1972
AMA SPECIFICATIONS FORM
. . . Passenger Car

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

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

BODY MODEL	Body Series, Type and Number. (Use mfgr's. code for identification)				Number of Passengers (Indicate Front/Rear)
Body Type	LeMans	LeMans Sport	GTO	Luxury	No. of Passengers (Fr/Rr)
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

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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.	LEMANS Coupe 2D 2D27	LEMANS Coupe 2D-HT 2D37	LEMANS Sedan 4D 2D69	GTO: W62 Option	SPORT Conv. 2D 2D67	LUXURY LEMANS Coupe 2D-HT 2G37	LUXURY LEMANS Sedan 4D-HT 2G39	Station Wagons 2-Seat 2D36	Station Wagons 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 ℄ 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	H112	7.8	7.8	7.8	7.8	7.8	7.8	7.8	9.0	9.0
Rocker panel – front: From front wheel ℄	H112	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	H111	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.5	8.5
Rocker panel – rear: From rear wheel ℄	H111	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

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

CAR AND BODY DIMENSIONS

See Pages 27, 29 for SAE Dimension Definitions

MODEL PONTIAC	SAE Ref. No.	LEMANS Coupe 2D 2D27	LEMANS Coupe 2D-HT 2D37	LEMANS Sedan 4D 2D69	SPORT Conv. 2D 2G67	LUXURY Coupe 2D-HT 2G37	LUXURY Sedan 4D-HT 2G39	STATION WAGONS 2-Seat 2D36	STATION WAGONS 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.) $\frac{W4 \times L204 \times H201}{1728}$	V2							83.6	83.6

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

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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.	Carb.	Compr. Ratio	Gross @ RPM BHP	Gross @ RPM Torque	Net @ RPM BHP	Net @ RPM 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) 175 @ 4400 (j)	270 @ 2000 (i) 275 @ 2000 (j)	Manual (3-Sp.) (d) (f) Automatic (M35) (g) Automatic (M35) (h) Turbo Hydra-matic (M38) (g) Turbo Hydra-matic (M38) (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) 175 @ 4400 (j)	270 @ 2000 (i) 275 @ 2000 (j)	Manual (3-Sp.) (d) (f) Automatic (M35) (g) Automatic (M35) (h) Turbo Hydra-matic (M38) (g) Turbo Hydra-matic (M38) (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) 200 @ 4000 (j)	310 @ 2400 (i) 325 @ 2400 (j)	Turbo Hydra-matic (M40)	2.78 (a), 3.08
400 4-bbl. (L78)									
2D & 2G *	400	4-bbl.	8.2			200 @ 4000 (i) 250 @ 4400 (j)	295 @ 2800 (i 325 @ 3200 (j	Manual (3-Sp.HD) (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 230 @ 4400	375 @ 2400 360 @ 2800	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

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MODEL LEMANS

ENGINE – GENERAL

		250 L6 Engine	350 V8 Engine
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 (℄ to ℄)		4.4	4.62
No. system (front to rear)	L. Bank	1-2-3-4-5-6 (In-Line)	1-3-5-7
	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		4.6°	4.7°
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		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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MODEL LEMANS

ENGINE – GENERAL

		400 Cu. In. Engine	455 Cu. In. Engine
Type, no. cyls., valve arr.		90° V, 8, In-Head	
Bore and stroke (nominal)		4.1200 3.746 4.1224 x 3.754	4.1510 4.206 4.1534 x 4.214
Piston displacement, cu. in.		400	455
Bore spacing (℄ to ℄)		4.62	
No. system (front to rear)	L. Bank	1-3-5-7	
	R. Bank	2-4-6-8	
Firing order		1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		8.2	8.2 (a)
Cylinder Head Combustion Chamber Volume (cc)		96.36 - 2 Bbl. 95.61 - 4 Bbl.	112.64 - L75 Engine 111.89 - LS5 Engine
Cylinder Head Material		Alloy Cast Iron	
Cylinder Block Material		Alloy Cast Iron	
Cyl. Sleeve-Wet, dry, none		None	
Number of mtg. points	Front	2	
	Rear	1	
Engine installation angle		4.7°	
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		54.3	55.2
Recommended fuel regular – premium		Regular (91 Octane)	

