PONTIAC MOTOR DIVISION GENERAL MOTORS CORPORATION PONTIAC, MICHIGAN

2W8778L147701 2A 105242000

CAR DESCRIPTION	SUGGESTED RETAIL PRICE
FIREBIRD TRANS AM	5799.00

INVOICE AMOUNT	D&H*	DATE SHIPPED	DATE OF EXECUTION	EXPIRATION OF TRANSIT TIME	INTEREST DATE
5032.95	14.00	03-08-78	03-08-78	03-21-78	04-10-78

DEALER ORDER NO	COLOR	SOS	KEY NUMBERS IGN	KEY NUMBERS TRK	NVI HOURS	HORSE POWER	WEIGHT	S C
JF9412	24L24U11N1	1	E771	H797	2.5	54.3	3511	A

OPTION CODE	DESCRIPTION	SUGGESTED RETAIL PRICE	INVOICE AMOUNT
B84	MOLDING, BODY SIDE	42.00	32.76
AK1	BELTS, CUSTOM COLOR KEYED	21.00	16.38
C49	DEFROSTER, ELECTRIC REAR WINDOW	92.00	71.76
A01	GLASS, ALL WINDOWS SOFT RAY	56.00	43.68
WW7	HOOD DECAL	66.00	51.48
Y92	LAMP GROUP	18.00	14.04
B80	MOLDING, ROOF DRIP	20.00	15.60
UN9	RADIO ACCOMMODATION PACKAGE	26.00	20.28
YJ8	WHEELS, CAST ALUMINUM	173.00	134.94
Y90	CUSTOM TRIM GROUP-VINYL	99.00	77.22
QCY	TIRES, GR70X15 WL STL	51.00	39.78
	TIRE TAX ADJ.		

+

PONTIAC GM

INVOICE TOTALS

MSRP	6,595.00
INVOICE AMT	5,550.87
HOLDBACK	128.98
ADV ASSN 115	35.00
D&H*	14.00
DFC	132.00
INVOICE TOTAL	5,731.87
LESS HOLDBACK	128.98
LESS ADV ASSN	35.00
MEMO AMOUNT LESS H B & ADV	5,567.89

FOR VALUABLE CONSIDERATION PONTIAC MOTOR DOES HEREBY GRANT, SELL, TRANSFER, AND DELIVER UNTO THE DEALER BELOW THE MOTOR VEHICLE DESCRIBED ABOVE WHICH IS SUBJECT TO A SECURITY INTEREST HELD BY GENERAL MOTORS ACCEPTANCE CORPORATION (GMAC) AND MORE FULLY DESCRIBED IN THE WHOLESALE SECURITY AGREEMENT EXECUTED BETWEEN THE DEALER AND GMAC

PMD CODE / GM CODE
NAME AND ADDRESS 11 509

DEALER WILDE PONTIAC, INC.
1603 E MORELAND BLVD
WAUKESHA WI. 53186

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 6, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

THIS INVOICE MAY NOT REFLECT THE ULTIMATE COST OF THE VEHICLE IN VIEW OF THE POSSIBILITY OF FUTURE REBATES, ALLOWANCES, DISCOUNTS AND INCENTIVE AWARDS FROM MANUFACTURER TO DEALER

*D&H AMOUNT REFLECTS PROVISION FOR PASS THROUGH OF TIRE WEIGHT TAX IMPOSED ON MANUFACTURER OR IMPORTER OF TIRES

PSC F63051

PLEASE DETACH AND FORWARD WITH REMITTANCE TO GMAC

DEALER NAME

WILDE PONTIAC, INC.
1603 E MORELAND BLVD
WAUKESHA WI. 53186

PMD CODE 11 509 GM CODE GMAC BR 036

EXPIRATION OF TRANSIT TIME	INTEREST DATE	INVOICE NO	VEHICLE IDENT NO	INVOICE AMOUNT
03-21-78	04-10-78	2A 105242000	2W8778L147701	$ 5,731.87

AVAILABLE ALL PONTIAC MODELS

11—Cameo White
Recommended interior colors: Black, White, Blue, Green, Camel Tan, Carmine

15—Platinum
Recommended interior colors: Black, White, Blue, Carmine

19—Starlight Black
Recommended interior colors: Black, White, Blue, Green, Camel Tan, Carmine

22—Glacier Blue
Recommended interior colors: Black, White, Blue

63—Laredo Brown
Recommended interior colors: Black, White, Camel Tan

67—Ember Mist
Recommended interior colors: Black, White

69—Chesterfield Brown
Recommended interior colors: Black, White, Camel Tan

77—Carmine
Recommended interior colors: Black, White, Carmine

AVAILABLE LE MANS, LE MANS SAFARI, GRAND LE MANS, GRAND LE MANS SAFARI, GRAND PRIX, GRAND PRIX SJ, GRAND PRIX LJ, CATALINA, CATALINA SAFARI, BONNEVILLE, BONNEVILLE BROUGHAM AND GRAND SAFARI MODELS

21—Dresden Blue
Recommended interior colors: Black, White, Blue

29—Nautilus Blue
Recommended interior colors: Black, White, Blue

45—Mayfair Green
Recommended interior colors: Black, White, Green

79—Claret
Recommended interior colors: Black, White, Carmine

AVAILABLE SUNBIRD, SUNBIRD SAFARI, PHOENIX, PHOENIX LJ AND FIREBIRD MODELS

24—Martinique Blue
Recommended interior colors: Black, White, Blue

***48—Berkshire Green**
Recommended interior colors: Black, White

***51—Sundance Yellow**
Recommended interior colors: Black, White, Camel Tan

75—Mayan Red
Recommended interior colors: Black, White

*Except Trans Am

AVAILABLE ALL PONTIAC MODELS EXCEPT FIREBIRD

44—Seafoam Green
Recommended interior colors: Black, White, Green

61—Desert Sand
Recommended interior colors: Black, White, Camel Tan

EXCLUSIVE SKYBIRD COLOR
30—Lombard Blue
Recommended interior color: Blue.

EXCLUSIVE TRANS AM COLOR
50—Solar Gold
Recommended interior colors: Black, White, Camel Tan

EXCLUSIVE GRAND AM COLOR
72—Roman Red
Recommended interior colors: White, Black or Carmine. Available with 15—Platinum lower accent.

SPECIFIC TWO-TONE COLOR
16—Dark Charcoal
Recommended interior colors: Black, Carmine. Available only with 15—Platinum upper.

SPECIFIC TWO-TONE & ACCENT COLOR
56—Burnished Gold
Recommended interior color: Camel Tan. Lower accent color for Grand Am.

FIREBIRD TRANS AM EXTERIOR PAINT SELECTION
11—Cameo White, 15—Platinum, 19—Starlight Black, 24—Martinique Blue, 50—Solar Gold, 69—Chesterfield Brown, 75—Mayan Red

Firebird hood emblem:

Charcoal/Red
Exterior color choices: 11—Cameo White, 15—Platinum

Gold-Yellow/Orange
Exterior color choices: 19—Starlight Black, 24—Martinique Brown, 69—Chesterfield Brown, 75—Mayan Red

Gold/Matte Gold
Exterior color choice: 19—Starlight Black S.E.

Gold/Bronze
Exterior color choices: 50—Solar Gold

FIREBIRD SKYBIRD EXCLUSIVE EXTERIOR AND INTERIOR COLOR COMBINATION
30—Lombard Blue with 24N1 Trim—Blue Doeskin or 2481 Trim—Blue Lombardy

GRAND AM EXTERIOR PAINT AND LOWER BODY (ACCENT) COLOR COMBINATIONS
11—Cameo White (Burnished Gold or Glacier Blue), 15—Platinum (Carmine), 19—Starlight Black (Burnished Gold), 29—Nautilus Blue (Platinum), 44—Seafoam Green (Mayfair Green), 61—Desert Sand (Burnished Gold), 69—Chesterfield Brown (Burnished Gold), 72—Roman Red (Platinum)

1978 ENGINE I.D.

HP	DISP	TRANS	BLOCK	C.R.	SERIES	CAM	HEADCAST	CARB & NUMBER
140	301	A	XA,XC XL,YM	8.2	B&B-WAG	471	01	1-2 17058160
140	301	A	XD,XB YL,YP	8.2	A&G	471	01	1-2 17058160
150	301	A	XF,XH	8.2	B	464	01	1-4 17058272
150	301	A	XU,XW	8.2	A&G	464	01	1-4 17058272
180	400	A	XJ,XK,X9	8.2	B&		6X (8)	1-4 17058274
			YK,YH		B-WAG		6X (8)	1-4 17058264
			YS,YT YJ,YR,YW					
180	400	A	YA,YU	7.7	F	471	6X (8)	1-4 17058276, 78
220	400	A	X7	8.1	F (W-72)*	402	6X (4)	1-4 17058266
220	400	M	WC	8.1	F (W-72)*	402	6X (4)	1-4 17058263

* W72 engine option identified as TA 6.6 Litre Option.
Intake & exhaust valve sizes on 301 are 1.72 (Int.), 1.50 (Exh)
Intake & exhaust valve sizes on 400 are 2.11 (Int.), 1.66 (Exh)

Vinyl Interiors—**DOESKIN**
Coupe and Sedan

Interior Colors	Trim No.	Exterior Colors
White	11V1	11,15,19,22,24,44,48,51,61,63,67,69,75,77
Black	19V1	11,15,19,22,24,44,48,51,61,63,67,69,75,77
Blue	24V1	11,15,19,22,24
Camel Tan	62V1	11,19,51,61,63,69
Carmine	74V1	11,15,19,77

Appointment Mix Interiors
(White Vinyl Interior with Colored Appointments)*
Coupe and Sedan

White/Blue	11V1/24X	11,15,19,22,24
White/Camel Tan	11V1/62X	11,19,51,61,63,69
White/Ember	11V1/67X	11,19,67
White/Carmine	11V1/74X	11,15,19,77

**Carpeting, Instrument Panel, Steering Column, Package Shelf.*

FIREBIRD

Standard Bucket Seats

Vinyl Interiors—**OXEN**
Firebird, Formula & Trans Am

Interior Colors	Trim No.	Exterior Colors
White	11R1	11,15,19,22,24,48,50,51,63,67,69,75,77
Black	19R1	11,15,19,22,24,48,50,51,63,67,69,75,77
Camel Tan	62R1	11,19,50,51,63,69
Carmine	74R1	11,15,19,77

Appointment Mix Interiors
(White Vinyl Interior with Colored Appointments)*
Firebird, Formula & Trans Am

White/Blue	11R1/24X	11,15,19,22,24
White/Camel Tan	11R1/62X	11,19,50,51,63,69
White/Ember	11R1/67X	11,19,69
White/Carmine	11R1/74X	11,15,19,77

**Carpeting, Instrument Panel, Steering Column, Package Shelf.*

FIREBIRD CUSTOM INTERIORS

Standard Bucket Seats (Esprit)

Extra Cost Bucket Seats
(Formula & Trans Am)

Vinyl Interiors—**DOESKIN**
(Standard) Esprit, (Extra Cost) Formula & Trans Am

Interior Colors	Trim No.	Exterior Colors
White	11N1	11,15,19,22,24,48,50,51,63,67,69,75,77
Black	19N1	11,15,19,22,24,48,50,51,63,67,69,75,77
Blue	24N1	11,15,19,22,24,30
Camel Tan	62N1	11,19,50,51,63,69
Carmine	74N1	11,15,19,77

Appointment Mix Interiors
(White Vinyl Interior with Colored Appointments)*
Esprit, Formula & Trans Am

Interior Colors	Trim No.	Exterior Colors
White/Blue	11R1/24X	11,15,19,22,24
White/Camel Tan	11R1/62X	11,19,50,51,63,69
White/Ember	11R1/67X	11,19,69
White/Carmine	11R1/74X	11,15,19,77

**Carpeting, Instrument Panel, Steering Column, Package Shelf.*

Extra Cost Custom Bucket Seats

Cloth Interiors—**LOMBARDY**
Esprit, Formula & Trans Am

Interior Colors	Trim No.	Exterior Colors
Black	19B1	11,15,19,22,24,48,50,51,63,67,69,75,77
Blue	24B1	11,19,22,24
Camel Tan	62B1	11,19,50,51,63,69
Carmine	74B1	11,15,19,77

LEMANS

Standard Full-Width Seat

Cloth Interiors—**DARBY**
Coupe and Sedan

Interior Colors	Trim No.	Exterior Colors
Black	19B2	11,15,19,21,22,29,44,45,61,63,67,69,77,79
Blue	24B2	11,15,19,21,22,29
Camel Tan	62B2	11,19,61,63,69

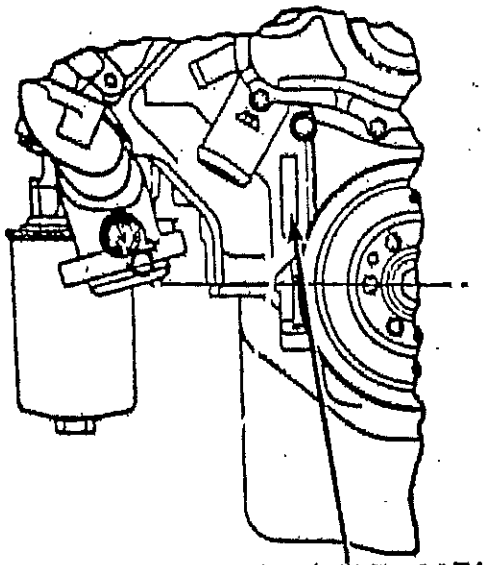
Extra Cost Full-Width Seat

Vinyl Interiors—**SIERRA**
Coupe and Sedan

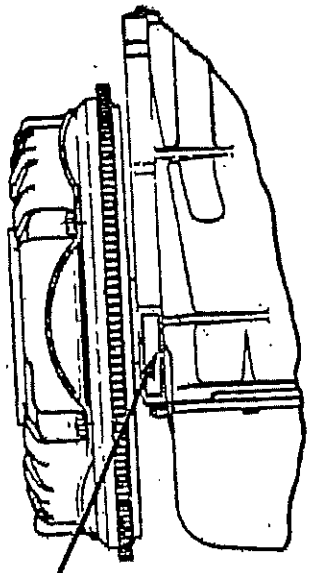
Interior Colors	Trim No.	Exterior Colors
White	11R2	11,15,19,21,22,29,44,45,61,63,67,69,77,79
Blue	24R2	11,15,19,21,22,29
Camel Tan	62R2	11,19,61,63,69
Carmine	74R2	11,15,19,77,79

Beginning with the 1968 model year a partial vin number was stamped on the engine. Below is shown the location of this stamping.

