AMA Specifications - Passenger Car

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MANUFACTURER	Pontiac Motor Division General Motors Corporation	CAR NAME PONTIAC			
MAILING ADDRESS		MODEL YEAR	ISSUED:	9-12-62	
	Pontiac 11, Michigan	1963	REVISED (•)	

NOTES:

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

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	No. of		Mod	lel	
Body Type	Pass.	Catalina	Star Chief	Bonneville	Grand Prix
4-Door Sedan	6	2369	2669		
2-Door Sedan	6	2311			
4-Door Hardtop Sedan	6	2339	2639	2839	
2-Door Hardtop Coupe	6	2347		2847	2957**
2-Door Convertible Coupe	5	2367		2867*	*
4-Dr. Station Wagon - 2-Seat	6	2335		2835	
4-Dr. Station Wagon - 3-Seat	9	2345			

- * Passenger capacity is reduced to 4 with optional bucket front seats.
- ** Passenger capacity is 5 bucket front seats standard equipment.

MAKE OF CA	AR P	ONTIAC MODEL YE	AR 1963 DATE ISSUED 9-12-	62 REVISED (6)				
MODEL		CATALINA STAR C	CHIEF BONNEVILLE	GRAND PRIX				
ENG	INE-GEN	IERAL						
Type, no. cyls., v	valve arr.		90°V. 8, In-Head					
Bore and stroke	(nominal)		4.06 x 3.75					
Piston displaceme	ent,cu. in.		389					
Bore spacing (C/	L to C/L)		4.62					
No, system	L. Bank	All Sections of the Control of the C	1-3-5-7					
(front to rear)	R. Bank		2-4-6-8					
Firing order		1-8	3-4-3-6-5-7-2					
Compres, ratio (n	ominal)	8.6:1		10. 25:1				
Cylinder Head N	Material	Alloy Cast Iron						
Cylinder Block A	/aterial	Alloy Cast Iron						
Cylinder Sleeve-Wet, dry, none		None						
Number of	Front	Two						
mounting points	Rear	One						
Engine installati	on angle		50					
Taxabla <u>Dia.</u> horsepower	2 x No. Cyl. 2.5	52.8						
Published max. b @ eng. RPM	ohp*	215 @ 3600 (a)	235 @ 3600 (a)	303 @ 4600 (a)				
Published max. to (lb. ft. @ RPM)	orque*	394 @ 2000 (a)	407 @ 2000 (a)	430 @ 2800 (a)				
Recommended fu regular – premiu		Regular		Premium				
Idle speed (spec.	Manual		30-500 RPM (Neutral) (b)					
neutral or drive)	Automatic	48	30-500 RPM (Drive) (b)					
ENG	INE-PIST	ONS	9					
Material			Aluminum Alloy					
		Cam	Ground Slipper Type with					
Description and	finish -	11	Struts - Piston Tin Plated					

Material			Aluminum Alloy			
Description and finish Weight (piston only) oz.		sh .	Cam Ground Slipper Type with Steel Struts - Piston Tin Plated			
		oz.	23.875 to 24.062			
	Top land		. 024 033			
Clearance (limits)	Skirt	Тор	.00070021*			
(11mins)	1	Bottom	.00000018*			
	No. 1	ring	.207215	-		
Ring groove	No. 2	ring	.197205			
depth	No. 3	ring	. 179 188			
	No. 4	ring	None	300 0 5110		

^{*} Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

- (a) See Page 3 for Optional Engine Information.
- (b) Air Conditioned Car adjusted to 540-560 RPM with Air Conditioning Unit turned off.

^{*} Pistons selected for .0007 to .0013 clearance at 1.18 below top of skirt.

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PONTIAC

MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED (.)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY		E	NGINE			TRANSMISSION	AXLE RATIO (Std. first)
Catalina 23 Star Chief 26 Bonneville 28 Grand Prix 29	Displ. cu. In.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
STÄNDARD ENGINE	s						•
23 & 26	389	2-Bbl.	8.6:1	215 @ 3600	394 @ 2000	Synchromesh (a) (g)	3. 23:1, 3. 08:1, 3. 42:1 (h)
28	389	4-Bbl.	8. 6:1	235 @ 3600	407 @ 2000	H. D. Synchromesh (c)	3. 23:1, 3. 08:1, 3. 42:1
29	389	4-Вы.	10. 25;	1 303 @ 4600	430 @ 2800	H. D. Synchromesh (b)(g)	3. 42:1, 3. 64:1
OPTIONAL ENGINE	s		1	10-40-4-40-1			
Economy Hydrama	ttic						Core is seen source:
23 & 29	389	2-Bbl.	8.6:1	230 @	386 @	Hydramatic 375	2.56:1*
26 & 28	389	2-Bbl.	8.6:1	4000	2000	Hydramatic 375	2. 56:1* (f)
Standard Hydrama	tlc	1	1				
23	389	Z-Bbl.	10. 25:	1 267 @ 4200	410 @ 2400	Hydramatic 375	2.69:1, 2.56:1, 3.08:1*
26	389	2-Bb1.	10. 25:	1 283 @ 4400	418 @ 2800	Hydramatic 315	2.69:1, 2.56:1, 3.08:1*
28	389	4-ВЫ.	10. 25:	1 303 @ 4600	430 @ 2800	Hydramatic 315	2.69:1, 2.56:1, 3.08:1* (e
29	389	4-Bbl.	10. 25:	1 303 @ 4600	430 @ 2800	Hydramatic 375	3, 23:1, 3, 42:1
4-Barrel Carbure	tor Option	8	0.000				
23 & 26	389	4-Bbl.	8. 6:1	235 @ 3600	407 @ 2000	Synchromesh (g) (d)	3. 23:1, 3. 08:1, 3. 42:1 (h)
23, 26 & 28	389	4-Bbl.	And the second second	1 303 @	430 @	4-Speed Synchromesh (b)	3. 42:1, 3. 64:1
23	389	4-Bbl.	The state of the s	1 4600	2800	Hydramatic 375	2.69:1, 2.56:1, 3.08:1*
26	389	4-Bbl.	10. 25:	1		Hydramatic 315	2.69:1, 2.56:1, 3.08:1*
389 TRIPLE 2-BAR	REL CARI	URETOR O	PTION				
23, 26, 28 & 29	389	3-2 Bbl.		1313@	430 @	H. D. Synchromesh (b)(g)	
23	389	3-2 Bbl.	A STATE OF THE PARTY OF THE PAR	1 4600	3200	Hydramatic 375	3.08:1
26 & 28	389	3-2 Bbl.	10, 25:			Hydramatic 315	3.08:1
29	389	3-2 Bbl.	10. 25:	1		Hydramatic 375	3, 23:1, 3, 42:1
421 HO 4-BARREL	CARBURE	TOR ENGIN	E OPTIO	4			
All Models	421	4-Bbl.	10. 75:	1 353 @	455 @	H. D. Synchromesh (b)(g)	3, 42:1
23 & 29	421	4-Bbl.	10. 75:		3400	Hydramatic 375	3, 42:1
26 & 28	421	4-Вы.	10, 75:	1		Hydramatic 315	3. 42:1
421 HO 3-2 BARREI	CARBUR	ETOR ENGI	NE OPT	ри			
All Models	421	3-2 Bbl,		370 @	460 @	H. D. Synchromesh (b)(g)	
23 & 29	421	3-2 Вы.		5200	3800	Hydramatic 375	3, 42:1
26 & 28	421	3-2 Bbl.	10. 75:	1	İ	Hydramatic 315	3. 42:1
					1		
							e1
			•			.:	1900

Heavy duty 3-speed synchromesh trans, with heavy duty clutch optional on 23 series. Heavy duty 3-speed synchromesh trans, is standard on 26 series - heavy duty clutch is separate option on 26 series.

Except 2835 model on which H. D. 3-speed trans, is optional. (c)

(e) (f) Except 2835 and 2867 models which use 2, 69:1

Heavy duty clutch is standard equipment,

⁽d) Heavy duty 3-speed synchromesh trans, optional on 23 series - std. on 26 series.

Except 2835 and 2867 models on which ratios are 3.08:1, 2.69:1 & 3.23:1.

⁴⁻speed synchromesh trans. optional. (g)

Except with 4-speed synchromesh option on which ratios are 3.42:1 std. & 3.64:1 performance. (h)

⁽j) * Performance ratio (3.64:1) optional on 29 series. .

If air conditioned - mandatory minimum ratio is 2.69:1.

MAKE OF	CARPONT	CIAC MO	DEL YEAR 1963 D	ATE ISSUED 9-12-62	REVISED (+)		
		95544 100 NASA 10 20		Antipopologica (1986) - BARRANIA WALLES			
MODEL		CATALINA	STAR CHIEF	BONNEVILLE	GRAND PRIX		
EN	GINE—RINGS						
	No. 1, oil or comp.		Compr	ession			
Function (top. to	No. 2, oil or comp.			ession			
(top to bottom)	No. 3, oil or comp.		Oi				
	No. 4, oil or comp.		Nor	ne			
Compression	Description - material, type, coating, etc.	No. 1	A STATE OF THE PARTY OF THE PAR	Taper Faced Ring come, No. 2 with	A CONTROL OF THE CONT		
p.000.0	Width		. 0	78			
	Gap		No. 1.021.				
	Description -	Multi-niece			el with Chrome		
Oil	material, type, coating, etc.	Multi-piece (2 rails & 1 expander) Rails - Steel with Chrome Plated O. D Spacer - Stainless Steel					
V V	Width		. 186				
	Gap	. 035					
Expanders			In Oil Ring	Assembly			
ENG	GINE—PISTON PI	NS					
Material			SAE 1117 Mod	ified Steel			
Length .		3. 25					
Diameter			. 9802				
Tues	Locked in rod, in piston, floating, etc.		Locked in F	Rod			
Туре	In rod or piston		None				
	Bushing Material		None	8			
Clearance	In piston		. 0003	0005			
	In rod		Press Fi	t			
Direction & c	amount offset in piston		To right	063			
ENG	INE_CONNECTI	NG RODS		<u> </u>			
Material			Arma S	teel (a)			
Weight (oz.)			30.7	(a)			
Length (cente	er to center)		6,625				
	Material & Type	Durex 100		- Removable, Pr	ecision		
Bearing	Overall length		. 88				
	Clearance (limits)		. 0005 0	0025			
	End play			Total for Two)			

(a) Optional 421 cu. in. engine uses forged 1139 or 1335 modified steel connecting rods weighing 30.4 oz.

MAKE O	F CAR_	PONT	riacı	MODEL YEAR 1963	DATE ISSUED 9-12-62	REVISED (*)	
AODEL_			CATALINA	STAR CHIEF	BONNEVILLE	GRAND PRIZ	
E	NGINE	-CRANKSH	AFT	1.10			
Material			ND 2446 - 1	Cast Pearlitic	Malleable Iron		
Vibration	damper ty	ре		Rubber Flo	pated Weight		
End thrust	taken by b	earing (No.)		4		78	
	end play				0085		
	Material	& type	Durex 100		l - Removable, Pre	cision	
	Clearand	e ·		.0005	0020		
	1	No. 1			.94 (a)		
M! -		No. 2		3.00 x	.94 (a)		
Main bearing	Journal dia. and	No. 3			. 94 (a)		
	bearing	No. 4	200		1.13 (b)	-	
	overall length	No. 5		3.00 x	1.59 (a)	905040	
		No. 6		Non	1e	***	
		No. 7		Non	ne	¥.	
	Dir. & c	amt. cyl. offset	None				
Crankpin	journal die	ometer	-90 10 antimators	2.2	5.5	2	
E	NGINE	-CAMSHA	FT				
Location			Between Cylinder Banks				
Material			Hardened Alloy Cast Iron				
Bearings	Material		High Lead Babbitt on Steel				
	Number		5 Chain				
	Gear or			Cha	iin		
		aft gear or material	Carburized and Hardened Steel				
Type of Drive		t gear or material	Cyanide Hardened Alloy Iron				
	Timing	No. of links	1800 Pg - 200	6()		
	chain	Width			1.00 (Link Belt)		
	<u> </u>	Pitch		.3	75		
E	NGINE	-VALVE S	YSTEM	150000			
Hydraulic	lifters (Sta	, opt, NA)		Stand	ard		
Valve rota (intake, e:				Nor			
Rocker rat	io		7200704 BILLIAN	1.5	:1		
Operating clearance		ake		0			
(indicate h or cold)		naust		. 0			
	rks on flyw	vheel,			t Pulley Hub		

* M-400 in lower half of No. 4.

