AUTOMOBILE MANUFACTURERS ASSOCIATION
CONSOLIDATED SPECIFICATION QUESTIONNAIRE

MAKE OF CAR:	FORD THUNDERBIRD	**MODEL NAME**	**SYMBOL**
COMPANY:	FORD MOTOR COMPANY FORD DIVISION	THUNDERBIRD (CONVERTIBLE) THUNDERBIRD (HARDTOP)	40A 40B
MODEL YEAR:	1956	**DATE** OCTOBER 28, 1955	

REVISED NOVEMBER 11, 1955

TABLE OF CONTENTS

NOTES: 1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice.
2. All specifications are standard for the models under which they are listed unless otherwise indicated.
3. All dimensions are nominal engineering dimensions unless otherwise indicated.
4. Unless otherwise indicated, specifications apply to 5 or 6 passenger, 4-door sedan or equivalent.

GENERAL SPECIFICATIONS

Model		292[a] CU. IN.	312[b] CU. IN.
Wheelbase			102"
Tread	Front		56"
	Rear		56"
Maximum Overall Dimensions	Length (L-103)		185.1
	Width (W-103)		71.3
	Height (H-101)		SEE PAGE 20-A
Steering ratio—overall			20.1:1
Turning diameter (curb to curb)			38.50
Shipping weight*		N.A.	N.A.
Transmission—(Specify standard, optional, not avail.)	Conventional	STANDARD	
	Overdrive		STANDARD[c]
	Automatic		STANDARD[d]
Axle ratio	Conventional	3.73:1	
	Overdrive		3.92:1
	Automatic		3.31:1
Tire size			6.70 X 15 - 4 PLY
Engine	Type		90° "V"
	No. of cylinders		8
	Valve arrangement		OVERHEAD
	Bore and stroke	3.75 X 3.30	3.80 X 3.44
	Piston displacement, cu. in.	292	312
	Standard compression ratio	8.4:1	[c]8.4 OR [d]9.0:1
	Maximum bhp at engine rpm	202 @ 4600	[c]215 OR [d]225 @ 4600
	Maximum torque at rpm	289 @ 2600	[c]317 OR [d]324 @ 2600

*Standard car weight, not including gas and water.
[a]USED WITH 3-SPEED TRANSMISSION ONLY
[b]USED WITH OVERDRIVE OR AUTOMATIC TRANSMISSION ONLY
[c]OVERDRIVE TRANSMISSION ONLY
[d]AUTOMATIC TRANSMISSION ONLY

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			292[a] CU. IN.	312[b] CU. IN.
ENGINE—GENERAL				
Type	V, In-line, other			"V"
	Angle of V			90°
No. of cylinders				8
Valve arrangement				OVERHEAD
Bore and stroke			3.75 X 3.30	3.8 X 3.44
Piston displacement, cu. in.			292	312
Numbering system (front to rear)	L. Bank			5-6-7-8
	R. Bank			1-2-3-4
Firing order				1-5-4-8-6-3-7-2
Compression ratio	Standard Head		8.4:1	[c]8.4 OR [d]9.0:1
	Optional Head			NONE
Cylinders	Head Material	Standard		CAST IRON
		Optional		NONE
	Sleeve—Wet, dry, other, none			NONE
Number of mounting points		Front		1
		Rear		1
Taxable horsepower	(Dia.^{2} x No. Cyl.) / 2.5		45.00	46.21
Advertised max. brake horsepower at engine RPM*	Standard head		202 @ 4600	[c]215 OR [d]225 @ 4600
	Optional head			NONE
	With fuel (Octane and method)	Standard Head		PREMIUM
		Optional Head		NONE
Max. torque (lb. ft. @ RPM)	Standard head		289 @ 2600	[c]317 OR [d]324 @ 4600
	Optional head			NONE
Recommended idle speed (neutral)				475-500 RPM
ENGINE—PISTONS				
Material				ALUMINUM ALLOY
Description and finish				AUTOTHERMIC, FLAT HEAD SOLID SKIRT, CAM GROUND TIN PLATED
Weight (piston only) oz.			N.A.	N.A.
Clearance	Top land			.0230-.0284
	Skirt	Top		.0010-.0024
		Bottom		.0006-.0012
Ring groove depth	No. 1 ring		.1926-.1940	.2045-.2107
	No. 2 ring		.1926-.1940	.2045-.2107
	No. 3 ring		.1735-.1802	.1867-.1905
	No. 4 ring			NONE

*Corrected as defined by SAE Engine Test Code, with the following standard power consuming accessories:

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AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			292[a] CU. IN.	312[b] CU. IN.
ENGINE—RINGS				
Type (top to bottom)	No. 1 oil or comp.		COMPRESSION	
	No. 2 oil or comp.		COMPRESSION	
	No. 3 oil or comp.		OIL CONTROL	
	No. 4 oil or comp.		NONE	
No. rings above piston pin			3	
Compression	Material		CAST IRON	
	Coating		TOP RING - CHROME-PLATED 2nd RING - PHOSPHATE-COATED	
	Width		.0930-.0935	
	Gap		.010-.020	
	Maximum wall thickness		.181	.168
Oil	Material		STEEL	
	Coating		CHROME-PLATED	
	Width		.183	
	Gap		.015-.055	
	Maximum wall thickness		.177	.158
Location of expanders			IN OIL RING ASSEMBLY	
ENGINE—PISTON PINS				
Material			ALLOY-STEEL	
Length			3.016-3.030	3.022-3.028
Diameter			.9120-.9123	
Type	Locked in rod, in piston, floating, etc.		FULL-FLOATING	
	Bushing	In rod or piston	IN ROD	
		Material	BRONZE	
Clearance	In piston		.0001-.0003	
	In rod		.0001-.0003	
Direction offset in piston			RIGHT - .062	
ENGINE—CONNECTING RODS				
Material			FORGED STEEL	
Weight (oz.)			24.06	23.04
Length (center to center)			6.320-6.324	6.250-6.254
Bearing	Material		STEEL-BACKED COPPER-LEAD	
	Type (cast-in or removable)		REPLACEABLE INSERT	
	Effective length		.711	
	Clearance		.0008-.0027	
	End play		.006-.016 TWO RODS	
ENGINE—CRANKSHAFT				
Material			PRECISION-MOLDED, ALLOY IRON	
Weight (lb.)			50.43	

