AUTOMOBILE MANUFACTURERS ASSOCIATION
CONSOLIDATED SPECIFICATION QUESTIONNAIRE

NAME OF CAR:	FORD	**MODEL NAME**	**SYMBOL**
COMPANY:	FORD DIVISION FORD MOTOR COMPANY	THUNDERBIRD-SOFT TOP THUNDERBIRD-HARD TOP	40A 40B
MODEL YEAR:	1955	**DATE** OCTOBER 19, 1954	

REVISED NOVEMBER 30, 1954

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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 2 passenger, CONVERTIBLE

GENERAL SPECIFICATIONS

Model		THUNDERBIRD	40A	40B
Wheelbase			102"	
Tread	Front		56"	
	Rear		56"	
Maximum Overall Dimensions	Length (L-103)		175.3"	
	Width (W-103)		70.3"	
	Height (H-101) (TOP-UP)		52.4	52.2
Steering ratio—overall			20.1 TO 1	
Turning diameter (curb to curb)			36.0	
Shipping weight*			2985	
Transmission—(Specify standard, optional, not avail.)	Conventional		STANDARD	
	Overdrive		OPTIONAL	
	Automatic		OPTIONAL	
Axle ratio	Conventional		3.73	
	Overdrive		3.92 STANDARD	
	Automatic		3.31 STANDARD	
Tire size			6.70 X 15 4 PLY WSW TUBELESS	
Engine	Type		V	
	No. of cylinders		8	
	Valve arrangement		OVERHEAD	
	Bore and stroke		3.75 X 3.30	
	Piston displacement, cu. in.		292	
	Standard compression ratio		8.1 TO 1	
	Maximum bhp at engine rpm		193 @ 4400	
	Maximum torque at rpm		280 @ 2600	

*Standard car weight, not including gas and water.

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MODEL THUNDERBIRD			40A	40B
ENGINE—GENERAL				
Type	V, In-line, other		V	
	Angle of V		90°	
No. of cylinders			8	
Valve arrangement			OVERHEAD	
Bore and stroke			3.7500-3.7524 X 3.30	
Piston displacement, cu. in.			292	
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		8.1 TO 1	
	Optional Head		8.5 TO 1	
Cylinders	Head Material	Standard	CAST IRON	
		Optional	CAST IRON	
	Sleeve—Wet, dry, other, none		NONE	
Number of mounting points		Front	2	
		Rear	1	
Taxable horsepower	(Dia.² x No. Cyl.) / 2.5		45.0	
Advertised max. brake horsepower at engine RPM*	Standard head		193@4400	
	Optional head		198@4400	
	With fuel (Octane and method)	Standard Head	REGULAR	
		Optional Head	PREMIUM	
Max. torque (lb. ft. @ RPM)	Standard head		280@2600	
	Optional head **		286@2500	
Recommended idle speed (neutral)			475 - 500 RPM - ALL TRANSMISSIONS	
ENGINE—PISTONS				
Material			ALUMINUM ALLOY	
Description and finish			AUTOTHERMIC, CLOSED TYPE, CAM GROUND, FLATHEAD, TIN PLATED	
Weight (piston only) oz.			8 GRADES 19.36-19.48	
Clearance	Top land		.0023 - .0028	
	Skirt	Top	.0010 - .0024	
		Bottom	.0006 - .0012	
Ring groove depth	No. 1 ring		.2085 - .2135	
	No. 2 ring		.2085 - .2135	
	No. 3 ring		.2055 - .2105	
	No. 4 ring		NONE	

