

1972

AMA SPECIFICATIONS FORM

. . . Passenger Car

MANUFACTURER Pontiac Motor Division General Motors Corporation	CAR NAME PONTIAC - LeMans	
MAILING ADDRESS Pontiac, Michigan 48053	MODEL YEAR 1972	ISSUED: 9-3-71 REVISED (•)

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AMA Specifications Form—Passenger Car

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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.

AMA Specifications Form—Passenger Car

MAKE OF CAR PONTIAC MODEL YEAR 1972 DATE ISSUED _____ REVISED (•) _____

BODY MODEL	Body Series, Type and Number. (Use mfr's. code for identification)				Number of Passengers (Indicate Front/Rear)
<u>Body Type</u>	<u>LeMans</u>	<u>LeMans Sport</u>	<u>GTO</u>	<u>Luxury</u>	<u>No. of Passengers (Fr/Rr)</u>
2-Door Coupe	2D27		W62 (Opt.)		3/3
2-Door Hardtop	2D37	2D37	W62 (Opt.)	2G37	3/3 (a)
Convertible		2D67			3/3 (a)
4-Door Sedan	2D69				3/3
4-Door Hardtop				2G39	3/3
Station Wagon 4-Door 2 Seat	2D36				3/3
Station Wagon 4-Door 3 Seat	2D46				3/3/2

(a) 2/3 with Bucket Seats

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

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.	Coupe 2D 2D27	LEMANS Coupe 2D-HT 2D37	Sedan 4D 2D69	GTO; W62 Option	SPORT Conv. 2D 2D67	LUXURY Coupe 2D-HT 2G37	LEMANS Sedan 4D-HT 2G39	Station Wagons 2-Seat 2D36 3-Seat 2D46	
WIDTH										
Track - Front	W101	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
Track - Rear	W102	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Maximum overall car width	W103	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
Body width at No. 2 pillar	W117	--	--	74.1	--	--	--	74.1	74.1	74.1
Max. front doors open	W120	150.2	150.2	132.0	150.2	150.2	150.2	132.0	132.0	132.0
Max. rear doors open	W121	--	--	134.6	--	--	--	134.6	134.6	134.6
LENGTH										
Body "O" to front of dash	L 30	0	0	0	0	0	0	0	0	0
Wheelbase	L101	112.0	112.0	116.0	112.0	112.0	112.0	116.0	116.0	116.0
Overall car length	L103	203.2	203.2	207.2	205.1	203.2	203.2	207.2	211.3	211.3
Overhang - front	L104	42.0	42.0	42.0	43.9	42.0	42.0	42.0	42.0	42.0
Overhang - rear	L105	49.3	49.3	49.3	49.3	49.3	49.3	49.3	53.4	53.4
Body upper structure length	L123	95.4	95.4	102.1	95.4	95.4	95.4	102.1	130.8	130.8
Body "O" line to C of rear wheel	L127	95.5	95.5	99.5	95.5	95.5	95.5	99.5	99.5	99.5
Body "O" line to w s cowl point	L130	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
HEIGHT										
Passenger Distribution (front & rear)		2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3
Trunk Cargo load (lbs.)		0	0	0	0	0	0	0	0	0
Overall height	H101	52.0	52.0	52.6	52.0	52.3	52.0	52.6	54.2	54.2
Cowl height	H114	37.4	37.4	37.4	37.7	37.4	37.4	37.4	38.2	38.5
Deck height	H138	38.1	38.1	37.6	37.7	37.3	38.1	37.4	38.9	38.9
Rocker panel - front	To ground	7.8	7.8	7.8	7.8	7.8	7.8	7.8	9.0	9.0
	From front wheel C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Bottom of front door to ground	H133	9.6	9.6	9.8	9.9	9.6	9.6	9.8	11.2	11.5
Rocker panel - rear	To ground	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.5	8.5
	From rear wheel C	19.0	19.0	23.0	19.0	19.0	19.0	23.0	23.0	23.0
Bottom of rear door to ground	H135	--	--	9.3	--	--	--	9.3	11.0	11.3
Windshield slope angle	H122	53°	53°	53°	53°	53°	53°	53°	53°	53°
GROUND CLEARANCE										
Bumper to ground - front	H102	14.9	14.9	14.8	15.8	14.9	14.9	14.8	15.0	15.3
Bumper to ground - rear	H104	14.9	14.9	14.8	14.0	13.6	13.6	13.7	10.7	11.0
Angle of approach	H106	19.6	19.6	19.4	19.8	19.6	19.6	19.4	19.7	20.0
Angle of departure	H107	14.6	14.6	14.8	15.2	14.6	14.6	14.8	12.6	12.6
Ramp breakover angle	H147	10.7	10.7	10.3	11.4	10.7	10.7	10.3	12.6	12.6
Rear axle differential to ground	H153	7.5	7.5	7.5	7.7	7.5	7.5	7.5	7.7	7.7
Min. running clearance (Specify)	H156	4.3	4.3	4.3	4.7	4.3	4.3	4.3	4.7	5.0

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

See Pages 27, 29 for SAE Dimension Definitions

MODEL	PONTIAC	SAE Ref. No.	Coupe 2D 2D27	LEMANS Coupe 2D-HT 2D37	Sedan 4D 2D69	SPORT Conv. 2D 2G67	LUXURY Coupe 2D-HT 2G37		Sedan 4D-HT 2G39	STATION WAGONS 2-Seat 2D36		3-Seat 2D46
FRONT COMPARTMENT												
H Point to body "O" line	L31	42.9	42.9	42.9	42.8	42.8	43.0	42.9	42.9			
Effective head room	H61	37.9	37.9	38.5	38.6	37.7	38.1	38.4	38.4			
Max. eff. leg room - accelerator	L34	42.4	42.4	42.4	42.4	42.4	42.5	42.6	42.6			
H Point to Heel point	H30	7.9	7.9	7.9	8.0	8.0	8.3	7.7	7.7			
H Point travel	L17	4.7	4.7	4.7	4.8	4.8	4.8	0.8	0.8			
Shoulder room	W 3	58.1	58.1	58.2	58.1	58.1	58.1	58.3	58.3			
Hip room	W 5	59.6	59.6	59.5	58.9	58.9	58.9	59.7	59.7			
Upper body opening to ground	H50	43.1	43.6	43.9	43.7	43.6	44.4	43.9	43.9			
REAR COMPARTMENT												
H Point couple distance	L50	30.6	30.6	32.8	30.7	30.7	32.8	32.8	32.8			
Effective head room	H63	36.3	36.3	37.1	37.0	36.3	37.1	38.3	38.3			
Min. effective leg room	L51	32.3	32.3	34.9	31.8	31.8	34.9	34.6	34.6			
H Point to Heel point	H31	10.1	10.1	10.7	10.1	10.1	10.7	10.6	10.6			
Min. knee room	L48	0.6	0.6	2.2	1.5	1.5	2.2	2.3	2.3			
Rear Compartment room	L 3	23.7	23.7	25.8	24.0	24.0	25.8	26.1	26.1			
Shoulder room	W 4	57.0	57.0	57.4	47.8	57.0	57.4	57.4	57.4			
Hip room	W 6	58.1	52.9	59.1	50.5	52.9	58.6	59.4	59.4			
Upper body opening to ground	H51	--	--	43.4	--	--	43.9	43.7	43.7			
LUGGAGE COMPARTMENT												
Usable luggage capacity (cu. ft.)	V 1	14.6	14.6	14.6	10.0	14.6	14.6	--	--			
Liftover height	H195	23.2	23.2	23.2	23.2	23.2	23.2	--	--			
Position of spare tire storage		Flat (a)	Flat (a)	Flat (a)	Flat (a)	Flat (a)	Flat (a)	Vertical				
Method of holding lid open		Torsion Bar								—		
STATION WAGON – THIRD SEAT												
Shoulder Room	W85									--	57.2	
Hip room	W86									--	46.7	
Effective leg room	L86									--	30.4	
Effective head room	H86									--	35.8	
Seat facing direction										--	Rear	
STATION WAGON – CARGO SPACE												
Cargo length at floor - front seat	L202									90.9	90.9	
Cargo length at belt - front seat	L204									79.9	79.9	
Cargo width - Wheelhouse	W201									44.5	44.5	
Opening width at belt	W204									49.6	49.6	
Maximum cargo height	H201									31.5	31.3	
Rear opening height	H202									28.6	28.4	
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2									83.6	83.6	

