AMA Specifications – Passenger Car

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MANUFACTURER	CAR NAME	
Ford Motor Company	Thunderbird	
MAILING ADDRESS	MODEL YEAR	ISSUED: 11-10-60
20,000 Rotunda Drive, Dearborn, Mich.	1961	REVISED (•)

NOTES:

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
   a. Specifications apply to the standard model without optional equipment. Significant deviations are noted.
   b. Specifications apply basically to 4-door sedan or equivalent.
   c. Nominal design dimensions are used throughout these specifications.

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BODY—TYPES AND STYLE NAMES—

Body type, number of passenger & style names; use manufacturer's code for series & body style.

2-Door Hardtop	63A
2-Door Convertible	76A

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	63A	76A
Wheelbase (L-101)		23	113.0	
Tread	Front (W-101)	24	61.0	
	Rear (W-102)	24	60.0	
Maximum Overall Dimensions	Length (L-103)	23	205.0	
	Width (W-103)	24	75.9	
	Height (H-101)	22	52.5	53.3
Transmission—(Specify trade name - opt., not available)	Manual	13	Not Offered	
	Overdrive	14	Not Offered	
	Automatic	14	Dual Range	
Axle ratio	Manual	15	- - - -	
	Overdrive	15	- - - -	
	Automatic	15	3.00:1	
Tire size		16	8.00 x 14-4 PR	
Engine	Type, no. cyl., valve arr.	2	90° V8 OHV	
	Fuel system (Carb., other)	6	Carburetor	
	Bore and stroke	2	4.05 x 3.78	
	Piston displ., cu.in.	2	390	
	Std. compression ratio	2	9.6	
	Max. bhp at engine rpm	2	300 @ 4600	
	Max. torque at rpm	2	427 @ 2800	

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MODEL All

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° V8 OHV
Bore and stroke (nominal)		4.05 x 3.78
Piston displacement, cu. in.		390
Bore spacing (C/L to C/L)		4.63
No. system (front to rear)	L. Bank	5-6-7-8
	R. Bank	1-2-3-4
Firing order		1-5-4-2-6-3-7-8
Compres. ratio (nominal)		9.6:1
Cylinder Head Material		Cast Iron
Cylinder Sleeve-Wet, dry, none		None
Number of mounting points	Front	Two - attached to #2 crossmember
	Rear	One - attached to #3 crossmember
Engine installation angle		1° 20'
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		52.49
Published max. bhp* @ eng. RPM		300 @ 4600
Published max. torque* (lb. ft. @ RPM)		427 @ 2800
Recommended fuel regular - premium		Premium
Idle speed (spec. neutral or drive)	Manual	
	Automatic	475 - 500 RPM (Dr.)

ENGINE—PISTONS

Material	Aluminum
Description and finish	Autothermic type, closed slipper skirt, tin plated
Weight (piston only) oz.	24.41 - 24.62

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

(Continued)

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MODEL All

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.0180 - .0212
	Skirt	Top	.0020 - .0041
		Bottom	.0015 - .0021
Ring groove depth	No. 1 ring		.1890 - .1960
	No. 2 ring		.1890 - .1960
	No. 3 ring		.1855 - .1925
	No. 4 ring		------

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil Ring
	No. 4, oil or comp.	
Compression	Description - material, type, coating, etc.	#1 -Plain face, cast iron alloy, chrome plated #2 -Plain, scraper groove, cast iron alloy phosphated coated.
	Width	#1, .0774 - .0781; #2 .093 - .094
	Gap	.015 - .025
Oil	Description - material, type, coating, etc.	Three piece, sectional blued expander - SAE-1070 Steel rail - chrome plated.
	Width	3/16 nominal - snug in groove
	Gap	.015 - .055
Expanders		Integral with oil ring

ENGINE—PISTON PINS

Material			Alloy steel, heat treated, SAE-5015 steel
Length			3.150 - 3.170
Diameter			.9750 - .9753
Type	Locked in rod, in piston, floating, etc.		Full Floating Tubular
	Bushing	In rod or piston	In Rod
		Material	Bronze
Clearance	In piston		.0001 - .0003 (Select Fit)
	In rod		.0001 - .0003 (Select Fit)
Direction & amount offset in piston			To Right .0575 - .0675

ENGINE—CONNECTING RODS

Material		Forged steel, with separately forged caps
Weight (oz.)		25.25 - 25.68
Length (center to center)		6.486 - 6.490
Bearing	Material & Type	Steel backed, copper-lead alloy replaceable inserts
	Overall length	.735 - .746
	Clearance (limits)	.0010 - .0028
	End play	.006 - .016 (Two Rods)

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MODEL All

ENGINE—CRANKSHAFT

Material			Precision molded, alloy cast iron
Vibration damper type			Rubber floated
End thrust taken by bearing (No.)			#3
Crankshaft end play			.004 - .008
Main bearing	Material & type		Steel-backed copper-lead alloy Replaceable inserts
	Clearance		.0010 - .0031
	Journal dia. and bearing overall length	No. 1	2.7488 x .907
		No. 2	2.7488 x .907
		No. 3	2.7488 x 1.119
		No. 4	2.7488 x .907
		No. 5	2.7488 x .907
		No. 6	
		No. 7	
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.4380 - 2.4388