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

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MODEL	THUNDERBIRD		40A	40B
ENGINE—RINGS				
Type (top to bottom)	No. 1 oil or comp.		TAPER FACE	
	No. 2 oil or comp.		TAPER FACE	
	No. 3 oil or comp.		THREE PIECE-SEGMENTED EXPANDER	
	No. 4 oil or comp.		NONE	
No. rings above piston pin			3	
Compression	Material		CAST IRON	
	Coating		UPPER - CHROME PLATE LOWER - PHOSATE-COATED	
	Width		.0775 - .0780	
	Gap		.010 - .020	
	Maximum wall thickness		.187	
Oil	Material		STEEL	
	Coating		CHROME-PLATED	
	Width		.1860 - .1865	
	Gap		.015 - .053	
	Maximum wall thickness		.171	
Location of expanders			NONE	
ENGINE—PISTON PINS				
aterial			ALLOY STEEL, HEAT TREATED	
ength			3.016 - 3.030	
Diameter			.9120 - .9123	
ype	Locked in rod, in piston, floating, etc.		FULL FLOATING	
	Bushing	In rod or piston	IN ROD	
		Material	BRONZE	
learance	In piston		SELECTED FOR .0001 - .0003	
	In rod		SELECTED FOR .0001 - .0003	
irection offset in piston			RIGHT	
ENGINE—CONNECTING RODS				
aterial			FORGED STEEL	
eight (oz.)			24.06 (LESS BRG.)	
ngth (center to center)			6.320 - 6.324	
aring	Material		COPPER LEAD - STEEL-BACKED	
	Type (cast-in or removable)		REPLACEABLE INSERTS	
	Effective length		.711	
	Clearance		SELECTED FOR .0005 - .0021	
	End play		.006 - .016 (TWO RODS)	
ENGINE—CRANKSHAFT				
aterial			ALLOY IRON	
eight (lb.)			50.59	

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ENGINE—CRANKSHAFT (cont.)

Vibration damper type			RUBBER-FLOATED	
End thrust taken by bearing (No.)			3	
Crankshaft end play			.002 - .006	
Main bearing	Material		COPPER LEAD, STEEL BACKED	
	Type (cast-in or removable)		REPLACEABLE INSERTS	
	Clearance		SELECTED FOR .0005 - .0021	
	Journal dia. and bearing effective length	No. 1	2.4984 - 2.4988 X .728	
		No. 2	2.4984 - 2.4988 X .728	
		No. 3	2.4984 - 2.4988 X .662	
		No. 4	2.4984 - 2.4988 X .728	
		No. 5	2.4984 - 2.4988 X .728	
		No. 6	---	
		No. 7	---	
	Direction offset from cyl. bore		---	
Connecting rod crankpin journal diameter			2.1880 - 2.1888	

ENGINE—CAMSHAFT

Material			CAST ALLOY IRON	
Bearings	Material		STEEL-BACKED BABBITT	
	Number		5	
Type of drive	Gear or chain		CHAIN	
	Crankshaft gear or sprocket material		STEEL, HEAT-TREATED	
	Camshaft gear or sprocket material		CAST IRON	
	Timing chain	Make	---	
		No. of links	56	
		Width	1.00 (NOMINAL)	
		Pitch	.375	

ENGINE—VALVE SYSTEM

Hydraulic lifters (yes, no)		NO	
Special provision for valve rotation (intake, exhaust)		YES - INTAKE AND EXHAUST	
Rocker ratio		1.43 TO 1	
Operating tappet clearance (indicate hot or cold)	Intake	.018 HOT	
	Exhaust	.018 HOT	
Tappet clearance timing	Intake	SEE PAGE 5	
	Exhaust	SEE PAGE 5	
Timing marks on flywheel, damper, other		VIBRATION DAMPER PULLEY	

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ENGINE—VALVE SYSTEM (cont.)				
Timing	Intake	Opens (°BTC)	12° @ .016 CAM LIFT	
		Closes (°ABC)	54° @ .019 CAM LIFT	
	Exhaust	Opens (°BBC)	58° @ .015 CAM LIFT	
		Closes (°ATC)	8° @ .018 CAM LIFT	
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		SELECTED FOR .001 - .002	
	Lift		.360	
	Outer spring press. and length	Valve closed (lb. @ in.)	54 - 62# @ 1.82	
		Valve open (lb. @ in.)	124 - 140# @ 1.50	
	Inner spring press. and length	Valve closed (lb. @ in.)	NONE	
		Valve open (lb. @ in.)	NONE	
Exhaust	Material		CAST 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		SELECTED FOR .002 - .003	
	Lift		.360	
	Outer spring press. and length	Valve closed (lb. @ in.)	54 - 62# @ 1.82	
		Valve open (lb. @ in.)	124 - 140# @ 1.50	
	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 FROM DRAINBACK
	Timing gear or chain	DIRECT DRAINBACK
	Cylinder walls	PRESSURE STREAM

