhaust		
	Air cleaner type (b)	Standard	Oil Wetted Paper		
		Optional	Two-Stage - Wetted Plastic Foam Over Paper Element		
	Idle speed (spec. neutral or drive)	Manual N	700	900	600
		Automatic D	550	625	625 (c)
	N D	Idle A-F mix.	Not Specified		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Borrel Size
			Make	Model		
Firebird - Std.	250	Manual	Rochester	7041017	1,1-bb1	1.69
		Automatic	Rochester	7041014	1,1-bb1	1.69
Firebird 350 Opt.	350	Manual	Carter	488062	1,2-bb1	1.43
Esprit 350 Std.		Automatic	Rochester	7042062	1,2-bb1	1.69
Formula 350 Std.						
Esprit - Opt.	400	Automatic	Rochester	7042060	1,2-bb1	1.69
Formula 400 Std.	400	Manual	Rochester	7042263	1,4-bb1	P. 1.38
		Automatic	Rochester	7042264	1,4-bb1	S. 2.25
Formula 455 Std.	455	Manual	Rochester	7042273	1,4-bb1	P. 1.38
Trans Am Std.	HO	Automatic	Rochester	7042270	1,4-bb1	S. 2.25

- (a) Pleated paper instead of sintered bronze in all 1- & 4-bb1. carburetors
 (b) Includes provisions for thermostatic control of carburetor inlet air temperature
 (c) 500 on 4-bb1.

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (•)

MODEL 6 Cyl. Engine FIREBIRD V8 Engines

ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure Vented											
Radiator cap relief valve pressure	14-17 PSI											
Circulation thermostat	Type (choke, bypass)	Choke										
	Starts to open at (°F)	195										
	Type (centrifugal, other)	Centrifugal										
Water pump	GPM 1000 pump rpm	26 @ 2000 17										
	Number of pumps	One										
	Drive (V-belt, other)	V-Belt										
	Bearing type	Sealed Ball Bearing										
By-pass recirculation type (inter., ext.)	Internal											
Radiator core type (cellular, tube and fin, other)	Tube and Center											
Cooling system capacity	With heater (qt.)	12.1 M.T.; 12.0 A.T. 19.4 (350), 18.6 (400), 17.9 (455)										
	Without heater (qt.)	Heater Standard Equipment										
	Opt. equipment-specify (qt.)	N.A. with Air Conditioning 20.3 (350), 18.7 (400), 19.0 (455) All with A/C										
Water jackets full length of cyl. (yes, no)	Yes											
Water all around cylinder (yes, no)	Yes											
Radiator hose	Lower	Number and type (molded, straight)	One, Molded									
		Inside diameter	1.50									
	Upper	Number and type (molded, straight)	One, Molded									
		Inside diameter	1.50									
	By-pass	Number and type (molded, straight)	Hose Not Used									
		Inside diameter	--									
Fan	Number of blades & spacing	4 - 65° & 115°	4 - 76° & 104° (a) (b)									
	Diameter	15.62	19.0 (a) (b)									
	Ratio-fan to crankshaft rev.	1.15:1	.91:1 (1.25:1 with A/C)									
	Fan cutout type	Fluid Clutch - Thermostatically Controlled V8 (A/C Only)										
* Drive belts (indicate belt used by letter)	Bearing type	See Water Pump										
	Fan	A	B, C	A, D	E, D	G	H, I	G	H, K	L, K		
	Generator or alternator	A	B, C	A, D	E, F	G	H	G	H	L		
	Water Pump	A	B, C	A, D	E, D	G	H, I	G	H, K	L, K		
	Power Steering		C		E		I		K	K		
	Air Conditioning			D	D			J	J	J		
		L6 Engine					V8 Engine			80 Amp. Alt.		