(a) Except optional space saver which is inclined against kickup

AMA Specifications Form—Passenger Car

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

LEMANS

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
STANDARD ENGINES									
2D	250	1-bbl.	8.5			110 @ 3800	185 @ 1600	Manual (3-Sp.) Automatic (M35) Turbo Hydra-matic (M38)	3.23 (a) 3.08 (b), 3.23 (b) 3.08 (b), 3.23 (a) 2.78 (b)
2G	350	2-bbl.	8.0			160 @ 4400(i)	270 @ 2000(i)	Manual (3-Sp.) (d) (f) Automatic (M35) (g) Automatic (M35) (h) Turbo Hydra-matic (M38) Turbo Hydra-matic (M38) (g) (h)	3.23 (a), 3.08 2.78 (a), 3.08, 3.55 3.08 (a), 3.55 2.56 (b), 2.78 (c), 3.08, 3.23 2.78 (a), 3.08, 3.23
OPTIONAL ENGINES									
350 2-bbl. (L30)									
2D	350	2-bbl.	8.0			160 @ 4400(i)	270 @ 2000(i)	Manual (3-Sp.) (d) (f) Automatic (M35) (g) Automatic (M35) (h) Turbo Hydra-matic (M38) Turbo Hydra-matic (M38) (g) (h)	3.23 (a), 3.08 2.78 (a), 3.08, 3.55 3.08 (a), 3.55 2.56 (b), 2.78 (c), 3.08, 3.23 2.78 (a), 3.08, 3.23
400 2-bbl. (L65)									
2D & 2G	400	2-bbl.	8.2			175 @ 4000(i)	310 @ 2400(i)	Turbo Hydra-matic (M40)	2.78 (a), 3.08
400 4-bbl. (L78)									
2D & 2G *	400	4-bbl.	8.2			200 @ 4000(i)	295 @ 2800(i)	Manual (3-Sp.) (d) (g) Manual (4-Sp. Close Ratio) (M22) (g) Turbo Hydra-matic (M40) Except GTO Turbo Hydra-matic (M40) GTO	3.55 (b), 3.23 (a), 3.55 3.55 (b) 3.23 (a), 3.08, 3.55 3.55 (b), 3.23 (c), 3.08
455 4-bbl. (L75)									
2D & 2G	455	4-bbl.	8.2			250 @ 3600	375 @ 2400	Turbo Hydra-matic (M40)	3.31 (b), 3.07(c), 3.07
455 4-bbl. (LS5)									
2D (2-door models)	455	4-bbl.	8.4			300 @ 4000	415 @ 3200	Manual (4-Sp. Close Ratio) (M22) Turbo Hydra-matic (M40)	3.55 (b), 3.31(c), 3.31 3.55 (b), 3.07(c), 3.07

* Also standard on W62 (GTO) option

(a) Both air conditioning and non-air conditioning

(b) Non-air conditioning only

(c) With air conditioning only

(d) Wide ratio 4-speed manual optional

(e) Close ratio 4-speed manual optional

(f) 3-speed heavy duty optional

(g) Except station wagon (all ratios)

(h) Station wagon (all ratios)

(i) Single exhaust

(j) Dual exhaust

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (e)MODEL LEMANS
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 x 3.525 3.8774 x 3.535	3.8750 x 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)
(front to rear)	R. Bank	--
Firing order	1-5-3-6-2-4	1-3-5-7
Compress. ratio (nominal)	8.5:1	2-4-6-8
Cylinder Head Combustion Chamber Volume (cc)	93.88	1-8-4-3-6-5-7-2
Cylinder Head Material	Alloy Cast Iron	8.0:1
Cylinder Block Material	Alloy Cast Iron	
Cyl. Sleeve-Wet, dry, none	None	
Number of	Front	2
mtg. points	Rear	1
Engine installation angle	4.6°	4.7°
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower } 2.5}$	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
	Skirt Top	.0005 - .0011 (a)
	Bottom	--
Ring groove diameter	No. 1 ring	.0025 - .0033 (b)
	No. 2 ring	.0020 - .0038
	No. 3 ring	3.434 - 3.444
	No. 4 ring	3.437 - 3.427
		3.434 - 3.444
		3.437 - 3.427
		3.446 - 3.456
		3.456 - 3.446
		None

(a) Measured 2.44 from top of piston

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

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (*)MODEL LEMANS
400 Cu. In. Engine 455 Cu. In. Engine

ENGINE - GENERAL

Type, no. cyls., valve arr.	90° V, 8, In-Head	
Bore and stroke (nominal)	4.1200 3.746	4.1510 4.206
	4.1224 x 3.754	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	
Compres. ratio (nominal)	8.2	8.2 (a)
Cylinder Head Combustion Chamber Volume (cc)	96.36 - 2 Bbl.	112.64 - L75 Engine
	95.61 - 4 Bbl.	111.89 - LS5 Engine
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	4.7°	
Taxable Dia ² xNo. Cyl. horsepower 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 Plated	
Weight (piston only) oz.	22.070 - 22.250	20.515 - 20.695
Clearance (limits)	Top land	.017 - .021
	Skirt Top	.0025 - .0033 (b)
	Bottom	.0020 - .0038
Ring groove diameter	No. 1 ring	3.677 - 3.667
	No. 2 ring	3.677 - 3.667
	No. 3 ring	3.680 - 3.670
	No. 4 ring	None