8-CYLINDER



6-CYLINDER



STAMP VEHICLE IDENTIFICATION NUMBER CONSISTING OF THE FIGURE 2 FOLLOWED BY THE LAST 8 DIGITS OF THE CAR SERIAL NUMBER.

1978

MVMA

Specifications Form

Passenger Car

Manufacturer	Car Line	
PONTIAC MOTOR DIVISION GENERAL MOTORS CORPORATION	FIREBIRD	
Mailing Address	Model Year	Issued: 9-15-77
ONE PONTIAC PLAZA PONTIAC, MICHIG AN 48053	1978	Revised (•)

MVMA Specifications Form
Passenger Car

Table Of Contents

NOTE: UNLESS OTHERWISE INDICATED:

a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
b. Nominal design dimensions are used throughout these specifications.
c. All dimensions are in inches and weights are in pounds.

• 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

MVMA Specifications Form
Passenger Car

Car Line FIREBIRD
Model Year 1978 Issued 9-15-77 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 (Pounds)
2-DOOR HARDTOP COUPE			
	FIREBIRD		
	2FS87	4 (2/2)	200
	FIREBIRD ESPRIT		
	2FT87	4 (2/2)	200
	FIREBIRD FORMULA		
	2FU87	4 (2/2)	200
	FIREBIRD TRANS AM		
	2FW87	4 (2/2)	200

MVMA Specifications Form
Passenger Car

Car Line FIREBIRD
Model Year 1978 Issued 9-15-77 Revised (•) _____

Car and Body Dimensions 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			
	FIREBIRD 2FS87	FIREBIRD ESPRIT 2FT87	FIREBIRD FORMULA 2FU87	FIREBIRD TRANS AM 2FW87
Width				
Tread - Front W101	61.3		61.6	
Tread - Rear W102	60.0		60.3	
Vehicle width W103	73.4			
Body width at Sq. RP - front W117				
Vehicle width - front doors open W120	140.5			
Vehicle width - rear doors open W121	--			
Length				
Wheelbase L101	108.2			
Vehicle length L103	196.8			
Overhang - front L104	42.8			
Overhang - rear L105	45.9			
Upper structure length L123	94.2			
Rear wheel C/L "X" coordinate L127	86.7			
Cowl point "X" coordinate L125	9.4			
Height*				
Passenger Distribution (front/rear) PD1,2,3	2/2			
Trunk/Cargo load (lbs.)	0			
Vehicle height H101	49.3	49.3	49.5	49.5
Cowl point to ground H114	35.7		35.9	
Deck point to ground H138	35.6		35.8	
Rocker panel - front: To ground H112	7.0		7.1	
Rocker panel - front: From front wheel C/L	36.4			
Bottom of door closed-front to grd. H133	9.6		9.8	
Rocker panel - rear: To ground H111	5.7		5.9	
Rocker panel - rear: From rear wheel C/L	16.7			
Bottom of door closed-rear to grd. H135	--			
Windshield slope angle H122	57.4			
Ground Clearance*				
Front bumper to ground H102	11.7		11.6	
Rear bumper to ground H104	10.2		10.5	
Bumper to grd. - front @ curb wt. H103	12.3			
Bumper to grd. - rear @ curb wt. H109	13.1			
Angle of approach H106	18.4		18.5	
Angle of departure H107	10.4		10.7	
Ramp breakover angle H147	10.3		10.6	
Rear axle differential to ground H153	6.8			
Min. running ground clearance H156	5.2		5.3	
Location of min. run. grd. clear.	CATALYTIC CONVERTER			

*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

MVMA Specifications Form
Passenger Car

Car Line FIREBIRD
Model Year 1978 Issued 9-15-77 Revised (●)

Car And Body Dimensions See Key Sheets for definitions

	SAE Ref. No.	Body Type: 2-DOOR HARDTOP COUPE			
		FIREBIRD	FIREBIRD ESPRIT	FIREBIRD FORMULA	FIREBIRD TRANS AM
		2FS87	2FT87	2FU87	2FW87
Front Compartment					
Sq. RP - front, "X" coordinate	L31	42.7			
Effective head room	H61	37.2			
Effective T Point head room	H75	37.4			
Max. eff. leg room - accelerator	L34	43.9			
Sq. RP - front to heel	H30	6.0			
Design H-point front travel	L17	5.0			
Shoulder room	W3	56.7			
Hip room	W5	52.4			
Upper body opening to ground	H50	44.8	44.8	44.9	44.9
Steering Wheel Angle	H18	17.6°			
Back Angle	L40	26.0°			
Rear Compartment					
Sq. RP Point couple distance	L50	27.4			
Effective head room	H63	36.0			
Effective T Point head room	H76	35.9			
Min. effective leg room	L51	28.4			
Sq. RP - second to heel	H31	8.4			
Knee clearance	L48	-2.5			
Compartment room	L3	22.7			
Shoulder room	W4	54.4			
Hip room	W6	46.3			
Upper body opening to ground	H51	-			
Luggage Compartment					
Usable luggage capacity (cu. ft.)	V1	6.6			
Liftover height	H195	27.3	27.3	27.5	27.5
Position of spare tire storage		INCLINED ON KICKUP			
Method of holding lid open		TORSION RODS			

MVMA Specifications Form
Passenger Car

Car Line _____

Model Year _____ Issued _____ Revised (●) _____

Car And Body Dimensions See Key Sheets for definitions

	Body Type
SAE Ref. No.	

Station Wagon — Third Seat

Shoulder Room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective 3 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		
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 (curb wt.)	H250	
Front seat back to load floor height	H197	
Cargo volume index (cu. ft.)	V2	
Hidden cargo volume (cu. ft.)	V4	

2-DOOR HARDTOP COUPE ONLY

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 (cu. ft.)	V3	
Hidden cargo volume (cu. ft.)	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.

MVMA Specifications Form
Passenger Car

Car Line FIREBIRD
Model Year 1978 Issued 9-15-77 Revised (●) _____

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. cu. in.	Carb.	Compr. Ratio	SAE Net @ RPM BHP	SAE Net @ RPM Torque	Exhaust System*		
STANDARD:								
FIREBIRD AND ESPRIT	LD5 231	2	8	105 @ 3400	185 @ 2000	S	3-SPEED MANUAL AUTOMATIC	3.08 F 2.56, 3.23 F 2.56 C
OPTIONAL:								
FIREBIRD AND ESPRIT	LG3 305	2	8.4	145 @ 3800	245 @ 2400	S	4-SPEED MANUAL AUTOMATIC	3.08 F 2.41 F
CALIF.				135 @ 3800	240 @ 2000	S	AUTOMATIC	2.41 C
	LM1 350	4	8.2	170 @ 3800	270 @ 2400	S	4-SPEED MANUAL AUTOMATIC	3.08 F 2.41, 3.08 F
CALIF. & ALT.				160 @ 3800	260 @ 2400	S	AUTOMATIC	3.08 A 2.41, 3.08 C
STANDARD:								
FORMULA	LG3 305	2	8.4	145 @ 3800	245 @ 2400	S	4-SPEED MANUAL AUTOMATIC	3.08 F 2.41 F, C
OPTIONAL:								
FORMULA	LM1 350	4	8.2	170 @ 3800	270 @ 2400	S	4-SPEED MANUAL AUTOMATIC	3.08 F 2.41, 3.08 F
CALIF. & ALT.				160 @ 3800	260 @ 2400	S	AUTOMATIC	3.08 A 2.41, 3.08 C

(FEDERAL/HIGH ALTITUDE ENGINE/AXLE COMBINATIONS AVAILABLE ALL STATES EXCEPT CALIFORNIA. HIGH ALTITUDE ENGINE/AXLE COMBINATIONS NOT RECOMMENDED FOR LOW ALTITUDE.)

*S — Single D — Dual

F = FEDERAL A = ALTITUDE C = CALIFORNIA

MVMA Specifications Form
Passenger Car

Car Line FIREBIRD

Model Year 1978 Issued 9-15-77 Revised (●)

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. cu. in.	Carb.	Compr. Ratio	SAE Net @ RPM BHP	SAE Net @ RPM Torque	Exhaust System*		
OPTIONAL:								
FORMULA (CONTINUED)	L78 400 (W72)	4	8.1	220 @ 4000	320 @ 2800	D	4-SPEED MANUAL AUTOMATIC	3.42 F 3.23 F
	L78 400	4	7.7	180 @ 3600	325 @ 1600	S	AUTOMATIC	2.56 F
	L80 403	4	7.9	185 @ 3600	320 @ 2000	S	AUTOMATIC	2.56, 3.08 A 2.56, 3.23 C
STANDARD:								
TRANS AM	L78 400	4	7.7	180 @ 3600	325 @ 1600	S	AUTOMATIC	2.56 F
	L78 400 (W72)	4	8.1	220 @ 4000	320 @ 2800	D	4-SPEED MANUAL AUTOMATIC	3.42 F 3.23 F
OPTIONAL:								
TRANS AM	L80 403	4	7.9	185 @ 3600	320 @ 2000	S	AUTOMATIC	2.56, 3.08 A 2.56, 3.23 C

*S — Single D — Dual

F = FEDERAL A = ALTITUDE C = CALIFORNIA

MVMA Specifications Form
Passenger Car

Car Line FIREBIRD
Model Year 1978 Issued 9-15-77 Revised (●) _____

Engine Description/Carb.	231/LD5	305/LG3	350/LM1
Engine — General			
Type (inline, V, Flat)	V6 90° OHV	V8 90° OHV	
Total dressed engine wt. dry *	204.0 MT; 191.7 AT	246.9 MT; 235.8 AT	271.7 MT; 260.0 AT
No. of cylinders	6	8	
Bore	3.80	3.736	4.00
Stroke	3.40	3.48	
Piston Displacement cu. in.	231	305	350
Bore spacing (C/L to C/L)	4.24	4.4	
Cyl. No. system (front to rear) L Bank	1-3-5	1-3-5-7	
Cyl. No. system (front to rear) R Bank	2-4-6	2-4-6-8	
Firing Order	1-6-5-4-3-2	1-8-4-3-6-5-7-2	
Cylinder Head Material	CAST IRON ALLOY		
Cylinder Block Material	CAST IRON ALLOY		
Cylinder block deck height			
Number of mtg. points Front	TWO		
Number of mtg. points Rear	ONE		
Engine installation angle	2.629°	3.017°	
Recommended fuel leaded, unleaded	UNLEADED - 91 (OR HIGHER) RESEARCH OCTANE		
Fuel antiknock index $\frac{(R+M)}{2}$			
Cylinder Head Volume (cm^3)	48.19	60.63	75.38
Head Gasket Thickness (Compressed) (CM-RV2 3-EL2)	0.533	0.53	
Head Gasket Volume (cm^3)	3.93	3.28	4.58
Deck Clearance (minimum) (above or below block)	.063 (BELOW)	0.025 (BELOW)	
Minimum Combustion Chamber Volume (cm^3)	87.65	58.99	73.74
Engine — Pistons			
Material	CAST ALUMINUM ALLOY		
Description and finish	CAM GROUND TRANSVERSE SLOT DIVORCED SKIRT	SUMP HEAD; CLOSED, SLIPPER SKIRT	
Weight (piston only) oz.	18.192	20.80	21.33
Clearance (limits) Top land	.046-.056	.0245-.0335	.0235-.0245
Clearance (limits) Skirt Top	.0008-.0020	.0017-.0042(a)	.0008-.0007 (a)
Clearance (limits) Skirt Bottom	.0013-.0035	--	--
Ring groove diameter No. 1 ring	3.400-3.385	3.320-3.335	3.541-3.556
Ring groove diameter No. 2 ring	3.400-3.385	3.320-3.335	3.541-3.556
Ring groove diameter No. 3 ring	3.396-3.383	3.300-3.315	3.577-3.592

(a) MEASURED 1.56 FROM TOP OF PISTON

*Dressed engine weight includes the following:

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Engine Description/Carb.	400/L78	400/L78 (W72)	403/L80

Engine — General

Type (inline, V, Flat)		V8 90° OHV		
Total dressed engine wt. dry *		298.2 MT; 286.9 AT	--	296.0 AT
No. of cylinders		8		
Bore		4.1212		4.351
Stroke		3.750		3.385
Piston Displacement cu. in.		400		403
Bore spacing (C/L to C/L)		4.62		4.625
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 IRON ALLOY		
Cylinder Block Material		CAST IRON ALLOY		
Cylinder block deck height				
Number of mtg. points	Front	TWO		
	Rear	ONE		
Engine installation angle		2.333°		3.017°
Recommended fuel leaded, unleaded		UNLEADED - 91 (OR HIGHER) RESEARCH OCTANE		
Fuel antiknock index $\frac{(R+M)}{2}$				
Cylinder Head Volume (cm^3)		100.04	93.74	82.99
Head Gasket Thickness (Compressed)(CM*RV2 3*EL2)		.0512		.040-.044
Head Gasket Volume (cm^3)		11.62		10.48
Deck Clearance (minimum) (above or below block)		.0038 (ABOVE)		.0130 (min. below)
Minimum Combustion Chamber Volume (cm^3)		120.20	113.9	113.80

Engine — Pistons

Material		ALUMINUM ALLOY		
Description and finish		CAM GROUND SLIPPER TYPE TIN PLATED		AUTO THERMEC, CAM GROU TIN PLATE, STEEL STRU
Weight (piston only) oz.		21.89		22.61
Clearance (limits)	Top land			.032-.043
	Skirt Top	.0025-.0033 (a)		--
	Skirt Bottom	.0017-.0040		.00075-.00175(b)
Ring groove diameter	No. 1 ring	3.677-3.667		3.597-3.607
	No. 2 ring	3.677-3.667		3.597-3.607
	No. 3 ring	3.712-3.702		3.617-3.627

*Dressed engine weight includes the following:

(a) MEASURED 1.11 FROM TOP OF PISTON
(b) MEASURED .75 BELOW PISTON PIN CENTERLINE

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Engine Description/Carb.	231/LD5	305/LG3	350/LM1

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.	(f)	UPPER-CAST ALLOY IRON, RADIUS FACE, CHROME FLAS LOWER-CAST ALLOY IRON, REVERSE TWIST, TAPERED FACE, LUBRITED	
	Width	.168-.178	(a)	(b)
	Gap	.015-.023	(c)	(d)
Oil	Description - material, coating, etc.	(e)		
	Width	.135-.142	.1859-.1879	.1850-.1870
	Gap	.015-.035	.010-.035	.015-.055
Expanders		ABUTTMENT TYPE	IN OIL RING ASSEMBLY	

