MOTOR VEHICLE Specifications

METRIC (U.S. Customary)

Passenger Car

1985

Manufacturer	Car Line		
FORD MOTOR COMPANY	THUI	THUNDERBIRD	
Mailing Address			
P.O. BOX 2053	<u> </u>		
DEARBORN, MICHIGAN 48121	issued SEPTEMBER, 1984	Revised	

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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

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NOTE:

- 1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
- 2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
- The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
- 4. Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

Car Line THUNDERBIRD Model Year 1985 is

_issued __9/84

Revised (*)

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Car Models

		Cai Mode	13	
Model Descriptio FWD/RW	on Introduction	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
% THUNDE	RBIRD			
2-Doo1	enter	63D	2/3	45.0 (100)
% ELAN	Est.			
2-Door		63D	2/3	45.0 (100)
% <u>FILA</u>				
2-Door		63D	2/3	45.0 (100)
% TURBO	COUPE			
2-Door	•	63D	2/3	45.0 (100)

% Rear Wheel Drive (RWD)

Car LineTHUNDERE	IRD		
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Power Teams (Indicate whether standard or optional) SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

		E	NGINE			E	I	
SERIES AVAILABILITY	Dispt. Liters (In ³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Ne kW (bhp)	Torque N - m (lb. ft.)	haust/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
		50 ST	ATES/0	ANADA,	ALTIT			
A11	3.8 (232)	CFI\$ 2V@	8.7	90 (120) 3600	278 (205) 1600	S	AT3 AOD\$	2.73T, 3.08T@ 3.27*\$, 3.45T#
A11	5.0 (302)	CFI	8.4	104 (140) 3200	339 (250) 1600	S	AOD	2.73T, 3.08T
Turbo Coupe	2.3 Turbo (140)	EFI	8.0	116 (155) 4600	258 (190) 2800	S	M5OĐ	3.45T
				108 (145) 4400	244 (180) 3000	S	AT3	3.45T
				:				
AT3 - 3-Spee AOD - 4-Spee M5OD - 5-Spee T - Tractic \$ - Canada e - Canada * - Altitue # - Altitue	d Automa d Manual on-Lok Not Ava Only de Not A	tic Overd	erdriv rive T	e Tran	smiss	ssi .on	on	

 Car Line
 ______THINDERBIRD

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Engine	Description/Carb.
Engine	Code

3.8L (232 CID)

ENGINE - GENERAL

Type & description (in flat, location, front, m transverse, longitudir ohv, hemi, wedge, pr	id, rear, nai, sohc, dohc,	90°V, Front, Longitudinal Overhead Valve Engine With Modified Wedge Combustion Chamber	
No. of cylinders		Six	
Bore		96.8 (3.8)	
Stroke		86.0 (3.4)	
Bore spacing (c / 1 to	c/l)	106.5	
Cylinder block materi	al	Cast Iron	
Cylinder block deck h	neight	234.5	
Deck clearance (mini- (above or below block		0.255 (0.010) Above	
Cylinder head materia	al	Aluminum	
Cylinder head volume	e (cm³)	62.9	
Head gasket thickness (compressed)		1.04-1.19 (0.041-0.047)	
Minimum combustion total volume (cm³)	chamber ·	76.8	
Cyl. no. system	L. Bank	4, 5, 6	
(front to rear)*	R. Bank	1, 2, 3	
Firing order		1, 4, 2, 5, 3, 6	
Recommended fuel (leaded, unleaded, di	esel)	Unleaded	
Fuel antiknock index (R + M)		87 Minimum Octane	
Total dressed engine mass (wt) dry**		186.5 (411.1) AT3; 185.3 (408.6) AOD	
Engine – Pisto	ns		
Material & mass, g (weight, oz.) - piston	only	Aluminum Alloy 521 (18.4)	

Engine – Camshaft

Location		In Block
Material & mass kg (weight, lbs.)		Special Alloy Iron, Green Sand Molded, Induction Hardened, Phosphate Coated 4.04 (8.9)
Drive type	Chain / belt	Chain (Silent)
Width / pitch		19.99 - 18.72 (.7974)/9.53 (.37)

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

Front End Dress, All Engine Mounted Components and Flex Plate; Excludes Starter and Alternator.

^{**} Dressed engine mass (weight) includes the following:

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METRIC (U.S. Customary)

Engine Description/Carb.	
Engine Code	5.0L
	(302 CID)

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)		90°V - Front, Longitudinal Overhead Valve Engine With Modified Wedge Combustion Chamber
No. of cylinders	·	Eight
Воге		101.6 (4.00)
Stroke		76.2 (3.00)
Bore spacing (c / I to	c/I)	111.3 (4.38)
Cylinder block mater	ial	Cast Iron
Cylinder block deck I	height	208.4 (8.20)
Deck clearance (minimum) (above or below block)		0.013 (0.0005) Below
Cylinder head materi	al	Cast Iron
Cylinder head volum	e (cm³)	67.5 - 70.5
Head gasket thicknes (compressed)	SS	1.04 - 1.19 (0.041 - 0.047)
Minimum combustion otal volume (cm³)	chamber	78.9
Cyl. no. system	L. Bank	5, 6, 7, 8
front to rear)*	R. Bank	1, 2, 3, 4
Firing order		1, 5, 4, 2, 6, 3, 7, 8
Recommended fuel leaded, unleaded, di	esel)	Unleaded
Fuel antiknock index (R + M)		VIII CHACA
2		87 Minimum Octane
Total dressed engine mass (wt) dry**		259.6 (572.4)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy 583 (20.6)
	<u></u>

Engine - Camshaft

Location		In Block	
Material & mass kg (weight, lbs.)		Special Alloy Iron, Green Sand Molded, Induction Hardened, Phosphate Coated 4.08 (9.0)	
Drive type	Chain / belt	Chain (Silent)	
	Width / pitch	18.4-19.1 (0.73-0.75) / 9.53 (0.37)	

^{*}Bear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.
*Dressed engine mass (weight) includes the following: Front End Dress, All Engine Mounted Components and Flex Plate; Excludes Starter and Alternator.

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Engine	Description/Carb.
Engine	Code

2.3L/EFI TC (140 CID)

ENGINE - GENERAL

To 0 days 1 d 0 d		Inline, Front, Longitudinal		
Type & description (inline, V, angle, flat, location, front, mid, rear,		Single Overhead Camshaft Engine With Modified Wedge		
transverse, longitudinal, s	ohc, dohc,	Combustion Chamber		
ohv, hemi, wedge, pre-ca	mber, etc.)	oomb do Exor. Oramber		
No. of cylinders		Four		
Bore		96.04 (3.78)		
Stroke		79.40 (3.12)		
Bore spacing (c / I to c / I))	105.99 (4.17)		
Cylinder block material		Cast Iron		
Cylinder block deck heigh	nt .	212.55 (8.36)		
Deck clearance (minimum (above or below block)	n)	0.178 (0.007) Above		
Cylinder head material		Cast Iron		
Cylinder head volume (cr	n ³)	56.6		
Head gasket thickness	,	·		
(compressed)		1.09 (0.043)		
Minimum combustion cha total volume (cm ³)	ımber _	76.9		
Cyl. no. system	L. Bank	- -		
(front to rear)*	R. Bank			
Firing order		1, 3, 4, 2		
Recommended fuel (leaded, unleaded, diesel)	Unleaded		
Fuel antiknock index	(R + M)			
	2	87 Minimum Octane		
Total dressed engine mas	ss (wt) dry**	186.1 (410.2) M50D; 187.4 (413.1) AT3		
Engine – Pistons	•			
Material & mass, g (weight, oz.) - piston only		480 (16.9) Forged Aluminum Alloy		
Engine – Camsha	ft			
Location		Cylinder Head		
Managed Comments of the		ESE-M1A-117-B		
Material & mass kg (weig	nı, (DS.)	Hardenable Cast Iron 2.93 (6.45)		
Drive type	Chain / belt	Belt		
Sirro type	Width / pitch	21.8-22.7 (0.86-0.90)/9.52 (0.37)		

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

Front End Dress, All Engine Mounted Components and Flex Plate; Excludes Starter and Alternator.

^{**} Dressed engine mass (weight) includes the following:

	Jugor Out		
METRIC	C (U.S. Customary)		
Engine De Engine Co	scription/Carb. de	3.8L (232 CID)	-
Engine -	- Valve System		•
Hydraulic lift	ers (std., opt., NA)	Standard	•
	Number intake / exhaust	6/6	-
Valves	Head O.D. intake / exhaust	45/37	-
Engine -	Connecting Rods		-
Material & m	ass [kg., (weight, ibs.)]	Forged Steel (SAE-1151-M) .665667 (1.46-1.47)	-
Engine -	Crankshaft		-
Material & m	ass [kg., (weight, lbs.))	Nodular Cast Iron Alloy 14.06 (31)	•
End thrust ta	ken by bearing (no.)	#3	-
Number of m	nain bearings	4	-
Engine –	Lubrication System		-
Normal oil pr	essure [kPa (psi) at engine rpm]	276-414 (40-60) @ 2000 RPM	•
Type oil intal	(e (floating, stationary)	Stationary Shrouded Screen in Sump	_
Oil filter syste	em (full flow, part, other)	Full Flow	-
Capacity of c	/case, less filter-refill-L (qt.)	3.8 (4.0) Plus 0.9 (1.0) for Filter	-
Engine	Diesel Information	(NOT OFFERED)	-
Diesel engind	e manufacturer		•
Glow plug, co	rrent drain at 0°F		-
njector	Туре		-
nozzie	Opening pressure [kPa (psi)]		-
re-chamber	design		•
uel in-	Manufacturer		-
ection pump	Туре		-
	pump drive (belt, chain, gear)		-
	ry vacuum source (type)		-
uel heater (y	/es/no)		-

Water separator, description (std., opt.)

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

Turbo manutacturer

Oil filter

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MEINIC	(0.5. Customary)	
Engine Des Engine Cod	scription/Carb. de	5.0L (302 CID)
Engin e –	- Valve System	
Hydraulic lift	ers (std., opt., NA)	Standard
	Number intake / exhaust	8/8
Valves	Head O.D. intake / exhaust	45.2 (1.78)/36.8 (1.45)
Engine -	Connecting Rods	
Material & m	nass [kg., (weight, lbs.)]	Forged Steel 0.55 (1.23)
Engine -	- Crankshaft	
Material & m	nass [kg., (weight, lbs.)]	Nodular Cast Iron Alloy 17.3 (38.2)
	aken by bearing (no.)	#3
Number of n	nain bearings	5
Engine -	- Lubrication System	•
Normal oil p	ressure [kPa (psi) at engine rpm]	276-414 (40-60) @ 2000 RPM
Type oil inta	ke (floating, stationary)	Stationary Shrouded Screen in Sump
Oil filter syst	tem (full flow, part, other)	Full Flow
Capacity of	c/case, less filter-refill-L (qt.)	3.8 (4.0) Plus 0.9 (1.0) for Filter
Engine -	- Diesel Information	(NOT OFFERED)
Diesel engir	ne manufacturer	
Glow plug, o	current drain at 0°F	
Injector	Туре	
nozzle	Opening pressure [kPa (psi)]	<u></u>
Pre-chambe		
Fuel in- jection pump	Manufacturer	
	P Type on pump drive (belt, chain, gear)	
	lary vacuum source (type)	
Fuel heater		
Water separ	rator, description	
Turbo manu	ıfacturer	
Oil cooler-ty oil to ambie	rpe (oil to engine cootant; nt air)	
Oil filter		
Engine -	- Intake System	(NOT OFFERED)
Turbo charg	ger - manufacturer	
Super char	ger - manufacturer	
Charge coo	ler	

Car Line	THUNDER	RBIRD			
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MEIRIC	(U.S. Customary)	
Engine Des Engine Cod	cription/Carb. la	2.3L/EFI TC (140 CID)
Engine –	Valve System	
Hydraulic lifte	ers (std., opt., NA)	Standard
Matura	Number intake / exhaust	4/4
Valves	Head O.D. intake / exhaust	44/38
Engine –	Connecting Rods	
Material & ma	ass [kg., (weight, lbs.)]	Forged Steel (SAE-1041-H or SAE-1541-H) 0.626-0.642 (1.38-1.41
Engine –	Crankshaft	
Material & ma	ass [kg., (weight, lbs.)]	Nodular Cast Iron Alloy 15.48 (34.13)
End thrust tal	ken by bearing (no.)	#3
Number of m	ain bearings	5
Engine	Lubrication System	
	essure [kPa (psi) at engine rpm]	379 (55) PSI @ 2000 RPM
	e (floating, stationary)	Stationary
	em (full flow, part, other)	Full Flow
Capacity of c	/case, less filter-refill-L (qt.)	4.3 (4.5) Plus 0.45 (0.5) for Filter
Engine –	Diesel Information	(NOT OFFERED)
Diesel engine	manufacturer	
Glow plug, cu	rrent drain at 0°F	
Injector	Туре	
nozzle	Opening pressure [kPa (psi)]	
Pre-chamber		
Fuel in- jection pump	Manufacturer Type	
	pump drive (belt, chain, gear)	
	ry vacuum source (type)	
Fuel heater (y		
Water separa (std., opt.)	tor, description	
Turbo manufa	acturer	
Oil cooler-type	e (oil to engine coolant; air)	
Oil filter		
Engine -	Intake System	

Turbo charger - manufacturer

Super charger - manufacturer

Charge cooler

Garrett Corporation

N.A.