(b) 3.25×1.19 on optional 421 cu. in. engine.

(Continued)

⁽a) 3.25 dia, on optional 421 cu. in. engine

MAKE O	F CAR_	POI	NTIAC	MODEL YEAR 1963	DATE ISSUED 9-12-62REVISE	D(•)		
			Std. 23, 26	23 HM or	26, 28 & 29 HM, 29 SM	421 H.O.		
			& 28 SM	Economy HM	& All 4-Sp. SM Opt. with	Engine Op		
MODEL_			& ZO DIVI	Economy HW	Prem. Fuel Engine. 23			
	ENGIN	-VALVE	YSTEM (cont.)		& 26 HM with 4-Bbl. Opt.			
	Γ	Opens (°BTC)	14	22	All 3 x 2 Bbl. Carb. Opt.	33		
	Intake	Closes (OABC)	58	67	63	79		
Timina	3.000	Duration - deg.	252	269	273	292		
Timing		Opens (OBBC)	48	63	77	90		
33	Exhaust	Closes (OATC)	24	27	25	32		
		Duration - dea.	252	270	282			
	Valve ope	ning overlap	38	49	55	302 65		
	Material				inum Treatment on Seat	05		
	Overall le	nath	4. 74	4.86	4.86	4.91		
		rall head dia.	T. (T	1.88		1.92		
183		eat & face			Seat - 29° Face	1.72		
	Seat insert material				Not Used			
	Stem diameter				. 34			
	Stem to gui	ide clearance			0210038			
Intake	Lift (@ ze		. 33	.37	L .40	. 40		
ANA TONO	Outer spring press, and length	Valve closed (lb. @ in.)	80 @ 1.53	58.@ 1.53	60 @ 1.52	62 @ 1.52		
		Valve open (lb. @ in.)	171 @ 1.20	107 @ 1.16	114 @ 1.12	131 @ 1.12		
	Inner spring press. and length	Valve closed (lb. @ in.)	Not Used	26 @ 1.48	26 @ 1.48	32 @ 1.48		
		Valve open (lb. @ in.)	Not Used	61 @ 1.11	64 @ 1.08	96 @ 1.08		
	Material			T-XCR*		21-4-N*		
	Overall length		4.72	4.85	4.85	4.89		
		rall head dia.	1.60					
	Angle of s	eat & face	45° Seat - 44° Face					
	Seat insert	material	Not Used					
	Stem diame	eter	.34					
	Stem to gu	ide clearance		.00	260043			
Exhaust	Lift (@ ze	ro lash)	. 33	. 37	. 40	. 40		
	Outer spring	Valve closed (lb. @ in.)	80 @ 1.53	58 @ 1.53	60 @ 1.52	62 @ 1.52		
	press, and length	Valve open (lb. @ in.)	171 @ 1.20	107 @ 1.16	114 @ 1.12	131 @ 1.12		
	Inner spring	Valve closed (lb. @ in.)	Not Used	26 @ 1.48	26 @ 1.48	32 @ 1.48		
	press, and length	Valve open (lb. @ in.)	Not Used	61 @ 1.11	64 @ 1.08	96 @ 1.08		
	ENGIN	E-LUBRICA	ATION SYSTEM	A		<u> </u>		
	Main bear	ings		*	Pressure			
	Connecting				Pressure	-		
Type of	Piston pins				Splash			
lubrication (splash,	Camshaft &				Pressure	· · · · · · · · · · · · · · · · · · ·		
pressure,	Tappets	•			Pressure			
nozzle)	Timing gear or chain		Pressure Metered Jet					
	Timing ged	ar or chain		Metered Jet Metered Jet				

(Continued)

^{*} Aluminum treatment on seat.

MODEL_			CATALINA STAR CHIEF	BONNEVILLE	GRAND PRI		
EN	IGINE-LUBR	ICATION	SYSTEM (cont.)				
Oil pump ty	/pe		Spur	Gear	70000000		
Normal oil pressure (lb. @ engine rpm)		rpm)		bove 2600 RPM			
Oil pressure sending unit (elect, or mech.) Type oil intake (floating, stationary)		or mech.)	Elec				
		эгу)	Stationa	ry Screen			
Oil filter sy	stem (full flow, partic	al, other)	· Full	Flow	akenta dootay ta		
ilter replac	ement (element, com	plete)	Com	plete			
Capacity of	crankcase, less filter	-refill (qt.)	4				
	ecommended (SAE vi ature range)	scosity	Anticipated Lowest Temp. Above Freezing (+32°F.) Below Freezing (0°F. to +32°F.)	Single Viscosity SAE Number 20W 10W	Acceptable Alternate 10W - 30 5W - 20		
		10.7	Below Zero	5W	5W - 20		
Engine Serv	ice Requirement (MM	, MS, etc.)		S			
EN	IGINE—EXHA	UST SYS	TEM				
Type (single, single with cross-over, dual, other		er, dual, other	Single With Cross-over		Dual		
Muffler No straight thru	. & type (reverse flo , separate resonator)	w,	One-Reverse Flow		2-Reverse Flow		
Exhaust pipe	dia. (O.D., Branch		2.00 x .075		Not Used		
wall thickn	ess) Main		2.25 x .075	$2.25 \times .075$			
Tail pipe di	ameter (O.D. & wall	thickness)	2.00 x .055 (Aluminized)				
EN	IGINE—CRAN	KCASE	VENTILATION SYSTEM				
Type (venti	ates to atmos.,	Standard	Inducti	on System			
induc	tion system, other)	Optional	N	one			
	Make and mode!			ype CV273	. 1965004		
	Location		Push	Rod Cover			
Control	Energy source (mani vacuum, carburetor stream, other)		Manifo	ld Vacuum			
unit	Control method (var orifice, fixed orific other)		Variable Orifice				
Discharges (to Intake manifold, carb. air intake, air cleaner intake, other		e	Intake Manifold				
Complete system	Air inlet (breather o carburetor air clean other)		Breather Cap				
	Flame arrestor (scree check valve, other)	en,	Check Valve				

MAKE O	F CAR _	PONTIA	MODEL YEAR 1963 DATE ISSUED 9-12-62REVISED (+)			
MODEL=			CATALINA STAR CHIEF BONNEVILLE GRAND PRIX			
E	NGINE-	-FUEL SYSTEA	(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)			
Induction to	ype: Carbu upercharger	retor, fuel	Carburetor			
Fuel	Capacity	(gals.)	25 (a)			
Tank	Filler location		Left Rear Fender			
	Type (elec, or mech.)		Mechanical			
Fuel Pump	Locations	0.100	Left Front of Engine			
	Pressure re	ange	5. 25 - 6. 50			
Vacuum boo	ster (std., c	optional, none)	None			
Fuel	Туре	(5) (5)	Plastic Fabric in Tank & Disposable Pleated Paper Above Pump			
Filter	Locations		(See Above)			
	Choke typ	pe	Automatic - Integral			
Carburetor	Intake ma (exhaust o	nifold heat control or water)	Exhaust			
	Air clnr.	Standard	Oiled Metallic Element			
	type	Optional	Oiled Plastic Foam Element			

CARBURETOR SUPPLEMENTARY INFORMATION

H. D. F. H.	Engine	7	Carbureto	rs	No. Used	Barrel
Model Usage	Displ. Transmission		Make	Model	and Type (b)	Size
23 & 26	389	Synchromesh	Rochester	7023066	One	1.438
All with Economy Opt.	389	Hydramatic	Rochester	7023063	One	1.438
23 & 26	389	Hydramatic	Rochester	7023060	One	1.688
28 & 29 Std., 23 & 26 Opt	389	Synchromesh	Carter	AFB 3479S	One	(c)
29 Std. & 23 Opt.	389	Hydramatic	Carter	AFB 3326 SA	One	(c)
28 Std. & 26 Opt.	389	Hydramatic	Carter	AFB 3300 SA	One	(c)
All 3-2 Bbl. Carb. Opt.	389	SM & HM	Rochester	7013063	1-Front	1.688
All 3-2 Bbl. Carb. Opt.	389	Synchromesh	Rochester	7023075	1-Center	1.438
23 & 29 3-2 Bbl. Caib. Opt.	389	Hydramatic	Rochester	7023073	1-Center	1.438
23 & 28 3-2 Bbl. Carb. Opt.	389	Hydramatic	Rochester	7023077	1-Center	1.438
All 3-2 Bbl. Carb. Opt.	389	SM & HM	Rochester	7013065	l-Rear	1.688
All HO 3-2 Bbl. Carb	421	SM & HM	Rochester	7023078	l-Front	1.688
All HO 3-2 Bbl. Carb	421	Synchromesh	Rochester	7023161	1-Center	1.438
All HO 3-2 Bbl. Carb	421	Hydramatic	Rochester	7023162	1-Center	1.438
All HO 3-2 Bbl. Carb	421	SM & HM	Rochester	7023079	l-Rear	1.688
All HO 4-Bbl. Carb.	421	Synchromesh	Carter	AFB 3574 S	One	(c)
All HO 4-Bbl. Carb.	421	Hydramatic	Carter	AFB 3545 S	One	(c)

⁽a) 19 on station wagons

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⁽b) All downdraft type

⁽c) 1.438 primary, 1.688 secondary

MAKE O	F CAR_	PONTIAC	MOD	EL YEAR 19	63_DATE	ISSUED 9-12-62	REVISED(•)			
MODEL			CATALINA	STAR	CHIEF	BONNEVILLE	GRAND PRIX			
		COOLING SY	STEM							
Type system atmospheric	(pressure, p	ressure vented,			Pressu	re Vented				
Radiator cap	relief valv	e pressure	14 to 17 PSI							
Circulation thermostat	Type (chol Starts to o		Choke 180°F.							
		rrifugal, other)	Centrifugal							
	Number of	000 pump rpm	14							
Water pump		pelt, other)			One V-B					
0.02.025	Bearing ty		V-Belt Sealed Ball Bearing							
By-pass recirculation type (internal, external)				Inter						
Radiator core type (cellular, tube and fin, other)				3000	Tube as	nd Center				
Cooling	With heate	er (qt.)			19.	5				
system capacity	Without he	eater (qt.)		Heat	er Std.	Equipment				
		ment-specify (qt.)			-					
		h of cylinder (yes, no)			Ye					
water all ar	Vater all around cylinder (yes, no) Number and type		Yes One - Molded							
	Lower	(molded, straight)	1.75							
Radiator		Number and type (molded, straight)	One - Molded							
hose	Upper	Inside diameter	1.75							
	By-pass	Number and type (molded, straight)	None - Integral							
	ру-разз	Inside diameter	Hose Not Used							
	Number of	blades & Spacing	Four - 76° and 104° (1)							
_	Diameter				19.0					
Fan	Ratio-fan Fan cutout	to crankshaft rev.	Eluid Clutch T			(2)				
	Bearing typ	··	Fluid Clutch-1			olled (with Air C	ona. Opt.)			
	Fan		A	A & E		C & E	C & F			
*Drive	Generator		A	A		C	C			
belts (indicate	Water Pum		A	A & E		C & E	C & F			
belt used	Power Stee			В			F			
by letter)	Air Condit	ioning				D .	D			
* Drive Bel	Dimensions	A	В	C ¹	D	E	· F			
Angle of	/	36°	36°	36°	36°		. 36°			
	ength (SAE)	56.8	61.0	56.0	58.5		62.0			
Width		. 38	.47	. 38	. 47	. 38	.47			

⁽¹⁾ Special fan used on air conditioned cars is 7 blade design.