Engine - Piston Pins

Material		SAE 1018 or 1019	CHROMIUM STEEL	
Length		2.90	2.990 - 3.010	
Diameter		.9391-.9394	.9270 - .9273	
Type	Locked in rod, in piston, floating, etc.	PRESSED IN ROD	LOCKED IN ROD	
	Bushing - In rod or piston		NONE	
	Bushing - Material		NONE	
Clearance	In piston	.0004-.0007(SEL)	.00025 - .00035	
	In rod .00075-.00125 (INT)		--	
Direction & amount offset in piston		RIGHT .040	MAJOR THRUST SIDE - .060	

Engine - Connecting Rods

Material		PEARLITIC MALLEABLE IRON	DROP FORGED STEEL	
Weight (oz.)		23.3	13.70	
Length (center to center)		5.960	5.695 - 5.705	
Bearing	Material & Type	M400 ALUMINUM STEEL BACKED-REM.	PREMIUM ALUMINUM	
	Overall length	.654	0.797	
	Clearance (limits)	.0005-.0026	.0013 - .0035	
	End Play	.006-.023	.006 - .016	

UPPER - .0770 - .0780 LOWER - .0770 - .0775
UPPER - .0775 - .0780 LOWER - .0770 - .0775
W72) UPPER - .010 - .020 LOWER .010 - .025
UPPER - .013 - .025 LOWER .010 - .025
TI-PIECE, 2 RAILS AND 1 SPACER (EXPANDER)
LS - STEEL, CHROME PLATED OD: EXPANDER - STAINLESS STEEL (NO CHROME ON
CID ENGINE OIL RINGS (SAE 1070 STEEL)
(CA. IRON - #1 - MOLYBDENUM COATED
#2 - LUBRITED

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Car Line FIREBIRD
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Engine Description/Carb.	400/L78	400/L78 (W72)	403/L80

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.	(a)	(c)
	Width	.0778	.077x.078
	Gap	#1 - .019, #2 - .015	.010x.020
Oil	Description - material, coating, etc.	MULTI-PIECE, 2 RAILS & 1 SPACER(EXPANDER) RAILS: STEEL WITH CHROME PLATED O.D. EXPANDER: STAINLESS STEEL	(c) (L80 ONLY) EXP. SPRING STEEL
	Width	.186	.0235x.0260
	Gap	.035	.015x.055
Expanders		STAINLESS STEEL	

Engine - Piston Pins

Material			SAE 1016	SAE 1016 (1019
Length			3.25	2.980
Diameter			.9802	.9803-.9807
Type	Locked in rod, in piston, floating, etc.		LOCKED IN ROD	PRESSED IN ROD
	Bushing	In rod or piston	NONE	
		Material	NONE	
Clearance	In piston		.0003-.0005	
	In rod		PRESS FIT	
Direction & amount offset in piston			TO RIGHT .063	TO RIGHT .060

Engine - Connecting Rods

Material		ARMA STEEL	SAE 1140
Weight (oz.)		31.7	26.23
Length (center to center)		6.625	5.998-6.002
Bearing	Material & Type	M400 ALUMINUM STEEL BACKED-REMOVABLE	M390 ALUMINUM STEEL BACKED-
	Overall length	.88	.821-.831
	Clearance (limits)	.0005-.0026	.0005-.0026
	End Play	.012 - .017 (b)	.006-.020

(a) CAST IRON, REVERSE TWIST, #1 - BARREL FACE - MOLY CHANNEL
#2 - TAPER FACE, TIN PLATED (MOLY FILLED ON 400/L7

(b) TOTAL FOR TWO

(c) RAILS GRANO SEAL PROCESS

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Engine Description/Carb.	231/LD5	305/LG3	350/LM1

Engine—Crankshaft

Material			NODULAR IRON	
Vibration damper type			RUBBER ABSORBTION	RUBBER MOUNTED INERTIA
End thrust taken by bearing (No.)			2	5
Crankshaft end play			.003-.009	.002 - .007
Main bearing	Material & type		ALUMINUM-STEEL BACKED-REMOVABLE(a)	PREMIUM ALUMINUM (b)
	Clearance		.004-.0015	(c)
	Journal dia. and bearing overall length	No. 1	2.4995-0.864	2.4502 x .752
		No. 2	2.4995-1.057	2.4502 x .752
		No. 3	2.4995-0.864	2.4502 x .752
		No. 4	2.4995-0.864	2.4502 x .752
		No. 5	NONE	2.4508 x 1.180
		No. 6	NONE	
		No. 7	NONE	
	Dir. & amt. cyl. offset		NONE	
	No. bolts/main brg. cap		2	
Crankpin journal diameter			2.2487-2.2495	2.009 - 2.100

Engine—Camshaft

Location			BETWEEN CYLINDER BANKS	
Material			CAST ALLOY IRON	
Bearings	Material		STEEL BACKED BABBITT	
	Number		4	5
Type of Drive	Gear, chain or belt		CHAIN	
	Crankshaft gear or sprocket material		SINTERED IRON	
	Camshaft gear or sprocket material		ALUMINUM-NYLON COATED	NYLON TEETH WITH ALUMINUM HEAD
	Timing chain	No. of links	54	46
			--	--
			--	--
	Chain or Belt	Width	.875	.625
		Pitch	.375	.500

(a) #1 UPPER - M400, LOWER - M100
#2 & 4 UPPER AND LOWER - M100
#3 UPPER AND LOWER - M400

(b) LG3 - #1 UPPER & LOWER G66 CONELL
LG3 & LM1 - #5 UPPER STEEL BACKED INSERT WITH COPPER LEAD ALLOY

(c) #1 - 0.0008 - .0020
#2 - 0.0011 - .0023
#5 - 0.0017 - .0033

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Engine Description/Carb.	400/L78	400/L78 (W72)	403/L80

Engine—Crankshaft

Material			NODULAR IRON	
Vibration damper type			RUBBER FLOATED WEIGHT	TUNED RUBBER
End thrust taken by bearing (No.)			4	3
Crankshaft end play				
Main bearing	Material & type		M400 ALUMINUM STEEL BACKED, REMOVABLE	(a)
	Clearance		.0002 - .0017	2.50 x 0.975
	Journal dia. and bearing overall length	No. 1	3.00x.94	2.50 x 0.975
		No. 2	3.00x.94	2.50 x 1.194
		No. 3	3.00x.94	2.50 x 0.975
		No. 4	3.00x1.13	2.50 x 1.624
		No. 5	3.00x1.59	
		No. 6	NONE	
		No. 7	NONE	
	Dir. & amt. cyl. offset		R.B. LEADS .94	L.B. LEADS .938
	No. bolts/main brg. cap		TWO	
Crankpin journal diameter			2.25	2.1238 - 2.1248

Engine—Camshaft

Location			BETWEEN CYLINDER BANKS	
Material			HARDENED ALLOY CAST IRON	CAST IRON GM-6016M
Bearings	Material		BABBITT ON STEEL	
	Number		5	
Type of Drive	Gear, chain or belt		CHAIN	
	Crankshaft gear or sprocket material		HARDENED SINTERED IRON	STEEL
	Camshaft gear or sprocket material		HEAT TREATED CAST IRON	CAST IRON (AL.WITH NYLON T
	Timing chain	No. of links	60	48
			--	--
			--	--
	Chain or Belt	Width	.88	.720-.750
		Pitch	.375	.500

(a) #1,2,3,4,5 - UPPER & #5 LOWER M100 STEEL BACKED
#1,2,3,4,5 - LOWER M400 STEEL BACKED

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Engine Description/Carb.

	231/LD5	305/LG3	350/LM1

Engine—Valve System

Hydraulic lifters (Std., opt., NA)			STANDARD		
Valve rotator, type (intake, exhaust)			NONE	EXHAUST	
Push rods (dia., length, material)			.3125x8.697(b)	.3125x7.7241 - WELDED STEEL TUBING	
Rocker ratio			1.55 : 1	1.50 : 1	
Operating tappet clearance (indicate hot or cold)	Intake		NONE	ZERO	
	Exhaust		NONE	ZERO	
Timing (based on top of ramp points)	Intake	Opens (°BTC)	17°	28	
		Closes (°ABC)	73°	64	72
		Duration (deg.)	270°	272	280
	Exhaust	Opens (°BBC)	68°	78	78
		Closes (°ATC)	25°	30	30
		Duration (deg.)	277°	288	288
	Valve open overlap (deg.)		46°	58	58 STL
Intake Valve	Material		1041 STEEL(c)	ALLOY STEEL SAE1541(c)	ALLOY STEEL-SAE 1541/or 1
	Overall length		4.660 - 4.690	4.902-4.922	4.870-4.889
	Actual overall head dia.		1.625	1.715-1.725	1.935-1.945
	Angle of seat & face (deg.)		45°	46° SEAT, 45° FACE	
	Seat insert material			NONE	
	Stem diameter		.3402-.3412	.3410 - .3417	
	Stem to guide clearance		.0015-.0035 (.0003 max. taper)	.0010 - .0027	
	Lift (@ zero lash)		.383	.3727	.3900
	Outer spring press. & length	Valve closed (lb. @ in.)	64 ± 5 @ 1.727	76 - 84 @ 1.70	
		Valve open (lb. @ in.)	164 ± 5 @ 1.340	174 - 186 @ 1.25	
	Inner spring press. & length	Valve closed (lb. @ in.)	NONE	SPRING DAMPENER	
		Valve open (lb. @ in.)	NONE	SPRING DAMPENER	
Exhaust Valve	Material		21-2 STEEL (d)	HIGH ALLOY STEEL (21-2N) ALUMINIZED HEAD (a	
	Overall length		4.683-4.713	4.913-4.933	4.910-4.930
	Actual overall head dia.		1.425	1.495 - 1.505	
	Angle of seat & face (deg.)		45°	46° SEAT, 45° FACE	
	Seat insert material			NONE	
	Stem diameter		.3405-.3412	.3410 - .3417	
	Stem to guide clearance		.0015-.0032	.0010 - .0027	
	Lift (@ zero lash)		.366	.4100	
	Outer spring press. & length	Valve closed (lb. @ in.)	64 ± 5 @ 1.727 (e)	76 - 84 @ 1.61	
		Valve open (lb. @ in.)	182 ± 8 @ 1.340(e)	184 - 196 @ 1.16	
	Inner spring press. & length	Valve closed (lb. @ in.)	IN ASSEMBLY	SPRING DAMPENER	
		Valve open (lb. @ in.)	IN ASSEMBLY	SPRING DAMPENER	

(a) CHROME FLASH STEM
(b) SAE 1009 STEEL TUBING (.060 WALL) WELDED ON SAE 1013 STEEL BALLS
(c) CHROME FLASHED STEM (d) NICKEL PLATED FACE & CHROME FLASHED STEM

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Engine Description/Carb.	400/L78	400/L78 (W72)	403/L80

Engine—Valve System

Hydraulic lifters (Std., opt., NA)			STANDARD		
Valve rotator, type (intake, exhaust)			NONE		HELICAL SPRING & FLAT WASHER
Push rods (dia., length, material)			.3125x9.170 (a)		.312 x 8.265 (a)
Rocker ratio			1.5:1		1.6:1
Operating tappet clearance (indicate hot or cold)	Intake		ZERO		
	Exhaust		ZERO		
			MT AT		
Timing (based on top of ramp points)	Intake	Opens (°BTC)	21° 29°	16°	16°
		Closes (°ABC)	73° 55°	78°	54°
		Duration (deg.)	274° 264°	274°	250°
	Exhaust	Opens (°BBC)	77° 62°	79°	64°
		Closes (°ATC)	41° 22°	39°	20°
		Duration (deg.)	298° 264°	298°	264°
	Valve open overlap (deg.)		62° 51°	55°	36°
Intake Valve	Material		GM 8440 (b)		1541 or 1547 (c)
	Overall length		4.8645		4.667
	Actual overall head dia.		2.113 - 2.107		1.880-1.850
	Angle of seat & face (deg.)		30° SEAT; 29° FACE		45° SEAT; 46° FACE
	Seat insert material		NOT USED		
	Stem diameter		.3419 - .3412		.3432-.3425
	Stem to guide clearance		.0016 - .0033		.0010-.0027
	Lift (@ zero lash)		.364		.400
	Outer spring press. & length	Valve closed (lb. @ in.)	68 ± 5 @ 1.549		76-84 @ 1.670
		Valve open (lb. @ in.)	131 ± 5 @ 1.185		180-194 @ 1.270
	Inner spring press. & length	Valve closed (lb. @ in.)	40 ± 5 @ 1.509		--
		Valve open (lb. @ in.)	97 ± 5 @ 1.145		--
Exhaust Valve	Material		STEEL 21-2 (b)		
	Overall length		4.8645		4.675
	Actual overall head dia.		1.663-1.657		1.627-1.617
	Angle of seat & face (deg.)		45° SEAT; 44° FACE		59° SEAT; 60° FACE
	Seat insert material		NOT USED		
	Stem diameter		.3414-.3407		.3427-.3420
	Stem to guide clearance		.0021-.0038		.0015-.0032
	Lift (@ zero lash)		.364		.400
	Outer spring press. & length	Valve closed (lb. @ in.)	68 ± 5 @ 1.549		76-84 @ 1.670
		Valve open (lb. @ in.)	131 ± 5 @ 1.185		180-194 @ 1.270
	Inner spring press. & length	Valve closed (lb. @ in.)	40 ± 5 @ 1.509		--
		Valve open (lb. @ in.)	97 ± 5 @ 1.145		--

(a) STEEL
(b) ALUMINIZED FACE AND FLASH CHROME PLATED STEM
(c) ALUMINIZED SEAT

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Engine Description/Carb.	231/LD5	305/LG3	350/LM1

Engine — Lubrication System

Type of lubrication (splash, pressure, nozzle)	Main bearings	PRESSURE	
	Connecting rods	PRESSURE	
	Piston pins	SPLASH	
	Camshaft bearings	PRESSURE	
	Tappets	PRESSURE	
	Timing gear or chain	NOZZLE AND SPLASH	CENTRIFUGALLY OILED-FROM CAMSHAFT BEARING
	Cylinder walls	SPLASH	PRESSURE JET CROSS SPRAYED
Oil pump type		GEAR	
Normal oil pressure (lb. @ engine rpm)		37 @ 2400	32 - 40 @ 2000
Type oil intake (floating, stationary)		STATIONARY	
Oil filter system (full flow, part., other)		FULL FLOW	
Capacity of c'case, less filter-refill (qt.)		4	
Oil grade recommended (SAE viscosity and temperature range)		(a)	(b)
Engine service reqmt. (SD, SE, etc.)		SE	