(a) Except 455 HO which is 8.4:1

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

(c) Pistons selected for clearance at 1.08 below top of piston

AMA Specifications Form—Passenger Car

MAKE OF CAR	Pontiac	MODEL YEAR	1972	DATE ISSUED	9-3-71	REVISED (a)
		LEMANS				
MODEL	250 L6 Engine		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	
Compres- sion	Description - material, coating, etc.	No. 1 (b) No. 2 Taper Face - Lubrite	Cast Iron Reverse Twist (a) Moly Channel Barrel Face Taper Face - Tin Plated
	Width	No. 1 .0630, No. 2 .0628	.0778
	Gap	.015	.019
	Oil	Multi-Piece (2 Rails and 1 Spacer Expander) Rails: Steel with Chrome Plated O.D. Expander: Stainless Steel	
Oil	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	None	
	In rod or piston 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

AMA Specifications Form—Passenger Car

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

LEMANS

MODEL 400 Cu. In. Engine 455 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 - No. 1 Barrel Face Moly Channel, No. 2 Taper Face Tin Plated (a)
	Width	.0778(b)
	Gap	No. 1 - .019 (c), 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 (d) (e)
	Overall length	.88
	Clearance (limits)	.0005 - .0026 .0010 - .0031
	End play	.012 - .017 (Total for Two)

- (a) Optional 455 cu. in. engine uses taper face moly channel rings in No. 2 location
 (b) No. 2 .0623 on 455 cu. in. engine
 (c) No. 1 .021 on 455 cu. in. engine
 (d) Steel backed removable precision
 (e) Material is Moraine 100-A on optional 400 2-bbl. engine.

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

MODEL 250 L6 Engine 350 and 400 V8 Engines LEMANS

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	.0002 - .0017
	Journal dia. and bearing overall length	No. 1	2.30 x .752	3.00 x .94
		No. 2	2.30 x .752	3.00 x .94
		No. 3	2.30 x .752	3.00 x .94
		No. 4	2.30 x .752	3.00 x 1.13
		No. 5	2.30 x .752	3.00 x 1.59
		No. 6	2.30 x .752	None
		No. 7	2.30 x .760	None
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		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:

#4 Lower of 350 & 400 2-Bbl. Engines.

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

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MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (*)MODEL LEMANS
455 V8 Engines

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		2 (a)	
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 location of HO engine

All lower locations on all engines.

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

(a) Except locations 2, 3, and 4 on HO use 4 bolts each.

AMA Specifications Form--Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1971 DATE ISSUED 9-9-70 REVISED (e)

MODEL LEMANS
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 (BRC)	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.)	64 @ 1.27	
	Inner spring press. & length	Valve closed (lb. in.)	180 @ 1.27	
		Valve open (lb. in.)	192 @ 1.27	
	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.)	64 @ 1.27	
Inner spring press. & length		Valve closed (lb. in.)	180 @ 1.27	
		Valve open (lb. in.)	192 @ 1.27	
Inner spring press. & length		Valve closed (lb. in.)	None	
		Valve open (lb. in.)	None	

AMA Specifications Form—Passenger Car

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

MODEL LEMANS
W/Turbo Hydra-matic Trans. | Exc. Turbo Hydra-matic Trans.
 ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA) StandardValve rotator, type (intake, exhaust) NoneRocker ratio 1.5:1

Operating tappet clearance (indicate hot or cold)

Intake	<u>Zero</u>
Exhaust	<u>Zero</u>

Timing (based on top of ramp points)	Intake	Opens (°BTC)	<u>30</u>	<u>26</u>
		Closes (°ABC)	<u>63</u>	<u>63</u>
		Duration - deg.	<u>273</u>	<u>269</u>
	Exhaust	Opens (°BBC)	<u>77</u>	<u>72</u>
		Closes (°ATC)	<u>25</u>	<u>25</u>
		Duration - deg.	<u>282</u>	<u>277</u>
Valve opening overlap		<u>55</u>	<u>51</u>	

Intake	Material		<u>GM-8440 w/Alum. Treatment on Face & Fl. Cr. Plated Stem</u>	
	Overall length		<u>4.981</u>	
	Actual overall head dia.		<u>1.963 - 1.957</u>	
	Angle of seat & face		<u>45° Seat - 44° Face</u>	
	Seat insert material		<u>Not Used</u>	
	Stem diameter		<u>.3419 - .3412</u>	
	Stem to guide clearance		<u>.0016 - .0033</u>	
	Lift (± zero lash)		<u>.410 ± .011</u>	<u>.377 ± .011</u>
	Outer spring press. & length	Valve closed (lb. in.)	<u>54.3 @ 1.5898</u>	<u>54.3 @ 1.5898</u>
		Valve open (lb. in.)	<u>68.3 @ 1.1793</u>	<u>68.3 @ 1.2125</u>
	Inner spring press. & length	Valve closed (lb. in.)	<u>125.1 @ 1.5498</u>	<u>119.4 @ 1.5498</u>
		Valve open (lb. in.)	<u>139.1 @ 1.1393</u>	<u>133.4 @ 1.1725</u>
			<u>102.9</u>	<u>97.7</u>

Exhaust	Material		<u>21-2 Steel w/Alum. Treatment on Face & Fl. Cr. Plated Stem</u>	
	Overall length		<u>4.8865</u>	
	Actual overall head dia.		<u>1.773 - 1.767</u>	
	Angle of seat & face		<u>45° Seat - 44° Face</u>	
	Seat insert material		<u>Not Used - Seat is Heat Treated</u>	
	Stem diameter		<u>.3414 - .3407</u>	
	Stem to guide clearance		<u>.0021 - .0038</u>	
	Lift (± zero lash)		<u>.414 ± .011</u>	<u>.413 ± .011</u>
	Outer spring press. & length	Valve closed (lb. in.)	<u>54.3 @ 1.5898</u>	<u>54.3 @ 1.5898</u>
		Valve open (lb. in.)	<u>68.3 @ 1.1748</u>	<u>68.3 @ 1.1767</u>
	Inner spring press. & length	Valve closed (lb. in.)	<u>125.2 @ 1.5498</u>	<u>125.5 @ 1.5498</u>
		Valve open (lb. in.)	<u>139.2 @ 1.1348</u>	<u>139.5 @ 1.1367</u>
			<u>28.4</u>	<u>28.4</u>
			<u>38.4</u>	<u>38.4</u>

AMA Specifications Form—Passenger Car

MAKE OF CAR		Pontiac		MODEL YEAR		1972		DATE ISSUED		9-3-71		REVISED (•)	
MODEL		LEMANS											
		400 Cu. In. Engines											
ENGINE - VALVE SYSTEM		OPT. 4-BB1. Auto. Trans.			OPT. 2-BB1. 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		Zero									
		Exhaust		Zero									
Timing (based on top of ramp points)	Intake	Opens (BTC)		23°			26°			23°			
		Closes (ABC)		70°			63°			70°			
		Duration - deg.		273°			269°			273°			
	Exhaust	Opens (BBC)		78°			72°			78°			
		Closes (ATC)		31°			25°			31°			
		Duration - deg.		289°			277°			289°			
	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.)	128.8 142.8 @ 1.1578			119.3 133.3 @ 1.2130			123.6 137.6 @ 1.1878				
	Inner spring press. & length	Valve closed (lb. in.)	31.8 41.8 @ 1.5283			28.3 38.3 @ 1.5503			50.0 62.0 @ 1.5283				
		Valve open (lb. in.)	96.3 106.3 @ 1.1178			87.6 97.6 @ 1.1730			115.8 127.8 @ 1.1178				
	Exhaust	Material		21-2 Steel w/Alum. Treatment on Face & Fl. Cr. Plated Stem									
		Overall length		4.8865									
		Actual overall head dia.		1.663 - 1.657									
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.)	129.4 143.4 @ 1.1544			125.5 139.5 @ 1.1772			124.2 138.2 @ 1.1844				
Inner spring press. & length	Valve closed (lb. in.)	31.8 41.8 @ 1.5283			28.3 38.3 @ 1.5503			50.0 62.0 @ 1.5283					
	Valve open (lb. in.)	96.8 106.8 @ 1.1144			93.2 103.2 @ 1.1372			116.3 128.3 @ 1.1144					