N.A.

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Engine	Description/Carb.
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3.8L (232 CID)

Engine - Cooling System

Coolant rec	overy system (std., opt., n.a.)	Standard
Coolant fill location (rad., bottle)		Radiator Coolant Fill; Bottle Coolant Add
Radiator ca	p relief valve pressure [kPa (psi)]	97-127 (14-18)
Circulation thermostat	Type (choke, bypass)	Reverse Poppet
tremostat	Starts to open at °C (°F)	89.5-127 (193-200)
	Type (centrifugal, other)	Centrifugal
Water	GPM 1000 pump rpm	9
pump	Number of pumps	0ne
	Drive (V-belt, other)	Six Rib Poly-V
	Bearing type	Double Row, Sealed, Ball and Roller
By-pass rec	circulation (type (inter,. ext.))	External
Cooling	With heater-L(qt.)	10.1 (10.7), Plus 1.5 Quart in Overflow Bottle
system capacity	With air condL(qt.)	10.2 (10.8), Plus 1'5 Quart in Overflow Bottle
	Opt. equipment [specify-L(qt.)]	
Water jacke	its full length of cyl. (yes, no)	No
Water all an	ound cylinder (yes, no)	Yes
	Describe (type, material, no. of rows)	Crossflow, Tube and Slit Fin , Copper and Brass, 2 Row
Radiator	Std., A/C, HD	Standard A/C
core	Width	622.3 (24.5)
	Height	452.1 (17.8)
	Thickness	16.5 (0.65 29.0 (1.14)
	Fins per inch	12 C-5 11 AOD 10 C-5 9 AOD
	Std., elec., opt.	Standard
	Number of blades & type (flex, solid, material)	5 Blade Solid, Steel
	Diameter & projected width	457 (18.0), 68.5 (2.69)
	Ratio (fan to crankshaft rev.)	1.25:1
Fan	Fan cutout type	Clutch
	Drive [type (direct, remote)]	Direct
	RPM at idle (elec.)	N.A.
	Motor rating (wattage) (elec.)	N.A.
	Motor switch (type & location) (elec.)	N.A.
	Switch point (temp., pressure) (elec.)	N.A.
	Fan shroud (material)	Plastic

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Engine	Description/Carb.
Engine	Code

5.0L (302 CID)

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard		
Coolant fill location (rad., bottle)		Radiator Coolant Fill; Bottle Coolant Add		
Radiator cap relief valve pressure [kPa (psi)]		97-127 (14-18)		
Circulation	Type (choke, bypass)	Choke		
thermostat	Starts to open at °C (°F)	90-93 (193-200)		
	Type (centrifugal, other)	Centrifugal		
Water	GPM 1000 pump rpm	10		
onub	Number of pumps	One		
	Drive (V-belt, other)	Six Rib Poly-V		
_	Bearing type	Double Row, Sealed, Ball and Roller		
3y-pass rec	irculation [type (inter,. ext.)]	External		
Cooling	With heater-L(qt.)	12.6 (13.3)		
system capacity	With air condL(qt.)	12.7 (13.4)		
	Opt. equipment [specify-L(qt.)]	N.A.		
Nater jacket	ts full length of cyl. (yes, no)	Yes		
Vater all arc	ound cylinder (yes, no)	Yes		
	Describe (type, material, no. of rows)	Crossflow, Tube and Slit Fin Copper and Brass, 2 Rows		
Radiator	Std., A/C, HD	Std. A/C H.D.		
ore	Width	622.3 (24.5) 622.3 (24.5) 622.3 (24.5)		
	Height	452.1 (17.8) 452.1 (17.8) 452.1 (17.8)		
	Thickness	28.8 (1.14) 28.8 (1.14) 28.8 (1.14)		
_	Fins per inch	9 11 14		
	Std., elec., opt.	Std.		
	Number of blades & type (flex, solid, material)	5 Uneven, Steel		
	Diameter & projected width	17.5 x 2.4		
	Ratio (fan to crankshaft rev.)	1.30:1		
an	Fan cutout type	Clutch		
	Drive [type (direct, remote)]	Belt		
	RPM at idle (elec.)	N.A.		
	Motor rating (wattage) (elec.)	N.A.		
	Motor switch (type & location) (elec.)	N.A.		
ľ	Switch point (temp., pressure) (elec.)	N.A.		

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Engine	Description/Carb.
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2.3L/EFI TC (140 CID)

Engine - Cooling System

Engine -	- Cooling System			
Coolant recovery system (std., opt., n.a.)		Standard		
Coolant fill location (rad., bottle)		Radiator Coolant Fill; Bottle Coolant Add		
Radiator car	p relief valve pressure [kPa (psi)]	82.7-110.3 (12-16) Non A/C; 96.5-124.1 (14-18) With A/C		
Circulation	Type (choke, bypass)	By Pass		
thermostat	Starts to open at °C (°F)	87.9 (188–195)		
	Type (centrifugal, other)	Centrifugal - Vane		
Water	GPM 1000 pump rpm	13.1		
pump	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
	Bearing type	Double Row, Sealed, Ball and Roller		
By-pass rec	irculation [type (inter,. ext.)]	Internal		
Cooling	With heater-L(qt.)	8.4 (8.9)		
system capacity	With air cond -L(qt.)	8.4 (8.9)		
Capacity	Opt. equipment [specify-L(qt.)]	N.A.		
Water jacke	ts full length of cyl. (yes, no)	Yes		
Water all are	ound cylinder (yes, no)	Yes		
	Describe (type, material, no. of rows)	Crossflow, Tube and Slit Fin, Copper and Brass, 2 Rows		
Radiator	Std., A/C, HD	Std. A/C		
core	Width	623.3 (24.5) 623.3 (24.5)		
	Height	453.1 (17.8) 453.1 (17.8)		
	Thickness	16.5 (0.65) 35.6 (1.1)		
	Fins per inch	14 (10 w/Auto, Trans.) 13 (14 w/Auto, Trans.)		
	Std., elec., opt.	Electric		
	Number of blades & type (flex, solid, material)	Four, Solid, Plastic		
	Diameter & projected width	355.8 Nom. Dia. 40.1 Nom. PW		
	Ratio (fan to crankshaft rev.)			
Fan	Fan cutout type			
	Drive [type (direct, remote)]			
	RPM at idle (elec.)	1500 RPM		
	Motor rating (wattage) (elec.)	150 Watts Max. (180 Watts Automatic Transmission)		
	Motor switch (type & location) (elec.)	Two Terminal, Bi-Metallic Snap Disc Lower Intake Manifold		
	Switch point (temp., pressure) (elec.)	Approx. 221°		
	Fan shroud (material)	Wire Legs w/Plastic Ring		

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Engine	Description/Carb.
Engine	Code

3.8L/CFI (232 CID)	3.8L/2V (a)
(202 (12)	

Induction typ injection syst	e: carburetor, fuel em, etc.		Central Fuel Injection	Carburetor (Down Draft) (a)	
	Mfgr.		N.A.	Carburetor (Down Draft) (a)	
	Choke (type)		N.A.	Automatic, Electrically Open	
Carbure-	idle spdrpm	Manual	N,A.	Automatic, Electrically Open	
tor	(spec. neutral or drive and				
	propane if used)	Automatic	N.A.	700-DR (Ъ)	
Idle A/F mix.					
	Point of injection	1 (no.)	Throttle Body (Two Injectors)) T A	
Fuel	Constant, pulse		Pulse	N.A.	
injection	Control (electros	nic, mech.)	Electronic	N.A.	
	System pressure	e [kPa (psi)]	300 (30.5)	N.A. N.A.	
Intake manifo or water then	old heat control (e) mostatic or fixed)	haust	Exhaust	N • A •	
Aircleaner	Standard		Dry, Remote Paper Element		
type	Opțional		N.A.		
Fuel	Type (elec. or me	ech.)	Electrical	Mechanical	
pump	Location (eng., t	ank)	Frame Rail/in Tank (c)	Engine Mounted	
Pressure range [kPa (psi)]		kPa (psi)]	21-34 (3.1-4.9) (c)	41.4-55.2 (6.0-8.0)	
Fuel Tank	<u> </u>			91.4-10.2 (U.U-0.U)	
Capacity [refil	IL (gallons)]		78.0 (20.6 Gal)	79.5 (21.0 Gal)	
Location (des	cribe)		Behind Rear Axle	79.3 (21.0 Gal)	
Attachment			Two Straps with Pin and Loop at Rear; Bolt at Front		
Material			Steel (Terme Plate)	car, bort at Profit	
Filler	Location & mater	ial	Right Hand Quarter Panel		
pipe	Connection to tai	nk	Rubber Seal		
Fuelline (mate	erial)		N.A.	Nylon	
Fuel hose (ma	terial)		Nylon	Rubber Reinforced	
Return line (m	aterial)		Nylon		
Vapor line (ma	iterial)		Nylon		
Extended	Opt., n.a.		N.A.		
range Capacity [L (gallons tank Location & material		ns)]	N.A.		
		ial	N.A.		
	Attachment		N.A.		
Opt., n.a. Capacity [L (gallons)] Location & material			N.A.		
		ns)]	N.A.		
		al	N . A .		
ļ	Attachment		N.A.		
ļ	Selector switch or valve		N A .		
Separate fill			N.A.		

- (a) Canada Only
- (b) A/C and A/C Clutch De-Energized
- (c) In-Tank Pump Only, 275-310 (40-45)

Car Line	THUND	ERBIRD	
Model Year _	1985	Issued9,84	Revised (•)

METRIC (U.S. Customary)

Engine Description/Carb. Engine Code

5.0L (302 CID)

Engine	Fuel System) (See sunni	emental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)		
	-	(Ode supp	emental page for details on a definification, supercharger, runbocharger, etc. in used)		
Induction typ injection syst	e: carburetor, fuel tem, etc.				
	Mfgr.		Central Fuel Injection (a)		
	Choke (type)		Ford (Non CFI Application)		
Carbure-	t de march		Automatic (Non CFI Application) N.A.		
tor	Idle spdrpm (spec. neutral	- Wildinger	N 612 6		
	or drive and propane if	Automatic	550 (Drive) (Non CFI Annlication)		
	used)	Automatic	550 (Drive) (Non CFI Application)		
tdle A/F mix.			14,6:1		
•	Point of injection	n (no.)	Two Injectors, Throttle Body Mounted (a)		
Fuel	Constant, pulse	, flow	Pulse (a)		
injection	Control (electro	nic, mech.)	Electronic (a)		
·	System pressur	e [kPa (psi)]	270.3 (39.2)		
Intake manife or water ther	old heat control (e mostatic or fixed)	xhaust	Exhaust		
Aircleaner	Standard		Dry, Remote Paper Element		
type	Opțional		N.A.		
Fuel	Type (elec. or m	ech.)	Electric (b)		
pump	Location (eng.,	tank)	One Pump System in the Fuel Tank (b)		
	Pressure range	[kPa (psi)]	41.4 (6), 268.9 (39) (b)		
Fuel Tani	k		·		
Capacity [refi	il L (gallons)]		78.0 (20.6 Gal) (a)		
Location (des	scribe)		Behind Rear Axle		
Attachment			Two Straps With Pin and Loop at Rear, Bolt at Front		
Material			Steel (Terne Plate)		
Filler	Location & mate	rial	Right Rear Quarter Panel; Steel		
pipe 	Connection to ta	ınk	Rubber Seal		
Fuelline (mat	terial)		Nylon		
Fuel hose (ma	aterial)		Nylon		
Return line (m			Nylon		
Vapor line (m	1		Nylon		
Extended	Opt., n.a.		N.A.		
range tank	Capacity [L (gall		N.A.		
	Location & mate	rial	N.A.		
	Attachment		N.A.		
	Opt., n.a.		N.A.		
Auxiliary	Capacity [L (gall		N.A.		
tank	Location & mate	rial	N.A.		
	Attachment	·····	N.A.		
	Selector switch or valve		N.A.		
	Separate fill		ln.A.		