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NGINE—LUBRICATION SYSTEM (cont.)		
ype		GEAR
pressure (lb. @ rpm) (HOT)		45 - 50 @ 2000
e gage type mechanical)		ELECTRIC
ake (floating,		STATIONARY
pe (full flow,)		FULL FLOW (REPLACEABLE CARTRIDGE)
f crankcase, less (qt.)		5
ecommended (SAE viscosity ature range)		/32°F AND ABOVE - SAE 20 OR 20W /32°F TO -10°F - SAE 10 OR 10W BELOW - 10°F - SAE 5W
ommended		A.P.I. TYPE ML FOR AVERAGE DRIVING A.P.I. TYPE MS FOR SEVERE DRIVING
GINE—FUEL SYSTEM		
d Standard head		REGULAR
Optional head		PREMIUM
Capacity (gals.)		17.5
Filler Location		CENTER DECKLID
Type		LAMINATED PAPER
Location		BETWEEN FUEL PUMP AND CARBURETOR
Type (elec. or mech.)		MECHANICAL
Location		LOWER LEFT FRONT OF ENGINE
Pressure range		4 - 5 PSI @ 900 RPM
Vacuum booster (std., optl., none)		OPTIONAL
Make		---
Model number		---
Number used		ONE
Type — Downdraft, side inlet, other		DOWNDRAFT, TO INLET, CONCENTRIC BOWL, AIR CLEANER FORMS AIR HORN
Type — 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
Air cleaner type — Optional		---
GINE—EXHAUST SYSTEM		
ingle with cross-over, dual, other)		DUAL
ey., flow, str. thru, sep.resonator)		REVERSE
lia. — Branch		---
lia. — Main		2"
eter		1.75"

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ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)			PRESSURE VENTED
Radiator cap relief valve press.			13 PSI VENTED
Circulation thermostat	Type (choke, bypass)		CHOKE - PELLET-OPERATED
	Starts to open at		157-162°F STD. (177 - 182°F OPT.)
Water pump	Type (centrifugal, other)		CENTRIFUGAL
	Number of pumps		ONE
	Drive (V-belt, other)		SINGLE V-BELT
	Bearing type		DOUBLE ROW, SEALED BALL, PRE-LUBRICATED
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
	Without heater (qt.)		20
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 MOULDED
	Lower — Inside diameter and length		2.00 X 13.3 (DEVELOPED)
	Upper — Number and type (molded, straight)		ONE MOULDED
	Upper — Inside diameter and length		1.75 X 19.8 (DEVELOPED)
	By-pass — Number and type (molded, straight)		ONE RUBBER HOSE
	By-pass — Inside diameter and length		.578 - .640 X 4.25
Drive belts	Fan — Number used		ONE
	Fan — Angle of V		38°
	Fan — Outside length		44.66
	Fan — Width		.50"
	Generator — Angle of V		SAME AS FAN
	Generator — Outside length		---
	Generator — Width		---
Fan	Number of blades and spacing		3 UNEQUAL SPACING
	Diameter		18.0
	Ratio—fan to crankshaft revolutions		.9 TO 1
	Bearing type		SEE WATER PUMP BEARING

