# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

**METRIC (U.S. Customary)** 

1991

Manufacturer		Vehicle Line	
	PONTIAC MOTOR DIVISION GENERAL MOTORS CORPORATION	FIREBIRD	
Mailing Address	CHEVROLET-PONTIAC-CANADA GROUP ENGINEERING CENTER		
	GENERAL MOTORS CORPORATION	issued	Revised
	30003 VAN DYKE WARREN, MI 48090-9060	DECEMBER, 1989	APRIL, 1990

Direct questions concerning these specifications to the manufacturer listed above.

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Motor Vehicle Manufacturers Association of the United States, Inc.

Blank Forms Provided by Technical Affairs Division

Vehicle Line FIREBIRD

Model Year 1991 Issued 12-89 Revised(\*)

#### METRIC (U.S. Customary)

Vehicle Orlgin

Design & development (company)	Chevrolet-Pontiac-GM of Canada
Where built (country)	U.S.A.
Authorized U.S. Sales marketing representative	Pontiac Motor Division

#### o Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Make, Vehicle Models, Series, Body Type (Migr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
FIREBIRD				
2-Door Coupe (RWD)	2FS87	4 (2/2)	45.4 (100)	
FIREBIRD TRANS AM				
2-Door Coupe (RWD)	2FW87	4 (2/2)	45.4 (100)	
FIREBIRD FORMULA	2FS87	4 (2/2)	45.4 (100)	
2-Door Coupe (RWD)	(With W66)			
FIREBIRD GTA	2FS87	4 (2/2)	45.4 (100)	
2-Door Coupe (RWD)	(With Y84)			

 Vehicle Line
 FIREBIRD

 Model Year
 1991
 Issued
 12-89
 Revised(\*)
 4-90

METRIC (U.S. Customary)
Power Teams

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

		_	Α	B	С	D
	Engine	Code	гно	но	L03	LO3
		cement (cu. in.)	3.1 (191)	3.1 (191)	5.0 (305)	5.0 (305)
E	Inducti (Fi, Car	on system rb, etc.)	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Electronic Fuel Injection	Electronic Fuel Injection
G	Compr	ession	8.5:1	8.5:1	9.3:1	9.3:1
N E	SAE Net	Power kW(bhp)	104 (140) @ 4400	104 (140) @ 4400	127 (170) @ 4000	127 (170) @ 4000
	at RPM	Torque Newton meters (lb.ft.)	244 (180) @ 3600	244 (180) @ 3600	346 (255) @ 2400	346 (255) @ 2400
<b>i</b>	Exhau: Sing e.		Single	Single	Single	Single
TR	Transm Transa	tission/ xle	MB1 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed	M39 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed
A N S	Axle Ra (std. fir		3.42	3.23	3.08	2.73

Series A	vallability	Power Tea	ms (A - B - C - D)
Model	Code	Standard	Optional
FIREBIRD			
2-Dr. Coupe	2FS87	Α	B, C, D
FIREBIRD TRANS AM			
2-Dr. Coupe	2FW87	Ε	F, G, H
FIREBIRD FORMULA			
2-Dr. Coupe	2FS87 (With W66)	С	D, F, G, H
FIREBIRD GTA			
2-Dr. Coupe	2FS87 (With Y84)	G	Н
<del></del>			
<del></del>		· · · · · · · · · · · · · · · · · · ·	

Vehicle Line	FIRE	BIRD				
Model Year	1991	Issued	12-89	Revised(*)	4-90	

# METRIC (U.S. Customary) Power Teams

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

			E	F	G	Н
	Engine	Code	LB9	LB9	LB9	L98 ·
	Displac		5.0 (305)	5.0 (305)	5.0 (305)	5.7 (350)
E N	[ (E) C++	on system rb, etc.)	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection
G I	Compr	ession	9.3:1	9.3:1	9.3:1	9.3:1
	SAE Net	Power kW(bhp)	153 (205) @ 4200	153 (205) @ 4200	168 (230) @ 4400	179 (240) @ 4400
	at RPM	Torque Newton meters (lb.ft.)	38€ (285) @ 3200	386 (285) @ 3200	407 (300) @ 3200	461 (340) @ 3200
	Exhau Single		Single	Single	Dual	Dual
T R	Transc	mission/ axle	M39 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed	MK6 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed
	Axle R (std. f		3.C8	2.73	3.42	3.23

Series	Availability	Power Tear	ms (A - B - C - D)
odel	Code	Standard	Optional
	· · · · · · · · · · · · · · · · · · ·		
<del></del>	<u> </u>		

Vehicle Line	FIREBIE	FIREBIRD			
Model Year	1991	Issued	12-89	Revised(*)	4-90

METRIC (U.S. Customary)

Engine	Description
Engine	Code

3.1 LITER V6 (191 CID) MULTI-PORT FUEL INJECTION RPO LHO

Engine Code		MULTI-PORT FOEL INJECTION RPO LHO			
FNGINE	- GENERAL				
	ription (inline, V, angle,				
flat, location	i, front, mid, rear, longitudinal, sohe, dohe,				
ohv, hemi, v	vedge, pre-chamber, etc.)	60 deg. V, Front, Longitudinal, OHV			
Manufacture	or	C-P-C Group - G.M. Corporation			
No. of cyline	lers	6			
Bore		89mm (3.5 in.)			
Stroke		84mm (3.31 in.)			
Bore spacin	g(C/L to C/L)	111.76mm (4.40 in.)			
Cyl blok mai	ti& mass kg(lbs.)(machined)	Cast Iron, 48.15 (107.0)			
Cylinder blo	ck deck height	224.Umm (9.0 in.)			
Cylinder blo	ck length	435.5mm (17.4 in.)			
Deck cleara (above or be	nce (minimum) clow block)	0.15mm (.006 in.). Above			
Cyl. head m	aterizi & mass kg (lbs.)	Cast Iron, 13.15 (29)			
	ad volume cu. cm. (cu. in.)	51.35 (3.13)			
Cylinder line		Not Applicable			
Head gaske (compresse		1.02mm (.040 in.)			
Minimum co	mbustion chamber				
	ecu. cm. (cu. in.)	50.35 (3.07)			
Cyl. no. sys	tem L. Bank	2-4-6			
(front to rea		1-3-5			
F.ring order		1-2-3-4-5-6			
	fold mati & mass kg(lbs.) ***	Inlet Plenum - Aluminum Alloy, 3.8 (8.4)			
		Inlet Center Manifold - Aluminum Alloy, 2.4 (5.3)			
		Inlet Manifold - Aluminum Alloy, 3.2 (7.0)			
Exh. manife	old mati & mass kg (lbs.) ==	Nodular Cast Iron, Wt. Of Manifold, Fire Wall Side 3.765 (8.283);			
		Wt. Of Other Manifold, 2.630 (5.786)			
Knock sens	or (yes/no)	Yes			
	d unleaded, diesel, etc.	Unleaded			
	ock index (R + M) / 2	87			
	Quantity	2			
Engine mounts	Mati and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric			
	Added isolation (sub-frame, crossmember, etc.)				
Total dress	ed engine mass (wt) dry***	Not Available			
Engine	- Pistons				
Material & r (weight, oz.	nass, g ) – piston only	Aluminum Alloy, 388 (13.7)			
Engine	Camshaft				
Location		Cylinder Block			
Material & r	nass kg (weight, lbs.)	Cast Iron, 3.098 (6.83)			
<u> </u>	California	Chain			
Drive type	Chain/bett	15.9 x 9.375mm (.625 x.369 in.)			
	Width/pitch	19-3 ¥ 3-91-91BH (-95-9 Kroop art)			

<sup>\*</sup>Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine. \*\*Finished state. \*\*\*Dressed engine mass (weight) includes the following:

Vehicle Line 4-90 1991 Issued 12-89 Revised(\*) Model Year

**METRIC (U.S. Customary)** 

**Engine Description Engine Code** 

5.0 LITER V8 (305 CID) ELECTRONIC FUEL INJECTION RPO LO3

#### O ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, iongitudinal, soho, doho, doho

hv, hemi, we	dge, pre-chamber, etc.)	
		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group ~ G.M. Corporation
No. of cylinde	rs	в
Bore		94.89 mm (3.74 in.)
Stroke		88.39 mm (3.48 in.)
Bore spacing	(C/L to C/L)	111.8 mm (4.40 in.)
	& mass kg(lbs.)(machined)	Cast Iron, 68.674 (151.4)
	k deck height	229.4 mm (9.025 in.)
Cylinder bloc		512.8 mm (20.19 in.)
Deck clearani (above or belo	ce (minimum) ow block)	.635 mm (.025 in.) Below
<del></del>		Cast Iron, 19.800 (43.7)
	terial & mass kg (lbs.)	55.2 +/- 2.2 (3.37 +/- 0.13)
	d volume cu. cm. (cu. m.)	Not Applicable
Cylinder liner	material	Not Applicable
Head gasket (compressed	thickness )	.533 mm (.021 in.)
	nbustion chamber cu. cm. (cu. in.)	55.2 +/- 2.2 (3.37 +/- 0.13)
Cyl. no. syste	em L. Bank	1-3-5-7
(front to rear		2-4-6-8
Firing order		1-8-4-3-6-5-7-2
	old matl & mass kg(lbs.) =	Cast Aluminum, 6.900 (15.2)
	id mati & mass kg (lbs.) **	Cast Iron, 4.345 (9.6) L.H., 3.800 (8.4) R.H.
Knock sensor (yes/no)		Yes
Fuel required unleaded, diesel, etc.		Unleaded
Fuet antiknock index (R + M) / 2		87
, , , , , , , , , , , , , , , , , , , ,	Quantity	2
Engine h	Mati and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	
Total dresse	d engine mass (wt) dry	275.1 kg. (606.5 lbs.) Auto., 290.8 kg. (641.1 lbs.) Man.

### Engine - Pistons

Material & mass, g (weight, oz.) – piston only

Aluminum Alloy, .645 (1.4)

#### Engine Camshaft

Engine	e Camshan					
Location		Cylinder Block Above Crankshaft				
Material &	mass kg (weight, lbs.)					
The second of th		Steel. 4.124 (9.1)				
Drive	Chain/belt	Chain				
type	Width/pitch	15.87mm (.625 in.) / 12.7mm (.500 in.)				

<sup>\*</sup>Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine. \*\*Finished state. \*\*\*Dressed engine mass (weight) includes the following:

Vehicle Line	cle Line FIREBIF					
Model Year _	1991	Issued	12-89	Revised(*)	4-90	

#### **METRIC (U.S. Customary)**

Engine	Description
Engine	Code

5.0 LITER V8 (305 CID)	 
TUNED PORT FUEL INJECTION RPO LB9	 

Engine Code			TONED FORT FUEL INSECTION AFO LES				
ENGINE	- GEN	ERAL					
flat, location transverse, l	Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)						
			90 deg. V, Front, Longitudinal				
Manufacture	- )r		C-P-C Group - G.M. Corporation				
No. of cyline	ers		8				
Bore			94.89 mm (3.74 in.)				
Stroke			88.39 mm (3.48 in.)				
Bore spacin	(C/L to C/	L)	111.8 mm (4.40 in.)				
Cyl bick mat	i & mass kgi	(lbs.)(machined)	Cast Iron, 68.674 (151.4)				
Cylinder blo	ck deck hei	ght	229.4 (9.025)				
Cylinder blo	ck length		512.8 mm (20.19 in.)				
Deck clearar (above or be		m)	.635 mm (.025 in.) Below				
Cyl. head m.	sterial & ma	ss kg (lbs.)	Cast Iron, 9.800 (43.7)				
Cylinder hea	d volume c	u. cm. (cu. in.)	55.2 +/- 2.2 (3.37 +/- 0.13)				
Cylinder line	r matérial		Not Applicable				
Head pasket thickness (compressed)			.724 mm (.0285 in.)				
Minimum co total volume			55.2 +/- 2.2 (3.37 +/- 0.13)				
	Cyl. np. system L. Bank		1-3-5-7				
(front to rea:	<i>'</i>	R. Bank	2-4-6-8				
Firing order			1-8-4-3-6-5-7-2				
Intake manif	old matl & r	nass kg(!bs.) **	Cast Aluminum, 6.117 (13.5)				
Exh. manifo	id mati & ma	ass kg (lbs.) "	Cast Iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)				
Knock sense	r (yes/no)		Yes				
Fuel require	d unieaded	, diesel, etc.	Unleaded				
Fuelantikno	ck index (R	+ M) / 2	91				
	Quantit	у	2				
Engine mounts	Mati an hydroe damper	d type (elastomeric, lastic, hydraulic , etc.)	Elastomeric				
		isolation (sub-frame, ember, etc.)					
Total dressed engine mass (wt) dry		<del></del>	282.4 kg. (623 lbs.) Auto. 297.9 kg. (657 lbs.) Man.				
Engine							
Material & mass, g (weight, oz.) - piston only			Aluminum Alloy, .645 (1.4)				
Engine	Cameh	aft					
Engine Camshaft		44 F \$	In Block Above Crankshaft				
Material & m	ass kg (wei	ght, lbs.)					
	<del> </del>	<u> </u>	Steel, 4.200 (9.3)				
Drive type	Chain/	belt	Chain				
-,,,,,	Width/	pitch	15.976 (.625)/.5				

<sup>\*</sup>Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine.
\*\*Finished state.
\*\*\*Dressed engine mass (weight) includes the following:

Vehicle Line FIREBIRD 4-90 12-89 Revised(\*) Model Year Issued

**METRIC (U.S. Customary)** 

**Engine Description Engine Code** 

5.7 LITER V8 (350 CID) TUNED PORT FUEL INJECTION RPO L98

#### o ENGINE - GENERAL

Total dresse	d engine m	ass (wt) dry	284.5 (627) Auto.
		isolation (sub-frame, lember, etc.)	
Engine mounts		nd type (elastomeric, rlastic, hydraulic r, etc.)	Elastomeric
	Quantit	y	2
Fuel antiknock index (R + M) / 2		+ M) / 2	91
Fuel required unleaded, diesel, etc.		, diesel, etc.	Unleaded
Knock senso	r (yes/no)		Yes
Exh. manifo	id matl & ma	ass kg (lbs.) **	Cast Iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)
Intake manif	old mati & n	nass kg(lbs.) **	Cast Aluminum, 6.117 (13.5)
Firing order			1-8-4-3-6-5-7-2
(front to rear	)"	R. Bank	2-4-6-8
Cyl. no. syst		L. Bank	1-3-5-7
total volume	cu. cm. (cu.	in.)	Components In Place Torqued To Specifications.
Minimum cor	nbustian ch	namber	75.47 (4.60) Combustion Chamber With Piston At Top Dead Center And All
Head gasket thickness (compressed)			.724 mm (.0285 in.)
Cylinder liner material			Not Applicable
Cylinder hea	Cylinder head volume cu. cm. (cu. in.)		55.9 (3.40)
Cyl. head material & mass kg (lbs.)		ss kg (lbs.)	Cast Iron, 19.800 (43.7)
Deck clearan above or bei		n)	.635 mm (.025 in.) Below
Cylinder bloc	k length		506.2 mm (19.93 in.)
Cylinder bloc	k deck heig	ght	229.4 mm (9.025 in.)
Cyl bick mati	& mass kg(	lbs.Xmachined)	Cast Iron, 68.674 (151.5)
Bore spacing	(C/L to C/I	L)	111.8 mm (4.40 in.)
Stroke			88.4 mm (3.48 in.)
Bore			101.6 mm (4.00 in.)
No. of cylinds	ers	<u></u>	8
Manufacture	·		C-P-C Group - G.M. Corporation
		·- <u></u>	90 deg. V, Front, Longitudinal
lat, location, ransverse, lo	front, mid, ngitudinal,		

#### Engine - Pistons

Material & mass, g (weight, oz.) – piston only Impacted Cast Aluminum, .540 (1.2)

#### **Engine Camshaft**

Location		In Cylinder Block "V" Above Crankshaft
Material &	mass kg (weight, lbs.)	Steel. 4.200 (9.3)
Drive	Chain/belt	Chain
type	Width/pitch	15.976 (.625)/.5

PRear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine. →Finished state. →\*\*Dressed engine mass (weight) includes the following:

MYMA Specifications			Model Year	1991	Issued	12-89	Revised(*)	<del></del>	
METRIC (	U.S. Custom	ary)	_						
Engine Desc	eription		3.1 LITER V6 (191	3.1 LITER V6 (191 CID)					
Engine Code			MULTI-PORT FUE	EL INJECTI	ON RPO LHO				
Engine -	Valve Systen	<b>n</b>	•					•	
	s (std., opt., n.a.)		Standard					······································	
***************************************	Number intake/e	whatet	6/6						
Valves	Head O.D. intake		43.64 mm (1.72 in.)	/ 36.20 mm	n (1.43 in.)			<del></del>	
<del></del>	7,000 0.0.		1 10.01	7 40.40	(1,15,111)				
Engine -	Connecting !	Rods		-					
Material & mass	kg., (weight, lbs.)*		Forged Steel, .592 (	(1.30) Full A	Issembly.				
Length(axes ce	nterline to centerline	)	144.78 mm (5.7 in.)				<u> </u>	<del> </del>	
Engine -	Crankshaft				,				
Material & mass	kg., (weight, lbs.)*		Nodular Cast Iron,	17.9 (39.5)					
End thrust take	in by bearing (no.)		3						
Length & numb	er of main bearings		**, 4 Bearings						
Seal (material, c		Front	Viton/Steel, One Pi	ece					
piece design, et	(6.)	Rear	Viton/Steel, One Pie	есе					
Engine -	Lubrication S	System							
	sure kPa(psi) & engit		345-450 (50-65) @	2400					
Type oil intake (	(floating, stationary)		Stationary						
Oil filter sys. (fu	ill flow,part, other)		Full Flow						
Capacity of c/c filter-refill-L (q			Refill W/W.O. Filter	3.8 (4.0)					
Engine -	Diesel Inform	nation	(NOT APPLICABLE	)			·		
Diesel engine m	anufacturer								
Glow plug, curr	ent drain at 0 deg. F								
Injector	Туре								
Nozzie	Opening pressure	e kPa (psi)							
Pre-chamber d	esign								
Fuelin-	Manufacturer								
jection pump	Type								
Fueling, pump o	rive (belt,chain,gear	)							
Supplementary	vacuum source (type	e)			<u>-</u>			<del></del>	
Fuel heater (yes	s/no)							<del></del>	
Water separator, description (std., opt.)									
Turbo manufacturer									
Oil cooler-type (oil to engine coolent; oil to ambient air)									
Oil filter									
Engine -	Intake Syste	m	(NOT APPLICABLE	)		<del></del>	·		
Turbo charger -	- manufacturer			<u> </u>					
Super charger -	- manufacturer			<u> </u>					
Intercooler		<u> </u>							

Vehicle Line

FIREBIRD

For 3.1L V6; #1,4 = 29.5mm (1.16 in.); #2,3 = 24.0mm (0.94 in.)