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AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			292[a] CU. IN.	312[b] CU. IN.
ENGINE—CRANKSHAFT (cont.)				
Vibration damper type			RUBBER FLOATED	
End thrust taken by bearing (No.)			3	
Crankshaft end play			.002-.006	
Main bearing	Material		STEEL-BACKED COPPER-LEAD	
	Type (cast-in or removable)		REPLACEABLE INSERT	
	Clearance		.0008-.0026	
	Journal dia. and bearing effective length	No. 1	2.4980-2.4988 x .728	2.6235-2.6243 x .688
		No. 2	2.4980-2.4988 x .728	2.6235-2.6243 x .688
		No. 3	2.4980-2.4988 x .662	2.6235-2.6243 x .662
		No. 4	2.4980-2.4988 x .728	2.6235-2.6243 x .688
		No. 5	2.4980-2.4988 x .728	2.6235-2.6243 x .688
		No. 6	NONE	
		No. 7	NONE	
	Direction offset from cyl. bore		NONE	
Connecting rod crankpin journal diameter			2.1880-2.1888	
ENGINE—CAMSHAFT				
Material			PRECISION-MOLDED ALLOY IRON	
Bearings	Material		STEEL-BACKED BABBITT	
	Number		5	
Type of drive	Gear or chain		CHAIN	
	Crankshaft gear or sprocket material		STEEL	
	Camshaft gear or sprocket material		CAST IRON	
	Timing chain	Make	---	
		No. of links	56	
		Width	.9375	
		Pitch	.375	
ENGINE—VALVE SYSTEM				
Hydraulic lifters (yes, no)			NO	
Special provision for valve rotation (intake, exhaust)			FREE-TURN INTAKE AND EXHAUST VALVES	
Rocker ratio			1.54:1	
Operating tappet clearance (indicate hot or cold)	Intake		.019 HOT	
	Exhaust		.019 HOT	
Tappet clearance for timing	Intake		.019 HOT	
	Exhaust		.019 HOT	
Timing marks on fly-wheel, damper, other			VIBRATION DAMPER	

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AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			292[a] CU. IN.	312[b] CU. IN.
ENGINE—VALVE SYSTEM (cont.)				
Timing	Intake	Opens (°BTC)	12	
		Closes (°ABC)	54	
	Exhaust	Opens (°BBC)	58	
		Closes (°ATC)	8	
Intake	Material		CHROME STEEL	
	Overall length		5.11	
	Actual overall head dia.		1.775-1.785	
	Angle of seat		45° 30' - 45° 45'	
	Seat insert material		NONE	
	Stem diameter		.3415-.3425	
	Stem to guide clearance		.001-.002	
	Lift		.386	
	Outer spring press. and length	Valve closed (lb. @ in.)	71-79 @ 1.78	
		Valve open (lb. @ in.)	161-177 @ 1.39	
	Inner spring press. and length	Valve closed (lb. @ in.)	NONE	
		Valve open (lb. @ in.)	NONE	
Exhaust	Material		AUSTENITIC STEEL	
	Overall length		5.09	
	Actual overall head dia.		1.505-1.515	
	Angle of seat		45° 30' - 45° 45'	
	Seat insert material		NONE	
	Stem diameter		.3405-.3415	
	Stem to guide clearance		.002-.003	
	Lift		.384	
	Outer spring press. and length	Valve closed (lb. @ in.)	71-79 @ 1.78	
		Valve open (lb. @ in.)	161-177 @ 1.39	
	Inner spring press. and length	Valve closed (lb. @ in.)	NONE	
		Valve open (lb. @ in.)	NONE	

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	PRESSURE
	Connecting rods	PRESSURE
	Piston pins	OIL MIST
	Camshaft bearings	PRESSURE
	Tappets	GRAVITY
	Timing gear or chain	GRAVITY
	Cylinder walls	PRESSURE STREAM

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AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL	292[a] CU. IN.	312[b] CU. IN.

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	GEAR	
Normal oil pressure (lb. @ rpm)	45-50 @ 2000	
Oil pressure gage type (electric or mechanical)	ELECTRICAL	
Type oil intake (floating, stationary)	STATIONARY	
Oil filter type (full flow, partial flow)	FULL FLOW	
Capacity of crankcase, less filter—refill (qt.)	5	
Oil grade recommended (SAE viscosity and temperature range)	ABOVE +30°F. SAE 20 OR 20W ABOVE -10°F. SAE 10 OR 10W BELOW -10°F. SAE 5W	
Oil type recommended	NORMAL SERVICE - ML - LOW DETERGENCY HEAVY DUTY - MM - MILD DETERGENCY	

ENGINE—FUEL SYSTEM

Recommended fuel	Standard head		PREMIUM	
	Optional head		NONE	
Fuel Tank	Capacity (gals.)		17.5	
	Filler Location		BELOW DECK LID	
Fuel Filter	Type		POROUS FIBER	
	Location		BETWEEN FUEL PUMP AND CARBURETOR	
Fuel pump	Type (elec. or mech.)		MECHANICAL DIAPHRAGM	
	Location		LOWER LEFT FRONT	
	Pressure range		4-5 PSI @ IDLE	
	Vacuum booster (std., optl., none)		OPTIONAL	STANDARD
Carburetor	Make		---	
	Model number		---	
	Number used		ONE	
	Type	Downdraft, side inlet, other	DOWNDRAFT	
		Single or dual	4-BARREL	
	Intake manifold heat control (manual, auto., none)		AUTOMATIC	
	Automatic choke type (integral, other)		INTEGRAL	
	Air cleaner type	Standard	OIL BATH	
		Optional	NONE	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	DUAL	
Muffler type (rev. flow, str. thru, sep.resonator)	THREE PASSAGE	
Exhaust pipe dia.	Branch	---
	Main	2.00
Tail pipe diameter	1.75	

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AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955
REVISED--NOVEMBER 11, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL	292[a] CU. IN.	312[b] CU. IN.

ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)				PRESSURE SYSTEM
Radiator cap relief valve press.				13 PSI
Circulation thermostat	Type (choke, bypass)			CHOKE, PELLET-OPERATED
	Starts to open at			157-162°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)				CORRUGATED FIN AND TUBE
Cooling system capacity	With heater (qt.)			* 21.0
	Without heater (qt.)			* 20.0
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 MOLDED
		Inside diameter and length		2.00 X 13.3 (DEVELOPED)
	Upper	Number and type (molded, straight)		ONE MOLDED
		Inside diameter and length		1.75 X 19.8 (DEVELOPED)
	By-pass	Number and type (molded, straight)		ONE STRAIGHT
		Inside diameter and length		.578-.640 X 4.25
Drive belts	Fan	Number used		ONE
		Angle of V		38°
		Outside length		40.90 @ P.D.
		Width		.50
	Generator	Angle of V		SAME BELT
		Outside length		USED ON
		Width		FAN
Fan	Number of blades and spacing			4 - UNEQUAL
	Diameter			18.0
	Ratio—fan to crankshaft revolutions			.97:1
	Bearing type			SAME AS WATER PUMP

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*REVISED 11-11-55

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

			MODEL 40A	40B
ELECTRICAL—SUPPLY SYSTEM				
Battery	Make and Model		VARIOUS	
	Voltage Rtg. & Plates/cell		12 VOLTS	11 PLATES/CELL
	SAE Designation & Amp Hr. Rtg		55	
	Location		ENGINE COMPARTMENT - LEFT REAR	
	Terminal grounded		NEGATIVE	
Generator	Make		FORD	
	Model		FBY-10000-C	
	Type		SHUNT	
	Ratio—Gen. to Cr/s rev.		2 TO 1	
Regulator	Make		FORD	
	Model		FAP-10505-B OR C	
	Type		3-COIL	
	Cutout relay	Closing voltage @ generator rpm	12.0 - 12.8	
		Reverse current to open	2-6	
	Regulated	Voltage	14.6-15.4 @ 75° F.	
		Current	28-32	
	Min. Gen. rpm required		3000	
	Voltage test conditions	Temperature	75° F.	
		Load	5 AMPS	
		Other		
ELECTRICAL—STARTING SYSTEM				
Starting motor	Make		FORD	
	Model		FAR-11001-A	
	Rotation (drive end view)		CLOCKWISE	
	Engine cranking speed		150-180	
	Test conditions		85° F.	
	Lock test	Amps	550	
		Volts	5	
		Torque (lb. ft.)	15.5	
	No load test	Amps	120	
		Volts	12	
		RPM (min.)	4800	
Motor control	Switch (solenoid, manual)		SOLENOID	
	Starting procedure		TURN IGNITION KEY TO RIGHT BEYOND THE "ON" POSITION	

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			40A	40B
ELECTRICAL—STARTING SYSTEM (cont.)				
Motor drive	Engagement type		BENDIX FOLO-THRU	
	Pinion meshes (front, rear)		REAR	
	Number of teeth	Pinion	9	
		Flywheel	146	
	Flywheel tooth face width		3/8 IN.	
ELECTRICAL—IGNITION SYSTEM				
Coil	Make		FORD	
	Model		FAC-12029-A	
	Amps	Engine stopped	4.5	
		Engine idling	2.5	
Distributor	Make		HOLLEY	
	Model		FEF-12127-B	
	Spark advance data (at distributor shaft)	Centr. advance start (rpm)	NONE	
		Centr. advance max. deg. @ rpm	NONE	
		Vacuum advance start (in. Hg.)	.29	
		Vac. adv. (max. deg. @ in. Hg.)	13.5° @ 2.19	
	Breaker gap (in.)		.014-.016	
	Cam angle (deg.)		26° - 28.5°	
	Breaker arm tension (oz.)		17-20	
Timing	C/S deg. @ rpm		3° STD. & O/D; 6° AUTO.	
	Mark location		VIBRATION DAMPER	
	Cylinder numbering system (see page 2)		L. BANK 5-6-7-8 R. BANK 1-2-3-4	
	Firing order (see page 2)		1-5-4-8-6-3-7-2	
Spark plug	Make and model		CHAMPION 870	
	Thread (mm)		18	
	Tightening torque (lb. ft.)		20-25 PROD. INST. ONLY	
	Gap		.032-.036	
Cable	Conductor type		STRANDED STEEL	
	Insulation type		NEOPRENE SHEATH	
	Spark plug protector		NEOPRENE CAP	
ELECTRICAL—SUPPRESSION				
Description				