Engine — Exhaust system

Type (single, single with cross-over, dual, other)		SINGLE WITH CROSSOVER AND CONVERTER	
Muffler No. & type (reverse flow, straight thru, separate resonator)		ONE, REVERSE FLOW	
Resonator No. & type		NONE	NONE
Exhaust Pipe	Branch O. D., wall thickness	2.00x0.072	2.0 x 0.040
	Main O. D., wall thickness	2.50x0.072	2.25x.068 | 2.50x.068
	Material	LAMINATED	STAINLESS STEEL/COLD ROLLED STEEL
Inter-mediate Pipe	O. D. & wall thickness	2.25x0.071 min.	2.25 x 0.68 | 2.5 x 0.68
	Material	CRS	COLD ROLLED STAINLESS STEEL TUBING
Tail Pipe	O.D. & wall thickness	2.00x0.060	2.0 x .055 | 2.25 x .071
	Material	ALUM. STEEL	ALUMINIZED COLD ROLLED STEEL TUBING

(a) ABOVE -18°C 10W30, 20W20, 20
-18° to 16°C 10W30, 10W40
BELOW 16°C 10W30, 10W

(b) 20°F & ABOVE - 20W20, 10W30, 10W40, 20W40, 20W50
0-60°F - 10W, 5W30, 10W40, 10W30
20°F & BELOW - 5W20, 10W30

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Passenger Car

Car Line FIREBIRD
Model Year 1978 Issued 9-15-77 Revised (•)

Engine Description/Carb.	400/L78	400/L78 (W72)	403/L80

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		SPRAY
	Cylinder walls	METERED JET		SPRAY
Oil pump type		GEAR		
Normal oil pressure (lb. @ engine rpm)		35-40 @ 2600	55-60 @ 2600	30-45 @ 1500
Type oil intake (floating, stationary)		STATIONARY		
Oil filter system (full flow, part., other)		FULL FLOW		
Capacity of c/case, less filter-refill (qt.)		5		4
Oil grade recommended (SAE viscosity and temperature range)		(a)		
Engine service reqmt. (SD, SE, etc.)		SE		

Engine — Exhaust system

Type (single, single with cross-over, dual, other)		SINGLE WITH CROSSOVER, CONVERTER, AND DUAL TAILPIPES
Muffler No. & type (reverse flow, straight thru, separate resonator)		ONE- 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 .072
	Material	LAMINATED STAINLESS STEEL/COLD ROLLED STEEL
Inter-mediate Pipe	O. D. & wall thickness	(b) 2.25 x .071 min.
	Material	CRS
Tail Pipe	O.D. & wall thickness	2.25 x .056 min.
	Material	ALUMINIZED STEEL

(a) 20°F AND ABOVE — 20W-20, 10W-30, 10W-40, 20W-40, 20W-50
0° TO 60°F — 10W, 5W-30, 10W-30, 10W-40
BELOW 20°F — 5W-20, 5W-30

(b) OPTIONAL 2.50 PIPE OUT OF CONV. SPLITTING INTO 2.25 DUAL PIPES TO DUAL RESONATORS AND 2.25 TAILPIPES

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Engine Description/Carb.

231/LD5	305/LG3	350/LM1	400/L78	400/L78 (W72)	403 /L80

Engine — Fuel System

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

Induction type: Carburetor, fuel injection, supercharger.			CARBURETOR				
Fuel Tank	Refill capacity (U. S. gals.)		21				
	Filler location		CENTER REAR				
Fuel Pump	Type (elec. or mech.)		MECHANICAL				
	Locations		L Frt	R Frt	L. Front	R. Frt.	
	Pressure range		4.25-5.75	7.5-9.0	7.0-8.5	37.9-44.9 kPa	
Fuel Filter	Type		FINE MESH PLASTIC STRAINER IN TANK; PLEATED PAPER				
	Locations		ELEMENT WITH INTEGRAL CHECK VALVE IN CARBURETOR INLET				
Carburetor	Choke type						
	Intake manifold heat control (exhaust or water)						
	Air cleaner type	Standard					
		Optional					
	Idle speed (spec. neutral or drive)	Manual	800 (N)	700(N)	600(N)	NA	775(N)	NA
		Automatic	600(D)	*500(D)(a)	*500(D)(b)	*500(D)	*600(D)	*550(D)(b)
	Idle A/F mix.		PRESET BY MANUFACTURER				

Carburetor Supplementary Information

Model Usage	Piston Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
STANDARD FS87 FT87	LD5 231	3-SPEED MAN. / AUTOMATIC	ROCHESTER	2GE	1,2-BBL	1.093
STANDARD FU87 OPTIONAL FS87-FT87	LG3 305	4-SPEED MAN / AUTOMATIC	ROCHESTER	2GC	1,2 BBL	1.188
OPTIONAL FS87 FT87 FU87	LM1 350	4-SPEED MAN. / AUTOMATIC	ROCHESTER	M4MC	1,4 BBL	1.093 Pri. 2.250 Sec.
STANDARD FW87 OPTIONAL FU87	L78 400	AUTOMATIC	ROCHESTER	M4MC	1,4 BBL	1.218 Pri. 2.250 Sec.
OPTIONAL FU87 FW87	L80 403	AUTOMATIC	ROCHESTER	M4MC	1,4 BBL	1.218 Pri. 2.250 Sec.

(a) 600 WITH CALIFORNIA OR ALTITUDE EMISSIONS
(b) 600 WITH ALTITUDE EMISSION
* IDLE SPEED MODIFIED WITH SOLENOID WHEN A/C IS ON WITH A/C EQUIPPED VEHICLES

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Car Line FIREBIRD
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Engine Description/Carb.

231/LD5	305/LG3	350/LM1

Engine — Cooling System

Coolant recovery system (std., opt., none)			STANDARD		
Radiator cap relief valve pressure			14-17 PSI		
Circulation thermostat	Type (choke, bypass)		CHOKE		
	Starts to open at (°F)		195°F		
Water pump	Type (centrifugal, other)		CENTRIFUGAL		
	GPM 1000 pump rpm		10	22.7	
	Number of pumps		ONE		
	Drive (V-belt, other)		V-BELT		
	Bearing type		SEALED DOUBLE ROW BALL		
By-pass recirculation type (inter., ext.)			EXTERNAL	INTERNAL	
Radiator core type (cross-flow, vertical, cellular, tube and fin, other)			CROSS FLOW, TUBE AND CENTER		
Cooling system capacity	With heater (qt.)		15.8	17.5	
	Without heater (qt.)		HEATER STANDARD		
	Opt. equipment-specify (qt.)		NOT AVAILABLE		
Water jackets full length of cyl. (yes, no)			NO	YES	
Water all around cylinder (yes, no)			YES		
Radiator hose	Lower	Number and type (molded, straight)	ONE, MOLDED		
		Inside diameter	1.50	1.50 RADIATOR, 1.75 PUMP	
	Upper	Number and type (molded, straight)	ONE, MOLDED		
		Inside diameter	1.50		
	By-pass	Number and type (molded, straight)	ONE, MOLDED	NONE	
		Inside diameter	.62	--	
Radiator	Standard	Width	27.50	27.50	27.50
		Height	16.97	16.97	16.97
		Thickness	1.24x30K	1.24x20M	1.24x20M(MT);1.24x18M(A
	A/C	Width	27.50	27.50	27.50
		Height	16.97	16.97	16.97
		Thickness	1.24x30K	1.24x16M	1.24x16M(MT);1.24x14M(A
	Heavy duty	Width	27.50	27.50	25.70
		Height	16.97	16.97	16.97
		Thickness	1.24x30M	1.96x16M	1.96x16M
(a) Fan (Standard)	Number of blades & spacing		5		
	Diameter		18.0	18.8	
	Ratio-fan to crankshaft rev.		1.18:1	.949:1	
	Fan cutout type		NONE		
(a) Fan (Optional)	No. of blades and spacing		7 WITH A/C	5 WITH A/C	
	Diameter		20.0	19.0	
	Ratio - fan to crankshaft rev.		1.30:1	1.25:1	
	Fan cut-out type		THERMOSTATICALLY CONTROLLED CLUTCH WITH A/C		

(a) BLADE SPACING STAGGERED

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Engine Description/Carb.

400/L78	400/L78 (W72)	403/L80

Engine — Cooling System

Coolant recovery system (std., opt., none)			STANDARD		
Radiator cap relief valve pressure			14-17 PSI		
Circulation thermostat	Type (choke, bypass)		CHOKE		
	Starts to open at (°F)		195°		
Water pump	Type (centrifugal, other)		CENTRIFUGALLY		
	GPM 1000 pump rpm		12		22
	Number of pumps		ONE		
	Drive (V-belt, other)		V-BELT		
	Bearing type		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 (qt.)		18.4		20.4
	Without heater (qt.)		HEATER STANDARD		
	Opt. equipment-specify (qt.)		NA		
Water jackets full length of cyl. (yes, no)			YES		
Water all around cylinder (yes, no)			YES		
Radiator hose	Lower	Number and type (molded, straight)	ONE, MOLDED		
		Inside diameter	1.50 RADIATOR 1.75 PUMP		1.56 RADIATOR 1.81 PUMP
	Upper	Number and type (molded, straight)	ONE, MOLDED		
		Inside diameter	1.50		
	By-pass	Number and type (molded, straight)	NONE		ONE, STRAIGHT
		Inside diameter	--		.76-.70
Radiator	Standard	Width	27.50		27.50
		Height	16.97		16.97
		Thickness	1.24x18M		1.24x16M
	A/C	Width	27.50		27.50
		Height	16.97		16.97
		Thickness	1.96x16M(MT); 2.68x20M(AT)		1.96x20M
	Heavy duty	Width	27.50		27.50
		Height	16.97		16.97
		Thickness	2.68x16M		2.68x16M
Fan (a) (Standard)	Number of blades & spacing		5		
	Diameter		18.8		
	Ratio-fan to crankshaft rev.		.91:1		.85:1
	Fan cutout type		NONE		
Fan (Optional)	No. of blades and spacing		7		6
	Diameter		18.8		19.5
	Ratio - fan to crankshaft rev.		1.25:1		1.40:1
	Fan cut-out type		THERMOSTATICALLY CONTROLLED CLUTCH WITH A/C		

(a) BLADE SPACING STAGGERED

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Car Line FIREBIRD
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Engine Description/Carb.

231/LD5 305/LG3 350/LM1 400/L78	403/L80
FEDERAL	ALTITUDE

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)		OXIDIZING CONVERTER WITH EXHAUST GAS RECIRCULATION AND EARLY FUEL EVAPORATION
	Air Injection Pump	Type	
		Displacement	
		Drive ratio	
		Drive type	
		Relief valve (type)	
		Filter (describe)	
	Air Injection System	Air distribution (head, manifold, etc.)	NOT USED
		Point of entry	
		Injection tube i.d.	
		Check valve type	
		Backfire protection (type)	
	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)	INTAKE MANIFOLD
	Catalytic Converter System	Catalyst Type	PLATINUM - PALLADIUM
		Catalyst Volume	260 CU. IN.
		Substrate type	ALUMINA
		Container location	BENEATH RIGHT FRONT UNDERBODY
	Other	HEATED AIR TO CARBURETOR	THERMOSTATICALLY CONTROLLED AIR CLEANER REGULATOR MIXES HEATED AIR WITH INCOMING COLD AIR TO REDUCE HYDROCARBON EMISSION
		THERMAL CONTROL OF EFE HEAT	EARLY FUEL EVAPORATION INSURED BY DIVERTED EXHAUST GAS AT COOLANT TEMPERATURES ABOVE 120° FOR 400 L78, 120° MT, 90° AT FEDERAL - 120° AT CALIFORNIA FOR 231 LD5, 180° FOR 305 LG3 AND 350 LM1.

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Engine Description/Carb.

231/LD5	305/LG3 & 350/LM1	403/L80
CALIFORNIA	CALIF. & ALTITUDE	CALIFORNIA

Vehicle Emission Control

Exhaust Emission Control	Type (Air injection, engine modifications, other)		(a)		(b)
	Air Injection Pump	Type	POSITIVE DISPLACEMENT-VANE TYPE		
		Displacement	19.2 CU. IN.		
		Drive ratio	1.25:1	1.31:1(AC) 1.32:1 (Intr)	1.25:1
		Drive type	BELT		
		Relief valve (type)	SPRING LOADED BALL		
		Filter (describe)	CENTRIFUGAL AIR CLEANER		
	Air Injection System	Air distribution (head, manifold, etc.)	HEAD	MANIFOLD	
		Point of entry	EXHAUST PORTS		
		Injection tube i.d.	NONE	.258	NONE
		Check valve type	VITON DISC		
		Backfire protection (type)	BY PASS VALVE	DIVERTER 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 LEFT REAR V6, RIGHT REAR 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)	INTAKE MANIFOLD		
	Catalytic Converter System	Catalyst Type	PLATINUM-PALLADIUM		
		Catalyst Volume	260 CU. IN.		
		Substrate type	ALUMINA		
		Container location	BENEATH RIGHT FRONT UNDERBODY		
			-		
	Other	HEATED AIR TO CARBURETOR	THERMOSTATICALLY CONTROLLED AIR CLEANER REGULATOR MIXES HEATED AIR WITH INCOMING COLD AIR TO REDUCE HYDROCARBON EMISSION		
		THERMAL CONTROL OF EFE VALVE	EARLY FUEL EVAPORATION INSURED BY DIVERTED EXHAUST GAS AT COOLANT TEMPERATURES BELOW 120° FOR 231 LD5, 180° FOR 305 LG3 and 350/LML. NOT USED ON 403/L80		

(a) OXIDIZING CONVERTER WITH EXHAUST GAS RECIRCULATION AND EARLY FUEL EVAPORATION PLUS AIR INJECTION
(b) OXIDIZING CONVERTER, WITH EXHAUST GAS RECIRCULATION AND AIR INJECTION

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Engine Description/Carb.