- (a) Canada Uses Conventional 2V Carburetor System (79.5 21.0 Gal.)
- (b) Canada Mechanical, Left Side of Engine 44.8-55.2 (6.5-8.0)

Car Line	THUNDER	BIRD_			
Model Year	1985	Issued	9/84	Revised (•)	

METRIC (U.S. Customary)

Engine Description/Carb. Engine Code

2.3L/EFI TC (140 CID)

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

Induction typ	e: carburetor, fuel				
injection system, etc.			Electronic Fuel Injection		
Mtgr.			N.A.		
	Choke (type)		N.A.		
Carbure-	Idle spdrpm	Manual	N.A.		
tor	(spec. neutral or drive and		N.A.		
	propane if	Automatic	N.A.		
	used)		N.A.		
Idle A/F mix.			N.A.		
	Point of injection	n (no.)	Port Injection (Four)		
Fuel	Constant, pulse	, flow	Simultaneous Double Fire		
injection	Control (electro	nic, mech.)	Electronic		
_	System pressur	e [kPa (psi)]	268.9 (39.0 PSI) Above Intake Manifold Pressure		
Intake manife	old heat control (e:	xhaust	1200000		
or water ther	mostatic or fixed)		N.A		
Air cleaner	Standard		Dry, Remote Paper Element		
type	Opțional		N.A.		
Fuel	Type (elec. or m	ech.)	Electric (2)		
pump	Location (eng., tank)		Intank & Out of Tank (a)		
Pressure range [kPa (psi)]		[kPa (psi)]	37.9-44.8 (5.5-6.5)		
Fuel Tani	k				
Capacity [refi	ill L (gallons))		78.0 (20.6 Gal.)		
Location (des	scribe)		Behind Rear Axle		
Attachment			Two Straps Pin and Loop at Rear, Bolt at Front		
Material			Steel (Terne Plate)		
Filler	Location & mate	rial	R.H. Quarter Panel		
pipe	Connection to ta	ınk	Rubber Seal		
Fuel line (mat	terial)		Nylon		
Fuel hose (m	aterial)		N.A.		
Return line (material)			Nylon		
Vapor line (material)			Nylon		
	Opt., n.a.		N.A.		
Extended range	Capacity [L (gall	ons)]	N.A.		
tank	Location & mate	rial	N.A.		
Attachment			N.A.		
	Opt., n.a.		N.A.		
Capacity [L (gallons)]		ons)]	N.A.		

N.A.

N.A.

N.A.

N.A.

Auxiliary tank

Location & material

Selector switch or valve

Attachment

Separate fill

⁽a) Low Pressure in Tank and High Pressure Forward of Tank

Car Line	THUNDE	RBIRD				
Model Year	1985	Issued	9/84	_Revised (•)		

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

3.8L (232 CID)

Vehicle	Emission	Control

	T	Control	<u>. </u>	Walter Committee of the
	modification	jection, engin ns. other)	10	Vehicle & Engine Modifications, Exhaust Gas
	ļ		.	Recirculation, Air Injection
		Pump or pa	ulse	Vane
	A:_	Driven by		Poly-V-Belt
	Air Injection	Air distribut (head, mar		Intake Manifold, Cylinder Head Catalyst
		Point of en	try	Cylinder Head Exhaust Ports, Catalyst Mid-Bed
Exhaust	Exhaust	Type (control	rolled flow, e, other) -	Controlled Flow
mission Control	Gas Recircula-	Exhaust so	ource	Internal from Exhaust X-Over (Intake Manifold)
Control	tion	Point of ext (spacer, ca manifold, o	haust injection irburetor, ither)	Spacer
		Туре		TWC Toeboard + COC Single Brick In-Line
	1	Number of		Two
	Catalytic Converter	Location(s)		Underbody & Toe-Board (L.O.)
		Volume [L (in ³)]		Toe Board (2) x .69 (42); Underbody 1.3 (7.8)
		Substrate t	ype	Coated Ceramic Monolith
	Type (ventilates to atmosphere, induction system, other)		sphere,	
				Closed Induction System
rankcase mission	vacuum, ca	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
Control	Discharges (to intake manifold, other)		į	Carburetor
	Air inlet (bre	Air inlet (breather cap, other)		Carburetor Air Cleaner
vapora-	Vapor vente	ed to	Fuel tank	Externally Vented to Carbon Canister
ve mission	(crankcase, canister, oth	ner)	Carburetor	Internally Vented to Air Cleaner
ontrol	Vapor stora	ge provision		Carbon Canister
lectronic	Closed loop	(yes/no)		Yes
/stem	Open loop (Open loop (yes/no)		Yes

Engine - Exhaust System

Type (single, single with cross-over, dual, other) Muffler no. & type (reverse flow, straight thru, separate resonator)		Single with "Y" System
		One, Reverse Flow
Resonator r	no. & type	
	Branch o.d., wall thickness	
Exhaust pipe	Main o.d., wall thickness	
	Material	
Inter- mediate	o.d. & wall thickness	50.8 x 1.75 (2.00 x .069)
pipe	Material	Aluminized Steel
Tail pipe	o.d. & wall thickness	50.8 x 1.37 (2.00 x .054)
	Material	Aluminized Steel

Car Line	THUNDER	BIRD			
Model Year_	1985	Issued _	9/84	Revised (•)

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

5.0L (302 CID)

Vehicle	Emission	Control
TOILICIO	EIIII33IUII	COHECOL

-	Type (air injection, engine modifications, other)		Vehicle and Engine Modification, Exhaust Gas Recirculation, Air Injection (a)
		Pump or pulse	Vane
		Driven by	Belt
	Air Injection	Air distribution (head, manifold, e	Cylinder Head, Catalyst
		Point of entry	Cylinder Head Exhaust Ports, Catalyst Mid-Bed
xhaust	Exhaust	Type (controlled fi open orifice, other	iow.
mission ontrol	Gas Recircula-	Exhaust source	Internal Through Exhaust X-Over (Intake Manifold)
	tion	Point of exhaust is (spacer, carbureto manifold, other)	njection
		Туре	Monolithic TWC and COC
		Number of	Two
	Catalytic Converter	Location(s)	Underbody
		Volume [L (in ³)]	160 in. ³ Two Cans
		Substrate type	Coated Ceramic Monolith
	Type (ventilates to atmosphere, induction system, other)		
rankcase mission	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
ontrol	Discharges (to intake manifold, other)		Intake Manifold
	Air inlet (bre	ather cap, other)	Air Cleaner
apora-	Vapor vente		Carbon Canister
e nission	canister, oth		retor Carbon Canister
introl	Vapor stora	ge provision	Carbon Canister
ectronic	Closed loop	· · · · · · · · · · · · · · · · · · ·	Yes
stem	Open loop (yes/no)	Yes

Engine – Exhaust System

Type (single, single with cross-over, dual, other)		Single with "Y" Catalyst System			
Muffler no. straight thru	& type (reverse flow, , separate resonator)	One, Reverse Flow			
Resonator	no. & type	None			
	Branch o.d., wall thickness				
Exhaust pipe	Main o.d., wall thickness				
	Material				
Inter- mediate	o.d. & wall thickness	50.8 x 1.75 (2.00 x .069)			
pipe	Material	Aluminized Steel			
Tail pipe	o.d. & wall thickness	50.8 x 1.37 (2.00 x .054)			
	Material	Aluminized Steel			

(a) Components May Vary According to Engine Calibration

 Car Line
 THUNDERBIRD

 Model Year
 1985
 Issued
 9/84
 Revised (●)

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

2.3L/EFI TC (140 CID)

				(140 C1D)
Vehicle E	Emission (Control		
	Type (air in		ine	Electronic Fuel and Spark Control Plus
	modification	ns, other)		Exhaust Gas Recirculation
	Pump or		pulse	N.A.
		Driven by	,	N.A.
	Air Injection	Air distrib (head, m	oution anifold, etc.)	N.A.
		Point of e	entry	N.A.
Exhaust	Exhaust	Type (cor open orifi	ntrolled flow, ce, other)	Controlled Flow Tapered Stem
Emission Control	Gas Recircula-	Exhaust	source	Exhaust Manifold
Sonio	tion		exhaust injection carburetor, other)	Intake Manifold
		Туре		TWC + TWC Dual Brick Transverse
		Number of	of	One One
	Catalytic Converter	Location(s)	Underbody
		Volume [L (in ³)]	1.1 (66) + 1.1 (66)
		Substrate	type	Coated Ceramic Monolith
		Type (ventilates to atmosphere, induction system, other)		Closed Induction System
Crankcase Emission	Energy sou vacuum, ca	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
Control	Discharges (to intake manifold, other)			Intake Manifold
	Air inlet (bre	eather cap,	other)	Compressor Inlet Adaptor
Evapora- tive	Vapor vente (crankcase.		Fuel tank	Carbon Canister
Emission	canister, ot	her)	Carburetor	
Control	Vapor stora	 	n	Carbon Canister
Electronic system	Closed loop	,		Yes
-, -, -, -, -, -, -, -, -, -, -, -, -, -	Open loop ((yes/no)		Yes
Engine –	Exhaust :	System		
Type (single, dual, other)	, single with cr	oss-over,		Single
Muffler no. & straight thru,	type (reverse separate reso	flow, nator)		One, Reverse Flow
Resonator n	itor no. & type			N.A.
Exhaust	Branch o.d.	, wall thickr	ness	
pipe	Main o.d., v	vall thicknes	ss	
	Material			
Inter- mediate	o.d. & wall t	hickness		57.2 x 1.75 (2.25 x .069)
pipe	Material			Aluminized Steel
Tail	o.d. & wall t	thickness		57.2 x 1.37 (2.25 x .054)
pipe Material			Aluminized Steel	

 Car Line
 THUNDERBIRD

 Model Year
 1985
 Issued
 9/84
 Revised (●)

METRIC (U.S. Customary)

Engine Description/Carb. Engine Code	3.8L (232 CID)	5.0L (302 CID)	
Transmissions/Transaxie			
Manual 3-speed (std., opt., n.a.)	N.A.		_

	ssions/Tr	TIISAAIG		
	eed (std., opt.		N.A.	
Manual 4-speed (std., opt., n.a.)			N.A.	
Manual 5-speed (std., opt., n.a.)			N.A.	
	rdrive (std., op	t., n.a.)	N.A.	
	std., opt., n.a.)	<u> </u>	Standard	
Automatic o	verdrive (std.,	opt., n.a.)	Optional Optional	Standard
Manual [*]	Transmiss	lon/Transaxle	(Not Available)	
Number of fo	orward speeds			
	In first			
	In second			
	In third	<u> </u>		
ransmis-	In fourth			
ion ratios	In fifth	·		
	In overdrive)		
	In reverse			
	s meshing (sp	ecify gears)		
Shift lever lo				
	Capacity [t			
ubricant	Type recon			
	SAE vis-	Summer		
	cosity number	Winter	i	
	.,	Code con a cold	· · · · · · · · · · · · · · · · · · ·	
		Extreme cold		
Clutch (N		Extreme cold	(Not Available)	
		ansmission)	(Not Available)	
lake, type, i	Manual Tra	ensmission)	(Not Available)	
flake, type, i	Manual Tra	ensmission)	(Not Available)	
fake, type, i ype pressur otal spring l	Manual Tra	ensmission)	(Not Available)	
Make, type, of the system of t	Manual Tra engagement (or re plate spring load [N (lb.)]	ensmission)	(Not Available)	
fake, type, i ype pressur otal spring l	Manual Tra engagement (ore plate spring load [N (lb.)] driven discs	describe)	(Not Available)	
Make, type, of the system of t	wanuat Tra engagement (d re plate spring load [N (lb.)] driven discs	describe) s	(Not Available)	
fake, type, i ype pressur otal spring l	engagement (de re plate spring load [N (lb.)] driven discs Material Manufactur	describe) s	(Not Available)	
take, type, of the spring to t	engagement (dere plate spring load [N (lb.)] driven discs Material Manufactur Part numbe	describe) s	(Not Available)	
take, type, of the spring to t	engagement (dere plate spring load [N (lb.)] driven discs Material Manufactur Part number Rivets/plate	ansmission) describe) s	(Not Available)	
take, type, of the spring to t	engagement (de re plate spring load [N (lb.)] driven discs Material Manufactur Part number Rivets/plate Rivet size Outside & in	ansmission) describe) s	(Not Available)	
Make, type, of type pressure of the spring o	engagement (de re plate spring load [N (lb.)] driven discs Material Manufactur Part number Rivets/plate Rivet size Outside & in	ansmission) describe) s er r rside dia.	(Not Available)	
Make, type, of the following t	engagement (dere plate spring load [N (lb.)] driven discs Material Manufactur Part numbe Rivets/plate Rivet size Outside & ir	describe) s er r nside dia. ea [cm²(in.²)]	(Not Available)	
Make, type, of the following t	engagement (core plate spring load [N (lb.)] driven discs Material Manufactur Part numbe Rivets/plate Rivet size Outside & in Total eff. ar Thickness Engagement	describe) s er r nside dia. ea [cm²(in.²)]	(Not Available)	

Car Line	THUNDERBIR	RD			
Model Year	1985	Issued	9/84	Revised (•)	

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

2.3L/EFI TC (140 CID)

Transmi	SS	ions/	Trar	ısaxle	į
---------	----	-------	------	--------	---

Manual 3-speed (std., opt., n.a.)	N.A.
Manual 4-speed (std., opt., n.a.)	N.A.
Manual 5-speed (std., opt., n.a.)	N.A.
Manual overdrive (std., opt., n.a.)	Standard (5-Speed)
Automatic (std., opt., n.a.)	_ Optional
Automatic overdrive (std., opt., n.a.)	N.A.

