PRELIMINARY

Specifications Form Passenger Car

1980

METRIC (U.S. Customary)

Manufacturer	Car Line	
PONTIAC MOTOR DIVISION GENERAL MOTORS CORPORATION	FIREBIRD	
Mailing Address	Model Year	Issued: 6-1-79
ONE PONTIAC PLAZA PONTIAC, MICHIGAN 40853	1980	Revised (*) 7-31-79

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The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.

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MVMA Specifications Form
Passenger Car
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Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (*) _____

Car Models

Model Description (Include Line Drawings of Vehicles, if Desired)	Make, Car line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load — Kilograms (Pounds)
2-DOOR HARDTOP COUPE			
	FIREBIRD		
	2FS87	4 (2/2)	200
	FIREBIRD ESPRIT		
	2FT87	4 (2/2)	200
	FIREBIRD FORMULA		
	2FV87	4 (2/2)	200
	FIREBIRD TRANS AM		
	2FW87	4 (2/2)	200

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The Metric unit of measurement is presented first, and the U.S. Customary unit follows in parentheses.
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 linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. A printed or computer tape supplement containing additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Power Teams (indicate whether standard or optional)

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

	SERIES AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)
		Displ. liters (in³)	Carb.	Compr. Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N·m (lb. ft.)	Exhaust System*	
	STANDARD: FIREBIRD & ESPRIT	*LD5 3.8	2	8.0	115@ 3800	188@ 2000	S	3-SPEED MANUAL 3-SPEED AUTOMATIC	3.08 F 2.56 F, 2.73 C 3.23 F
	OPTIONAL: FIREBIRD & ESPRIT	LS5 4.3	2	8.3	120@ 3600	210@ 1600	S	3-SPEED AUTOMATIC	2.41 F
	(.)	L37 4.9	4	8.1	140@ 4000	240@ 1800	S	3-SPEED AUTOMATIC	2.41 F
		@LG4 5.0	4	8.4	150@ 3800	230@ 2400	S	3-SPEED AUTOMATIC	2.56C,A 3.08C,A
	STANDARD: FORMULA (.)	L37 4.9	4	8.1	140@ 4000	240@ 1800	S	3-SPEED AUTOMATIC	2.41 F
	OPTIONAL: FORMULA (.)	L37+ W72 4.9	4	8.1	155@ 4400	240@ 2200	S	3-SPEED AUTOMATIC	3.08
	(.)	LU8 4.9	4	7.6	210@ 4000	345@ 2000	S	3-SPEED AUTOMATIC	3.08
		@LG4 5.0	4	8.4	150@ 3800	230@ 2400	S	3-SPEED AUTOMATIC	2.56C,A 3.08C,A
(.)	STANDARD: TRANS AM	L37+ W72 4.9	4	8.1	155@ 4400	240@ 2200	S	3-SPEED AUTOMATIC	3.08
(.)	OPTIONAL: TRANS AM	L37 4.9	4	8.1	140@ 4000	240@ 1800	S	3-SPEED AUTOMATIC	2.41
	(.)	LU8 4.9	4	7.6	210@ 4000	345@ 2000	S	3-SPEED AUTOMATIC	3.08
		@LG4 5.0	4	8.4	150@ 3800	230@ 2400	S	3-SPEED AUTOMATIC	3.08 C,A 2.56 C,A

*S-(CONTINUED) Dual

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Engine Description/Carb.	301 TURBO LU8	301/L37 301/L37 +W72	265/LS5

Engine — General

*Total dressed engine mass (wt) dry		260.3 (573.9)	237.7 (524.0 AT	236.4 (521.2)
Type (inline, V and Angle, Flat) Location (Front, Mid, Rear)		V8 90° OHV		
No. of cylinders		8		
Bore		(4.00)		(3.75)
Stroke		3.00		
Piston Displacement cm^3 (in^3)		4900 (301)		4300 (265)
Bore Spacing (C/L to C/L)		4.62		
Cyl. 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		
Cylinder Head Material		CAST ALLOY IRON		
Cylinder Block Material		CAST ALLOY IRON		
Cylinder block deck height		232.2 (9.143)		
Number of mtg. points	Front	TWO		
	Rear	ONE		
Engine installation position (transverse, Longitudinal)		(.) LONGITUDINAL 3.75°		
Recommended fuel Leaded, unleaded		UNLEADED - 91 (OR HIGHER OCTANE RATING)		
Fuel antiknock index $\frac{(R+M)}{2}$		.87		
Cylinder Head Volume — cm^3		70.99		63.199
Head Gasket Thickness (Compressed)		1.168		
Head Gasket Volume — cm^3		10.09		8.93
Deck clearance (minimum) (above or below block)		.673 BELOW; .469 ABOVE		
Minimum Combustion Chamber Volume — cm^3		90.87	83.50	71.49

Engine — Pistons

Material			CAST ALUMINUM ALLOY		
Description and finish			CAM GROUND - SLIPPER TYPE - TIN PLATED		
Mass, g (weight, oz.) — Piston Only			658 (23.21)	564.0 (19.93)	538 (18.98)
Clearance (limits)	Top land		(.640-.803)	.742 - 1.057	(1.102 - .787)
	Skirt	Top	(.064 - .084)		
		Bottom	(.043 - .104)		
Ring groove diameter	No. 1 ring		90.75 - 90.50		84.81 - 85.06
	No. 2 ring		90.75 - 90.50		84.81 - 85.06
	No. 3. ring		90.19 - 90.93		86.72 - 87.0

*Dressed engine mass (weight) includes the following:

** Rear of engine - drive takeoff.
View from drive takeoff end to determine left & right side of engine.

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Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE						TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)
	Displ. liters (in^3)	Carb.	Compr. Ratio	SAE Net at RPM: kW (bhp)	SAE Net at RPM: Torque N·m (lb. ft.)	Exhaust System*		
ENGINE SPECIFICATIONS: *LD5 - REFER TO BUICK REGAL MVMA'S, EXCEPT FOR PAGES AND SPECIFICATIONS INCLUDED IN THIS REPORT. @LG4 - REFER TO CHEVROLET CAMARO MVMA'S EXCEPT FOR PAGES AND SPECIFICATIONS INCLUDED IN THIS REPORT.								