ENGINE – PISTONS

Material			Aluminum Alloy	
Description and finish			Cam Ground Slipper Type - Tin Plated	
Weight (piston only) oz.			22.070 - 22.250	20.515 - 20.695
Clearance (limits)	Top land		.017 - .021	.024 - .029
	Skirt	Top	.0025 - .0033 (b)	.0025 - .0033 (c)
		Bottom	.0020 - .0038	.0020 - .0038
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) 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

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MODEL LEMANS

ENGINE – RINGS

		250 L6 Engine	350 V8 Engine
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

			250 L6 Engine	350 V8 Engine
Material			Chromium Steel	SAE 1016
Length			3.00	3.25
Diameter			.9272	.9802
Type	Locked in rod, in piston, floating, etc.		Locked in Rod	
	Bushing	In rod or piston	None	
		Material	None	
Clearance	In piston		.00015 - .00025	.0005 - .0007
	In rod		Press Fit	
Direction & amount offset in piston			To Right .060	To Right .063

ENGINE – CONNECTING RODS

		250 L6 Engine	350 V8 Engine
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 LEMANS

ENGINE – RINGS

		400 Cu. In. Engine	455 Cu. In. Engine
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
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston		.0005 - .0007
	In rod		Press Fit
Direction & amount offset in piston			To Right - .063

ENGINE – CONNECTING RODS

		400 Cu. In. Engine	455 Cu. In. Engine
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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MODEL			250 L6 Engine	LEMANS 350 and 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	.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		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	None	60
		Width	None	.88 (Morse)
		Pitch	None	.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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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.

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

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

MODEL			LEMANS W/Turbo Hydra-matic Trans.	LEMANS Exc. Turbo Hydra-matic Trans.
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)	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 68.3	54.3 @ 1.5898 68.3
		Valve open (lb. - in.)	125.1 @ 1.1793 139.1	119.4 @ 1.2125 133.4
	Inner spring press. & length	Valve closed (lb. - in.)	28.4 @ 1.5498 38.4	28.4 @ 1.5498 38.4
		Valve open (lb. - in.)	92.9 @ 1.1393 102.9	87.7 @ 1.1725 97.7
Exhaust	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
	Outer spring press. & length	Valve closed (lb. in.)	54.3 @ 1.5898 68.3	54.3 @ 1.5898 68.3
		Valve open (lb. - in.)	125.2 @ 1.1748 139.2	125.5 @ 1.1767 139.5
	Inner spring press. & length	Valve closed (lb. - in.)	28.4 @ 1.5498 38.4	28.4 @ 1.5498 38.4
		Valve open (lb. in.)	93.6 @ 1.1348 103.6	93.3 @ 1.1367 103.3

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

MODEL LEMANS
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		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

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

MODEL			LEMANS 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 (BBC)	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 73.3	57.8 @ 1.5693 71.8
		Valve open (lb. in.)	130.8 @ 1.1462 144.8	128.6 @ 1.1588 142.6
	Inner spring press. & length	Valve closed (lb. - in.)	33.0 @ 1.5208 43.0	31.6 @ 1.5293 41.6
		Valve open (lb. - in.)	98.1 @ 1.1062 108.1	96.1 @ 1.1188 106.1
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 73.3	57.8 @ 1.5693 71.8
		Valve open (lb. in.)	130.7 @ 1.1469 144.7	129.2 @ 1.1554 143.2
	Inner spring press. & length	Valve closed (lb. - in.)	33.0 @ 1.5208 43.0	31.6 @ 1.5293 41.6
		Valve open (lb. in.)	98.0 @ 1.1069 108.0	96.7 @ 1.1154 106.7

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

MODEL		250 L6 Engine	LEMANS 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

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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, duol, 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

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

MODEL

	LEMANS		
	250 L6 Engine	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)		
Carburetor	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air cleaner type	Standard	Oil Wetted Paper Element		
		Optional	Two-Stage Wetted Plastic Foam Over Paper Element		
	Idle speed (spec. neutral or drive) N D	Manual N	700	900	600
		Automatic D	550	625	625 (c)
		Idle A/F mix.	Not Specified		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
2D – Standard	250	Manual	Rochester	7041017	1, 1-bbl.	1.69
		Automatic	Rochester	7041014	1, 1-bbl.	1.69
2D – Optional	350	Manual	Carter	488062	1, 2-bbl.	1.43
2G – Standard		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 S. 2.25
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.