Finished State

<sup>\*\*</sup> Standard measurement for width only:

IVI V IVIA	Specifica	2110112	Model Year	1991	locund	12-89	Revised(*)			
		MVMA Specifications			lasued _	12-03	- Hearsen() -	4-90	·	
METRIC	(U.S. Custom	ary)								
Engine Description			5.0 LITER V8 (3	05 CID)						
Engine Cod			ELECTRONIC FU		TON RPO L	23	<del></del>	<del></del>		
Engine -	Valve Syster	m		· · · · · · · · · · · · · · · · · · ·						
Hydraulic lifte	rs (std., opt., n.a.)		Standard							
Valves	Number intake/	xhaust	8/8							
	Head O.D. intak	e/exhaust	46.74 (1.84) / 38.10	) (1.50)	<u>.                                      </u>			<del></del>		
Engine -	Connecting	Rods								
Material & ma:	ss kg., (weight, lbs.)*	<u> </u>	Steel, .388 (.855)				<del></del> _			
Length(axes c	centerline to centerlin	•}	144,78mm (5.7 in.)							
Engine -	- Crankshaft_									
Material & ma	ss kg., (weight, lbs.)*		Nodular Cast Iron,	23.360 (51	1.50)	·		<u>-</u>		
End thrust tal	ken by bearing (no.)		5				<del></del> -			
Length & num	ber of main bearings		5				<del></del>			
Seal (material		Front	Fluroelastomer, Or	e Piece, L	ip Seal					
piece design,	etc.)	Rear	Fluroelastomer, Or	Fluroelastomer, One Piece, Lip Seal						
Engine -	- Lubrication	System								
	issure kPa(psi) <b>©</b> eng		41 (6) @ 1000/124	41 (6) @ 1000/124 (18) @ 2000/165 (24) @ 4000 (Hot)						
	e (floating, stationary		Stationary	Stationary						
	(full flow,part, other)		Full Flow	Full Flow						
Capacity of c			3.B (4.0)		<del></del>				<u></u> .	
Engine -	- Diesel Infor	mation	(NOT APPLICABLE	E)						
	manufacturer									
	irrent drain at 0 deg. F									
Injector	Туре									
Nozzie	Opening pressu	ire kPa (psi)								
Pre-chamber	r design						<u></u> _			
Fuel in-	Manufacturer	<u> </u>			<del></del>					
jection pump	Type			<del></del> -						
Fuelinj, pump drive (belt,chain,gear)								<u> </u>		
Supplementa	ry vacuum source (ty	pe)					<del> </del>			
Fuel heater (	yes/no)									
Water separa (std., opt.)	ator, description									
Turbo manuf	acturer							· · ·		
Oil cooler-ty oil to ambien	rpe (oil to engine cook it air)	ant;			. <u>-</u>					
Oil filter		-						<u> </u>		
Engine	– Intake Syst	em	(NOT APPLICABL	Ε)		<del> </del>				
	er - manufacturer									

Intercooler

Super charger - manufacturer

<sup>\*</sup> Finished State

#### Vahicle Line **FIREBIRD MVMA** Specifications Revised(\*) Model Year 1991 Issued 12-89 **METRIC (U.S. Customary)** 5.0 LITER V8 (305 CID) **Engine Description** TUNED PORT FUEL INJECTION RPO LB9 **Engine Code** Engine - Valve System Hydraulic lifters (std., opt., n.s.) Standard 8/8 Number intake/exhaust Valves 46.74 (1.84) / 38.10 (1.50) Head Q.D. intake/exhaust Engine - Connecting Rods Steel, .388 (.85) Material & mass kg., (weight, lbs.)\* 144.78mm (5.7 in.) Length(axes centerline to centerline) Engine - Crankshaft Nodular Cast Iron, 23.360 (51.50) Material & mass kg., (weight, lbs.)\* End thrust taken by bearing (no.) Length & number of main bearings Fluroelastomer, One Piece, Lip Seal Seal (material, one, two piece design, etc.) Front Fluroelastomer, One Piece, Lip Seal Rear Engine - Lubrication System 41 (6) @ 1000/124 (18) @ 2000/165 (24) @ 4000 (Hot) \*\* Normal oil pressure kPa (psi) @ eng rpm Stationary Type oil intake (floating, stationary) **Full Flow** Oil filter sys. (full flow,part, other) Capacity of c/case,less filter-refill-L (qt.) 3.8 (4.0) Engine - Diesel Information (NOT APPLICABLE) Diesel engine manufacture: Glow plug, current drain at 0 deg. F Injector Nozzle Туре Opening pressure kPa (psi) Pre-chamber design Fuel in-jection pump Manufacturer Type Fuel inj. pump drive (belt, chain, gear) Supplementary vacuum source (type) Fuel heater (yes/no)

Engine – Intake System		(NOT APPLICABLE)
Turbo charger - manufacturer		
Super charger - manufacturer	_	
Intercooler		

<sup>\*</sup> Finished State

Water separator, description (std., opt.)

Oil cooler-type (oil to engine coolant; oil to ambient air)

Turbo manufacturer

Oil filter

<sup>\*\* 485-585 (70-85) @ 2000</sup> with Manual Transmission.

MVMA Specifications			Vehicle Line FIREBIRD  Model Year 1991 Issued 12-89 Revised(*)						
METRIC (L	J.S. Customa	ary)							
Engine Desci Engine Code	ription		5.7 LITER V8 (350 CID) TUNED PORT FUEL INJECTION RPO L98						
Engine <u>- \</u>	/alve Syster	n							
Hydraulic lifters	(std., opt., n.a.)		Standard						
	Number intake/e	xhaust	8/8						
Valves	Head O.D. intak	e/exhaust	49.28 (1.94) / 38.10 (1.50)						
Engine - (	Connecting	Rods							
	kg., (weight, lbs.)*		Steet, .388 (.85)						
	iterline to centerlin	e)	144.78mm (5.7 in.)						
	Crankshaft								
	kg., (weight, lbs.)*		Nodular Cast Iron, 23.360 (51.50)						
End thrust take	n by bearing (no.)		5						
Length & numb	er of main bearings		5						
Seaf (material, c	ne, two	Front	Fluroelastomer, One Piece, Lip Seal						
piece design, et	(c.)	Rear	Fluroelastomer, One Piece, Lip Seal						
Fnoine -	Lubrication	Svstem							
	sure kPa (psi) <b>©</b> eng		41 (6) @ 1000/124 (18) @ 2000/165 (24) @ 4000 (Hot)						
	(floating, stationary		Stationary						
	ill flow,part, other)		Full Flow						
Capacity of c/c									
filter-refill-L (d	(t.)		3.8 (4.0)						
Engine -	Diesel Infor	mation	(NOT APPLICABLE)						
Diesel engine r									
	Glow plug, current drain at 0 deg. F								
Injector	Туре								
Nozzie	Opening pressi	ure kPa (psi)							
Pre-chamber design									
Fuel in-	Manufacturer								
jection pump	Туре								
Fuelinj, pump drive (belt,chain,gear)		ar)							
	y vacuum source (ty								
Fuel heater (ye									
	or, description								

Intercooler

Turbo manufacturer

Oil filter

Oil cooler-type (oil to engine coolant; oil to ambient air)

Engine - Intake System

Turbo charger - manufacturer

Super charger - manufacturer

(NOT APPLICABLE)

<sup>\*</sup> Finished State

Vehicle Line	FIREBIRD				
Model Year	1991	Issued	12-89	Revised(*)	

#### METRIC (U.S. Customary)

Engine Description Engine Code 3.1 LITER V6 (191 CID)
MULTI-PORT FUEL INJECTION RPO LHO

Coolant recove	ery system (std, opt, n.a.)	Standard			
	ation (rad., bottle)	Bottle, Coolant Recovery			
Radiator cap re kPa (psi)	elief valve pressure	103.4 (15)			
	Type (choke, bypass)	Bypass			
Circulation thermostat	Starts to open @ deg's C(F)	91 (195)			
····	Type (centrifugal, other)	Centrifugal	_		
	GPM 1000 pump rpm	15.5			
	Number of pumps	1			
Water Pump	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpent	ine)		
	Bearing type	Sealed Ball-Roller			
	Impeller material	Cast Iron			
	Housing material	Atuminum			
By-pass recirc	culation type (inter.,				
ext.)		Internal			
	With heater - L (qt.)	13.87 (14.66)			
Cooling	With air conditioner-L(q1.)	13.87 (14.66)			
Capacity Opt. equip. specify-L (qt.)					
Water jackets f	full length of cykyes,no)	Yes			
	nd cylinder (yes, no)	Yes	<del></del>		
	open at head face (yes,no)	No			
	Std., A/C, HD Auto	Standard	A/C		
	Type (cross-flow, etc.)	Cross-Flow			
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube			
Radiator	Mati., mass kg (wgt.,lbs.)	Aluminum, High Efficiency Radiator			
••••	Width	667.5 mm	667.5 mm		
	Height	437.8 mm	437.8 mm		
	Thickness	23.5 mm	23.5 mm		
	Fins per inch	3.5 mm	3.5 mm		
Radiator and to		Plastic			
	\$td., elec., opt.	Standard, Electric			
	Number of blades & type (flex, solid, material)	5, Plastic Solid			
	Diameter & projected width	423.0 (16.7)			
_	Ratio(fan to crnkshft.rev.)	Not Available			
Fan	Fan cutout type	ECM Controlled			
	Drive type (direct, remote)				
	RPM at idle (elec.)	1900 - 2100			
	Motor rating(wattage)(elec)	150W			
	Motor switch (type & location/elec.)	Part ECM			
	Switch point (temp.,/ pressure/elec.)	108 deg. C (226 deg. F)			
	Fan shroud (material)	Plastic (Integral Partial Shroud)			

<sup>@ -</sup> Distance Between Top Ot Fins.

Vehicle Line	FIRE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	

#### METRIC (U.S. Customary)

Engine Description

5.0 LITER V8 (305 CID) FLECTRONIC FUEL INJECTION RPO LOS

ngine Code		ELECTRONIC FUEL INJECTION RPO LO3					
	Cooling System	Overded.					
oplant recove	ry system (std, opt, n.a.)	Standard					
polant fill loca	tion (rad., bottle)	Bottle, Coolant Recovery					
Radiator cap re (Pa (psi)	lief valve pressure	103.4 (15.0)					
	Type (choke, bypass)	Choke					
Circulation hermostat	Starts to open @ deg's C(F)	90.6 (195)					
	Type (centrifugal, other)	Centrifugal					
	GPM 1000 pump rpm	14 (Total Cooling System Flow)					
	Number of pumps	1					
Water Pump	Drive (V-belt, other)	Single Belt Poly V Accessory Drive (Serpentine)					
	Bearing type	Sealed Double Row Ball					
	impeller material	Steel					
	Housing materia!	Cast Iron					
By-pass recirc	ulation type (inter.,						
ext.)		Internal					
	With heater - L (pt.)	16.4 (17.33)	· · · · · · · · · · · · · · · · · · ·				
Cooling system	With air conditioner-L(qt.)	17.01 (17.97)					
capacity	Opt. equip. specify=L (qt.)	Auto					
Water jackets full length of cyl(yes.no)		Yes					
	id cylinder (yes, no)	Yes					
	open at head face (yes.no)	No					
	Std., A/C, HD	Standard	A/C				
	Type (cross-flow, etc.)	Cross-Flow					
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube					
Radiator	Mati., mass kg (wgt.,lbs.)	Aluminum, High Efficiency Radiator					
COLE	Width	667.5 mm	667. 55 mm				
	Height	437.8 mm	437.8 mm				
	Thickness	23.5 mm	34.0 mm				
	Fins per inch	4.0 mm	2.5 mm				
Radiator end 1		Plastic					
national or end	Std., elec., opt.	Standard	Optional				
	Number of blades & type (flex, solid, material)	5 Plastic, Solid					
	Diameter & projected width	423.0 (16.7)					
	Ratio(fan to crnkshft.rev.)	Not Applicable					
Fan	Fan cutout type	ECM Controlled					
	Drive type (direct, remote)						
	RPM at idle (elec.)	1900 - 2100					
	Motor rating(wattage)(elec)	150W					
	Motor switch (type & location/elec.)	Temp Switch Engine Cylinder Head	A/C Control Head & A/C Pressure Switch On Liquid Line				
	Switch point (temp.,/ pressure/elec.)	223 deg. F					
		223 deg. F	<u> </u>				

<sup>@ -</sup> Distance Between Top Of Fins.

Vehicle Line	FIRE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	

#### **METRIC (U.S. Customary)**

Engine Description Engine Code 5.0 LITER V8 (305 CID)
TUNED PORT FUEL INJECTION RPO LB9

Coolant recove	ry system (std, opt, n.a.)	Standard				
Coolent fill loca	tion (rad., bottle)	Bottle, Coolant Recovery				
Radiator cap re kPa (psi)	lief valve pressure	103.4 (15)				
	Type (choke, bypass)	Choke				
Circulation Thermostat	Starts to open @ deg's C(F)	90.6 (195)				
	Type (centrifugal, other)	Centritugal				
	GPM 1000 pump rpm	12 (Total Cooling System Flow)				
	Number of pumps	11	:			
Vater 🕇	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)*				
	Bearing type	Sealed Double Row Ball				
	Impeller material	Steel				
	Housing material	Cast Iron				
By-pass recirci ext.)	rlation type (inter.,	Internal				
	With heater + L (qt.)	16.19 (17.11)				
Cooling system	With air conditioner-L(qt.)	16.33 (17.26)				
Capacity	Opt. equip. specify-L (qt.)					
Water jackets f	uli length of cyl(yes,no)	Yes				
	i cylinder (yes, no)	Yes				
	pen at head face (yes,no)	No				
	Std., A/C, HD	Standard				
1	Type (cross-flow, etc.)	Cross-Flow				
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube				
Radiator core	Mati., mass kg (wgtfbs.)	Aluminum, High Efficiency Radiator	•			
	Width	667.5 mm				
	Height	437.8 mm				
	Thickness	34.0 mm				
	Fins per inch	@ 2.5 mm				
Radiator end ta		Plastic				
	Std., elec., opt.	Standard	A/C			
	Number of blades & type (flex, solid, material)	5, Plastic, Ring				
	Diameter & projected width	423.0 (16.7)	318.0 (12.5) - 2 Fans			
	Ratio(fan to crnkshft.rev.)	Not Applicable				
Fan	Fan cutout type	ECM Controlled	ECM (LH), Switch (RH)			
	Drive type (direct, remote)					
	RPM at idle (elec.)					
	Motor rating(wattage(elec)	150 W	150 W LH/RH			
	Motor switch (type & location/elec.)	ECM	LH - ECM & A/C Pressure Switch RH - A/C Pressure Switch/ECM			
	Switch point (temp.,/ pressure/elec.)	1900 - 2100	2100 - 2200			
		Plastic (Integral Shroud)	Plastic (Unshrouded Ring)			

<sup>@ -</sup> Distance Between Top Of Fins.

<sup>- 21.36</sup>mm (0.84") Wide, 5.20mm (0.20") Thick With Uniform Dynamic Tensioner.

Vehicle Line	FIRE	BIRD			 
Model Year	1991	Issued	12-89	Revised(*)	 

**METRIC (U.S. Customary)** 

Engine Description
Engine Code

5.7 LITER V8 (350 CID)
TUNED PORT FUEL INJECTION RPO L98

Engine - Cooling System Standard Coolant recovery system (std, opt, n.a.) Bottle, Coolant Recovery Coolant fill location (rad., bottle) Radiator cap relief valve pressure kPa (psi) 103.4 (15.0) Choke Type (choke, bypass) Circulation thermostal 90.6 (195) Starts to open @ deg's C(F) Centrifugal With Cast Aluminum Housing Type (centrifugal, other) 13 GPM 1000 pump rpm Number of pumps Water Pump Single Belt Poly 'V' Accessory Drive (Serpentine)\* Drive (V-belt, other) Sealed Double Row Ball Bearing type Steel Impelter material Cast Iron Housing material By-pass recirculation type (inter., ext.) Internal 15.55 (16.43) With heater - L (qt.) Cooling system capacity 15.55 (16.43) With air conditioner-L(qt.) Opt. equip. specify-L (qt.) Yes Water jackets full length of cyl(yes,no) Yes Water all around cyander (yes, no) No Water jackets open at head face (yes.no) A/C, Standard Std., A/C, HD Cross-Flow Type (cross-flow, etc.) Construction (fin & tube mechanical, braze, etc.) Fin & Tube Radiator Aluminum Header, Tubes And Fins, Plastic Tanks Watl., mass kg (wgt.,lbs.) 667.5 mm Width 437.8 mm neight 34.0 mm Thickness œ 2.5 Fins per inch **Plastic** Radiator end tank material A/C Standard Std., elec., opt. 5-Blades, High Efficiency Curved Blades And Number of blades & type (flex, solid, material) Ring Shroud, Plastic 318.0 (12.5) - 2 Fans 423.0 (16.7) Diameter & projected width Ratio(fan to crnkshft.rev.) Fan ECM (LH), Switch (RH) **ECM Controlled** Fan cutout type Drive type (direct, remote) RPM at idle (elec.) 150 W LH/RH 150 W Motor rating(wattage)(elec) LH - ECM & A/C Pressure Switch Motor switch (type & location/elec.) **ECM** RH - A/C Pressure Switch/ECM Switch point (temp.,/ pressure/elec.) 2100 - 2200 1900 - 2100

Fan shroud (material)

Plastic (Integral Ring)

Plastic (Unshrouded Ring)

<sup>@ -</sup> Distance Between Top Of Fins.

<sup>\* - 21.36</sup>mm (0.84") Wide, 5.20mm (0.20") Thick With Uniform Dynamic Tensioner.

Vehicle Line	FIRE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	

#### METRIC (U.S. Customary)

Engine Description
Engine Code

3.1 LITER V6 (191 CID)
MULTI-PORT FUEL INJECTION RPO LHO

Induction type: car injection system, e		Fuel Injection			
Aanufacturer		AC/Rochester Products			
Carburetor no. of b	arrels	None			
Idle A/F mix.		Preset-No Adjustment Provided			
	Point of inj. (no.)	Fuel Injectors At Inlet Ports (6)			
Fuel	Constant, pulse, flow	Pulse			
njection	Control (elec., mech.)	Electronic			
	Sys. press. kPa (psi)	300 (43.5)			
	Manual	800 in Neutral			
dle spdrpm spec. neutral	Manual I				
or drive and propage if	Automatic	700 In Neutral, 650 In Drive			
(##d)	Actoriace				
ntake manifold he or water thermosti	at control (exhaust stic or fixed)	Water			
für cleaner type		Single Snorkel, Replaceable Paper Element			
Fuel filter (type/location)		Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank			
	Type (elec. or mech.)	Electric			
	Location (eng., tank)	Fuel Tank			
Fuel pump	Press. range kPa (pai)	Pressure Depends On Flow Rate And System Voltage			
	Flow rate at regulated pressure (L (pal)/hr © kPa (psi)	62.4 @ 350 (16.51 @ 50.8)			
Fuel Tank					
Capacity refill L (gi	illons)	58.7 (15.5)			
Location (describe	)	Rear Center			
Attachment		Underbody Strap			
Material & Mass ko	(weight lbs.)	Steel 8.579 (18.9)			
Filler	Location & material	Left Rear Quarter, Steel			
pipe 	Connection to tank	Solder			
Fuel line (material)		Steel			
Fuel hose (materia	l;	Rubber			
Return line (materi	al)	Steel			
Vapor line (materia	ŋ	Steel			
	Opt., n.a.	Not Available			
Extended range	Capacity L (gallons)				
tank	Location & material	•			
	Attachment	•			
	Opt., n.a.				
	Capacity L (gallons)	•			
Auxiliary	Location & material	•			
tank	Attachment	•			
	Sictr switch or valve	•			
	SICH SWILCH DI VEIVE	*			

/ehicle Line	FIRE	BIRD			 
Model Year	1991	Issued	12-89	Revised(*)	 

METRIC (U.S. Customary)