*S — Single D — Dual

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Engine Description/Carb.	301 TURBO LU8	301/L37 301/L37 +W72	265/LS5

Engine — Piston Rings

Function (top to bottom)	No. 1, oil or comp.		COMPRESSION	
	No. 2, oil or comp.		COMPRESSION	
	No. 3, oil or comp.		OIL	
Compression	Description—Material, coating, etc.		CAST IRON, REVERSE TWIST, #1 - BARREL FACE - MOLY CHANNEL; #2 - TAPER FACE, TIN PLATED (MOLY FILLED ON TURBO)	
	Width		1.98 (.0778)	
	Gap		.25 - .71 (.010 - .028)	(a)
Oil	Description—material, coating, etc.		MULTI-PIECE, 2 RAILS & 1 SPACER (EXPANDER); RAILS: STEEL WITH CHROME PLATED OD; EXPANDER: STAINLESS STEEL	
	Width		4.72 (.186)	
	Gap		(.015 - .055)	(.010 - .050)
Expanders			IN OIL RING ASSEMBLY	

Engine — Piston Pins

Material			SAE 1016	
Length			76.20 (3.000)	
Diameter			23.54 (.927)	
Type	Locked in rod, in piston, floating, etc.		LOCKED IN ROD	
	Bushing	In rod or piston	NONE	
		Material	NONE	
Clearance	In piston		.008 - .013 (.0003 - .0005)	
	In rod		PRESS FIT	
Direction & amount offset in piston			RIGHT 1.52 (.06)	

Engine — Connecting Rods

Material			ARMA STEEL
Mass, g (weight, oz.)			620 (21.9)
Length (center to center)			153.67 (6.050)
Bearing	Material & Type		M400 ALUMINUM STEEL BACKED - REMOVABLE
	Overall length		18.72 (.737)
	Clearance (limits)		.013 - .066 (.0005 - .0026)
	End Play		.15 - .56 (.006 - .002)

(a) .25-.56 (.010 - .022) UPPER; .25 - .71 (.010-.028) LOWER

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Engine Description/Carb.			
301 L37 TURBO LU8	301 L37	265/LS5	
	301/L37 +W72		

Engine — Crankshaft

Material			NODULAR IRON (TURBO ROLLED FILLET)
Vibration damper type			RUBBER FLOATED WEIGHT
End thrust taken by bearing (No.)			4
Crankshaft end play			(.089 - .216)
Main bearing	Material & type		M400 ALUMINUM STEEL BACKED, REMOVABLE, PRECISION BEARINGS
	Clearance		.005 - .046
	Journal dia. and bearing overal length	No. 1	76.20 x 20.32
		No. 2	76.20 x 20.32
		No. 3	76.20 x 20.32
		No. 4	76.20 x 26.92
		No. 5	76.20 x 40.39
		No. 6	NONE
		No. 7	NONE
	Dir. & amt. cyl. offset		R.B. LEADS 23.88
	No. bolts/main brg. cap		2
Crankpin journal diameter			50.8 (2.00)

Engine — Camshaft

Location			BETWEEN CYLINDER BANKS
Material			HARDENED ALLOY CAST IRON
Bearings	Material		STEEL BACKED BABBITT
	Number		5
Type of Drive	Gear, chain or belt		CHAIN
	Crankshaft gear or sprocket material		HARDENED SINTERED IRON
	Camshaft gear or sprocket material		HEAT-TREATED CAST IRON
	Timing chain	No. of links	60
			—
	Chain or Belt	Width	19.05
		Pitch	9.53

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Engine Description/Carb.	301 TURBO LU8	265/LS5	301/L37	301/L37 (W72)

Engine — Valve System

Hydraulic lifters (Std., opt., NA)			STANDARD			
Valve rotator, type (intake, exhaust)			NONE			
Push rods (dia., length, material)			7.94, 205.0 STEEL			
Rocker ratio			1.5:1			
Operating tappet clearance (indicate hot or cold	Intake		NONE			
	Exhaust		NONE			
Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°	27°	16°	17°
		Closes (°ABC)	54°	67°	54°	77°
		Duration (deg.)	250°	274°	250°	274°
	Exhaust	Opens (°BBC)	48°	62°	48°	52°
		Closes (°ATC)	22°	32°	22°	42°
		Duration (deg.)	250°	274°	250°	274°
	Valve open overlap (deg.)		38°	59°	38°	59°
Intake Valve	Material		SAE 1541 (21-2 STEEL FLASH-CHROME PLATED STEM			
	Overall length		129.0	130.0	129.0	129.0
	Actual overall head dia.		43.69	40.64	43.69	43.69
	Angle of seat & face (deg.)		46° SEAT; 45° FACE			
	Seat insert material		NONE			
	Stem diameter		8.700 - 8.682			
	Stem to guide clearance		.025 - .069			
	Lift (at zero lash)		8.88	9.25	8.88	9.25
	Outer spring press. & length	Valve closed—N at mm (lb. at in.) *	334 @ 42.16 (75# @ 1.66")			
		Valve open—N at mm (lb. at in) *	779 @ 32.8 (175# @ 1.29")			
	Inner spring press. & length	Valve closed—N at mm (lb. at in.)	NONE			
		Valve open—N at mm (lb. at in.)	NONE			
Exhaust Valve	Material		21-2 STEEL FLASH - CHROME PLATED STEM			
	Overall length		129.0	130.0	129.0	129.0
	Actual overall head dia.		38.1	35.0	38.1	38.1
	Angle of seat & face (deg.)		46° SEAT; 45° FACE			
	Seat insert material		NONE			
	Stem diameter		8.700 - 8.682			
	Stem to guide clearance		.025 - .069			
	Lift (at zero lash)		8.88	9.25	8.88	9.25
	Outer spring press. & length	Valve closed—N at mm (lb. at in.) *	334 @ 42.16 (75# @ 1.66")			
		Valve open—N at mm (lb. at in.) *	779 @ 32.8 (175# @ 1.29")			
	Inner spring press. & length	Valve closed—N at mm (lb. at in)	NONE			
		Valve open—N at mm (lb. at in.)	NONE			

* LBS - IN NEAR VALVE OPEN

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Engine Description/Carb.		
	265/LS5 301/L37	301/L37 +W72 301 TURBO LU8

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	SPLASH	
Oil pump type		GEAR	
Normal oil pressure-kPa(Psi) at engine rpm		(35-40 @ 2600)	(55-60 @ 2600)
Type oil intake (floating, stationary)		STATIONARY	
Oil filter system (full flow, part, other)		FULL FLOW	
Capacity of crcase, less filter-refill-L (qt.)		3.8 (4)	
Oil grade recommended (SAE viscosity and temperature range)		20°F & ABOVE: 20W20, 10W30, 10W40, 20W40, 20W50 0-60°F: 10W, 5W30, 10W40, 10W30 20°F & BELOW: 5W20, 10W30	
Engine service reqmt. (SD, SE, etc.)		SE	

Engine — Exhaust System

		231/LD5	265/LS5 301/L37	301/L37 +W72 301 TURBO LU8
Type (single, single with cross-over, dual, other)		SINGLE W/ CROSSOVER	SINGLE W/CROSSOVER DUAL TAILPIPES	SINGLE W/CROSSOVER DUAL BEHIND CAT. CONV.
Muffler No. & Type (reverse flow, straight thru, separate resonator)		ONE, REVERSE FLOW		TWO, REVERSE FLOW
Resonator No. & type		NONE		
Exhaust Pipe	Branch O.D., wall thickness	(2.00 x .072)		
	Main O.D., wall thickness	(2.50 x .083)	(2.25 x .072)	(2.25 x .072)
	Material	LAMINATED STAINLESS STEEL		COLD ROLLED STEEL
Intermediate Pipe	O.D. & wall thickness	2.00 x .056		(2.25 x .072)
	Material	ALUMINIZED COLD ROLLED STEEL		COLD ROLLED STEEL
Tail Pipe	O.D. & wall thickness	(2.00 x .069)	(2.25 x .069)	(2.25 x .056)
	Material	ALUMINIZED COLD ROLLED STEEL		