^{(2) 1.13:1} with air conditioning.

MAKE O	F CAR	PONTI	ACMODI	EL YEAR 1963 DAT	E ISSUED 9-12-62 R	EVISED <u>(•)</u>			
MODEL_	560		CATALINA	STAR CHIEF	BONNEVILLE	GRAND PRI			
	ELECTRI	CAL-SUPPL	Y SYSTEM			¥			
	Make and	Model	Del	co 458 (a) or 558	3 (b)	Delco 558			
	Voltage Rt	g. & Total Plates	12 &	54 (a) or 12 & 6	6 (b)	12 & 66			
-11	SAE Design	nation & Amp Hr. Rtg	2 SMB-5	3 (a) or 2 SMD-6	61 (b)	2 SMD - 61			
attery	Location		Under Hood - Left Side						
	Terminal g	rounded	Negative						
	Make				o-Remy				
e	Model	98.00 0			21 with Air Cond.				
enerator	Туре		3		(52 Amp with Air	Cond.)			
	Ratio-Ge	en, to Cr/s rev.		2.49:1 (2.85:	l with Air Cond.)	## ## ## ## ## ## ## ## ## ## ## ## ##			
	Gen. cut-in (hot) —engine rpm		0 00	Charge	at Idle				
	Make			Delco-l	Remy				
	Model			11195	11				
	Туре		NAMES OF THE DESCRIPTION OF THE PERSON OF TH	Voltage 1	Regulator				
egulator	Cutout relay	Closing voltage @ generator rpm		None					
		Reverse current to open		None	3				
	Regu-	Voltage	14.3 V						
	lated	Current		Not Regul	ated				
	Voltage	Temperature		125° Ambient A	Air at Regulator				
	test con-	Load		10 Am	ps.				
2	ditions	Other							
14.00	ELECTR	ICAL-START	ING SYSTEM		V				
	Make			Delco-R					
	Model			1107791 (a) or	1107781 (b)				
	Rotation (end view)		Clockwise						
	Engine cro	anking speed		Not Availa	ble				
itarting	Test condi	tions	Room Temperature						
notor		Amps		Lock Test Not F	Recommended				
	Lock test	Volts							
	1031	Torque (lb. ft.)				780-39 37 033 4			
	No	Amps (d)	65 - 100	with 1107791, 8	0 - 120 with 11077	781			
	load	Volts		10.6					
	test	RPM (min.)	3600-5100		4700-5400 with 11	07781			
	Switch (so	olenoid, manual)		Solenoid					
	Starting	s+	Place gearshi	ft lever in Neutr	al and depress clu	itch*.			
Motor control	procedure		Place gearshift lever in Neutral and depress clutch*. Depress accelerator pedal to floor once and release (with cold engine) - Hold accelerator pedal about half way down (with warm engine). Turn ignition key to right to engage starter, release as soon a						
			engine starts.	195					

(a) With Regular Fuel (8.6:1 C.R.) Engines.

(b) With Premium Fuel (10.25:1 or 10.75:1 C.R.) Engines.

(c) Without solenoid.

* With Hydra-Matic use "Neutral" or "Park" (no clutch).

Form Rev. 3-62

MODEL_			CATALINA STAR CHI	EF BO	NNEVILLE GRAND PRI				
EL	ECTRIC	AL-STARTIN	IG SYSTEM (cont.)						
	Engagemen	it type	Sliding Gea	r - Overr	unning Clutch				
Motor	Pinion mes	hes (front, rear)		Front					
Drive	Number	Pinion		9					
		Flywheel		166					
-	Flywheel f	ooth face width		. 40					
EL	ECTRICA	AL—IGNITIO	N SYSTEM	E.					
	Make		Delco-Remy						
Coil	Model		1115133						
	Amps	Engine stopped		3.4					
	Engine idling Make			2, 1					
	Make	24010		elco-Rem					
		Start (rpm)	1110997 (a)	or	1110996 (b) 650				
	adv. in crankshaft degrees@ enginerpm	Sidir ((piir)	700		050				
		Intermediate points deg.@rpm	12-16 @ 2100	1	14-18 @ 2000				
N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		Max deg. @ rpm	18-22 @ 3600		16-20 @ 2850				
Distributor	adv. in crankshaft degrees@ in. Hg.	Start (in Hg)	6 to 8		8 to 10				
		Intermediate points, deg@in Hg	None		None				
		Max. deg. in. Hg.	20 @ 13 to 15		20 @ 15 to 17				
	Breaker gap (in.)		. 016						
	Cam angle (deg.)		30° + 2°						
		m tension (oz.)	19 to 23						
		deg. @ rpm.		t Hot Idle	1000				
	Mark loca	POTITIES I		kshaft Pu	lley Hub				
riming .	(see page	umbering system 2)	L. Bank 1-3 R. Bank 2-4		ront to Rear)				
		er (see page 2)		4-3-6-5-7					
	Make and			AC 45S					
Spark									
park Plug	Thread (mi		W4427 - 12-71 - 2004	14 MM					
	Gap	torque (lb. ft.)		15-25					
	Conductor	type	117711111	33038 nized Thre					
Cable	Insulation			oprene	eat				
F	Spark plug			Rubber Bo	oot				
E	LECTRIC	AL-SUPPRE	SSION						
195			Carbonized thread core se	condary c	ables on all come. Voltori				
					9				
Locations	& type		regulator condenser plus gengine to frame & 1 frame radio.						

- (a) With Regular Fuel (8.6:1 C. R.) Engines.
- (b) With Premium Fuel (10.25:1 or 10.74:1 C. R.) Engines.

		CATALINA	STAR CHIEF	BONNEVILLE	GRAND PRIX				
MANUFACTURE OF THE PARTY OF THE				DOMNE VILLE	GRAND PRIX				
	ELECTRICAL-IN	STRUMENTS AN							
Speed-	Make		AC						
ometer	Trip odometer (yes, no)		No	100					
Charge indi		Ammeter Table Table (National Control of the Contro							
	indicator—type	Tell-Tale Lights (Hot & Cold) Std Gage Optional							
	indicator—type	Tell-Tale Light Std Gage Optional							
Fuel indicat	or-type	Electric Gage							
Other				with SM Trans. Se	parate				
		Option on all of							
Ignition switch	Identify positions in order and cir- cuits controlled	Vertical - "Off Clockwise - 40"	o from vertical - Is	sory Circuits on. movable in this pos gnition and Accessor gnition and Starter (ry Circuits on.				
	Provision for illumination		Yes						
	Location	Left Center of Instrument Panel							
		2011 Control of Institutions I alies							
Main light— ing switch	Identify positions and lamps controlled	Forward position - off 1st position - Instrument, Parking, Tail and License lights. 2nd position - Instrument, Head, Tail and License lights. Clockwise rotation turns off Dome Light and dims Instrument Lights to "off".							
Other light witches	Locations and lamps controlled (Std. Car) - For Accessory Switches - See Supplement Page 12-A								
Other switches	vices controlled	(See Supplemen	at Page 12-A)						
	Make		Delco Ap	pliance					
Windshield	Туре		Electr	ic					
wiper	Vacuum booster provision		None						
	Washer provision		Yes						
	Туре		Soleno	id	THE RESERVE THE PARTY OF THE PA				
Horn	Number used		Two						
	Amp draw (each)		8 to 11 Amp	s. @ 12.5 V					

MAKE OF CAR_

PONTIAC

MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED (e)

SUPPLEMENTARY INFORMATION

MODEL

CATALINA, STAR CHIEF, BONNEVILLE AND GRAND PRIX

SWITCH LOCATIONS

ACCESSORY LIGHT SWITCHES:

Back-Up Light - on lower end of steering column - combined with neutral safety switch on Hydramatic cars (at transmission on cars with 4-speed SM trans.).

Luggage Compartment and Utility Lamp - on lamp mounting bracket.

Glove Compartment Light - on instrument panel behind compartment door.

Parking Brake Signal - on parking brake pedal arm.

Ash Tray Light - controlled by main light switch.

Courtesy Light - manual at center of instrument panel - automatic on front door frames.

Spot Light - on LH or RH end of instrument panel.

OTHER SWITCHES:

Radio - at center of instrument panel.

Power Antenna Motor - right center of instrument panel.

Rear Seat Speaker - left center of instrument panel.

Heater Blower Motor - control panel on right of steering column.

Air Conditioning Blower Motor - control panel on right of steering column.

Windshield Wiper Motor - on instrument panel left of steering column.

Windshield Washer - on wiper switch knob.

Safeguard Speedometer - on instrument panel below odometer.

Power Seat Position Selector - LH end of seat.

Neutral Safety Switch - on lower end of steering column (Hydramatic only).

Underhood Light - in engine compartment on LH side of dash.

Power Window Regulators - on each door trim pad - master switches on left front door.

MAKE O	F CAR	PONTIAC	MODEL YEAR_	963	DATE ISSUED 9-12-	62 REVISED	(•)
MODEL_		CATALINA	STAR CHIEF	В	ONNEVILLE	GRANI	D PRIX
		AL-LAMP BULBS					
Give quant Indicate ac	tity used and tr cessories which	ade number, e.g., Headlamp are not standard equipment	2-5400 S, dual headlight 2- t by an asterisk following the	4001, 2-4 numbers.	.002,	•	
Headlamps	& arrangement	2 #4001, 2 #40	002 Vertical	Α.	ir Cond. Panel I	ight 1	#1895*
Headlamp beam indicator		1 #57 (5)			ydra-Matic Shift		1 #57*
Parking		2 #1034			sh Tray & Light		2 #53*
Tail		2 #1034			arking Brake Sig		1 #57* (
Stop		Same as #1034	Tail Light Bulbs		afeguard Speedor		
	Front	Same as Parki	ing Light		Low Fuel Warn	ing Light	1 #55*
Direction signal	Rear	Same as Stop	Light	U:	nderhood & Utili	ty Light	1 #93*
	Indicator	2 #57 (5)		L	uggage Compart	ment	1 #1003
License pla	ite	1 #67		T	achometer Light		1 #57 (4
Instrument		4 #57 (1) (5)					
Ignition los	ck	1 #53		Lista and the second			
Back up		2 #1073*					
Dome		1 #1004 (3)			2 22 121 1230		
Clock		2 #57 (2) (5)					
Radio		1 #57* (5)					
Glove com		1 #57*				12010	
	Tell-Tale						
	Tell-Tal						
	sy Light		Catalina Convert	ible, .	All Bonneville &	GP opt. o	n others
Compa	ss Light	1 #53*	····				
Heater		1 #57					
	od Light				Court War and The Court of the		
Spot Li		1 #4404*					
		1 #57 (5)			<u> </u>		
Eng. T	emp. Gag	e 1 #57 (5)					
				•			

- (1) 6 on Bonneville and Grand Prix models.
- (2) 26, 28 and 29 std. equipment and 23 Accessory Clock.
- (3) 2 #90 on Star Chief, Bonneville and Grand Prix Hardtops.
- (4) Tachometer standard on Grand Prix with SM trans. optional on all other models.
- (5) Special bulb #1895 used on cars with optional Air Conditioning.