ENGINE—CAMSHAFT

Location			In Block
Material			Precision molded, special alloy iron
Bearings	Material		Steel-backed, babbitt replaceable inserts
	Number		Five
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Sintered iron or steel
	Camshaft gear or sprocket material		Cast Iron
	Timing chain	No. of links	48
		Width	.86
		Pitch	.50

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Hydraulic lifters (std.)
Valve rotator, type (intake, exhaust)		Ford free-turn intake and exhaust
Rocker ratio		1.76:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero
Timing marks on flywheel, damper, other		Pointer on front cover

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MODEL All

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	26°
		Closes (°ABC)	64°
		Duration - deg.	270
	Exhaust	Opens (°BBC)	67
		Closes (°ATC)	23
		Duration - deg.	270
	Valve opening overlap		49
Intake	Material		Special alloy valve steel (aluminum coated)
	Overall length		5.446
	Actual overall head dia.		2.022 - 2.037
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.3711 - .3718
	Stem to guide clearance		.0010 - .0024
	Lift		.408
	Outer spring press. and length	Valve closed (lb. @ in.)	74 - 85 @ 1.82
		Valve open (lb. @ in.)	190 - 208 @ 1.42
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper Only
		Valve open (lb. @ in.)	------
Exhaust	Material		Cast Austenitic Steel
	Overall length		5.426
	Actual overall head dia.		1.551 - 1.566
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.3693 - .3700
	Stem to guide clearance		.0028 - .0042
	Lift		.408
	Outer spring press. and length	Valve closed (lb. @ in.)	74 - 84 @ 1.82
		Valve open (lb. @ in.)	190 - 208 @ 1.42
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper Only
		Valve open (lb. @ in.)	------

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Oil Mist
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Splash
	Cylinder walls	Indexed Pressure Stream

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MODEL All

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Rotor
Normal oil pressure (lb. @ engine rpm)	52 - 62 P.S.I. @ 2000
Oil pressure sending unit (elect. or mech.)	Electrical
Type oil intake (floating, stationary)	Stationary shrouded screen in sump
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Complete
Capacity of crankcase, less filter-refill (qt.)	5
-with filter	6
Oil grade recommended (SAE viscosity and temperature range)	SAE 30 or 10W-30, above 90° F. SAE 20 or 20W or 10W-30, 20°F. to 90°F. SAE 5W-20, 10W or 10W-30, -10°F. to 20°F. SAE 5W-20 below -10° F.
Engine Service Requirement (MM, MS, etc.)	MS

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual with balance tube crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)		Round, reverse flow
Exhaust pipe dia. (O.D., wall thickness)	Branch	2.00 x .084 Laminated
	Main	2.00x .075 Solid
Tail pipe diameter (O.D. & wall thickness)		Integral with muffler

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Capacity (gals.)		20
	Filler location		Rear Center
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Left side on front cover
	Pressure range		4.5 - 5.5 P.S.I.
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Wire cloth plastic and paper
	Locations		Wire cloth in tank; Hi Eff. Paper in Fuel line
Carburetor	Make & Model No.		Ford
	Number of carbs., bbls. per carb. & type		One - 4 Barrel
	Barrel size		1.562
	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air clnr. type	Standard	Dry, replaceable element
		Optional	- - - - -

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MODEL All

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			12-15
Circulation thermostat	Type (choke, bypass)		Choke - poppet type
	Starts to open at (°F)		175 - 180° F.
Water pump	Type (centrifugal, other)		Centrifugal
	Number of pumps		One
	Drive (V-belt, other)		V-Belt
	Bearing type		Double row, sealed ball
By-pass recirculation type (internal, external)			External
Radiator core type (cellular, tube and fin, other)			Crossflow, tube or corrugated fin
Cooling system capacity	With heater (qt.)		20.5
	Without heater (qt.)		19.5
	Opt. equipment-specify (qt.)		----
Water jackets full length of cylinder (yes, no)			yes
Water all around cylinder (yes, no)			yes
Radiator hose	Lower	Number and type (molded, straight)	One -Formed
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	One -Formed
		Inside diameter	1.75
	By-pass	Number and type (molded, straight)	One Straight
		Inside diameter	.82 - .87
Fan	Number of blades & Spacing		Five - Unequal
	Diameter		18.5
	Ratio-fan to crankshaft rev.		.90 to 1 (1.25 with A.C.)
	Fan cutout type		None, except with A.C.
	Bearing type		Double row sealed ball (water pump bearing)
*Drive belts (indicate belt used by letter)	Fan		Std./ F Air Cond./ J Dual
	Generator		F J "
	Water Pump		F J "
	Power Steering		G G
	Air Conditioning		H

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* Drive Belt Dimensions	F	G	H	J	
Angle of V	36°	36°	36°	36°	
Nominal length (SAE)	44.00	38.50	41.50	41.67	
Width	.469	.50	.50	.38	