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Car Line FIREBIRD

Model Year 1980 Issued 6-1-79 Revised (*) 7-31-79

Engine Description/Carb.	265/LS5	301/L37	301/L37 (W72)	301/LU8 TURBO

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

Induction type: Carburetor, fuel injection, etc.			CARBURETOR		
Fuel Tank	Refill capacity—L (U.S. gals.)		20.8		
	Filler location		CENTER REAR		
Fuel Pump	Type (elec. or mech.)		MECHANICAL		
	Locations		R FRT		
	Pressure range—kPa (psi)		51.7 - 62.1 (7.5 - 9.0)		
Fuel Filter	Type		FINE MESH PLASTIC STRAINER IN TANK; PLEATED PAPER		
	Locations		ELEMENT WITH INTEGRAL CHECK VALVE IN CARBURETOR INLET		
Carburetor	Choke type		AUTOMATIC - ELECTRIC		
	Intake manifold heat control (exhaust or water)		ALL EXHAUST EXCEPT LU8 WATER		
	Air cleaner type	Standard	THERMOSTATICALLY CONTROLLED; OIL WETTED PAPER ELEMENT		
		Optional			
	Idle spd.—rpm (spec. neutral or drive)	Manual	700 (N) *		
		Propane (Neu.)			
		Automatic	TBD (D) *	500 (D) *	550 (D) *
		Propane (Neu.)			
	Idle A/F mix.		PRESET BY MANUFACTURER		

* IDLE SPEED MODIFIED WITH SOLENOID ON A/C EQUIPPED CARS

Carburetor Supplementary Information

Model Usage	Engine Displ. —L (in.³)	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
STANDARD OPT. FS87, FT87	LS5 265	AUTOMATIC	ROCHESTER	17080160 M2ME	1-2BBL	30.9 (1.218
OPTIONAL FS87, FT87 FV87, FW87	L37/ 301	AUTOMATIC	ROCHESTER	17080272 M4ME	1-4BBL	30.9 (1.218 57.1 (2.25)
OPTIONAL FV87, FW87	L37/ 301 +W72	AUTOMATIC	ROCHESTER	17080270 M4M3	1-4BBL	30.9 (1.218 57.1 (2.25)
OPTIONAL FV87, FW87	LU8 301 TURBO	AUTOMATIC	ROCHESTER	17080274 M4ME	1-4BBL	30.9 (1.218 57.1 (2.25)

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Car Line FIREBIRD
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Engine Description/Carb.	301/L37 + W72 301 TURBO LU8	301/L37	265/LS5

Engine — Cooling System

Coolant recovery system (std., opt., none)			STANDARD		
Radiator cap relief valve pressure—kPa (psi)			(15 PSI)		
Circulation thermostat	Type (choke, bypass)		CHOKE		
	Starts to open at °C (°F)		(195°F)		
Water pump	Type (centrifugal, other)		CENTRIFUGAL		
	GPM 1000 pump rpm		10.5		
	Number of pumps		ONE		
	Drive (V-belt, other)		V-BELT		
	Bearing type		SEALED DOUBLE ROW BALL		
By-pass recirculation type (inter., ext.)			INTERNAL		
Radiator core type (cross-flow, vertical, cellular, tube and fin, other)			CROSS FLOW, TUBE AND CENTER		
Cooling System Capacity	With heater—L (qt.)		19.8 (20.9)		
	Without heater—L (qt.)		HEATER STANDARD		
	Opt. equipment-specify—L (qt.)		NOT AVAILABLE		
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	38.1 (1.50) RAD: 44.5 (1.75) PUMP		
	Upper	Number and type (molded, straight)	ONE, MOLDED		
		Inside diameter	31.8 (1.25)		
	By-pass	Number and type (molded, straight)	NONE		
		Inside diameter			
Radiator (Core)	Standard	Width	(27.5)		
		Height	(16.97)		
		Thickness	(1.24)		
	A/C	Width	(27.5)		
		Height	(16.97)		
		Thickness	(1.96)	(1.24)	
	Heavy duty	Width	(27.5)		
		Height	(16.97)		
		Thickness	(1.96)		
Fan (Standard)	Number of blades & spacing		7	5	
	Diameter		(19.0)		
	Ratio—fan to crankshaft rev.		95:1		
	Fan cutout type		THERMO	NONE	
	Drive Type-Number of Fans				
Fan (optional)	No. of blades and spacing		7 WITH A/C		
	Diameter		(19.0)		
	Ratio—fan to crankshaft rev.		1.25:1		
	Fan cut-out type		THERMOSTATICALLY CONTROLLED CLUTCH WITH A/C		
	Drive Type-Number of Fans				

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Car Line FIREBIRD
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Engine Description/Carb.

301/L37 301/LU8 TURBO	301/L37 w/W72 265/LS5

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)		OXIDIZING CONVERTER, AIR INJECTION AT EXHAUST PORTS, EXHAUST GAS RECIRCULATION, EARLY FUEL EVAPORATION
	Air Injection Pump	Type	POSITIVE DISPLACEMENT
		Displacement—cm^3 (in^3)	(19 in3)
		Drive ratio	1.1
		Drive type	PULLEY
		Relief valve (type)	NONE (RELIEF THRU DIVERTER VALVE)
		Filter (describe)	FILTER FAN WITH I.D. FAN SEAL
	Air Injection System	Air distribution (head, manifold, etc.)	HEAD
		Point of entry	EXHAUST RUNNER NEAR VALVE (RUNNERS 1,2,7,8)
		Injection tube i.d.	DRILLED HOLE (TBD)
		Check valve type	SPRING ACTUATED WITH HIGH TEMPERATURE S
		Backfire protection (type)	DECEL. DIVERT VALVE
	Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)	CONTROLLED FLOW
		Valve type	VACUUM MODULATED SHUT OFF AND METERING
		Valve location	INTAKE MANIFOLD, L. REAR ON V6; R. REAR ON V8
		Control energy source	CARBURETOR VACUUM, EXHAUST PRESSURE MODULATED
		Exhaust source	EXHAUST CROSSOVER IN INTAKE MANIFOLD
		Exhaust cooler type	NONE
		Orifice no. and size	—
		Point of exhaust injection (spacer, carburetor, manifold, other)	CARBURETOR TO MANIFOLD SPACER
	Catalytic Converter System	Catalyst Type	PLATINUM - PALLADIUM
		Catalyst Volume—L (in^3)	TBD
		Substrate type	LOW DENSITY ALUMINA
		Container location	BENEATH RIGHT FRONT UNDERBODY
	Other	HEATED AIR TO CARBURETOR	THERMOSTATICALLY CONTROLLED AIR CLEANER REGULATOR MIX HEATED AIR WITH INCOMING COLD AIR TO REDUCE HYDROCARB EMISSION
		THERMAL CONTROL OF EFE HEAT	EARLY FUEL EVAPORATION INSURED BY DIVERTED GAS AT COOLANT TEMPERATURES ABOVE 150°F FOR L37 AND 165° FOR LS5.

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Car Line F11[illegible]
Model Year 1980 Issued 6-1-79 Revised (*)

Engine Description/Carb.