POWER STEERING (OPT.) HYDRAULIC PUMP DRIVE BELT
ANGLE OF V 38°
OUTSIDE LENGTH 38.50
WIDTH .50

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ELECTRICAL—SUPPLY SYSTEM					
Battery	Make and Model				FDA-10655-A
	Voltage Rtg. & Plates/cell/ total				6-51-3
	SAE Designation & Amp Hr. Rtg				90
	Location				REAR LEFT UNDER HOOD
	Terminal grounded				POSITIVE
Generator	Make				FORD
	Model				FBA-10000-C
	Type				SHUNT
	Ratio—Gen. to Cr/s rev.				2 TO 1
Regulator	Make				FORD
	Model				FAD-10505-A & C
	Type				VOLTAGE & CURRENT CONTROL
	Cutout relay	Closing voltage @ generator rpm			6.0 - 6.6 VOLTS @ 80°F
		Reverse current to open			4.0 - 8.0 AMPS
	Regulated	Voltage			7.4 - 7.8 VOLTS @ 80°F
		Current			38 - 42 AMPS
	Min. Gen. rpm required				1900
	Voltage test conditions	Temperature			75°F - 85°F
		Load			10A
		Other			3000 GEN RPM
ELECTRICAL—STARTING SYSTEM					
Starting motor	Make				FORD
	Model				FAC-11001-H
	Rotation (drive end view)				CLOCKWISE
	Engine cranking speed				110 TO 130 RPM @ 70°F WITH SAE 30
	Test conditions				70°F AMBIENT SAE #30 OIL
	Lock test	Amps			700 MAXIMUM
		Volts			3.5
		Torque (lb. ft.)			14.25 MINIMUM
	No load test	Amps			70 MAXIMUM
		Volts			6
		RPM (min.)			4000 - 6000
Motor control	Switch (solenoid, manual)				SOLENOID
	Starting procedure				TURN IGNITION KEY TO RIGHT BEYOND "ON" POSITION

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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			

ELECTRICAL—IGNITION SYSTEM

Coil	Make		FORD	
	Model		8BA-12029	
	Amps	Engine stopped	5	
		Engine idling	3	
Distributor	Make		HOLLEY	
	Model		FEC-12127-A (STANDARD)	FEA-12127 (R.P.O. TACH. DR.)
	Spark advance data (at distributor shaft)	Centr. advance start (rpm)	NONE	
		Centr. advance max. deg. @ rpm	NONE	
		Vacuum advance start (in. Hg/ H20	.5° @ 300 @ 2.8 IN H_2O	
		Vac. adv. (max. deg. @ in. Hg./H20	16 1/2° @ 1500 @ 32.4 IN H_2O	
	Breaker gap (in.)		.014 - .016	
	Cam angle (deg.)		26° - 28.5°	
	Breaker arm tension (oz.)		17 - 20	
Timing	C/S deg. @ rpm		6° BTDC	
	Mark location		CRANKSHAFT PULLEY	
	Cylinder numbering system (see page 2)		L. BANK 5-6-7-8 R. BANK 1-2-3-4	
	Firing order (see page 2)		15486372	
Spark plug	Make and model		CHAMPION 870	
	Thread (mm)		18 MM	
	Tightening torque (lb. ft.)		20 - 30 LB. FT.	
	Gap		.032" - .036"	
Cable	Conductor type		STRANDED COPPER	
	Insulation type		NEOPRENE SHEATH	
	Spark plug protector		NEOPRENE CAP	

ELECTRICAL—SUPPRESSION

Description	

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	KING SEELEY
	Trip odometer (yes, no)	NO
Charge indicator—type		LAMP
Temperature indicator—type		ELECTRIC
Oil pressure indicator—type		LAMP
Fuel indicator—type		ELECTRIC
Ignition switch	Identify positions in order and circuits controlled	TO LEFT-ACCESSORIES ON CENTER-ACCESSORIES & ENGINE OFF TO RIGHT-1ST POSITION-ACCESSORIES & ENGINE ON 2ND POSITION-STARTER & ENGINE ON
	Provision for illumination	LIGHTED WITH INST. PANEL LIGHTS ON
	Location	IN INST. PANEL-TO LEFT OF STEERING COLUMN
	Theft protection type	NO
Main lighting switch	Identify positions and lights controlled	PUSH PULL SWITCH. PUSH CLEAR IN TO "OFF" FIRST "ON" POSITION OPERATES PARK AND REAR LIGHTS. SECOND "ON" POSITION OPERATES HEAD AND REAR LIGHTS, WHILE IN EITHER "ON" POSITION TURN KNOB TO CONTROL INST. PANEL LIGHTS.
Other light switches	Locations and lamps controlled	MAP LAMP SWITCH INTEGRAL WITH MAP LAMP ON INSTR. 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 INSTR. PANEL CONTROLS ROAD AND REAR LAMPS.
Other switches	Locations and devices controlled	FOUR WAY SEAT REGULATOR SWITCH IN LEFT DOOR TRIM MOULDING. ELECTRIC WINDOW REGULATOR SWITCHES IN BOTH DOOR TRIM PANELS AUTOMATIC TRANSMISSION NEUTRAL SWITCH ON TRANSMISSION SHIFTER TOWER OPENS STARTER CONTROL CIRCUIT. TURN SIGNAL SWITCH IN STEERING COLUMN HUB. HEATER BLOWER SWITCH ON INSTR. PANEL BACK-UP LAMP SWITCH ON TRANSMISSION UNDER FLOOR.
Windshield wiper	Make	TRICO
	Type	VACUUM
	Vacuum booster provision	OPTIONAL VACUUM BOOSTER & FUEL PUMP
	Washer provision	OPTIONAL
Horn	Type	AIR-ELECTRIC
	Number used	MATCHED PAIR
	Amp draw (each)	17.0