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MODEL All

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Various
	Voltage Rtg. & Total Plates		12 - 78
	SAE Designation & Amp Hr. Rtg		65
	Location		Engine Compartment-Right Front
	Terminal grounded		Negative
Generator	Make		Ford
	Model		----
	Type		Shunt
	Ratio—Gen. to Cr/s rev.		2.25:1
	Gen. cut-in (hot)—engine rpm		6.25
Regulator	Make		Ford or American Bosch
	Model		-----
	Type		Three Coil
	Cutout relay	Closing voltage @ generator rpm	12.4 - 13.2 @ 75° F @ 1200 RPM
		Reverse current to open	5.9 AMP
	Regulated	Voltage	14.6 - 15.4 @ 75° F.
		Current	28 - 32
	Voltage test conditions	Temperature	75° F.
		Load	5 amperes
		Other	------

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Ford
	Model		FAR-11001-A
	Rotation (drive end view)		Clockwise
	Engine cranking speed		150-180 RPM
	Test conditions		85° F.
	Lock test	Amps	580
		Volts	5
		Torque (lb. ft.)	14.8
	No load test	Amps	110
		Volts	12
		RPM (min.)	5200
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Turn ignition key to right beyond the "on" position.

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MODEL All

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Bendix Folo-thru
	Pinion meshes (front, rear)		Rear
	Number of teeth	Pinion	9
		Flywheel	153
	Flywheel tooth face width		.370 - .380

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Ford
	Model		FAC-12029-A
	Amps	Engine stopped	4.5
		Engine idling	2.5
Distributor	Make		Ford
	Model		CISF-12127-A
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° @ 700
		Intermediate points deg. @ rpm	11° @ 1000
		Max deg. @ rpm	23° @ 4000
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° @ 7"
		Intermediate points, deg @ in Hg	6° @ 10.5" 11° @ 14"
		Max. deg. in. Hg.	15° @ 17"
	Breaker gap (in.)		.014 - .016
	Cam angle (deg.)		26° - 28.5°
	Breaker arm tension (oz.)		17-20
Timing	Crankshaft deg. @ rpm.		6° @ 500
	Mark location		Vibration Damper
	Cylinder numbering system (see page 2)		R-1-2-3-4 L-5-6-7-8
	Firing order (see page 2)		1-5-4-2-6-3-7-8
Spark Plug	Make and model		Champion F11Y
	Thread (mm)		18 MM
	Tightening torque (lb. ft.)		20-30
	Gap		.032-.036
Cable	Conductor type		Resistance Core Cable
	Insulation type		Neoprene Sheath
	Spark plug protector		Applied "Hypalon Boot"

ELECTRICAL—SUPPRESSION

Locations & type	Capacitors at the generator and voltage regulator. Resistance core cable from coil to the distributor and from the distributor to spark plugs.

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MODEL All

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	King Seeley
	Trip odometer (yes, no)	No
Charge indicator—type		Warning Light
Temperature indicator—type		Electric Gage
Oil pressure indicator—type		Warning Light
Fuel indicator—type		Electric Gage
Other		
Ignition switch	Identify positions in order and circuits controlled	To Left: Accessories "On" only. Center" Accessories and Engine "Off". To Right: First Position; Accessories and Engine "On" Second Position; Starter and Engine "On" with Accessories "Off".
	Provision for illumination	None
	Location	Instrument Panel Extension
Main lighting switch	Identify positions and lamps controlled	Pull Out - First position;- parking lamps, taillamps, license lamps instrument panel lamps and ash tray-glove box lamp. -Second position;- headlamps, taillamps, license lamps, instrument panel lamps and ash tray-glove box lamp. Rotate control knob clockwise to dim inst. panel lights and counter-clockwise to brighten & turn dome lamp and courtesy lamp.
Other light switches	Locations and lamps controlled	Map lamp switch - controls map lamp on instrument panel. Stop lamp switch - controls two stop lamps. Courtesy lamp switches located in door jam controls dome lamp and courtesy lamps when door is opened. Luggage compartment lamp switch controls luggage compartment lamp when door is open.
Other switches	Locations and devices controlled	Window lift switches located in door and quarter trim panels control windows. Master control in left front door incorporates a lock-out switch. Auto-trans. neutral & back-up lamp switch mounted on steering column. Convertible top switch mounted in left-hand door trim panel. Four-way seat switch mounted in seat side shield controls power seat. High beam switch located on floor, inside of vehicle, controls headlamps.
Windshield wiper	Make	Trico
	Type	Vacuum
	Vacuum booster provision	Yes
	Washer provision	Yes
Horn	Type	Air Electric
	Number used	Two
	Amp draw (each)	10

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MODEL All

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		Dual Headlight - 2-4001 & 2-4002
Headlamp beam indicator		1-2 CP 57
Parking		1034
Tail		1034
Stop		1034
Direction signal	Front	1034
	Rear	1034
	Indicator	2-3 CP 1816
License plate		2-67
Instrument		2-3 CP 1816 (Speedometer pod) 6-2 CP 57
Ignition lock		None
Back up		2-1141
Dome		1-15 CP 1003
Clock		2-3 CP - 1816
Radio		1-2 CP 57
Glove compartment	(Common to Ash Tray)	1-2 CP 57
Maplight		1-6 CP 89
Luggage Compt. Light		1-6 CP 89
Ash Tray Light		
Oil Pressure		1-2 CP 57
Generator Warning		1-2 CP 57
Auto. Trans. Range Ind.		1-1 CP 1445
o		

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MODEL All

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Direction indicator same as (a).