LD5, LG4, LS5, L37 LU8
L37 w/W72

Vehicle Emission Control (Continued)

Crankcase Emission Control	Type (ventilates to atmos., induction system, other)	Standard	CLOSED-VENTILATED TO INDUCTION SYSTEM
		Optional	—
	Control Unit	Make and model	—
		Location	—
		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)	FILTER IN CARB AIR CLEANER AIR CLEANER MTD BREATHER A
		Flame arrestor (screen, other)	CHECK VALVE AND/OR SCREEN
Evaporative Emission Control	Fuel Tank	Thermal expansion volume—dm^3 (ft^3)	.29
		Relief Pressure kPa (psi) and location	IN CAP 11.2 - 15.0 KPa
		Vacuum relief kPa (psi) and location	IN CAP 3.0 - 6.8 KPa
		Vapor-liquid separator type	DOME IN TOP OF GAS TANK
		Vapor vented to (crankcase, canister, other)	CANISTER
			—
	Carburetor	Vapor vented to (crankcase, canister, other)	CANISTER
			—
	Vapor Storage	Storage provision (crankcase, canister, other)	CANISTER
			—
		Volume—dm^3 (ft^3) or capacity (grams)	1.5 (58 GRAMS MIN. CAP. MEDIUM WORKING)
		Control valve type	VACUUM DIAPHRAGM

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MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (*)

Engine Description/Carb.					
				231/LD5	265/LS5, 301 TURBO LU8 301/L37 301/L37 +W72

Electrical — Supply System

Battery	Make and Model			85-50 (a,b,c)	85-60 (b,c)
	Voltage Rtg.—V— & Total Plates			12-36	12-48
	SAE Designation No. and/or capacity			(a)	(b)
	Location			UNDERHOOD RH SIDE	UNDERHOOD LH SIDE
Generator or Alternator	Make			DELCO REMY	
	Model				
	Type and rating			(d,e)	(f,g,h)
	Output at engine idle (neutral) A			(d,e)	(f,g,h)
	Ratio—Gen. to Crk's rev.				
Regulator	Make			DELCO ELECTRONICS	
	Model				
	Type			INTEGRAL WITH ALTERNATOR	
	Regulated	Voltage		14.7	
		Current A		(d,e)	(f,g,h)
	Voltage test conditions	Temperature—°C (°F)		25°C; 77°F	
		Load A		25 AMPS	
		Other		7000 RPM	

Electrical — Starting System

Starting Motor	Make			DELCO REMY	
	Model			1109061	1109523
Motor Drive	Engagement Type			POSITIVE SHIFT SOLENOID	
	Pinion engages from (front, rear)				OVERRUNNING CLUTCH
	Number of teeth	Pinion		9	
		Flywheel	Manual	160	166
			Auto	160	166

(a) 85-50 WITH C41 ONLY, 60 MINUTE RESERVE CAP.
(b) 85-60 WITH A/C AND/OR HEATED BACKLITE, 80 MINUTE RESERVE CAP.
(c) 89-60 WITH H.D. OPTION
(d) 1103043 WITH HEATER ONLY, 42 AMPS, 10 SI
(e) 1103112 WITH A/C AND/OR HEATED BACKLITE, 63 AMPS, 10 SI

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Passenger Car
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Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (*) 7-31-79

Engine Description/Carb.	301/L37	301/LU8 TURBO	301/L37 +W72	265/LS5

Electrical — Ignition System — Distributor

Distributor	Manual	—			
	Automatic	1103425	1103403	1103407	1103426
Timing	Manual	(.)			
	Automatic	12° @ 500	12° @ 550		12° @ 525

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at kPa (in. of Hg.)	
	Start	Intermediate	Maximum	Start	Maximum
1103407	0° @ 1000	16° @ 2500	23° @ 4400	0° @ 4 in Hg	20° @ 10 in Hg
1103403	0° @ 1000	11° @ 2000	14° @ 4400	0° @ 4 in Hg	20° @ 8 in Hg
1103425	0° @ 1000	9° @ 2000	17° @ 4600	0° @ 4 in Hg	20° @ 10 in Hg
1103426	0° @ 1000	—	19° @ 3200	0° @ 4 in Hg	20° @ 10 in Hg

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Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (*) _____

Engine Description/Carb.		
	301/L37 265/LS5	301/L37 +W72 (LU8) 301 TURBO LU8

Electrical — Ignition System

Type	Conventional—Std., Opt., N.A.		NOT AVAILABLE
	Transistorized—Std., Opt., N.A.		STANDARD
	Other (specify)		HIGH ENERGY IGNITION SYSTEM* (H.E.I.)
Coil	Make		DELCO REMY
	Model		INTEGRAL WITH DISTRIBUTOR
	Current	Engine stopped—A	—
		Engine idling—A	—
Spark Plug	Make		AC
	Model		R45TSX
	Thread (mm)		14
	Tightening torque—N·m (lb. ft.)		20 (15)
	Gap		(.060)

Electrical — Suppression

Locations & type	ON ALL CARS: INTERNAL ALTERNATOR CAPACITOR, NON-METALLIC HIGH TENSION CABLES, RESISTC SPARK PLUGS, IGNITION COIL BY-PASS CAPACITOR, INTERNAL AC BLOWER MOTOR BY-PASS CAPACITOR & AC COMPRESSOR DIODE. ON CARS WITH RADIOS OR RADIO PROVISIONS: HOOD GROUNDING CLIP, ENGINE TO DASH GROUND STRAP, FUSE BLOCK CAPACITOR AND ON "HEATER ONLY" BLOWER MOTORS A COAX CAPACITOR.

Electrical — Instruments and Equipment

Speedometer	Type	DIAL WITH POINTER
	Trip odometer (std., opt., N.A.)	NOT AVAILABLE
EGR maintenance indicator		NONE
Charge Indicator	Type	TELLTALE LAMP (a)
	Warning device	INHERENT
Temperature Indicator	Type	TELLTALE LAMP (a)
	Warning device	INHERENT
Oil pressure Indicator	Type	TELLTALE LAMP (a)
	Warning device	INHERENT
Fuel Indicator	Type	ELECTRIC GAUGE
	Warning device	NONE
Windshield Wiper	Type—standard	TWO SPEED ELECTRIC DEPRESSED PARK
	Type—optional	CONTROLLED CYCLE
	Blade length	(18.0)
	Swept area—cm^2 ($in.^2$)	
Windshield Washer	Type—standard	ELECTRIC: PUMP MOUNTED ON FLUID CONTAINER
	Type—optional	NONE
	Fluid level indicator	NONE
Horn	Type	VIBRATOR
	Number used	TWO
	Current draw (A) per horn	5.0
Other		TELLTALE LAMP FOR BRAKE FAILURE & PARKING BRAKE RESTRAINT SYSTEM WARNING LAMP & BUZZER-STANDARD; TACHOMETER AND HEADLAMP "ON" WARNING BUZZER-OPTIONAL

(a) REPLACED BY GAUGE WITH GAUGE OPTION.

* WITH DETONATION FEEDBACK SYSTEM.