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL		40A	40B

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	KING SEELEY	
	Trip odometer (yes, no)	NO	
Charge indicator—type		WARNING LAMP	
Temperature indicator—type		ELECTRIC GAGE	
Oil pressure indicator—type		WARNING LAMP	
Fuel indicator—type		ELECTRIC GAGE	
Ignition switch	Identify positions in order and circuits controlled	TO LEFT - ACCESSORIES ON CENTER - ACCESSORIES AND ENGINE OFF TO RIGHT - 1ST POSITION: ACCESSORIES AND ENGINE ON 2ND POSITION: STARTER AND ENGINE ON	
	Provision for illumination	LIGHTED WITH INSTRUMENT PANEL LIGHTS "ON"	
	Location	LOWER LEFT SIDE OF INSTRUMENT PANEL	
	Theft protection type		
Main lighting switch	Identify positions and lights controlled	PULL OUT - 1ST POSITION: PARKING, TAIL, LICENSE AND INSTRUMENT PANEL LIGHTS 2ND POSITION: HEAD, TAIL, LICENSE AND INSTRUMENT PANEL LIGHTS ROTATE KNOB CLOCKWISE TO DIM INSTRUMENT PANEL LIGHTS	
Other light switches	Locations and lamps controlled	TOE BOARD HEADLAMP DIMMER SWITCH. MAP LAMP SWITCH INTEGRAL WITH MAP LAMP ON INST. PANEL. COURTESY LAMP SWITCHES IN DOOR PILLARS OPERATE MAP LAMP. STOP LIGHT SWITCH IN BRAKE LINE ON TOP OF FRAME IN ENGINE COMPARTMENT LEFT SIDE. ROAD LAMP SWITCH ON BRACKET UNDER INST. PANEL. BRAKE WARNING LAMP ON HAND BRAKE CONTROL.	
Other switches	Locations and devices controlled	POWER SEAT SWITCH IN LEFT DOOR TRIM MOLDING. POWER WINDOW SWITCHES ON DOOR TRIM PANELS. COMBINED AUTO. TRANS. NEUTRAL SWITCH & BACK-UP LAMP SWITCH ON TRANSMISSION SHIFTER TOWER. TURN SIGNAL SWITCH IN STEERING COLUMN HUB. HEATER BLOWER SWITCH ON INST. PANEL. OVERDRIVE KICKDOWN SWITCH UNDER ACCELERATOR PEDAL.	
Windshield wiper	Make	TRICO	
	Type	VACUUM	
	Vacuum booster provision	OPTIONAL	
	Washer provision	OPTIONAL	
Horn	Type	AIR-ELECTRIC	
	Number used	TWO	
	Amp draw (each)	10 MAX.	

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL	40A	40B

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-4030.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamp		2-5400
Headlamp beam indicator		1-57
Parking light		2-1034
Tail light		2-1034
Stop light		SEE TAIL LIGHT
Direction indicator	Front	SEE PARKING LIGHT
	Rear	SEE TAIL LIGHT
	Tell-Tale	2-53*
License plate light		2-67
Instrument light		4-57 (2 FOR SPEEDOMETER AND 2 FOR OIL AND GENERATOR WARNING LIGHTS)
Ignition lock light		1-57
Map light		1-89
Dome light		NONE
Clock light		1-57 AND TACHOMETER 1-57
Radio dial light		1-57*
Glove compartment light		NONE
Courtesy light		SEE MAP LIGHT
Trunk compartment light		NONE
Other		R.H. AIR OR BLOWER SWITCH LIGHT 1-57; HEATER CONTROL 1-57*
		L.H. AIR AND EXT. LIGHTING SWITCH LIGHT 1-57;
		BACK-UP LIGHTS 2-1073*; CIGAR LIGHTER AND W/S WIPER LIGHT 1-57
		TRANS. SELECTOR QUADRANT LIGHT 1-67*; HAND BRAKE WARNING LIGHT 1-57*
		ROAD LAMPS 2-4415 (CLEAR) OR 4415A (AMBER)*

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 light: SFE-10 (a), Direction indicator: same as (a).

Headlamp	12 C.B. (a)
Headlamp beam indicator	SAME AS (a)
Parking light	12 C.B. (b)
Tail light	SAME AS (b)
Stop light	SAME AS (b)
Direction indicator	SFE 7.5
License plate light	SAME AS (b)
Instrument light	SAME AS (b)
Ignition light	SAME AS (b)
Map light	SFE 7.5 (c)
Dome light	NONE
Clock	MOTOCHRON - NOT FUSED
Clock light	SAME AS (b)
Radio	6-TUBE 1AG 5; 9-TUBE SFE 7.5
Glove compartment light	NONE
Courtesy light	SAME AS (c)
Trunk compartment light	NONE
Other	*CIGAR LIGHTER - THERMAL FUSE; BACK-UP LIGHTS - SAME AS (b)
	HEATER BLOWER SFE 14; OVERDRIVE 3AG 15;
	POWER SEAT AND WINDOWS AS FOLLOWS: ONE 30 C.B. (LINE PROTECTOR); ONE 15 C.B. (EACH WINDOW MOTOR);
	ONE 15 C.B. (COMMON TO BOTH SEAT MOTORS) (ONE 15 C.B. SEAT SW. LINE PROTECTOR) *CIRCUIT BRKR. ON BACK OF SOCKET-ALT. DESIGN.

AMA Consolidated Specification Questionnaire

CCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			40A	40B
DRIVE UNITS—CLUTCH (PEDAL OPERATED)				
Make			LONG	
Type (dry or wet plate)			DRY	
In combination with fluid coupling (yes, no)			NO	
Semi-centrifugal (yes, no)			YES	
Type pressure plate springs			COIL	
Total plate pressure (lb.)			1395	
No. of clutch driven discs			ONE	
Clutch facing	Material		WOVEN ASBESTOS	
	Inside diameter		7.0"	
	Outside diameter		11.0"	
	Total eff. area (sq. in.)		113.10	
	Thickness		0.125	
	Number required		TWO	
	Engagement cushioning method		TORBEND DISC WITH SPRING VIBRATION DAMPER	
	Release bearing	Type	BALL THRUST	
		Method of lubrication	PREPACKED	
	Torsional damping	Method (springs, other)	SPRINGS	
		Frict. mat.	STEEL	
DRIVE UNITS—TRANSMISSIONS				
Conventional (std. or opt.)			STANDARD	
Conventional with overdrive (std. or opt.)			OPTIONAL	
Automatic (std. or opt.)			OPTIONAL	
DRIVE UNITS—CONVENTIONAL TRANSMISSION				
Number of forward speeds			THREE	
Transmission ratios	In first		2.32	
	In second		1.48	
	In third		1.00	
	In fourth		---	
	In reverse		2.82	
Constant mesh gears in 2nd (yes, no)			YES	
Spur gear used in (indicate speeds)			NONE	
Helical gears used in (indicate speeds)			ALL	
Synchronous meshing in 2nd and 3rd gears (yes, no)			YES	