231/LD5	305/LG3	350/LM1	400/L78 400/L78(W72)	403/L80

Electrical — Supply System

Battery	Make and Model	Y85-4(a,b)	R85-5	R85-5		R87-5
	Voltage Rtg. & Total Plates	12-36	12.48	12-48		12-60
	SAE Designation No. and/or capacity	2500 WATTS	3200 WATTS	3200 WATTS		3500 WATTS
	Location	UNDERHOOD-R.H. SIDE			UNDERHOOD-L.H. SIDE	
Generator or Alternator	Make	DELCO REMY				
	Model	c,d,e,f	c,h,j		g,k,l,m	
	Type and rating (n)	42 (c,g); 61 (h,j,k); 63 (l,m)				
	Output at engine idle (neutral)					
	Ratio—Gen. to Crk rev.					
Regulator	Make					
	Model					
	Type	INTEGRAL WITH ALTERNATOR				
	Regulated Voltage					
	Regulated Current					
	Voltage test conditions Temperature					
	Voltage test conditions Load					
	Voltage test conditions Other					

Electrical — Starting System

Starting Motor	Make	DELCO REMY					
	Model	1109061	o,p	q,r	1108759	1109072	
Motor Drive	Engagement type	POSITIVE SHIFT SOLENOID					
	Pinion engages from (front, rear)	FRONT					
	Number of teeth Pinion	9					
	Number of teeth Flywheel Manual	160	166	--	166	--	
	Number of teeth Flywheel Auto.	160	166	160	166	160	

(a) R85-5 WITH A/C AND/OR HEATED BACKLIGHT
(b) R89-5 WITH HEAVY DUTY OPTION
(c) 1102841 STANDARD V6 OR CHEVROLET V8
(d) 1102843 A/C OR HEATED BACKLIGHT
(e) 1102844 A/C AND HEATED BACKLIGHT
(f) 1102844 WITH HIGH OUTPUT OPTION
(g) 1102485 STANDARD PONTIAC OR OLDS V8
(h) 1102480 WITH A/C AND/OR HEATED BACKLIGHT
(j) 1102480 WITH HIGH OUTPUT OPTION
(k) 1102486 A/C OR HEATED BACKLIGHT
(l) 1102854 A/C AND HEATED BACKLIGHT
(m) 1102854 WITH HIGH OUTPUT OPTION
(n) DIODE RECTIFIED ALTERNATOR

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Engine Description/Carb. ALL

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 CARBURETOR AIR CLEANER
		Flame arrestor (screen, other)		CHECK VALVE AND/OR SCREEN
Evaporative Emission Control	Fuel Tank	Thermal expansion volume (cu. ft.)		.47
		Relief pressure (psi) and location		9.2 - 12.4 kPa
		Vacuum relief (psi) and location		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)		CARBURETOR
	Vapor Storage	Storage provision (crankcase, canister, other)		CANISTER
		Volume (cu. ft.) or capacity (grams)		.053 (58 GRAMS MIN. CAPACITY, MEDIUM WORKING)
		Control valve type		VACUUM DIAPHRAGM

PRELIMINAR

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Engine Description/Carb.	231/LD5	305/LG3	350/LM1	400/L78	400/L78 (W72)	403/L80

Electrical — Ignition System — Distributor

Distributor	Manual	1110695	1103281	1103337	--	1103315	--
	Automatic	1110731 CAL 1110695 FED	1103282 FED,CAL	1103285	1103359	1103315	1103347 ALT 1103325 CAL
Timing	Manual	15° @ 800	4° @ 600	6° @ 700	--	18° @ 775	--
	Automatic	15° @ 600	4° @ 500 FD 6° @ 500 CA	8° @ 500	16° @ 675	18° @ 775	20° @ 1100

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Maximum	Start	Maximum
1110695	0-6° @ 2000	-	12-18° @ 3600	0° @ 6"	24° @ 13°
1110731	0-4° @ 2000	-	12-18° @ 3600	-° @ 6"	16° @ 9"
1103281	0° @ 1000	10° @ 1700	20° @ 3800	0° @ 4"	18° @ 12"
1103282	0° @ 1000	10° @ 1700	20° @ 3800	0° @ 4"	20° @ 10"
1103337	0° @ 1100	12° @ 1600	16° @ 2400	0° @ 4"	24° @ 10"
1103285	0° @ 1200	12° @ 2000	22° @ 4200	0° @ 4"	10° @ 8"
1103315	0° @ 1000	8° @ 1400	20° @ 4400	0° @ 5"	25° @ 11"
1103359	0° @ 1000	9° @ 2000	17° @ 4600	0° @ 5"	20° @ 10"
1103347	0° @ 1000	-	13° @ 3600	0° @ 6"	24° @ 13"
1103325	0° @ 1000	-	13° @ 3600	0° @ 5"	16° @ 11"

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Engine Description/Carb.	231/LD5	305/LG3	350/LM1	400/L78 400/L78 (W72)	403/L80

Electrical—Ignition System

Type	Conventional - Std., Opt., N.A.	NOT AVAILABLE				
	Transistorized - Std., Opt., N. A.	STANDARD				
	Other (specify)	--				
Coil	Make	DELCO REMY				
	Model	INTEGRAL WITH DISTRIBUTOR				
	Current — Engine stopped	--				
	Current — Engine idling	--				
Spark Plug	Make	AC				
	Model	R46TSX(a)			R45TSX	R46SZ
	Thread (mm)	14				
	Tightening torque (lb. ft.)	15-25			15	40
	Gap	.060			.060	.080

(a) R45TSX FOR CALIFORNIA AND ALTITUDE.

Electrical—Suppression

ON ALL CARS:	INTERNAL ALTERNATOR CAPACITOR, NON-METALLIC HIGH TENSION CABLES RESISTOR SPARK PLUGS, IGNITION COIL BY-PASS CAPACITOR, INTERNAL A/C BLOWER MOTOR BY-PASS CAPACITOR AND A/C COMPRESSOR DIODE.
Locations & type 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 (c)
	Warning divice	INHERENT
Temperature Indicator	Type	TELLTALE LAMP (c)
	Warning device	INHERENT
Oil pressure Indicator	Type	TELLTALE LAMP (c)
	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	
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 AND PARKING BRAKE RESTRAINT SYSTEM WARNING LAMP AND BUZZER-STANDARD TACHOMETER AND HEADLAMP "ON" WARNING BUZZER-OPTIONAL

(c) REPLACED BY GAUGE WITH GAUGE OPTION.

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Engine Description/Carb.	231/LD5	350/LM1	400/L78	305/LG3

Drive Units—Clutch (Manual Transmission)

Make & type		BORG AND BECK-DRY DISC			
Type pressure plate springs		DISC STEEL			
Total spring load (lb.)		2050	2200	2600	2050
No. of clutch driven discs		ONE			
Clutch facing	Material	WOVEN MOLDED ASBESTOS			
	Manufacturer	BORG AND BECK			
	Part Number (a)	458629	458629	482034	458629
	Rivets/Plate				
	Rivet size				
	Outside & inside dia.	10.34 x 6.50	10.34 x 6.50	11.0 x 6.50	10.34x6.50
	Total eff. area (sq. in.)	101.56	101.56	123.80	101.56
	Thickness	.305	.305	.315	.305
	Engagement cushioning method	DRIVEN PLATE WAVE SPOKE SPRINGS			
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	N.A.	N.A.	N.A.
Manual 4-speed (std., opt., N.A.)	N.A.	STANDARD	STANDARD	STANDARD
Manual 5-speed (std., opt., N.A.)	N.A.			
Manual overdrive (std., opt., N.A.)	N.A.			
Automatic (std., opt., N.A.)	OPTIONAL			

Drive Units — Manual Trans.

Number of forward speeds		THREE	FOUR	FOUR	FOUR
Transmission ratios	In first	3.11	2.85	2.43	2.85
	In second	1.84	2.02	1.61	2.02
	In third	1.00	1.35	1.23	1.35
	In fourth	--	1.00	1.00	1.00
	In fifth	--	--	--	--
	In reverse	3.22	2.85	2.35	2.85
Synchronous meshing, specify gears		ALL FORWARD			
Shift lever location					
Lubricant	Capacity (pt.)	3.5			
	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			

(a) PART NUMBER OF DRIVEN DISC ASSEMBLY

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Engine Description/Carb.	231/LD5	305/LG3	350/LM1	400/L78 400/L78 (W72)	403/L80

Drive Units—Automatic Transmission

Trade name		TURBO HYDRAMATIC			
Type (describe)		3-SPEED TORQUE CONVERTER			
Selector location		STEERING COLUMN-FLOOR WITH CONSOLE			
Gear Ratios	P	PARK			
	R	1.92			
	N	NEUTRAL			
	D	2.52, 1.52, 1.00			
	L2	2.52, 1.52			
	L1	2.52			
Max. upshift speed - drive range		85		83 (c)	
Max. kickdown speed - drive range		82		80 (d)	
Torque Converter	Number of elements	THREE			
	Max. ratio at stall	2.25	2.00	2.0 (a)	
	Type of cooling (air, liquid)	LIQUID			
	Nominal diameter	11.75		12.2 (b)	
Lubricant	Capacity - refill (pt.)	6.0 (d)			
	Type recommended	GM DEXRON II			
Special transmission features					

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 (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		2.41:1	2.56:1	3.08:1	3.23:1
No. of teeth	Pinion	17	16	13	13
	Ring gear	41	41	40	42
Ring Gear O. D.		8.5	8.5	8.5	8.5

(a) 2.5 ON TRANS AM 400 V-8
(b) 11.75 ON TRANS AM 400 V-8
(c) 77 & 74 ON TRANS AM 400 V8
(d) 7.5 WITH 12.2 CONVERTER

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Engine Description/Carb.	231/LD5	ALL V8'S

Drive Units—Propeller Shaft

Number used			ONE	
Type (straight tube, tube-in-tube, internal-external damper, etc.)			STRAIGHT TUBE	
Outer diam. x length* x wall thick-ness	Manual 3-speed trans.		2.75x49.55x.065	NOT AVAILABLE
	Manual 4-speed trans.		NOT AVAILABLE	2.75x48.55x.065 (ALL V8 EXC.400 2.75x48.00x.065 (400 V8 ONLY)
	Manual 5-speed trans.			
	Overdrive			
	Automatic transmission		2.75x49.55x.065	2.75x48.55x.065
Inter-mediate bearing	Type (plain, anti-friction)		NOT USED	
	Lubrication (fitting, prepack)		NOT USED	
Slip Yoke	Type		SPLINED	
	Number of teeth		27 (32 WITH 400 V8 4-SPEED MANUAL)	
	Spline O. D.		1.175 (1.372 WITH 400 V8 4-SPEED MANUAL)	
Universal joints	Make and Mfg. No.		SAGINAW - SIZE 44	
	Number used		TWO	
	Type (ball and trunnion, cross)		CROSS	
	Rear attach. (u-bolt, clamp, etc.)		STRAP AND BOLT	
	Bearing	Type (plain, anti-friction)	ANTI-FRICTION	
		Lubric. (fitting, prepack)	PREPACKED	
Drive taken through (torque tube or arms, springs)			SPRINGS	
Torque taken through (torque tube or arms, springs)			SPRINGS	

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

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	Body Type And/Or Engine Displacement, Etc.				
	FIREBIRD	FIREBIRD ESPRIT	FIREBIRD FORMULA	FIREBIRD TRANS AM	SPECIAL PERFORMANC TRANS AM

Drive Units — Tires And Wheels (Standard)

TIRES	Size, load range, ply	FR 78 x 15B	GR 70 x 15B		P255/70R15
	Type (bias, radial, etc.)	STEEL BELTED RADIAL			
	Inflation pressure (cold) for recommended max. vehicle load — Front	28			30
	Inflation pressure (cold) for recommended max. vehicle load — Rear	30			
	Rev./mile @ 45 mph	779	763		
WHEELS	Type & material	DISC, STEEL			
	Rim (size & flange type)	15x6JJ	15x7JJ		15x8JJ
	Wheel offset	.50	.34		ZERO
	Attachment — Type (bolt or stud)	STUD			
	Attachment — Circle diameter	4.75			
	Attachment — 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		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply	F78 x 14 B	AVAILABLE AS SPACE SAVER
Type (bias, radial, etc.)	BIAS	SPARE TIRE OPTION ON
Wheel type & material	DISC, STEEL	FIREBIRD AND ESPRIT
Rim (size, flange type, and offset)	14x5x.20	
Size, load range, ply	G78x14B	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)	14x6x.50	
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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Passenger Car

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		NOT AVAILABLE
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 V-8 ENGINES - OPTIONAL WITH V-6 ENGINE
Booster Type (remote, integral, etc.)				INTEGRAL
Effective area (sq. in.) *				112.0
Gross lining area (sq. in.) **				115.6
Swept area (sq. in.) ***				
Drum	Diameter (nominal)	Front		
		Rear		9.5
	Type and material			COMPOSITE, FINNED, CAST IRON - STEEL WEB
Rotor	Outer working diameter			11.0
	Inner working diameter			7.18
	Thickness			1.03
	Material & type (vented/solid)			CAST IRON - VENTED
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)
Line pressure at 100 lb. pedal load				
Shoe Clearance	Front			SELF ADJUSTING
	Rear			SELF ADJUSTING
Anti-skid device type (std., opt., N.A.)				NOT AVAILABLE
Brake lining	Bonded or riveted, rivets/seg.			RIVETED
	Rivet size			FRONT: .210 x .379; REAR: .143 x .250
	Manufacturer			DELCO-MORAINE
	Part number			FRONT:
	Front Wheel	Material		MOLDED ASBESTOS
		Size (length x width x thickness)	Prim. or outboard	5.40 x 1.92 x 0.465
			Second. or inboard	--
				5.40 x 1.92 x 0.465
				--
		Segments per shoe		ONE
		Shoe thickness		.540
	Rear Wheel	Material		MOLDED ASBESTOS
		Size (length x width x thickness)	Prim. or outboard	7.30 x 2.0 x 0.23
			Second. or inboard	-
				9.46 x 2.0 x 0.23
				-
		Segments per shoe		ONE
		Shoe thickness		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.)