Manual '	Transmis:	sion/Transaxie	(a)
Number of fo	orward speeds		Five
	In first		4.03:1
	In second		2.37:1
	In third		1.49:1
Transmis-	In fourth		1.00:1
sion ratios	In fifth		.81:1
	In overdriv	е	.81:1
	In reverse		3.76
Synchronou	s meshing (sp	ecify gears)	All Forward Gears
Shift lever lo	cation		Floor
	Capacity [I	_ (pt.)]	2.6 (5.6)
	Type recor	mmended	ESP-M2C138-CJ ATF (DEXRON II FOR SERVICE)
Lubricant	ubricant SAE vis-	Summer	
	cosity	Winter	
	number	Extreme cold	

Clutch (Manual Transmission)

Make, type,	engagement (describe)	Single Disc, Dry Plate
Type pressu	re plate springs	Belleville Spring
Total spring	load [N (lb.)]	6875 (1546)
No. of clutcl	n driven discs	One
	Material	Woven Non-Asbestos
	Manufacturer	Valeo
	Part number	F-201
	Rivets/plate	16
Clutch	Rivet size	4.1 x 4.9 (.161 x .193)
facing	Outside & inside dia.	228.6 x 155 (9.00 x 6.10)
	Total eff. area [cm²(in.²)]	443,8 (68.8)
	Thickness	3,2 (.13)
	Engagement cushion method	One Piece Riveted Hybrid
Release to the state of lubrication to the state of lubric		
Torsional damping	Method: springs, friction material	Steel Coil Springs

(a) 3.45 Axle Ratio

Car Line	THUNDER	RBIRD		
Model Year_	1985	Issued 9/84	Revised (•)	

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

3.8L/CFI	3.8L/2V (a)
(232 CID)	·

Automatic Transmission/Transaxle

Trade name Type and special features (describe)		Automatic Overdrive (AOD)	Select Shift (C-5 LTC)
		Torque Converter, Planetary Gear Set	Lock-Up Torque Converter, Planetary Gear Set
Selector	Location	Column	Column (Floor Opt.)
	Ltr./No. designation	P R N (1) D 1	(
	R	2.00:1	2.19:1
Gear	D	0.67:1	
ratios	L ₃	1.00:1	
	L ₂	1.47:1	1.46:1
	L ₁	2.40:1	2.46:1
Max. upshift	speed - drive range [km/h (mph)]	126 (78)	
Max. kickdown speed - drive range [km/h (mph)]		86.5 (53.7)	109 (68)
Min. overdri	ve speed [km/h (mph)]	68.5 (42.6)	
	Number of elements	Three	
Torque	Max. ratio at stall	2.53	2.3:1
converter	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	305 (12)	
Lubricant	Capacity [refill L (pt.)]	11.7 (24.6)	10.4 (22)
	Type Recommended	ESP-M2C 138-CJ(DEXRON II For Se	
Oil cooler (s external, air,	td., opt., NA, internal, liquid)	Standard, External, Air	

Axle or Front Wheel Drive Unit

Type (front, rear)			Rear
Description			Semi-Floating Type With Cast Center and Overhung Pinion
Limited slip differential (type)		oe)	Plate Clutch Type
Drive pinion	offset		25.4 (1.0)
Drive pinion (type)			Hypoid
No. of differential pinions			2 Pinion
inion / diffe	rential adjustr	ment (shim, other)	Shim
Pinion / diffe	rential bearing	g adjustment (shim, other)	Collapsible Spacer
Oriving when	el bearing (typ	e)	Straight Roller
	Capacity [I	_ (pt.)]	1.5 (3.25); 1.6 (3.50) Traction-Lok
Lubricant	Type recor	nmended	ESP-M2C154-A
	SAE vis-	Summer	SAE 90
	cosity	Winter	SAE 90
		Extreme cold	SAE 90

Axle or Transaxle Ratio and Tool Combinations (See 'Power Teams' for axle ratio usage.)

Axle ratio (or overall top gear ratio)		3.08:1	2.73:1	3.45:1	3,27:1
No. of teeth	Pinion	12	15	11	11
	Ring gear or gear	37	41	<u> </u>	36
Ring gear o.d.		190.5(7.5)	190.5(7.5)	190.5(7.5)	190.5(7.5)
Transaxle	Transfer gear ratio			15015(115)	150.5(7.5)
	Final drive ratio				

Car Line	THUNDERBIR	RD			
Model Year	1985	Issued _	9/84	Revised (•)	

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

5.0L (302 CID)	2.3L/EFI TC (140 CID)

Automatic Transmission/Transaxie

Trade name) <u> </u>	Automatic Overdrive (AOD)	Select Shift (C3)	
Type and sp	pecial features (describe)	Torque Converter, Planetary Gear Set		
Selector	Location	Column	Floor Shift	
	Ltr./No. designation	PRNDD1	P R N D 2 1	
	R	2.00:1	2.11:1	
Gear	D	0.67:1	1.00:1	
ratios	L ₃	1.00:1		
	L ₂	1.47:1	1.47:1	
	L ₁	2.40:1	2.47:1	
Max. upshift	t speed - drive range [km/h (mph)]	103.1 (64.1)	122 (75)	
Max. kickdo	wn speed - drive range [km/h (mph)]	88.2 (54.8)	113 (70)	
Min. overdriv	ve speed [km/h (mph)]	62.3 (38.7)		
	Number of elements	Three		
Torque	Max. ratio at stall	2.30	2,5:1	
converter	Type of cooling (air, liquid)	Liquid Passed Through a Heat	Exchanger in Radiator	
	Nominal diameter	305 (12)	260.4 (10.3)	
Lubricant	Capacity [refill L (pt.)]	11.7 (24.6)	7.6 (16) Approx.	
	Type Recommended	ESP-M2C 138-CJ (DEXRON II For		
Oil cooler (si external, air,	itd., opt., NA, internal, , liquid)			

Axle or Front Wheel Drive Unit

Type (front, rear)			Rear
Description			Semi-Floating Type with Cast Center and Overhung Pinion
Limited slip differential (type))е)	Plate Clutch Type
Drive pinion	offset		25.4 (1.0)
Drive pinion	(type)		Hypoid
No. of differential pinions			2 Pinion
Pinion / diffe	erential adjusti	nent (shim, other)	Shim
Pinion / diffe	rential bearing	g adjustment (shim, other)	Collapsible Spacer
Driving whe	el bearing (typ	e)	Straight Roller
	Capacity [1	. (pt.)]	1.5 (3.25); 1.6 (3.50) Traction-Lok
	Type recommended		ESP-M2C154-A
Lubricant	SAE vis-	Summer	SAE 90
	cosity number	Winter	SAE 90
		Extreme cold	SAE 90

Axle or Transaxle Ratio and Tool Combinations (See 'Power Teams' for axle ratio usage.) Axle ratio (or overall too gear ratio)

No. of teeth	Pinion		
	Ring gear or gear		
Ring gear o.	d.	^	
Transaxle	Transfer gear ratio	See Page 3	
	Final drive ratio		<u> </u>

Car LineTHUNDERBIR	D	
Model Year 1985	Issued _ 9/84	Revised (•)

METRIC (U.S. Customary)

Engine Description/Cart	١.
Engine Code	

3.8L 5.0L (232 CID) (302 CID)

Propeller Shaft - Conventional Drive

Type (straig	ht tube, tube-in-	tube,		Straight Tube	Swaged Tube With
nternal-external damper, etc.)			Internal Tuned Damper	Internal Tuned Damper	
	Manual 3-speed trans.			N.A.	
Outer	Manual 4-sp	Manual 4-speed trans. Manual 5-speed trans.		N.A.	
am. x ingth* x all iick- ess	Manual 5-sp			N.A.	
	Overdrive			69.9 X 1273.6 X 1.65 (2.75 X 50.14 X .065)	N.A.
	Automatic transmission			69.9 X 1256.5 X 1.65 (2.75 X 49.47 X .065)	76.20 X 1248.2 X 1.65 (3.0 X 49.14 X 0.065)
iter- iediate	Type (plain, anti-friction)		n)	N.A.	
earing	Lubrication (fitting, prepack)		pack)	N.A.	
	Туре			Tuned Damper w/Overdrive Plain Slip Yoke w/Automatic	Tuned Damper
lip oke	Number of teeth			28	- Garage
	Spline o.d.			30,988 (1,220) Maximum	
	Make and mfg. no. Front		Front	Ford 1310 Ford 1310	
	Numberuse	ed	1	Two	
Universal	Type (ball ar	Type (ball and trunnion, cross)		Cross	
ints	Rear attach	(u-bolt, clar	mp, etc.)	12mm Bolts With Loctite	
	Bearing	Type (p	olain, ction)		
		Lubrication (fitting, prepack)		Prepack	
rive taken ti ms or sprin	hrough (torque l igs)	tube,		Control Arms	
orque taker rms or sprin	n through (torqu	e tube,		Control Arms	

^{*} Centerline to centerline of universal joints, or to centerline of rear attachment.

CarLineTHUNDERBIR	D			
Model Year1985	Issued	9/84	Revised (•)	

METRIC (U.S. Customary)

Engine Description/Carb. Engine Code

2.3L EFI TC (140 CID)

Propeller Shaft - Conventional Drive

Propelle	or Shaft – C	onvent	ional Driv	
Type (straig internal-ext	Type (straight tube, tube-in-tube, internal-external damper, etc.)			Swaged Tube With Internal Tuned Damper
	Manual 3-speed trans.			N.A.
Outer	Manuai 4-speed trans.			N.A.
diam. x length* x wall thick- ness	Manual 5-speed trans.			88.9 X 1231.6 X 1.65 (3.5 X 48.49 X .065)
	Overdrive			N.A.
	Automatic transmission			88.9 X 1297.7 X 1.65 (3.5 X 51.09 X .065) (a)
Inter- mediate	Type (plain, anti-friction)		n)	N.A.
bearing	Lubrication (fitting, prepack)			N.A.
	Туре			Tuned Damper
Slip yoke	Number of teeth			28
	Spline o.d.			30,988 (1,220) Maximum
	Make and mfg. no.		Front Rear	Ford 1310
	Number use	d	near	Ford 1310
Universal	Type (ball and trunnion, cross)		, cross)	Cross
joints	Rear attach	(u-bolt, cla	mp, etc.)	12mm Bolts With Loctite
	Bearing	Type (plain, anti-friction)		Needle Roller
		Lubrication (fitting, prepack)		Prepack
Drive taken to arms or sprin	Drive taken through (torque tube, arms or springs)			Control Arms
Torque taken through (torque tube, arms or springs)			Control Arms	

^{*} Centerline to centerline of universal joints, or to centerline of rear attachment.

⁽a) 25 Tooth S/Y, Spline O.D. 27.87 (1.097) Maximum

Car Line THUND!	<u>ERBIRD</u>			
Model Year 1985	Issued _	9/84	Revised (•)	

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement			ALL MODELS
Suspen	sion – Gene	eral	
Car	Std./opt./n.a.		N.A.
leveling	Type (air, hy	d., etc.)	
	Manual/auto	. controlled	
Provision fo	or brake dip contr	rol	Front Springs Mounted on Lower Control Arms
Provision to	or accl. squat con	itrol	Rear Suspension Control Arm Geometry
Provisions t	for car jacking		Notched Rocker Panel Positions, Front and Rear
Shock	Туре		(a) & (b) See Page 11A
absorber (front &	Make		Motorcraft
rear)	Piston diame	eter	34.8 (1.37) Front; 25.4 (1.0) Rear
	Rod diamete	r	22 (.90) Front, 12.5 (.50) Rear
Suspens	sion <u> </u>	t	
Type and de	escription		Hybrid McPherson Strut with Spring Mounted
	<u></u>		on Lower Control Arm
Drive and to	orque taken throu	igh	
Travel	Full jounce	 	93.5 (3.68)
	Full rebound		84.5 (3.33)
	-	af, other) & material	Coil, SAE-5160-H Steel
Spring	Insulators (type & material) Size (coil design height & i.d., bar length x dia.)		254.0 x 89.0 (10.0 x 3.50), 3158 x 15.55 (124.3 x .612) 5.0L - 63.0 (360)
	Spring rate [N	V/mm (lb./in.)]	Std 6-Cyl 59.5 (340); Hvy Duty 74.5(425); 8-Cyl Std 63.0 (360
	Rate at whee	l [N/mm (lb./in.)]	18.95 (108.2)
Stabilizer	Type (link, lin	kless, frameless)	Link, Teflon Lined Rubber Side Rail Insulator
	Material & ba	r diameter	SAE 1090 Std 27.7 (1.09); Other Bars Available:
Suspens	sion – Rear		28.5 (1.12), 33.0 (1.30)
Type and de	escription		Four Bar Link with Coil Spring on Lower Arm
Drive and to	rque taken throu	gh	Upper and Lower Control Arms
Travel	Full jounce		112.3 (4.41)
	Full rebound		104.4 (4.12)
	Type (coil, lea	af, other) & material	Coil, SAE-5160-H
Spring		width, coil design bar length & dia.)	229 x 102 (9.01 x 4.02), 3202 x 14.3 (126 x 0.563)
	Spring rate [N	i/mm (lb./in.)]	35 (200) Std. and Handling; 45 (257) Hyy. Duty
	Rate at wheel	[N/mm (lb./in.)]	18.8 (107.5) Std. and Handling
•	Insulators (typ	pe & material)	Rubber
	1 " · · · ·	o. of leaves	None
		nackle (comp. or tens.)	None
Stabilizer		kless, frameless)	Linkless - (Handling Options) (b) See Page 11A
T	Material & bar	diameter	Steel SAE 5160-21 (0.82) Handling: 14 mm SAE 1090 Base
Track bar (ty	pe)		None

 Car Line
 THUNDERBIRD

 Model Year
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METRIC (U.S. Customary)
SUPPLEMENTAL PAGE

Suspension (Cont '	'd.)	:
--------------	--------	------	---

- (a) Direct, double acting nitrogen gas pressurized hydraulic front struts and rear shocks.
- (b) Quadra-Shock Suspension (Turbo Coupe): Two additional freon cell hydraulic axle absorbers are mounted horizontally between the axle and frame to control axle rotation and improve handling.