* Drive Belt Dimensions	L	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°	36°	36°	36°	36°	36°	36°	36°
Nominal length (SAE)	52.26	37.75	37.3	48.5	53.75	49.5	31.00	47.5	48.0	51.08	59.24	50.5
Width	.47	.38	.38	.38	.47	.38	.38	.38	.38	.47	.47	.47

(a) 5-blade 19 diameter power-flex fan std. on Formula 400 & Formula 455

(b) Fan capacity increases on A/C cars

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (•)

MODEL FIREBIRD

VEHICLE EMISSION CONTROL

Exhaust Emission Control	Type (Air injection, engine modifications, other)		
	Air Injection Pump	Type	
		Displacement	
		Drive ratio	
		Drive type	
		Relief valve (type)	
	Air Injection System	Filter (describe)	
		Air distribution (head, manifold, etc.)	
		Point of entry	
		Injection tube i.d.	
Check valve type			
	Backfire protection (type)		
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)	Standard	Induction System
		Optional	None
	Control Unit	Make and model	AC Type CV-679C
		Location	Push Rod Cover
		Energy source (manifold vacuum, carburetor, other)	Manifold Vacuum
		Control method (variable orifice, fixed orifice, other)	Variable Orifice
	Complete system	Discharges (to intake manifold, other)	Intake Manifold
		Air inlet (breather cap, other)	Through Filter In Carburetor Air Cleaner
		Flame arrestor (screen, other)	Check Valve
	Evaporative Emission Control	Fuel Tank	Refill Capacity (U.S. gallons)
Thermal expansion volume (cu. ft.)			N/A
Pressure relief location (lbs.)			.903 - 1.265 in Cap
Vacuum relief location (lbs.)			.181 - .506 in Cap
Vapor-liquid separator type			Stand Pipe
		Vapor vented to (crankcase, canister, other)	Canister
Carbu- retor		Vapor vented to (crankcase, canister, other)	Canister
Vapor Storage	Storage provision (crankcase, canister, other)	Canister	
	Volume (cu. ft.) or capacity (grams)	.055 Cu. Ft.	
	Control valve type	Thermal (Engine Coolant Temperature)	

STANDARD ENGINE PROVIDES EXHAUST EMISSION CONTROL

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (*)

FIREBIRD

MODEL 250 L6 350 V8 400 V8 455 HO V8

ELECTRICAL — SUPPLY SYSTEM

Battery	Make and Model		Delco Y-54(a)	Delco Y-58(a)	Delco R-58	Delco R-88S
	Voltage Rtg. & Total Plates		12-54	12-54	12-66	12-78
	SAE Designation & Amp. Hr. Rtg.		17 MI-45 Amp. Hr.	2 SM-53 Amp. Hr.	2 SM-61 Amp. Hr.	2 SM-62 Amp. Hr.
	Location		Underhood - R.H. Side	Underhood - L.H. Side		
	Terminal grounded		Negative			
Generator or Alternator	Make		Delco Remy			
	Model		1100927	1100927 (b) (c)		
	Type and rating		37 Amp			
	Output at engine idle (neutral)		5-10 Amps			
Regulator	Ratio-Gen. to Cr. s rev.		2.80:1 (3.02:1 with A/C)			
	Make					
	Model					
	Type					
	Cutout relay	Closing voltage generator rpm				
		Reverse current to open				
	Regulated	Voltage				
		Current				
	Voltage test conditions	Temperature				
		Load				
Other						

REGULATOR INTEGRAL WITH ALTERNATOR
NO EXTERNAL REGULATOR USED

ELECTRICAL — STARTING SYSTEM

Starting Motor	Make		Delco Remy			
	Model		1108365	1108445	1108446	
	Rotation (drive end view)		Clockwise			
Motor control	Switch (solenoid, manual)		Solenoid			
	Starting procedure		Place gearshift lever in neutral and depress clutch. *With cold engine, depress accelerator pedal to floor and release. With warm engine, hold accelerator pedal about halfway down, turn ignition key clockwise to engage starter, release key as soon as engine starts. *Use neutral or park with automatic transmission. (No clutch)			
Motor Drive	Engagement type					
	Pinion meshes (front, rear)		Rear	Front		
	Number of teeth	Pinion	9			
		Flywheel	Manual	153	166	
	Flywheel tooth face width	Manual	153	166		
		Auto.	.41	.40		
	Auto.	.41	.40			