AMA Specifications Form—Passenger Car

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

MODEL		455 HO		LEMANS		455 4-bbl.		
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	Zero						
	Exhaust	Zero						
Timing (based on top of ramp points)	Intake	Opens (BTC)	31°				23°	
		Closes (ABC)	77°				70°	
		Duration - deg.	288°				273°	
	Exhaust	Opens (B/C)	90°				78°	
		Closes (ATC)	32°				31°	
		Duration - deg.	302°				289°	
Valve opening overlap		63°				54°		
Intake	Material		GM-8440 w/Alum. Treatment on Face & Fl. Cr. Plated Stem					
	Overall length		4.959				4.880	
	Actual overall head dia.				2.113 - 2.107			
	Angle of seat & face				30° Seat - 29° Face			
	Seat insert material				Not Used			
	Stem diameter				.3419 - .3412			
	Stem to guide clearance				.0016 - .0033			
	Lift (zero lash)		.410 + .011				.410 + .011	
	Outer spring press. & length	Valve closed (lb. in.)	59.3 @ 1.5608				57.8 @ 1.5693	
		Valve open (lb. in.)	73.3 @ 1.1462				71.8 @ 1.1588	
	Inner spring press. & length	Valve closed (lb. in.)	130.8 @ 1.5208				128.6 @ 1.5293	
		Valve open (lb. in.)	144.8 @ 1.1062				142.6 @ 1.1188	
	Exhaust	Material		21-2 Steel w/Alum. Treatment on Face & Fl. Cr. Plated Stem				
		Overall length		4.8645				4.7855
		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				.3419 - .3412				
Stem to guide clearance				.0021 - .0038				
Lift (zero lash)		.413 + .011				.414 + .011		
Outer spring press. & length		Valve closed (lb. in.)	59.3 @ 1.5608				57.8 @ 1.5693	
		Valve open (lb. in.)	73.3 @ 1.1469				71.8 @ 1.1554	
Inner spring press. & length		Valve closed (lb. in.)	130.7 @ 1.5208				129.2 @ 1.5293	
		Valve open (lb. in.)	144.7 @ 1.1069				143.2 @ 1.1154	

AMA Specifications Form—Passenger Car

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

MODEL LEMANS 250 L6 Engine 350 V8 Engine 400 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 c/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		One - Reverse Flow
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .076	2.00 x .076	2.00 x .076
	Main	2.00 x .057-.071	2.25 x .076	2.25 x .076
Tail pipe dia. (O.D. & wall thickness)		1.88 x .062-.075	2.00 x .048	2.00 x .048

(a) 55-60 above 2600 on 4-bbl. 400 V8

(b) Dual exhaust system optional

AMA Specifications Form—Passenger Car

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

MODEL LEMANS
455 Engines

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
Oil pump type		Spur Gear
Normal oil pressure (lb. / engine rpm)		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 c/case, less filter-refill (qt.)		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

		Station Wagons	Non-Wagons
Type (single, single with cross-over, dual, other)		Single	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		One - Reverse Flow	Two - Reverse Flow
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .076	Not Used
	Main	2.25 x .076	2.00 x .084 (b)
Tail pipe dia. (O.D. & wall thickness)		2.00 x .048	2.25 x .048

(a) 55-60 above 2600 on 455 HO

(b) Consists of two .042 laminated walls

AMA Specifications Form—Passenger Car

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

MODEL 250 L6 Engine LEMANS 350 V8 Engine 400 & 455 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.)	20 (b)			
	Filler location	Center Rear			
Fuel Pump	Type (elec. or mech.)	Mechanical			
	Locations	Right Frt. of Eng.	Left Frt. of Engine		
	Pressure range	4.0-5.0 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			
	Intake manifold heat control (exhaust or water)	Exhaust			
Carburetor	Air cleaner type	Standard	Oil Wetted Paper Element		
		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	Barrel Size
			Make	Model		
2D – Standard	250	Manual	Rochester	7041017	1, 1-bbl.	1.69
		Automatic	Rochester	7041014	1, 1-bbl.	1.69
2D – Optional 2G – Standard	350	Manual	Carter	488062	1, 2-bbl.	1.43
		Automatic	Rochester	7042062	1, 2-bbl.	1.69
2D, 2G – Optional	400	Automatic	Rochester	7042060	1, 2-bbl.	1.69
2D, 2G – Optional	400	Manual	Rochester	7042263	1, 4-bbl.	P. 1.38
		Automatic	Rochester	7042264	1, 4-bbl.	S. 2.25
2D, 2G – Optional	455	Automatic	Rochester	7042262	1, 4-bbl.	P. 1.38
2D – Optional	455HO	Manual	Rochester	7042273	1, 4-bbl.	P. 1.38
		Automatic	Rochester	7042270	1, 4-bbl.	S. 2.25

- (a) Carburetor inlet filter is pleated paper in 4-bbl. and 1-bbl. Rochester carburetors
 (b) Except station wagon, 23
 (c) 500 on 4-bbl.

AMA Specifications Form—Passenger Car

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

MODEL 250 L6 Engine LEMANS 350, 400 & 455 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
Water pump	Type (centrifugal, other)	Centrifugal
	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.)	13 20.2 (350), 18.6 (400), 17.9 (455)
	Without heater (qt.)	Heater Standard Equipment
	Opt. equipment-specify (qt.)	12.4 With A/C 20.9 (350), 20.8 (400), 18.9 (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)	None
		Inside diameter	None

Fan	Number of blades & spacing	4--65° & 115° (b)	4--76° & 104° (a) (b)
	Diameter	15.62	19.0
	Ratio-fan to crankshaft rev.	1.15:1 (1.25:1 A/C)	.91:1 (1.25:1 with A/C)
	Fan cutout type	Fluid Clutch - Thermostatic Control (with A/C)	
	Bearing type	See Water Pump	

* Drive belts (indicate belt used by letter)	Fan	A	A, B	C, D	E, D	G	H, I	G	H, K	L, K
	Generator or alternator	A	A, B	C	E, F	G	H	G	H	L
	Water Pump	A	A, B	C, D	E, D	G	H, I	G	H, K	L, K
	Power Steering		B		E		I		K	K
	Air Conditioning			D	D			J	J	J
		L6 Engine				V-8 Engine				80 Amp.