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			40A	40B

DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

Lubricant	Capacity (pt.)		3
	Type recommended		MULTI PURPOSE
	SAE viscosity number	Summer	80
		Winter	80
		Extreme cold	75

DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

Overdrive	Type (planetary or other)		PLANETARY
	If planetary, No. of pinions		3
	Manual lockout (yes, no)		YES
	Downshift accelerator control (yes, no)		YES
	Minimum cut-in speed		27 MPH
	Gear ratio		0.72
	Lubricant: Capacity (O.D. only)		1.5 PINTS
	Lubricant: Separate filter (yes, no)		NO
	Lubricant: Type recommended		MULTI PURPOSE
	Lubricant: SAE viscosity number	Summer	80
		Winter	80
		Ext. cold	75

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	FORDOMATIC
Type (fluid coupling with gears, torque convertor with gears, other)	TORQUE CONVERTER WITH PLANETARY GEARS
Manual selector positions, left to right (show symbols and define, e.g., N- Neutral)	P PARK R REVERSE N NEUTRAL DR DRIVE LO LOW
List gear ratios in each drive position (range)	DRIVE 1.46-1.00 PLUS TORQUE CONVERTER* LOW 2.40 PLUS TORQUE CONVERTER REVERSE 2.00 PLUS TORQUE CONVERTER *2.40-1.00 AT FULL THROTTLE THROUGH DETENT PLUS TORQUE CONVERTER
Shifting within drive position range by accelerator control and speed limiting governor (yes, no)	YES
By governor—forced shift (yes, no)	YES
Downshift of gears in high range possible up to (mph)	UP TO 65 MPH

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			40A	40B
DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)				
Torque convertor	Number of elements		3	
	Max. ratio at stall at engine rpm		2.1 TO 1 @ 1610-1810	
	Mechanical lockup	Provided (yes, no)	NO	
		Speed range	---	
		Releases at (speed range, mph)	---	
	Type of cooling (forced air, oil cooler and type, other)		FORCED AIR	
	Anti-creep device (yes, no)		NO	
Lubricant	Capacity—refill (pt.)		N.A.	
	Type recommended		AUTOMATIC TRANSMISSION	
	Grade	Summer	TYPE A	
		Winter	TYPE A	
		Extreme cold	TYPE A	
DRIVE UNITS—PROPELLER SHAFT				
Number used			ONE	
Type (exposed, torque tube)			EXPOSED	
Outer diameter x length* x wall thickness	Conventional trans.		2.00 x 26.98 x .083	
	Overdrive trans.		2.00 x 23.92 x .083	
	Automatic trans.		2.00 x 26.98 x .083	
Intermediate bearing	Type (plain, anti-friction)		NONE	
	Lubri. (fitting, prepack)		---	
Universal joints	Make		MECHANICS	
	Number used		TWO	
	Type (ball and trunnion, cross, other)		CROSS SLIP JOINT IN FRONT SPLIT JOINT WITH COMPANION FLANGE REAR	
	Bearing	Type (plain, anti-friction)	NEEDLE ROLLER	
		Lubric. (fitting, prepack)	FITTING	
Drive taken through (torque tube or arms, spring)			REAR SPRINGS	
Torque taken through (torque tube or arms, springs)			REAR SPRINGS	

*Centerline to centerline of joints or centerline of rear attachment point.

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			40A	40B
DRIVE UNITS—REAR AXLE				
Type (semi-floating, other)			SEMI-FLOATING	
Gear type (hypoid, other)			HYPOID	
Gear ratio and No. of teeth	Conventional trans.		3.73	
	Overdrive trans.		3.92	
	Automatic trans.		3.31	
Pinion adjustment (shim, other)			SHIMS	
Pinion bearing adj. (shim, other)			SHIMS	
Lubricant	Capacity (pt.)		3	
	Type recommended		HYPOID OR MULTIPURPOSE EXTREME PRESSURE	
	SAE viscosity number	Summer	SAE 90	
		Winter	SAE 90	
		Extreme cold	SAE 80	
DRIVE UNITS—WHEELS				
Type (disc, other)			DISC	
Rim (size and flange type)			15 x 5 K	
Attachment	Type (bolt or stud)		STUD	
	Circle diameter		4-1/2	
	Number and size			
DRIVE UNITS—TIRES				
Size and ply rating	Standard		6.70 x 15 4 PLY WSW	
	Optional		NONE	
Rev/mile at 30 mph			753 (AVERAGE)	
Inflation press. (cold)	Front		24	
	Rear		24	
BRAKES—SERVICE				
Type			HYDRAULIC, INTERNAL EXPANDING, DUO-SERVO, SINGLE ANCHOR	
Booster type			NONE	
Effective area (sq. in.)			169.66	
Percent brake effectiveness—rear			38%	
Drum	Diameter	Front	11	
		Rear	11	
	Type and material		COMPOSITE: PRESSED STEEL DISC AND CAST IRON DRUM	

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL				40A	40B
BRAKES—SERVICE (cont.)					
Brake lining	Bonded or riveted			RIVETED	
	Primary	Material		MOLDED ASBESTOS	
		Size (length x width x thickness)	Front wheel	10.62 x 1.75 x .187	
			Rear wheel	10.62 x 1.75 x .187	
		Segments per shoe		ONE	
	Secondary	Material		MOLDED ASBESTOS	
		Size (length width x thickness)	Front wheel	11.93 x 2.25 x .187	
			Rear wheel	11.93 x 1.75 x .187	
		Segments per shoe		ONE	
Wheel cylinder bore	Front			1.125	
	Rear			0.875	
Master cylinder bore				1.00	
Available pedal travel				6.5	
Line pressure at 100 lb. pedal load				APPROXIMATELY 700	
Shoe clearance adjustment				.010	
BRAKES—PARKING					
Type of control				T-HANDLE PULL TWIST RELEASE	
Location of control				UNDER INSTRUMENT PANEL-LEFT SIDE	
Operates on				REAR BRAKES	
If separate from service brakes	Type (internal or external)			----	
	Drum diameter			----	
	Lining size (length x width x thickness)			----	
FRAME					
Type and description				X MEMBER, BOX SECTION SIDE RAILS AND 4 CROSS MEMBERS	
FRONT SUSPENSION					
Type and description				INDEPENDENT BALL JOINT COILSPRING SYSTEM INCORPORATING TWO UNEQUAL LENGTH TRANSVERSE CONTROL ARMS	

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			40A	40B

FRONT SUSPENSION (cont.)