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Car Line FIREBIRD

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Engine Description/Carb.	231/LD5

Drive Units — Clutch (Manual Transmission)

Make & type		BORG AND BECK - DRY DISC
Type pressure plate springs		DISC STEEL
Total spring load—N (lb.)		2090
No. of clutch driven discs		ONE
Clutch facing	Material	WOVEN MOLDED ASBESTOS
	Manufacturer	BORG AND BECK
	Part Number	14007393
	Rivets/Plate	
	Rivet size	
	Outside & inside dia.	(10.34 x 6.50)
	Total eff. area - cm^2 ($in.^2$)	(101.56)
	Thickness	(.305)
	Engagement cushion-method	DRIVEN PLATE WAVE SPOKE BEARINGS
Release bearing	Type & method of lubrication	BALL THRUST - PREPACKED AND SEALED
Torsional damping	Methods: springs, friction material	COIL SPRINGS AND METAL TO METAL FRICTION

Drive Units —Transmissions

Manual 3-speed (std., opt., N.A.)	STANDARD
Manual 4-speed (std., opt., N.A.)	NOT AVAILABLE
Manual 5-speed (std., opt., N.A.)	NOT AVAILABLE
Manual overdrive (std., opt., N.A.)	NOT AVAILABLE
Automatic (std., opt., N.A.)	OPTIONAL

Drive Units — Manual Transmissions

Number of forward speeds			THREE
Transmission ratios	In first		3.11
	In second		1.84
	In third		1.00
	In fourth		—
	In fifth		—
In reverse			3.22
Synchronous meshing, specify gears			ALL FORWARD
Shift lever location			
Lubricant	Capacity—L (pt.)		(3.5)
	Type recommended		GL5 GEAR LUBE
	SAE viscosity number	Summer	80W OR 80W-90
		Winter	80W OR 80W-90
		Extreme cold	80W OR 80W-90

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MVMA Specifications Form
Passenger Car
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Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (•)

Engine Description/Carb.	3.8/2 (LD5)	4.3/2 (LS5)	4.9/4 (L37)	4.9/4 (L37+W72)	4.9/T (LU8)	5.0/4 (LG4)

Drive Units—Automatic Transmission

Trade name		TURBO HYDRAMATIC					
Type (describe)		3-SPEED WITH TORQUE CONVERTER					
Selector location		STEERING COLUMN - FLOOR WITH CONSOLE					
Gear Ratios	P	PARK					
	R	1.92			2.07	1.92	
	N	NEUTRAL					
	D	2.52,1.52,1.00			(a)	2.52,1.52,1.00	
	L2	2.52,1.52			2.74,1.57	2.52,1.52	
	L1	2.52			2.74	2.52	
Max. upshift speed—drive range—km/h (mph)		129(80)	134(83)	146(91)	119(74)	108(67)	111(69)
Max. kickdown speed—drive range—km/h (mph)		124(77)	129(80)	137(85)	113(70)	101(63)	106(66)
Torque Converter	Number of elements	THREE					
	Max. ratio at stall	2.6	2.1	2.4	2.1	2.2	2.0
	Type of cooling (air, liquid)	LIQUID					
	Nominal diameter	298		310	298		
Lubricant	Capacity—refill—L (pt.)	3 (6)			4 (8)	3 (6)	
	Type recommended	GM DEXRON II					
Special transmission features			TCC*		TCC*		

Drive Units—Axle

Type (front, rear)		REAR	
Description		SEMI-FLOATING HYPOID	
Limited Slip differential, type		SPRING LOADED CLUTCH-OPTIONAL	
Drive Pinion Offset		1.75	
No. of differential pinions		TWO	
Pinion adjustment (shim, other)		SHIM	
Pinion bearing adj. (shim, other)		COLLAPSIBLE SPACER	
Wheel bearing type		ROLLER BEARING	
Lubricant	Capacity—L (pt.)	4.25	
	Type recommended	GL5 GEAR LUBE	
	SAE viscosity number — Summer	80W OR 80W-90	
	SAE viscosity number — Winter	80W OR 80W-90	
	SAE viscosity number — Extreme cold	80W OR 80W-90	

Axle Ratio Tooth Combinations (See "Power Teams" for axle ratio usage.)

Axle Ratio		2.56,2.73,3.08,3.23				2.41	2.41	3.08	3.08	2.56,3.08	
No. of teeth	Pinion	16	15	13	13	17	16	13	13	17	13
	Ring gear	41	41	40	42	41	41	40	40	41	40
Ring Gear O. D.							8.5				
Transaxle	Transfer Gear Ratio										
	Final Drive Ratio										

* TORQUE CONVERTER CLUTCH
(a) 2.74/1.57/1.00

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Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (*) _____

Engine Description/Carb.	231/LD5	ALL V8

Drive Units—Propeller Shaft

Number used			ONE	
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Right	STRAIGHT TUBE	
		Left		
Outer diam. x length* x wall thickness	Manual 3-speed trans.		2.74x49.55x.065	NOT AVAILABLE
	Manual 4-speed trans.		NOT AVAILABLE	2.75 x 48.0 x .065
	Manual 5-speed trans.		NOT AVAILABLE	
	Overdrive		NOT USED	
	Automatic transmission		2.75 x 49.55 x .065	2.75 x 48.55 x .065
Intermediate bearing	Type (plain, anti-friction)		NOT USED	
	Lubrication (fitting, prepack)		NOT USED	
Slip Yoke	Type		SPLINED	
	Number of teeth		27	
	Spline O. D.		1.175	
Universal joints	Make and Mfg. No.	Inner	SAGINAW SIZE 44	
		Outer	SAGINAW SIZE 44	
	Number used		TWO	
	Type (ball and trunnion, cross)		CROSS	
	Rear attach (u-bolt, clamp, etc.)		STRAP & BOLT	
	Bearing — Type (plain, anti-friction)		ANTI-FRICTION	
	Bearing — Lubric. (fitting, prepack)		PREPACKED	
Drive taken through (torque tube or arms, springs)			SPRINGS	
Torque taken through (torque tube or arms, springs)			SPRINGS	

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

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Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (*)

Engine Description/Carb.	FIREBIRD	FIREBIRD ESPRIT	FIREBIRD FORMULA	FIREBIRD TRANS AM	SPECIAL PERF. TRANS AM

Drive Units—Tires And Wheels (Standard)

TIRES	Size, load range, ply		P205/75R15	P225/70R15	P255/70R15
	Type (bias, radial, etc.)		STEEL BELTED RADIAL		
	Inflation pressure (cold) for recommended max. vehicle load	Front—kPa (psi)	(30)		
		Rear—kPa (psi)	(30)		
	Rev./mile—at 70 km/h (45 mph)		769	763	
WHEELS	Type & material		DISC, STEEL		CAST ALUM.
	Rim (size & flange type)		15 x 6JJ	15 x 7JJ	15 x 8JJ
	Wheel offset		(.50)	(.34)	ZERO
	Attachment	Type (bolt or stud)	STUD		
		Circle diameter	4.75		
		Number & size	5-7/16-20		
	Spare wheel (same or other)		STOWAWAY OPTIONAL	14x6 STOWAWAY SPARE STANDARD	

Drive Units—Tires And Wheels (Optional)

Size, load range, ply	F78 x 14B	AVAILABLE AS SPACE SAVER
Type (bias, radial, etc.)	BIAS	SPARE TIRE OPTION IN FIREBIRD
Wheel type & material	DISC, STEEL	AND ESPRIT
Rim (size, flange type, and offset)	14 x 5 x .20	
Size, load range, ply	G78 x 15B	BASE STOWAWAY ON FORMULA,
Type (bias, radial, etc.)	BIAS	TRANS AM AND PERFORMANCE
Wheel type & material	DISC, STEEL	TRANS AM
Rim (size, flange type, and offset)	14 x 6 x .50	
Size, load range, ply	P225/70R15 or P205/75R15	
Type (bias, radial, etc.)	RADIAL	
Wheel type & material	CAST ALUMINUM	
Rim (size, flange type, and offset)	15 x 7JJ x .34	
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		