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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)	L6 Engine	V-8 Engine	80 Amp.
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

* 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

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MODEL LEMANS

VEHICLE EMISSION CONTROL

Exhaust Emission Control	Type (Air injection, engine modifications, other)		STANDARD ENGINE PROVIDES EXHAUST EMISSION CONTROL
	Air Injection Pump	Type	
		Displacement	
		Drive ratio	
		Drive type	
		Relief valve (type)	
		Filter (describe)	
	Air Injection System	Air distribution (head, manifold, etc.)	
		Point of entry	
		Injection tube i.d.	
		Check valve type	
		Backfire protection (type)	
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, cannister, other)	Canister
	Carburetor	Vapor vented to (crankcase, cannister, other)	Canister
	Vapor Storage	Storage provision (crankcase, cannister, other)	Canister
		Volume (cu. ft.) or capacity (grams)	.055 cu. ft.
		Control valve type	Thermal (Engine Coolant Temperature)

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MODEL				LEMANS 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			REGULAR INTEGRAL WITH ALTERNATOR - NO EXTERNAL REGULATOR USED			
	Model						
	Type						
	Cutout relay	Closing voltage generator rpm					
		Reverse current to open					
	Regulated	Voltage					
		Current					
	Voltage test conditions	Temperature					
		Load					
		Other					
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. *Use neutral or park with automatic transmission (No clutch).			
Motor Drive	Engagement type			Sliding Gear - Overrunning Clutch			
	Pinion meshes (front, rear)			Rear	Front		
	Number of teeth	Pinion		9			
		Flywheel	Manual	153	166		
			Auto.	153	166		
	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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MODEL		LEMANS 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			LEMANS 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) (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			
Clutch facing	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.

		3-Sp. 250 L6	3-Sp. 350 V8	3-Sp. 400 V8	4-Sp. 350 V8	4-Sp. Wide Radio	4-Sp. Close Ratio
Number of forward speeds							
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 number: Summer	80 or 90					
	SAE viscosity number: Winter	80 or 90					
	SAE viscosity number: 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 L6	P	R	N	D	L	P	R	N	D	S	L
			1.82		1.82	1.82		1.92		2.52	2.52	2.52
					1.00					1.52	1.52	
	350 V8		1.76		1.76	1.76				1.00		
					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 convertor	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.

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MODEL	LEMANS 400 2-bbl.	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	P R N D S L 2.08 2.48 2.48 1.48 1.48 1.00	
Max. upshift speed–drive range (b)	82	86
Max. kickdown speed–drive range (b)	76	80
Torque convertor: Number of elements	Three	
Torque convertor: Max. ratio at stall	2.0:1	2.3:1
Torque convertor: Type of cooling (air, liquid)	Liquid	
Torque convertor: Nominal diameter	12.5	
Lubricant: Capacity–refill (pt.)	7.5	
Lubricant: 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.)	
Outer diam. x length* x wall thickness: Manual 4-speed trans.	3.25 x 58.84 x .065 (116 W.B.) 3.00 x 54.84 x .065 (112 W.B.)	
Outer diam. x length* x wall thickness: Overdrive transmission	Not Offered	
Outer diam. x length* x wall thickness: 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.

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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 2.08 — N — D 2.48, 1.48, 1.00 — S 2.48, 1.48 — L 2.48
Max. upshift speed–drive range (b)		86
Max. kickdown speed–drive range (b)		80
Torque convertor	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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MODEL LEMANS

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate 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)	Anti-Friction
		Lubric. (fitting, prepack)	Prepacked
Drive taken through (torque tube or arms, springs)			Control Arms
Torque taken through (torque tube or arms, springs)			Control Arms

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Semi-Floating Hypoid
Limited Slip differential, type			Spring Loaded Clutch (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	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		3.07:1	3.31:1	(c) 3.55:1	2.56:1	2.78:1	3.08:1	3.23:1	(d) 3.55:1
No. of teeth	Pinion	14	13	11	16	14	13	13	11
	Ring gear	43	43	39	41	39	40	42	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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MODEL	LEMANS		6 Cyl. Except Wagons and Convertible	(a)	(b)	Wagons