* 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)	52.25	39.0	50.0	37.75	53.75	49.5	31.0	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 standard on GTO option

(b) Fan capacity increases on A/C cars

AMA Specifications Form—Passenger Car

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

MODEL _____ LEMANS

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				
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)	See Engine-Fuel System
Thermal expansion volume (cu. ft.)			.401 exc. Station Wagon; .241 Station Wagon	
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 (a)

MODEL		250 L6	350 V8	400 V8	455 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 M-45AmpHr.	2SM-53Amp.Hr.	2SM-61AmpHr.	2SM-62Amp.Hr.
	Location	Underhood R.H. Side	Underhood - L.H. Side		
	Terminal grounded	Negative			
Generator or Alternator	Make	Delco Remy			
	Model	1100927 (b)(d)	1100927 (b)(c)		
	Type and rating	37 Amp.			
	Output at engine idle (neutral)	5-10 Amps.			
	Ratio—Gen. to Cr/s rev.	2.80:1 (3.02:1 with A/C)			
Regulator	Make				
	Model				
	Type				
	Cutout relay	Closing voltage generator rpm			
		Reverse current to open			
	Regu- lated	Voltage			
		Current			
	Voltage test conditions	Temperature			
		Load			
		Other			

REGULAR INTEGRAL WITH ALTERNATOR - NO EXTERNAL
REGULATOR USED

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make	Delco Remy		
	Model	1108439	1108434	1108435
	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.		
Motor Drive	Engagement type	Sliding Gear - Overrunning Clutch		
	Pinion meshes (front, rear)		Rear	Front
	Number of teeth	Pinion	9	
		Flywheel		
	Flywheel tooth face width	Manual	.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.) HD with A/C and Rear Window Defogger and
 (d) 1100550 with Power Steering

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MODEL LEMANS

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		28-32
Distributor	Manual	1110489	1112140	--	1112121
	Automatic	1110489	1112118	1112119	1112121
Timing	Manual	4° BTDC at Idle	8° BTDC at Idle		
	Automatic	4° BTDC at Idle	10° BTDC at Idle		

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	6 - 8	20
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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LEMANS

MODEL

455 V8 4-bbl.

455 V8 HO

ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR

Breaker gap (in.)		.016	No Breaker (a)
Cam angle (deg.)		28 - 32	No Breaker
Brkr. arm tension (oz.)		28 - 32	No Breaker
Distributor	Manual	--	1112133
	Automatic	1112145	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. at In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1112145	1400	8° @ 2000	20° @ 4600	8 - 10	20
1112133	1150	11° @ 2000	28° @ 4600	6 - 8	20

(a) Unitized transistorized ignition system

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MODEL 250 L6 350 V8 400 V8 455 V8

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.	Standard			
	Transistorized – Std., Opt., N.A.	N.A.	N.A.	N.A.	Opt. (d)
	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	R 45-T	R 46-TS	R 46-TS (a)	R 45-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, resistor spark plugs (5000 OHMS), distributed resistance secondary cables, hood ground clip and 0.3 MFD ignition coil by-pass capacitor.

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Mechanical
	Trip odometer (std. opt., N.A.)	N.A.
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-Sp. Electric, Concealed Park, L.H. Arm Articulated
	Type – Optional	See (b)
Windshield washer	Type – Standard	Electric – Pump Is Integral With Wiper Motor
	Type – Optional	None
Horn	Type	Vibrator
	Number used	1 Std. (c)
	Amp draw (each)	4.3 – 5.9 @ 12.5V
Other		Optional instrument cluster with temperature and oil pressure telltales replaced with gages; clock or tachometer also included.

- (a) 2-bbl. engines; R 45-TS for 4-bbl.
 (b) Standard except 2D27; option on 2D27. Standard 2D27 is 2-speed electric non-depressed park, non-articulated arms.
 (c) 2 standard on 2G
 (d) Unitized transistorized ignition system standard on 455 V8 HO.

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MODEL 250 L6 LEMANS 350 V8 400 V8 455 V8

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 & Metal to Metal Friction			

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3-Sp. 250 L6	3-Sp. 350 V8	3-Sp. 400 V8	4-Sp. 350 V8	4-Sp. Wide Ratio	4-Sp. Close Ratio
Transmission ratios	In first	2.85:1	2.54:1	2.42:1	2.54:1	2.52:1	2.20:1
	In second	1.68:1	1.50:1	1.58:1	1.80:1	1.88:1	1.64:1
	In third	1.00:1	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	2.41:1	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	Summer					
	number	Winter					
		Extreme cold					
		80 or 90					

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MODEL LEMANS
250 L6 & 350 V8

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Automatic					Turbo Hydra-matic					
Type describe		2-Speed Torque Converter					3-Spd. Torque Converter					
Selector location		Steering Column (a)										
List gear ratios Selector Pattern and indicate which are used in each selector position	250	P	R	N	D	L	P	R	N	D	S	L
	L6		1.82		1.82	1.82		1.92		2.52	2.52	2.52
					1.00					1.52	1.52	
	350		1.76		1.76	1.76				1.00		
	V8				1.00							
	250 L6				350 V8		250 L6			350 V8		
Max. upshift speed-drive range (b)		56			76		70			86		
Max. kickdown speed-drive range (b)		50			70		66			82		
Torque converter	Number of elements	Three										
	Max. ratio at stall	2.15:1			2.00:1			2.30:1			2.50:1	
	Type of cooling (air, liquid)	Liquid										
	Nominal diameter	11.00			11.75							
Lubricant	Capacity-refill (pt.)	6										
	Type recommended	GM Dexron R Automatic Transmission Fluid										
Special transmission features												

DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.25 x 60.0 x .065 (116 W.B.)
		3.00 x 56.0 x .065 (112 W.B.)
	Manual 4-speed trans.	3.25 x 60.0 x .065 (116 W.B.)
		3.00 x 56.0 x .065 (112 W.B.)
	Overdrive transmission	Not Offered
	Automatic transmission	3.25 x 58.84 x .065 (116 W.B.) 3.00 x 54.84 x .065 (112 W.B.)

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

(Continued)

(a) On optional console of models with bucket seats.

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

AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED (a) _____MODEL 400 2-bbl. LEMANS 400 4-bbl.

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Turbo Hydra-Matic					
Type describe	3-Speed Torque Converter					
Selector location	Steering Column (a)					
List gear ratios Selector Pattern and indicate which are used in each selector position	<u>P</u>	<u>R</u> 2.08	<u>N</u>	<u>D</u> 2.48 1.48 1.00	<u>S</u> 2.48 1.48	<u>L</u>
Max. upshift speed—drive range (b)	82				86	
Max. kickdown speed—drive range (b)	76				80	
Torque converter	Number of elements	Three				
	Max. ratio at stall	2.0:1				
	Type of cooling (air, liquid)	Liquid				
	Nominal diameter	12.5				
Lubricant	Capacity—refill (pt.)	7.5				
	Type recommended	GM Dexron R Automatic Transmission Fluid				
Special transmission features						

DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.25 x 60.0 x .065 (116 W.B.) 3.00 x 56.0 x .065 (112 W.B.)
	Manual 4-speed trans.	3.25 x 58.84 x .065 (116 W.B.) 3.00 x 54.84 x .065 (112 W.B.)
	Overdrive transmission	Not Offered
	Automatic transmission	3.25 x 58.84 x .065 (116 W.B.) 3.00 x 54.84 x .065 (112 W.B.)