Brakes—Parking

Type of control		FOOT LEVER APPLICATION - HAND PULL RELEASE
Location of control		BELOW INSTRUMENT PANEL AT LEFT OF STEERING COLUMN
Operates on		REAR SERVICE BRAKES
If separate from service brakes	Type (internal or external)	NOT SEPARATE
	Drum diameter	NOT SEPARATE
	Lining size (length x width x thickness)	NOT SEPARATE

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Car Line FIREBIRD
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Body Type And/Or Engine Displacement

ALL

Brakes—Service

Brake Type (std., Opt., N.A.)	Drum	Front		NOT AVAILABLE
		Rear		STANDARD
	Disc	Front		STANDARD
		Rear		OPTIONAL
Self-adjusting (std., opt., N.A.)				STANDARD
Special Valving	Type (proportion, delay, metering, other)			METERING AND PROPORTIONING
Power Brake (std., opt., N.A.)				STANDARD WITH V8 ENGINES - OPTIONAL WITH V6 ENGINE
Booster Type (remote, integral, vac., hyd., etc.)				INTEGRAL
Anti-skid device type (std., opt., N.A.)				
Effective area—cm^2 ($in.^2$)*				112.0
Gross lining area—cm^2 ($in.^2$)**				115.6
Swept area—cm^2 ($in.^2$)***				
Rotor	Outer working diameter		F	(11.0)
			R	
	Thickness		F	(1.03)
			R	
	Material & type (vented/solid)		F	CAST IRON - VENTED
			R	
Drum	Diameter (nominal)	REAR		(9.5)
	Type and material			COMPOSITE, FINNED, CAST IRON-STEEL WEB
Wheel cylinder bore	Front			(2.9375)
	Rear			(.938)
Master Cylinder	Bore			1.00 (MANUAL) - 1.125 (POWER)
	Stroke			
Pedal arc ratio				6.22:1 (MANUAL) - 3.58:1 (POWER) 3.00:1 (OPT)
Line pressure at 445 N (100 lb.) pedal load—MPa (psi)				
Lining Clearance Per Shoe	Front			SELF ADJUSTING
	Rear			SELF ADJUSTING
Brake lining	Front Wheel	Bonded or riveted, rivets/seg.		RIVETED
		Rivet size		(.210 x .379)
		Manufacturer		DELCO MORAINE
		Lining Code		
		Material		MOLDED ASBESTOS
		**** Size Prim. or out-board		(5.40 x 1.92 x 0.465)
		**** Size Second or in-board		(5.40 x 1.92 x 0.465)
		Shoe thickness (no lining)		.540
	Rear Wheel	Bonded or riveted, rivets/seg.		RIVETED
		Manufacturer		DELCO MORAINE
		Lining Code		
		Material		MOLDED ASBESTOS
		**** Size Prim. or out-board		(7.30 x 2.0 x 0.23)
		**** Size Second or in-board		(9.46 x 2.0 x 0.23)
		Shoe thickness (no lining)		(PRIMARY .275; SECONDARY .305)

*Excludes rivet holes, grooves, chamfers, etc.
**Includes rivet holes, grooves, chamfers, etc.
***Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus Square of Inner Working Dia. multiplied by π/2 for each brake.)
****Size for drum brakes includes length x width x thickness.

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	ALL

Steering

Manual (std., opt., N.A.)				NOT AVAILABLE
Power (std., opt., N.A.)				STANDARD
Adjustable steering wheel (tilt, swing, other)		Type and description		STEERING SHAFT TILTS VERTICALLY AT BASE OF STEERING WHEEL
		(Std., opt., N.A.)		OPTIONAL
Wheel diameter		Manual		NOT AVAILABLE
		Power		(15.25 x 14.75) VERTICAL ; (14.25)DIAMETER-OPTIONAL(a)
Turning diameter m(feet)	Outside front	Wall to wall (l. & r.)		(41.3 FT.)
		Curb to curb (l. to r.)		(38.9 FT.)
	Inside rear	Wall to wall (l. to r.)		—
		Curb to curb (l. to r.)		—
Manual	Gear	Type		
		Make		NOT AVAILABLE
		Ratios	Gear	
			Overall	
	No. wheel turns (stop to stop)			
Power	Type (coaxial, linkage, etc.)			COAXIAL
	Make			SAGINAW
	Gear	Type		RECIRCULATING BALL BEARING
		Ratios	Gear	15.0 - 13.0:1 (b)
			Overall	16.5 - 14.3:1
	Pump driven by			BELT FROM CRANKSHAFT
	No. wheel turns (stop to stop)			2.41
Linkage	Type			LINK PARALLELOGRAM
	Location (front or rear of wheels, other)			FRONT
	Drag links (trans. or longit.)			TRANSVERSE ROD CONNECTS TIE RODS, PITMAN & IDLER ARM
	Tie rods (one or two)			TWO
Steering Axis	Inclination at camber (deg.)			10.35° @ 1°
	Bearings (type)	Upper		BALL JOINT
		Lower		BALL JOINT
		Thrust		BALL JOINT
Steering spindle & joint type				REVERSE ELLIOTT - BALL JOINT
Wheel Spindle	Diameter	Inner bearing		(1.2493 - 1.2498)
		Outer bearing		(0.7492 - 0.7498)
	Thread size			(3/4 - 20)
	Bearing type			TAPER ROLLER
Wheel Align at curb mass (wt.)	Service checking	Caster (deg.)		$+1^{\circ} \pm 1^{\circ}$
		Camber (deg.)		$+1^{\circ} \pm .8^{\circ}$
		Toe-in (outside track-mm (in.))		$+.06^{\circ} \pm .12^{\circ}$ PER WHEEL
	Service reset	Caster		$+1^{\circ} \pm .5^{\circ}$
		Camber		$+1^{\circ} \pm .5^{\circ}$
		Toe-in		$+.06^{\circ} \pm .06^{\circ}$ PER WHEEL
	Periodic M.V. Inspection	Caster		$+1^{\circ} \pm 1^{\circ}$
		Camber		$+1^{\circ} \pm .8^{\circ}$
		Toe-in		$+.06^{\circ} \pm .12^{\circ}$ PER WHEEL

(a) STANDARD ON TRANS AM (b) 14:1 WITH TRANS AM AND FORMULA

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Car Line FIREBIRD

Model Year 1980 Issued 6-1-79 Revised (*) _____

Body Type And/Or Engine Displacement
ALL

Suspension — General

(See Supplement page for details on Air Suspension)

Provision for car leveling		SPRINGS
Provision for brake dip control		FRONT SUSPENSION GEOMETRY
Provision for acc. squat control		REAR SUSPENSION GEOMETRY
Special provisions for car jacking		JACK LOCATING PROVISIONS ON FRONT AND REAR BUMPERS
Shock absorber front & rear	Type	DIRECT, DOUBLE-ACTING HYDRAULIC
	Make	DELCO
	Piston dia.	(1.00)
Other special features		