(a) Delco R-58 used with A/C or heavy duty battery option

(b) 1100928 (55 amp) with A/C or rear window defogger

(c) 1101015 (80 amp) heavy duty with A/C and rear window defogger and power steering

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (a)

FIREBIRD

MODEL _____

ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR

		250 6 Cyl.	350 V8	400 V8 2-bbl.	400 V8 4-bbl.
Breaker gap (in.)		.019	.016		
Cam angle (deg.)		31-34	28-32		
Brkr. arm tension (oz.)		19-23	19-23		28-32
Distributor	Manual	1110489	1112140	--	1112121
	Automatic	1110489	1112118	1112119	1112121
Timing	Manual	4° BTDC at Idle	8° BTDC at Idle	--	8°
	Automatic	4° BTDC at Idle	10° BTDC at Idle	10°	10°

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1110489	1100	14° @ 2300	24° @ 4100	7 - 9	23
1112140	1600	11° @ 2000	22° @ 4600		
1112118	1600	7° @ 2000	18° @ 4600	6 - 8	20
1112119	1600	8° @ 2000	24° @ 4600	8 - 10	20
1112121	1400	10° @ 2400	24° @ 4600	6 - 8	20

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MODEL _____ FIREBIRD

ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR

455 V8 H.O.

Breaker gap (in.)		No Breaker (a)
Cam angle (deg.)		No Breaker
Breaker arm tension		No Breaker
Distributor	Manual	1112133
	Automatic	1112133
Timing	Manual	8° BTDC at Idle
	Automatic	10° BTDC at Idle

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1112133	1150	11° @ 2000	28° @ 4600	6 - 8	20

(a) Unitized transistorized ignition system

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (•) _____MODEL _____ FIREBIRD
250 L6 350 V8 400 V8 455 HO V8

ELECTRICAL – IGNITION SYSTEM

Type	Conventional — Std., Opt., N.A.		Standard			
	Transistorized — Std., Opt., N.A.		Not Available			Std. (a)
	Other (specify)		--			
Coil	Make		Delco Remy			
	Model		1115208		1115424	
	Amps	Engine stopped	3.5		3.4	
		Engine idling	2.8		2.1	
Spark Plug	Make		AC			
	Model		R46-T	R46-TS	R46-TS (b)	R45-TS
	Thread (mm)		14			
	Tightening torque (lb. ft.)		15-25			
	Gap		.033 - .038			
Cable	Conductor type		Distributed Resistance			
	Insulation type		Neoprene			
	Spark plug protector		Neoprene Boot		Hypalon Boot	

ELECTRICAL – SUPPRESSION

Locations & type	Internal distributor point shielding, wide gap distributor rotor, resistance spark plugs (5000 OHMS), distributed resistance secondary cables, hood ground slip and 0.3 MFD ignition coil bypass capacitor.
------------------	---

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Mechanical
	Trip odometer (std. opt., N.A.)	No
Charge indicator - type		Telltale Lamp
Temperature indicator - type		Telltale Lamp
Oil pressure indicator - type		Telltale Lamp
Fuel indicator - type		Electric Gage
Windshield wiper	Type - Standard	2-Speed Electric
	Type - Optional	2-Sp. Electric-Concealed Park, L.H. Articulated (d)
Windshield washer	Type - Standard	Electric - Pump Integral with Wiper Motor
	Type - Optional	None
Horn	Type	Vibrator
	Number used	1 Std. (e)
	Amp draw (each)	4.3 to 5.9 @ 12.5 V.
Other		(c)

(a) Unitized transistorized ignition system

(b) 2-bbl. engines; R45-TS for 4-bbl.

(c) Optional instrument cluster with temperature, oil pressure, and battery telltales replaced with a temperature gage, oil pressure gage, and voltmeter respectively. A clock and/or an engine tachometer are also included with the option.