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ALL

Steering

Manual (std., opt., NA)				NOT AVAILABLE
Power (std., opt., NA)				STANDARD
Adjustable steering wheel (tilt, swing, other)			Type and description	STEERING SHAFT TILTS VERTICALLY AT BASE OF STEERING WHEEL
			(std., opt., NA)	OPTIONAL
Wheel diameter			Manual	NOT AVAILABLE
			Power	15.25 x 14.75 (VERTICAL); 14.25 DIAMETER-OPTIONAL (a)
Turning diameter (feet)	Outside front		Wall to wall (l. & r.)	41.3
			Curb to curb (l. & r.)	38.9
	Inside rear		Wall to wall (l. & r.)	
			Curb to curb (l. & r.)	
Manual	Gear		Type	NOT AVAILABLE
			Make	
		Ratios	Gear	
			Overall	
	No. wheel turns (stop to stop)			
Power	Type (coaxial, linkage, etc.)			COAXIAL
	Make			SAGINAW
	Gear		Type	RECIRCULATING BASS BEARING-VARIABLE RATIO
		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 link (trans. or longit.)			TRANSVERSE ROD CONNECTS TIE RODS, PITMAN AND IDLER ARMS
	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
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			0°0' + 1°0'
	Camber (deg.)			+1°0' ± 0°45'
	Toe-in (outside track inches)			.15" ± .10"
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. @ curb wt.	Service checking		Caster (deg.)	+1° ± 1°
			Camber (deg.)	+1° ± .8°
			Toe-in (outside)	+.06° ± .12° PER WHEEL
	Service reset		Caster	+1° ± .5°
			Camber	+1° ± .5°
			Toe-in	+.06° ± .06° PER WHEEL
	Periodic M.V. inspection		Caster	+1° ± 1°
			Camber	+1° ± .8°
			Toe-in	+.06° ± .12° PER WHEEL

(a) STANDARD ON TRANS AM

(b) 14:1 WITH SPECIAL PERFORMANCE TRANS AM

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Body Type And/Or Engine Displacement
ALL

Suspension — General

(See Supplement page for details on Air Suspension)

Provision for car leveling		FRONT AND REAR STABILIZER BARS
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 (lb. per in.)	330 (a)
	Rate at wheel (lb. per in.)	82 (a)
Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	STEEL: 1.00 (b); 1.25 (c) (d)

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 (lb. per in.)		89 (a)
	Rate at wheel (lb. per in.)		89 (a)
	Mounting insulation type		RUBBER BUSHED AT SHACKLE AND HANGER
	If leaf	No. of leaves	5 (a)
		Shackle (comp. or tens.)	COMPRESSION
Stabilizer	Type (link, linkless, frameless)		LINK
	Material & bar diameter		STEEL: .750 (d) .625 (c)
Track bar type			NONE

(a) FOR BASE EQUIPPED MODEL. SPRINGS FOR ALL MODELS ARE COMPUTER SELECTED FOR SIZE AND RATE ACCORIDNG TO VEHICLE WEIGHT INCLUDING OPTIONAL EQUIPMENT.
(b) EXCEPT FORMULA AND TRANS AM
(c) FORMULA
(d) TRANS AM PLUS WS6

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Body Type
ALL

Frame

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

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)		ACRYLIC LACQUER (WATER BASE ENAMEL - VAN NUYS)
Hood counterbalanced (yes, no)		YES
Hood release control (internal, external)		EXTERNAL
Vehicle Ident. No. location		TOP LEFT SIDE OF INSTRUMENT PANEL- VISIBLE THROUGH WINDSHIELD
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	--
Windshield glass type		CURVED LAMINATED PLATE
Side glass type		CURVED TEMPERED PLATE
Backlight glass type		CURVED LAMINATED PLATE
Windshield glass exposed surface area		1137.6
Side glass exposed surface area		1139.8
Backlight glass exposed surface area		1212.7
Total glass exposed surface area		3490.1
Method of holding luggage compart. lid open		TORSION RODS

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Body Type
ALL

Convenience Equipment

Power windows	Side windows	OPTIONAL
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		N.A.
Reclining front seat back (R-L or both)		N.A.
Radios (specify type as well as availability)		OPT: AM, AM-FM, AM-FM STEREO, AM WITH TAPE, AM-FM STEREO WITH TAPE AM-FM MONO WITH CB, AM-FM STEREO WITH CB, AM-FM STEREO WITH DIG. C
Rear seat speaker		OPTIONAL
Power antenna		NOT AVAILABLE
Clock		OPTIONAL
Air conditioner (specify type and availability)		OPTIONAL: MANUAL TEMPERATURE CONTROL
Speed warning device		NOT AVAILABLE
Speed control device		OPTIONAL (NA 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
RH REMOTE MIRROR		OPTIONAL
DECK LID RELEASE		OPTIONAL

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H125)	Highest**	26.1
		Lowest	
	Tail (H126)	Highest	25.4
		Lowest	
	Sidemarker	Front	23.0
		Rear	22.2
Distance from C/L of car to center of bulb	Headlamp	Inside	17.9
		Outside**	25.0
	Tail	Inside	16.1
		Outside	
	Directional	Front	18.1
		Rear	25.4

*Measured at curb weight

**If single headlamps are used enter here

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Vehicle Weights

Model	CURB WEIGHT * (Pounds)			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT ** (Pounds)
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
FIREBIRD:								
2-DR. HARDTOP COUPE 2FS87	1849	1515	3364	40.7	59.3	15.3	84.7	3254
2-DR. HARDTOP COUPE 2FT87	1859	1536	3395	40.7	59.3	15.3	84.7	3285
2-DR. HARDTOP COUPE 2FU87	2010	1552	3652	40.7	59.3	15.3	84.7	3452
2-DR. HARDTOP COUPE 2FW87	2062	1559	3621	40.7	59.3	15.3	84.7	3511

*Reference - SAE J1100a, Motor Vehicle Dimensions, Curb Weight Definition

** Shipping weight definition -

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Optional Equipment Weights*

Equipment Differential Weights	WEIGHT (Pounds) Front	Rear	Total	Remarks
305 2-BBL. ENGINE LG3	120	3	128	ALL
400 4-BBL. ENGINE L78	178	8	186	ALL
350 4-BBL. ENGINE LM1	140	5	145	ALL
403 4-BBL. ENGINE L80	136	3	139	ALL
4-SPEED MT M20	4	1	5	ALL
4-SPEED MT M21	-4.2	-2	-6.2	ALL
3-SPEED MT M33	14	6	20	ALL
CUSTOM AIR CONDITIONING	76	0	76	WITH LD5 ENGINE
	95.1	.9	96	WITH LG3/LM1/L80 ENGINE
	95.1	.9	96	WITH L78 ENGINE PLUS M33
	109.5	-1.5	108	WITH L78 ENGINE PLUS M21
POWER DISC BRAKES	9	1	10	ALL
POWER WINDOWS	4.8	5.2	10	ALL
RADIO - AM WITH TAPE	7.4	6.4	13.8	ALL
RADIO - AM/FM STEREO TAPE	7.8	6.6	14.4	ALL
AM/FM MONO WITH CB	10.9	7.1	18	ALL
AM/FM STEREO 40 CB	11.5	10.9	22.4	ALL
RADIO - CLOCK - AM/FM	6	5.6	11.6	ALL
RADIO - AM/FM STEREO	8.8	7.8	16.6	ALL
RADIO - AM	4.7	1.8	6.5	ALL
RADIO - AM/FM	5.8	1.8	7.6	ALL
REAR SEAT SPEAKER	1	4	5	ALL

*Also see Engine-General section for dressed engine weight.

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Car Line FIREBIRD
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Body Type

HARDTOP COUPE

Vehicle Fiducial Marks

Fiducial Mark Number *

Define Coordinate Location

Front

X - FIDUCIAL MARK TO CENTERLINE OF CAR - FRONT, WIDTH MEASUREMENT MADE FROM CENTERLINE OF CAR TO FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.

Y - FIDUCIAL MARK TO VERTICAL BODY ZERO LINE - FRONT, MEASURED HORIZONTALLY FROM THE BODY ZERO LINE TO THE FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.

Z - FIDUCIAL MARK TO HORIZONTAL BODY ZERO LINE - FRONT, MEASURED VERTICALLY FROM BODY ZERO LINE TO THE FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.

Rear

X - FIDUCIAL MARK TO CENTERLINE OF CAR - REAR, WIDTH MEASUREMENT MADE FROM CENTERLINE OF CAR TO FIDUCIAL MARK LOCATED ON THE REAR UNDERBODY CROSSBAR.

Y - FIDUCIAL MARK TO VERTICAL BODY ZERO LINE - REAR, MEASURED HORIZONTALLY FROM BODY ZERO LINE TO THE REAR FIDUCIAL MARK LOCATED ON REAR UNDERBODY CROSSBAR.

Z - FIDUCIAL MARK TO HORIZONTAL BODY ZERO LINE - REAR, MEASURED VERTICALLY FROM BODY ZERO LINE TO THE REAR FIDUCIAL MARK LOCATED ON REAR UNDERBODY CROSSBAR.

Fiducial Mark Number	Coordinate Location of Fiducial Mark				Fiducial Mark to Ground at Curb
	X	Y	Z		H-161
Front	21.3	27.6	5.0	COUPE	11.3
Rear	23.3	75.0	0.9	COUPE	15.1

*Reference — SAE Recommended Practice, J182, A Motor Vehicle Fiducial Marks - September, 1973.

MVMA Specifications Form
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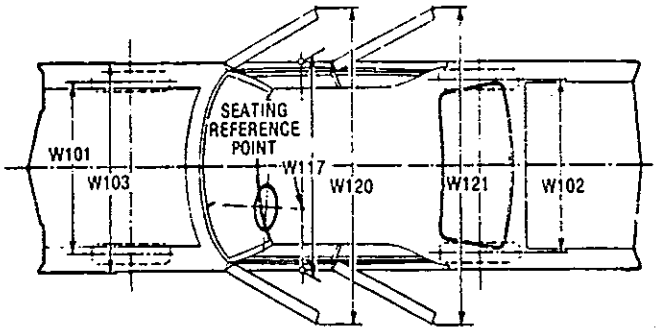
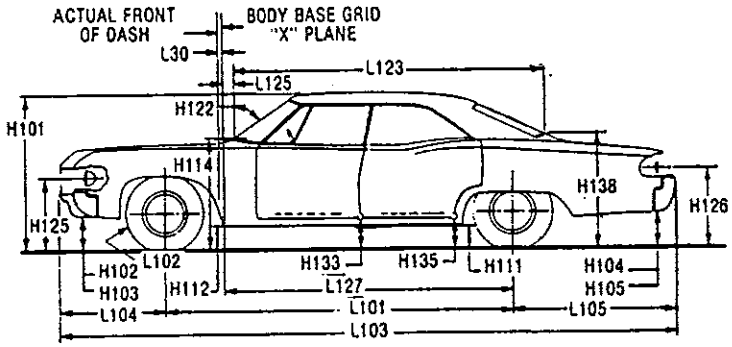
Exterior Car And Body Dimensions — Key Sheet

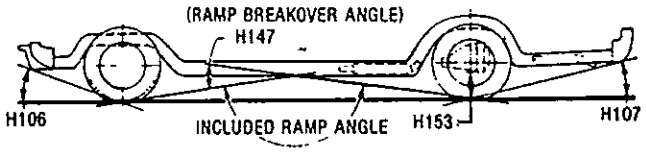
Width



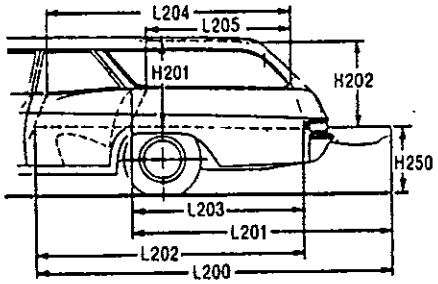
Length & Height



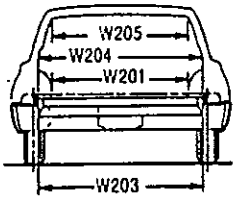
Ground Clearance



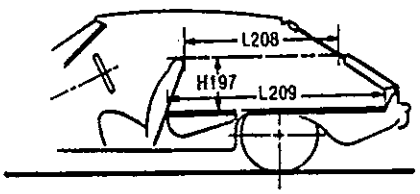
Station Wagon



Cargo Space



Hatchback



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Interior Car And Body Dimensions — Key Sheet
Dimension Definitions

H61 EFFECTIVE HEAD ROOM — FRONT. The dimension measured along a line 8 deg rear of vertical from the SgRP - front to the headline, plus 4.0 in. (102 mm).

H75 EFFECTIVE T-POINT HEAD ROOM — FRONT. The minimum radius from the T-point to the headlining plus 30 in. (762 mm).

L34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP - front plus 10.0 in. (254 mm) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

H30 SgRP — FRONT TO HEEL. The dimension measured vertically from the SgRP - front to the accelerator heel point.

L17 DESIGN H-POINT — FRONT TRAVEL. The dimension measured horizontally between the design H-point - front in the foremost and rearmost seat track positions.

W3 SHOULDER ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP - front within the belt line and 10.0 in. (254 mm) above the SgRP - front.

W5 HIP ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP - front within 1.0 in. (25 mm) below and 3.0 (76 mm) above the SgRP - front and 3.0 (76 mm) fore and aft of the SgRP - front.

H150 UPPER BODY OPENING TO GROUND — FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP - front "X" plane.

H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.

L40 BACK ANGLE — FRONT. The angle measured between a vertical line through the SgRP - front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION — SECOND.

L50 SgRP COUPLE DISTANCE. The dimension measured horizontally from the driver SgRP - front to the SgRP - second.

H63 EFFECTIVE HEAD ROOM — SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 4.0 in. (102 mm).

H76 EFFECTIVE T-POINT HEAD ROOM — SECOND. Measured in the same manner as H75.

L51 MINIMUM EFFECTIVE LEG ROOM — SECOND. The dimension measured along a line from the ankle pivot center to the SgRP - second plus 10.0 in. (254 mm).

H31 SgRP — SECOND TO HEEL. The dimension measured vertically from the SgRP - second to the two-dimensional device heel point on the depressed floor covering.

L48 KNEE CLEARANCE — SECOND. The mimimum dimension measured from the knee pivot to the back of front seatback minus 2.0 in. (51 mm).

L3 COMPARTMENT ROOM — SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

W4 SHOULDER ROOM — SECOND. The mimimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP - second within 10.0-16.0 in. (254-406) above the SgRP - second.

W6 HIP ROOM — SECOND. Measured in the same manner as W5.

H51 UPPER BODY OPENING TO GROUND — SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 13.0 in. (330 mm) forward of the SgRP - second.

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY — Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SEA-J1100A.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Station Wagon — Third Seat Dimensions

PD3 PASSENGER DIRECTION — THIRD.

W85 SHOULDER ROOM — THIRD. Measured in the same manner as W5.

W86 HIP ROOM — THIRD. Measured in the same manner as W5.

L86 EFFECTIVE LEG ROOM — THIRD. The dimension measured along a line from the ankle pivot center to the SgRP - third plus 10.0 in. (254 mm).

H86 EFFECTIVE HEAD ROOM — THIRD. The dimension measured along a line 8 deg from the SgRP - third to the headlining rear of vertical plus a constant of 4.0 in. (102 mm).