Headlamp	18 C.B. (a) Low Beam 18 C.B. (a) Hight Beam
Headlamp beam indicator	18 C.B. (a)
Parking lamp	SFE-15 Fuse (b)
Tail lamp	SFE-15 Fuse (b)
Stop lamp	SFE-15 Fuse (b)
Direction indicator	SFE-14 Fuse (c)
License plate lamp	SFE-15 Fuse (b)
Instrument lamp	SFE-15 Fuse (b)
Ignition lamp	None
Back up lamp	SFE-14 Fuse (c)
Dome lamp	SFE-15 Fuse (b)
Clock	SFE-1
Clock lamp	SFE-15 Fuse (b)
Radio	SFE-7.5 Fuse
Glove compartment lamp	SFE-14 Fuse (b)
Power Seats	30 C.B. (e)
Power Windows	15 C.B. -4 places & 30 C.B. (e)
Air Cond.	20 C.B.
Heater	SFE-14
Luggage Compt. Lamp	SFE-14 Fuse (b)
Map Light	SFE-14 Fuse (b)
Auto. Trans. Bulb	SFE-14 Fuse (b)
Top Control	45 C.B.
Ash Tray Light	SFE-14 Fuse (b)
Electric Washers	SFE-7.5 Fuse

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	21.44
		Highest	-----
	Stop		21.44
	Backup		17.9
	License, rear		19.19
	Directional	Front	16.45
		Rear	21.44
	Headlamp	Inside	23.03
		Outside*	23.03
Distance from C/L of car to center of bulb	Tail	Inside	31.13
		Outside	N.A.
	Stop		31.13
	Backup		13.80
	License, rear		6.75 In Bumper 2 req'd. sym. about ℄
	Directional	Front	28.16
		Rear	31.13
	Headlamp	Inside	21.43
		Outside*	28.00

* If single headlamps are used enter here.

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MODEL All

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Not Offered
Type pressure plate springs		
Effective plate pressure (lb.)		
No. of clutch driven discs		
Clutch facing	Material	
	Outside & inside dia.	
	Total eff. area (sq.in.)	
	Thickness	
	Engagement cushioning method	
Release bearing	Type & method of lubrication	
Torsional damping	Methods: springs, friction material	

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Not Offered
Manual with overdrive (std. or opt.)	Not Offered
Automatic (std. or opt.)	Dual Range

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			Not Offered
Transmission ratios	In first		
	In second		
	In third		
	In fourth		
	In reverse		
Synchronous meshing, specify gears			
Shift lever location			
Lubricant	Capacity (pt.)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
		Extreme cold	

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MODEL All

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)			Not Offered
	Manual lockout (yes, no)			
	Downshift acelerator control (yes, no)			
	Minimum cut-in speed			
	Gear ratio			
	Lubricant	Capacity (pt.) (Overdrive only)		
		Separate filler (yes, no)		
		Type recommended		
		SAE viscosity number	Summer	
			Winter	
			Ext. cold	

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Cruise-O-Matic
Type describe		Torque Converter with Three-Sped. Planetary Gears
Method of Selection (Lever, Push Button or other)		Lever
Selector Pattern		P-R-N-D2-D1-Lo
List gear ratios Selector Pattern and indicate which are used in each selector position		Lo: 2.40:1 / D1: 2.40:1, 1.47:1, 1.00:1 / D2: 1.47:1, 1.00:1 / Rev.: 2.00:1
Max. upshift speeds—drive range		75 MPH
Max. kickdown speeds—drive range		68 MPH
Torque convertor	Number of elements	Three
	Max. ratio at stall	2.1:1
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	
	Type recommended	Automatic Transmission Fluid-Type "A"
Special transmission features		

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DRIVE UNITS—PROPELLER SHAFT

Number used			One
Type (exposed, torque tube)			Exposed
Outer diameter x length* x wall thickness	Manual transmission		-----
	Overdrive transmission		-----
	Automatic transmission		2.75 x 51.93 x .065
Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		----
Universal joints	Make		Spicer-1310 &
	Number used		Two
	Type (ball and trunnion, cross, other)		Cross
	Bearing	Type (plain, anti-friction)	Needle Roller
		Lubric. (fitting, prepack)	Fittings
Drive taken through (torque tube or arms, springs)			Springs
Torque taken through (torque tube or arms, springs)			Springs