	Type		COIL
	Material		SAE 9260 OR 5160
Spring	Size (length x width x No. leaves or coil I.D.)		14.99 x 4.03
	Spring rate (lb. per in.)		290 ± 10
	Rate at wheel (lb. per in.)		
	Normal load (lb. @ rated length)		1540 ± 30
Shock absorbers	Manufacturer		GABRIEL
	Type (direct or lever)		DIRECT
	Piston diameter		1.00
Stabilizer	Type (link, linkless, frameless)		LINK FRAME MOUNTED
	Material		1065 OR 1090

STEERING

Type used (Standard or optional)		Mechanical		STANDARD
		Power		OPTIONAL
Wheel diameter				17"
Turning diameter	Outside front	Wall to wall (r. & l.)		N.A.
		Curb to curb (r. & l.)		38.50
	Inside rear	Wall to wall (r. & l.)		N.A.
		Curb to curb (r. & l.)		N.A.
Inside wheel angle with outside wheel at 20°				25°
Mechanical	Gear	Type		WORM AND TWO TOOTH ROLLER
		Make		FORD
		Ratios	Gear	20.1 TO 1
			Overall	20.1 TO 1
	No. wheel turns			3.4
Power	Type			LINKAGE BOOSTER
	Make			BENDIX
	Trade name			MASTER GUIDE
	Gear	Type		SAME AS STANDARD
		Ratios	Gear	SAME AS STANDARD
			Overall	SAME AS STANDARD
	Pump driven by			BELT TO CRANKSHAFT PULLEY
	Overall torque ratio			25% STANDARD STEERING EFFORT
	Number wheel turns			4.75
Linkage	Type			PARALLELOGRAM
	Location (front or rear of wheels)			REAR OF WHEELS
	Drag link (trans. or long) Tie rods (one or two)			TRANSVERSE TWO

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL			40A	40B
STEERING (cont.)				
Kingpin	Inclination at camber (deg.)		7° 7' 0" (CURB WEIGHT)	
	Diameter		-	
	Bearings (type)	Upper	BALL JOINT	
		Lower	BALL JOINT	
		Thrust	BALL BEARING IN LOWER BALL JOINT	
Wheel alignment (range and preferred)	Caster (deg.)		0° 30' TO +1° 30' (CURB WEIGHT) CASTER NOT TO VARY MORE THAN 1/2° FROM ONE SIDE TO OTHER	
	Camber (deg.)		0° 8' TO +1° 8' (CURB WEIGHT) CAMBER NOT TO VARY MORE THAN 1/4° FROM ONE SIDE TO OTHER	
	Toe-in (outside tread-inches)		1/16 TO 1/8	
Steering knuckle type			BALL JOINTS	
Wheel spindle	Diameter	Inner bearing	1.2493-1.2498	
		Outer bearing	.7493-.7498	
	Thread size		3/4 - 16	
	Bearing type		TAPERED ROLLER	
REAR SUSPENSION				
Type			LONGITUDINAL LEAF	
Drive and torq. taken through (see page 14)			REAR SPRINGS	
Spring	Type		SEMI-ELLIPTIC	
	Material		SAE 5147 OR 5160	
	Size (length x width x No. leaves or coil I.D.)		55.0 x 2.0 x 4	
	Spring rate (lb. per in.)		(DESIGN LOAD X LB./IN. RATE) 110	
	Rate at wheel (lb. per in.)			
	Normal load (lb. at rated length)		810	
	Mounting insulation type		RUBBER BUSHED SHACKLES AND RUBBER PAD AT AXLE	
	If leaf	No. of leaves	4	
		Covers (yes, no)	NO	
		Lubricated (yes, no)	NO	
		Inserts: Type and size	LEAF TIP INSERTS (ONE PIECE)	
		Inserts: Material	MOLDED IMPREGNATED FABRIC	
		Shackle (comp. or tens.)	TENSION	
Shock absorbers	Manufacturer		GABRIEL	
	Type (direct or lever)		DIRECT	
	Piston diameter		1.0	
Stabilizer	Type (link, linkless, frameless)		NONE	
	Material		---	
Track bar type			NONE	

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

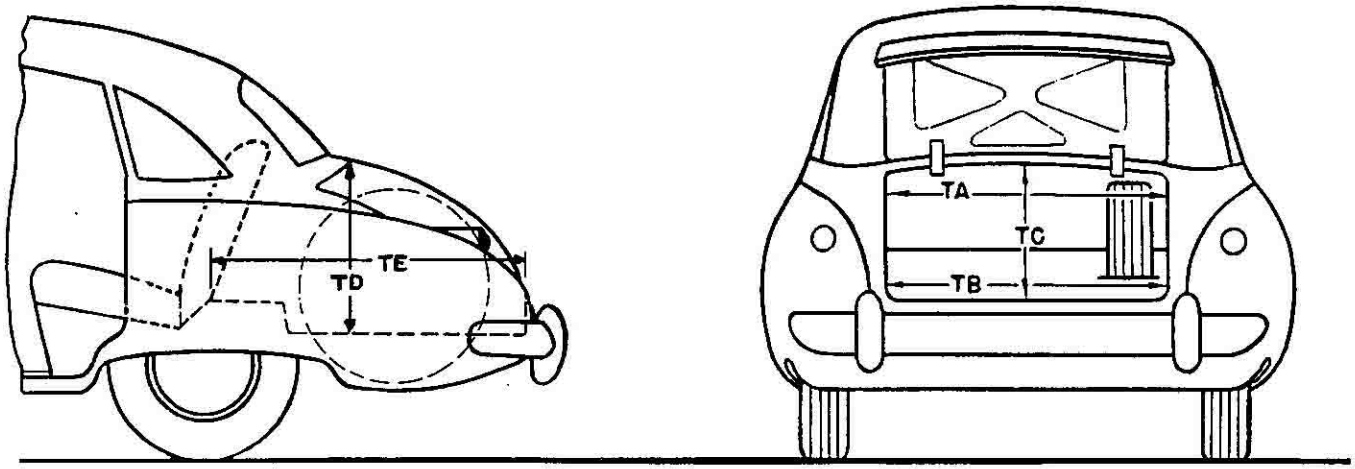
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been proposed for adoption by the SAE. 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. The dimensions are developed from the following basic points:

1. Front and rear seat "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front seat is in the rear position.
3. Loaded position—5 passengers, front 300 lb., rear 450 lb., includes spare wheel, tire and tools, and full complement of gas, oil, water, etc. and tires to recommended pressure, etc.
4. C. L. (centerline).
5. D. L. O. (daylight opening, exposed glass dimension).
6. Ramp breakover angle (page 20-A) is the supplement of the included ramp angle (180° minus the included ramp angle) over which a car can pass without hanging up.

MODEL THUNDERBIRD	40A	40B

BODY—TRUNK OPENING DIMENSIONS



TA—Width across the top	46.3
TB—Width across the bottom	43.3
TC—Diagonal dimension at CL from top of opening to bottom	27.9
TD—Vertical height of opening (floor to top, inside edge of opening)	16.1
TE-Max. horizontal depth (forward from vertical projection of inside edge of opening)	53.5
Position of spare tire stowage	OUTSIDE LUGGAGE COMPARTMENT AT REAR
Method of holding lid open	SPRING CENTER BALANCE

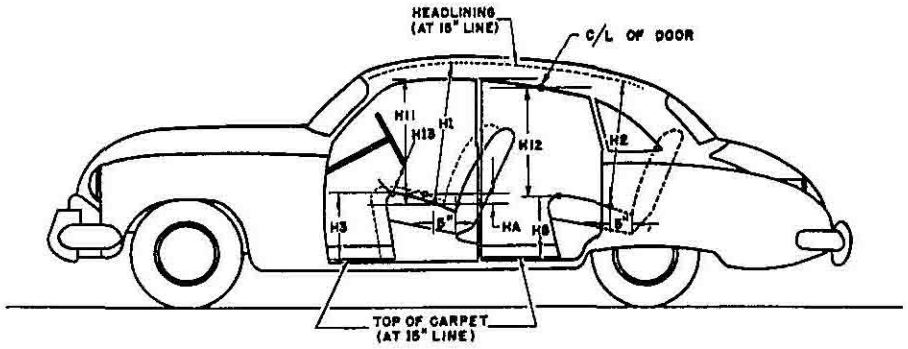
AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL THUNDERBIRD	40A	40B

BODY—HEIGHT DIMENSIONS—INTERIOR



H1. Front headroom—from "A" pt. to headlining at 8° back of vertical on 15″ line. (For "A" pt. see note 1, page 19)	33.6	33.1
H2. Rear headroom—from "A" pt. to headlining at 8° back of vertical on 15″ line.	NONE	
H3. Front seat height to floor carpet on 15″ line (front edge of cushion).	7.10	
H8. Rear seat height to floor carpet on 15″ line (front edge of cushion).	NONE	
H11. Entrance—front—cushion "A" point to bottom windcord vertical.	27.4	
H12. Entrance—rear—top of cushion to bottom windcord vertical at C/L of rear door.	NONE	
H13. Steering wheel clearance to seat cushion taken on arc.	5.7 WITH WHEEL IN NEUTRAL POSITION	
HA. Front seat vertical rise at "A" pt. (inches.)	1.8	

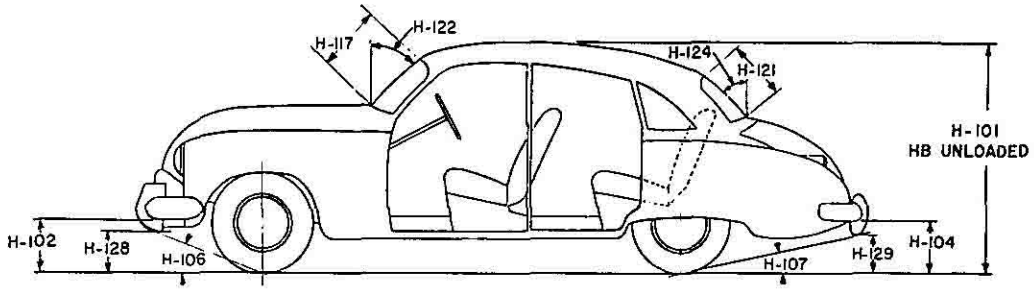
AMA Consolidated Specification Questionnaire

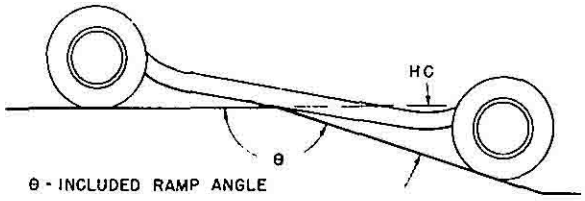
OCTOBER 28, 19

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL THUNDERBIRD	40A	40B

BODY—HEIGHT DIMENSIONS—EXTERIOR





θ - INCLUDED RAMP ANGLE
HC - RAMP BREAKOVER ANGLE
(SUPPLEMENT OF INCLUDED RAMP ANGLE)

H101. Overall height. Loaded-Top Up	52.4		52.2
HB. Overall height—~~unloaded~~ Loaded-Top Down		50.2	
H102. Front bumper bottom to ground at normal section.		11.9	
H104. Rear bumper bottom to ground at normal section.		12.8	
H106. Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.		23° 18'	
H107. Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard.		11° 50'	
HC. Ramp breakover angle.*		10° 57' 35"	
H117. Windshield DLO-slant height.		17.1	
H121. Backlight DLO*—Max., slant height.	13.0		12.4
H122. Windshield slope angle to vertical line on car axis.		49°	
H124. Backlight slope angle to vertical line on car axis.		42°	
H128. Ground to bottom of front bumper guard.		11.9	
H129. Ground to bottom of rear bumper guard.		NONE	
HD. Min. road clearance (location and dimension).		5.9	
HE. Min. road clearance at rear axle.		7.9	

*See Notes, page 19.