MAKE OF C	AR	PONTL	AC .	AODEL YEAR	1963 DA	TE ISSUED 9-12	2-62 REVISE	D (•)
9							passares is as	1500 200 Sente detecto seneceo
MODEL		CATAI	INA ! ST	AR CHIE	F BO	NNEVILLE	GRAN	D PRIX
		-	& CIRCUIT B				¥	9
Use trade num	ber of fuse, e	.g., SFE-10.	Indicate circuit bre	aker by ampere	capacity suffix	ed by letters "C.B.", er for all units protect	e.g., 30 C.B.	Where fuse or use or circuit
breaker, e.g.,	Parking lamp	SFE-10 (a),	Direction indicator so	ame as (a).				
Headlamp		22 C. I			Compart		Same	as
Headlamp bean	n indicator	Same a				gnal Light	20 Fu	
Parking lamp		Same a			y & Light		14 Fu	
Tail lamp			14 Fuse (b)			Panel Light	Same	
Stop lamp		14 Fus	그는 그 그는 그 그는		Same			
		Same a	10000000	Underhood & Utility Light Safeguard Speedometer		Same		
		Same a	s (b) (d)	Sateguar Power A	d Speedor	meter	Same 14 Fu	
Instrument lam Ignition lamp	P	4 Fuse Same a		Cigar Li			See N	
		25 Fus			eld Washe	·····	Same	
		14 Fus				r & Blower Mo		se AGC
· · · · · · · · · · · · · · · · · · ·		14 Fus			Vindow Re		40 C.	
Clock Clock Iamp		Same a			eat Motor		Same	
		2. 5 Fu			eter Light			e (in line
Glove compartment lamp		Same a		Compass		<u> </u>	Same	
Radio Dial Light		Same a		Dame	40			
Windshie		Same a		1				
Courtesy		Same a					9-30	
Heater P		Same a	s (d)					
Heater B		20 Fus						****
Spot Ligh	ıt	14 Fus					999	
nderhood		Same a	81 PM (18 N 7 / 2			5:		
*			*****					
		323340 111						
EI	ECTRICA	1-100/	TION OF OU	ITSIDE I A	M D C	2639, 2839	7	
	LCIRICA		710N OF OU	67 & 69 Z		2669, 2847, 2		
	Tail	Lowest	30.9		31.8	31.0	32. 5	27.4
		Highest	30.9		31.8	31.0	32. 5.	27.4
4-1-64 -6	Stop		30.9		31.8	31.0	32.5	27.4
leight above tround to	Backup		16.6		16.5	16.7	17.3	15.8
enter of bulb	License, rea	7	21.9		22.0	22.0	22.8	21.1
(At curb	Directional	Front	18.0	. i	18.3	17.9	18.1	27.1
load)		Rear	30.9		31.8	31.0	32.5	27.4
		owest	25.1	<u>-</u>	25.5.	25.0	25.2	24.4
	177	ighest	31.4		31.8	31.3	31.5	30.7
	Toil	Inside			36.2			30 0
	Ct.	Outside				.,		29.8
Sistance from	Stop				ame as Ta	211	4	
/L of car to	Backup				31.6	• • • • • • • • • • • • • • • • • • • •		
enter of bulb	License, rea			0.3	Left of C	enter		25.2
	Directionc	Front	100.000	F0 (10)	27.7			25.0
		Rear		Sa	ame as Ta	ail		
	Headlamp	Inside Outside*			34.1.			<u> </u>
					34.1.			

^{*} If single headlamps are used enter here.

^(#) Optional Lighters - one uses attached fuse, the other has integral C. B. Form Rev. 3-62

MAKE OF	CAR_	PON	TIAC M	ODEL YEAR 1963	DATE ISSUED9-12-62	EVISED (+)			
MODEL			CATALINA	STAR CHIEF	BONNEVILLE	GRAND PRIX			
DR	IVE UN	NITS-CLU	TCH (Manual Tr	ansmission)		3			
Make & typ	е		Own -	Dry	Borg & E				
Type pressure	e plate sprin	nas	Disc		Semi-Centrifugal - Dry Coil				
Effective pla			2000		2360				
No. of clutch driven discs			200		'	-			
	Material		One Woven Molded Asbestos						
	Outside & inside dia.		10.4 - 6		10, 5 - 6.	5			
Clutch	Total eff. area (sq.in.)		85.56		88.62				
facing	Thickness	3,55 (54,111)	. 140		.135				
		nt cushion- d	2 7	101 1 20 20 007733020 :	Driven Plate Spokes				
Release bearing	Type & me of lubrical			Thrust - Prepac					
Torsional damping	Methods: friction			Coil Springs Fi					
DR	IVE UN	NITSTRA	NSMISSIONS						
Manual (st	d. or opt.)		3-Speed Standard - 4-Speed Optional						
C. C. C. C. C.		(std. or opt.)	Not Offered						
Automatic (s	td. or opt.)		Optional						
DR	IVE UN	IITS-MA	NUAL TRANSMI	SSION					
Number of f	orward spee	ds	Three-Standar	·d* (a)	Three - Standard	1 (a)			
	In first		2.47:1*		2, 49:1				
2 5 43	In second		1.53:1*		1.591				
Transmission ratios	In third		1.00:1*		1.00:1				
rarios	In fourth		None*		None				
	In reverse		2.63:1*		3, 15:1				
Synchronous	meshing, sp	ecify gears		Second	& Third				
Shift lever	location			On Steerin					
	Capacity	(pt.)	1.8 Refill		2.8 Refill				
	Туре гесо		1. U Kerut	Type A - Ex	treme Pressure				
Lubricant		Summer							
Looricani	JAL VIST		80 or 90 80 or 90						
	SAE vis- cosity number	Winter							

- * Optional heavy duty 3-speed transmission available on Catalina Model conforms to specifications shown for Star Chief, Bonneville and Grand Prix Models.
- (a) Four-speed transmission (with all forward gears synchronized and floor mounted shift lever) optional on all cars.

 Gear Ratios: 1st. 2.54:1, 2nd, 1.92:1, 3rd. 1.51:1, 4th. 1.00:1, Rev. 2.61:1, used with 389 cu. in. engines, gear ratios: 1st. 2.20:1, 2nd. 1.64:1, 3rd. 1.31:1, 4th. 1.00:1, Rev. 2.26:1 used with 421 H.O. engine options.

 Lubricant Capacity 2.5 pts. EP 80 or 90 all seasons.

netary or other) nekout (yes, no) accelerator control (yes, no) cut-in speed cacity (pt.) (Overdrive only) arate filler (yes, no) a recommended vis- ty ber Summer Winter Ext. cold NITS—AUTOMATIC Other)	None					
netary or other) sckout (yes, no) acelerator control (yes, no) cut-in speed cacity (pt.) (Overdrive only) arate filler (yes, no) a recommended vis- ber Winter Ext. cold NITS—AUTOMATI other) Pattern and d in each (2)	None					
acclerator control (yes, no) accelerator control (yes, no) cut-in speed control (pt.) (Overdrive only) conte filler (yes, no) a recommended vis- ty ber Winter Ext. cold NITS—AUTOMATION other) Pattern and d in each (A) ive range drive range of elements	None					
cut-in speed coacity (pt.) (Overdrive only) crate filler (yes, no) correcommended vis- ty ber Winter Ext. cold WITS—AUTOMATION other) Pattern and d in each (A) ive range drive range felements	None					
acity (pt.) (Overdrive only) arate filler (yes, no) a recommended vis- ty ber Winter Ext. cold NITS—AUTOMATION ather) Pattern and d in each ive range drive range felements	None					
acity (pt.) (Overdrive only) arate filler (yes, no) a recommended vis- ty ber Winter Ext. cold NITS—AUTOMATION other) Pattern and d in each ive range drive range of elements	None					
arate filler (yes, 'no) a recommended vis- ty ber	None					
s recommended vis- ty ber Ext. cold NITS—AUTOMATION other) Pattern and d in each (2) ive range -drive range f elements	None					
wise Winter Ext. cold NITS—AUTOMATION other) Pattern and d in each (2) ive range drive range f elements	None None None					
Winter Ext. cold NITS—AUTOMATION other) Pattern and d in each (2) ive range drive range f elements	None Hydra-Matic Fluid Coupling with Planetary Gears Lever					
other) Pattern and d in each (2) ive range — drive range of elements	Hydra-Matic Fluid Coupling with Planetary Gears Lever P - N - DR - L - R DR DR L R DR DR L R 2.97:1 2.97:1 2.97:1 2.49:1 3.97:1 3.97:1 3.97:1 3.74:1 1.56:1 1.56:1 1.56:1 1.55:1 1.55:1 1.55:1 1.55:1 1.00:1 1.55:1 1.55:1 1.55:1 1.00:1 1.55:1 1.55:1 1.55:1 1.00:1 1.55:1 1.55:1 1.					
Pattern and d in each (A)	Hydra-Matic Fluid Coupling with Planetary Gears Lever P-N-DR-L-R DR DR L R DR DR L R 2.97:1 2.97:1 2.97:1 2.49:1 3.97:1 3.97:1 3.97:1 3.74:1 1.56:1 1.56:1 2.55:1 2.55:1 2.55:1 1.00:1 1.55:1 1.55:1* 1.00:1 1.00:1**1.00:1*** 75 - Full Throttle					
Pattern and d in each (2)	Fluid Coupling with Planetary Gears Lever P-N-DR-L-R DR DR L R DR DR L R 2.97:1 2.97:1 2.97:1 2.49:1 3.97:1 3.97:1 3.97:1 3.74:1 1.56:1 1.56:1 2.55:1 2.55:1 2.55:1 1.00:1 1.55:1 1.55:1* 1.00:1 1.00:1**1.00:1*** 75-Full Throttle					
Pattern and d in each (2)	Lever P - N - DR - L - R DR DR L R DR DR L R 2.97:1 2.97:1 2.97:1 2.49:1 3.97:1 3.97:1 3.97:1 3.74:1 1.56:1 1.56:1 2.55:1 2.55:1 2.55:1 1.00:1 1.55:1 1.55:1* 1.00:1 1.00:1**1.00:1*** 75 - Full Throttle					
Pattern and d in each (2)	P-N-DR-L-R DR DR L R DR DR L R 2.97:1 2.97:1 2.97:1 2.49:1 3.97:1 3.97:1 3.97:1 3.74:1 1.56:1 1.56:1 2.55:1 2.55:1 2.55:1 1.00:1 1.55:1 1.55:1 1.55:1* 1.00:1 1.00:1**1.00:1*** 75 - Full Throttle					
ive range -drive range f elements	DR DR L R DR DR L R 2.97:1 2.97:1 2.97:1 2.49:1 3.97:1 3.97:1 3.74:1 1.56:1 1.56:1 2.55:1 2.55:1 2.55:1 1.00:1 1.55:1 1.55:1* 1.00:1 1.00:1** 75 - Full Throttle					
ive range -drive range f elements	2.97:1 2.97:1 2.97:1 2.49:1 3.97:1 3.97:1 3.97:1 3.74:1 1.56:1 1.56:1 1.00:1 2.55:1 2.55:1 2.55:1 1.55:1 1.55:1 1.55:1* 1.00:1 1.00:1**1.00:1*** 75 - Full Throttle					
-drive range f elements	75 - Full Throttle					
f elements	40 - Part Throttle, 70 - Full Throttle					
o at stall	3 Converter Not Used					
	1.2 Converter Not Used					
ooling (air, water)	Water					
-refill (pt.) mmended	GM Hydra-Matic Drive Fluid - Type A					
mmenoed	Safety device prevents shifting into reverse at forward					
	speeds that would damage transmission. Shift lever must					
	be lifted over stop to enter "Park" position. Engine starting in "Park" position provided for.					
UNITS—PROPELLE	marce (Marikan emperatus)					
	One					
ube)	Exposed					
nsmission	3.00 x 55.76 3.25 x 61.40 x.062(a)(c) . × .065 3.25x58.96x.065(c)					
transmission	None					
Frt. tube 3 transmission Rr. tube 3	x58. 20x (c) x58. 20x x61. 40x (c)					
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	be) Iransmission Frt. tube 1					