DRIVE UNITS—REAR AXLE

Description – (incl. limited slip differential)			Semi-floating, hypoid
Drive Pinion Offset			2.25
No. of differential pinions			Two
Gear ratio and No. of teeth	Manual transmission		3.00:1
	Overdrive transmission		----
	Automatic transmission		----
Ring gear pitch diameter & O.D.			8.75 x 1.375
Pinion adjustment (shim, other)			Shims
Pinion bearing adj. (shim, other)			Collapsible Spacer
Wheel bearing type			Single row, double sealed ball bearing
Lubricant	Capacity (pt.)		4.5
	Type recommended		Hypoid Extreme Pressure
	SAE viscosity number	Summer	SAE-90
		Winter	SAE-90
		Extreme cold	SAE-80

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

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AMA Specifications – Passenger Car

MAKE OF CAR Thunderbird MODEL YEAR 1961 DATE: ISSUED 11-10-60 REVISED (•)

MODEL All

DRIVE UNITS—WHEELS

Type & material		Stamped Steel Disc
Rim (size and flange type)		14 x 5.5 J
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.5
	Number and size	5 - 1/2-20

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.00 x 14-4 Ply. Rating
	Type - Nylon, etc.	Rayon Tubeless
Rev/mile at 30 mph.		777
Inflation press.(cold)	Front	24
	Rear	24

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)				Hydraulic, Duo Servo Fixed Anchor - Front and Rear
Power brake make & type (remote, integral, etc.)				Bendix - Atmosphere Suspended)- Alt. Midland-Ross - Vacuum Suspended)
Effective area (sq. in.)*				198
Gross lining area (sq. in.)**				234
Swept drum area (sq. in.)***				381
Percent brake effectiveness—front				55.5%
Drum	Diameter	Front		11.03 x 3.00
		Rear		11.03 x 2.50
	Type and material			Composite, Pressed Steel Disc & Cast Iron
Brake lining	Bonded or riveted			Riveted
	Front Shoe	Material		Molded Asbestoes
		Size (length x width x thickness)	Front wheel	9.35 x 3.0 x 0.219
			Rear wheel	9.35 x 2.5 x 0.219
		Segments per shoe		One
	Rear Shoe	Material		Molded Asbestoes
		Size (length x width x thickness)	Front wheel	11.96 x 3.0 x 0.250
			Rear wheel	11.96 x 2.5 x 0.250
		Segments per shoe		One
Wheel cylinder bore	Front			1.094
	Rear			.94
Master cylinder bore				1.0
Available pedal travel				4.75
Line pressure at 100 lb. pedal load				920 P.S.I.
Shoe clearance adjustment				0.010

* Excludes rivet holes, grooves, chamfers, etc.
** Includes rivet holes, grooves, chamfers, etc.
*** Total swept areas for four brakes:
Widest lining contact width for each brake x its drum circumference.

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AMA Specifications—Passenger Car

MAKE OF CAR Thunderbird MODEL YEAR 1961 DATE: ISSUED 11-10-60 REVISED

MODEL All

BRAKES—PARKING

Type of control		Foot Operated Left
Location of control		Foot Release Attached to the Left of Brake Control
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	------
	Drum diameter	------
	Lining size (length x width x thickness)	------

FRAME or UNITIZED CONSTRUCTION

Type and description	Unitized - Fully Welded Construction

SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)*

Provision for car leveling		None
Provision for brake dip control		12° Upper Arm - Anti-Dive
Provision for acc. squat control		Suspension Geometry - Front & Rear
Special provisions for car jacking		Bumper
Shock absorber front & rear	Type	Direct
	Make	Gabriel
	Piston dia.	1.18
Other special features		

SUSPENSION—FRONT

Type and description (a)	

(Continued) Rev. Form 3-59

(a) Independent SLA Suspension. Upper arm stamped hat section structure. Lower arm one-piece stamped construction consisting of a transverse leg and forward diagonal strut, outer ends of upper and lower arms are formed in a configuration which becomes a ball socket. Springs are mounted on upper arm. Ball joints and steering linkage are equipped with grease fittings.

* Air Suspension:
Air spring type
Compressor data
type
make
drive ratio
Normal operating pressures
spring rates
leveling data

MAKE OF CAR Thunderbird MODEL YEAR 1961 DATE: ISSUED 11-10-60 REVISED

MODEL All

SUSPENSION FRONT (cont.)