Suspension — Front

Type and description		INDEPENDENT SLA TYPE WITH COIL SPRINGS
Travel	Full jounce	(3.00)
	Full Rebound	(3.75)
Spring	Type (coil, leaf, other)	COIL
	Material	ALLOY STEEL
	Size (coil design height & I.D., bar length x dia.)	(11.0 x 4.05; 116.10 x 0.617) (a)
	Spring rate — N/mm (lb./in.)	(330)(a)
	Rate at wheel — N/mm (lb./in.)	(82) (a)
Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	STEEL:(1.00) (EXC. FORMULA & TA):(1.25) (FORM & TA +WS6)

Suspension — Rear

Type and description			SALISBURY AXLE WITH MULTIPLE LEAF SPRINGS
Drive and torque taken through			REAR SPRINGS
Travel	Full Jounce		(3.80)
	Full Rebound		(3.73)
Spring	Type (coil, leaf, other)		MULTIPLE LEAF
	Material		ALLOY STEEL
	Size (length x width, coil design height & I.D., bar length & dia.)		(56.0 x 2.50) (a)
	Spring rate—N/mm (lb./in.)		(97 lb in) (a)
	Rate at wheel—N/mm (lb./in.)		(97 lb in) (a)
	Mounting insulation type		RUBBER BUSHED AT SHACKLE AND HANGER
	If leaf	No. of leaves	4,5 (a).
		Shackle (comp. or tens.)	COMPRESSION
Stabilizer	Type (link, linkless, frameless)		LINK
	Material & bar diameter		STEEL:(.750) (TA+WS6):(.625) (FORMULA)
Track bar type			NONE

(a) FOR BASE EQUIPPED MODEL. SPRINGS FOR ALL MODELS ARE COMPUTER SELECTED FOR SIZE AND RATE ACCORDING TO VEHICLE WEIGHT, INCLUDING OPTIONAL EQUIPMENT.

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MVMA Specifications Form
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Car Line FIREBIRD
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Body Type
ALL

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)		YES
Hinge Location (front, rear)		EXTERNAL
Hood counterbalance (type)		TOP LH SIDE OF INSTRUMENT PANEL - VISIBLE THRU WINDSHIELD
Hood release control (internal, external)		
Vehicle Ident. No. Location		
Vent window control method (crank, friction pivot, power)	Front	NONE
	Rear	NONE
Seat cushion type	Front	MOLDED FOAM PAD
	Rear	MOLDED FOAM PAD
	3rd Seat	—
Seat back type	Front	MOLDED FOAM PAD
	Rear	MOLDED FOAM PAD
	3rd seat	—
Method of holding luggage compart. lid open		TORSION RODS
Position of spare tire storage		

Frame

Type and description (Separate frame, unitized frame, partially-unitized frame)	PARTIALLY - UNITIZED FRAME

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METRIC (U.S. Customary)

Car Line FIREBIRD

Model Year 1980 Issued 6-1-79 Revised (*) .

Body Type
ALL

Convenience Equipment

Power windows	Side Windows	OPTIONAL
	Vent windows	NOT AVAILABLE
	Backlight or tailgate	NOT AVAILABLE
Power seats (specify type as well as availability)		NOT AVAILABLE
Reclining front seat back (R-L or both)		NOT AVAILABLE
Radios (specify type as well as availability)		OPT: AM, AM-FM, AM-FM STEREO, AM W/TAPE, AM-FM STEREO W/TAPE, AM-FM MONO W/CB, AM-FM STEREO W/CB, AM-FM STEREO W/DIGITAL CLOCK
Rear seat speaker		OPTIONAL
Power antenna		OPTIONAL - STANDARD WITH CITIZENS BAND
Clock		OPTIONAL
Air conditioner (specify type)		OPTIONAL: MANUAL TEMPERATURE CONTROL
Speed warning device		NOT AVAILABLE
Speed control device		OPTIONAL (N.A. WITH 403 V8)
Ignition lock lamp		NOT AVAILABLE
Dome lamp		STANDARD - DOME AND READING LAMP OPTIONAL
Glove compartment lamp		OPTIONAL
Luggage compartment lamp		OPTIONAL
Underhood lamp		NOT AVAILABLE
Courtesy lamp		OPTIONAL
Map lamp		NOT AVAILABLE
Cornering lamp		NOT AVAILABLE
Rear window defroster electrically heated		OPTIONAL
Rear window defogger		NOT AVAILABLE
Theft protection—type		
POWER DOOR LOCKS		OPTIONAL
FUEL ECONOMY GAUGE		NOT AVAILABLE
DECK LID RELEASE		OPTIONAL

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Passenger Car
METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (*) 7-31-79

	Model	Vehicle Mass (Weight)							
		CURB MASS, kg. (Weight, lb.)*			% PASS. WEIGHT DISTRIBUTION				SHIPPING MASS, kg (Weight, lb.)**
					Pass. in Front		Pass. in Rear		
		Front	Rear	Total	Front	Rear	Front	Rear	
	FIREBIRD:								
	2-DR HARDTOP CPE 2FS87	844.5	688.3	1532.8	40.7	59.3	15.3	84.7	1482.8
		(1861.8)	(1517.4)	(3379.2)					(3269.0)
	2-DR HARDTOP CPE 2FT87	850.0	698.7	1548.7	40.7	59.3	15.3	84.7	1498.7
	(W67)	(1873.9)	(1540.3)	(3414.2)					(3304.0)
(.)	2-DR HARDTOP CPE 2FV87	895.1	701.8	1596.9	40.7	59.3	15.3	84.7	1546.9
	(W66)	(1973.3)	(1547.2)	(3520.5)					(3410.3)
	2-DR HARDTOP CPE 2FW87	898.1	707.4	1605.5	40.7	59.3	15.3	84.7	1555.5
	(WS4)	(1980.0)	(1559.5)	(3539.5)					(3429.2)

*Reference — SAE J1100a, Motor Vehicle Dimensions, Curb Weight Definition.
**Shipping Mass (Weight) definition—

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Car Line FIREBIRD
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Optional Equipment Mass (Weight)*

	Equipment Differential Mass (Weights)		MASS, kg. (Weight, lb.) Front	Rear	Total	Remarks
	305 4BBL ENG	LG4	41.9 (92.4)	5.4 (11.9)	47.3 (104.3)	ALL
	265 2BBL ENG	LS5	29.8 (65.7)	3.2 (7.1)	33.0 (72.8)	ALL
(.)	301 4BBL ENG	L37	33.4 (73.6)	4.6 (10.1)	38.0 (83.7)	WITH M33 TRANS
(.)	301 4BBL +W72		34.0 (75.0)	5.1 (11.2)	39.1 (86.2)	WITH MV9 TRANS.
	301 4BBL TURBO ENG.	LU8	53.8 (118.6)	6.9 (15.2)	60.7 (133.8)	ALL
	3-SPEED AT	MV9	-1.4 (-3.1)	-.7 (-1.5)	-2.1 (-4.6)	WITH L37 ENG & W72 OPT.
	3-SPEED AT	M31	4.1 (9.0)	1.8 (4.0)	5.9 (13.0)	WITH LS5 ENGINE
	3-SPEED AT	M33	7.0 (15.4)	3.1 (6.8)	10.1 (22.3)	WITH L37 LU8 ENG.
	3-SPEED AT	M38	4.8 (10.6)	2.1 (4.7)	6.9 (15.3)	WITH LD5, LG4 ENG
	CUSTOM AC		34.5 (76.1)	-0- -0-	34.5 (76.1)	WITH LD5 ENGINE
			43.1 (95.0)	.4 (.9)	43.5 (95.9)	WITH LG4, LS5, L37 ENGINE
			36.7 (80.9)	-0- -0-	36.7 (80.9)	WITH LU8 ENGINE
	POWER DISC BRAKES		4.1 (9.0)	.5 (1.1)	4.6 (10.1)	ALL
	POWER WINDOWS		1.8 (4.0)	1.8 (4.0)	3.6 (8.0)	ALL
	RADIO-AM WITH TAPE		3.4 (7.5)	3.0 (6.6)	6.4 (14.1)	ALL

*Also see Engine — General Section for dressed engine mass (weight).