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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.

		40A	40B
Headlamp			2-4030
Headlamp beam indicator			1-51
Parking light			2-1154
Tail light			2-1154
Stop light			2-1154
Direction indicator	Front		2-1154
	Rear		2-1154
	Tell-Tale		2-51 (IN INSTRUMENT CLUSTER)
License plate light			2-63
Instrument light		4-55 (2) FOR SPEEDOMETER & (2) FOR OIL & GENERATOR WARNING LTS.	
Ignition lock light			1-55
Map light			1-81
~~Dome light~~			
Clock light			1-55 & TACHOMETER 1-55
Radio dial light			1-44
Glove compartment light			1-55
Courtesy light			1-81
~~Trunk compartment light~~			
Other R.H. AIR LIGHT		OR BLOWER SW. LIGHT AND HEATER CONTROL PANEL 1-55	
EXT. LIGHTING SWITCH LT.			1-55
L.H. AIR-LIGHT			
CIGAR LIGHTER & W/S		WIPER LIGHT	1-55
TRANS. SELECTOR DIAL		ILLUMINATION	1-51

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).

	40A	40B
Headlamp		20 CB (B)
Headlamp beam indicator		20 CB (B)
Parking light		20 CB (A)
Tail light		20 CB (A)
Stop light		20 CB (A)
Direction indicator		SFE 9
License plate light		20 CB (A)
Instrument light		20 CB (A)
Ignition light		20 CB (A)
Map light		SFE 9 (C)
Dome light		
Clock		20 CB (A)
Clock light		20 CB (A)
Radio		1-SFE 14
Glove compartment light		SFE 9 (C)
Courtesy light		SFE 9 (C)
Trunk compartment light		20 CB (A)
Other		
HEATER		SEE 20 AMP
OVERDRIVE		AGC 30

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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		11.06"
	Total eff. area (sq. in.)		113.10"
	Thickness		0.125"
	Number required		TWO
	Engagement cushioning method		TORBEND DISC WITH SPRING VIBRATION DAMPENER
	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

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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		28 MPH
	Gear ratio		0.7
	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 1.47-1.00 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)	65

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DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)

Torque convertor	Number of elements		3
	Max. ratio at stall at engine rpm		2.1 TO 1 @ 1550-1750
	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.)		20.5
	Type recommended		AUTOMATIC TRANSMISSION FLUID
	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 26.98 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 IN 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.

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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 MULTI PURPOSE 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 5K	
Attachment	Type (bolt or stud)		STUD	
	Circle diameter		4½	
	Number and size		5 R.H. STUDS	
DRIVE UNITS—TIRES				
Size and ply rating	Standard		6.70 X 15 4 PLY WSW TUBELESS	
	Optional		NONE	
Lbs./mile at 30 mph			753	
Inflation press. (cold)	Front		24	
	Rear		24	
BRAKES—SERVICE				
Type			HYDRAULIC, INTERNAL EXPANDING, DUO-SERVO, SINGLE ANCHOR	
Booster type			NONE	
Effective area (sq. in.)			175.46	
Percent brake effectiveness—rear			38%	
Drum	Diameter	Front	11	
		Rear	11	
	Type and material		COMPOSITE; PRESSED STEEL DISC AND CAST IRON DRUM	