Engine Description
Engine Code

5.0 LITER V8 (305 CID)
ELECTRONIC FUEL INJECTION RPO L03

nduction type: carburetor, fuel njection system, etc.		Fuel Injection			
/lanufacturer		AC/Rochester Products			
arburetor no. of t	sarre is	None			
dle A/F mix.		Preset - No Adjustment Provided			
	Point of inj. (no.)	Fuel Injection At Throttle Body (2)			
ivel	Constant, pulse, flow	Pulse			
njection	Control (elec., mech.)	Electronic			
	Sys. press. kPa (psi)	76 (11.0)			
	Manual				
die spdrpm spec. neutral					
or drive and propage if	Automatic				
sed)	-				
ntake manifold he	eat control (exhaust				
or water thermost		Exhaust			
Air cleaner type		Replaceable Paper Element, Single Snorkel			
Fuel filter (type/location)		Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank			
Type (elec. or mech.)		Electric			
	Location (eng., tank)	Fuel Tank			
Fuel pump	Press, range kPa (ps.)	Pressure Depends On Flow Rate And System Voltage			
	Flow rate at regulated pressure (L (gal)/hr & kPa (psi))	113 <b>©</b> 83 (29.84 <b>©</b> 12.0)			
Fuel Tank					
Capacity refill L (g	pallons)	58.7 (15.5)			
Location (describ	e)	Rear Center			
Attachment		Underbody Strap			
Material & Mass k	g (weight lbs.)	Steel 8.579 (18.9)			
Filler pipe	Location & material	Left Rear Quarter, Steel			
Pipe	Connection to tank	Solder			
	)	Steel			
Fuel line (material	ar)	Rubber			
		Steel			
	naf;	0.00.			
Fuel hose (materi Aeturn line (mater		Steel			
Fuel hose (materi Return line (materi Vapor line (materi		Steel Not Available			
Fuel hose (materi Return line (materi Vapor line (materi Extended range	al)	Steel Not Available			
Fuel hose (materi Return line (materi Vapor line (materi Extended range	al) Opt., n.a.	Steel Not Available ""			
Fuel hose (materi Return line (materi Vapor line (materi Extended range	Opt., n.a.  Capacity L (gallons)	Steel Not Available " " "			
Fuel hose (materi Return line (materi Vapor line (materi Extended	Opt., n.a.  Capacity L (gallons)  Location & material	Steel Not Available " " Not Available Not Available			
Fuel hose (materia Return line (materia Vapor line (materia Extended range	al) Opt., n.a. Capacity L (gallons) Location & material Attachment	Steel Not Available  " Not Available  Not Available  "			
Vapor line (materi	Opt., n.a. Capacity L (gallons) Location & material Attachment Opt., n.a.	Steel Not Available " " Not Available Not Available			
Fuel hose (materi Return line (materi Vapor line (materi Extended range tank	al) Opt., n.a. Capacity L (gallons) Location & material Attachment Opt., n.a. Capacity L (gallons)	Steel Not Available  " Not Available  Not Available  "			
Fuel hose (materi Return line (materi Vapor line (materi Extended range tank	al)  Opt., n.a. Capacity L (gallons) Location & material Attachment Opt., n.s. Capacity L (gallons) Location & material	Steel Not Available  " Not Available  Not Available  " " " " " " " " " " " " " " " " " "			

Vehicle Line	FIRE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	 

#### METRIC (U.S. Customary)

Engine Description Engine Code 5.0 LITER V8 (305 CID)
TUNED PORT FUEL INJECTION RPO LB9

Induction type: carburetor, fuel injection system, etc.  Manufacturer  Carburetor no. of barrels  Idle A/F mix.		Fuel Injection	
		AC/Rochester Products	
		None	
		Preset - No Adjustment Provided	
	Point of inj. (no.)	Fuel Injection At Inlet Ports (8)	
Fuel	Constant, pulse, flow	Pulse	
Injection	Control (elec., mech.)	ECM	
	Sys. press. &Pa (psi)	300 (44)	
die spdrpm spec. neutral	Manual		
or drive and propane if	Automatic		
used)			
intake manifold hi or water thermost	eat control (exhaust latic or fixed)	Water	
Air cleaner type		Replaceable Paper Elements, Single Snorkel	
Fuel filter (type/lo	cation)	Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank	
	Type (elec. or mech.)	Electric	
	Location (eng., tank)	Fuel Tank	
Fuel pump	Press, range kPa (psi)	Pressure Depends On Flow Rate And System Voltage	
	Flow rate at regulated pressure (L. (gai)/hr @ kPa (psi))	93.3 @ 350 (24.65 @ 50.8)	

#### **Fuel Tank**

Fuel lank		
Capacity refill L (gallons)		58.7 (15.5)
Location (describe)		Rear Center
Attachment		Underbody Strap
Materia! & Mass kg (weight lbs.)		Steel 8.579 (18.9)
Filler	Location & material	Left Rear Quarter, Steel
pipe	Connection to tank	Solder
Fuel line (materia	al)	Steel
Fuel hose (mater	rial)	Rubber
Return line (mate	erial)	Steel
Vapor line (material)		Steel
	Opt., n.a.	Not Available
Extended range tank	Capacity L (gallons)	*
tank	Location & material	•
	Attachment	•
	Opt., n.a.	Not Available
	Capacity L (gallons)	•
Auxiliary	Location & material	h
tank	Attachment	h
	Sictr switch or valve	
	Separate fili	*

Vehicle Line	FIRE	BIRD			 
Model Year	1991	lssued	12-89	Revised(*)	 

#### METRIC (U.S. Customary)

Engine Description
Engine Code

5.7 LITER V8 (350 CID)
TUNED PORT FUEL INJECTION RPO L98

Induction type: carburetor, fuel injection system, etc.  Manufacturer  Carburetor no. of barrels  Idle A/F mix.			
		TPI - Tuned Port Fuel Injection	
		AC/Rochester Products	
		None	
		Preset - No Adjustment Provided	
	Point of inj. (no.)	Fuel Injection At Inlet Ports (8)	
Fuel	Constant, pulse, flow	Pulse	
Injection	Control (elec., mech.)	Electronic - On Board Computer	
	Sys. press, kPa (psi)	300 (43.5)	
	Manual		
ldie spdrpm (spec. neutral			
or drive and propage if	Automatic		
use:)			
Intake manifold he	eat control (exhaust		
or water thermost	atic or fixed)	Water, Thermostat	
Air cleaner type		Replaceable Paper Single Element	
Fuel filter (type/lo	cation)	Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank	
	Type (elec. or mech.)	Electric	
	Location (eng., tank)	Fuel Tank	
Fuel pump	Press, range kPa (psi)	Pressure Depends On Flow Rate And System Voltage	
•- •	Flow rate at regulated pressure (L (gal)/hr & kPa (psi)	93,3 @ 350 (24.65 @ 50.8)	

Fuel Tank	k		
Capacity refil!		58.7 (15.5)	
Location (desc		Rear Center	
Attachment		Underbody Strap	
	ss [kg (weight lbs.)]	Steel 8.579 (18.9)	
Filler	Location & material	Left Rear Quarter, Steel	
pipe	Connection to tank	Solder	
Fuel line (mate		Steel	
- Del mile (mere		B. N.	

Fuel hose (material)			
		Rubber	
Return line (mate		Steel	
Vapor line (mater		Steel	
	Opt., n.a.	Not Available	
Extended range	Capacity L (gallons)	ч	
tank	Location & material	*	
	Attachment	T	
	Opt., n.a.	Not Available	
	Capacity L (gallons)	•	
Auxiliary	Location & material	•	
tank	A-1 -1	•	

Attachment
Slotr switch or valve

 Vehicle Line
 FIREBIRD

 Model Year
 1991
 Issued
 12-89
 Revised(\*)
 4-90

METRIC (U.S. Customary)

Engine Description
Engine Code

3.1 LITER V6 (191 CID)
MULTI-PORT FUEL INJECTION RPO LHO

Engine Code			MULTI-PORT FUEL INJECTION RPO LHO			
Vehicle_	Emission (			AUTOMATIC	MANUAL .	
	Type (air injet modifications	Type (air injection, engine modifications, other)		Computer Command Control		
		Pump or pul	50	Pump		
	İ	Driven by		Beit		
Air injection	Air injection	Air distribut (head, manif etc.,)		Exhaust Manifold	Catalytic Converter	
	i	Point of enti	ry	Exhaust Manifold	Catalytic Converter	
	Exhaust Gas	Type (contro flow, open orifice, other		ECM Controlled		
	Recircu-	Exhaust sou		Exhaust Manifold	•	
xhaust mission ontrol		Point of exh (spacer, cart manifold, ot	.inj. b., :her)	inlet Manifold		
		Туре		Single Bed, Oxidizing & Reducing	Dual Bed Oxidizing & Reducing	
	1	Number of		1		
		Location(s)		Beneath RF Underbody		
Catalytic Converter	Catalytic Converter	Volume L (ca	u.in)	2.78 (170)		
		Substrate type		Monolith		
	1	Noble metal		Platinum (Pt). Rhodium (Rh)	Plat.(Pt), Palad.(Pd), Rho.(Rh)	
		Noble metal concentratio (g/cu. cm.)	· · · · · · · · · · · · · · · · · · ·	0.000838	0.001082	
<del>.</del>	Type (ventilat atmosphere, system, othe	tes to induction	•••	Induction System		
Crankcase Imission Control	Energy source	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum		
	Discharges to manifold, oth	Discharges to (intake manifold, other)		Inlet Manifold		
	Air init(breat)	eather cap,other)		Air Inlet Duct		
Evapora-	Vapor vented		e! tank	Canister		
ive mission	(crankcase, canister,othe		rburetor			
ontrol	Vapor storag			Canister .		
lectron-	Closed loop	_	•	Yes		
c System	Open loop (ye			No		
	- Exhaust					
	single with cros			Single With Dual Tailpipes		
straight thru	type (reverse fi , separate reson ass kg (weight il	ator)		1, Reverse Flow	·	
Resonator no				None		
	T	wall thickness		(a)		
xhaust ipe	Main o.d., wa	Ill thickness		(b)		
	Mati. & Mass	kg (wght.lbs.)		See Notes 4.53 (10.0)		
nter-	o.d. & wall th	ickness		Aluminum Coated Steel		
nediate	Mati. & Mass	kg (wght.lbs.)		57.15 x 1.09 mm (2.25 x 0.04 in.)	•	
pipe	Mati. & Mass kg (wght.lbs.)			Aluminum Contact Stool		
Tail	D.d. & wall th	HCKNESS		Aluminum Coated Steel		

METRIC (U.S. Customary)
SUPPLEMENTAL PAGE

Vehicle Line	FIREBIRD				
Model Year	1991	Issued	12-89	Revised(*)	

#### NOTES:

- (a) Left Hand/Right Hand Branch Stainless Steel Laminated; 50.8 x 0.76 Outer Tube, With 0.76 Thick Stainless Steel Inner Tube.
- (b) Stainless Steel Laminated; 57.15 x 0.76 Outer Tube With Stainless Steel Inner Tube 0.76 Thick.
- Muffler And Tailpipe Unit 7.62 (16.8).

Vehicle Line	FIREBIRD				
Model Year	1991	lssued	12-89	Revised(*)	

METRIC (U.S. Customary)

Engine	Description
Engine	Code

5.0 LITER V8 (305 CID)
ELECTRONIC FUEL INJECTION RPO L03

	Type (air inje modification	ction, engi: s, oth <i>er</i> )	n• -	Air Injection W/Computer Command Control
		Pump or pulse		Pump Vane
		Driven	by	V-Belt
	Air injection		ribution manifold,	Exhaust Manifold And Catalytic Converter
		Point of	l entry	Exhaust Manifold
	Exhaust Gas	Type (c. flow, or orifice.	ontrolled pen other)	Back Pressure Modulated
	Recircu- lation	Exhaus	t source	Manifold Exhaust Crossover
xhaust mission ontrol		(spacer	l exh.inj. , carb., d, other)	Inlet Manifold
		Type		Dual Bed (Oxidizing And Reducing)
		Numbe	r of	1
		Locatio	n(s)	Beneath RF Underbody
	Catalytic Converter	Volume L (culin)		2.78 (170)
	1	Substra	ite type	Monolith
	1	Noble metal type		Platinum (Pt), Paliadium (Pd), Rhodium (Rh)
		Noble r concen (g/cu. c	tration	
	Type (ventila atmosphere, system, other	Type (ventilates to atmosphere, induction		Induction System
rankcase mission ontrol	Energy source (manifold vacuum, carburetor, other)		d ner)	Manifold Vacuum
	Discharges to (intake manifold, other)			Throme Body
	Air init(breat	her cap.ot	her)	Air Cleaner
vapora-	Vapor vente	5 to	Fuel tank	Canister
ve mission	(crankcase, canister,oth	eτ)	Carburetor	Canister
entrol	Vapor storag	e provisio	1	Canister
lectron-	Closed loop	(yes/no)		Yes
ystem	Open loop (y	es/no)		No
ngine	- Exhaust	Syster	m	
ype (single, lual, other)	single with cros	ss-over,		Single With Dual Tailpipes
traight thru	type (reverse f , separate resor ass kg (weight l	ator)	<u> </u>	1, Reverse Flow
lesonator no	o. & type			None

SEE ATTACHED NOTES

Branch o.d., wall thickness

Mati. & Mass kg (wght.lbs.)

Mati. & Mass kg (wght.ibs.)

Mati. & Mass kg (wght.lbs.)

Main o.d., wall thickness

o.d. & wall thickness

o.d. & wall thickness

(a)

(b)

(See Notes) 4.07 (9.0)

Aluminum Coated Steel

Aluminum Coated Steel

57.15 x 1.14 mm (2.25 x .045 in.)

63.5 x 1.07 mm (2.25 x 0.042 in.)

Exhaust pipe

Intermediate pipe

Tail pipe

 Vehicle Line
 FIREBIRD

 Model Year
 1991
 Issued
 12-89
 Revised(\*)

METRIC (U.S. Customary)	
SUPPLEMENTAL PAGE	

(a) Left Hand/Right Hand Branch - Stainless Steel Laminated; 50.8 x 0.76 Outer Tube, With 0.76 Thick Stainless Steel Inner Tube.

- (b) Stainless Steel Laminated; 57.15 x 0.76 Outer Tube With stainless Steel Inner Tube 0.76 Thick.
- \* Muffler And Tailpipe Unit 8.732 (19.3).

Vehicle Line	FIRE	BIRD			
Model Year _	1991	Issued	12-89	Revised(*)	

#### METRIC (U.S. Customary)

Engine Description Engine Code 5.0 LITER V8 (305 CID)
TUNED PORT FUEL INJECTION RPO LB9

<u>Vehicle</u>	Emission •	Control	Single Converter (Without N10)	Dual Converters (With N10)	
	Type (air injer modifications	ction, angine s, other)	Air Injection W/ Computer Command Control		
		Pump or pulse	Air Pump		
•	1	Driven by	Belt		
	Air injection	Air distribution (head, manifold, etc.,)	Exhaust Manifold And Catalytic Converter		
		Point of entry	Exhaust Manifold		
	Exhaust Gas	Type (controlled flow, open orifice, other)	Back Pressure Modulated Controlled Flow		
	Recircu- lation	Exhaust source	Manifold	•	
xhaust mission Control		Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold		
		Туре	Dual Bed, Oxidizing & Reducing		
		Number of	One	Two	
		Location(s)	Beneath RF Underbody		
	Catalytic Converter	Volume L (cu.in)	2.78 (170)		
		Substrate type	Monolith		
	į	Noble metal type	Platinum (Pt), Palladium (Pd), Rhodium (Rh)		
		Noble metal concentration (g/cu. cm.)	0.001096		
	Type (ventilates to atmosphere, induction system, other)		Induction System		
Crankcase Emission Control	Energy sourc		Manifold Vacuum		
	Discharges to (intake manifold, other)		Intake Manifold		
	Air init/breath	ner cap, other)	Throttle Body		
vapora-	Vapor vented	to Fuel tank	Canister		
wa mission	(crankcase, canister othe	r) Carburetor			
entrol	Vapor storage	provision_	Canister		
lectron-	Closed loop (	yes/no)	Yes		
: System	Open loop (ye	es/nc)	No	·	

Engine	- Exhaust System	Single Converter (Without N10)	Dual Converters (With N10)	
Type (sing dual, other	le, single with cross-over, r)	Single With Dual Tailpipes		
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.)		1, Reverse Flow		
Resonator	no. & type	None	•	
	Branch o.d., wall thickness	(a)	(c)	
Exhaust pipe	Main o.d., wall thickness	(b)	(d)	
	Mati. & Mass kg (wght.lbs.)	4.07 (9.0)	15.68 (34.6)	
Inter-	o.d. & wall thickness	57.15 x 1.14mm (2.25 x .045 in.)	69.85 x 1,40mm (2.75 x 0.05 in.)	
mediate pipe	Matil & Mass kg (wght.lbs.)	Aluminum Coated Steel		
Tail	o.d. & wall thickness	63.5 x 1.07 mm (2.25 x .04 in.)		
pipe	Matl. & Mass kg (wpht.fbs.)	Aluminum Coated Steel		

<sup>\*</sup> Muffler & tailpipe unit 8.845 (19.5). (SEE FOOTNOTES ON PAGE 7.5).

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Vehicle Line FIREBIRD

Model Year 1991 Issued 12-89 Revised(\*)

METRIC (U.S. Customary)
SUPPLEMENTAL PAGE

NOTE: The Exhaust Pipe Has Two Converters In Each Branch Of The Pipe.

<sup>(</sup>a) Laminated - Stainless Steel Outer Pipe, 63.5 x 1.016 (2.5 x 0.04), Steel Inner Pipe.

<sup>(</sup>b) Laminated - Stainless Steel Outer Pipe, 76.2 x 1.016 (3.0 x 0.04), Steel Inner Pipe.

<sup>(</sup>c) 57.15 x 1.37 Thickwall Stainless Steel.

<sup>(</sup>d) 63.5 x 1.37 Thickwall Stainless Steel. W-Tube 69.85 x 1.37 Thickwall Stainless Steel.

Vehicle Line	FIREE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	

**METRIC (U.S. Customary)** 

Engine Description Engine Code 5.7 LITER V8 (350 CID)
TUNED PORT FUEL INJECTION RPO L98

#### Vehicle Emission Control

	Type (air injer modifications	ction, engi s, other)	ine 	Air Injection W/Computer Command Control		
		Pump	or pulse	Air Pump		
		Driven	by	Belt		
	Air injection		tribution manifold,	Exhaust Manifold And Catalytic Converter		
•		Point o	of entry	Exhaust Manifold		
	Exhaust Gas	flow, o	controlled open , other)	Back Pressure Modulated Controlled Flow		
	Recircu~ lation	Exhau	stsource	Manifold		
Exhaust Emission Control		(space	of exh.inj. r, carb., ild, other)	Inlet Manifold		
		Type		Dual Bed, Oxidizing & Reducing		
		Number of		2		
		Location(s)		Beneath RF Underbody		
	Catalytic Converter	Volume L (cu.in)		2.78 (170)		
•		Substrate type		Monolith		
	i	Noble metal type		Platinum (Pt), Palladium (Pd), Rhodium (Rh)		
		Noble concer (g/cu. t	itration	0.001096		
,	Type (ventilates to atmosphere, induction system, other)			Induction System		
Crankcase Emission Control	Energy source (manifold vacuum, carburetor, other)			Manifold Vacuum		
	Discharges to (intake manifold, other)			Intake Manifold		
	Air init(breat)	ner cap.ot	her)	Throttle Body		
vapora-	Vapor vented	to	Fue! tank	Canister		
mission	(crankcase, canister,othe	er)	Carburetor			
Control	Vapor storag	e provisio	n	Canister		
Electron-	Clased loop (	yes/no)		Yes		
c System	Open loop (yes/nc)			No		

#### Engine - Exhaust System Dual Converters (With N10)

	Engine - Exhaust Official		Ban Content (Train 1970)	
	Type (single, dual, other)	single with cross-over,	Single With Dual Talipipes	
	Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.) Resonator no. & type		1, Reverse Flow	
			None	
	Exhaust pipe	Branch o.d., wall thickness	(a)	
		Main o.d., wall thickness	(b)	
		Mati. & Mass kg (wght.lbs.)	15.68 (34.6)	
•	Inter-	o.d. & wall thickness	69.85 x 1.40 mm (2.75 x 0.05 in.)	
	mediate pipe	Mati. & Mass kg (wght.lbs.)	Aluminum Coated Steel	
٠	* Tail	o.d. & wall thickness	63.5 x 1.07 mm (2.25 x .04 in.)	
	pipe	Mati. & Mass kg (wght.lbs.)	Aluminum Coated Steel	

<sup>(</sup>a) 57.15 x 1.37 Thickwall Stainless Steel.

<sup>(</sup>b) 63.5 x 1.37 Thickwall Stainless Steel. W-Tube 69.85 x 1.37 Thickwall Stainless Steel.

<sup>\*</sup> Muffler & Tailpipe Unit 8.845 (19.5).