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

(Continued)

(a) On optional console of cars with bucket seats

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

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

MODEL LEMANS
455 V8 Engine

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Turbo Hydra-Matic					
Type describe	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	S	L
		2.08		2.48	2.48	2.48
				1.48	1.48	
				1.00		
Max. upshift speed—drive range (b)	86					
Max. kickdown speed—drive range (b)	80					
Torque converter	Number of elements	Three				
	Max. ratio at stall	2.3:1				
	Type of cooling (air, liquid)	Liquid				
	Nominal diameter	12.5				
Lubricant	Capacity—refill (pt.)	7.5				
	Type recommended	GM Dexron R Automatic Transmission Fluid				
Special transmission features						

DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	Not Offered
	Manual 4-speed trans.	3.00 x 54.84 x .065 (112 W.B.) 3.25 x 58.84 x .065 (116 W.B.)
	Overdrive transmission	Not Offered
	Automatic transmission	3.00 x 54.84 x .065 (112 W.B.) 3.25 x 58.84 x .065 (116 W.B.)

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

(Continued)

- (a) On optional console of cars with bucket seats
(b) Based on non-air conditioning car with standard axle for engine indicated.

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LEMANS

MODEL

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 on 56.00 & 60.00 inch long prop shafts 32 on 54.84 & 58.84 inch long prop shafts
	Spline O.D.	1.175 - 27 Tooth; 1.375 - 32 Tooth
Universal joints	Make and Mfg. No.	Saginaw - Size 44 (Regular)
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	U-Bolt
	Bearing	Type (plain, anti-friction)
		Lubric. (fitting, prepack)
		Anti-Friction
		Prepacked
Drive taken through (torque tube or arms, springs)		Control Arms
Torque taken through (torque tube or arms, springs)		Control Arms

DRIVE UNITS — AXLE

Type (front, rear)		Rear
Description		Semi-Floating Hypoid
Limited Slip differential, type		Spring Loaded Clutch (Optional)
Drive Pinion Offset		1.50
No. of differential pinions		2(e)
Pinion adjustment (shim, other)		Shim
Pinion bearing adj. (shim, other)		Collapsible Spacer
Wheel bearing type		Roller Bearing
Lubricant	Capacity (pt.)	3 (a)
	Type recommended	MIL-L-2105 B (b)
	SAE viscosity number	Summer
		Winter
		Extreme cold
		80 or 90
		80 or 90
		80 or 90

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		(c)		(d)	
		3.07:1	3.31:1	3.55:1	3.55:1
No. of teeth	Pinion	14	13	11	11
	Ring gear	43	43	39	39
Ring Gear O.D.		8.875		8.125	

(a) Capacity increases to 5 pints with 8.875 diameter ring gear

(b) Special lubricant required with limited slip differential

(c) With L75 and LS5 engines only

(d) Except L75 and LS5 engines only

(e) 3.55 ratio limited slip axle with 350 and 400 engines has 4 pinion gears

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AMA Specifications Form—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1972 DATE ISSUED 9-3-71 REVISED ^(*)
 MODEL LEMANS 6 Cyl. Except Wagons and Convertible (a) (b) Wagons

DRIVE UNITS — TIRES AND WHEELS (STANDARD)

TIRES	Size, load range, ply		E78-14B	F78-14B	G78-14B	H78-14B
	Type (bias, radial, etc.)		Bias-Belted			
	Normal max. load inflation pressure (cold)	Front	26			24
		Rear	28			32
	Rev. mile @ 45 mph		799	787	772	750
WHEELS	Type & material		Disc - Steel			
	Rim (size & flange type)		14 x 5JJ	14 x 6JJ		
	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	G78-14B	
Type (bias, radial, etc.)		Bias-Belted		
Normal max. load inflation pressure (cold)	Front	26		
	Rear	28		
Rev. mile - 45 mph		787	772	
Wheel type & material		Disc - Steel		
Rim (size & flange type)		14 x 6JJ; Optional Rally II is 14 x 7JJ		

DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)

Size, load range, ply		G78-14B	G70-14B	
Type (bias, radial, etc.)		Bias-Belted		
Normal max. load inflation pressure (cold)	Front	26		
	Rear	28		
Rev. mile - 45 mph		772	777	
Wheel type & material		Disc - Steel		
Rim (size & flange type)		14 x 6JJ; Opt. Honeycomb is 14 x 7JJ		

BRAKES — PARKING

Type of control		Foot Lever Application - Hand Pull Release
Location of control		Below Instr. 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

- (a) 6-cylinder convertible; V8 except wagons, GTO¹ Handling Package², 455 engine, without air conditioning; same V8 models (except Luxury LeMans 4-door) with air conditioning but without Endura Styling Option.
- (b) V8 Luxury LeMans 4-door with air conditioning; all with 455 engine except wagons, GTO¹, Handling Package²; V8 LeMans and LeMans Sport with air conditioning and Endura Styling Option, except wagons, GTO¹, Handling Package².

¹ G70-14 Standard - Inflation 24-28, wheel revs. 773; G60-15 optional

² G60-15 - Inflation 24-28, wheel revs. 779; wheels 15 x 7JJ

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MODEL LEMANS Non-wagons: Standard Station Wagons: Standard
Non-Wagons: Optional

BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)			Drum	Frt. Disc-Single; Drum-Rear	
Self adjusting (std., opt., N.A.)			Standard	Inherent Feature of Design	
Special Valving	Type (proportion, delay, metering, other)		--	Hold-off Valve--All Prprtnng. Valve--Non-wagons	
Power brake make & type (remote, int., etc.)			Delco Moraine, Integral Type, Vacuum Suspended(a)		
Effective area (sq. in.) *			149.4	103.6	
Gross lining area (sq. in.) **			155.5	110.6	
Swept area (sq. in.) ***			269.2	350.9	
Front to Rear Effectiveness Relationship			62.6	62.6	
Drum	Diameter (nominal)	Front	9.5	--	
		Rear	9.5		
	Type and material		Cast Alloy Iron (b)	--	
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	1.125	2.9375		
	Rear	.875			
Master Cylinder	Bore	1.00	1.125		
	Stroke	1.227	1.425		
Pedal arc ratio			6.15:1 Manual - 3.36:1 Power (d)		
Line pressure at 100 lb. pedal load			700 Manual, 900 Power-Drum, 800 Power-Disc		
Shoe Clearance	Front	(c)	Zero		
	Rear	(c)			
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	7.6 x 2.5 x .196	5.40 x 1.93 x .41
			Second. or in-board	9.85 x 2.5 x .265	5.40 x 1.93 x .44
		Segments per shoe		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			

* 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) Optional with drum brakes. Included with front disc brake option-all series
 (b) Front--finned 1 pc. casting, rear--finned composite.
 (c) Diametral clearance of .030.
 (d) At 0.5 in. push rod travel.