(d) Pulse wiper feature is actuated by depressing the wash button to Detent. Wiper will continue to operate until button is released.

(e) Second horn optional.

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (e)

MODEL FIREBIRD 6 Cyl. Engine 350 400 455
 V8 Engines

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	Own - Dry			
Type pressure plate springs	Disc Spring			
Total spring load (lb.)	1750	2050	2350	2750
No. of clutch driven discs	One			
Material	Woven Molded Asbestos			
Outside & inside dia.	9.12 x 6.12	10.4 x 6.5	11.0 x 6.5	
Total eff. area (sq.in.)	71.82	85.56	104.01	
Thickness	.135	.140	.135	
Engagement cushioning method	Driven Plate Waved Spoke Springs			
Release bearing	Type & method of lubrication	Ball Thrust - Prepacked & Sealed		
Torsional damping	Methods: springs, friction material	Coil Springs and Metal to Metal Friction		

DRIVE UNITS – TRANSMISSIONS

	6 Cyl.	350	400 2-bbl.	400 4-bbl.	455 HO
Manual 3-speed (std., opt. N.A.)	Standard	Standard	N/A	N/A	N/A
Manual 4-speed (std., opt. N.A.)	N/A	Optional	N/A	Std.	Std.
Automatic (std., opt. N.A.)	Optional				Std.

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3-Sp. 250 L6	3-Sp. 350 V8	4-Sp. 350 V8	4-Sp. Wide Ratio	4-Sp. Close Ratio
Transmission ratios	In first	2.85:1	2.54:1	2.54:1	2.52:1	2.20:1
	In second	1.68:1	1.50:1	1.80:1	1.88:1	1.64:1
	In third	1.00:1	1.00:1	1.44:1	1.46:1	1.28:1
	In fourth	--	--	1.00:1	1.00:1	1.00:1
	In reverse	2.95:1	2.63:1	2.54:1	2.59:1	2.27:1
Synchronous meshing, specify gears		All Forward				
Shift lever location		Steering Column	Floor			
Lubricant	Capacity (pt.)		3.5	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			

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (*)MODEL FIREBIRD
250 L6 & 350 V8 250 L6 & 350 V8 400 & 455 V8

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Automatic			Turbo Hydra-matic																																		
Type describe		2-Speed Torque Converter			3-Speed Torque Converter																																		
Selector location		Steering Column (a)																																					
List gear ratios Selector Pattern and indicate which are used in each selector position		P	R	N	D	L	P	R	N	D	S	L	P	R	N	D	S	L																					
		1.82			1.82 1.82		1.92			2.52 2.52 2.52			2.08			2.48 2.48 2.48																							
					1.00					1.52 1.52						1.48 1.48																							
										1.00						1.00																							
		250 L6																																					
		350 V8			1.76 1.76 1.76																																		
					1.00																																		
		250 L6			350 V8			250 L6			350 V8			400 2-bbl.			400 4-bbl.			455 HO																			
Max. upshift speed—drive range (b)		55			69			69			78			78			81			81																			
Max. kickdown speed—drive range (b)		51			65			64			73			72			75			75																			
Torque converter		Number of elements																	Three																				
		Max. ratio at stall																	2.15:1			2.00:1			2.30:1			2.50:1			2.00:1			2.30:1			2.30:1		
		Type of cooling (air, liquid)																	Liquid																				
		Nominal diameter																	11.00			11.75			12.5														
Lubricant		Capacity—refill (pt.)																	6			7.5																	
		Type recommended																	GM Dexron R Automatic Transmission Fluid																				
Special transmission features																																							

DRIVE UNITS – PROPELLER SHAFT

	250 L6 and 350 V8	400 and 455 V8
Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	2.75 x 48.55 x .065
	Manual 4-speed trans.	2.75 x 48.55 x .065
	Overdrive transmission	Not Available
	Automatic transmission	2.75 x 48.00 x .065

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

(Continued)

(a) Floor shift controls with optional console

(b) Based on non-air conditioning car with standard axle for engine indicated

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (e)