Vehicle Line	FIRE	BIRD			 
Model Year	1991	Issued	12-89	Revised(*)	

### METRIC (U.S. Customary)

**Engine Description Engine Code** 

3.1 LITER V6 (191 CID) MULTI-PORT FUEL INJECTION RPO LHO

Transmissions/Transaxle (Std., O	pt., N.A.)	
Manual 3-speed (manufacturer/country)	Not Available	
Manual 4-speed (manufacturer/country)	Not Available	
Manual 5-speed (manufacturer/country)	Standard	
Automatic (manufacturer/country)	Optional	
Auto, overdrive (manufacturer/country)	Optional	

_	Transmission/Transaxle	5
ADMINISTRATION IN	1st	4.03
	2nd	2.37
Gear	3rd	1.50
atios	4th	1.00
	5th	0.76
	Reverse	3.76
Synchronou	s meshing (specify gears)	All Forward Gears
Shift lever lo		Floor
	mat'l. & mass kg (fbs)*	Aluminum
	Capacity L (pt.)	2.8 (5.9)
Lubricant	Type recommended	Dexron II

Clutch (Manual Transmission) Belleville Clutch manufacturer Clutch type (dry, wet; single, multiple disc) Dry Disc Hydraulic Linkage (hyd., cable, rod, lever, other)

Max. pedal 6	Max pedal effort (nom. Depressed		130		
spring load)	N (ibs.)	Released			
Assist (sprin	ng, power/percent, non	ninal)	None		
	ure plate springs		Diaphragm		
	load (nominal) N (lbs.)	<del></del>	5750 (1293)		
	Facing mfgr. & ma		Valeo/F202		
	Facing matl. & construction  Rivets per facing		Non-Asbestos		
			16		
Outside x inside dia. (nom.)		ia. (nom.)	232.0 x 155.0 mm (9.125 x 6.125 in.)		
C1.4-5			234.0 (36.28)		

Release bearing type & method lub.  Torsional damping method, springs, hysteresis		Self Centering Angular Contact Ball Bearing Pre-Packed And Sealed	
	Engagement cushion method	Driven Plate Wave Spoke Springs	<u></u>
	Rivet depth (pressure plate side/fly wheel side)	1.1 mm (.043 in.)	
facing	Thickness (pressure plate side/fly wheel side)	3.2/3.2	
Clutch	Total eff.area sq cm (sq in)	234.0 (36.28)	
	Outside x inside dia. (nom.)	232.0 x 155.0 mm (9.125 x 6.125 in.)	
	Rivets per facing	16	

<sup>\*</sup> Includes shift linkage, lubricant, and clutch housing. If other specify.

Vehicle Line	FIREBIRD		·		
Model Year _	1991	Issued	12-89	Revised(*)	

#### **METRIC (U.S. Customary)**

Engine	Description
Engine	Code

5.0 LITER V8 (305 CID)
ELECTRONIC FUEL INJECTION RPO L03

Transmissions/Transaxle (Std., C	opt., N.A.)	·
Manual 3-speed (manufacturer/country)	Not Available	
Manual 4-speed (manufacturer/country)	Not Available	
Manual 5-speed (manufacturer/country)	Standard	
Automatic (manufacturar/country)	Ontional	

Autonatic (manufacturer/country)

Optional

Auto. overdrive (manufacturer/country)

Optional

Manual Transmission/Transaxie		(M39)
Number of f	orward speeds	5
	181	2.95
	2nd	1.94
Gear	3rd	1.34
ratios	4th	1.00
	5th	0.63
	Reverse	2.76
Synchronou	s meshing (specify gears)	All Forward Gears
Shift lever lo	cation	Floor
Trans. case	mat'i. & mass kg (ibs)"	Aluminum
	Capacity L (pt.)	2.8 (5.9)
Lubricant	Type recommended	Dexron II

Clutch (Manual Transmission)

Clutch manufacturer			Belleville
Clutch type (dry, wet; single, multiple disc)		ole .	Dry Disc
Linkage (hy	yd., cable, rod, lever,oth	er)	Hydraulic
	effort (nom.	Depressed	150
spring load	) N (IDS.)	Released	
Assist (spri	ing, power/percent, nom	inal)	None
Type press	ure plate springs		Diaphragm
Total spring	g load (nominal) N (lbs.)		7750 (1742)
	Facing mfgr. & mat	. coding	Valeo/F202
	Facing matl. & construction		Non-Asbestos
	Rivets per facing		18
	Outside x inside dia. (nom.)		254.0 x 165.0 mm (10.0 x 6.5 in.)
Clutch	Total eff.area sq cm (sq in)		293.0 (45.43)
facing	Thickness (pressure plate side/fly wheel side)  Rivet depth (pressure plate side/fly wheel side)		3.45/3.45
			1.1 mm (.043 in.)
	Engagement cushion method		Driven Plate Wave Spoke Springs
Release be	aring type & method lub		Self Centering Angular Contact Ball Bearing Pre-Packed And Sealed
Torsional damping method, springs, hysteresis		·.	Coil Springs With Non-Metal Friction Control

 $<sup>\</sup>ensuremath{^{\circ}}$  Includes shift linkage, fubricant, and clutch housing. If other specify,

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Vehicle Line	FIREBIRD				
Model Year	1991	Issued	12-89	Revised(*)	

#### METRIC (U.S. Customary)

Engine Description Engine Code 5.0 LITER V8 (305 CID)
TUNED PORT FUEL INJECTION RPO LB9

Transmissions/Transaxie (Std., Opt., N.A.)

Transmissions/Transaxie (510.,	Opt., N.A./	
Manual 3-speed (manufacturer/country)	Not Available	
Manual 4-speed (manufacturer/country)	Not Available	
Manual 5-speed (manufacturer/country)	Standard	
Automatic (manufacturer/country)	Optional	
Auto. overdrive (manufacturer/country)	Optional	

Manual	Transmission/Transaxie	(M39)	(MK6)
	prward speeds	5	5
	1at	2.95	2.75
	2nd	1.94	1.94
Gear	3rd	1.34	1.34
atios	4th	1.00	1.00
	5th	0.63	0.73
	Reverse	2.76	2.76
Synchronou	s meshing (specify gears)	All Forward Gears	
Snift lever k		Floor	
	mat'l. & mass kg (lbs)*	Aluminum	
	Capacity L (pt.)	2.8 (5.9)	
Lubricant	Type recommended	Dexron II	
	1		

Clutch (Manual Transmission)

Clutch manu	Clutch manufacturer		Belleville
Clutch type (dry, wet; single, multiple disc)		ole:	Dry Disc
Linkage (hy	d., cable, rod, lever, oth	er)	Hydraulic
	effort (nom.	Depressed	150
apring load)	N (IDS.) 	Released	
Assist (sprir	ng, power/percent, nom	inal)	None
Type pressu	ure plate springs		Diaphragm
Total spring	load (nominal) N (Ibs.)		7750 (1742)
	Facing mfgr. & mat	l, coding	Valeo/F202
	Facing matt. & construction		Non-Asbestos
	Rivets per facing		18
	Outside x inside dia. (nom.)		267.0 x 165.0 mm (10.5 x 6.5 in.)
Clutch	Total eff.erea sq cm (sq in)		346.0 (53.6)
facing	Thickness (pressure plate side/fly wheel side)		3.45/3.45
	Rivet depth (pressure plate side/fly wheel side)		1,1 mm (.043 in.)
	Engagement cushion method		Driven Plate Wave Spoke Springs
Release be	aring type & method lut	o	Self Centering Angular Contact Ball Bearing Pre-Packed And Sealed
Torsional damping method, springs, hysteresis		5,	Coil Springs With Non-Metal Friction Control

<sup>\*</sup> includes shift linkage, lubricant, and clutch housing. If other specify,

Vehicle Line	FIREBIRD				
Model Year	1991	_ Issued _	12-89	Revised(*) _	

METRIC (U.S. Customary)

Engine	Description
Engine	Code

5.7 LITER V8 (350 CID)
TUNED PORT FUEL INJECTION RPO L98

Transmissions/Transaxle (Std., Op	t., N.A.)	
Manual 3-speed (manufacturer/country)	Not Available	
Manual 4-speed (manufacturer/country)	B .	
Manual 5-speed (manufacturer/country)		
Automatic (manufacturer/country)	Standard	
Auto. overdrive (manufacturer/country)	Standard	
	<del></del>	
Manual Transmission/Transaxle	(NOT AVAILABLE)	

Manual Transmission/Transaxle		(NOT AVAILABLE)
Number of fe	orward speeds	·
	1st	
	2nd	
Gear	3rd -	
ratios	4th	
	Sth	
	Reverse	
Synchronou	s meshing (specify gears)	
Shift lever lo	pcation	
Trans. case	mat"l. & mass kg (ibs)*	
	Capacity L (pt.)	
Lubricant	Type recommended	
	1	

Clutch	(Manual Transmi	ssion)	(NOT AVAILABLE)
Clutch man	nufacturer		
Clutch type disc)	e (dry, wet; single, multiple	•	
Linkage (h)	yd., cable, rod, lever,other)		
Max. pedal	effort (nom.	Depressed	
spring load	I) N (IDS.)	Released	
Assist (spri	ing, power/percent, nomina	17)	
Type press	sure plate springs		
Total spring	g load (nominal) N (lbs.)		
_	Facing mtgr. & matt. coding		
	Facing matt. & construction		
	Rivets per facing		
	Outside x inside d.a. (nom.)		
Clutch	Total eff.area sq cm (sq in)		
facing	Thickness (pressure plate side/fly wheel side)		
	Rivet depth (pressure plate side/fly wheel side)		
	Engagement cushion	method	
Release be	aring type & method lub.		
Torsional d hysteresis	lamping method, springs,		

<sup>\*</sup>Includes shift linkage, lubricant, and clutch housing. If other specify.

Vehicle Line	FIRE	BIRD			 	
Model Year	1991	issued	12-89	Revised(*)		

#### METRIC (U.S. Customary)

Engine Description **Engine Code** 

3.1 LITER V6 (191 CID) MULTI-PORT FUEL INJECTION RPO LHO

Engine Code		MOETI TOTAL TOES THE CONTROL OF THE
Automatic	Transmission/Transaxi	e
rade Name		
Type and special	l teatures (describe)	4-Speed Automatic
	Location (column, floor, other)	Column & Floor
3ear selector	Ltr./No. designation (e.g. PRND21)	P-R-N- D -D-2-1
	Shift interlock (yes, no, describe)	No
	1st	2.92
_	2nd	1.56
Gear ratios	3rd	1.00 (Converter Clutch Engagement)
	4th	0.70 (Converter Clutch Engagement)
	Reverse	2.38
Max, upshift sp	eed - drive range	1-2 = 40 (25)
(km/h (mph))		2-3 = 166 (103)
Max. kickdown	speed - drive range	4-3 = 140 (87
[km/h (mph)]		3-2 = 105 (65)
		2-1 = 60 (37)
Min. overdrive s	speed [km/h (mph)]	68 (42)
	Number of elements	3
	Max. ratio at stall	2.22
Torque converter	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245mm (9.8 in.)
	Capacity factor "K"	177
	Capacity (refill L(pt.))	8.75 (18.38)
Lubricant	Type recommended	Dexron II
Oil cooler (std., external, air, liq	opt., N.A., internal,	Standard, Integral Part Of Radiator
Trans, mass kp	(lbs) & case mati."	83.3 (183.26)
	/ 4 Wheel Drive	(NOT APPLICABLE)
Desc. & type (p	ert-time, full-time, moving, mech., elect.,	
Transfer case	Manufacturer and model	
	Type and location	
Low-range ger	ar ratio	
	nect (describe)	
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split(% frt/rear)	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

<sup>\*</sup>Input speed / square root of torque.

\*\*Dry weight including torque converter. If other, specify.

Vehicle Line	FIRE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	

#### **METRIC (U.S. Customary)**

Engine Description **Engine Code** 

5.0 LITER V8 (305 CID) ELECTRONIC FUEL INJECTION RPO LOS

Automatic	Transmission/Transax	(See Power Teams for Transmission Usage)	<del></del>
Trade Name		700-R4'	'200-4R'
Type and specia	al features (describe)	4-Speed Automatic Torque Converter With Planetary Gears	
	Location (column, floor, other)	Steering Column	
Gear selector	Ltr./No. designation (e.g. PRND21)	P-R-N- D -D-2-1	
	Shift interlock (yes, no, describe)		•
	181	306	2.74
	2nd	1.63*	1.57
Gear 'atios	3rd	1.00*	1.00*
	41h	0.70*	0.67*
	Reverse	2.29	2.07
Max. upshift spi	eed - drive range	1-2 = 60 (37.5)	
[km/h (mph)]		2-3 = 108 (67)	Not Available
Max. kickdown s	speed – drive range	3-2 = 100 (62)	
[km/h (mph)]	•	2-1 = 45 (28)	и
Min. overdrive s	speed [km/h (mph)]	67 (41.5)	7
	Number of elements	3	
	Max. ratio at stall	5.8:1	Not Available
eupioT	Type of cooling (air,		
converter	liquid)	Liquid	
	Nominal diameter	298 (11.75)	·
	Capacity factor "K"		
	Capacity (refill L(pt.))	3.0 (6.3)	
Lubricant	Type recommended	Dexron II	
Oil cooler (std., ( external, air, liqu	opt., N.A., internal, uid)	Standard, Integral With Radiator	
Trans, mass kg (	(lbs) & case mati.**	Aluminum	
All Wheel	/ 4 Wheel Drive	(NOT AVAILABLE)	
Desc. & type (pa	art-time, full-time, moving, mech., elect.,		
Transfer case	Manufacturer and model		
	Type and location		
Low-range gear	rratio		
System disconn	nect (describe)		
Center	Type (bevel, planetary, w or w/o viscous bias,		
differential	torsen, etc.)		

<sup>\*</sup>Input speed / square root of torque.
\*\*Dry weight including torque converter, If other, specify.

Vehicle Line	FIRE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	

#### METRIC (U.S. Customary)

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**Engine Description** Engine Code

		 	 	-
5.0 LITER V8 (305 CID)				
TUNED PORT FUELINJECTION RPG	) LB9	 	 	

rade Name		'700-R4'
ype and specia	Ifeatures (describe)	4-Speed Automati Torque Converter with Clutch
	Location (column, floor, other)	Floor Console
Gear selector	Ltr./No. designation (e.g. PRND21)	P-R-N- D -D-2-1
	Shift interlock (yes, no, describe)	
	1st	3.06
	2nd	1.63
Gear atios	3rd	1.00 <sup>4</sup>
	4th	0.70*
	Reverse	2.29
Max. upshift sp [km/h (mph)]	eed – drive range	1-2 = 66 (41), 23 = 122 (76)
Max. kickdown : [km/h (mph)]	speed – drive range	3-2 = 116 (72), -1 = 63 (39)
Min, overdrive s	peed [km/h (mph)]	66 (41)
	Number of elements	3
	Max. ratio at stall	2.15
Torque converter	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298 (11.75)
	Capacity factor "K"	115
	Capacity (refill L(pt.))	4.7 (10.0)
Lubricant	Type recommended	GM Dexron II
Oil cooler (std., external, air, liq	opt., N.A., internal, uid)	Standard Integra With Radiator
Trans. mass kg	(lbs) & case mati.**	Aluminum 74.2 (13.5)
All Wheel	/ 4 Wheel Drive	* Torque Convertr Clutch in 3rd & 4th Gears. (NOT APPLICABLE)
Desc. & type (p.	art-time, full-time, moving, mech., elect.,	
Transfer case	Manufacturer and model	
	Type and location	
Low-range gea	ir ratio	
System discon		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split(% frt/rear)	

<sup>\*</sup>Input speed / square root of torque.
\*\* Dry weight including torque converter. If other, spec y.

Vehicle Line	FIREBIRD		•		
Model Year	1991	Issued	12-89	Revised(*)	

#### METRIC (U.S. Customary)

Engine	Description
Engine	Code

5.7 LITER V8 (350 CID)	
TUNED PORT FUEL INJECTION RPO L9	8

•						
Automatic	Transmission/Transax	ile				
Trade Name		'700-R4'				
Type and special features (describe)		4-Speed Automatic Torque Converter with Clutch				
Gear selector	Location (column, floor, other)	On Floor Console				
	Ltr./No. designation (e.g. PRND21)	P-R-N- D -D-2-1				
	Shift interlock (yes, no, describe)	• •				
	1s1	3.06				
	2nd	1.63				
Gear ratios	3rd	1.00*				
	4th	0.70*				
	Reverse	2.29				
Max. upshift speed – drive range [km/h (mph)]		1-2 = 63 (39), 2-3 = 125 (78) 3-4 = 197 (125)				
Max. kickdown speed – drive range [km/h (mph)]		3-2 = 104 (65). 2-1 = 57 (35)				
Min. overdrive speed (km/h (mph))		65 (41)				
	Number of elements	3				
Torque converter	Max. ratio at stall	1.91				
	Type of cooling (air, biquid)	Liquid				
	Nominal diameter	298 (11.75)				
	Capacity factor "K"	100				
	Capacity (refill L(pt.))	4.7 (10.0)				
Lubricant	Type recommended	GM Dexton II				
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard Integral With Radiator				
Trans. mass kg (lbs) & case matt.**		Aluminum 74.2 (163.5)				
	· · · · · · · · · · · · · · · · · · ·	* Torque Converter Clutch in 3rd & 4th Gears.				
All Wheel	/ 4 Wheel Drive	(NOT APPLICABLE)				
	art-time, full-time, moving, mech., elect., )					
Transfer case	Manufacturer and model					
	Type and location					
Low-range gear	ratio					
System disconn	nect (describe)					
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)					
	Torque splitt's frt/rear)					

<sup>\*</sup>Input speed / square root of torque.
\*\*\* Dry weight including torque converter. If other, specify.

MVMA Specifications		Vehicle Line		BIRD	10.00	Daving (1)			
		Model Year	1991	isaneq	12-89	Revised(*)			
METRIC	(U.S. Customary)								
Engine Description Engine Code			3.1 LITER V6 (191 CID)						
			MULTI-PORT FUEL INJECTION RPO LHO						
			ALCOHATIC MOS				MANUAL - MB1		
Axle Ratio and Tooth Combinations		nions	AUTOMATIC - MD8				3.42 (2.60)	-	
Axle ratio (or overall top gear ratio)			3.23 (226) 7.625 in.				7.625 in.		
Ring gear o.d					. <del></del>		12		
No. of teeth	Pinion		13				41		
	Ring gear		72						
Rear Ax	ie Unit								
Description			Salisbury/Beam Ho	using					
Limited slip differential (type)			Not Applicable						
	Туре		Hypoid						
Drive pinion	Offset		1.50						
No. of differential pinions			2						
Pinion/	Adjustment (shim, etc.)		Shim						
differential	Bearing adjustment		Shim				_ <del></del>		
Driving whee	el bearing (type)		Cylindrical Roller Direct On Shafts, Drawn Cup						
	Capacity L (pt.)		1.66						
Lubricant	Type recommended		GL-5 Gear Lubrica	int			<u> </u>		
		Dalaa							
_	er Shaft - Rear Wheel	Drive	Saginaw Division						
Manufacturer Type (straight tube, tube-in-tube,			_	ternal Dar	nner				
internal-exte	rnal damper, etc.)		Straight Tube W/Internal Damper  Not Applicable						
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Applicable						
	Manual 4-speed transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)						
	Manual 5-speed transmission		Not Available						
	Overdrive Automatic transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)						
	Automatic transmission  Type (plain, anti-friction)		Not Applicable						
Inter- mediate bearing Slip yoke			Not Applicable						
	Lub. (fitting, prepack) Type		Splined						
	Number of teeth		27						
	Spline o.d.		29.84 mm (1.174 in.)						
	Make and mfg. no.	Front	Saginaw Division	, <u> </u>			<u> </u>		
		Rear	Saginaw Division						
	Numberused	1	2						
	Type (ball and trunnion, cross)				· · · · · · · · · · · · · · · · · · ·				

Ar. attach(v-bolt,clamp,etc)

Bearing

Drive taken through (torque tube, arms or springs)

Torque taken through (torque tube, arms or aprings)

Type (plain, anti-friction)

Lubrication (fitting, prepack)

Cross

Strap & Bolts

Anti-Friction

Prepacked

Propeller Shaft Assembly

Torque Arm Assembly

Universal joints

 $<sup>^{\</sup>circ}$  Centerline to centerline of universal joints, or to centerline of attachment.

<sup>\* 70</sup>mm (2.75 in) Dia. Aluminum Shaft Replaces Base Steel Shaft Where Necessary For Weight Reduction.