H89 EFFECTIVE T-POINT HEAD ROOM — THIRD. Measured in the same manner as H75.

Station Wagon — Cargo Space Dimensions

L200 CARGO LENGTH — OPEN — FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L201 CARGO LENGTH — OPEN — SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L202 CARGO LENGTH — CLOSED — FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L203 CARGO LENGTH — CLOSED — SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L204 CARGO LENGTH AT BELT — FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane.

L205 CARGO LENGTH AT BELT — SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.

MVMA Specifications Form
Passenger Car

Index

MVMA Specifications Form
Passenger Car

Car Line _____

Model Year _____ Issued _____ Revised (●) _____

MVMA Specifications Form
Passenger Car

Interior Car And Body Dimensions — Key Sheet
Dimension Definitions

W201 CARGO WIDTH — WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.

W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.

H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.

H250 TAILGATE TO GROUND (CURB WEIGHT). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V2 STATION WAGON.

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = Ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{(cubic meter)}$$

V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

Hatchback — Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electrically adjusted seats, see manufacturer's specifications for Design 'H' Point).

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR — FRONT — HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

V3 HATCHBACK.

Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = Ft.^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{(cubic meter)}$$

NEWS FROM PONTIAC

Pontiac Motor Division of General Motors + Public Relations Department + Telephone (313) 857-1572 Pontiac, Mich. 48053

FOR RELEASE At 10 a.m. Wednesday, September 14, 1977

Complete redesign of the mid-size LeMans and Grand LeMans and of the personal luxury Grand Prix, the return of the Grand Am and continuing engineering and fuel economy improvements highlight Pontiac's 1978 model lineup.

The LeMans, Grand LeMans and Grand Prix all will be shorter and lighter than their predecessors, providing significant increases in fuel economy while retaining traditional levels of roominess and comfort.

LeMans and Grand LeMans are available as a two-door coupe, a four-door sedan and a four-door Safari station wagon. The 1978 models are eight to 17 inches shorter and some 530 to 925 pounds lighter than the respective 1977 models. Front headroom and front and rear legroom have been increased on all models; luggage capacity has been increased 2.3 cubic feet on coupes and 1.3 cubic feet on sedans.

Among new features for the 1978 mid-size models are soft body-colored front and rear bumpers on coupes and sedans, single rectangular headlamps designed under the metric measurement system, an AM/FM stereo radio with cassette tape player, optional power vent rear windows on sedan models and a column-mounted headlight dimmer switch.

(..... more)

Standard engine for LeMans is the 3.8-litre (231 c.i.d.) V-6, with a 5.0-litre (305 c.i.d.) V-8 available as an option.

The popular Grand Prix continues to be offered in three distinct models: the regular Grand Prix, the sporty Grand Prix SJ and the luxurious Grand Prix LJ. Built on a 108-inch wheelbase, all Grand Prix models will be 201.2 inches long, 16.9 inches shorter than the 1977 models. Weight reductions range from more than 600 pounds on the LJ model to more than 750 pounds on the SJ model. Headroom and legroom in both front and rear were increased for the 1978 models, and luggage capacity was raised by one cubic foot.

The regular Grand Prix features a notchback front seat in vinyl or cloth, while the Grand Prix LJ has a standard loose-pillow design cloth notchback front seat. Both the SJ and LJ offer the exclusive Viscount seat design in leather.

Standard engines for the Grand Prix models are the 3.8-litre V-6 for the regular Grand Prix, a 4.9-litre (301 c.i.d.) two-barrel V-8 on the LJ model and the 4.9-litre four-barrel V-8 on the SJ model.

(..... more)

The Grand Am is being reintroduced for 1978 in coupe and sedan models. It offers a distinctive, soft front end panel, a specific two-tone paint treatment and Rally RTS Suspension with 205/70R14 steel-belted radial tires. The 4.9-litre two-barrel V-8 is standard, with the 4.9-litre four-barrel V-8 available as an option.

The redesigned LeMans, Grand LeMans, Grand Prix and Grand Am models all feature extensive use of corrosion-resistant metals such as zincrometal, zinc-iron alloy and galvanized steel. These metals, coupled with the use of new sealants and paint materials, provide substantial improvement in corrosion resistance.

Pontiac's compact car, the Phoenix, will be offered as a two-door coupe, a four-door sedan and a hatchback coupe. The luxurious Phoenix LJ will be available as a two-door coupe and a four-door sedan. Standard engine for all Phoenix models is the 3.8-litre V-6, with a 2.5-litre (151 c.i.d.) L-4 and the 5.0-litre V-8 available as options. Wrap-around taillamps with amber-colored directional signals are new on the LJ model for 1978. Phoenix models are equipped with a full-width front seat in cloth, while Phoenix LJs come with a notchback front seat in cloth or vinyl; bucket seats are available on all models. The Ventura nameplate has been eliminated for 1978.

(..... more)

Sunbird for 1978 will be offered in four styles: the Coupe, the Sport Coupe, the Sport-Hatch and the Sport Safari station wagon. All have the 2.5-litre L-4 as standard with the 3.8-litre V-6 available as an option. A new grille treatment accentuates the distinctive Pontiac front appearance of the Sunbird. Popular Sunbird options include a luxury trim group, the Rally RTS handling package and the Formula Appearance Package, available on all models except the Sport Safari. Pontiac's subcompact Sunbirds are built on a 97-inch wheelbase. The Astre nameplate has been eliminated for 1978.

Sunbirds built for sale in California and equipped with the 2.5-litre L-4 engine will have the new Phase II Catalyst System. The three-way catalytic converter is the key element of the system, which simultaneously controls hydrocarbons, carbon monoxide and oxides of nitrogen. A new catalyst coating containing Rhodium is used for oxides of nitrogen control. An oxygen sensor in the exhaust system sends a voltage signal to an electronic control unit indicating a too-lean or too-rich air-fuel ratio. The electronic unit interprets these inputs from the oxygen sensor and makes necessary adjustments in the carburetor air-fuel ratio.

(..... more)

Pontiac's sporty Firebirds are available in four models for 1978: the regular Firebird, the stylish Esprit and the performance-oriented Formula and Trans Am. A new grille and new radio options, including an integral AM/FM/CB radio and an AM/FM stereo radio with cassette tape player, are offered on the 1978 Firebirds. Also new is a special Trans Am performance package which includes a revised T/A 6.6-litre (400 c.i.d.) V-8 engine, special handling components and eight-inch wide cast aluminum wheels.

New front and rear design treatments and several new interior trims highlight the full-size Pontiacs for 1978. The Catalina, Bonneville and Bonneville Brougham all are offered as a two-door coupe and a four-door sedan; the Catalina Safari and Grand Safari are four-door two-seat station wagons with an optional third seat. The 3.8-litre V-6 is standard on Catalina coupes and sedans, with the 4.9-litre V-8 standard on all other models. Loose-cushion velour seats are standard on the Bonneville Brougham for 1978, with the boldly-striped Valencia trim optional in two color combinations on the Bonneville.

Pontiac will offer the Freeway Enforcer (heavy-duty) police package option on Catalina 4-door sedans and the Police Patrol (light-duty) police package option on Catalina 4-door sedans, Catalina Safari station wagons and Phoenix sedans.

(..... more)

Three trailer towing packages are available on 1978 Pontiacs. The heavy-duty package, for trailer loads of 2,000 to 6,000 pounds, is available on Catalina, Bonneville, Bonneville Brougham, Catalina Safari and Grand Safari. A medium-duty trailer package, for trailer loads of 2,000 to 4,000 pounds, is available on Grand Prix and LeMans models. A light-duty package for trailer loads of under 2,000 pounds is offered on the full-size Pontiacs and on the Phoenix.

# # #

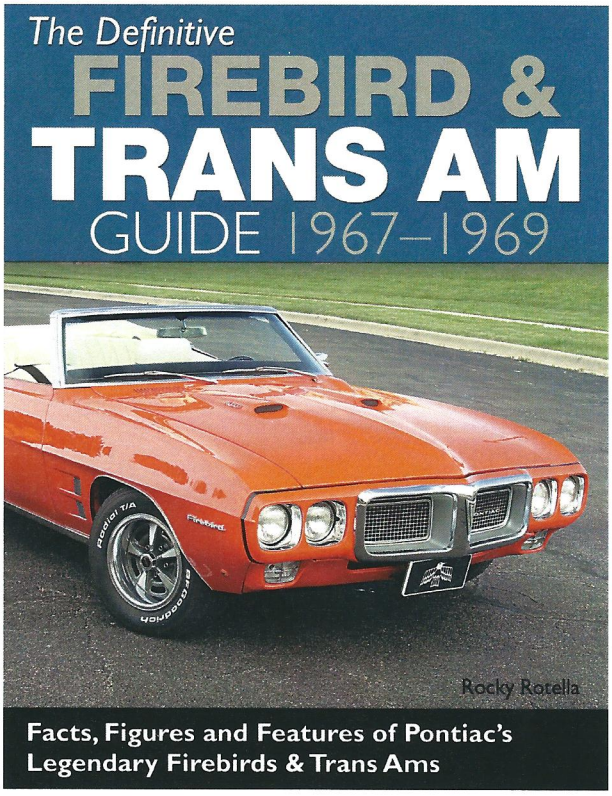
090177

The Definitive Firebird & Trans Am

book series

By Rocky Rotella

1967-1969



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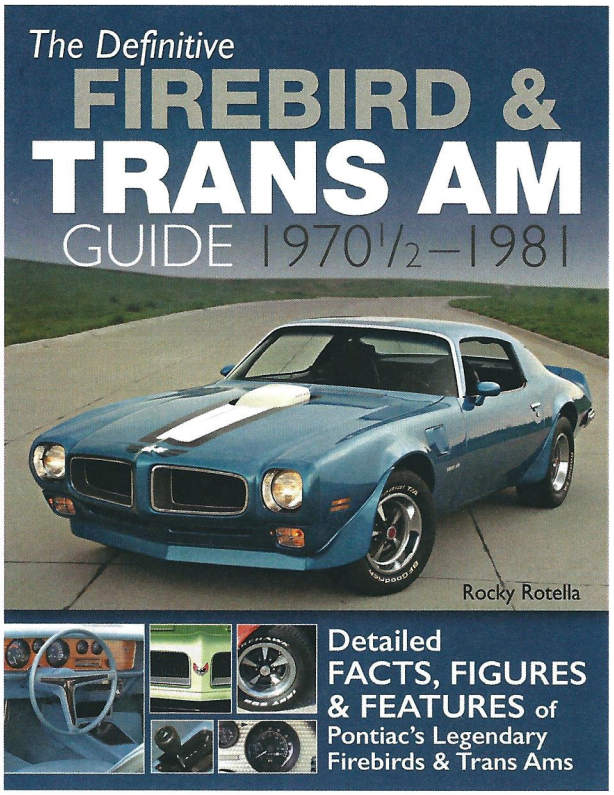

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- Never-before-seen Production Figures and Option Totals.
- Original Pontiac Documents.
- 430 photos (330 color, 100 b&w)

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For ordering, contact Rocky Rotella at jamesrotella@cox.net, 402-740-3886, or at

www.PontiacV8.com

PONTIAC FIREBIRD PRODUCTION

YEAR		BASE	ESPRIT	FORMULA	TRANS AM	TOTAL
1967	2H	67,032	--------	-------	--------	-------
	2C	15,528	--------	-------	--------	-------
	T	82,560	--------	-------	--------	82,560
1968	2H	90,152	--------	-------	--------	-------
	2C	16,960	--------	-------	--------	-------
	T	107,112	--------	-------	--------	107,112
1969	2H	75,370	--------	-------	2H 689	-------
	2C	11,649	--------	-------	2C 8	-------
	T	87,019	--------	-------	T 697	87,716
1970		37,835	--------	7,708	3,196	48,739
1971		23,021	20,185	7,802	2,116	53,124
1972		12,000	11,415	5,250	1,286	29,951
1973		14,096	17,249	10,166	4,802	46,313
1974		26,372	22,583	14,519	10,255	73,729
1975		22,293	20,826	13,670	27,274	84,063
1976		21,209	22,252	20,613	46,701	110,775
1977		30,642	34,548	21,801	68,745	155,736
1978		32,672	36,926	24,346	93,341	187,285
1979		38,642	30,853	24,850	117,109	211,454
1980		29,811	17,277	9,356	50,896	107,340
1981		20,542	10,939	5,926	33,492	70,899
1982		41,683	--------	21,719	52,960	116,362
1983		32,020	--------	10,934	31,930	74,884
1984		62,621	--------	10,309	55,374	128,304
1985		46,644	--------	5,208	44,028	95,880
1986		59,334	--------	2,259	48,870	110,463

	Base	Formula	GTA	Trans Am	Total
1987	42558	13164	11102	21788	88612
1988	28973	13475	11214	8793	62455
1989	32376	16670	9631	5727*	64404

* Includes 1555 20th Anniversary Trans Ams

1990	13212	4834	1447	1060	20553
1991	37762 cpe. 989 conv. 38751	5544	2915	4013 cpe. 637 conv. 4650	51860
1992	24364 cpe. 1325 conv. 25689	1052	508	1643 cpe. 777 conv. 2420	29669
1993	5006	3985	--	5121	14112
1994	25683 cpe. 174 conv. 25857	9225 cpe. 168 conv. 9393	-- -- --	10209 cpe 463 conv. 10672	45922
1995	26230 cpe. 2926 conv. 29156	7448 cpe. 1037 conv. 8485	-- -- --	10943 cpe. 2402 conv. 13345	50986
1996	18749	2811 524 w/WS6 3335	-- --	5885 cpe. 917 conv. 2051 w/WS6 8853	30937
1997	16392 cpe. 1226 conv. 17618	2293 cpe. 283 conv. 473 cpe w/WS6 41 conv. w/WS6 3090	-- --	5829 cpe. 927 conv. 2827 cpe w/WS6 463 conv. w/WS6 10046	30754
1998	15869 cpe. 704 conv. 16573	1900 cpe. 221 cpe. w/WS6 2 conv. w/WS6 2123		9773 cpe. 1074 conv. 2273 cpe. w/WS6 339 conv. w/WS6 13459	32155