DRIVE UNITS — TIRES AND WHEELS (STANDARD)

	Size, load range, ply		E78-14B	F78-14B	G78-14B	H78-14B
TIRES	Type (bias, radial, etc.)		Bias-Belted			
TIRES	Normal max. load inflation pressure (cold)	Front	26			24
TIRES		Rear	28			32
TIRES	Rev. mile - 45 mph		799	787	772	750
WHEELS	Type & material		Disc - Steel			
WHEELS	Rim (size & flange type)		14 x 5JJ	14 x 6JJ		
WHEELS	Attachment	Type (bolt or stud)	Stud			
WHEELS		Circle diameter	4.75			
WHEELS		Number & size	5, 7/16-20			
WHEELS	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, GTO[1] Handling Package[2], 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, GTO[1], Handling Package[2]; V8 LeMans and LeMans Sport with air conditioning and Endura Styling Option, except wagons, GTO[1], Handling Package.[2]

[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

BRAKES – SERVICE

				Non-wagons: Standard	Station Wagons: Standard Non-Wagons: Optional
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 Prprtng. 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 cylinder 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 outboard	7.6 x 2.5 x .196	5.40 x 1.93 x .41
			Second. or inboard	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 outboard	7.6 x 2.0 x .196	
			Second. or inboard	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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MODEL LEMANS

STEERING

Manual (std., opt., NA)				Standard	
Power (std., opt., NA)				Optional	
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilting Wheel, Adjusts Vertically - Six positions	
		(std., opt., NA)		Optional	
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

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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. Geometry of Rear Links
Provision for acc. squat control		
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 & Lower Control Arms Mounted on Rubber Bushings
Spring	Type	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	Type (link, linkless, frameless)	Link
	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	Type		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	None
		Shackle (comp. or tens.)	None
Stabilizer	Type (link, linkless, frameless)		Optional Only; Bolted to Rear Lower Control Arms
	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

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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 Indent. 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)	(c)
	Rear	Zig Zag Spring with Foam Pad	
	3rd seat	None	
Seat back type	Front	Solid Foam	(c)
	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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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		Optional in combination with any radio (a)

LAMP HEIGHT AND SPACING

			Conventional Front End	Endura Frt. 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.

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VEHICLE WEIGHTS

LEMANS Model		CURB WEIGHT* (Pounds) Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING WEIGHT** (Pounds)
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					

ESTIMATED

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

**Shipping weight definition –

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OPTIONAL EQUIPMENT WEIGHTS

Equipment Differential Weights	WEIGHT (Pounds) Front	Rear	Total	Remarks
3 Spd. H.D. Man. Trans. (M13)	13.9	5.9	19.8	Replacing 3-speed column shift
4 Spd. Man. Trans. (M20)	- 2.0	-0.8	- 2.8	Replacing 3-speed column shift
4-Spd. Man. Trans.(M20 & M22)	-17.2	-7.4	-24.6	Replacing 3-speed HD floor shift
Auto. Trans. (M35)	- 2.4	-1.0	- 3.4	With 6-cylinder or 350 engine
Turbo HM (M38)	19.4	8.2	27.6	With 6-cylinder or 350 engine
Turbo HM (M40)	30.3	13.0	43.3	Replacing 3-speed column shift
Turbo HM (M40)	10.2	4.4	14.6	Replacing 3-speed HD floor shift
350 2-bbl. Engine (L30)			216	Replacing 6-cylinder
400 2-bbl. Engine (L65)	5	—	5	Replacing 350 2-bbl.
400 4-bbl. Engine (L78)			234	Replacing 6-cylinder
455 4-bbl. Engine (L75)			238	Replacing 6-cylinder
455 4-bbl. HO Engine (LS5)			248	Replacing 6-cylinder
Air Conditioning (C60)	110	2	112	
Electrically Operated Windows (A31)	12	13	25	
Electrically Operated Tailgate (A33)	-1.5	9.0	8.5	
Electric Power Bench Seats (A41)	9.5	9.4	18.9	
Electric Power Bucket Seat (A46)	8.8	8.4	17.2	
Power Disc Brakes (JL2)	27.2	1.8	29.0	Replacing manual drum brakes
Dual Exhaust (N10)	7.1	21.5	28.6	
Power Steering (N41)	29.5	-1.5	28.0	