Car Line	THUNDERBIRD					
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METRIC (U.S. Customary)

Body 1	Гуре	And/C)r
Engine	a Dis	place	ment

ALL MODELS

Brakes - Service

- Servi	Ce			
1				
	<u> </u>			Four Wheel Hydraulic Actuated System
Brake type Front (disc or drum)		ım)	Disc	
n.a.)		Rear (disc or dru	m)	Drum
ing (std., c	pt., n.a.)			Standard
Type	Invanation	dalay matadas et		
		, delay, metering, of	ner)	Pressure Differential and Proportioning (Rear)
				Standard
				Integral Single Diaphragm Vacuum
		tc.)		
servoir (vo	olume in.3)			-
imp-type (state)	elec, gear o	driven, belt driven,		
evice type	(std., opt.,	n.a) (F/R)		N.A.
rea [cm²(ir	1. ²)]*			Front: 212 (32.9), Rear: 302 (46.9)
g area [cn	² (in. ²)]**(F/	R)		Front: 231 (35.8), Rear: 332 (51.4)
ı [cm²(in.²))*** (F/R)			Front: 1140(176.6), Rear: 638 (99.0)/647 (110.0) (a)
Outer	working dia	meter	F/R	255.5 (10.06)
Inner	working dia	ımeter	F/R	158 (6,22)
Thick	ness		F/R	22.1 (0.87)
Mater	ial & type (v	vented/solid)	F/R	Cast Iron Vented
Diame	eter & width	·	F/R	228.6 (9.0)/255.0 (10.0) (a)
Туре	and materia	ai .	F/R	Cast Iron Composite
der bore				19,05
nder	Bore/stro	ke	F/R	21 (0.83) Bore x 37.34 (1.47) Stroke
atio			_	3,5:1
re at 445	N(100 lb.) p	oedal load [kPa (psi)]	
ance			(F/R)	0.25 (.010) Front; 0.38 (.015) Rear
	Bonded o	r riveted (rivets/seg	.)	Riveted
1	Rivet size			Inboard 4.6x10.2 (.18x0.4); Outboard 4.6x7.5 (.18x.295
	Manufact	urer		Bendix
Front	Lining cod	de		BX-XO-EE
wheel	Material			Semi-Metallic
	P	rimary or out-board		$155 \times 44 \times 10.2 \ (6.12 \times 1.75 \times 0.4)$
	Size S	econdary or in-boar	d	119 x 44 x 11.2 (4.7 x 1.75 x 0.4)
	Shoe thic	kness (no lining)		5.1 (0.20)
	Bonded o	r riveted (rivets/seg	.)	Riveted PRI. 8 SEC. 10
Rear	Manufacti	urer		Bendix FMD: 3198/3199
wheel	Lining cod	de		BX-RY-FE, BX-PM-FE
	Material			Molded Asbestos
	···· Pr	rimary or out-board		155 x 44 x 4.7 (6.12 x 1.75 x .187)
	Size Se	econdary or in-board	3	219 x 44 x 6.2 (8.63 x 1.75 x .245)
	Shoe thick	kness (no lining)		1.709 (.0673)
	n.a.) Type te (std., or te (std., or te (std., or te (remote te (std.) te (state) te (std., or te (std., or	Type (proportion to (std., opt., n.a.) Type (proportion to (std., opt., n.a.) the (remote, integral, volume in.3) Type (elec, gear of column in.3) the (remote, integral, volume in.3) Thickness Material & type (volume in.3) Thickness Material &	In.a.) Front (disc or dru Rear (disc, opt., n.a.) Rear (remote, integral, vac., hyd., etc.) Rear (cinline, pump, etc.) Rear (cinline, pump, etc.) Rear (disc, opt., n.a.) Rear (disc, or dru Rear (disc or dru Rear (disc, pt.) Rear (disc, pt.	Front (disc or drum) Rear (all or drum) Rear (disc or drue) Rear (

^{*}Excludes rivet holes, grooves, chamfers, etc.

^{**}Includes rivet holes, grooves, chamfers, etc.

^{***}Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Disc brake: Square of Outer Working Dia.minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

^{****}Size for drum brakes includes length x width x thickness.

(a) With Optional 5.0L Engine-Effective Approximately February, 1985

Car Line _	THUNDERBIR	D		
Model Year	1985	Issued	9/84	Revised (•)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	ALL MODELS

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P205/70R14
	Type (bias, radia	al, etc.)	Steel Belted Radial
	Inflation pres- sure (cold) for recommended	Front [kPa (psi)]	207 (30)
	max. vehicle load	Rear [kPa (psi)]	207 (30)
	Rev./mile-at 70 km/h (45 mph)		815/827 Average
	Type & material		Stamped Steel Disc
	Rim (size & flang	ge type)	14 x 5.5 JJ
Wheels	Wheel offset		28.4 (1.12)
777,00.0		Type (bolt or stud)	Stud
	Attachment	Circle diameter	107.9 (4.25)
		Number & size	Four $-\frac{1}{2} - 20$
Spare	Tire and wheel (so other describe)	same, if	T125/70D15 BSW 413.7 kPa 60 PSI with 15 x 4 Wheel (Steel) High Pressure Mini-Spare Temporal Spare
	Storage position & location (describe)		Flat Position, Deep Well in Trunk

Tires And Wheels (Optional)

Size (load range, ply)	P215/70R14
Type (bias, radial, etc.)	Steel Belted Radial
Wheel (type & material)	Stamped Steel Disc
Rim (size, flange type and offset)	14 x 5.5 with 28.4 (1.12) Offset
Size (load range, ply)	P205/70R14 or P215/70HR14(N.A. Turbo Coupe)
Type (bias, radial, etc.)	Steel Belted Radial
Wheel (type & material)	Polycast
Rim (size, flange type and offset)	14 x 5.5 28.4 (1.12) Offset
Size (load range, ply)	P215/70R14
Type (bias, radial, etc.)	Steel Belted Radial
Wheel (type & material)	"Swiss Cheese" Alloy
Rim (size, flange type and offset)	14 x 5.5 with 2.84 (1.12) Offset
Size (load range, ply)	P225/60VR15 (a)
Type (bias, radial, etc.)	Steel Belted Radial
Wheel (type & material)	Cast Aluminum
Rim (size, flange type and offset)	15 x 7.0
Spare tire and wheel	Tire Matching Other Four Tires with 14 x 5.5 Steel Wheel
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position	(Conventional Spare) Flat Position, Deep Well in Trunk

Brakes - Parking

Type of contr	ol	Foot Operated - Automatic Release (ELAN Model)
Location of co	ontrol	LH Side Under Inst. Panel
Operates on		Rear Service Brakes
	Type (internal or external)	
If separate from service brakes	Drum diameter	
	Lining size (length x width x thickness)	

(a) Turbo Coupe

Car Line	THUNDER	BIRD			
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METRIC (U.S. Customary)

B. J. B	
Body Type And/Or	
Engine Displacement	ALL MODELS
l	

Steering					
Manual (std.,	opt., n.a.)			N.A.	
Power (std.,	Power (std., opt., n.a.)			Standard	
Adjustable Type and description steering wheel		scription	Tilt - 5 Positions		
(tilt, swing, ot	her)	(Std., opt., n.a.)		Optional	
		Manual		N.A.	
Wheel diame	ter 	Power		368(14.5)W/6.4(.25)Offset Std;381(15.0)W/6.4(.25)Off.Opt.	
	Outside	Wall to wall (I.	&r.)		
Turning diameter	front	Curb to curb (l. & r.)		12.01_(39.4)	
m (ft.)	Inside	Wall to wall (i.	. & r.)		
	rear	Curb to curb (l. & r.)		
Scrub Radius	3			2.85 (0.112)	
	1	Туре		N.A.	
	Gear	Make			
Manual		Ratios	Gear		
			Overall		
	No. wheel turns (stop to stop)		top)		
	Type (coaxial, linkage, etc.)		:.)	Integral Rack and Pinion	
	Make			Gear-(Ford), Pump-(Ford); Fluid ESP-M2C138-CJ	
Dawar	1	Туре		Rack and Pinion (Variable Ratio) (a)	
Power	Gear	Ratios	*	8.580/mm of Rack Travel on Center, 7.910/mm at Stops (a)	
			Overall	20.00:1 on Center; 15.99:1 at Stops (a)	
	Pump (drive)			Belt Off Crankshaft Pulley	
	No. wheel	turns (stop to st	op)	3.05 (a)	
	Туре			Rack & Pinion (Rod & Ball Joint Directly Attached to Gear)	
Linkage	Location (front or rear of wheels, other)			Front of Wheels	
	Drag links	(trans. or longit	.)	None	
	Tie rods (d	one or two)		Two (Integral With Gear)	
	Inclination	at camber (deg	J.)	15.7	
Steering	. .	Upper		Prelubricated Ball Joint Spring Loaded	
axis	Bearings (type)	Lower		Prelubricated Ball Joint	
Thrust			Teflon Coated Fabric Wash in Lower Ball Joint		
Steering spin	dle & joint typ	00		Internal With Wheel Spindle Ball Socket Joints	
	Diameter	Inner bearing		37.98 (1.4954) I.D.	
Wheel spindle		Outer bearing]	22.1 (0.87) I.D.	
	Thread (si	 		13/16-20 INEF 2A R.H. Thread	
	Bearing (t	ýpe)	[Tapered Roller	

(a) Handling Suspension:

Gear Type - Constant Ratio Rack Speed - 6.44 deg/mm Overall Ratio - 15.00:1 on Center, 13.00:1 at Stops No. Wheel Turns - 2.46 (Stop to Stop)

Rack Speed

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METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

ALL MODELS

Wheel Alignment

	Service	Caster (deg.)	$+1.0^{\circ}+0.75^{\circ}$ (a)
	checking	Camber (deg.)	+ 0.25° + 0.75° (b)
		Toe-in [outside track-mm (in.)]	$5.0 \pm 3.0 \ (0.18 \pm 0.12) \ (c)$
Front	Service	Caster	$+1.0 \pm 0.75$ (a)
wheel at curb mass	reset*	Camber	+ 0.25 + 0.75 (b)
(wt.)		Toe-in	$5.0 \pm 3.0 \ (0.18 \pm 0.12)$
	Periodic	Caster	+ 1.00 + 2.00
	M.V. in- spection	Camber	+ 0.250 + 2.00
		Toe-in	$5.0 \pm 6 (0.18 + 0.25)$
_	Service	Camber (deg.)	N.A.
Rear	checking	Toe-in (outside track-mm (in.))	N.A.
wheel at curb mass	Service	Camber	N.A.
(wt.)	reset*	Toe-in	N.A.
	Periodic M.V. in-	Camber	N.A.
	spection	Toe-in	N.A.

^{*} Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

Speed-	Туре	Pointer Type (Std.); Electronic Digital (Opt.)		
ometer	Trip odometer (std., opt., n.a.)	Standard		
EGR mainten	ance indicator			
Charge	Туре	Warning Light - (Std.)		
indicator	Warning device			
Temperature	Туре	Warning Light - (Std.)		
indicator	Warning device	Combined Engine Indicator Lamp		
Oil pressure	Туре	Warning Light - (Std.)		
indicator	Warning device	Combined Engine Indicator Lamp		
Fuel	Туре	450 Pointer Type Gauge (Std.); Electronic Analog (Opt.)		
indicator	Warning device	, , , , , , , , , , , , , , , , , , ,		
	Type (standard)	Two Speed Electric Wipe (Column Mounted)		
Wind- shield	Type (optional)	Interval Wipe (Column Mounted)		
wiper	Blade length	45.72 (18.0)		
	Swept area [cm²(in.²)]	5314.3 (823.7)		
Wind-	Type (standard)	Electric Pump (Impeller Type) Fluidic Spray		
shield washer	Type (optional)	None		
	Fluid level indicator	Warning Light - Opt.		
Horn	Туре	Air Electric		
	Number used	Two - 1 Lo-Pitch, 1 Hi-Pitch		
Other	See Page 15A			

⁽a) Max. side to side difference not to exceed \pm 0.75° (b) Max. camber side to side difference (left/right) must be within \pm 0.75° (c) Steering wheel must be within \pm 10° of straight ahead position after toe setting

 Car Line
 THUNDERBIRD

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METRIC (U.S. Customary)
SUPPLEMENTAL PAGE

Electrical - Instruments and Equipment (Cont'd.):

- . Brake System Warning Light
- Emergency Flashers
- . Directional Turn Signal Lights
- . Hi-Beam Indicator Light
- . Fasten Seat Belts Warning Light
- . Low Oil Level Indicator Light
- . Illuminated Entry System
- . Cornering Lamps
- . Lamp Outage Module
- . Turbo Light (Standard) w/2.3L TC Engine
- . Overboost Light (Standard) w/2.3L TC Engine