Spring	Type	Coil
	Material	Steel
	Size (coil design height & I.D.; bar length x dia.	10.27 x 4.18; 150.2 x .663
	Spring rate (lb. per in.)	295
	Rate at wheel (lb. per in.)	105
	Design load (lb. @ design height)	1930
Stabilizer	Type (link, linkless, frameless)	Link (Frame Mounted)
	Material & bar diameter	.66

STEERING

Mechanical (std., opt., NA)				N.A.
Power (std., opt., NA)				Std.
Wheel diameter				16"
Turning diameter	Outside front	Wall to wall (l. & r.)		43.1
		Curb to curb (l. & r.)		40.2
	Inside rear	Wall to wall (l. & r.)		23.4
		Curb to curb (l. & r.)		24.0
Outside wheel angle with inside wheel at 20°				
Mechanical	Gear	Type		Not Offered
		Make		
		Ratios	Gear	
			Overall	
	No. wheel turns			
Power	Type (coxial, linkage, etc.)			Integral
	Make			Ford
	Trade name			XR-49
	Gear	Type		Recirculating Ball & Nut
		Ratios	Gear	16.75
			Overall	20.31
	Pump driven by			Belt
	Number wheel turns			3.6
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Rear
	Drag link (trans. or longit.)			Transverse
	Tie rods (one or two)			Two

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR Thunderbird MODEL YEAR 1961 DATE: ISSUED 11-10-60 REVISED

MODEL All

STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		6° 45' with 10 camber (Curb)
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
		Thrust	Upper Ball
Wheel alignment (range and preferred)	Caster (deg.)		$-\frac{1}{4}^{\circ}$ to $-1\frac{1}{4}^{\circ}$ - (Curb Load)
	Camber (deg.)		0° to $+1^{\circ}$
	Toe-in (outside tread-inches)		$\frac{1}{16}$ - $\frac{3}{16}$
Steering spindle & joint type			Ball Socket Joints
Wheel spindle	Diameter	Inner bearing	1.12 I.D.
		Outer bearing	.75 I.D.
	Thread size		.75 - 16 NF3
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description				Hotchkiss	
Drive and torq. taken through (see page 15)				Springs	
Spring	Type			Leaf	
	Material			Spring Steel - SAE-5160	
	Size (length x width, coil design height and I.D.; bar length & dia.)			60.0 x 2.5	
	Spring rate (lb. per in.)			105	110 *
	Rate at wheel (lb. per in.)			105	110 *
	Design load (lb. at design height)			880	920 *
	Mounting insulation type			Rubber Pads	
	If leaf	No. of leaves		4	
		Inserts	Type and size	Leaf Tips	
			Material	Plastic or Wax, Impregnated Cloth	
		Shackle (comp. or tens.)		Tension	
Stabilizer	Type (link, linkless, frameless)			None	
	Material			None	
Track bar type				None	

* Convertible

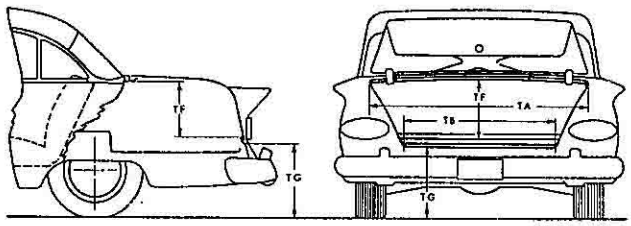
MAKE OF CAR THUNDERBIRD **MODEL YEAR** 1961 **DATE: ISSUED** 11-10-60 **REVISED** _____

BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Sub-Committee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., HA. Symbol "a" added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Body Dimensions are for all basic body models as indicated.
2. All interior dimensions are taken 15" outboard of car centerline (C/L) unless otherwise stated.
3. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
4. Depressed "A" point is the lowest point on the seat cushion depressed contour.
5. Front seat is in full down and normal rear position.
6. Unless otherwise specified all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
7. DLO (Daylight opening – pages 22 & 24).
8. For further clarification of definitions see SAE Aeronautical—Automotive Drawing Standards, Section E-1.

BODY—TRUNK DIMENSIONS



MODEL	63A	76A
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)		
Total trunk volume in cu. ft. with spare tire in place	20.1	15.7
TA—Width across the top	64.9	
TB—Width across the bottom	65.2	
TF—Vertical dimension at C/L from bottom to top of opening	7.7	
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal – loaded)	24.2	24.2
Position of spare tire stowage	Front of Trunk on Floor	
Method of holding lid open	Spring Counterbalance	

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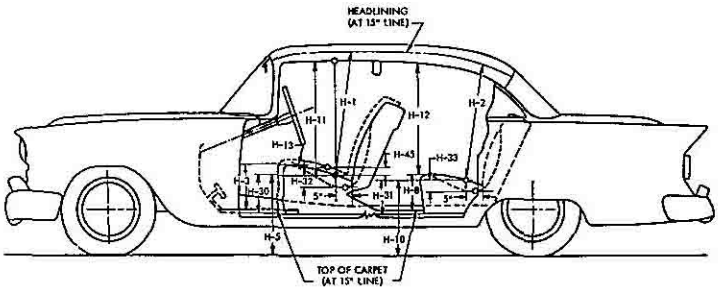
BODY—HEIGHT DIMENSIONS—INTERIOR



MODEL	63A	76A
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	34.2	35.8
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	33.1	33.9
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	12.1	12.1
H5. Free "A" pt. to ground, front. Measured vertically	17.4	17.4
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	12.6	
H10. Free "A" point to ground rear. Measured vertically	17.4	
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	30.9	30.8
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	---	
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	6.1	
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	10.3	
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	10.4	
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	3.7	
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.9	
H45. Front seat maximum vertical rise at free "A" point	.70	