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

MODEL

LEMANS

STEERING

Manual (std., opt., NA)			Standard		
Power (std., opt., NA)			Optional		
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		
		Power	14.75 x 15.25		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	40.5 (112 W.B.)	41.7 (116 W.B.)	
		Curb to curb (l. & r.)	37.4 (112 W.B.)	38.6 (116 W.B.)	
	Inside rear	Wall to wall (l. & r.)	23.1 (112 W.B.)	24.3 (116 W.B.)	
		Curb to curb (l. & r.)	23.7 (112 W.B.)	24.9 (116 W.B.)	
Manual	Gear	Type	Recirculating Ball Bearing		
		Make	Saginaw		
		Ratios	Gear	24:1	
			Overall	28.3:1	
	No. wheel turns (stop to stop)		5.6		
Power	Type (coaxial, linkage, etc.)		Coaxial		
	Make		Saginaw		
	Gear	Type	Recirculating Ball Bearing - Variable Ratio		
		Ratios	Gear	16.0 to 13.0:1 (a)	
			Overall	18.9 to 15.3:1 (b)	
	Pump driven by		Belt From Crankshaft		
No. wheel turns (stop to stop)		3.5 (c)			
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		
Steering Axis	Inclination at camber (deg.)		9° 0' @ 0° Camber		
	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° 30' Negative ± 30'		
	Camber (deg.)		0° 15' Positive ± 30'		
	Toe-in (outside track inches)		0 to .125 Toe-in Measured 9" Above Floor		
Steering spindle & joint type			Reverse Elliott - Ball Joint		
Wheel Spindle	Diameter	Inner bearing	1.249		
		Outer bearing	.749		
	Thread size		3/4 - 20		
	Bearing type		Taper Roller		

(a) 15.0 to 13.0:1 with Handling Package and GTO options

(b) 17.7 to 15.3:1 with Handling Package and GTO options

(c) 3.2 with Handling Package and GTO options

AMA Specifications Form—Passenger Car

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

MODEL

LEMANS

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

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

SUSPENSION – FRONT

Type and description	Ball Joint Independent Front Suspension With Upper & Lower Control Arms Mounted on Rubber Bushings
Spring	Coil
Material	Alloy Steel
Size (coil design height & I.D., bar length x dia.)	11.30 x 3.6 (Dimensions vary with different springs used)
Spring rate (lb. per in.)	250, 280, 310 & 335 (a)
Rate at wheel (lb. per in.)	74, 82, 91 & 99 (a)
Stabilizer	Link
Type (link, linkless, frameless)	
Material & bar diameter	Alloy Steel, .875--LeMans except wagons; .906 wagons and Luxury LeMans (b)

SUSPENSION – REAR

Type and description	Four Link Pivoted Control Arm
Drive and torque taken through	Control Arms
Spring	Coil
Material	Alloy Steel
Size (length x width, coil design height & I.D., bar length & dia.)	7.76 x 5.50 (Dimensions Vary With Different Springs Used)
Spring rate (lb. per in.)	122, 144, 150 & 200 (a)
Rate at wheel (lb. per in.)	106, 130, 130 & 174 (a)
Mounting insulation type	None
If leaf	No. of leaves
Shackle (comp. or tens.)	None
Stabilizer	Optional Only; Bolted to Rear Lower Control Arms
Type (link, linkless, frameless)	
Material & bar diameter	Alloy Steel; .875 with GTO Option, 1.125 With Handling Package Option
Track bar type	Not Used

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

(b) 1.125 on GTO or Handling Package Options

AMA Specifications Form—Passenger Car

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

MODEL

LEMANS

FRAME

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

Perimeter Type With Swept Hips - Boxed on Convertible

BODY - MISCELLANEOUS INFORMATION

LeMans

Luxury LeMans

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Acrylic Lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Ident. No. location		Left Front Edge of Instrument Panel - Visible Through Windshield
Engine No. location		Top of Cyl. Block on RH Side Near Oil Filler (a)
Theft protection - type		*
Vent window control method (crank, friction pivot)	Front	Crank - Exc. 37 & 67 Styles Which are W/O Vent
	Rear	--
Seat cushion type	Front	(b)
	Rear	Zig Zag Spring with Foam Pad
	3rd seat	None
Seat back type	Front	Solid Foam
	Rear	(d)
	3rd seat	None
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 (e)
BODY STYLE	69	39
	27	37
	67	35 & 36
Windshield glass exposed surface area	1249.6	1249.6
	1208.7	1208.4
	1211.8	1249.6
Side glass exposed surface area	1197.0	1291.0
	1198.8	1369.3
	1260.4	2416.2
Backlight glass exposed surface area	1032.2	1032.2
	1083.9	1083.9
	539.7	757.0
Total glass exposed surface area	3478.8	3572.8
	3491.4	3661.6
	3011.99	4422.8

(a) Front of RH cylinder bank on V8 engine.

(b) Zig-zag spring with foam pad.

(c) Zig-zag spring with contour molded foam pad

(d) Zig-zag spring with cotton pad.

(e) Compound curved tempered safety plate on 36, 46, and 39 styles.

* Anti-theft steering column lock: Locks ignition switch, steering wheel and gearshift in Park, key removable in locked position only and opening driver's door operates "key in lock" buzzer. Interior front door locking knobs moved forward to deter theft.

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

MODEL

LEMANS

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	Not Offered
	Backlight or tailgate	Optional on 2-seat station wgn., std. on 3-seat sta.wgn.
Power seats (specify type as well as availability)		Power Tilt Seat (Fore & Aft Plus Elevation at Rear Edge) Optional on All Bench & LH Bucket Seats
Reclining front seat back (R-L or both)		Not Offered
Front seat head restrainer (R-L or both)		Standard Right and Left on All Front Seats
Radios (specify type as well as availability)		Optional: AM, AM-FM, AM-FM Stereo - All Pushbutton Type
Rear seat speaker		Optional
Power antenna		Not Offered - Windshield Antenna Standard
Clock		Optional on All Except With Panel Mounted Tachometer
Air conditioner (specify type and availability)		Reheat Cycle - Optional
Speed warning device		N.A.
Speed control device		Opt. on Cars With V8 Engine & Auto. Trans. Comb.
Ignition lock lamp		Not Offered
Dome lamp		Standard Except Convertible
Glove compartment lamp		Standard on Luxury Lemans - Optional on Others
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Standard on Convertible - Optional on Others
Map lamp		Not Offered
Auto. trans. quad. lamp		Standard
Cornering light lamp		Not Offered
Low Fuel Warning Lamp		N.A.
Tachometer		Optional with V8 in Rally Gage Cluster
Stereo Tape Player		Optional in Combination With Any Radio
Elec. Luggage Compartment Lid Release		Optional
Dome and Reading Lamp		Optional - All Except Convertible
Rear Compartment Courtesy Lamp		Optional on Station Wagons
Cigar Lighter		Standard

Cassette Tape Player LAMP HEIGHT AND SPACING

			Optional in combination with any radio (a)	Endura Frnt. End
Height above ground to center of bulb or marker	Headlamp	Highest	27.5 (Exc. Station Wagon 28.3)	27.0
		Lowest	27.5 (Exc. Station Wagon 28.3)	27.0
	Tail	Highest	21.4 (Exc. Station Wagon 29.8)	21.4
		Lowest	-	-
	Sidemarker	Front	16.4 (Exc. Station Wagon 17.1)	20.4
		Rear	21.4 (Exc. Station Wagon 29.8)	21.4
Distance from C/L of car to center of bulb	Headlamp	Inside	23.4	24.3
		Outside *	31.3	31.2
	Tail	Inside	24.2 (Exc. Station Wagon 33.7)	24.2
		Outside	30.3 (Exc. Station Wagon 33.7)	30.3
	Directional	Front	28.8	27.5
		Rear	Same as Tail Lamp	

* If single headlamps are used enter here.