Inter- mediate bearing Universal joints	Type (plair anti-friction Lubrication prepack)	on)	OPELLER	SHAFT	(cont)			io estimato :			
mediate bearing Universal	Lubrication prepack)	on)			(50111.)						
Universal	prepack)	n (fitting,	None								
	Make		None								
						Sagi	naw				
	Number us	ed	Two								
			Cross								
В	Type (plain, anti-friction)		Anti-Friction								
<u> </u>	Bearing	Lubric. (fitting, prepack)		ALCO SE ESPESAS		Pre-	Packed	K			
Drive taken or arms, spri	through (tor ngs)	que tube				A	rms			,	
Forque taker or arms, spri	n through (to ngs)	orque tube			- 400	A	rms				
	DRIVE	UNITS-RE	AR AXLE		M200	31344					
Description	(see instruc	tions)	Semi-Floating Hypoid Rear Axle								
Limited Slip	differentia	l, type				Cam &	Clutch	(Opt.)			
Orive Pinio	n Offset		1, 75								
No. of diffe	erential pin	ions		2-Sto	1 4 w	ith optio	nal Saf	e-T-Tra	ck ur	nit	
	Manual tro	onsmission	3. 23:1								
ear ratios Std. equip.)	Overdrive	transmission	None								
	Automatic	transmission	2.69:1							3.23:1	
Ring gear O	.D. (std. ro	atio)	3 (2) (2) (3)		9.	25 P. D	9.2	70.D.	Accessors		
Pinion adjus	tment (shim	, other)	132		10000	Shir	m				10 0031001000000
inion beari	ng adj. (shi	m, other)				Collapsil	ole Spa	cer		VOE	ALL PROPERTY PARTY NAMED
Wheel beari	- /.				Single	Row B		ring			
	Capacity			190	T-01-30-10-	5. 7					
i gradi i nac	Type reco	т		12	7		Typoid				
Lubricant	SAE vis-	Summer		S(*			0				
	number	Winter					0				
		Extreme cold									
		R	EAR AXL	200	D TOOTI ge 3 for axle r		INATIO	N\$			
Axle ratio			2.56:1	2.69:1	2.87:1	3.08:1	3, 23:1	3.42:1	3.64:	1 3.90	:1 4.30
No. of teeth	Pinion		16	16	15	13	13	12	11	10	10
o.or leen	Ring g	gear	41	43	43	40	42	41	40	39	

MODEL		Windows and the second	CATALIN	A STAR CHIEF BON	NEVILLE	GRAND PRIX		
	DRIVE UN	ITS-WHE						
Type & mat	terial	1		Disc - Ste	eel			
	24°C	Std.		14 x 6K				
Rim (size ar	nd flange type)	Opt.		None				
	Type (bolt or	stud)		Bolt				
Attachment			5. 0					
	Number and s	size	5 - 1/2 - 20					
	DRIVE UN	IITS—TIRE	S					
Standard	Size & ply		-	800 x 14				
(List option below)	Type - Nylon, etc.		Rayon Cord					
Rev/mile at	50 mph.		749 Std.	739 Opt. A		N. A. Opt. B		
Inflation	Front		22 Std.	20 Opt. A	28 Opt. B			
press (cold)	Rear		22 Std.	20 Opt. A		28 Opt. B		
Optional tir	res – size and ply	,	_	Opt. A-Oversize		Heavy Duty		
	res - size and ply			8.50 x 14		Heavy Duty 4 (6 ply rating)		
	BRAKES-	SERVICE		8.50 x 14	8.00 x 1	4 (6 ply rating)		
Type (duo-s	BRAKES—	SERVICE		8.50 x 14 Hydraulic, Internal Expa	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti	BRAKES-	SERVICE		8.50 x 14 Hydraulic, Internal Expansion	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake	BRAKES— servo, disc, bala ng (std., opt., 1	SERVICE		8.50 x 14 Hydraulic, Internal Expa	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in	BRAKES—servo, disc, balang (std., opt., 1 ystem type (single make & type	SERVICE		8.50 x 14 Hydraulic, Internal Expa Standard Single r Bendix Products - Integ	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a	BRAKES— servo, disc, balang (std., opt., 1 ystem type (single make & type tegral, etc.)	SERVICE inced, etc.) N.A.) e, dual, etc.)		8.50 x 14 Hydraulic, Internal Expa Standard Single	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin	BRAKES— servo, disc, bala ng (std., opt., i ystem type (single e make & type tegral, etc.) rea (sq. in.)*	SERVICE inced, etc.) N.A.) e, dual, etc.)		8.50 x 14 Hydraulic, Internal Expa Standard Single r Bendix Products - Integ	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin Swept drum	BRAKES— servo, disc, balang (std., opt., 1 ystem type (single make & type tegrol, etc.) rea (sq. in.)* g area (sq. in.)*	SERVICE Inced, etc.) N.A.) e, dual, etc.)		8.50 x 14 Hydraulic, Internal Expa- Standard Single r Bendix Products - Integ	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin Swept drum Percent bro	BRAKES— servo, disc, bala ng (std., opt., 1 ystem type (single e make & type tegral, etc.) rea (sq. in.)* g area (sq. in.)* n area (sq. in.)* ske effectiveness	SERVICE Inced, etc.) N.A.) e, dual, etc.) sefront		8.50 x 14 Hydraulic, Internal Expa- Standard Single r Bendix Products - Integ 173.7 191 311	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin Swept drum Percent bro	BRAKES— servo, disc, balang (std., opt., 1) ystem type (single make & type tegral, etc.) rea (sq. in.)* g area (sq. in.)* n area (sq. in.)* ske effectiveness Diameter Rec	SERVICE inced, etc.) N.A.) e, dual, etc.) e, drant		8.50 x 14 Hydraulic, Internal Expansion Standard Single r Bendix Products - Integ 173.7 191 311 58.5	8.00 x 1	4 (6 ply rating)		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin Swept drum Percent bro	BRAKES— servo, disc, balang (std., opt., lystem type (single make & type tegral, etc.) rea (sq. in.)* g area (sq. in.)* n area (sq. in.)* pke effectiveness Diameter Type and mate	SERVICE inced, etc.) N.A.) e, dual, etc.) e, drant	Moraine o	8.50 x 14 Hydraulic, Internal Expansion Standard Single r Bendix Products - Integ 173.7 191 311 58.5 11.0 11.0	8.00 x 1	4 (6 ply rating) Anchor acuum Suspend		
Type (duo-s Self adjusti Hydraulic sy Power brake (remote, in Effective a Gross linin Swept drum Percent bro Drum	BRAKES— servo, disc, balang (std., opt., light opt., l	SERVICE inced, etc.) N.A.) e, dual, etc.) e, drant	Moraine o	8.50 x 14 Hydraulic, Internal Expansion Standard Single r Bendix Products - Integ 173.7 191 311 58.5 11.0 11.0 Backed Centrifugally Cast 1.188	8.00 x 1	4 (6 ply rating) Anchor acuum Suspend		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin Swept drum Percent bro Drum Wheel cyl- inder bore	BRAKES— servo, disc, balang (std., opt., l ystem type (single make & type tegrol, etc.) rea (sq. in.)* g area (sq. in.)* n area (sq. in.)* ske effectiveness Diameter Rec Type and mate	SERVICE inced, etc.) N.A.) e, dual, etc.) e, drant	Moraine o	8.50 x 14 Hydraulic, Internal Expansion Standard Single r Bendix Products - Integ 173.7 191 311 58.5 11.0 11.0 3acked Centrifugally Cast 1.188 1.00	8.00 x 1	4 (6 ply rating) Anchor acuum Suspend		
Type (duo-s Self adjusti Hydraulia s Power brake (remote, in Effective a Gross linin Swept drum Percent bro Drum Wheel cyl- inder bore Master cyli	BRAKES— servo, disc, balang (std., opt., 1 ystem type (single make & type tegrol, etc.) rea (sq. in.)* g area (sq. in.)* n area (sq. in.)* ske effectiveness Diameter Rea Type and mate	SERVICE inced, etc.) N.A.) e, dual, etc.) e, drant	Moraine o	8.50 x 14 Hydraulic, Internal Expastandard Single r Bendix Products - Integ 173.7 191 311 58.5 11.0 11.0 31.0 32646 Centrifugally Cast 1.188 1.00 1.00	8.00 x 1	4 (6 ply rating) Anchor acuum Suspend		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin Swept drum Percent bro Drum Wheel cyl- inder bore Master cylii Available p	BRAKES— servo, disc, balang (std., opt., 1 ystem type (single make & type tegral, etc.) rea (sq. in.)* g area (sq. in.)* n area (sq. in.)* ske effectiveness Diameter Fro Type and mate Front Rear nder bare sedal travel	SERVICE inced, etc.) N.A.) e, dual, etc.) e, dual, etc.) inceding the series of the se	Moraine o	8.50 x 14 Hydraulic, Internal Expansion Standard Single r Bendix Products - Integ 173.7 191 311 58.5 11.0 11.0 31.0 3acked Centrifugally Cast 1.188 1.00 1.00 Std 3.40 with Power Britannian Standard Standar	8.00 x 1	4 (6 ply rating) Anchor acuum Suspend		
Type (duo-s Self adjusti Hydraulic s Power brake (remote, in Effective a Gross linin Swept drum Percent bra Drum Wheel cyl- inder bore Master cylii Available p Line pressur	BRAKES— servo, disc, balang (std., opt., 1 ystem type (single make & type tegrol, etc.) rea (sq. in.)* g area (sq. in.)* n area (sq. in.)* ske effectiveness Diameter Rea Type and mate	SERVICE inced, etc.) N.A.) e, dual, etc.) e, dual, etc.) inceding the series of the se	Moraine o Steel F	8.50 x 14 Hydraulic, Internal Expastandard Single r Bendix Products - Integ 173.7 191 311 58.5 11.0 11.0 31.0 32646 Centrifugally Cast 1.188 1.00 1.00	8.00 x 1 nding, Single gral Type, V	4 (6 ply rating) Anchor acuum Suspend (a)		

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept areas for four brakes:

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

(a) Integral aluminum hub and drum with metallurgically bonded alloy cast iron braking surface - optional equipment.