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BRAKES—SERVICE (cont.)					
Brake lining	Bonded or riveted			RIVETED	
	Primary	Material		MOULDED ASBESTOS	
		Size (length x width x thickness)	Front wheel	10.62 X 1.75 X .187	
			Rear wheel	11.95 X 1.75 X .187	
		Segments per shoe		ONE	
	Secondary	Material		MOULDED ASBESTOS	
		Size (length width x thickness)	Front wheel	11.93 X 2.25 X .232	
			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 COIL SPRING SYSTEM INCORPORATING TWO UNEQUAL LENGTH TRANSVERSE CONTROL ARMS	

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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.)	87
	Normal load (lb. @ rated length)	1540 ± 30
Shock absorbers	Manufacturer	HOUDE
	Type (direct or lever)	DIRECT
	Piston diameter	1.00
Stabilizer	Type (link, linkless, frameless)	LINK-FRAME MOUNTED
	Material	1065

STEERING

Type used (Standard or optional)		Mechanical		STANDARD
		Power		OPTIONAL
Wheel diameter				17"
Turning diameter	Outside front	Wall to wall (r. & l.)		38.4
		Curb to curb (r. & l.)		36.0
	Inside rear	Wall to wall (r. & l.)		N.A.
		Curb to curb (r. & l.)		21.50
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			3.5
Linkage	Type			PARALLELOGRAM
	Location (front or rear of wheels)			REAR OF WHEELS
	Drag link (trans. or long) Tie rods (one or two)			TRANSVERSE TWO

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STEERING (cont.)				
Kingpin	Inclination at camber (deg.)		$7^{\circ}7'$ 0" (CURB WEIGHT)	
	Diameter		NO KINGPIN	
	Bearings (type)	Upper	NO KINGPIN	
		Lower	NO KINGPIN	
		Thrust	BALL BEARING IN LOWER BALL JOINT	
Wheel alignment (range and preferred)	Caster (deg.)		0° 30' TO $+1^{\circ}$ 30' CASTER NOT TO VARY MORE THAN $\frac{1}{2}^{\circ}$ FROM ONE SIDE TO OTHER	
	Camber (deg.)		0° 8' TO $+1^{\circ}$ 8' CAMBER NOT TO VARY MORE THAN $\frac{1}{4}^{\circ}$ 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.)		48.0 X 2.0 X 5	
	Spring rate (lb. per in.)		120	
	Rate at wheel (lb. per in.)		125	
	Normal load (lb. at rated length)		760	
	Mounting insulation type		RUBBER BUSHED SHACKLES AND RUBBER PAD AT AXLE	
	If leaf	No. of leaves	5	
		Covers (yes, no)	NO	
		Lubricated (yes, no)	NO	
		Inserts: Type and size	LEAF TIP INSERTS (ONE PIECE)	
		Inserts: Material	MOLDED INPREGNATED FABRIC	
		Shackle (comp. or tens.)	TENSION	
Shock absorbers	Manufacturer		HOUDE	
	Type (direct or lever)		DIRECT	
	Piston diameter		1.0	
Stabilizer	Type (link, linkless, frameless)		NONE	
	Material		---	
Track bar type			NONE	

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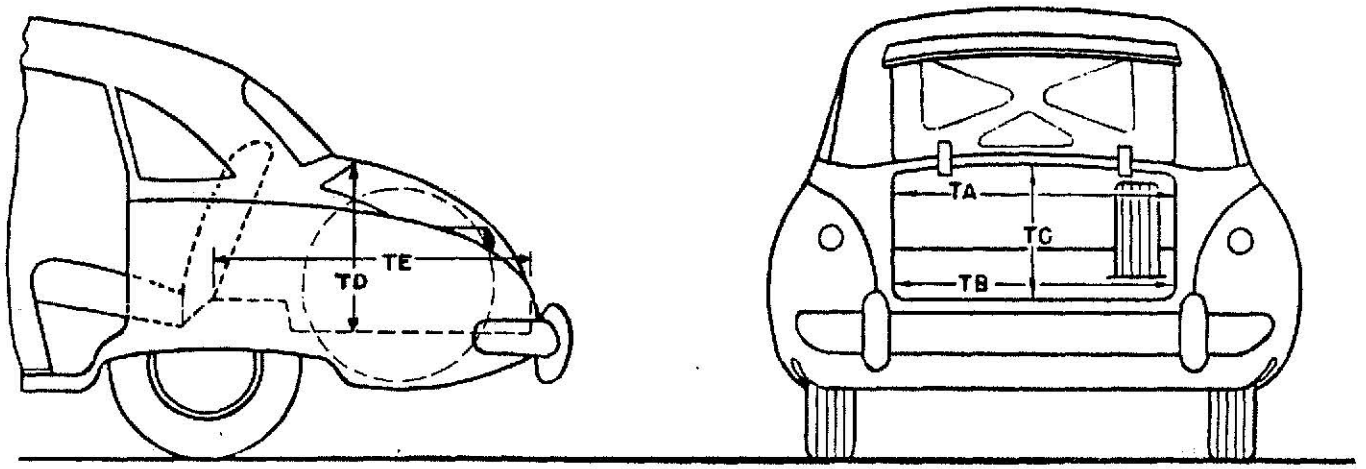
BODY—GENERAL DEFINITIONS