(a) Cassette Tape Player and Stereo Tape Player not available with each other.

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

VEHICLE WEIGHTS

LEMAN'S		CURB WEIGHT* (Pounds)			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT** (Pounds)
Model		Front	Rear	Total	Pass. In Front		Pass. In Rear		
					Front	Rear	Front	Rear	
LeMans									
2-Dr. Coupe	2D27	1777	1526	3303					
2-Dr. HT	2D37	1792	1537	3329					
4-Dr. Sedan	2D69	1816	1547	3363					
2-Seat SW	2D36	1782	2092	3874					
3-Seat SW	2D46	1789	2142	3931					
LeMans Sport									
2-Dr. HT	2D37	1802	1546	3348					
Convertible	2D67	1838	1579	3417					
GTO (W62 Option)									
2-Dr. Coupe	2D27	2090	1615	3705					
2-Dr. HT	2D37	2095	1619	3714					
LeMans Luxury									
2-Dr. HT	2G37	2024	1558	3582					
4-Dr. HT	2G39	2083	1624	3707					

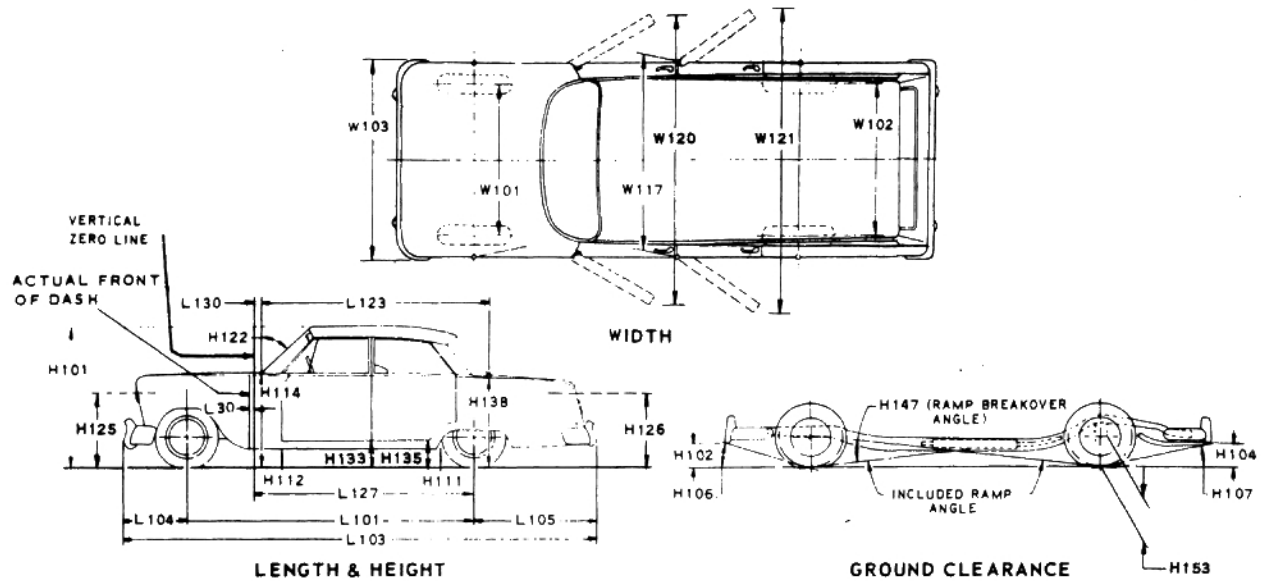
* Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

** Shipping weight definition –

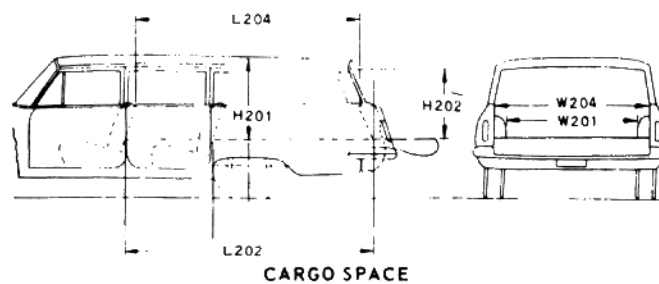
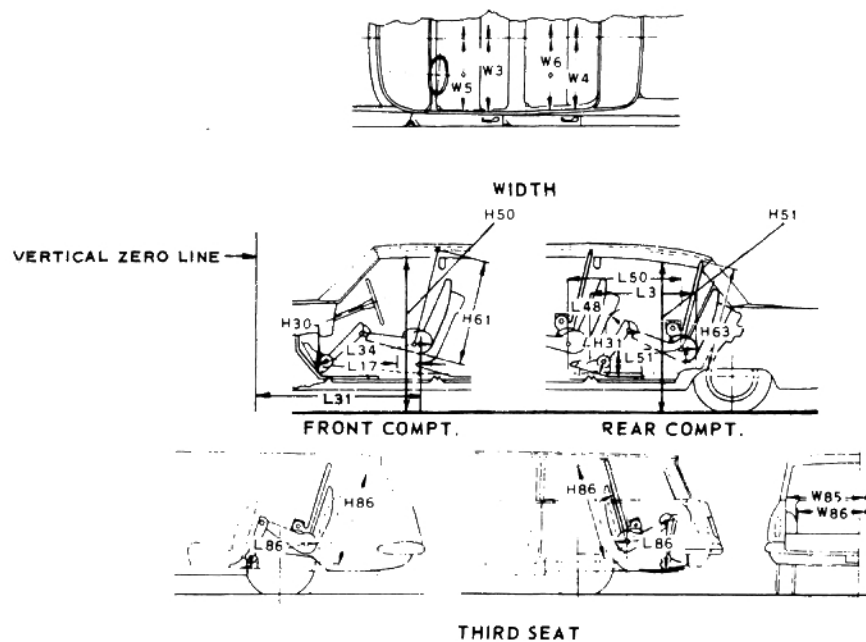
OPTIONAL EQUIPMENT WEIGHTS

Form Rev. 3-71

CAR AND BODY DIMENSIONS
KEY SHEET
EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



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.

**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.

$$\frac{W4 \times L204 \times H201}{1728}$$

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