<b>MVMA</b> Specifica	tions
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Vehicle Line	FIRE	BIRD			
Model Year	1991	lasued	12-89	Revised(*)	

#### **METRIC (U.S. Customary)**

Engine Description
Engine Code

5.0 LITER V8 (305 CID)

THROTTLE BODY INJECTION RPO LOS

Axie R	atio and Tooth Combine	ations AUTOMATIC - MD8	MANUAL - M39
	or overall top gear ratio)	2.73 (1.91)	3.08 (1.94)
Ring gear o		7.625	7.625
No. of	Pinion	15	13
teath	Ring gear	41	40

#### Rear Axle Unit Salisbury/Beam Housing Description Not Applicable Limited slip differential (type) Hypoid Type Drive plaion 1.50 Offset No. of differential pinions Shim Adjustment (shim, etc.) Shim Bearing adjustment Cylindrical Roller Direct On Shafts, Drawn Cup Driving wheel bearing (type) Capacity L (pt.) Lubricant GL-5 Gear Lubricant Type recommended

Propeller Shaft - Rear Wheel Drive

		Rear Wheel	Dilve	Saginaw Division
	t tube, tube-ir			Straight Tube W/Internal Damper
internal-exte	rnal damper, e			Not Applicable
Outer	<del></del>	peed transmission		
diam. x length" x	<del></del>	peed transmission		Not Applicable
wall thickness	Manual 5-s	peed transmission	<u>.</u>	63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
• • • • • • • • • • • • • • • • • • • •	Overdrive			Not Available
	Automatic 1	transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
inter- mediate	Type (plain	, anti-friction)		Not Applicable
bearing	Lub. (fittin)	g, prepack)		Not Applicable
	Type			Splined
Slip yoke	Number of	teeth		27
	Spline o.d.			29.84 mm (1.174 in.)
			Front	Saginaw Division
	Make and	mfg. no.	Rear	Saginaw Division
•	Numberus	ed		2
Universal	Type (ball and trunnion, cross)			Cross
joints	Rr. attach(	u-bolt,clamp.etc)		Strap & Bolts
		Type (plain, anti-friction)		Anti-Friction
	Bearing	Lubrication (fitting, prepack)		Prepacked
Drive taken i arms or sprin	through (torqu igs)	e tube,		Propeller Shaft Assembly
Torque taker arms or sprir	n through (toro	que tube,	· -	Torque Arm Assembly

<sup>\*</sup> Centerline to centerline of universal joints, or to centerline of attachment.

<sup>\* 70</sup>mm (2.75 in) Dia. Aluminum Shaft Replaces Base Steel Shaft Where Necessary For Weight Reduction.

<b>MVMA</b>	<b>Specifications</b>
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Vehicle Line	FIRE	BIRD			· · · · · · · · · · · · · · · · · · ·
Model Year	1991	Issued	12-89	Revised(*)	

## METRIC (U.S. Customary)

**Engine Description Engine Code** 

5.0 LITER V8 (305 CID) TUNED PORT INJECTION RPO LB9

Axie R	atio and Tooth Combinations	AUTOMATIC - MD8	MANUAL - M39	MANUAL - MK6
	or overall top gear ratio)	2.73 (1.91)	3.08 (1.94)	3.42 (2.50)
Ring gear o		7.625	7.625	7.625
No. of	Pinion	15	13	12
teeth	Ring pear	41	40	41

escription		Salisbury/Beam Housing	
imited slip di	ited slip differential (type) Cone Clutch		
	Туре	Hypoid	
Orive pinion	Offset	1.50	
vo, of differe	ntial pinions	2	
Pinion/ Adjustment (shim, etc		Shirn	
differential	Bearing adjustment	Shim	
Driving whee	l bearing (type)	Cylindrical Roller Direct On Shafts, Drawn Cup	
	Capacity L (pt.)	1.66	
Lubricant Type recommended		GL-5 Gear Lubricant	

Manufacture Type (straigh	r 1 tube, tube-ir	-tube,		Saginaw Division
nternal-exte	rnal damper, e	tc.)		Straight Tube W/Internal Damper
Duter	Manual 3-s	peed transmission		Not Applicable
iam. x	Manual 4-s	peed transmission		Not Applicable
all nickness	Manual 5-s	peed transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
HCKIIE33	Overdrive			Not Available
	Automatic 1	ransmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
nter-	Type (plain	anti-friction)		Not Applicable
nediate learing	Lub. (fitting	, prepack)		Not Applicable
	Туре			Splined
ilip oke	Number of teeth			
	Spline o.d.			29.84 mm (1.174 in.)
		Make and mfg. no.		Saginaw Division
	Make and			Saginaw Division
	Number used			2
Jniversal	Type (ball and trunnion, cross)			Cross
oints	Rr. attach(	u-bolt,ciamp,etc)		Strap & Bolts
		Type (clain, anti-friction)		Anti-Friction
	Bearing	Bearing Lubrication (fitting, prepack)		Prepacked
Drive taken srms or spri	through (torqu	e tube,		Propeller Shaft Assembly
Torque take	n through (tore	que tube,		Torque Arm Assembly

<sup>\*</sup> Centerline to centerline of universal joints, or to centerline of attachment.

Torque Arm Assembly

<sup>\* 70</sup>mm (2.75 in) Dia, Aluminum Shaft replaces Base Steel Shaft Where Necessary For Weight Reduction.

B.43./B.4	A Specifications	Vehicle Line FIREBIRD				
IVI V IVI	A Specifications	Model Year 1991 Issued 12-89 Revised(*)				
METRIC	C (U.S. Customary)					
Engine D	escription	5.7 LITER V8 (305 CID)				
Engine C	ode	TUNED PORT INJECTION RPO L98				
Axle Ra	atio and Tooth Combination	DIS AUTOMATIC - MD8				
	r overall top gear ratio)	3.23 (2.26)				
Ring gear o.		7.825				
No. of	Pinion	13				
teeth	Ring gear	42				
Rear A		La real de la constanta de la				
Description		Salisbury/Beam Housing				
Limited slip	differential (type)	Cone Clutch				
Drive pinion	Туре	Hypoid				
	Offset	1.50				
<del></del>	rential pinions	2				
Pinion/ differential	Adjustment (shim, etc.)	Shim	<del></del>			
	Bearing adjustment	Shim				
Driving who	ref bearing (type)	Cylindrical Roller Direct On Shafts, Drawn Cup				
Lubricant	Capacity L (pt.)	1.66				
	Type recommended	GL-5 Gear Lubricant				
	·					
Propelli	er Shaft – Rear Wheel Dr	ive				
Manufactur		Saginaw Division				
Type (straig	ht tube, tube-in-tube, ernal damper, etc.)	Straight Tube W/Internal Damper				
	Manual 3-speed transmission	Not Applicable				
Outer diam, x	Manual 4-speed transmission	Not Applicable				
length* x wall	Manual 5-speed transmission	63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)				
thickness	Overdrive	Not Available				
	Automatic transmission	63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)				
Inter-	Type (plain, anti-friction)	Not Applicable				
mediate bearing	Lub. (fitting, prepack)	Not Applicable				
	Type	Splined				
Slip	Number of teeth	27				

* Centerline to centerline of universal joints, or to centerline of attachment.
---

Spine o.d.

Make and mfg. no.

Type (ball and trunnion, cross)

Rr. attach(v-bolt,clamp,etc)

Type (plain, anti-friction)

Lubrication (fitting, prepack)

Number used

Bearing

Drive taken through (torque tube, arms or springs)

Torque taken through (torque tube, arms or springs)

29.84 mm (1.174 in.)

Saginaw Division

Saginaw Division

Front

Rear

2

Cross

Strap & Bolts

Anti-Friction

Prepacked

Propeller Shaft Assembly

Torque Arm Assembly

Universal joints

<sup>\* 70</sup>mm (2.75 in) Dia. Aluminum Shaft Replaces Base Steel Shaft Where Necessary For Weight Reduction.

#### Vehicle Line FIREBIRD **MVMA** Specifications 12-89 Revised(\*) Model Year 1991 issued

METRIC (U.S. Customary) **Body Type And/Or** 

ALL			

Γ

iody Type Ingine Dis			ALL		
- Suspens	lon -	- General Including I	Electronic Controls		
	$\overline{}$	./opt./n.a.	Not Available		
	Manual/automatic control Type (air/hydraulic)		•		
ar		nary/assist spring			
ar Veling	Rea	or only/4 wheel leveling	•		
	Sin	gle/dual rate spring			
	Sin	gle/dual ride heights	•		
	Pro	vision for jacking	Body Pickup At Rocker Panels		
	Std	l./opt./n.a.	Not Applicable		
	Mai	nual/automatic control	19		
	Nur	mber of damping rates	• • • • • • • • • • • • • • • • • • •		
ihock bsorber lamping	Тур	oe of actuation (manual/ ctric motor/air, etc.)	•		
ontrols		Lateral acceleration	Di .		
	n n	Deceleration	п		
		Acceleration	*		
	1	Road surface	Р		
	Туре		Direct, Double-Action, Hydraulic		
Shock (bscrber	Ma	ke	Delco Products		
front & ear)	Pis	ton diameter	32.0mm(1.26in) V6,35.0mm(1.38in)V8,Front/25.0mm(.98in).32.0mm(1.26in)W/WS6Rear		
,	<u> </u>	d diameter	25mm (1.0 in.) Front; 12.5mm (0.5 in.) Rear		
Suspens	ion ·	- Front			
Type and des	cription	n	Independent W/Coil Springs, Modified MacPherson Strut		
	Fu	Il jounce	75.0 mm (2.95 in.) Base; 57.0 mm (2.24 in.) GTA, Formula, Trans-Am		
Travel*	Fu	Il rebound	104.0 mm (4.09 in.)		
	Ту	pe,(coil,leaf,other&matl)	Coil, Steel		
		sulators (type & matl)	Rubber (Top)		
Spring	Siz	te (coil design height	260.0 x 103.0; 2490.0 x 15.0 mm Base		
-		.d.)	(10.2 x 4.06; 98.0 x 0.59 in.)		
	Sp	ring rate N/mm (lb./in.)	64 (345.6) Base, 96 (547.2) Trans-Am, Formula, GTA		
	-	ite @ wheel N/mm (lb./in)	Spring Rate x (2.455)		
	Ту	pe (link,inkless,frmless)	Link		
Stabilizer	М	aterial & bar diameter	STL-30.0mm(1.2 in.) Solid, Base; 34.0mm (1.34 in.), Hollow; Trans Am;(Base);		
Suspen	slon	- Rear	36.0mm (1.4in.) Hollow, W/WS6 Opt.		
Type and de	scriptio	n	Salisbury Axle W/Torque Arm, ICA, Track Bar, Coil Springs		
	Full jounce Full rebound		85.0mm (3.3 in.)		
Trave!*			118.0mm (4.6 in.)		
		/pe(coil,leaf.other&matl)	Coil, Steel		
	Si	ze (length x width, coil ssign height & i.d.)	254.0 x 102.6; 2709.0 x 12.0mm (10.0 x 4.03; 27.9 x 0.472 in.)		
Spring	S	pring rate N/mm (lb/in)	18-25 (159-221) (Variable) Base, 23 (204) Trans-Am, Formula, GTA		
-p.mg	<u> </u>	ate & wheel N/mm (lb/in)	(Spring Rate x 0.96)		

(Spring Rate x 0.96) Rate @ wheel N/mm (lb/in) Insulators(type & material) Rubber Isolated Not Applicable No. of leaves Shackle(comp or tens) Link Type(link,Inkless,frmless) Steel-18.0mm(0.71 in.) Base; 23.0mm(0.91 in.) Trans Am. Formula, GTA Stabilizer Material & bar diameter 'U' Section W/Rubber Bushings Track bar (type)

<sup>\*</sup> Define load condition:

B #1/B#	A 650	olfications		Vehicle Line	FIREBI	RD			
MAM	4 Spe	cifications		Model Year	1991	Issued	12-89	Revised(*)	
METRIC	(U.S. C	customary)							
Body Type And/Or			ALL	<del></del>					
Engine Displacement				ALL					
Brakes -	<u>- Servi</u>	CΘ							
Description				Single Caliper Disc			n Rear,		
Description				Disc Optional Fron	nt/Rear (RPC	) J65)			
Manufacture brake type (s		Front (disc or drum)		Disc	<del></del>		<del></del>		
opt., n.e.)		Rear (disc or drum)		Drum; Disc Optiona					
Valving type	prop,delay,	metering, other)		Remote Metering A	nd Proportion	ing, Front/	Hear Spirt		
Power brake	{std., op1,	n.a.)		Standard					
Booster type	<del>                                     </del>	ac.,hyd.,etc.)		Tandem vacuum					
•		nline, pump, etc.)		Inline					
Vacuum	<del></del>	ir (volume cu. in.)	_	None					
	Pump-ty	<del></del>		None					
Traction Control	<u> </u>	nat speed range							
<del></del>	-	gine intervention		*					
		ar (std., opt., n.a)							
	Manufac			7					
Anti-lock		sctronic, mech.) Sensors or circuits		н			<del></del>		
device		lock hyd. circuits		* .					
	<del></del>	or add-on system		#	<del></del>	-			
	<del>                                     </del>	trof (yes, no)		*					
		c power source		*					
Effective are				615.5 (95.4) total			·····		
		sq. in.)**(F/R)		691.6 (107.2) total					
Sweptareas				1985.1 (307.7) total					
-	1	rking diameter	F/R	F/267.0mm (10.5); R/296.0 mm (11.65 in.)					
		rking diameter	F/R	F/171.5mm (6.75); I	R/211.0 mm (	8.31 in.)			
Rotor	Thickne	is	F/R	F/26.2mm (1.03); R/20.0 mm (0.79 in.)					
	Mati & ty	/pe (vented/sid)	F/R	Cast Iron, Vented F/R					
_	Diamete	r & width	F/R	241.0mm (9.5 in.) x	50.8mm (2.0	in.)			
Drum	Type and	material	F/R	Cast Iron Finned (Aluminum For Selected Applications)					
Wheel cylind	ler bore			F/64.0mm (2.5 in.); R/19.0mm (.75 in.) Drum; 40.5mm (1.6 in.) Disc					
Master cyline	der	Bore/stroke	F/R	Bore: 24.0mm (0.94 in.)					
Pedal arc rat	0			3.25:1					
Line pressur- load kPa (psi		00 (b.) peda!	_						
Lining clears	nce		F/A	Self-Adjusting F/R					
	Ì	Bonded or riveted		Riveted (8)					
		Rivet size		5.33 x 7.92mm (0.2	10 x 0.312 in.	)			
		Manufacturer		Bendix					
	Front	Lining code		7161A					
	wheel	Material		Semi-Metallic					
		Pri.or out-brd		125.0 x 48.4 x 11.04					
		Size Sec. or in-brd		125.0 x 48.4 x 10.55	<u>-</u>				
Brake		Shoe thaknes (no ing)		OB/3,42mm (0.135	_		1.)		
lining		Bonded or riveted		Riveted 10 Primary,	Secondary (	Drum)		Molded (Disc)	
		Manufacturer		Inland (Drum)				JBI (Disc)	
	Rear	Lining code		IN 4035/4050				HB33	
	write:	Material		Organic		<u>-</u>		Semi-Metallic	
		Pri. or out- brd						4mm(4.92x1.91x0.435 in.)	
	1	Size Sec. or in-bro	,					5mm(4.92x1.91x0.435 in.)	
	İ	Shoe thoknes (no ing)		Drum F/R 1.98mm (	(.078 in.), dise	OB/4.0mn	n(0.16 in.); l	B/5.5mm (0.21 in.)	

<sup>\*</sup> Excudes 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 xits contact circum.) (Disc brake: Square of Outer Working Dia. - Square of inner Working Dia. X Pi/2 for each brake.) \*\*\*\*Size for drum brakes includes length x width x thickness. \*\*\*\*\*Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

FIRERIRD

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

Vehicle Line	FIRE	BIRD			
Model Year	1991	lasued	12-89	_Revised(*)	

HEAVY DUTY (OPTIONAL RPO 1LE)

Brakes -	Service	3						
Description	_				Front & Rear Disc Brakes			
Manufacturer and brake type (std., opt., n.e.)  Front (disc or drum)  Rear (disc or drum)			Disc					
			Disc					
Valving type(pro	p,delay,m	etering,o	ther)		Remote Proportioning, Front/Rear Split			
Power brake (st	id., opt., n.	a.}			Standard			
Booster type(rr	nt,int <u>prl,va</u>	c.,hyd.,e	lc.)		200mm (7.87 in.) Tandem Vacuum			
	Source (in	line, pum	o, etc.)		Inline			
Vacuum	Reservoir (volume cu. in.)				Not Applicable			
	Pump-typ				1			
Traction								
Control	Type engi	ne interve	ntion					
	Front/rea	r (std., op	t., n.a)		•			
	Manufact	urer			R .			
	Type (ele	ctranic, m	ech.)		*			
Anti-lock	Numbers	ensors ar	circuits		H			
device	No. anti-	lock hyd.	circuits		F			
	integral o	radd-on	system		N .			
	Yaw cont	rol (yes, n	0)		*			
	Hydraulii	powers	ource		н			
Effective area	sq. cm. (sq	. in.)*			717 (111.1)			
Gross Lng area	sq. cm. (s	q. in.)**(F.	/R)		792 (122.9)			
Swept area sq	. cm. (sq. ir	1.)***(F/A)			2980.74 (462.02)			
	Outer working diameter F/R			F/R	F 301.25mm (11.86 in.) R 296.0mm (11.65 in.)			
	inner wo	rking dian	neter	F/R	F 197.40mm (7.77 in.) R 211.0mm (8.31 in.)			
Rotor	Thickness F/R			F/R	F 26.20mm (1.03 in.) R 20.0mm (0.79 in.)			
	Mati & type (vented/sld) F/R			F/R	Cast Iron, Vented			
	Diamete	r & width		F/R	Not Applicable			
Drum	Type and	material		F/R	m			
Wheel cylinde	r bore				F 2 x 38mm (1.50 in.) R 40.5mm (1.69 in.)			
Master cylind		Bore	/stroke	F/A	24.0mm (0.94 in.)			
Pedal arc ratio	)				3.25:1			
Line pressure load kPa (psi)	at 445 N (1	00 lb.) pe	dat					
Lining clearan				F/R	Self-Adjusting			
Entire Crosses	Ţ	Bonder	priveted		Integrally Molded			
	İ	Rivets			Not Available			
	1	Manufa	cturer		Japan Brake Industries			
ė	Front		ode		CP26			
	wheel	Materia			Semi-Metallic			
		****	Pri.or aut-brd	_	53.2 sq.cm. x 9.5mm (8.25 sq.in. x .37 in.) Area x Thickness			
		Size	Sec. or in-brd		52.2 sq.cm. x 9.5mm (8.25 sq.in. x .37 in.) Area x Thickness			
Brake			hcknss.(no ing)		IB/6.0mm (.24 in.) OB 6.0mm (.24 in.)			
lining	<u> </u>	+	d or riveted		Integrally Molded			
	1	Manuf			Japan Brake Industries			
	Rear		code		HB33			
	wheet	Materi			Semi-Metallic			
			Pri. or out-bid		28.4 sq.cm. x 8.2mm (4.4 sq.in. x .32 in.) Area x Thickness			
		Size	Sec. or in-b-d		28.4 sq.cm. x 8.2mm (4.4 sq.in. x .32 in.) Area x Thickness			
			hckass (no ing)		IB 5.5mm (.21 in.) OB 4.0mm (.16 in.)			
	<u> </u>	1 011081						

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<sup>\*</sup> 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 circum.)
(Disc brake: Square of Outer Working Dia. - Square of inner Working Dia. X Pi/2 for each brake.)
\*\*\*\*Size for drum brakes includes length x width x thickness.
\*\*\*\*Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

MVMA S	ecification	S
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Vehicle Line	FIRE	FIREBIRD			 
Model Year	1991	issued	12-89	Revised(*)	

METRIC (U.S. Customary)

Body Type And/Or	<u> </u>		TRANS AM LO3	
Engine Displacement	BASE	FORMULA	Y99 W/LB8	GTA

Tires An	nd Wheels (S	tandard)		. **		<u> </u>
	Size (load rang		215/65R15	245/50ZR16	215/65R15	245/50ZR16
	Type (bias, rac	lial, etc.)	Steel Belted Radi	ai		
ires	Inflation pres- sure (cold) for	, ,	207 (30)			
	recommended max. vehicle load	Rear kPa (psi)	207 (30)			
	Rev/mile-at 7	0 km/h(45mph)	498	505	498	505
· · · · · · · · · · · · · · · · · · ·	Type & materi	al .	Cast Aluminum	Cast Aluminum	Cast Aluminum	Cast Aluminum
	Rim (size & fla	nge type)	15 x 7 JJ	16 x 8 JJ	15 x7 JJ	16" x 8" JJ
	Wheeloffset		8mm	0mm F/16mmR	8mm	0mm F/16mmR
/heels		Type(bolt,stud)	Stud			
	Attachment	Circle diameter	120.7mm (4.75 in	.)		
	i	Number & size	5-M12 x 1.5 - 6	H- thd (Metric)		
Spare	Tire and wheel	· · ·	T125/70D15, 15	x 4 (Except With G8	0 Axle)	
	Storage positi location (desc		Vertically, Adjacer	nt To RH Quarter Pan	el	

Tires And Wheels (Optional)

Tire size (load range, ply)	P245/50ZR16 * +			
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial			
Wheel (type & material)	Cast Aluminum			
Rim (size, flange type and offset)	16" x 8", Front: 0, Rear: 16			
Tire size (load range, ply)				
Type (bias, radial, steet, nylon, etc.)				
Wheel (type & material)				
Rim (size, flange type and offset)				
Tire size (load range, ply)				
Type (bias, radial, steel, nylon, etc.)				
Wheel (type & material)				
Rim (size, flange type and offset)				
Tire size (load range, ply)				
Type (bias, radial, steel, nylon, etc.)				
Wheel (type & material)				
Rim (size, flange type and offset)				
Spare tire and wheel size	14x5; P195/75D14 (Inflatable) Used With G80 Axle And 15 in. Road Tire.			
(if configuration is different than road tirs or wheel, describe optional spare tire and/or wheel location & storage position)	15x5; P195/75D15 (Inflatable) Used With 16 in. Road Tire.			