(Continued)

MODEL				CATALINA STAR CHIEF BONNEVILLE GRAND PRI					
	BRAK	ES—SERV	ICE (cont.)					
	Bonded	or riveted		Riveted					
		Material		Molded Asbestos					
	Front Shoe	Size (length x width x	Front	9.29 x 2,50 x ,22					
		thickness)	Rear wheel	$9.29 \times 2.00 \times .22$					
Brake		Segments p	er shoe	One					
lining		Material	12 UK	Molded Asbestos					
	Rear Shoe	Size (length x width x	Front wheel	11.94 x 2.50 x .22					
	Shoe	thickness)	Rear wheel	$11.94 \times 2.00 \times .22$					
		Segments per shoe		One					
	BRAK	ES-PAR	KING						
Type of control				Foot Lever Application - Hand Lever Release					
ocation o	of control			Below Instrument Panel at Left					
Operates	on			Rear Service Brakes					
f sepa-		iternal or exter	nal)	Not Separate					
ate from	Drum di	ameter		Not Separate					
ervice Lining size (length x width x thickness)									
	FRAM	thickness)	ITIZEI	Not Separate CONSTRUCTION					
Type and c	width x	thickness)	ITIZEI						
	FRAM description	thickness)		Perimeter Type - Boxed					
Type and a	FRAM description	thickness) E or UN		Perimeter Type - Boxed					
Type and a	FRAM description	E or UNI		Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension					
Type and a	FRAM description SUSPI	E OF UNI		Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None					
Provision for Pr	width x FRAM description SUSPI for car level for brake dip for acc. sque ovisions for	ENSION-		Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension					
Provision for pr	width x FRAM description SUSPI for car level for brake dip for acc. sque ovisions for	ENSION-		Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension Geometry of Rear Suspension Links					
Provision for Provision for pacial property for packing Shock absorber	width x FRAM description SUSPI for car level for brake dip for acc. squa ovisions for 19 Type Make	ENSION-		Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension Geometry of Rear Suspension Links None Direct Acting - Two Way Delco					
Provision f Provision f Provision f Special proper jackin Shock absorber front & rear	FRAM description SUSPI for car level for brake dip for acc. sque ovisions for ag Type Make Piston d	ENSION- ling o control at control		Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension Geometry of Rear Suspension Links None Direct Acting - Two Way					
Provision f Provision f Provision f Special pr car jackin Shock absorber front & rear	width x FRAM description SUSPI for car level for brake dip for acc. squa ovisions for 19 Type Make	ENSION- ling o control at control		Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension Geometry of Rear Suspension Links None Direct Acting - Two Way Delco					
Provision f Provision f Provision f Special proper jackin Shock absorber front & rear	width x FRAM description SUSPI for car level for brake dip for acc. squa ovisions for y Type Make Piston d cial features	ENSION- ling o control at control	-GEN	Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension Geometry of Rear Suspension Links None Direct Acting - Two Way Delco 1.00					
Provision for formal for formal for formal for formal for formal	width x FRAM description SUSPI for car level for brake dip for acc. squa ovisions for y Type Make Piston d cial features	ENSION- ling p control at control	-GEN	Perimeter Type - Boxed ERAL (See Supplemental page 19 for details on Air Suspension)* None Compound Anti-Dive Control Front Suspension Geometry of Rear Suspension Links None Direct Acting - Two Way Delco 1.00					

				CATALINA S	TAR CHIEF	BONNEVILLE	GRAND PRIX			
SU	SPENS	ION FR	ONT (c	ont.)						
*	Туре	- 2 - 22 - 21			Co					
	Material			SAE 9260						
Spring	bar lengt			10.6 x,4.05 315						
		e (lb. per în	-			**************************************				
		heel (lb. per		90 1950-2000 @ 10.6 2000 - 2050 @ 10.6 1950-2000 @ 10.6						
	1932	ad (lb. @ de	sign neight)	1950-2000 @ 10.	61 2000 - 20	050 @ 10.6	950-2000 @ 10.			
Stabilizer '	frameless)			Link						
	Material	& bar diam	eter	SAE 1080 Steel (a)						
ST	EERING	3		¥						
Mechanical	(std., opt.,	NA)			Stand	dard				
Power (std., opt., NA)					Opti					
Wheel diam	eter	T		17.0 Std., 15,74		15.74 x	16.5 Std.			
	Outside	Wall to wa		46.0	46.9		46.0			
urning liameter	front		rb (1. & r.)	42.8*	43.7		42.8			
Idmeter	Inside rear	Wall to wa		25.5	26.2		25.5			
	reui	Curb to cu	rb (l. & r.)	26.0*	26.6	*	26.0			
Outside whe	el angle wi	ith inside wh	eel at 20°		180					
ůč –		Туре		Recirculating Ball Bearing						
Mechanical	Gear	Make		Saginaw						
Mechanical	Gedi	Ratios	Gear	24:1						
		Karios	Overall	29. 1:1						
	No. whee	l turns		2 328	5, 50					
	Type (cox	cial, linkage	, etc.)		Coaxial					
	Make				Saginaw	7				
	Trade na	me			Power Ste	ering				
	30. **C 36***CO	Туре		Reci	rculating Ball	Bearing				
Power	Gear		Gear		17.5:1					
		Ratios	Overall	-	22.5:1					
	Pump driv	en by		E	Belt from Cra	nkshaft	Will the			
	Number v	vheel turns			4, 25;1					
ď.	Туре			Link Parallelogram						
Linkage	Location of wheels	(front or real		200 - 200 -	Rear of Wheel		3-3-			
		(trans. or lo	anta \	Transverse Strg. Rod Connects Tie Rods, Pitman & Idler Arm						
		one or two)	rigit./	Transverse our	Two	ts Tie Rods, Fittin	an & luier Arm			
Sta	ation V	Vagons	8125		Chief and Bo	(Continued) all Catalina Mod onneville models				
				which is as follow		Wall to Wall	Curb to Cur			

Inside Rear

25.3

25.8' Form Rev. 3-62

MAKE OF	CAR	PC	NTIAC	MODE	L YEAR.	1963 DATE I	SSUED 9-12-62RE	VISED (+)
MODEL_				CATAL	INA	STAR CHIE	F BONNEVILL	E GRAND PRIN
ST	EERING	(cont)					
Steering	Inclination	n at camber	(deg.)			4º 50' (0 0 Camber	
Axis	122	Upper				Ball	Joint	
	Bearings (type)	Lower	46.				Joint	
		Thrust				Thrust Take	n by Lower Bal	ll Joint
	Caster (de	g.)				1-1/2° 1	Negative <u>+</u> 1/20)
Wheel alignment (range and	Camber (d	eg.)				1/4° P	ositive ± 1/2°	
preferred)	Toe-in (ou inches)	itside tread		0 to .	125 To	e-In Measure	ed 9 In. Above	Floor
Steering sp	indle & joir	nt type				Reverse 1	Elliott - Ball Jo	oint
Wheel		Inner bearing					249	
spindle	Diameter	Outer bearing	8e0106, 12-35				749	
1	Thread siz	ė				3/4	- 20	NII
	Bearing ty	pe				Taper	Roller	
SU	SPENS	ION-F	REAR					
Type and d	escription				-	Four Link P	ivoted Control	Arm
Drive and t	orq. taken	through (see	page 17)				ol Arms	
	Туре				4. 52		Coil	
	Material					SAI	E 9260	
	Size (leng and I.D.;	th x width, bar length ô	coil design height k dia.)		=	.7.84	x 5.50	6:
- 1	Spring rat	e (lb. per in	1.)	122 (1)		135	(1)	122 (1)
Spring	Rate at w	neel (lb. pe	r in.)	110 (1)	1	122	(1)	110 (1)
37 5375	Design loa	ad (1b. at de	esign height)	955-995(1) 100	-1040 (1)	1040-1080 (1)	875-915 (1)
	Mounting	insulation t	уре			Rubbe	r	
		No. of le	aves			None		5)
	lf	Inserts	Type and size			None		
	leaf		Material			None	44	
		The confidence in	comp. or tens.)			None		
Stabilizer		, linkless,	frameless)			None		
	Material					None	,	
Track bar	type			1		Not Use	1	

(1) Figures apply to 4-door Sedans and Grand Prix Coupe - specifications for other models vary to compensate for different loading.

MAKE OF CAR_____

PONTIAC

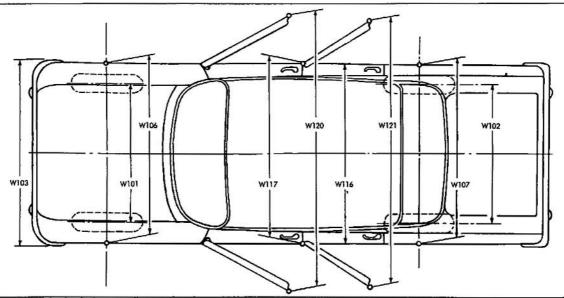
MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED (.)

CAR AND BODY DIMENSIONS-GENERAL

NOTE: Included in the dimension definitions listed on pages 34-36 are those which have been adopted by SAE. These are indicated by a number following the type of dimension, e.g., L3. Additional dimensions have been added by the AMA Specifications Review Committee. These are shown by an additional letter, e.g., H67a. The symbol "a" has been added as a suffix to denote a dimension adopted by the AMA and submitted to the SAE for approval. The dimensions are developed from the following basic points:

- 1. Body dimensions are for all body styles.
- 2. All interior dimensions are taken with manikin 15.0 inches outboard of car centerline unless atherwise stated.
- 3. All interior dimensions are measured with the front seat in the lowest and rearmost position.
- 4. Unless otherwise specified, all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
- 5. The SAE manikin with 90th percentile leg length will be used for recording purposes.
- 6. The H Point is the pivot center of the manikin's torso and thigh.
- 7. The Torso Line is a line parallel to the small of manikin's back and extending through the H Point.

EXTERIOR WIDTH DIMENSIONS



MODEL	Ref.			CATA	ALINA			
MODEL	No.	2369	2311	2347	2339	2367	2335	2345
Tread - front	W101			8.01	62.5			
Tread - rear	W102				64.0			
Maximum overall car width	W103				78.7			
Maximum overall body width	W116	78	. 3	78.2	78.3	78.2	78	. 3
Maximum body width at #2 pillar	W117	75.9	-	_	75.9	_	75	. 9
Front fender overall width	W106				77.7			-05000-3
Rear fender overall width	W107	78	. 2	78.2	78.2	78. 2	78	. 2
Maximum overall car width – front doors open	W120a	144.1	162.1	156.3	144.1	156.3	141	. 4
Maximum overall car width – rear doors open	W121a	139.6		2000	N.A.		140	. 2

MAKE OF CAR PONTIAC

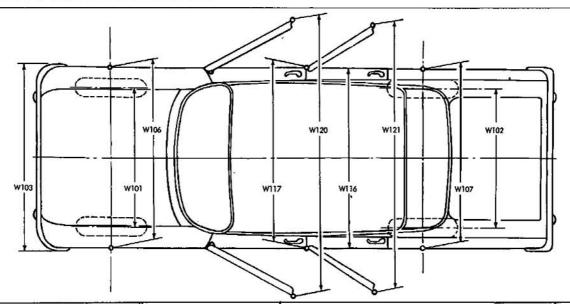
MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED (+)

CAR AND BODY DIMENSIONS—GENERAL

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- 3. All interior dimensions are measured with the front seat in the lowest and rearmost position.
- 4. Unless otherwise specified, all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
- 5. The SAE manikin with 90th percentile leg length will be used for recording purposes.
- 6. The H Point is the pivot center of the manikin's torso and thigh.
- 7. The Torso Line is a line parallel to the small of manikin's back and extending through the H Point.