Car Line THUNDERBIRD

Model Year 1985 Issued 9/84 Revised (•)

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

3.8L	5.0L	
(232 CID)	(302 CID)	

Electrical - Supply System

	Make	Motorcraft		
	Model, std., (opt.)	Standard		
	Voltage	12 Volt		
Battery	Amps at 0°F cold crank	380	450	
	Minutes-reserve capacity	75	90	
	Amp/hrs 20 hr. rate	45	54	
	Location	Right Front Engine Compartment		
0	Type and rating 10300	E25F-BA (60 Amp)	E1ZF-FA (60 Amp)	
Generator or alternator	Ratio (alt. crank/rev.)	3.36:1	3,55:1	
	Optional (type & rating)	E2BF-AA (65 Amp w/AC)	N.A.	
Regulator	tor Type 10316 Electronic Integral with Generator		tor	

Electrical - Starting System

Start, motor	Current drain at 0°F	260-285 Amps	290-315 Amps
	Engagement type	Positive	
Motor drive	Pinion engages from (front, rear)	Front	

Electrical – Ignition System

	Convention	nal (std., opt., n.a.)	N.A.	
Туре	Electronic (std., opt., n.a.)		Standard	
	Other (spe	ecify)	N.A.	
	Make		Motorcraft	
Coil	Model	12029	E3EF-AA	E4SF-AC
	Current	Engine stopped – A	6.5	5.0
		Engine idling - A	3.2	2.5
	Make		Motorcraft	
	Model		AWSF-54	ASF-52
Spark	Thread (mm)		14	
Spark blug	Tightening torque [N-m (lb., ft.)]		9-16 (7-12)	5-10
	Gap		1.12 (0.044)	1.27 (0.050)
	Number per cylinder		One	
Distributor Make			Motorcraft	
	Model		Universal	

Electrical – Suppression

Locations & type	Capacitor in Alternator, Resistor Spark Plugs, Resistance Ignition Wire, Ground Cable - Engine to Dash, Ground Strap on EEC Equipped Vehicles. Hood Bond, Ground Strap - Premium Sound Amp to Radio.
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Car LineTHUNDERB	IRD	·
Model Year_1985	Issued9/84	Revised (•)

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

2.3L/EFI TC (140 CID)

Electrical – Supply System

	Make	Motorcraft
	Model, std., (opt.)	Standard
	Voltage	12 Volt
Battery	Amps at 0°F cold crank	450 M/T, 475 A/T
·	Minutes-reserve capacity	90 M/T, 120 A/T
	Amp/hrs 20 hr. rate	54 M/T, 71 A/T
	Location	Right Front Engine Compartment
Generator	Type and rating 10300	E1ZF-BA (60 Amp)
or alternator	Ratio (alt. crank/rev.)	2.42:1
	Optional (type & rating)	E2BF-AA (65 Amp w/AC)
Regulator	Type 10316	Electronic Integral with Generator

Electrical - Starting System

Start, motor	Current drain at 0°F	260-285 Amps
	Engagement type	Positive
Motor drive	Pinion engages from (front, rear)	Front

Electrical – Ignition System

	Conventional (std., opt., n.a.)		N.A.
Туре	Electronic (std., opt., n.a.)		Standard
	Other (specify)		N.A.
	Make		Motorcraft
Coil	Model	12029	E3EF-AA
	Current	Engine stopped - A	6,5
		Engine idling - A	3.2
	Make		Motorcraft
	Model		AWSF-32C
Spark plug	Thread (mm)		14
plug	Tightening torque [N-m (lb., ft.)]		7-14 (5-10)
	Gap		0.86 (0.034)
	Number per cylinder		One
Distributor	Make		Motorcraft
	Model		Universal

Electrical - Suppression

Locations & type	Capacitor in Alternator, Resistor Spark Plugs, Resistance Ignition Wire, Ground Cable - Engine to Dash, Ground Strap on EEC Equipped Vehicles.

Car Line	THUNDERB	IRD				
Model Year	1985	Issued	9/84	Revised (•)		

METRIC (U.S. Customary)

Body Type			ALL MODELS			
						
Body - M	liscellaneous	Information				
Type of finish	(lacquer, enamel,	other)	Acrylic Enamel for Non-Metallic Colors (a)			
	Hinge location (fr	ont, rear)	Rear			
Hood	Type (counterbal	ance, prop)	Counterbalance			
	Release control (internal, external)	Internal, Secondary External - Remote Cable			
Trunk	Type (counterbal		Counterbalance			
lid		ontrol (elec., mech	- MICCLIE (OPEROIMI)			
Hatch- back lid	Type (counterbalance, other)		N.A.			
Dack III	Internal release control (elec., mech., n.a.)		111621			
Bumper front		ass, kg (weight, lb	7.62			
		aterial & mass, kg ass, kg (weight, lb:	RETHIOTICE DENTING TARCIA HOMA 7.70 BLEET, 2717 BD			
Bumper rear		aterial & mass, kg	Polyurethane Fascia - 8.0 Lb			
		Front	Reinforced Behind Fascia - HSLA 950 Steel, 27.02 Lb Latch Operating Pivoting - Option			
friction, pivot,	control (crank, power)	Rear	None			
		Front	Deep Polyurethane Foam on Flat Wire Grid Susp.by Coil Spr			
Seat cushion (e.g., 60/40, it	type oucket, bench,	Rear	Integral Frame & Polyurethane Foam Pad-Sprg. Elements			
wire, foam et		3rd seat	None			
		Front	Full Polyurethane Foam Pad & Steel Stamped Frame			
	oucket, bench,	Rear	Integral Steel Frame & Polyurethane Foam Pad			
wire, foam et	c.)	3rd seat	None			
Vehicle ident	ification no. location)	Attached to Cowl Outer Near the Windshield - L.H.			
	(-) D-1					
Frame	(a) Poly	ester bas	Coat/Acrylic Clear Coat for Metallic Colors			
Type and description (separate frame, unitized frame, partially-unitized frame)		rame, irame)	Unitized Construction (Bolt-On #2 Crossmember)			
Glass	<u> </u>					
De ablicator ata		1				
Backlight slop	pe angle (deg.)	H121	63.10			
Windshield sl	ope angle (deg.)	H122	59.80			
Tumble-Home	e (deg.)	W122	24.8°			
Windshield gl surface area	ass exposed [cm²(in.²)]	S1	7397.8 (1146.6)			
Side glass ex area [cm²(in.	posed surface 2)] - total 2-sides	S2	7940.4 (1231.0)			
Backlight glas surface area	ss exposed [cm²(in.²)]	S3	7744.8 (1200.4)			
Total glass ex area [cm²(in.	(posed surface	S4	23083.0 (3578.0)			
Windshield gl	ass (type)		Laminated			
Side glass (ty	pe)		Tempered			
Backlight glas	ss (type)		Tempered			
MVMA-C-85	5		Page 17			

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

Car Line	THUNDERBI	RD_			
Model Year	1985	Issued	9/84	Revised (•)	

Body Type		ALL MODELS
Restrain	t System	
Active	Standard/optional	Deluxe Color-Keyed Seat Belts are Provided at Five Seating Positions
restraint system	Type and description	(a)
	Location	2 Seat Belts - Front 2 - Rear
	Standard/optional	N.A.
Passive seat belts	Power/manual	N.A.
	2 or 3 point	N.A.
•	Knèe bar/lap belt	N.A.

(a) Front outboard restraints feature a 3-point continuous loop design with a tension reliever, finished edge webbing and buckle assemblies that move fore and aft with seat travel. Rear outboard restraints consist of a lap belt with a retractor. A lap belt is provided at the center rear position.

Car Line	THUNDERBI	RD			
Model Year_	1985	Issued	9/84	Revised (•)	

Body Type

ALL MODELS

Air conditioninauto, temp co	ng (manual,	
		Optional, Manual or Automatic Temperature Control
Clock (digital,		Optional Electronic Digital; Std. on Turbo Coupe
Compass / the	·	N.A.
Console (floor	`````````````````````````	N.A.
Defroster, ele		Optional (Mandatory in New York State)
	Diagnostic warning (integrated, individual)	Optional, Integrated
•	Instrument cluster (list instruments)	Std: LCD Speedo., Trip Odometer, Fuel & Temp. Gauges
Electronic	Keyless entry	Optional
	Tripminder (avg. spd., fuel)	Optional
	Voice alert (list items)	N.A.
	Other .	Optional, Interval Windshield Wipers
ruel door lock	(remote, key, electric)	Optional, Electric
	Auto head on / off delay, dimming	Optional All Models Except ELAN and FILA
	Cornering	Optional All Models Except ELAN and FILA
	Courtesy (map, reading)	Optional
	Door lock, ignition	Optional Illuminated Door Locks
Lamna	Engine compartment	Optional
Lamps	Fog	Standard, Turbo Coupe
	Giove compartment	
	Trunk	Standard
	Other	
	Sharksink (outs a part)	
	Day/night (auto. man.)	Optional, Automatic; Standard Day/Night Manual Optional, Power Remote Ctl., All Models Except ELAN & FILA
Mirrors	L.H. (remote, power, heated)	Optional, Power Remote Ctl., All Models Except ELAN & FILA
	R. H. (convex, remote, power, heated)	Optional, Power Remote Ctl., All Models Except ELAN & FILA
	Visor vanity (RH / LH, illuminated)	Optional, L.H. and R.H. Illuminated
Parking brake	-auto release (warning light)	
	Door locks / deck lid - specify	Optional, Electric Door Locks and Decklid Release
	Seat (2-4-6 way) heated (driver, pass, other)	Optional 6-Way Bucket Seat, All Models Except FILA.
Power	heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Optional Articulated Seat, All Models Except FILA & Turbo Coupe. Optional D/P Pwr. Recliner; Optional Heated Seat; Optional Programmable Driver Seat
equipment	Side windows	Opt. All Models Exc. ELAN & FILA; Std. on Lux, Grp. Turbo Coupe
	Vent windows	N.A.
	Rear window	N.A.
Radio	Antenna (location, whip, w/shield, power)	Optional. Power Antenna
systems	AM, FM, stero, tape, CB	(a)
	Speaker (number, location) Premium sound	Amp. W/Door Speakers & Upgraded Frt. & Rear Speakers
Roof open air/	fixed (flip-up, sliding, "T")	Flip-Up/Open Air, Optional
Speed control device		Optional, All Models Except FILA
Speed warning	device (light, buzzer,etc.)	Standard
Tachometer (r		N.A.
		When Vehicle is Entered Without Key or Keyless Entry
Theft protectio	n-type	Code, the Vehicle is Automatically Disabled, Lights
	i	Flash and Horn Blows, Optional

⁽a) Standard: AM/FM Stereo

Optional: AM/FM Stereo w/Cassette, Electronic AM/FM Stereo Search w/Cassette, Graphic Equalizer

METRIC (U.S. Customary) Car and Body Dimensions

See Key Sheets for definitions

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

Body Type	SAE Ref. No.	2-DOOR (63D) SEDAN
Width		
Tread (front)	W101	1477 (58.1)
Tread (rear)	W102	1487 (58.5)
Vehicle width	W103	1807 (71.1)
Body width at Sg RP (front)	W117	1782 (70.2)
Vehicle width (front doors open)	W120	4038 (159.0)
Vehicle width (rear doors open)	W121	***
Length		
Wheelbase	L101	2642 (104.0)
Vehicle length	L103	5019 (197.6)
Overhang (front)	L104	1107 (43.6)
Overhang (rear)	L105	1270 (50,0)
Upper structure length	L123	2644 (104,1)
Rear wheel C/L "X" coordinate	L127	4282 (89.8)
Cowl point "X" coordinate	L125	192 (7.6)
Height*		
Passenger distribution (frt./rear)	PD1,2,3	2/1
Trunk/cargo load		0
Vehicle height	H101	1352 (53.2)
Cowf point to ground	H114	975 (38.4)
Deck point to ground	H138	955 (37.6)
Rocker panel-front to ground	H112	203 (8.0)
Bottom of door closed-front to grd.	H133	264 (10.4)
Rocker panel-rear to ground	H111	191 (7.5)
Bottom of door closed-rear to grd.	H135	
Ground Clearance*		
Front bumper to ground	H102	352 (13.9)
Rear bumper to ground	H104	294 (11.6)
Bumper to ground [front at curb mass (wt.)]	H103	353 (13.9)
Bumper to ground [rear at curb mass (wt.)]	H105	_337 (13.3)
Angle of approach (degrees)	H106	190
Angle of departure (degrees)	H107	110
Ramp breakover angle (degrees)	H147	11.80
Rear axle differential to ground	H153	165 (6.5)
		AUJ LUAII
Min. running ground clearance	H156	122 (4.8)

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

THUNDERBIRD Car Line 1985 9/84 Issued _ Model Year, Revised (●) .

METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for definitions

Body Type

	SAE Ref. No.	2-DOOR (63D) SEDAN		
- 1		OLDER		

Front Compartment

		·
Sg RP front, "X" coordinate	L31	
Effective head room	H61	958 (37.7)
Max. eff. leg room (accelerator)	L34	1066 (42.0)
Sg RP (front to heel)	H30	221 (8.7)
Design H-point front travel	L17	179 (7.0)
Shoulder room	W3	1429 (56.3)
Hip room	W5	1417 (55.8)
Upper body opening to ground	H50	1220 (48.0)
Steering wheel angle	H18	22.9°
Back angle	L40	25.0°

Rear Compartment

L50	788 (31.0)
H63	934 (36.8)
L51	872 (34.3)
H31	265 (10,4)
L48	31 (1,2)
L3	688 (27.1)
W4	1401 (55,2)
W6	1257 (49.5)
H51	
L41	
	H63 L51 H31 L48 L3 W4 W6 H51

Luggage Compartment

	_	
Usable luggage capacity [L (cu. ft.)]	V1	413.5 (14.6)
Liftover height	H195	739 (29.1)

Interior Volumes (EPA Classification)

Vehicle class		COMPACT	 		
Interior volume index (cu. ft.)	(*)	120.8			
Trunk/cargo index (cu. ft.)		14.6		·	

(*) Includes Trunk Cargo Index

MVMA Specifications Form Passenger Car METRIC (U.S. Customary) Car and Body Dimensions See Key Sheets for definitions

Car Line	THUNDER	BIRD			
Model Year	1985	Issued _	9/84	Revised (•)	

Station Wagon - Third Seat

(NOT APPLICABLE)

Body	Type
	. 7 P

SAE Ref. No.	2-DOOR (63D) SEDAN/COUPE						
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		<u> </u>
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	SD1	
Back angle	L88	
Station Wagon - Cargo Spa	асе	(NOT APPLICABLE)
Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	,
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m ³ (ft. ³)]	V2	
Hidden cargo volume [m³(ft.³)]	V4	
Cargo volume, index-rear of 2-seat	V10	
Hatchback – Cargo Space		(NOT APPLICABLE)
Front seat back to load floor height	H197	
Cargo length at front seat back height	L208	
Cargo length at floor (front)	L209	
Cargo volume index [m³(ft.³)]	V3	
Hidden cargo volume [m³(ft.³)]	V4	
Cargo volume index-rear of 2-seat	V11	
Aerodynamics*		
Wheel lip to ground, front		680.7 (26.8)
Wheel lip to ground, rear		678.2 (26.7)
Frontal area [m²(ft²)]		21.8 ft. ² (a)
Drag coefficient (Cd)		75

^{*} Describe measurement method.

Wheel lip to ground, rear Frontal area [m²(ft²)] Drag coefficient (Cd)

. 35

Includes Two Outside Mirrors

Car Line	THUNDERE	IRD			
Model Year	1985	Issued	9/84	Revised (•)	

Body Type		
	ALL MODELS	

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location .
1 & 2 Front	The rear vertical edge of the master control notch on the under side of the front door rocker panels located the "X" coordinate relative to body grid.
	X = 2495.4 Y = N.A. Z = N.A.
3 & 4 Rear 5 & 6	The intersection of the horizontal-vertical surfaces on the rocker panel door rabbet locates the "Y" and "Z" coordinates relative to body grid at particular fore-aft inch lines. The fore-aft location can be determined by the reference dimension from - Fiducial Mark 1 and 2.
Fiducial Mark Number	
Front H81 H161 H163	787 (30.9) 2434 (98.2) 456 (17.9)
W22 L55 Rear H82 H162	796 (31.3) 3300 (129.9) 448 (17.6)
H164	

^{*} Reference – SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks – September, 1973. All linear dimensions are in millimeters (inches).

Car Line	THUNDERB	IRD			
Model Year _	1985	_ Issued	9/84	Revised (•)	

Body Type

SAE Ref. No. ALL MODELS	
-------------------------	--

Lamps and	Headlamp Sh	ape*	
	Headlamp	Highest**	676.7 (26.6)
	(H127)	Lowest	
Height above ground to center of bulb	Taillamp	Highest**	674.1 (26.5)
or marker	(H128)	Lowest	674.1 (26.5)
	Sidemarker	Front	646.3 (25.4)
		Rear	674.1 (26.5)
	Headlamp	Inside	435.5 (17.1)
		Outside**	621.0 (24.4)
Distance from C/L of car to	Tailtamp	Inside	440.0 (17.3)
center of bulb		Outside**	642.0 (25.3)
	Directional	Front	659.3 (26.0)
		Rear	642.0 (25.3)
Headlamp shape			Rectangular Halogen, Dual

^{*} Measured at curb mass (weight).
** If single lamps are used enter here.

Car Line	THUNDERBIR	D			
Model Year	1985	Issued _	9/84	Revised (•)	

				1	Vehicle N	lass (w	eight)		
		CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				QUIDDING
Model				1	Pass In Front		Pass In Rear		SHIPPING MASS, kg (weight, lb.)**
<u> </u>		Front	Rear	Total	Front	Rear	Front	Rear	(weight, lb.)**
3.8L V-6 Engine w/					ļ	<u> </u>		ļ	
<u>Automatic Overdrive</u>		ļ				<u> </u>		ļ <u></u>	
Transmission (AOD)					 	ļ			
2-Door	63D	780	621	1401	47	53	18	82	1332
		(1720)		(3090)					(2937)
2-Door Elan	63D	798	630	1428	47	53_	.18	82	1358
		(1758)	(1388)	(3146)					(2993)
					ļ	<u> </u>			
2.3L EFI Turbo w/					 		,	-	
5-Speed Manual								 	
Transmission					 	<u>.</u>		 	
2-Door Turbo Coupe	63D	784	623	1407	47	53	18	82	1338
2=DOOL III, IIO COMPE		(1729)		(3103)	4/	-33	18	82	$\frac{1338}{(2950)}$
		11/29)	13/4)	(3103)	╁───			 	(2950)
					 			 	
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^{*}Reference – SAE J1100a, Motor vehicle dimensions, curb weight definition.
*Shipping mass (weight) definition — Tages Flued Fractice C

Less Fuel Engine Coolant

 Car Line
 THUNDERBIRD

 Model Year
 1985
 Issued
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			Optional Equi	Ipment Differential Mass (weight)*		
F		MASS, kg. (we	ight, lb.)			
Equipment	Front	Rear	Total	Remarks		
POWERTRAINS:						
2.3L Turbo w/5 Speed	-19.1	-10.9	-30.0	Requires Appearance Group -		
Manual Trans.	(-42)	(-24)	(<u>-66</u>)	Special		
2.3L Turbo w/C3 Auto	-20	-11.8	-31.8	Requires Appearance Group		
Trans.	(-44)	(-26)	(-70)			
5.OL w/AOD Auto Trans.	80.8	-4.5	76.3			
	(178)	(-10)	(168)			
3.8L w/C5 Auto Trans.	-13.6	-2.3	15.9			
	(-30)	(-5)	(-35)			
AXLES:		-	The Section			
3.8L C512 2.73 Ratio	0	0.9	0.9			
	(0)	(2)	(2)			
5.0L AOD & 3.8L C512	0	1.4	1.4			
3.08 Ratio	(0)	(3)	(3)			
5.0L AOD & 3.8L C512	0	4.1	4.1			
3.08 Locker	(0)	(9)	(9)			
3.8L AOD 3.45 Locker	0	4.1	4.1			
	(0)	(9)	(9)			
2.3L-T C3 3.45 Locker	0	4.1	4.1			
	(0)	(9)	(9)			
2.3L-T M50D 3.45 Locker	0	4.1	4.1			
	(0)	(9)	(9)			
TIRES:		<u> </u>				
P220/55R-390 BSW TRX	-1.4	-1.4	-2.7			
(Includes Wheels)	(-3)	(-3)	(-6)			
P205/70R-14 Radial WSW	0.9	0.9	1.8			
	(2)	(2)	(4)			
Audio Equipment:						
Radio - AM - Delete	-2.3	-1.8	-4.1			
	(-5)	(-4)	(-9)			
Radio - AM/FM/MPX -	0.9	0.5	1.4			
Cassette	(2)	(1)	(3)			
Radio - Electronic AM/	0.9	0.5	1.4			
FM/MPX/Search	(2)	(1)	(3)			

^{*}Also see Engine - General Section for dressed engine mass (weight).

CarLineTHUNDERBIE	ED			
Model Year 1985	_ Issued _	9/84	Revised (•)	

0.9 (2)	AASS, kg. (weighted) Rear 0.5 (1)	Total	Remarks
0.9 (2)	Rear	Total	Remarks
(2)_		1 /	
(2)_		1 /	
(2)_		1 4	
(2)_		1 /	
	(1)		
1.8	1	(3)	
	0.5	2.3	
_(4)	(1)	(5)	
1.4	0	1.4	
(3)	(0)	(3)	
0.5	0	0.5	
(1)	(0)	(1)	
2.3	0	2.3	·
(5)	(0)	(5)	
-2. 7	0	-2.7	
(-6)	(0)	(-6)	
25.8	-2.3	23.5	
(57)	(-5)	(52)	
24.9	-2.3	22.6	
(55)	(-5)	(50)	
22.7	-1.8	20.9	
(50)	(-4)	(46)	
23.6	-1.4	22.2	
(52)	(-3)	(49)	
22.7	-1.8	20.9	
(50)	(-4)	(46)	
1.3	0.5	1.8	
(3)	(1)	(4)	
0.9	0	0.9	
(2)	(0)	(2)	
	(3) 0.5 (1) 2.3 (5) -2.7 (-6) 25.8 (57) 24.9 (55) 22.7 (50) 23.6 (52) 22.7 (50) 1.3 (3)	(4) (1) 1.4 0 (3) (0) 0.5 0 (1) (0) 2.3 0 (5) (0) -2.7 0 (-6) (0) 25.8 -2.3 (57) (-5) 24.9 -2.3 (55) (-5) 22.7 -1.8 (50) (-4) 23.6 -1.4 (52) (-3) 22.7 -1.8 (50) (-4) 1.3 0.5 (3) (1) 0.9 0	(4) (1) (5) 1.4 0 1.4 (3) (0) (3) 0.5 0 0.5 (1) (0) (1) 2.3 0 2.3 (5) (0) (5) -2.7 0 -2.7 (-6) (0) (-6) 25.8 -2.3 23.5 (57) (-5) (52) 24.9 -2.3 22.6 (55) (-5) (50) 22.7 -1.8 20.9 (50) (-4) (46) 23.6 -1.4 22.2 (50) (-4) (46) 22.7 -1.8 20.9 (50) (-4) (46) 1.3 0.5 1.8 (3) (1) (4) 0.9 0 0.9

^{*}Also see Engine - General Section for dressed engine mass (weight).

			Optional Equ	nent Differential Mass (weight)*		
Equipment		MASS, kg. (we	ight, lb.)			
Equipment	Front	Rear	Total	Remarks		
MISCELLANEOUS OPTIONS:	<u> </u>					
(cont'd.)	<u> </u>					
C4 1	 	ļ				
Steering Wheel -	(1)	0	0.5			
Leather Wrapped	 L1) 	(0)	(1)			
Speed Control	2.3	0.5	2.7			
	(5)	(1)	(6)			
	<u> </u>					
Tripminder	0.5	0	0.5			
	(1)	(0)	(1)			
Instrumentation Group -	0.9	0	0.9			
Electronic	(2)	(0)	(2)			
	\2/_	(0)	(2)			
Visibility/Light Group	0.5	0	0.5			
•	(1)	(0)	(1)			
7 6 7	ļ. <u>.</u>	 				
<u>Mirror - Left Hand -</u> Power	0.5	0	0.5			
rower	(1)	(0)	(1)			
Mirror - Right Hand -	0.9	0	0.9	<u>'</u>		
Power	(2)	(0)	(2)			
Power Equipment Group	1.4	0.9	2.3			
	(3)	(2)_	(5)			
Headlight Turn Off/		_	0.5			
Delay - Auto	0.5	(0)	0.5 (1)			
TO TAY AULU		(0)				
Side Lights - Cornering	0.5	0	0.5			
	(1)	(0)	(1)			
P1						
Electronic Day/Nite	0.5	0	0.5			
Inside Mirror	(1)	(0)	(1)			
Defroster - Rear Window-	0.5	0	0.5			
Electronic	(1)_	(0)	(1)			
Side Windows - Power	1.8	1.4	3.2			
	(4)	(3)	(7)			
Vent Window - Manual	0.9	0.5	1 7.			
	(2)	(1)	(3)			
	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_\ <u>\</u>	(3)			
Seats:						
Special Funct-6W Do-	11.8	8.6	20.4			
Adj. Pass/Driver	(26)	(19)	(45)			

^{*}Also see Engine - General Section for dressed engine mass (weight).