Brakes - Parking

Type of contro	t	Hand Lever Application - Push Button Reverse - Self-Adjusting
Location of co	ntrol	Between Front Seats
Operates on		Rear Service Brakes
If separate from service brakes	Type(internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

<sup>\*</sup> Directional Tread

<sup>+</sup> Non - "All Seasons" Tire

Vehicle Line	FIREBIRD				 
Model Year	1991	Issued	12-89	Revised(*)	 

## METRIC (U.S. Customary)

Body Type And/Or **Engine Displacement** 

ALL		
ALL		 

lanual (std.	. opt., n.a.)			Not Available		<del></del>
ower (std.,				Standard		
Adjustable steering wheel/ column (tilt, telescope, other)		Type Manufacturer		Tilt, 5 Position		
				Saginaw Division		
		(std., opt., n.a.)		Standard		
Wheel diameter ** W9) SAE J1100		Manual		Not Available		
		Power		368.0mm (14.5 in.) Rim	368,0mm (14.5 in.) Rim	
	Out-	Wall to w	/all (l. & r.)	12.59 (41.3)		
'υτ <del>αί</del> α <b>ο</b>	aide front	Curb to a	curb (l. & r.)	11.73 (38.5)	12.28 (40.3)	
liameter n (ft.)	In-	Wall to w	vall (l. & r.)	Not Available		
m (i t-)	side rear	Curb to curb (I. & r.'		H		
Scrub Radis		<u> </u>		7		
	Ϊ	Type		**		
		Manufac	turer	*		
Manual	Gear		Gea <sup>r</sup>			
*1001	1		Overa	H		
	No. wh	No. wheel turns(stop to stop		H		·
	<del></del>	paxial, elec.		Hydraulic		
	Manufa			Saginaw Division		
	1,7,0,7,1	Туре		Recirculating Ball		
Power	Gear	<u> </u>	Gear	14:1 (a)	12.7:1 (b)	12.7:1 (c)
FOWE.	1	Ratios	Overa	15.4:1	14:1	14:1
	Pump (	Pump (drive)		Belt		
			top to stor:	2.57	2.14	2.14
	Туре			Parallelogram		
Linkage	Locatio	Location (front or rear of wheels, other)		Front		
	Tie Bo	ds (one or t	wo)	2		
		tion at cam		Not Available		<u> </u>
Steering	11.0	Upper		Ball stud		
9xi2 9feeting	Bear- ings	Lowe	<del></del>	Ball stud		
	(type)			None		·
Thrust Steering spindle/knuckle & joint type				Steering Knuckle W/Sph	erical Joints	

<sup>\*</sup>The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

\*See Page 22.

- (a) Base.
- (b) RPO F41 (Trans Am)
- (c) RPO FE2 (Formula)

o MVMA Specifications			Vehicle Line		BIRD	<del></del>		
METRIC (	•		Model Year	1991	issued	12-89	Revised(*)	
•		oniary)			<u></u>			
Body Type A			ALL					
Engine Dispi								
Wheel Allo	nment	<b>,</b>						
	Service checking	Caster (deg.)	+5.0 (L/R Side To E	Se Equal W	ithin 0.7)			
		Camber (deg.)	0.3 (+/-) .5				<del></del>	·
Front		Toe+m outside track - mm (in.)	0 (+/-) .2					
wheelat curb mass	Service	Caster (deg.)	+5.0 (+/-) .5 (L/R S	ide To Be I	qual With 0.7	"	<u> </u>	
(wL)	reset*	Camber (deg.)	.3 (+/-) 5	·· ·				<del></del>
		Toe-m - mm(in.)	0 (+/-) .2 +5.0 (+/-) .5					
•	Periodic M,V, in-	Caster (deg.) Camber (deg.)	0.3 (+/-) .5				·· · · · · · · · · · · · · · · · · ·	
	spection	Toe-in - mm(in.)	0 (+/-) .2	· · ·	<u></u>	<del></del>		
		Camber (deg.)	Not Applicable			···		
Rear wheelat	Service checking	Toe-in outside track - mm (in.)						
curb mass (wt.)	Service reset*	Camber (deg.)	•			*		
()	<u> </u>	Toe-in - mm(in.)	*					
	Periodic M.V. in-	Camber (deg.)	n .			<u></u>		
1 la disease and a	spection	Toenin - mm(in.)	<u> </u>				· · · · · · · · · · · · · · · · · · ·	<del></del>
		trend set or other.	_					
o Electrical	~~~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	ents and Equipr	<u>nent</u>		<del></del>	<del> </del>	·	
Speed-	Type (analog, digital, std., opt.)				_			
ometer	Trip odomet	er (std., opt.,						
	Std., opt., n	ot avait.						
	Type - Secondary, Opto-electronic		:					
Head-up display	Speedometer Digital							
	Status/warn, indicators = Turn signals, high beam, low fuel, check gauges				·			
	Brightness	Day/night						<del>.</del>
ECR	control	mode, adj.	<u> </u>				<del>.</del>	<del></del>
EGR maintenanc	Type		<del> </del>		<u>-</u>			
Charge indicator	Warning device (light					<del></del>		
<del></del>	audible)		<del> </del>					
Temperature indicator	Type Warning dev	ice	<del> </del>	<del></del>				
Oil	Туре			••	<del></del>			
pressure indicator	Warning dev	rice					· · · · · · · · · · · · · · · · · · ·	
Fuel indicator	Type							
	Warning dev	rice						
	Type (standa							
Wind- shield wiper	Type (option Blade length							<del></del>
	Swept area							<del></del>
	Type (standa							<del></del>
Wind- shield washer	Type (option	al)						
	Fluid level in	dicator						
Rear window wip (std., opt., n.a.)	oer, wiper/was	her 		<del></del>				
Hore	Туре					<del></del> -		
	Numberuse	<u>d</u>	<del> </del>		<del></del>	<del></del> -		
Other								

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Vehicle Line	FIREBIRD				
Model Year	1991	Issued	12-89	Revised(*)	

#### **METRIC (U.S. Customary)**

**Engine Description** Engine Code

3.1 LITER V6 (191 CID) MULTI-PORT FUEL INJECTION RPO LHO

Flectrical - Supply System

Battery	Manufacturer	Delco Remy		
	Model, std., (opt.)	75-525		
	Voltage	12		
	Amps at 0 deg F cold crnk	525		
·	Minutes-reserve capacity	90		
	Amps/hrs 20 hr. rate	4.0		
	Location	Engine Compartment Left Front		
	Manufacturer	Delco Remy		
	Rating(idle/max rpm drive)	.100 Amps (36 Amp At Idle)		
Atternator	Ratio (alt. crank/rev.)	2.75:1		
	Output at idle (rpm, park)			
	Optional (type & rating)	None		
Regulator	Type	Micro Circuit Units, Integral With Alternator		

Flectrical - Starting System

<u> </u>	- Oranning Cyclem		
Motor .	Manufacturer	Delco Remy	
	Curr.dr29 (20) deg C(F)	325	
	Power rating kw (hp)	1.4 (1.9)	
	Engagement type	Positive Shift Solenoid	
Motor drive	Pinion engages from (front, rear)	Rear	

Electrical - Ignition System

	Electronic (std, opt,n.a.)		Standard	
Type	Other (specify)		High Energy Ignition	
· 1	Manufacturer		Deico Remy	
	Model		Separate	
Corl		Engine stopped-A	0	
	Current	Engine idling - A	5.5 max.	
	Manufacturer		AC/Rochester Products	
	Model		R43TS	
	Thread (mm)		14 x 1.25	
Spark plug	Tightening torque Newton meters (lb. ft.)		9-20 (7-15)	<u>.</u>
	Gap		1.14mm (.045 in.)	
	Number per cylinder		1	
	Manufacturer		Delco Remy	
Distributor	Model		10455016	

Electrical - Suppression

Internal Alternator Capacitor, Non-Metallic High-Tension Ignition Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Locations & type Engine To Dash Panel Ground Strap, And On "Heater Only" Blower Motors And Coax Capacitor.

Vehicle Line	FIREBIRD				 
Model Year	1991	Issued	12-89	Revised(*)	 

**METRIC (U.S. Customary)** 

Engine	Description
Engine	Code

5.0 LITER V8 (305 CID)
ELECTRONIC FUEL INJECTION RPO LO3

	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525 (Man.) 75-570 (Auto.)
	Voltage	12
Battery	Amps at 0 dag F cold crnk	525
	Minutes-reserve capacity	90
	Amps/hrs 20 hr. rate	••
	Location	Engine Compartment
	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	100 Amps (36 Amp At Idle)
Alternator	Ratio (alt. crank/rev.)	3.0:1
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Requiator	Type	Micro Circuit Units. Integral With Alternator

Туре	Electronic (s1d, opt.n.a.)			
	Other (specify)		High Energy Ignition, (H.E.I.)	
	Manufacturer		Delco Remy	
_	Model		Separate	
Coil		Engine stopped-A	0	
	Current	Engine idling ~ A	1	
	Manufacturer		AC	
	Model		R45TS	
	Thread (mm)		14 x 1.25	
Spark plug	Tightening torque Newton meters (lb. ft.)		9-20 (7-15)	•
	Gap		0.89 (0.035)	
	Number per cylinder		1	
	Manufacti	lr <b>e</b> r	Delco Remy	
Distributor	Model		1103460	

Electrical – Suppression

Internal Alternator Capacitor, Non-Metallic High-Tension Ignition Cables,
Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower
Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions;
Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block
Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.

FIREBIRD Vehicle Line 12-89 Revised(\*) Issued Model Year

METRIC (U.S. Customary)

Engine	Description
Engine	Code

5.0 LITER V8 (305 CID) TUNED PORT FUEL INJECTION RPO LB9

Flectrical	- Supply System	
	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525 (Man.) 75-570 (Auto.)
	Voltage	12
Battery	Amps at 0 deg F cold crnk	525 (a), 570 (b)
. •	Minutes-reserve capacity	75 (a), 90 (b)
	Amps/hrs 20 hr. rate	
	Location	Engine Compartment Right Front
	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps (42 Amps At Idle)
Alternator	Ratio (alt. crank/rev.)	3,14;1
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Туре	Micro Circuit Units, Integral With Alternator

Electrical - Starting System

	Manufacturer	Delco Remy
Motor	Curr.dr29 (-20) deg C(F)	305
	Power rating kw (hp)	1.9 (2.5)
	Engagement type	Positive Shift Solenoid
Motor drive	Pinion engages from (front, rear)	Rear

Electrical - Ignition System

Туре	Electronic (std. opt.n.a.)		<u></u>	
	Other (specify)		High Energy Ignition, (H.E.I.)	
	Manufacturer		Delco Remy	
	Mode!		Remote Mounted	
Coil		Engine stopped-A	0.5	
	Current	Engine idling - A	1.0	
	Manufacturer		AC	
	Model		R45TS	
	Thread (mm)		M14 x 1.25 SAE	
Spark plug	Tightening torque Newton maters (lb. ft.)		9-20 (7-15)	
	Gap		0.89 (0.035")	
	Number per cylinder		1	
Distributor	Manufact		Delco Remy	
	Model		1103698	

Electrical - Suppression

Internal Alternator Capacitor, Non-Metallic High-Tension Ignition Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Locations & type Engine To Dash Panel Ground Strap, Fuse Block Capacitor And On "heater only" blower motors and coax capacitor.

Vehicle Line	FIREBIRD		<u></u>			
Model Year	1991	Issued	12-89	Revised(*)		

## METRIC (U.S. Customary)

Engine	Description
Engine	Code

5.7 LITER V8 (350 CID)
TUNED PORT FUEL INJECTION RPO L98

Electrical	Manufacturer	Delco Remy
	Model, std., (opt.)	75 - 630
	Voltage	12
Battery	Amps at 0 deg F cold crnk	630
	Minutes-reserve capacity	90
	Amps/hrs 20 hr. rate	
	Location	Engine Compartment Right Front
	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps (42 Amps At idle)
Alternator	Ratio (alt. crank/rev.)	3,14:1
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Туре	Micro Circuit Units, Integral With Alternator

Electrical - Starting System

<u> </u>	Manufacturer	Delco Remy	
Motor	Curr.dr29 (-20) deg C(F)	305	
	Power rating kw (hp)	2.3 (3.1)	
	Engagement type	Positive Shift Solenoid	
Motor drive	Pinion engages from (front, rear)	Rear	

Electrical - Ignition System

_	Electronic (std. opt,n.a.)		
Type	Other (specify)		High Energy Ignition, (H.E.I.)
	Manufacturer		Delco Remy
	Model		Remote Mounted
Coil	_	Engine stopped-A	0.5
	Current	Engine idling ~ A	1.0
	Manufacti	ırer	AC .
	Model		R45TS
	Thread (m	m)	M14 x 1.25 SAE
Spark plug	Tightening torque Newton meters (Ib. ft.)		9-20 (7-15)
	Gap		0.89 (0.035")
	Number per cylinder		1
	Manufacti	urer	Delco Remy
Distributor	Model		1103698

Electrical - Suppression

	Internal Alternator Capacitor, Non-Metallic High-Tension Ignition Cables,	
	Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower	
Locations & type	Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions;	
	Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block	
	Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.	

Vehicle Line FIREBIRD

Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

офу Турч			1		
	уре		ALL		
Body					
tructure	-		Full Unitized Steel Construction. Cowl, Roof, Underbody And Body Panels Welded To Form Body Shell. Bolt-In-Front Suspension Crossmember. Doors, Roof, Hood And Hatch Lid Double Panel Construction.		
sumper System ront - Rear			Body Color Soft Fascia, Honeycomb Absorber And Heavy Gauge Reinforcement Used Front And Rear.		
Inti-Corre	osion Treatment		Galvanized Metals, Zinc Rich Primers, Wax Coating And Other Corrosion Resistant Materials Used Throughout.		
Body –	Miscellaneous I	nformation			
	sh (lacquer, enamel, other)		High Solids Acrylic Enamel Base Coat/Clear Coat		
ype of fini	Material & mass		T		
ype of fini	Material & mass		Steel		
	Hinge location (front, re	ar)	Rear		
	Hinge location (front, re Type (counterbalance, p	ear) prop)	Rear Gas Strut Assist		
	Hinge location (front, re Type (counterbalance, p Release control (int., ex	ear) prop)	Rear Gas Strut Assist Internal		
lood	Hinge location (front, re Type (counterbalance, s Release control (int., ex Material & mass	ear) prop)	Rear Gas Strut Assist		
runk	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, c	orop) 1.)	Rear Gas Strut Assist internal Not Applicable		
runk	Hinge location (front, re Type (counterbalance, s Release control (int., ex Material & mass	orop) 1.)	Rear Gas Strut Assist internal Not Applicable		
runk	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, c Internal release control	orop) 1.)	Rear Gas Strut Assist Internal Not Applicable		
food frunk id	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, c Internal release control (elec., mech., n.s.)	orop) 1.)	Rear Gas Strut Assist Internal Not Applicable		
runk d	Hinge location (front, re Type (counterbalance, p. Release control (int., ex. Material & mass Type (counterbalance, c. Internal release control (elec., mech., n.a.) Material & mass	orop) 1.) other)	Rear Gas Strut Assist Internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard		
runk d	Hinge location (front, re Type (counterbalance, p. Release control (int., ex. Material & mass Type (counterbalance, c. Internal release control (elect., mech., n.a.) Material & mass Type (counterbalance, c. Internal release control elect., mech., n.a.)	orop) 1.) other)	Rear Gas Strut Assist Internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional		
runk d	Hinge location (front, re Type (counterbalance, p. Release control (int., ex. Material & mass Type (counterbalance, c. Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, c. Internal release control elec., mech., n.a.)	orop) 1.) other)	Rear Gas Strut Assist Internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard		
runk d	Hinge location (front, re Type (counterbalance, p. Release control (int., ex. Material & mass Type (counterbalance, c. Internal release control (elect., mech., n.a.) Material & mass Type (counterbalance, c. Internal release control elect., mech., n.a.)	orop) 1.) other)	Rear Gas Strut Assist Internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable		
ood runk d latch- ack lid	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, c Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, c Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)	orop) 1.) other)	Rear Gas Strut Assist internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable "		
runk d tatch- ack lid	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, c Internal release control (elec., mech., n.a.) Material & mass Type (counterbalance, c Internal release control elec., mech., n.a.) Material & mass Type (drop, lift, door) Internal release control	orop) 1.) other)	Rear Gas Strut Assist Internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " "		
ood  runk d  latch- ack lid  ent windriction, pir	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, c Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, c Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)  ow control (crank, vot, power)	prop) 1.)  other)  Front	Rear Gas Strut Assist Internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " " Not Available		
runk d  tatch- ack lid  ailgate  /ant wind; riction, piv	Hinge location (front, re Type (counterbalance, p. Release control (int., ex. Material & mass Type (counterbalance, c. Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, c. Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)	prop) 1.)  piher)  Front Rear	Rear Gas Strut Assist internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " " Not Available "		
runk d  Hatch- pack lid  Failgate  Vent wind; riction, pir  Window recable, tap	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, o Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, o Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)	Front Rear Front	Rear Gas Strut Assist internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " Not Available  " Sector Drive		
runk d tatch- ack lid friction, pi Mindow recable, tap	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, o Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, o Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)  ow control (crank, vot, power)  could tor type e, flex drive, ion type 0, bucket, bench	Front Rear Front Rear	Rear Gas Strut Assist internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " Not Available  " Sector Drive Sector Drive		
runk d  tatch- ack lid  failgate  Vent windor riction, pir  Window re (cable, tap	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, o Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, o Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)  ow control (crank, vot, power)  could tor type e, flex drive, ion type 0, bucket, bench	Front Rear Front Front Front	Rear Gas Strut Assist internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " " Not Available " Sector Drive Sector Drive Bucket Molded Foam Pad " "		
Frunk id  Hatch- back lid  Vent wind friction, piv  Window re (cable, tap etc.)  Seat cush (e.g., 60/4) wire, foam	Hinge location (front, re Type (counterbalance, p. Release control (int., ex. Material & mass Type (counterbalance, c. Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, c. Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)  ow control (crank, vot, power)  coulator type e, flex drive, ion type 0, bucket, bench i, etc.)	Front Rear Front Rear Front Rear	Rear Gas Strut Assist internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " Not Available  " Sector Drive Sector Drive Bucket Molded Foam Pad  " Reclining Bucket Molded Foam Pad		
Frunk id  Hatch- back lid  Vent windt friction, pir  Window re (cable, tap etc.)  Seat cush (e.g., 50/4 wire, foam  Seat back (e.g., 50/4	Hinge location (front, re Type (counterbalance, p Release control (int., ex Material & mass Type (counterbalance, o Internal release control (elec., mech., n.a.)  Material & mass Type (counterbalance, o Internal release control elec., mech., n.a.)  Material & mass Type (drop, lift, door) Internal release control (elec., mech., n.a.)  ow control (crank, vot, power)  regulator type e, flex drive, floor type O, bucket, bench I type	Front Rear Front Rear Front Rear Front Rear Front Rear Front Rear Front Rear	Rear Gas Strut Assist internal Not Applicable  " Glass/Steel Dual Gas Struts-Electric Final Closure Standard  Electric Release Optional Not Applicable  " " Not Available " Sector Drive Sector Drive Bucket Molded Foam Pad " "		