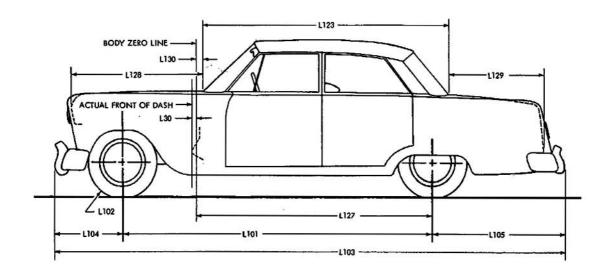
EXTERIOR WIDTH DIMENSIONS



wasan Aras	Ref.	STAR	CHIEF		BONNEV	/ILLE		GRAND PRIX
MODEL	No.	2669	2639	2839	2847	2867	2835	2957
Tread - front	W101				62.5			
Tread - rear	W102		21230270 - F		64.0			
Maximum overall car width	W103			15.70	78.7		*	
Maximum overall body width	W116		78.3	destina-	78.	2	78.3	78.2
Maximum body width at #2 pillar	W117	241 3152544.0-	75.9		_		75.9	
Front fender overall width	W106				77.7			
Rear fender overall width	W107		78.2		78.	1	78.2	78.2
Maximum overall car width - front doors open	W120a		144.1	1000	156.	3	141.4	156.3
Maximum overall car width - tear doors open	W121a	139.6	N.A.	N.A.	N.A.	N.A.	140.2	N. A.

MAKE OF CAR PONTIAC MODEL YEAR1963 DATE ISSUED 9-12-62REVISED(*)

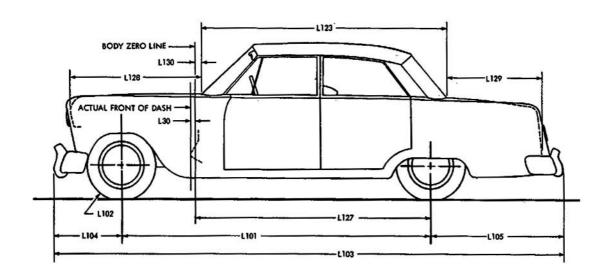
EXTERIOR LENGTH DIMENSIONS



MODEL	Ref.			CAT	ΓALINA			
WODEL .	No.	2369	2311	2347	2339	2367	2335	2345
Body zero line to actual front of dash	L30				. 54			
Wheelbase	L101			120.0			11	9.0
Overhang – front	L104			The Carlot St.	35.9		101	
Overhang – rear	L105			# 15 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1 ± 1	56.0		5	6.70
Overall length	L103			2. 7/19/93	211.9		21	1.6
Hood length at car centerline	L128a	24			53.4		——————————————————————————————————————	¥4 - 10-
Body upper structure length at car centerline	L123	10	3.3	103.4	106.0	105.9	14	1.5
Deck length at car centerline	L129a	4	9.0	48.8	46.	3	-	
Body zero line to centerline of rear wheels	L127		•	101.5			10	0.50
Body zero line to windshield cowl point	L130a		4. 1	4.2	4.1	4.2		3.9
Tire size	L102	10		8.00 x 14			8.50 x	14

MAKE OF CAR PONTIAC MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED(*)

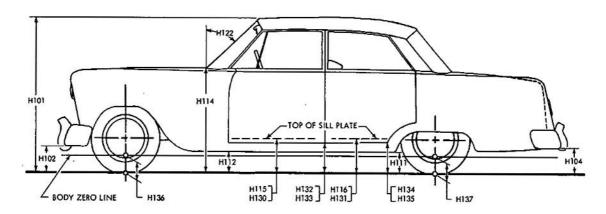
EXTERIOR LENGTH DIMENSIONS



MARK	Ref.	STAR	CHIEF	ВО	NNEVIL	LE		GRAND PR
MODEL	No.	2669	2639	2839	2847	2867	2835	2957
ody zero line to actual front of dash	L30				. 54			
Wheelbase	L101			34949	123.0		119.0	120.0
Overhang – front	L104				35.9			
Overhang – rear	L105		60	. 0			56.7	0 56.0
Overall length	L103		218	. 9			211.6	211.9
Hood length at car centerline	L128a				53.4			
Body upper structure length at car centerline	L123	103.3	106.0	106.0	103.4	105.9	141.5	102.7
Deck length at car centerline	L129a	56.0	53	. 3	55.7	53.3	_	49.6
Body zero line to centerline of rear wheels	L127		104	. 5			100.5	101.5
Body zero line to windshield cowl point	L130a		4. 1		4.	2	3.9	
Tire sizė	L102		8.	00 x 14			8.50	8.00 x

MAKE OF CAR PONTIAC MODEL YEAR 1963 DATE ISSUED9-12-62REVISED (6)

EXTERIOR HEIGHT DIMENSIONS



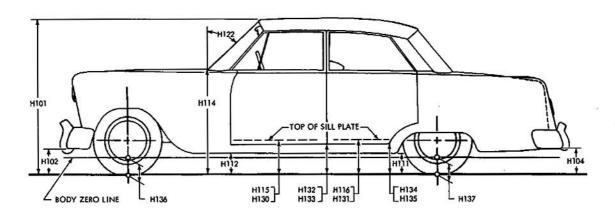
MODEL	Ref.				CATALIN	IA		
MODEL	No.	2369	2311	2347	2339	2367	2335	2345
Overall height	H101	55	. 2	54, 1	54.4	55.1	56	. 5
Hood at rear to ground	H114		37	. 5		37.3	38	.0
Rocker panel to ground – front	H112a		8	. 6		8.5	9	. 2
Rocker panel to ground - rear	нии		8	3. 2		8.1	8	. 8
Step height – front (design load)	Hi 15				N. A.			
Step height – rear (design load)	H116				N. A.	}		116 104.0
Step height – front (curb load)	H130				N. A			
Step height – rear (curb load)	H131				N. A.			
Bottom of door to ground, open — front	H132	12.9	13.1	13.1	12.9	12.9	13	. 3
Bottom of door to ground, closed – front	Н133	11.8	11.7	11.7	11.8	11.6	12	. 2
Bottom of door to ground, open – rear	H134	11.6	_	_	11.6	_	11	. 9
Bottom of door to ground, closed – rear	H135	11.6	_	_	11.6		11	. 9
Front bumper to ground	H102		10	. 5	3.00.000	10.4	10	. 9
Rear bumper to ground	H104		11	.6		11.4	11	. 0
Vindshield Jope angle	H122	57	.0°	54	. 5°	54.5°	55	. 0°
Body zero to ground – front	H136a		5	. 1		4.9	5	. 4
Body zero to ground – rear	H137a		5	. 1		4.9	5	. 4

MAKE OF CAR____

PONTIAC

MODEL YEAR 1963 DATE ISSUED 9-12-62REVISED (+)

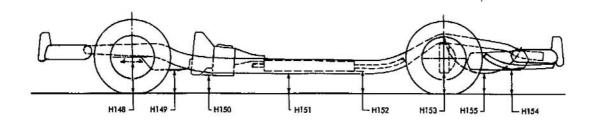
EXTERIOR HEIGHT DIMENSIONS

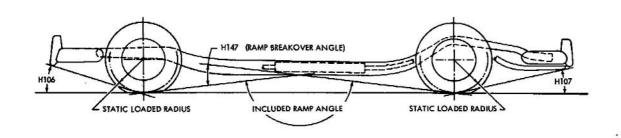


MODEL	Ref.	STAR	CHIEF		BONNE	VILLE	G	RAND PRI
	No.	2669	2639	2839	2847	2867	2835	2957
Overall height	H101	55.2	54	. 4	54.1	55.1	56.5	54.1
Hood at rear to ground	H114		37	. 5	<u> </u>	37.3	38.0	36.8
Rocker panel to ground – front	H112a		8	. 6		8.5	9. 2	7. 9
Rocker panel to ground – rear	нии		8	. 2		8.06	8. 76	7.5
Step height – front (design load)	H115				N.A.			
Step height – rear (design load)	H116				N.A.			
Step height – front (curb load)	H130				N.A.			
Step height – rear (curb load)	H131				N.A.			3.30.
Bottom of door to ground, open – front	H132		12.9	998 .5 <u>95 -</u>	13.1	12.9	13.3	13.1
Bottom of door to ground, closed – front	H133		11.8		11.7	11.6	12.2	11.7
Bottom of door to ground, open – rear	H134		11.6			To a made to the	11.9	
Bottom of door to ground, closed – rear	H135		11.6				11.9	100000
Front bumper to ground	H102		10.5	735	A	10.4	10.9	10.5
Rear bumper to ground	H104		11.5			11.4	11.0	11.5
Windshield slope angle	H122		57.0°		54.	5 ⁰	55.0°	57. 5°
Body zero to ground – front	H136a		5	. 1		4.9	5.4	5. 1
Body zero to ground – rear	H137a		5	. 1		4.9	5. 4	5. 1

MAKE OF CAR PONTIAC MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED (9)

GROUND CLEARANCE DIMENSIONS

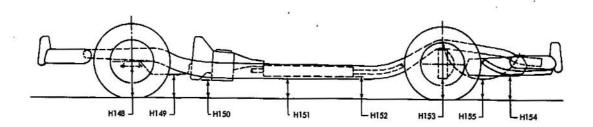


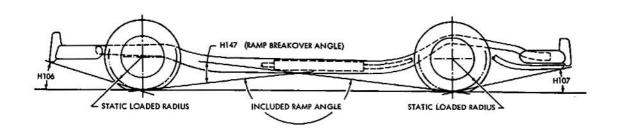


MODEL	Ref.			. (CATALIN	ſΑ		
MODEL .	No.	2369	2311	2347	2339	2367	2335	2345
Angle of approach	H106		21.	50	U-1-1200-0-123-11-14	21.0°	22.	3 ⁰
Angle of departure	H107		*0	12.5°		## - ##	11.	50
Ramp breakover angle	H147		12.	5 ⁰		12.0°	14.	0°
Front suspension to ground	H148		100 MA	6.0			6.	4
Oil pan to ground	H1 49			6.8	3 18		7.	1
Flywheel housing to ground	H150		2011 F	6.0			6.	4
Frame structure to ground	H151			6.0			6.	4
Exhaust system to ground	H152	*	-	6.0			6.	2
Rear axle differential to ground	H153			6.3			6.	6
Fuel tank to ground	H154		,	8.2			9.	3
Spare tire well to ground	H155			None	-30 - 70 cd3		6.	3
Minimum running ground clearance	H156			6.0	82		6.	2

MAKE OF CAR PONTIAC MODEL YEAR 1963 DATE ISSUED9-12-62 REVISED(6)

GROUND CLEARANCE DIMENSIONS

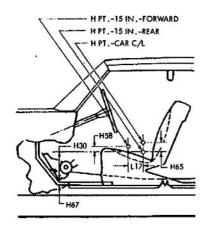


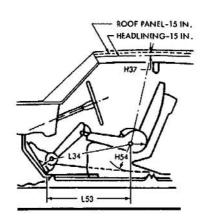


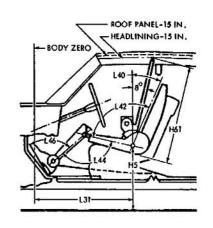
MODEL	Ref.	STAR	CHIEF		BONNEY	ILLE		GRAND PRI
MODEL	No.	2669	2639	2839	2847	2867	2835	2957
Angle of approach	H106		21	. 5°		210	22:30	21.5°
Angle of departure	H107				11.5°			- !
Ramp breakover angle	H147		12	. 5 ⁰	- 4.5	12°	140	12. 5°
Front suspension to ground	H1 48		6	. 0			6.4	6.0
Oil pan to ground	H149		6	. 8			7.1	6.8
Flywheel housing to ground	н150		6	. 0			6.4	6.0
Frame structure to ground	H151		6	. 0			6.4	6.0
Exhaust system to ground	H152		6	. 0	***	43	6.2	6.0
Rear axle differential to ground	H153		6	. 3			6.6	6.3
Fuel tank to ground	H154		8	. 2			9.3	8.2
Spare tire well to ground	H155		No	ne			6.3	None
Minimum running ground clearance	H156		6	. 0			6.2	6.0