MODEL FIREBIRD 250 L6 Engine 350 V8 Engine 400 & 455 V8 Engines

DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		Not Used	
	Lubrication (fitting, prepack)		Not Used	
Slip Yoke	Type		Splined	
	Number of teeth		27	32
	Spline O.D.		1.175	1.375
Universal joints	Make and Mfg. No.		Chevrolet - Size 1285	Chevrolet - Size 1315(a)
	Number used		Two	
	Type (ball and trunnion, cross)		Cross	
	Rear attach.(u-bolt, clamp, etc.)		Strap and Bolt	
	Bearing	Type (plain, anti-friction)	Anti-Friction	
		Lubric. (fitting, prepack)	Prepacked	
Drive taken through (torque tube or arms, springs)			Springs	
Torque taken through (torque tube or arms, springs)			Springs	

DRIVE UNITS – AXLE

Type (front, rear)		Rear	
Description		Semi-Floating, Overhang Hypoid Pinion & Ring Gear	
Limited Slip differential, type		Spring Loaded Clutches (Optional)	
Drive Pinion Offset		1.75	
No. of differential pinions		2	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		Collapsible Spacer	
Wheel bearing type		Single Row Cylindrical	
Lubricant	Capacity (pt.)		4.25
	Type recommended		Meeting Military Specs. MIL-L-2105B (b)
	SAE viscosity number	Summer	80 or 90
		Winter	80 or 90
		Extreme cold	80 or 90

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.73	3.08	3.42	3.73
No. of teeth	Pinion	15	13	12	11
	Ring gear	41	40	41	41
Ring Gear O.D.		8.500			

(a) Except 3.42 axle uses Saginaw size 44.

(b) Special lubricant required for limited slip differential.

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED ^(*)

MODEL	STD. FIREBIRD; ESPRIT	FORMULA	TRANS AM
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DRIVE UNITS — TIRES AND WHEELS (STANDARD)

TIRES	Size, load range, ply		E78-14B	F70-14B	F60-15B
	Type (bias, radial, etc.)			Bias-Belted	
	Normal max. load inflation pressure (cold)	Front		26	
		Rear		26	
	Rev./mile @ 45 mph		799	782	801
WHEELS	Type & material			Disc - Steel	
	Rim (size & flange type)		14x6JJ	14x7JJ	15x7JJ
	Attachment	Type (bolt or stud)		Stud	
		Circle diameter		4.75	
		Number & size		5, 7/16-20	
	Spare wheel (same or other)			Same	

DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)

Size, load range, ply		F78-14B	
Type (bias, radial, etc.)		Bias-Belted	
Normal max. load inflation pressure (cold)	Front	26	
	Rear	26	
Rev./mile @ 45 mph		787	
Wheel type & material		Disc - Steel	
Rim (size & flange type)		14x7JJ; Optional Rally II is 14x7JJ	

DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)

Size, load range, ply		F70-14B	
Type (bias, radial, etc.)		Bias-Belted	
Normal max. load inflation pressure (cold)	Front	26	
	Rear	26	
Rev./mile @ 45 mph		782	
Wheel type & material		Disc - Steel	
Rim (size & flange type)		14x7JJ; Optional Honeycomb is 14x7JJ or 15x7JJ	

BRAKES — PARKING

Type of control		Foot Lever Application - Hand Pull Release
Location of control		Below Instrument Panel at Left of Steering Column
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