 Vehicle Line
 FIREBIRD

 Model Year
 1991
 Issued
 12-89
 Revised(\*)

METRIC (U.S. Customary)

<b>Rock</b>	Туре
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ALL

Restrain	t System						
Seating Positi	ion		Left	Center	Right -		
	Type & description (lap & shoulder belt, lap belt,	First seat	Lap & Shoulder Belt		Lap & Shoulder Belt		
Active	etc.)	Second seat	Lap & Shoulder Belt		Lap & Shoulder Belt		
	Standard/ optional	Third seat					
	Type & description (air bag, motorized-	First					
Passive	2-point belt, fixed belt, knee bolster, manual- lap belt)	Second seat					
	Standard/ optional	Third seat					
Glass		SAE Ref No					
Windshield g surface area: in.)		\$1	9000.4 (1395.0)				
Side glass ex area sq. cm. ( total 2- sides	posed surface sq. in.) -	\$2	6519.8 (1010.6)				
Backlight gla surface area: (sq. in.)		<b>S</b> 3	6232.0 (966.0)				
Total glass er area sq. cm. (	rposed surface sq. in.)	54	21752.2 (3371.6)				
Windshield g	iass (type)		Curved-Laminated Plate				
Side glass (ty	rpe)		Curved-Tempered Plate				
Backlight gla	ss (type)		Curved-Tempered Plate				
Headlan	nps						
Description -	sealed beam, laceable bulb, etc.		Sealed Beam - Two Lamp System				
Shape			Rectangular				
Lo-beam type (2A1, 2B1, 2C1, etc.)		_	28				
Quantity		2					
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)		(2B)					
Quantity		(2)					
Frame			<b>.</b>		· · · · · · · · · · · · · · · · · · ·		
Type and description (separate frame, unitized frame, partially-unitized frame)		Full Integral Body Frame, Includ Front Suspension Crossmember					

Vehicle Line	FIRE	BIRD			
Model Year	1991	Issued	12-89	Revised(*)	

## METRIC (U.S. Customary)

Body	Туре
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	 	 _	
ALL			
ALL			

ir conditionin uto, temp cor	g (manual, troî)	Manual Controls Std Trans Am, Formula, GTA - Optional, Sport Coupe
lock (digital,	ension)	Digital, In Radio
ompass / the		Not Available
onsole (floor		Full Length Front Console - Standard Floor; Overhead Not Available
efroster, ele	· · · · · · · · · · · · · · · · · · ·	Electric - Standard GTA; Optional Others
	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (LST instruments)	Tachometer, Speedometer, Trip Odometer, Fuel, Oil Pressure*, Temp, Volt, Seat Belt Warning, Engine Warning, Inflatable Restraint Warning
	Keyless entry	Not Available
Electronic	Tripminder (avg. spd. fuel)	
	Voice alert (list items)	P
1	Other	h
uel door loc	k (remote, kéy, electric)	Not Available
-	Auto head on/off delay, c.mming	•
	Cornering	,
	Courtesy (map, reading)	Standard (Under Dash); Dual Lighted Mirror Standard GTA, Opt. Others
	Door tock, ignition	Not Available
	Engine compartment	h
amps	Fog	Standard Trans AM & GTA; Not Available Base Or Formula
	Glove compartment	Standard (Compartment In Floor Console)
	Trunk	(Rear Compartment) Standard GTA
	Illuminated entry system (ist lamps, activation)	Not Applicable
	Other	
	Day / night (auto, man.)	Standard - Manual
	L.H. (remote, pwr., heated)	Remote Standard, Power Standard GTA; Optional, Others - Not Heated
lirrors	R.H.(convex, rmt, pwr, htd)	Manual - Std., Power Standard GTA; Opt. Others; Both Convex - Not Heated
	Visor vanity (RH/LH illum.)	RH - Optional (Non-Illuminated)
lavigation s	ystem (describe)	Not Available
		Hand Release, Warning Light Standard

Radio Options

\* Full Gauge Package Standard

Vehicle Line	FIRE	BIRD			
Model Year	1991	lasued	12-89	Revised(*)	

# METRIC (U.S. Customary)

Engine Description
Engine Code

<del></del>	<del></del>	 		 -
ALL				

Deck lid(release, puti down)		(release, puti down)	Power Door Locks And Hatch Rel. Std. GTA Opt. Others ***				
	Door loc	ks (manual, auto.,	Manual - Standard				
		system)	Electric - Optional				
		2 - 4 - 6 way, etc.	Manual 4-Way Ultima Seat Driver GTA, Standard; Opt. Others				
		Reclining(R.H., L.H.)	Driver/Passenger - Standard				
		Memory (R.H., L.H., preset, recline)	Not Avaiable				
ower quipment	Seats	Support (lumbar, hip, thigh, etc.)	•				
		Heated (R.H., L.H., other)	•				
	Side win	dows	Standard GTA, Optional All Others				
	Vent wir		Not Available				
	Rear wir	<del></del>					
		(location, whip, d, power)	R. F. Fender Fixed Mast W/Radio, Pow. Std. GTA; Opt. Others				
Stan.	Stan.		Electronically Tuned AM/FM Stereo Radio w/ Seek-Scan, Cassette W/Auto Reverse and Digital Clock w/ Extended Range Sound System.				
ladio ystems	Opt.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	Electronically Tuned AM/FM Stereo Radio W/ Seek-Scan, Stereo Cassette Tape W/Search and Repéat, 5 Band Equalizer, and Digital Clock W/Extended Range Sound System (Standard for GTA). Electronically Tuned AM/FM Stereo Radio W/Seek-Scan, Compact Disc Player, 5 Band Equalizer, and Digital Clock W/Extended Range Sound System.				
	Speake	r (number, location)	6.2 in. I>P>, 2 in Sail Panel, 2 Subwoofers In Sail Panel				
loof: open a liding, T)	r of fixed (	flip-up,	Hatch Roof W/Removable Acrylic Panels - Optional				
peed contro	I device		Cruise Control With Resume Speed - Std GTA; Opt. Others				
peed warn.	dev. (light,	buzzer, etc.)	Not Available				
achometer			Standard				
elephone sy	stem (des	cribe)	Not Available				
	nt system		Lock Mounted On Steering Column - Locks Steering Wheel, Transmission				

o Trailer Towing

TIEROT TOTTING		
Towing capable	Yes / No	
Engine/transmission/axle	Std / Opt	
Tow class (I, II, III)*	Std / Opt	
Max. gross trailer wgt. (lbs.)	Std / Opt	-
Max, trailer tongue load (lbs.)	Std / Opt	
Towing package available	Yes / No	

<sup>\*</sup> Class I = 2,000 lbs. Class II = 3,500 lbs. Class III = 5,000 lbs.

<sup>\*\*\*</sup> Power Final Hatch Closure Latch Standard - ALL

 Vehicle Line
 FIREBIRD

 Model Year
 1991
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 4-90

**METRIC (U.S. Customary)** 

Vehicle 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 vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 'Motor Vehicle Dimensions,' unless otherwise specified.

Body Type	2FS87	2FW87	

Width	SAE Ref. N	Yo
Tread (front)	W101	1541 (60.7)
Tread (rear)	W102	1564 (61.6)
Vehicle width	W103	1838 (72.4)
Body width at Sg RP (front)	W117	1830 (72.0)
Vehicle width (front doors open)	W120	3939 (155.1)
Vehicle width (rear doors open)	Wi21_	
Tumble-home (deg.)	W122	31.5
Outside mirror width	W410	1839 (72.4)

Length			
Wheelbase	L101	2566 (101.0)	
Vehicle length	L103	4956 (195.1)	4959 (195.2)
Overhang (front)	L 104	1234 (48.6)	1237 (48.7)
Overhang (rear)	L105	1156 (45.5)	
Upper structure length	L123	2669 (105.1)	
Rear wheel C/L 'X' coordinate	L127	4138 (163.0)	

Height **			
Passenger distribution (front/rear)	PD1,2,3	2 - 2	**
Trunk/cargo load			**
Vehicle height	H101	1263 (49.7)	1257 (49.5)
Cow! point to ground	H114	887 (34.9)	
Deck point to ground	H138	912 (35.9)	
Rocker panel-front to ground	H112	184 (7.2)	180 (7.1)
Rocker panel-rear to ground	H111	187 (7.4)	180 (7.1)
Windshield slope angle (deg.)	H122	62.0	
Backlight slope angle (deg.)	H121	71.0	

Front bumper to ground	H102	273 (10.7)
Rear bumper to ground	H104	359 (14.1)
Bumper to ground front at curb mass (wt.)	H103	304 (12.0)
Bumper to ground rear at curb mass (wt.)	H105	378 (14.9)
Angle of approach (deg.)	H106	15.7
Angle of departure (deg.)	H107	15.6
Ramp breakover angle (deg.)	H147	10.7
Axle differential to ground (front/rear)	H153	305 (12.0)
Min, running ground clearance	H156	115 (4.5)
Location of min. run. grd. clear.		Front Crossmember

<sup>\*\*</sup> All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.

EPA Loaded Vehicle Weight is the Base Vehicle Weight Plus All Coolant and Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Founds On More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

All linear dimensions are in millimeters (inches)

FIREBIRD Vehicle Line Revised(\*) Model Year Issued 12-89 4-90

**METRIC (U.S. Customary)** 

Vehicle Dimensions

See Key Sheets for Definitions

Body	Type
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- [	2FS87				2FW87			
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Front Compartment	SAE Ref.	No.		
SgRP front, "X" coordinate	L31	3050 (124.0)		
Effective head room	H61	940 (37.0)		
Max. eff. leg room (accelerator)	L34	1092 (43.0)		
SgRP to heel point	H30	181 (7.1)		
SgRP to heel point	L53	911 (35.9)		
Back angle (deg.)	L40	26.5		<del></del>
Hip angle (deg.)	L42	98.0		
Knee angle (deg.)	L44	133.0		,
Foot angle (deg.)	L48	87.0		
Design H-point front travel	L17	192 (7.6)	•	
Normal driving & riding seat track trvl.	L23	171 (6.7)		
Shoulder room	W3	1452 (57.2)		
Hip room	<b>W</b> 5	1413 (55.6)		
Upper body opening to ground	H50	1169 (46.0)	1174 (46.2)	
Steering wheel maximum diameter*	W9	370 (14.6)		
Steering wheel angle (deg.)	H18	18.0		
Accel, heel pt. to steer, whi, ontr	L11	Not Available		
Accel, heelpt, to steer, whi, ontr	H17	•		
Undepressed floor covering thickness	H67	16 (0.6)		

		Front Compa	artment Int. Dim. Are	Measured With The Seating Ref. Pt.
Rear Compartment		(SgRP)	mm Forward And	mm Upward of Rearmost Position.
SgRP point couple distance	L50	668 (26.3)		
Effective head room	H63	905 (35.6)		
Min. effective leg room	L51	733 (28.9)		
SgRP (second to heel)	H31	183 (7.2)		
Knee clearance	L48	-15 (-0.6)	·	
Shoulder room	W4	1430 (56.3)		
Hip room	W6	1087 (42.8)		
Upper body opening to ground	H51	<b></b>		
Back angle (deg.)	L41	28.0		•
Hip angle (deg.)	L43	68.0		
Knes angle (deg.)	L45	66.5		
Foot angle (deg.)	L47	116.5		
Depressed floor covering thickness	H73	18 (0.7)		

#### Luggage Compartment

	Luggago Comparament		
	Usable luggage capacity L (cu. ft.)	V1	350 (12.4)
• •	Liftover height	H195	879 (34.6)

Interior Volumes (EPA Classification)

Vehicle class	Sub-Compact
Interior volume index (cu. ft.)	96.1
Trunk / cargo index (cu. ft.)	12.4

<sup>\*</sup>See page 14. \*\*Includes passenger and trunk / cargo index ~ see definition page 32.

<sup>\*\*\*</sup> EPA Loaded Vehicle Weight, Loading Conditions All Linear Dimensions Are in Millimeters (inches)

MVMA Specifications	IVMA Specif	ications
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Vehicle Line	FIRE	BIRD				
Model Year	1991	Issued	12-89	Revised(*)	4-90	

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for Definitions

Body Type

2FS87	2FW87	
ı		

Station Wagon - Third Seat	SAE Ref. No. (NOT APPLICABLE)
Seat facing direction	SD1
SgRP couple distance	L85
Shoulder room	W85
Hip Room	W86
Effective leg room	1.86
Effective head room	H86
SgRP to heel point	H87
Knee clearance	L87
Back angle (deg.)	L88
Hip angle (deg.)	L89
Knee angle (deg.)	L90
Foot angle (deg.)	L91

Station Wagon - Cargo Space	(NOT APPLICABLE)
Cargo length (open front)	L200
Cargo length (open second)	L201
Cargo length (closes front)	L202
Cargo length (closed second)	L203
Cargo length at beit (front)	L204
Cargo length at belt (second)	L205
Cargo width (wheelhouse)	W201
Rear opening width at floor	W203
Opening width at belt	W204
Min. rear opening width above belt	W205
Cargo height	H201
Rear opening height	M202
Tailgate to ground height	H250
Front seat back to load ficor height	H197
Cargo volume index cu. m. (cu. ft.)	V2
Hidden cargo vol. index cu. m. (cu. ft.)	V4
Cargo volume index-rear of 2-seat	V10

Hatchback - Cargo Space

Cargo length at front seatback height	L208	886 (34.9)
Cargo length at floor (front)	L209	1556 (61.3)
Cargo length at second seatback height	L210	610 (24.0)
Cargo length at floor (second)	L211	845 (33.3)
Front seatback to load floor height	H197	360 (14.2)
Second seatback to load floor height	H198	242 (9.5)
Cargo volume index cu. m. (cu. ft.)	V3	879 (31.0)
Hidden cargo vol. index cu. m. (cu. ft.)	V4	
Cargo volume index-rear of 2-seat	V11	350 (12.4)
Cardo Aginus super-ser, o: 5-ser.		

<sup>\*</sup> EPA Loaded Vehicle Weight, Loading Conditions

All Linear Dimensions Are in Millimeters (inches)

Vehicle Line	_ FIRE	BIRD			 
Model Year	1991	Issued	12-89	Revised(*)	

### METRIC (U.S. Customary)

Body Type	2FW87	2FW87
BOOY 13P4	2, 410,	 

Fiducial Mari Number*	k	Define Coordinate Location
		X - Fiducial Mark To Vertical Zero Grid Line - Front Measured Horizontally, From The Zero Grid Line To The Front Fiducial Mark Located On Top Of The Front Seat Adjuster Mounting Bolt.
Front		Y - Fiducial Mark To Centerline Of Car - Front, Width Measurement Made From Centerline Car  To Fiducial Mark Located On Top Of The Front Seat Adjuster Mounting Block.
		Z - Fiducial Mark To Horizontal Zero Grid Line - Front Measured Vertically From Zero Grid Grid Line To Front Fiducial Mark Located On Top Of The Front Seat Adjuster Mounting Block.
		X - Fiducial Mark To Vertical Zero Grid Line - Rear, Measured Horizontally From The Zero Grid Line To Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).
		Y - Fiducial Mark To Centerline Of Car - Rear, Width Measurement Made From Centerline Of Car To Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).
Rear		Z - Fiducial Mark To Horizontal Zero Grid Line - Rear, Measured Vertically From The Zero Grid Line To Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).
Fiducial Mark Number		
	W21'	540 (21.3)
	L54°	688 (27.1)*
ront	H81*	-32 (-1.3)#
	H161*	293 (11.5)
**	H163*	267 (10.5)
	W22*	548 (21.6)
	L55*	2815 (110.8)*
lear	H82"	96 (3.8)#
	H162*	421 (16.6)
**	H184*	402 (15.8)
		1 * Vertical Base Grid 2000 mm Line

<sup>\*</sup> Reference + SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

<sup>\*\*\*</sup> EPA Loaded Vehicle Weight, Loading Conditions
All Linear Dimensions Are in Millimeters (inches)

Vehicle Line

FIREBIRD

METRIC (U.S. Customary)

12-89 Revised(\*) 4-90 Model Year 1991 Issued

		Op	tional E	quipmen	nt Differential Mass (weight)	
			MASS, kg. (I	1 "	Remarks	
ode	Equipment	Front	Rear	Total	Restrictions, Requirements	
<b>\3</b> 1	Power Windows	1.2 (2.6)	1.0 (2.2)	(4.8)		
		(2.0)	(2.2)	(4.0)		
C1	Hatch Roof	5.8	9.6	15.4		
		(12.8)	(21.1)	(33.9)	Integral Locks	
260	Air Conditioning	18.0	1.4	19.4		
		(39.7)	(3.1)	(42.8)	With LB9 Engine, MD8 Trans.	
		17.6	1.2	18.8		
	<u></u>	(38.8)	(2.6)	(41.4)	With LB9 Engine, MK6 Trans.	
		15.8 (34.8)	1.4 (3.0)	17.2 (37.8)	With LO3 Engine	
					,	
		17.6	1.2	18.8		
-		(38.7)	(2.6)	(41.3)	With L98 Engine	
D81	Spoiler - Aero Wind	8	8.0	7.2		
		(-1.8)	(17.7)	(15.9)	2FW87 Only	
165	4-Wheel Disc Brakes	0	14.0	14.0		
		(0)	(30.8)	(30.8)	With LB9 Engine	
			44.0	14.0		
		(0)	14.8 (32.6)	14.8 (32.6)	With L98 Engine	
(34	Cruise Control	2.2 (4.9)	0 (0)	2.2 (4.9)		
<b>.</b> 03	5.0 Liter V8 (305 CID)	70.2 (154.8)	2.2 (4.8)	72.4 (159.6)	With M39 Transmission	
.03	5.0 Liter V8 (305 CID)	53.4	1.8	55.2	Migh MDg Tananinin	
		(117.8)	(4.0)	(121.8)	With MD8 Transmission	

<sup>\*</sup>Also see Engine - General Section for dressed engine mass (weight).

Vehicle Line

FIREBIRD

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Issued

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4-90

METRIC (U.S. Customary)

	VEHICLE MASS (weight)					% PASS MASS DISTRIBUTION			
	CURB	MASS, kg. (I	b.)°	SHIPPING MASS Eg (1b)		PASSI	N FRONT	PASSI	N REAR
Code Model	Front	Rear	Total	kg (lb)	ETWC**	Front	Rear	Front	Rear
FIREBIRD (2FS87)	773	642	1415	1380			i.	•	
2-Door Coupe (LHO & MB1)	(1704)	(1417)	(3121)	(3044)	3500				
FIREBURD CHIV (ZFSET) Z-DR CONV(LHOTMBI)			3361						
FIREBIRD TRANS AM (2FW87)	847	669	1516	1481	1				ŀ
2-Door Coupe (LB9 & M39)	(1868)	(1475)	(3343)	(3266)	3750		<u> </u>		<del> </del>
FREEZEAD T/A (in (2FW67)			3418				-		ļ 
Z-Diz City (489 7 MI37) FIREBIRD FORMULA (2FS87)	857	670	1528	1493		1		ļ	•
W/W66 2-Door Coupe (LO3 & M39)	(1890)	(1480)	(3370)	(3293)	3750	<del> </del>	<del> </del>	<del>                                     </del>	
		1				<u> </u>			
FIREBIRD GTA (2FS87)	879	688	1567	1532	1				
W/Y64 2-Door Coupe (LB9 & MK6)	(1938)	(1518)	(3456)	(3379)	3875	<b></b>		<del>  -</del>	<del>                                       </del>
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\* Reference – SAE J1100 Motor vehicle dimensions, curb weight definition.