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 1/5/ from center of body.
2. Front seat is in the rear position. 14"
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)	34.8
Position of spare tire stowage	RIGHT HAND SIDE ON ANGLE
Method of holding lid open	SPRING CENTER BALANCE

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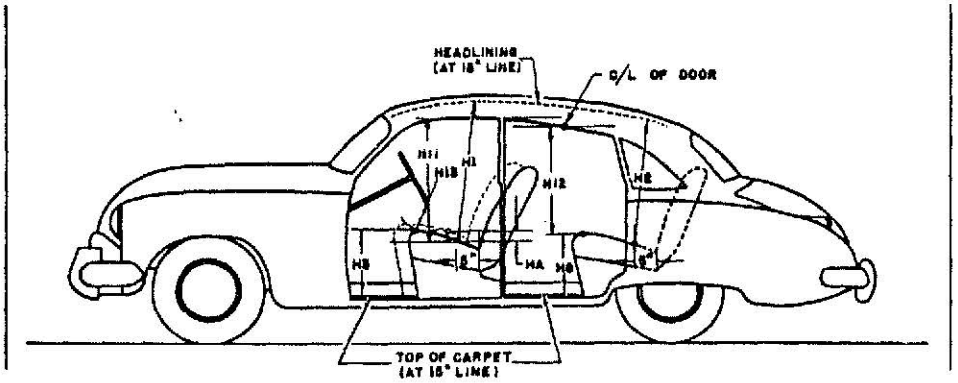
MODEL THUNDERBIRD	40A	40B

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	33.2
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).	7.3	
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.	27.3	
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.	5.6 WHEEL IN NEUTRAL POSITION	
HA. Front seat vertical rise at "A" pt. (inches.)	1.8	

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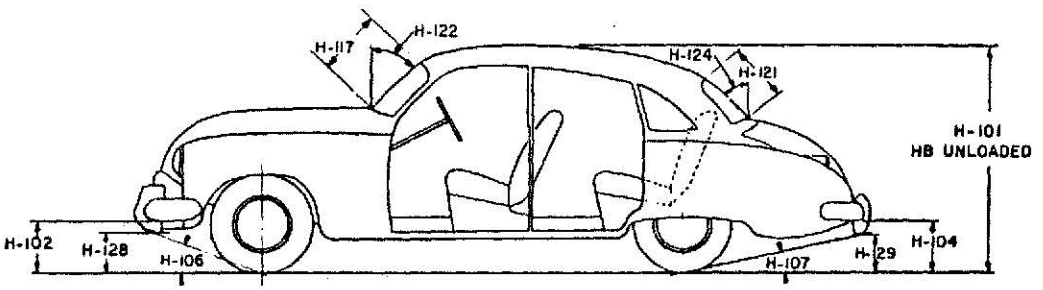
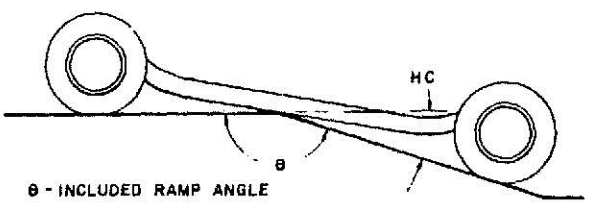
BODY—HEIGHT DIMENSIONS—EXTERIOR