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (e)MODEL FIREBIRD

BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)			Front Disc - Single, Drum Rear	
Self adjusting (std., opt., N.A.)			Inherent Feature of Design	
Special Valving	Type (proportion, delay, metering, other)		Hold-off Valve and Proportioning Valve	
Power brake make & type (remote, int., etc.)	Std. Delco Moraine, Integral Type, Vacuum Suspended-Trans Am	Opr. Delco Moraine, Integral Type, Vacuum Suspended-All Other		
Effective area (sq. in.) *			103.6	
Gross lining area (sq. in.) **			110.6	
Swept area (sq. in.) ***			350.9	
Front to Rear Effectiveness Relationship			62.6	
Drum	Diameter (nominal)	Front	--	
		Rear	9.5	
	Type and material		Cast Alloy Iron (a)	
Rotor	Outer working diameter		10.94	
	Inner working diameter		6.88	
	Working width		1.00	
	Material & type (vented/solid)		Cast Alloy Iron - Vented	
Wheel cyl. inder bore	Front		2.9375	
	Rear		.875	
Master Cylinder	Bore		1.000 Manual; 1.125 Power	
	Stroke		1.425	
Pedal arc ratio			5.7:1 (b) Manual; 3.6:1 (b) Power	
Line pressure at 100 lb. pedal load			800	
Shoe Clearance	Front		None	
	Rear		Diametral Clearance of 0.030	
Anti-skid device type (std., opt., N.A.)			Not Available	
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material		Molded Asbestos
		Size (length x width x thickness)	Prim. or out-board	5.40 x 1.93 x .41
			Second. or in-board	5.40 x 1.93 x .41
		Segments per shoe		One
		Rear Wheel	Material	
	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	

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

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

(a) Non-finned composite

(b) Ratio at 1.0" push rod travel

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (•)

MODEL FIREBIRD

STEERING

Manual (std., opt., NA)				Standard		
Power (std., opt., NA)				Optional (a)		
Adjustable steering wheel (tilt, swing, other)		Type and description (std., opt., NA)		Tilting Wheel, Adjusts Vertically - Six positions		
Wheel diameter		Manual		14.75 x 15.25 (a)		
		Power		14.75 x 15.25 (a)		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		39.8		
		Curb to curb (l. & r.)		36.5		
	Inside rear	Wall to wall (l. & r.)		22.0		
		Curb to curb (l. & r.)		20.3		
Manual	Gear	Type		Recirculating Ball Bearing		
		Make		Saginaw		
		Ratios	Gear	24:1		
			Overall	26.4:1		
	No. wheel turns (stop to stop)		4.6			
Power	Type (coaxial, linkage, etc.)		Coaxial			
	Make		Saginaw			
	Gear	Type		Recirculating Ball Bearing- Variable Ratio		
		Ratios	Gear	16.0 - 13.0:1 (b)		
			Overall	17.6 - 14.3:1 (c)		
	Pump driven by		Belt From Crankshaft			
	No. wheel turns (stop to stop)		2.5 - Lock to Lock			
Linkage	Type		Link Parallelogram			
	Location (front or rear of wheels, other)		Front of Wheels			
	Drag link (trans. or longit.)		Trans.Strg.Rod Connects Tie Rods,Pitman & Idler Arms			
	Tie rods (one or two)		Two			
	Inclination at camber (deg.)		8 1/4 to 9 1/4 @ .5° Camber			
Steering Axis	Bearings (type)	Upper	Ball Joint			
		Lower	Ball Joint			
		Thrust	Spring Load Taken By Lower Ball Joint			
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		1 1/2 Neg. to 1/2 Neg.			
	Camber (deg.)		1/4 Pos. to 1 1/4 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			

- (a) Power steering and 14.0 diameter wheel included with Trans Am option. The 14.0 diameter wheel is available as an option when power steering is also ordered.
- (b) Except Formula and Trans Am; 15.0 - 13.0 for Formula and Trans Am.
- (c) Except Formula and Trans Am; 16.5 - 14.3 for Formula and Trans Am.