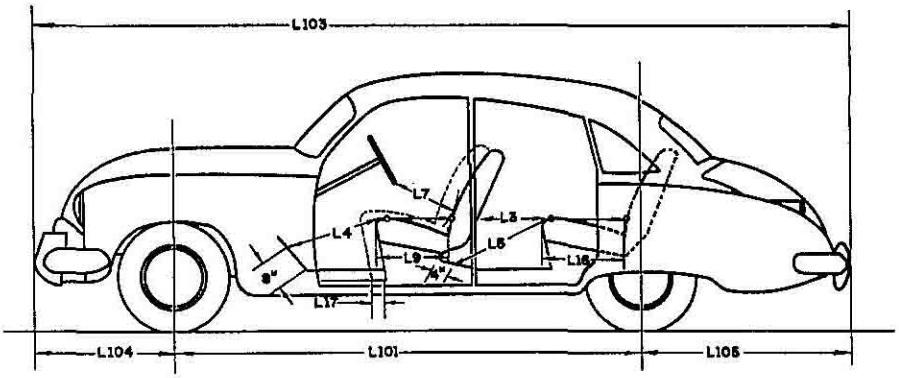
AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL THUNDERBIRD	40A	40B

BODY—LENGTH DIMENSIONS



Interior	**L3.** Rear compartment back of front seat back to rear seat back.	NONE
	L4. Leg room—front—diagonal—ball of foot to top of seat to front seat back—15" line.	45.10 8" TO HEEL POINT
	L5. Leg room—rear—diagonal—from ball of foot to top of rear seat cushion and to seat back.	NONE
	L7. Steering wheel clearance to seat back taken on arc.	14.60 WITH WHEEL IN NEUTRAL POSITION
	L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	18.10
	L16. Depth of rear seat (front edge to seat back).	NONE
	L17. Total adjustment of front seat at floor.	4.0
Exterior	**L101.** Wheel base.	102.0
	L103. Overall length (bumper to bumper inc. guards).	185.1
	L104. Overhang—front including bumper guards.	27.6
	L105. Overhang—rear including bumper guards.	55.6

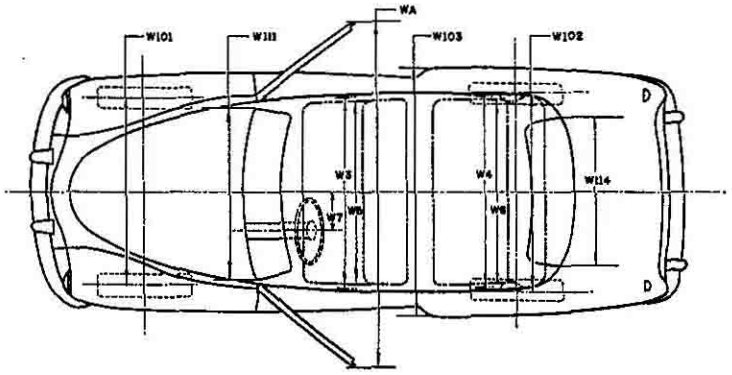
AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL THUNDERBIRD	40A	40B

BODY—WIDTH DIMENSIONS



Interior	**W3.** Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	53.3	
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	NONE	
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	58.8	
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	NONE	
	W7. Steering wheel center to center of body.	14.5	
Exterior	**W101.** Front tread at ground.	56.0	
	W102. Rear tread at ground.	56.0	
	W103. Max. overall width of car including bumpers or mouldings.	71.3	
	WA. Max. overall width of car with doors open.	148.9	
	W111. Windshield DLO, max. width.	56.6	
	W114. Back window DLO, max. width.	47.0	44.6

AMA Consolidated Specification Questionnaire

OCTOBER 28, 1955

MAKE OF CAR FORD THUNDERBIRD **MODEL YEAR** 1956

MODEL THUNDERBIRD	40A	40B

BODY—MISCELLANEOUS INFORMATION

Doors hinged (front, rear)	Front	FRONT	
	Rear	NONE	
Type of finish (lacquer, enamel)		ENAMEL	
Hood opening (front, side; semi-full, full, half)		REAR - FULL	
Hood counterbalanced (yes, no)		NO	
Hood release control (internal, external)		INTERNAL	
Vent window control method (crank, friction, pivot).		N.A.	
Windshield (one piece, two piece; curved, flat)		ONE PIECE CURVED	
Rear window type (one piece, two piece, three piece; curved, flat)		ONE PIECE CURVED	
Windshield glass area		1027.20	
Backlight glass area		574.74	533.6
Total glass area		2064.38	2023.25

BODY—TYPES AND STYLE NAMES

Body type, number of passengers, and style names (use letter code shown below followed by passenger capacity and style name e.g., N-6 Ranchwagon)	L-2	L-2

Body type code

A—Coupe—2 door flatback
B—Coupe—2 door notchback
C—Sedan—2 door flatback
D—Sedan—2 door notchback
E—Sedan—4 door flatback (4 windows)
F—Sedan—4 door flatback (6 windows)
G—Sedan—4 door notchback (4 windows)
H—Sedan—4 door notchback (6 windows)
J—Hardtop—2 door
K—Hardtop—4 door
L—Convertible—2 door
M—Convertible—4 door
N—Station wagon—2 door
P—Station wagon—4 door
Q—Combined passenger and utility—2 door
R—Combined passenger and utility—4 door
S—Sedan delivery
T—Limousine

OCTOBER 28, 1955

INDEX