MAKE OF CAR PONTIAC MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED (6)

FRONT COMPARTMENT DIMENSIONS







MODEL	Ref. No.	CATALINA	STAR C	HIEF	BONNEVILLE	GRAND PRIX
H Point to body zero line	L31a					
H Point to ground	H5a					
Effective head room	H61a					
Headlining to roof height	н37					•
Maximum effective leg room – accelerator	L34a					,
H Point to heel point	H30a				av [®] /	
Depressed floor covering thickness	H67a			Wales T	YALLABLE	
Back angle	L40a			P	41	4
Hip angle	L42a		•	\$0°5°		
Knee angle	L44a					
Foot angle	L46a	,				
H Point differential, side to center	Н65а					Was because the part of the second
H Point to tunnel	H54a					
H Point to accelerator floor point	L53a	A II III			183 184	2
H Point travel	L17a			920	Trade into	SMESSE REP.
H Point rise	H58a			-		

MAKE OF CAR	PONT			EL YEAR 19	CATALI	\$ 17. C. 100 C.		
MODEL		2369	2311	2339	2347	2367	2335	2345
BODY-MIS	CELLAN	EOUS IN	FORMA	TION				
Ors, hinged Front doors					Front			
front, rear) Rear doors		Front		Front			Fro	ont
Type of finish (lacquer, enam	el, other)			A	crylic La	cquer		
tood hinge location (front, re	ear)				Rear		74.5	
Hood counterbalanced (yes, n	10)				Yes			
lood release control (interna	(, external)				External			
'ehicle (Serial) No. Locati	on			Left F	ront Body	Pillar		
Engine No. Location				Eront of	р ц С.	linder Bank		
				r ront or	K.H. Cy	nnder bank		
Theft protection - type		Ignition 1	key sta:	terminals	s guarded rol with '	by locked o	n conr	g from
		Ignition 1	key sta:	terminals	s guarded rol with '	by locked	n conr	g from
Theft protection - type	Front	Ignition 1	key sta:	terminals	s guarded rol with ' il add to p Crank	by locked o	n conr	g from
Theft protection - type Vent window control method	Rear	Ignition 1	key sta:	terminals	s guarded rol with ' il add to p Crank None	by locked o	n conr	g from
Theft protection - type /ent window control method crank, friction pivot)	Rear Front	Ignition 1	key sta:	terminals	s guarded rol with ' il add to p Crank None (a)	by locked o	n conr	g from
	Rear Front Rear	Ignition 1	key sta:	terminals	s guarded rol with ' il add to p Crank None (a)	by locked o	n conr	g from
Theft protection - type /ent window control method crank, friction pivot)	Rear Front Rear Front	Ignition 1	key sta:	terminals	s guarded rol with ' il add to p Crank None (a) (a) (b)	by locked o	n conr	g from
Theft protection – type /ent window control method crank, friction pivot) Seat cushion type Seat back type	Rear Front Rear Front Rear	Ignition 1	key sta:	terminals	s guarded rol with ' il add to p Crank None (a)	by locked o	n conr	g from
Theft protection - type /ent window control method crank, friction pivot) Seat cushion type	Rear Front Rear Front Rear	Ignition l	key sta:	terminals	guarded rol with ' il add to p Crank None (a) (a) (b)	by locked o	on conr 'wirin	g from
Theft protection – type Vent window control method crank, friction pivot) Seat cushion type Seat back type Windshield type (single curv	Rear Front Rear Front Rear	Ignition l	key sta:	terminals rter cont r and coi	guarded rol with ' il add to p Crank None (a) (a) (b)	by locked of in harness' protection of the content	on conf wirin	ng from by locked
Theft protection – type Vent window control method crank, friction pivot) Seat cushion type Seat back type Windshield type (single curvompound curved, other) Rear window type (flat, curved)	Rear Front Rear Front Rear Front Rear ved,	Ignition l	curved	terminals rter cont r and coi	s guarded rol with 'al add to part of the Crank None (a) (a) (b) (c) Compo	by locked of in harness' protection of the content	on conf wirin	e Curved
Theft protection – type Vent window control method crank, friction pivot) Seat cushion type Seat back type Windshield type (single curve) compound curved, other) Rear window type (flat, curve) clear, three piece)	Rear Front Rear Front Rear Front Rear ved,	Ignition l	curved	terminals rter cont r and coi	guarded rol with ' ll add to p Crank None (a) (b) (c) Compo	by locked of in harness' protection of the control	Singl	e Curved
Theft protection – type Vent window control method crank, friction pivot) Seat cushion type Seat back type Windshield type (single curve) Sear window type (flat, curve) Sear window type (flat, curve) Side glass type (curved, flat)	Rear Front Rear Front Rear Front Rear ved, one	Single	Curved	terminals rter cont r and coi	guarded rol with ' l add to p Crank None (a) (b) (c) Compo One Pie	by locked of in harness' protection of the control	Singl	e Curved
Theft protection – type Vent window control method crank, friction pivot) Seat cushion type Seat back type Windshield type (single curve) Sear window type (flat, curve) Side glass type (curved, flat) Side glass exposed surface of	Rear Front Rear Front Rear Front Rear ved, one one face area	Ignition l switch to	Curved	terminals rter cont r and coi	guarded rol with 'il add to p Crank None (a) (b) (c) Compo One Pie	by locked of in harness' protection of the prote	Singl	e Curved

⁽a) Zig zag spring with polyurethane over cotton pad.

⁽b) Zig zag spring with cotton pad.

⁽c) Formed wire spring with cotton pad.

MAKE OF CAR								
		STAR C	CHIEF		BONNE	VILLE	jc	RAND P
MODEL	*	2669	2639	2839	2847	2867	2835	2957
BODY-MIS	CELLAN	IEOUS IN	NFORMA	TION				
Ors. hinged Front doors					Front			
front, rear) Rear doors		Fr	ont				Front	
ype of finish (lacquer, enam	el, other)			A	crylic La	cquer		
lood hinge location (front, re	ear)				Rear	1		
food counterbalanced (yes, n	0)				Yes			
lood release control (interna	, external)				External			
/ehicle (Serial) No. Locatio	on		3 - 10 10 - 10	Left H	Front Bod	y Pillar		
W		1						
Engine No. Location	-	Ignition				nder Bank		body.
Engine No. Location Theft protection - type		Ignition	switch key sta	terminals	guarded	by locked	d on conn. s' wiring on offered	from
heft protection - type	Front	Ignition	switch key sta	terminals	s guarded rol with ' l added to Crank	by locked	d on conn.	from
heft protection - type	Front Rear	Ignition	switch key sta	terminals	s guarded rol with ' l added to	by locked	d on conn.	from l by locke
heft protection - type ent window control method rank, friction pivot)	Rear Front	Ignition	switch key sta	terminals rter cont r and coi	s guarded rol with ' l added to Crank None	by locked	d on conn.	from
	Rear Front Rear	Ignition	switch key sta	terminals rter cont r and coi	s guarded rol with ' l added to Crank None	by locked	d on conn.	from l by locke
Theft protection - type Vent window control method crank, friction pivot)	Rear Front Rear Front	Ignition	switch key sta	terminals rter cont r and coi	s guarded rol with ' l added to Crank None a) (a)	by locked	d on conn.	from l by locke
Theft protection - type Vent window control method crank, friction pivot) Seat cushion type Seat back type	Rear Front Rear Front Rear	Ignition	switch key sta	terminals rter cont r and coi	s guarded rol with ' l added to Crank None	by locked	d on conn.	from l by locke
Theft protection - type Vent window control method crank, friction pivot) leat cushion type	Rear Front Rear Front Rear	Ignition switch	switch key sta	terminals rter cont r and coi	s guarded rol with ' l added to Crank None a) (a) (c)	by locked in harnes o protecti	d on conn.	from l by locke (d)
Theft protection - type Vent window control method crank, friction pivot) ieat cushion type Seat back type Vindshield type (single curv	Rear Front Rear Front Rear	Ignition switch	switch key sta to starte	terminals rter cont r and coi (a	s guarded rol with ' l added to Crank None a) (a) (c)	by locked in harnes o protecti und Curve	d on conn. ss" wiring on offered	from l by locke (d) (d) Curved
Theft protection - type Yent window control method crank, friction pivot) Seat cushion type Seat back type Vindshield type (single curv compound curved, other) Sear window type (flat, curv	Rear Front Rear Front Rear ed,	Ignition switch	switch key sta to starte	terminals rter cont r and coi (a	s guarded rol with ' l added to Crank None a) (a) (c) Compo	by locked in harnes protection	d on conn. ss" wiring on offered	from l by locke (d)
Theft protection - type Yent window control method crank, friction pivot) Seat cushion type Seat back type Vindshield type (single curv compound curved, other) Lear window type (flat, curvice, three piece)	Rear Front Rear Front Rear ed,	Ignition switch	switch key sta to starte	terminals rter cont r and coi (a	s guarded rol with ' l added to Crank None a) (a) (c) Compo	by locked in harnes or protection protection und Curve in the curve in	d on conn. ss" wiring on offered	from by locke (d) (d) Curved
Theft protection - type Yent window control method crank, friction pivot) Seat cushion type Seat back type Vindshield type (single curv compound curved, other) Jear window type (flat, curvisce, three piece) Jide glass type (curved, flat)	Rear Front Rear Front Rear ed, red, one	Ignition switch	e Curved	terminals rter cont r and coi (a (1) d	s guarded rol with 'l added to Crank None (a) (a) (c) Compo One Piece Flat 1236, 2	und Curve	d on conn. ss" wiring on offered ed Single Flat 2669.3	from by locke (d) (d) Curved Concave
Theft protection - type Yent window control method crank, friction pivot) Seat cushion type Seat back type Vindshield type (single curv compound curved, other) Sear window type (flat, curvice, three piece) ide glass type (curved, flat ide glass exposed surface at	Rear Front Rear Front Rear ed, red, one	Singl	e Curved	terminals rter cont r and coi (a	s guarded rol with ' l added to Crank None a) (a) (c) Compo One Piece	und Curve	d on conn. ss" wiring on offered	from l by locke (d) (d) Curved

- (a) Zig zag spring with polyurethane over cotton pad.
- (b) Zig zag spring with cotton pad.
- (c) Formed wire spring with cotton pad.
- (d) Contour molded foam pad.

MAKE OF CAR PONTIAC MODEL YEAR 1963 DATE ISSUED 9-12-62 REVISED (6)

MAJOR OPTIONAL ITEMS - WEIGHTS (ESTIMATED)

EIGHT DISTRIBUT	n Rear Rear	SHIPPING * WEIGHT
	CONTRACTOR CONTRACTOR	-∥ WEIGHT
		WEIGHT
		
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^{*} These are weights that are reported to states for licensing purposes.