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MVMA Specifications Form
Passenger Car
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Car Line FIREBIRD

Model Year 1980 Issued 6-1-79 Revised (•) 7-31-7

Optional Equipment Mass (Weight)*

Equipment Differential Mass (Weights)	MASS, kg. (Weight, lb.) Front	Rear	Total	Remarks
RADIO-AM/FM STR TAPE	3.6 (7.9)	3.0 (6.6)	6.6 (14.5)	ALL
RADIO-AM/FM STR CAS TAPE	3.6 (7.9)	3.0 (6.6)	6.6 (14.5)	ALL
RADIO-AM/FM STR W/CB	5.2 (11.5)	5.0 (11.0)	10.2 (22.5)	ALL
RADIO-AM/FM STR	4.0 (8.8)	3.6 (7.9)	7.6 (16.7)	ALL
RADIO-AM	2.1 (4.6)	.8 (1.8)	2.9 (6.4)	ALL
RADIO-AM/FM	2.6 (5.7)	.8 (1.8)	3.4 (7.5)	ALL
RADIO-AM/FM STR SEEK DIG.	3.8 (8.4)	3.5 (7.7)	7.3 (16.1)	ALL
REAR SEAT SPEAKER	.4 (.9)	1.8 (4.0)	2.2 (4.9)	ALL
(.) CUSTOM AIR CONDITIONING	34.5 (76.1)	-	34.5 (76.1)	ALL WITH LD5
	43.1 (95.0)	.4 (.9)	43.5 (95.9)	ALL WITH LG4, LS5, L37, LU8

*Also see Engine — General Section for dressed engine mass (weight).

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MVMA Specifications Form
Passenger Car

Car Line FIREBIRD

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METRIC (U.S. Customary)

Car and Body Dimension See Key Sheets, for definitions.

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. No. refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

	SAE Ref. No.	Body Type: 2-DOOR HARDTOP COUPE
Width		
Tread — Front	W101	(.) 1557 (61.3)
Tread — Rear	W102	(.) 1524 (60.0)
Vehicle width	W103	(.) 1854 (73.0)
Body width at Sg RP — front	W117	(.) 1842 (72.5)
Vehicle width — front doors open	W120	(.) 3569 (140.5)
Vehicle width — rear doors open	W121	
Length		
Wheelbase	L101	(.) 2748 (108.2)
Vehicle length	L103	(.) 5031 (198.1)
Overhang — front	L104	(.) 1120 (44.1)
Overhang — rear	L105	(.) 1163 (45.8)
Upper structure length	L123	(.) 2393 (94.2)
Rear wheel C/L "X" coordinate	L127	(.) 2205 (86.8)
Cowl point "X" coordinate	L125	(.) 239 (9.4)
Height*		
Passenger Distribution (frt./rear)	P01,2,3	(.) 2/2
Trunk/Cargo load		-
Vehicle height	H101	(.) 1252 (49.3)
Cowl point to ground	H114	(.) 907 (35.7)
Deck point to ground	H138	(.) 942.3 (37.1)
Rocker panel front to ground	H112	(.) 170 (6.7)
Bottom of door closed-front to grd.	H133	(.) 244 (9.6)
Rocker panel rear to ground	H111	(.) 145 (5.7)
Bottom of door closed-rear to grd.	H135	—
Ground Clearance*		
Front bumper to ground	H102	(.) 297 (11.7)
Rear bumper to ground	H104	(.) 259 (10.2)
Bumper to ground—front at curb mass (wt.)	H103	(.) 368.3 (14.5)
Bumper to ground—rear at curb mass (wt.)	H109	(.) 332.7 (13.1)
Angle of approach	H106	(.) 18.4
Angle of departure	H107	(.) 10.4
Ramp breakover angle	H147	(.) 10.3
Rear axle differential to ground	H153	(.) 173 (6.8)
Min. running ground clearance	H156	(.) 117 (4.6)
Location of min. run. grd. clear.		CATALYTIC CONVERTER

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

*All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified. Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

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Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (•) 7-31-79

Car and Body Dimensions See Key Sheets for definitions

	SAE Ref. No.		Body Type ALL
Front Compartment			
Sg RP front, "X" coordinate	L31	(.)	1087 (42.8)
Effective head room	H61	(.)	937 (36.9)
Effective T Point head room	H75	(.)	942 (37.1)
Max. eff. leg room—accelerator	L34	(.)	1115 (43.9)
Sg RP — front to heel	H30	(.)	155 (6.1)
Design H-point front travel	L17	(.)	127 (5.0)
Shoulder room	W3	(.)	1458 (57.4)
Hip room	W5	(.)	1405 (55.3)
Upper body opening to ground	H50	(.)	1133 (44.6)
Steering Wheel Angle	H18		17.6°
Back Angle	L40		(26.0)
Rear Compartment			
Sg RP Point couple distance	L50	(.)	693 (27.3)
Effective head room	H63	(.)	907 (35.7)
Effective T Point head room	H76	(.)	902 (35.5)
Min. effective leg room	L51	(.)	921 (28.4)
Sg RP—second to heel	H31	(.)	213 (8.4)
Knee clearance	L48	(.)	-62 (-2.4)
Compartment room	L3	(.)	577 (22.7)
Shoulder room	W4	(.)	1382 (54.4)
Hip room	W6	(.)	1176 (46.3)
Upper body opening to ground	H51		-
Luggage Compartment			
Usable luggage capacity—L (cu. ft.)	V1	(.)	201.5 (7.1)
Liftover height	H195	(.)	693 (27.3)

All linear dimensions are in millimeters (inches).

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MVMA Specifications Form
Passenger Car

Car Line FIREBIRD
Model Year 1980 Issued 6-1-79 Revised (•)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

	Body Type
SAE Ref. No.	

Station Wagon — Third Seat

NOT APPLICABLE

Shoulder room	W65	
Hip room	W66	
Effective leg room	L86	
Effective head room	H86	
Effective T Point head room	H89	
Seat facing direction	SD1	

Station Wagon — Cargo Space

Cargo length—open—front	L200	
Cargo length—open—second	L201	
Cargo length—closed—front	L202	
Cargo length—closed—second	L203	
Cargo length at belt—front	L204	
Cargo length at belt—second	L205	
Cargo width—wheelhouse	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tail gate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index—m^3 ($ft.^3$)	V2	
Hidden cargo volume—m^3 ($ft.^3$)	V4	

Hatchback — Cargo Space

Front seat back to load floor height	H197	
Cargo length at front seat Back Height	L208	
Cargo length at floor—front	L209	
Cargo volume index—m^3 ($ft.^3$)	V3	
Hidden cargo volume—m^3 ($ft.^3$)	V4	

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).