# ETWC – Equivalent Test Weight Class – bas's for U.S. Environmental Protection Agency emission certifications.

Refer to ETWC code legend below for test weight class.

ETWC	LEGEND
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BCOEF	= 1000 = 1125 = 1250 = 1375 = 1500 = 1625 = 1750	I = 201 J = 211 K = 221 M = 23 M = 25 N = 26 O = 27	25 R 50 S 75 T 00 U 25 V	= 3125 = 3250 = 3375 = 3500 = 3525 = 3750	4250 4500 4750 5000 5250 5500	ĒĒ =	4250 4500 4750 5000 5250 5500
	= 1/50 = 1875	P = 28	-	= 3875		FF =	5750

ຕ Shipping Mass (weig	ht) = Curb We	ight Less:
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35 (77)


FIREBIRD

METRIC (U.S. Customary)

Vehicle Line Revised(\*) 4-90 12-89 Issued Model Year 1991

		Opt	Optional Equipment Differential M				
			MASS, kg. (II	b.)	Remarks		
Code	Equipment	Front	Rear	Total	Restrictions, Requirements		
LB9	5.0 Liter V8 (305 CID)	68.4	8.0	76.4	went has a trace Townships		
		(150.5)	(17.6)	(168.1)	With M39/MK6 Transmission		
Bo	5.0 Liter V8 (305 CID)	63.8	6.4	70.2	·		
LB9	5.0 Liter VB (303 CiD)	(140.7)	(14.1)	(154.8)	With MD8 Transmission		
98	5.7 Liter V8 (350 CID)	68.0	8.8	74.8			
		(149.9)	(15.0)	(164.9)	With MD8 Transmission		
MD8	Automatic Transmission With Overdrive	12.8	4.4	17.2			
MIDO	Automatic Transmission vivin determine	(28.2)	(9.7)	(37.9)	With LHO Engine		
	,	31.4	10.0	41.4			
		(69.2)	(22.0)	(91.2)	With LO3, LB9, L98 Engines		
F41	Ride & Handling Suspension	-2.6 (-5.7)	(0)	-2.6 (-5.7)	With LHO Engine		
			\- <del>`</del> -				
	<u> </u>	6	0	6			
		(-1.3)	(0)	(-1.3)	With LB9/LO3 Engines		
				ļ			
MK6	Manual Trans 5 Speed	4 (9)	(0)	(9)	With LB9 Engine		
			Ť	1			
M39	Manual Transmission - 5 Speed	4	0	4			
		(9)	(0)	(9)`			
				1.5			
N10	Dual Exhaust	2 (4)	2.0 (4.4)	1.8 (4.0)			
			1	1			
T96	Fog Lamps	1.8	2	1.6			
		(4.0)	(4)	(3.6)			
		1.0	.2	1.2			
U75	Power Antenna	(2.2)	(.4)	(2.6)			

<sup>\*</sup> Also see Engine + General Section for cressed engine mass (weight).

Vehicle Line FIREBIRD

METRIC (U.S. Customary)

12-89 Revised(\*) 4-90 Model Year 1991 Issued

		Ор	tional E	quipment D	Differential Mass (weight)*		
			MASS, kg. (II	b.}			
Code	Équipment	Front	Rear	Total	Remarks Restrictions, Requirements		
АНЗ	4-Way Manual Seat Adjuster - Left-Hand	1.2	.2	1.4			
		(2.6)	(.4)	(3.1)			
					•		
AM9	Rear Folding Seat - Split Back	.2	1.0	1.2			
		(.4)	(2.2)	(2.6)			
AQ9	Front Reclining Bucket Seat ~ -	5.2	6.2	11.4			
AG9	Door/Passenger	(11.5)	(13.7)	(25.1)			
	Door, Accorded			-) /			
AU3	Electric Side Door Locks	.8	1.0	1.8			
		(1.8)	(2.2)	(4.0)	·		
A90	Electric Rear Compartment Lid	.2	.4	.6			
		(.4)	(.9)	(1.3)			
BC8	Door Map Pockets	.2	.2	.4			
		(.4)	(.4)	(9.)			
CD4	Pulse Wiper System	0	0	0			
<del></del>		(0)	(0)	(0)			
C49	Rear Window Defogger	_	.4	.4			
		(0)	(.9)	(.9)			
<del> </del>				ļ			
DC4	Rear View Mirror	.4 (.9)	(0)	.4 (.9)			
			1				
DD9	Mirror - LH/RH	.8	0	.8	· · · · · · · · · · · · · · · · · · ·		
		(1.8)	(0)	(1.8)			
DE4	Sunshade - Hatchroof	.6	.8	1.4			
JE4	Sunsinger - Franciscot	(1.3)	(1.8)	(3.1)			
DG7	Mirrors - O/S Remote LH/RH	.8	.2	1.0			
		(1.8)	(.4)	(2.2)			
			<u> </u>				

<sup>\*</sup> Atso see Engine - General Section for dressed engine mass (weight);

FIREBIRD

METRIC (U.S. Customary)

Vehicle Line 12-89 Revised(\*) 4-90 Issued Model Year

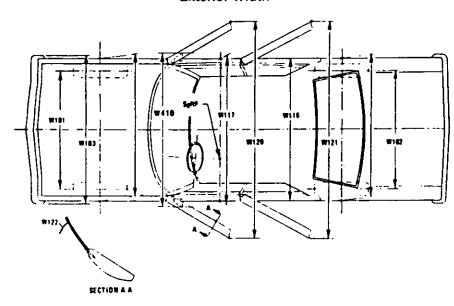
		Optional Equipment Differential Mass (weight)*				
			MASS, kg. (I	b.)	_	
Code	Equipment	Front	Rear	Total	Remarks Restrictions, Requirements	
D42	Rear Compartment Security Cover	4	2.4	2.0	•	
		(9)	(5.3)	(4.4)		
G80	Limited Slip Rear Axle	0	2.0	2.0		
		(0)	(4.4)	(4.4)		
KC4	Engine Oil Cooling System	3.2	4	2.8		
		(7.0)	(9)	(6.1)		
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<sup>\*</sup> Also see Engine – General Section for dressed engine mass (weight).

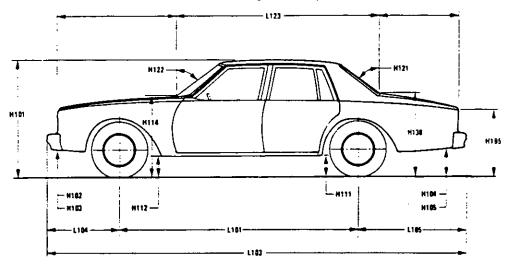
METRIC (U.S. Customary)

#### Exterior Vehicle And Body Dimensions - Key Sheet

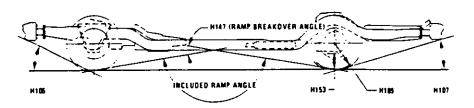
## **Exterior Width**



## Exterior Length & Height



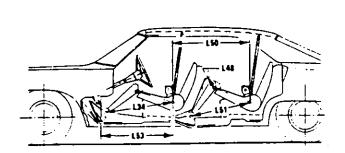
## **Exterior Ground Clearance**

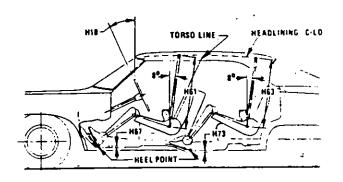


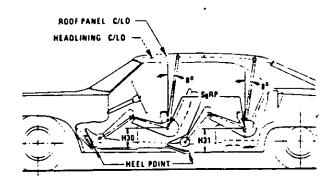
# **MVMA Specifications Form**

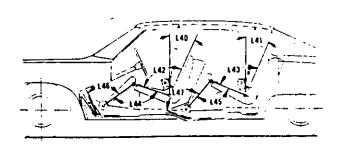
METRIC (U.S. Customary)

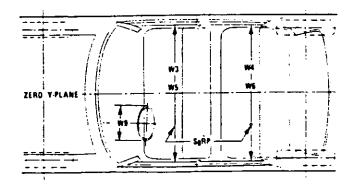
### Interior Vehicle And Body Dimensions - Key Sheet

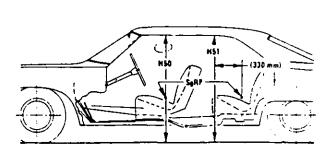










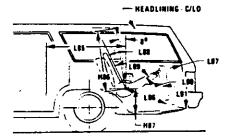


# **MVMA Specifications Form**

METRIC (U.S. Customary)

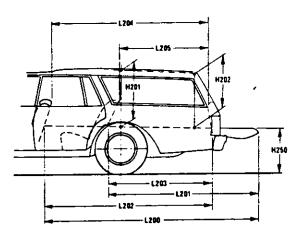
### Interior Vehicle And Body Dimensions — Key Sheet

#### **Third Seat**

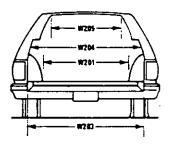


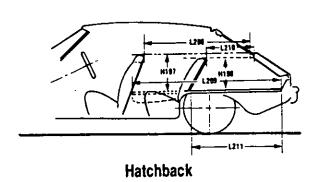
Cargo Space





**Station Wagon** 





**METRIC (U.S. Customary)** 

#### Exterior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's

design reference point which -

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle:
(b) Has coordinates established relative to the design vehicle structure;

(c) Simulates the position of the pivot center of the human

torso and thigh; and

(d) is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,".

#### Width Dimensions

TREAD-FRONT. The dimension measured between the

tire centerlines at the ground.

TREAD - REAR. The dimension measured between the tire W102 centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels. if standard equipment.

BODY WIDTH AT SgRP-FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.

VEHICLE WIDTH - FRONT DOORS OPEN. The dimension W120 measured between the widest point on the front doors in maximum hold-open position

VEHICLE WIDTH-REAR DOORS OPEN. The dimension

measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane. TUMBLE - HOME. STRAIGHT SIDE GLASS. The angle

measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front

SgRP "X" plane.
OUTSIDE MIRROR WIDTH: The dimension between the W410 widest point on the outside mirrors. The standard right and teft mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

#### Length Dimensions

W121

WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

VEHICLE LENGTH. The maximum dimension measured L103 longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and or rub strips, if standard equipment.

OVERHAND - FRONT. The dimension measured longitudi-L104 nally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow

hooks and or rub strips, if standard equipment.

OVERHANG – REAR. The dimension measured longitudi-L105 nally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

UPPER STRUCTURE LENGTH. The dimension measured L123 longitudinally from the cowl point to the deck point.
REAR WHEEL CENTERLINE "X" COORDINATE or in the

L127 case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.

#### Height Dimensions

VEHICLE HEIGHT. The dimension measured vertically from H101

the highest point on the vehicle body to ground.

ROCKER PANEL-REAR TO GROUND. The dimension H111 measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening. excluding flanges, to ground.

ROCKER PANEL - FRONT TO GROUND. The dimension

H112 measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

COWL POINT TO GROUND. Measured at zero "Y" plane.

BACKLIGHT SLOPE ANGLE. The angle between the

H114

H121 vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord

of backlight arc from lower DLO to upper DLO.
WINDSHIELD SLOPE ANGLE. The angle between the H122 vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield

H138

DECK POIN: TO GROUND. Measured at zero "Y" plane. STATIC LO-1. -TIRE RADIUS - REAR. Specified by the H109 manufacturer in accordance with composite TIRE SECTION STANDARD.

#### **Ground Clearance Dimensions**

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

FRONT BUMPER TO GROUND-CURB MASS (WT.). H103

Measured in the same manner as H102.

REAR BUMPER TO GROUND. The minimum dimension H104 measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

REAR BUMPER TO GROUND-CURB MASS (WT.). H105

Measured in the same manner as H104.

ANGLE OF APPROACH. The angle measured between a H106 line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be

ANGLE OF DEPARTURE. The angle measured between a H107 line tangent to the rear tire static loaded radius arc and the initial point structural interference rearward of the rear tire

to ground. The limiting component shall be designated. RAMP BREAKOVER ANGLE. The angle measured be-H147 tween two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

REAR AXLE DIFFERENTIAL TO GROUND. The minimum H153 dimension measured from the rear axle differential to

MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground, Specify location.

METRIC (U.S. Customary)

#### Interior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

-	
Glass	Areas
S1	Windshield area.
S2	Side windows area. Includes the front door, rear door, vents.
S3	and rear quarter windows on both sides of the vehicle.  Backlight areas.
53 54	Total area. Total of all areas (S1 + S2 + S3).
_	lai Mark Dimensions
Plauc	
L54	Fiducial Mark — Number 1 "X" coordinate.
W21	"Y" coordinate.
H81	"Z" coordinate.
H161 H163	Height "Z" coordinate to ground at curb weight.  Height "Z" coordinate to ground.
11103	Fiducial Mark - Number 2
L55	"X" coordinate.
W22 W82	"Y" coordinate.
H162	"Z" coordinate.  Height "Z" coordinate to ground at curb weight.
H164	Height "Z" coordinate to ground.
Front	Compartment Dimensions
L11	ACCELERATOR HEEL POINT TO STEERING WHEEL
	CENTER. The dimension measured horizontally from the
	AHP to the intersection of the steering column centerline
	and a plane tangent to the upper surface of the steering wheel rim.
L17	DESIGN H-POINT - FRONT TRAVEL. The dimension meas-
	ured horizontally between the design H-point - front in the
	foremost and rearmost seat track positions. (See SAE J1100)
L23	NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL.
	The dimension measured horizontally between a point on
	the design H-point travel line from the SgRP to the displaced
	point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track
	travel used for purposes other than normal driving and riding
121	positions. (See SAE J1100).
L31 L34	SgRP-FRONT. "X" COORDINATED.  MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR.
	The dimension measured along a line from the ankle pivot
	center to the SgRP - front plus 254 mm (10.0 in.) 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 manufac-
	turer shall place foot flat on pedal and note the depression of the pedal.
L-40	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
L-42	position specified by the manufacturer.  HIP ANGLE – FRONT. The angle measured between torso
	line and thigh centerline.
L44	KNEE ANGLE - FRONT. The angle measured between thigh centerline and lower leg centerline measured on the
	right leg.
L46	FOOT ANGLE - FRONT. The angle measured between the
	lower leg centerline and a line tangent to the ball and heel
	of the bare foot flesh line measured on the right leg. Ref SAE J826.
L53	SgRP-FRONT TO HEEL The dimension measured
	horizontally from the SgRP-front to the accelerator heel
W3	point. SHOULDER ROOM - FRONT. The minimum dimension
	massured laterally between the trimmed surfaces on the

W5	HIP ROOM - FRONT. The minimum dimension measured
	laterally between the trimmed surfaces on the "X" plane
	through the SqRP - front within 25 mm (1.0 in.) below and
	76 mm (3.0 in.) above the SgRP - front and 76 mm (3.0 in.)
	fore and aft of the SgRP - front.
W9	STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.
	Define if other than round.
H7	ACCELERATOR HEEL POINT TO THE STEERING WHEEL
	CENTER. The dimension measured vertically from the
	AHP-front to the intersection of the steering column
	centerline to a plane tangent to the upper surface of the
	steering wheel rim.
H18	STEERING WHEEL ANGLE. The angle measured from a

vertical to the surface plane of the steering wheel. SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point. H30 UPPER BODY OPENING TO GROUND-FRONT. The H50 dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.

H61 EFFECTIVEHEAD ROOM - FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP - front

to the headlining plus 102 mm (4.0in.). **H67** FLOOR COVERING THICKNESS - UNDEPRESSED -FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

#### **Rear Compartment Dimensions**

- BACK ANGLE-SECOND. The angle measured between 1-41 a vertical line through the SgRP - second and the torso line. HIP ANGLE - SECOND. The angle measured between
- L43 torso line and thigh centerline.
- KNEE ANGLE SECOND. The angle measured between
- thigh centerline and lower leg centerline.
  FOOT ANGLE SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE - SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE - SECOND. The dimension measured horizontally from the driver SqRP-front to the SgRP-second.
- MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-L51 mension measured along a line from the ankle pivot center to the SgRP - second plus 254 mm (10.0 in.).
- W4 SHOULDER ROOM - SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and
- attaching parts.
  HIP ROOM SECOND. Measured in the same manner as W6
- SgRP-SECOND TO HEEL. The dimension measured H31 vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering
- UPPER BODY OPENING TO GROUND SECOND. The H51 dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP – second.
- EFFECTIVE HEAD ROOM-SECOND. The dimension H63 measured along a line 8 deg. rear of vertical from the SgRP
- to the headlining, plus 102 mm (4.0 in.).
  FLOOR COVERING DEPRESSED SECOND. The di-H73 mension measured vertically from the heel point to the underbody sheet metal,

MVMA-91 Page 31

measured laterally between the trimmed surfaces on the

"X" plane through the SgRP-front at height between the

belt line and 254 mm (10.0 in.) above the SgRP-front, excluding the door assist strap and attaching parts.

**METRIC (U.S. Customary)** 

# Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

#### 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 SAE-J1100a.

#### Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estiamtes the space in a car. It is based on four measurements — head room, shoulder room, hip room, and leg room — for the front and rear seats, plus trunk capacity. The Interior Volume Index is an estimate of the size of the passenger compartment.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat. .

#### Station Wagon - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE THIRD. The dimension measured horizontally from the SgRP second to the SgRP third.
- L86 EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SqRP-third plus 254 mm (10.0 in.).
- L87 KNEE CLEARANCE THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE THIRD. Measured in the same manner as
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE THIRD. Measured in the same manner as L45
- L91 FOOT ANGLE THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM THIRD. Measured in the same manner as W4.
- W86 HIP ROOM THIRD. Measured in the same manner as W5.

  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 102 mm (4.0 in ).
- H87 SGRP THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION THIRD.

#### Station Wagon - Cargo Space Dimensions

- 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 backpanel 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.
- W201 CARGO WIDTH WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to 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.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate 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 MASS (WT.). 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:

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

**METRIC (U.S. Customary)** 

#### Interior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

**V4** HIDDEN LUGGAGE CAPACITY - REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load

floor rear of the front seat.
TRUCKS AND MPV'S WITH OPEN AREA. **V**5

Measured in inches:

Measured in mm:

L506 x W500 x H503 = m³ (cubic meter) 10<sup>9</sup>

**V6** TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$$

HIDDEN LUGGAGE CAPACITY-REAR OF SECOND **V8** SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

STATION WAGON CARGO VOLUME INDEX. V10

Measured in inches:

Measured in mm:

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 electronically adjusted seats, see the manufacturer's specifications for Design "H" Point).

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.

CARGO LENGTH AT FLOOR - FRONT - HATCHBACK.

L209 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.

CARGO LENGTH AT SECOND SEATBACK L210 HEIGHT-HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.

CARGO LENGTH AT FLOOR-SECOND HATCHBACK. L211 The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

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

SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback to the undepressed floor covering.

**V3** HATCHBACK.

Measured in inches:

$$\frac{L208 + L209}{2} \times W4 \times H197$$
=  $1728$ 

Measured in mm:

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

**V4** HIDDENLUGGAGE CAPACITY - REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load HATCHBACK CARGO VOLUME INDEX. Usable luggage

V11 (one (1) stand and luggage set) below (loor:

Measured in inches:

$$\frac{L210 + L211}{2} \times W4 \times H198$$

$$= 1728$$

Measured in mm:

$$\frac{1210 + L211}{2} \times W4 \times H198$$
= m<sup>3</sup> (cubic meter)

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