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. TOP DOWN		50.2	
H102. Front bumper bottom to ground at normal section.		11.9	
H104. Rear bumper bottom to ground at normal section.		11.9	
H106. Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.		23°45'	
H107. Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard.		14°21'	
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°		42°
H128. Ground to bottom of front bumper guard.		11.9	
H129. Ground to bottom of rear bumper guard.		11.9	
HD. Min. road clearance [illegible] at frame.		5.9	
HE. Min. road clearance at rear axle housing.		7.3	

*See Notes, page 19.

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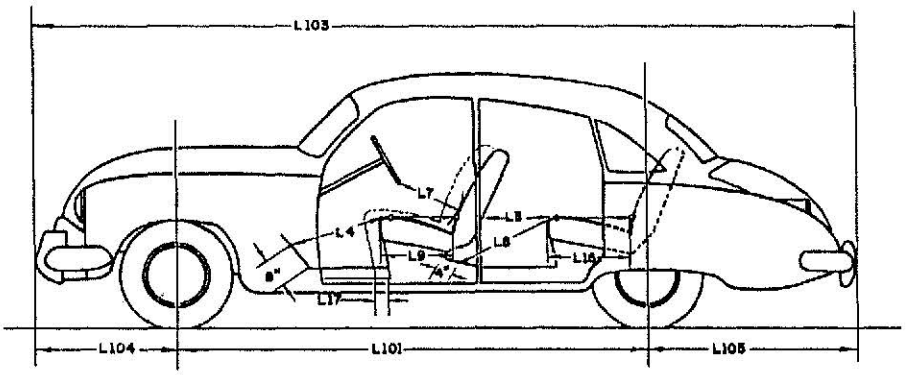
BODY—LENGTH DIMENSIONS



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—15/16" line.	45.4 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.	14.8 WHEEL IN NEUTRAL POSITION
	L9. Front seat depth (front edge to vert. tan. to seat back on 15/16" line).	18.3
	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"
	L103. Overall length (bumper to bumper inc. guards).	175.3
	L104. Overhang—front including bumper guards.	27.6
	L105. Overhang—rear including bumper guards.	45.7

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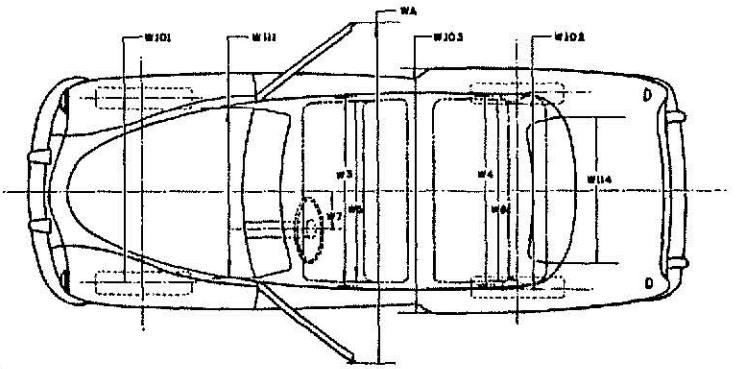
BODY—WIDTH DIMENSIONS



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.	70.3	
	WA. Max. overall width of car with doors open.	148.9	
	W111. Windshield DLO, max. width.	56.6	
	W114. Back window DLO, max. width.	43.0	44.6

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MODEL THUNDERBIRD	40A	40B

BODY—MISCELLANEOUS INFORMATION

Doors hinged (front, rear)	Front	FRONT	
	Rear	---	
Type of finish (lacquer, enamel)		ENAMEL	
Hood opening (front, side; semi-full, full, half)		REAR - REVERSE ALLIGATOR	
Hood counterbalanced (yes, no)		NO	
Hood release control (internal, external)		INTERNAL	
Vent window control method (crank, friction, pivot).			
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 SQ. INCHES	
Backlight glass area		522.74 SQ. INCHES	533.6 SQ. INCHES
Total glass area		2027.06 SQ. INCHES	2037.93 SQ. INCHES

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

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