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (a)
 MODEL STANDARD FIREBIRD; ESPRIT FORMULA TRANS AM; HANDLING PACKAGE OPTION

SUSPENSION – GENERAL

(See Supplement 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 & Rear Bumpers
Shock absorber front & rear	Type Direct Acting--Two-Way Make Delco Piston dia. 1.00
Other special features	

SUSPENSION – FRONT

Type and description	Ball joint independent front suspension with upper and lower control arms mounted on rubber bushings		
Spring	Type	Coil	
	Material	Alloy Steel	
	Size (coil design height & I.D.; bar length x dia.)	11.00 x 4.08	
	Spring rate (lb. per in.)	300	
	Rate at wheel (lb. per in.)	75	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	Alloy Steel, .940 Alloy Steel, 1.125 Alloy Steel, 1.250	

SUSPENSION – REAR

Type and description	Hotchkiss Drive		
Drive and torque taken through	Rear Springs		
Spring	Type	Multi-Leaf	
	Material	Alloy Steel	
	Size (length x width, coil design height & I.D.; bar length & dia.)	56.0 x 2.50	
	Spring rate (lb. per in.)	89 (a)	103 (b) 126
	Rate at wheel (lb. per in.)	89 (a)	103 (b) 126
	Mounting insulation type	Rubber Bushings	
	If leaf	No. of leaves 4 & 5	
	Shackle (comp. or tens.)	Compression	
Stabilizer	Type (link, linkless, frameless)	Linkless	
	Material	None	Alloy Steel, .620 Alloy Steel, .875
Track bar type	Not Used		

(a) Alternate springs used as required for body styles and optional equipment.

(b) Also Esprit with 400 engine

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (•)

MODEL

FIREBIRD

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	No Vent Windows
	Backlight or tailgate	Not Offered
Power seats (specify type as well as availability)		Not Offered
Reclining front seat back (R-L or both)		Not Offered
Front seat head restrainer (R-L or both)		Standard on both
Radios (specify type as well as availability)		Optional: AM, AM-FM, AM-FM Stereo - All Pushbutton Type
Rear seat speaker		Optional; Incl. With Stereo Radio or Tape Player
Power antenna		Not Offered--Windshield Antenna Standard
Clock		Optional; Also Incl. As Part of Optional Tachometer
Air conditioner (specify type and availability)		Optional: Reheat Cycle With Bi-Level Air Distribution System--Available on All
Speed warning device		Not Offered
Speed control device		Not Offered
Ignition lock lamp		Not Offered
Dome lamp		Standard
Glove compartment lamp		Optional
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional
Map lamp		Not Offered
Auto. trans. quad. lamp		Included With Automatic Transmission
Cornering light lamp		Not Offered
8-Track Stereo Tape Player		Available With All Radio Installations(a)
Cassette Tape Player		Available With All Radio Installations(a)
Rear Window Defogger		Optional--Blower Type or Electrically Heated Glass
Tachometer		Standard on Trans Am; Optional on Others With V8

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest	25.0
		Lowest	--
	Tail	Highest	25.3
		Lowest	--
	Sidemarker	Front	21.9
		Rear	20.9
Distance from C.L. of car to center of bulb	Headlamp	Inside	--
		Outside	25.7
	Tail	Inside	21.4
		Outside	26.1
	Directional	Front	25.4
		Rear	Same as Tail Lamp

* If single headlamps are used enter here:

(a) Cassette tape player and 8-track stereo tape player not available together.

AMA Specifications Form—Passenger Car

EXTERIOR CAR AND BODY DIMENSIONS KEY SHEET DIMENSION DEFINITIONS

WIDTH DIMENSIONS.

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.
- W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN is measured to outside of sheet metal with front doors in maximum hold-open position.
- W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN is measured in same manner as W120.

LENGTH DIMENSIONS.

- L30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

- H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT is the same point on the door as H132 dimension, with door closed.

- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.

- H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR is measured in same manner as H133.

- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

- H125 HEADLAMP CENTERLINE TO GROUND is measured vertically to the center of the upper lamp.

- H126 TAILLAMP CENTERLINE is measured vertically from ground to the centerline of the upper bulb.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND is a minimum clearance.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

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INTERIOR CAR AND BODY DIMENSIONS KEY SHEET DIMENSION DEFINITIONS

FRONT COMPARTMENT DIMENSIONS

- L31 H POINT TO VERTICAL ZERO LINE - FRONT is a horizontal dimension.
- H61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L34 MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.
- W3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

- L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

- V1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS

- W85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheel housings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.
- V2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201
1728

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