AMA Specifications– Passenger Car

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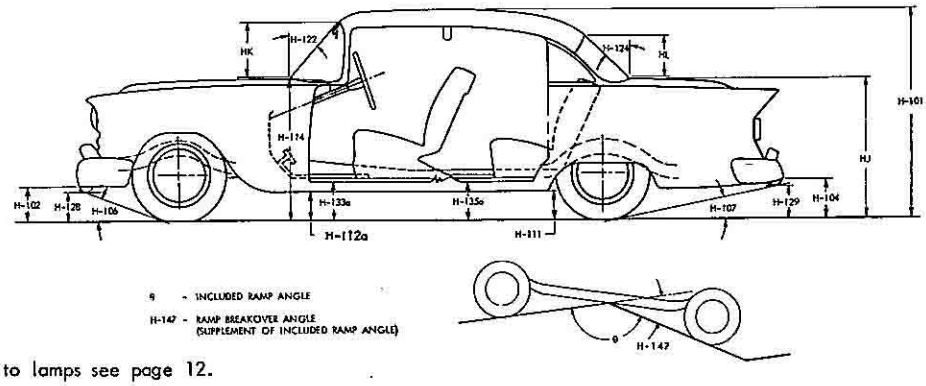
BODY—HEIGHT DIMENSIONS—EXTERIOR



θ - INCLUDED RAMP ANGLE
H-147 - RAMP BREAKOVER ANGLE (SUPPLEMENT OF INCLUDED RAMP ANGLE)

NOTE: For dimensions to lamps see page 12.

MODEL	63 A	76A
H101. Overall height, full design load	52.5	53.3
HB. Overall height, curb weight	53.9	54.7
H102. Front bumper bottom to ground at normal section, min. height	9.1	
H104. Rear bumper bottom to ground at normal section, min. height	9.1	
H106. Angle of approach. To interfering point on bumper, guard, other	19.0 °	
H107. Angle of departure. To interfering point on bumper, guard, other	12.2 °	
H111. Body Sill to Ground-Rear. Vertical dimension measured from bottom of body sill (rocker panel), excluding any flanges, to ground at front of rear wheel opening.	6.56	
H112a. Body Sill to Ground-Front. Measured vertically at foremost point of body sill (rocker panel), excluding flanges and front fender.	6.56	
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	36.0	
H122. Windshield normal slope angle to vertical line on car C/L	55.0 °	
H124. Backlight normal slope angle to vertical line on car C/L	50.0 °	47.0 °
H128. Bottom of front bumper guard to ground	9.1	
H129. Bottom of rear bumper guard to ground	---	
H133a. Bottom of front door to ground, min. dimension	10.0	
H135a. Bottom of rear door to ground, min. dimension	---	
H147. Ramp breakover angle	11.7 °	
H153. Min. road clearance at rear axle	7.3	
H156. Min. road clearance and location	* 5.2	
HJ. Deck at rear window to ground	33.2	33.1
HK. Windshield DLO*. Vertical height at C/L	28.4	
HL. Back light DLO*. Vertical height at C/L	21.6	18.2

* See Note, page 20

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* At Rear Spring Front Hanger

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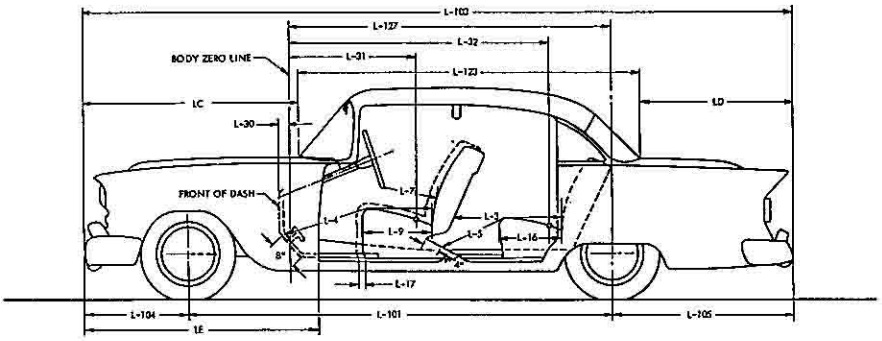
BODY—LENGTH DIMENSIONS



MODEL		63A	76A
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	25.9	
	L4. Leg room, front. Ball of foot to top of seat to seat back	44.4	
	L5. Leg room, rear. Ball of foot to top of seat to seat back	37.7	
	L7. Steering wheel clearance to seat back taken on arc	14.6	
	L9. Front seat depth. Front edge to vert. tan. of seat back	19.1	
	L16. Rear seat depth. Front edge to vert. tan. of seat back	19.1	
	L17. Maximum "A" point horizontal travel with normal seat adjustment	.70	
	L30. Vertical body zero line to actual front of dash. Measured horizontally*	3.1	
	L31. Vertical body zero line to free "A" point, front	41.3	
	L32. Vertical body zero line to free "A" point, rear	71.6	
Exterior	L101. Wheelbase	113.0	
	L103. Overall length. Incl. bumper guards if standard equipment	205.0	
	L104. Overhang, front. Include bumper guards if stand. eq.	38.2	
	L105. Overhang, rear. Include bumper guards if stand. eq.	53.8	
	L123a. Body upper structure length at C/L, excl. molding	96.9	98.6
	L127. Vertical body zero line to centerline of rear wheels	92.3	
	LC. Front of car to base windshield, excl. molding	64.8	
	LD. Rear of car to base of rear window or upper structure, excl. molding	43.3	41.6
	LE. Front of car to front edge of front door	73.4	

* Precede figure with minus sign if front of dash is to rear of body zero line.