1999	17170 cpe.	1427 cpe.	10343 cpe.	
	1245 conv.	175 cpe. w/WS6	1027 conv	
	18415	1602	3820 cpe w/WS6 **	
			1002 conv w/WS6 **	
			16192	36209
2000	13529 cpe.	1302 cpe.	6639 cpe.	
	1149 conv.	233 cpe. w/ WS6	783 conv.	
	14678	1535	7166 cpe w/ WS6	
			1025 conv w/ WS6	
			15613	31826
2001	7191 cpe.	1037 cpe.	2596 cpe.	
	2347 conv		396 conv.	
	9538		7073 cpe w/WS6	
			796 conv w/WS6	
			10861	21436
2002	8423 cpe.	901 cpe.	3962 cpe.	
	1498 conv.		998 conv.	
	9921		12212 cpe w/WS6 ***	
			2696 conv w/WS6 ***	
			19868	30690

** includes 1600 30th Anniversary Trans Ams (1065 cpe. 535 conv)

*** includes 2391 Collector Cars (1349 cpe, 1042 conv)

PRODUCTION BREAKDOWN
BY ENGINE AND TRANSMISSION

	AUTO	MANUAL	TOTAL
1967 FIREBIRD CONVERTIBLE			
V-6			2,641
326 V-8			9,229
400 V-8			3,658
TOTAL:			15,528
1969			
RAM AIR IV 400 4-bbl. (L67)	9	46	55
RAM AIR H.O. 400 4-bbl. (L74)	114	520	634
CONVERTIBLES WITH L74	4	4	8
TOTAL:	127	570	697
1970			
RAM AIR S.D 400 4-bbl. (LS1)	59	29	88
RAM AIR H.O. 4-BBL. (L74)	1,339	1,769	3,108
TOTAL:	1,398	1,798	3,196
1971			
455 H.O. 4-bbl. (LS5)	1,231	885	2,116
TOTAL:	1,231	885	2,116
1972			
455 H.O. 4-bbl. (LS5)	828	458	1,286
TOTAL:	828	458	1,286
1973			
455 S.D. 4-bbl. (LS2)	180	72	252
455 4-bbl. (L75)	3,130	1,420	4,550
TOTAL:	3,310	1,492	4,802
1974			
455 S.D. 4-BBL. (LS2)	731	212	943
455 4-bbl. (L75)	4,648	-------	4,648
400 4-bbl. (L78)	2,914	1,750	4,664
TOTAL:	8,293	1,962	10,255
1975			
455 4-bbl. (L78)	------	857	875
400 4-bbl. (L78)	20,277	6,140	26,417
TOTAL:	20,277	6,997	27,274

	AUTO	MANUAL	TOTAL
1976			
455 4-bbl. (L75)	------	7,528	7,528
400 4-bbl. (L78)	33,752	5,424	39,176
TOTAL:	33,752	12,952	46,704

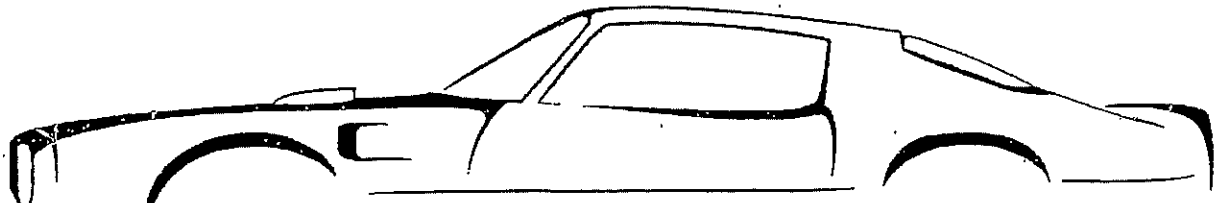
(643 Limited Edition T-Tops were produced in 1976 - 110 had L75 engines; 1,947 were produced without T-Tops - 319 had L75 engines.)

	AUTO	MANUAL	HATCH	TOTAL
1977				
400 4-bbl. (L78)	50,866	11,402	12,489	62,268
403 4-bbl. (L80)	6,476	------	1,217	6,476
TOTAL:	57,342	11,402	13,706	68,744
1978				
400 4-bbl. (L78)	70,590	12,692	31,685	83,282
403 4-bbl. (L80)	10,059	------	2,558	10,059
TOTAL:	80,649	12,692	34,243	93,341
1979				
301 4-bbl. (L37)	------	3,120	1,530	3,120
301 4-bbl. (L37)	10,316	------	3,301	10,316
400 4-bbl. (L78)	------	5,402	2,917	5,402
403 4-bbl. (L80)	79,216	------	30,728	79,216
TOTAL:	89,532	8,522	38,476	98,054
*10th. ANNIVERSARY EDITION - 1979				
400 4-bbl. (L78)	------	1,817	------	1,817
403 4-bbl. (L80)	5,683	------	------	5,683
TOTAL:	5,683	1,817	------	7,500
*BLACK SPECIAL EDITIONS - 1979				
301 4-bbl. (L37)	360	213	------	573
400 4-bbl. (L78)	------	1,107	------	1,107
403 4-bbl. (L80)	9,874	------	------	9,875
TOTAL:	10,234	1,320	------	11,554
1980				
305 5.01 4-bbl. (LG4)	3,006	(Not	1,359	3,006
301 4.91 2-bbl. (LU8)	22,176	Available	16,320	22,176
301 4.91 4-bbl. (L37)	25,714	in 1980	10,776	25,714
TOTAL:	50,896	models.)	28,465	50,896

	AUTO	MANUAL	HATCH	TOTAL
*INDIANAPOLIS EDITIONS - 1980				
301 4.91 2-bbl. (LUG) Turbo	5,700	------	------	5,700
TOTAL	5,700	------	------	5,700
*BLACK SPECIAL EDITIONS - 1980				
305 5.0L 4-bbl. (LG4)	575	------	463	575
301 4.9L 2-bbl. (LU8) (Turbo)	3,547	------	3,444	3,547
301 4.9L 4-bbl. (L37)	2,156	------	2,084	2,156
TOTAL:	6,178	------	5,991	6,178
1981				
5.0L 4-bbl. V-8 305 (LG4)	3,538	3,500	4,157	7,038
4.9L Turbo V-8 301 (LU8)	15,578	------	9,662	15,578
4.9L 4-bbl. V-8 301 (L37)	10,887	------	5,749	10,877
TOTAL:	29,993	3,500	19,568	33,493
*BLACK SPECIAL EDITIONS - 1981 - Y85				
L37	------	------	------	1,201
LU8	------	------	------	3,115
LG4	------	------	------	947
TOTAL:				5,263
1982				
305 (LG4)	32,892	7,033	------	39,925
305 Crossfire (LU5)	13,037	------	------	13,037
TOTAL:	45,925	7,033	------	52,962
1983				
5.0L 4-bbl. V-8 (LGH)	16,855	5,207	------	22,062
5.0L TBI V-8 (LU5)	9,206	------	------	9,206
5.0L H.O. V-8 (L69)	------	662	------	662
TOTAL:	26,061	5,869	------	31,930
1984				
5.0L 4-bbl. V-8 (LG4)	26,009	4,277	------	30,286
5.0L H.O. V-8 (L69)	18,037	7,051	------	25,088
TOTAL:	44,046	11,328	------	55,374

*ALL HAD HATCH ROOFS

	AUTO	MANUAL	HATCH	TOTAL
1985				
5.0L MPFI V-8 (LB9)	16,869	------	------	16,869
5.0L 4-bbl.V-8 (LG4)	20,792	4,702	------	25,494
5.0L 4-bbl. H.O. V-8 (L69)	------	1,665	------	1,665
TOTAL:	37,661	6,367	------	44,028
1986				
5.0L MPFI V-8 (LB9)				21,176
5.0L 4-bbl. V-8 (FG4)				27,668
5.0L 4-bbl. H.O. V-8 (L69)				26
TOTAL:				48,870



PHS *automotive services, inc.*

Dear Pontiac Enthusiast:

Thank you for your inquiry concerning the history package on your Pontiac. There are several items that you should be aware of:

1. The microfilm quality is not the best. In those cases where it is difficult to read, we've hand written the data. Additionally, in all cases, the copy attached is the very best we can reproduce.

2. We've attached a copy of the car order form, matching your car, for ease in decoding the manifest or billing history card. Options such as code "382" found on the manifest refer to the same option on the order form (in this case a "382" is the GTO option for 1964/65). Don't try to decode all of options from the manifest, as several codes were used to describe things as "Winter Antifreeze" and are not listed on the order form.

3. One trick is required:

Manifest Code	Car Order Form Code
503	501 - Power Steering
	502 Power Brakes

Add the 50(1) and the 50(2) to get 50(3). This applies to all manifests and billing history cards.

(Note: 1969 and newer Pontiacs have their options already decoded, so the above information need not apply.)

We have made every effort to be as thorough as possible in responding to the varied special requests that we have received, in addition to the vin information package on your vehicle. Some of these requests are, unfortunately, impossible to fill or the information requested no longer exists.

Sincerely,

PHS Historic Services

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Exp. Date:_____ **3-digit sec. code (back of card)** _____

Signature:_____

Member Information

Name:_____

Address:_____

City and State: _____

Zip/Postal Code: _____ **Country:**_____

eMail Address: _____

Phone # (_____) _____

Pontiac/Oakland or GMC vehicles owned:

_____

_____

REFERRED BY: PONTIAC HISTORICAL SERVICES

TRANS AM PRODUCTION

BREAKDOWN BY ENGINE AND TRANSMISSION

	AUTOMATIC	MANUAL	TOTAL
1969			
RAM AIR IV 400 4-bbl. (L67)	9	46	55
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1976			
455 4-bbl. (L75)	------	7,528	7,528
400 4-bbl. (L78)	33,752	5,424	39,176
TOTAL:	33,752	12,952	46,704

(643 Limited Edition T-Tops were produced in 1976 - 110 had L75 engines; 1,947 were produced without T-Tops - 319 had L75 engines.)

	AUTOMATIC	MANUAL	HATCH	TOTAL
1977				
400 4-bbl. (L78)	50,866	11,402	12,489	62,268
403 4-bbl. (L80)	6,476	------	1,217	6,476
TOTAL:	57,342	11,402	13,706	68,744
1978				
400 4-bbl. (L78)	70,590	12,692	31,685	83,282
403 4-bbl. (L80)	10,059	------	2,558	10,059
TOTAL:	80,649	12,692	34,243	93,341
1979				
301 4-bbl. (L37)	-------	3,120	(	
301 4-bbl. (L37)	10,316	------	(	
400 4-bbl. (L78)	-------	5,402	(	
403 4-bbl. (L80)	79,216	------	(	
TOTAL:	89,532	8,522	(	
*10th. ANNIVERSARY EDITION - 1979				
400 4-bbl. (L78)	-------	1,817	---------	1,817
403 4-bbl. (L80)	5,683	------	---------	5,683
TOTAL:	5,683	1,817	---------	7,500
*BLACK SPECIAL EDITIONS - 1979				
301 4-bbl. (L37)	360	213	-------	573
400 4-bbl. (L78)	-------	1,107	-------	1,107
403 4-bbl. (L80)	9,874	------	-------	9,875
TOTAL:	10,234	1,320	-------	11,554
1980				
305 5.01 4-bbl. (LG4)	3,006	(Not	1,359	3,006
301 4.91 2-bbl. (LU8)	22,176	Available	16,320	22,176
301 4.91 4-bbl. (L37)	25,714	in 1980	10,776	25,714
TOTAL:	50,896	models.)	28,465	50,896
*INDIANAPOLIS EDITIONS - 1980				
301 4.91 2-bbl. (LUG) Turbo	5,700	--------	--------	5,700
TOTAL	5,700	--------	--------	5,700

	AUTOMATIC	MANUAL	HATCH	TOTAL
*BLACK SPECIAL EDITIONS - 1980				
305 5.0L 4-bbl. (LG4)	575	------	463	475
301 4.9L 2-bbl. (LU8) (Turbo)	3,547	------	3,444	3,547
301 4.9L 4-bbl. (L37)	2,156	------	2,084	2,156
TOTAL:	6,178	------	5,991	6,178
1981				
LG4 5.0L 4-bbl. V-8	3,538	3,500	4,157	7,038
LU8 4.9L Turbo V-8	15,578	------	9,662	15,578
L37 4.9L 4-bbl. V-8	10,887	------	5,749	10,877
TOTAL:	29,993	3,500	19,568	33,493
*BLACK SPECIAL EDITIONS - 1981 - Y85				
L37	------	-------	-------	1,201
LU8	------	-------	-------	3,115
LG4	------	-------	-------	947

*ALL HAD HATCH ROOFS

Window Stickers

Did you ever wonder why new vehicles have window stickers? Many people think they are meant to show your neighbors that you bought a new car, or to annoy you with the glue residue on the window, but this is not the case.

In March of 1958, Senator Michael Monroney, Chairman of the Senate Subcommittee on Automobile Marketing Practices, proposed a bill that would take the mystery out of new car prices. This bill required every automobile manufacturer to attach a label to the window of each new vehicle, which would show the manufacturer's suggested retail price, transport methods, freight charges, and accessory prices. This would be the first time in twenty years that a consumer could walk into an automobile dealership and find an itemized, accurate price tag on a new vehicle.

Prior to the proposal of this bill, there was often a large discrepancy between the showroom price and the actual price of a new vehicle. The fact was that existing price tags did not tell the full story. Most customer-quoted prices were for "stripped-down" models and did not include additions for preparation charges, freight charges, federal, state, and local taxes, or optional factory-installed equipment requested by the purchaser.

These hidden charges were used by some dealers to increase the selling price while giving the new vehicle buyer an inflated idea of their trade-in allowance. This price confusion led to a slump in auto sales during the early 1950's. Senator Monroney's bill was designed to prevent the abuse of the new vehicle list prices, but would not, however, prevent dealers and buyers from bargaining over vehicle prices.

Senator Monroney received widespread support for this bill from both consumers and dealers. Dealers viewed the Monroney Label as an opportunity to restore the confidence of the new vehicle buyers, which they hoped would result in a more successful sales year.

On July 7, 1958, Monroney's bill became a law. Beginning on September 1, 1958, every automobile manufacturer was required to securely affix a label to the window of the vehicle, disclosing information concerning the vehicle and its price. Any manufacturer who failed to comply, could be levied a fine of not more than $1000. Removal, alteration, or illegibility of the required label could result in a fine of not more than $1000 and/or imprisonment of not more than one year.

Once enacted, the law increased both dealer morale and auto sales. Customers grew more confident in their ability to make an informed decision and get the best deal possible. This law was instrumental in brightening industry-wide automobile sales during that time, by increasing consumer confidence.

In this day and age, we tend to take window stickers for granted, but the next time you are out shopping for a new car, you can thank Senator Michael Monroney for making your job much easier.