Car Line	THUNDERB	IRD	_		
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	Optional Equipment Differential Mass (weight)*				
	MASS, kg. (weight, lb.)				
Equipment	Front	Rear	Total	Remarks	
MISCELLANEOUS OPTIONS:					
(cont'd.)					
Seats: (cont'd.)					
Special Functional -	8.2	5.4	13.6		
Adj D/P (Man)	(18)	(12)	(30)		
Individual-6W/6W-Man.	5.4	-			
Recl. Pass/Driver	(12)	3.6	9.0		
RECT. PASS/DITVER	(12)	(8)	(20)		
Individual-6W Do-Recl.	0.5	0.5	1.0	With Special Appearance Group (B8B)	
Pass/Driver	(1)	(1)	(2)		
Sunroof - Removable	3.6	5.0	8.6		
Glass	(8)	(11)	(19)		
Suspension - Heavy Duty	-		·		
5.0L	0.9	2.7	2.6	 	
J. (VIII	(2)	(6)	3.6 (8)		
	(4)	(0)	(0)		
3.8L	1.4	2.3	3.7		
	(3)	(5)	(8)		
Wheels:		 			
Steel Polycast	3.6	3.6	7.2		
	(8)	(8)	(16)		
Stee1-(4) 14 x 5.5	0.5	0.9	1.4		
	(1)	(2)	(3)		
Wheel Covers:					
Luxury	0.5	0.9	1.4		
	(1)	(2)	(3)		
Wire Locking	3.6	3.2	6.8	<u> </u>	
HITE HOCKING	(8)	(7)	(15)		
	 (0)		(12)		
Spare Tire - Standard -		† · · · · · †			
Delete:					
P205/70R14 WSW	-0.5	5.9	5.4		
THE STATE OF THE S	(-1)	(13)	(12)		
	1 2 2				
Protection - Road	0.9	0.9	1.8		
Abrasion	(2)	(2)	(4)		
Exterior Moulding -	0.5	0.5	1.0		
Rocker Panel	(1)	(1)	(2)		
KOCKET PANEL Also see Engine - General Section for dressed engine			(2)		

^{*}Also see Engine - General Section for dressed engine mass (weight).

Car Line	THUNDERBI	RD		_	
Model Year _	1985	Issued	9/84	Revised (*)	

METRIC (U.S. Customary)

	Optional Equipr			ment Differential Mass (weight)*		
	 					
Equipment	Front	MASS, kg. (weight, lb.) Front Rear Total		Remarks		
MISCELLANEOUS OPTIONS:						
(cont'd.)	ļ <u>.</u>					
Warning System - Audio -	0.5	0	0.5			
French	(1)	(0)	(1)	,		
Warning System - Audio -	0.5	0	0.5			
English	(1)	(0)_	(1)			
Kit - Tool Emergency/	0	4.6	4.6			
_ First Aid	(0)	(10)	(10)			
Powledno Bush D. 1		<u> </u>				
Parking Brake Release - Automatic	0.9	0	0.9			
AULUMALIC	(2)	(0)	(2)			
Floor Mats - Front	1.8	-0.5	1.3			
	(4)	(-1)	(3)			
		<u> </u>		·		
Luggage Compartment - Dress Up	-0.5 (-1)	(3)	0.9			
	(-1)	(3)	(2)			
Keyless Entry System	2.7	1.4	4.1			
	(6)	(3)	(9)			
Diagnostic/Warning Light Module	0.9	0.9	1.8			
Module	(2)	(2)	(4)			
Trailer Towing Package	0.5	6.3	6.8			
Class II (5.OL w/AOD)	(1)	(14)	(15)			
Emission Systems:						
Canada	-5.4	-0.9	-6.3			
3.8L C512	(-12)	(-2)	(-14)			
3.8L AOD	0.9	0	0.9			
	(2)	(0)	(2)			
2.3L-T T50D	0	0	0			
	(0)	(0)	(0)			
2.3L-T C3	0	0	0			
	(0)	(0)	(0)			
5.OL AOD	0	0	0			
	(0)	(0)	(0)			
			<u>\ \ </u>			
Coach Lamps	0.9	0.9	1.8			
Also see Engine - General Section for dropped against	(2)	(2)	(4)			

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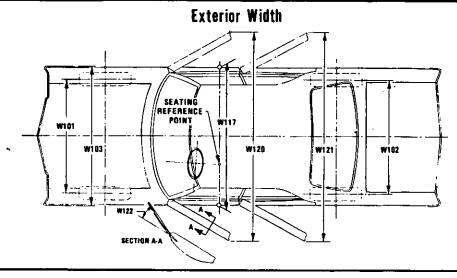
^{*}Also see Engine - General Section for dressed engine mass (weight).

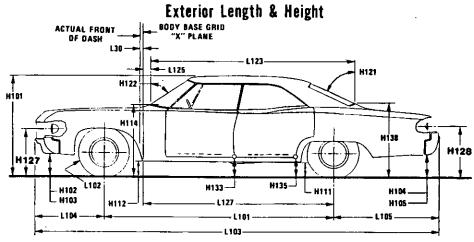
Car Line THUNDE	RBIRD			
Model Year 1985	Issued	9/84	Revised (•)	

		(Optional Equi	ent Differential Mass (weight)*		
·	MASS, kg. (weight, lb.)			<u> </u>		
Equipment	Front	Rear	Total	Remarks		
MISCELLANEOUS OPTIONS:						
(cont'd.)						
Anti-Theft System	0.5	0	0.5			
	(1)	(0)	(1)			
T. D. D. L.	0.5	 				
License Plate Bracket - Front	0.5 (1)	(0)	0.5			
Front	 (1)	 W)_	(1)			
Vanity Mirror - Visor -	0.9	0	0.9			
Vanity Mirror - Visor - Illuminated LH & RH	(2)	(0)	(2)			
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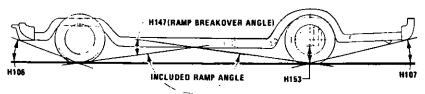
^{*}Also see Engine - General Section for dressed engine mass (weight).

Exterior Car And Body Dimensions - Key Sheet



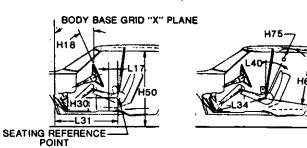


Exterior Ground Clearance

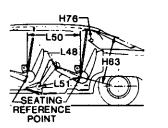


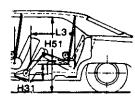
Interior Car And Body Dimensions – Key Sheet

Front Compartment

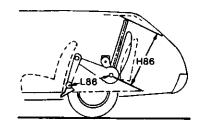


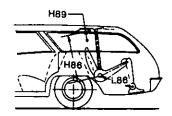
Rear Compartment

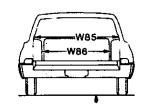


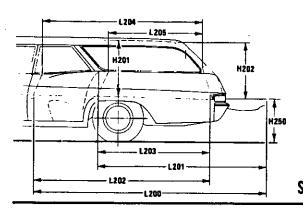


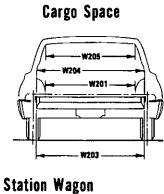
Third Seat

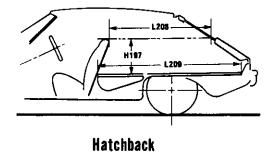




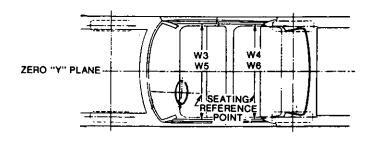








Interior Width



METRIC (U.S. Customary)

Exterior Car 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, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

- TREAD-FRONT. The dimension measured between the W101 tire centerlines at the ground.
- TREAD-REAR. The dimension measured between the tire 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 be-W103 tween 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,
- VEHICLE WIDTH-FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH-REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open positions. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 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.

Length Dimensions

- FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero
- WHEELBASE (WB). The dimension measured longitudi-L101 nally 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.
- L102 TIRE SIZE. As specified by the manufacturer.
- 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.
- OVERHANG-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.
- L105 OVERHANG-REAR. The dimension measured longitudinally 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.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.
- L125 COWL POINT "X" COORDINATE.

Height Dimensions

- VEHICLE HEIGHT. The dimension measured vertically H101 from the highest point on the vehicle body to ground.
- H114
- COWL POINT TO GROUND. Measured at zero "Y" plane. DECK POINT TO GROUND. Measured at zero "Y" plane. H138
- H112 ROCKER PANEL-FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H132 BOTTOM OF DOOR OPEN-FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum holdopen position, 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.
- BOTTOM OF DOOR OPEN-REAR TO GROUND. The di-H134 mension measured vertically from the bottom outside comer of the door on the lock pillar side, in maximum holdopen position, to ground.
- H135 BOTTOM OF DOOR CLOSED-REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum clossed position, to ground.
- BACKLIGHT SLOPE ANGLE. The angle between the 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 vertical reference line and a chord of the windshield are 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.
- HEADLAMP TO GROUND-CURB MASS (WT.). The di-H127 mension measured vertically from the centerline of the lowest headlamp lens to ground.
- TAILLAMP TO GROUND-CURB MASS (WT.). The dimen-H128 sion measured vertically from the centerline of the upper bulb to ground.

Ground Clearance Dimensions

- 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.
- H103 FRONT BUMPER TO GROUND CURB MASS (WT.). Measured in the same manner as H104.
- 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.
- H105 REAR BUMPER TO GROUND - CURB MASS (WT.). Measured in the same manner as H104.

Interior Car And Body Dimensions - Key Sheet **Dimensions Definitions**

- ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are 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 line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear
- tire to ground. The limiting component shall be designated. REAR BREAKOVER ANGLE. The angle measured between 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 dimension measured from the rear axle differential to ground.
- MINIMUM RUNNING GROUND CLEARANCE. The mini-H156 mum dimension measured from the sprung vehicle to ground Specify location.

Front Compartment Dimensions

- PASSENGER DISTRIBUTION-FRONT. PD1 L31 SgRP-FRONT "X" COORDINATED.
- EFFECTIVE HEAD ROOM-FRONT. The dimension mea-H61 sured along a line 8 deg. rear of vertical from the SgRPfront to the headlining plus 102 mm (4.0 in.)
- EFFECTIVE T-POINT HEAD ROOM-FRONT. The mini-H75 mum radius from the T-point to the headlining plus 762
- MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. L34 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 manufacturer shall place foot flat on pedal and note the depression of the pedal.
- H30 SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
- DESIGN H-POINT-FRONT TRAVEL. The dimension mea-L17 sured horizontally between the design H-point-front in the
- foremost and rearmost seat trace positions.
 SHOULDER ROOM-FRONT. The minimum dimension W3 measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front within the belt line and 254 mm (10.0 in.) above the SgRP-front.
- W5 HIP ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front within 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 the SgRP-front.
- H50 UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body open-
- ing to the ground on the SgRP-front "X" plane. STEERING WHEEL ANGLE. The angle measured from a H18 vertical to the surface plane of the steering wheel.

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

Rear Compartment Dimensions

- PD2 PASSENGER DISTRIBUTION-SECOND.
- L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP-front to the SgRP-sec-

- 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.). EFFECTIVE T-POINT HEAD ROOM—SECOND. Measured
- H76 in the same manner as H75.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254 mm (10.0 in.).
- SgRP-SECOND TO HEEL. The dimension measured ver-H31 tically from the SgRP-second to the two dimensional de-
- vice heel point on the depressed floor covering.

 KNEE CLEARANCE-SECOND. The minimum dimension L48 measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).
- COMPARTMENT RÓOM-SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP-second within 254-406 mm (10.0-16.0 in.) above the SgRP-second.
- HIP ROOM-SECOND. Measured in the same manner as W₆
- H51 UPPER BODY OPENING TO GROUND-SECOND. The 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.
- L-41 Same as L-40.

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 proce-
- dure described in paragraph 8.2 of SAE-J1100a. LIFTOVER HEIGHT. The dimension measured vertically H195 from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates 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

- PASSENGER DIRECTION-THIRD:
- SHOULDER ROOM-THIRD. Measured in the same man-W85 ner as W5.
- W86 HIP ROOM-THIRD. Measured in the same manner as W5. L86 EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SgRPthird plus 254 mm (10.0 in.).
- H86 EFFÉCTIVE 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.).
- H89 EFFECTIVE T-POINT HEAD ROOM-THIRD. Measured in the same manner as H75.
- L-88 Same as L-40.

Station Wagon - Cargo Space Dimensions

CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of the front

METRIC (U.S. Customary)

Interior Car And Body Dimensions - Key Sheet Dimensions Definitions

Station wagon - Cargo Space Dimensions (con't.)

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 on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane

ventional door type tailgate, at the zero "Y" plane.

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

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

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

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

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

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

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

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

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

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

H250 TAILGATE TO GROUND (CURB 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:

$$\frac{\text{W4 x H201 x L204}}{1728} = \text{ft.}^3$$

Measured in mm:

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

V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

V10 STATION WAGON (REAR OF SECOND SEAT)
Measured in inches:

$$\frac{\text{W4 x H201 x L205}}{1728} = \text{ft.}^3$$

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

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

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The vertical dimension from the horizontal tangent to top of seatback to undepressed floor covering at zero "Y" plane.

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

cle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR-FRONT-HATCHBACK.

The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT—
HATCHBACK. The horizontal dimension from the "X"
plane tangent to 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 "Y" plane.

L211 CARGO LENGTH AT FLOOR—HATCHBACK—SECOND.
The horizontal dimension 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.

V3 HATCHBACK.

Measured in inches:

Measured in mm:

V11 HATCHBACK (REAR OF SECOND SEAT)
Measured in inches:

$$\frac{\text{W4 x H198 x } \underline{\text{L210 + L211}}}{1728} = \text{ft.}$$

Measured in mm:

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