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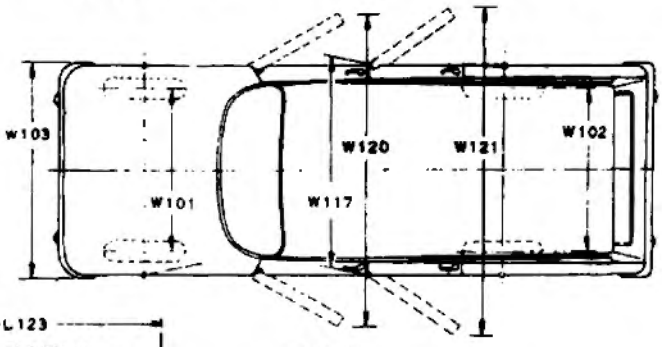
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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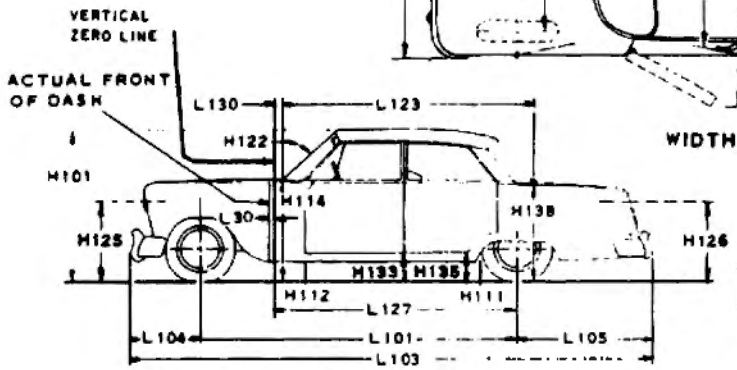
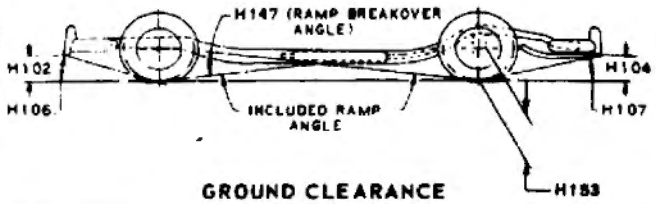
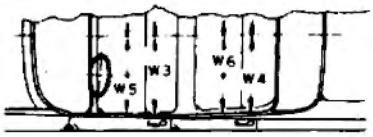


LENGTH & HEIGHT



GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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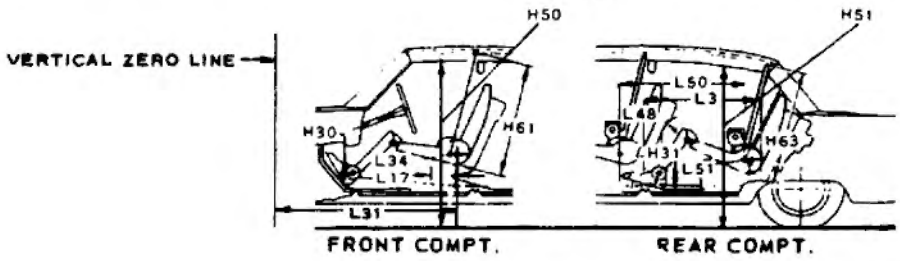
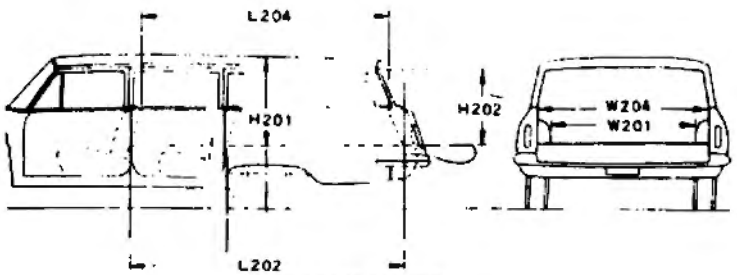


FRONT COMPT. REAR COMPT.

THIRD SEAT



CARGO SPACE

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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 wheelhousings at floor level.

W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.

H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.

H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.

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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