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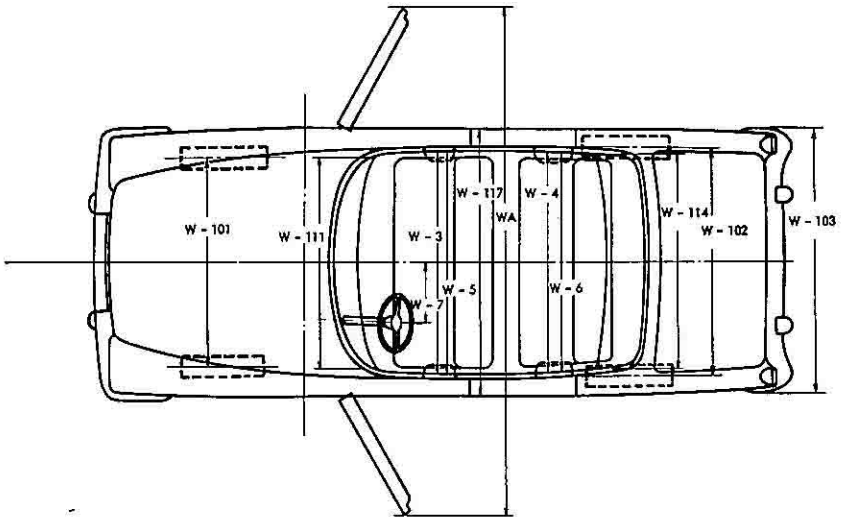
BODY—WIDTH DIMENSIONS



MODEL		63A	76A
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	58.0	
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	55.6	
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back	59.0	
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back	52.3	
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	16.3	
Exterior	W101. Front tread at ground	61.0	
	W102. Rear tread at ground	60.0	
	W103. Max. overall width of car incl. bumpers or moldings (specify location).	* 75.9	
	WA. Max. overall width of car with doors open (2 & 4 door)	170.1	
	W111. Windshield DLO, max. width	60.1	
	W114. Back window DLO, max. width	61.8	
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)	* 75.9	
	W117. Max. body width at center pillar, less hardware and applied moldings	75.9	

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* At Rear Wheel CL

MAKE OF CAR THUNDERBIRD MODEL YEAR 1961 DATE: ISSUED 11-10-60 REVISED (•)

MODEL

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front	
	Rear doors	-----	
Type of finish (lacquer, enamel, other)		Enamel	
Hood hinge location (front, rear)		Rear	
Hood counterbalanced (yes, no)		Yes	
Hood release control (internal, external)		External	
Vehicle (Serial) No. Location		Left Door Pillar	
Engine No. Location		On Engine Block	
Theft protection - type		Door Locks - Theft Retardent Ignition Switch	
Vent window control method (crank, friction pivot)	Front	Friction Pivot	
	Rear	-----	
Seat cushion type	Front	Zigzag	
	Rear	Zigzag	
Seat back type	Front	Zigzag	
	Rear	Zigzag	
Windshield type (single curved, compound curved, other)		Compound Curved	
Rear window type (flat, curved, one piece, three piece)		Flat	
Side glass type (curved, flat)		Curved	
Side glass exposed surface area		1177	1177
Windshield glass exposed surface area		1473	1473
Backlight glass exposed surface area		1164	1012
Total glass exposed surface area		3814	3662

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MAKE OF CAR THUNDERBIRD MODEL YEAR 1961 DATE: ISSUED 11-10-60 REVISED

MAJOR OPTIONAL ITEMS - WEIGHTS

Model	CURB - WEIGHT - POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING * WEIGHT
HT 63A			4117	45.13	54.87	18.60	81.40	3958
conv 76A			4289	45.13	54.87	18.60	81.40	4130

Accessories & Equipment Differential Weights	Front	Rear	Total	Remarks
*Selectaire Air Cond.& Htr.	113	-1	112	
Fender Shields	0	8	8	
Four-way Electric Seat	9	11	20	
Heavy Duty (70 amp batt.)	9	-1	8	
Radio Push Button	6	3	9	
*Windshield Washer	3	0	3	
Power Windows	9	12	21	
Steering Column Moveable	7	3	10	
Electric Clock	1	0	1	
Mirror & Spotlight	3	1	4	

* Includes 2 pounds for water.

* These are weights that are reported to states for licensing purposes.

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