AUTOMOBILE MANUFACTURERS ASSOCIATION
CONSOLIDATED SPECIFICATION QUESTIONNAIRE

MAKE OF CAR:	LINCOLN	**MODEL NAME**	**SYMBOL**
COMPANY:	LINCOLN-MERCURY DIVISION FORD MOTOR COMPANY	CUSTOM SPECIAL CUSTOM	
MODEL YEAR:	1954 **DATE** December 8, 1953		

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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 5 or 6 passenger, 4-door sedan or equivalent.

GENERAL SPECIFICATIONS

Model			CUSTOM(1) AND SPECIAL CUSTOM(2)
Wheelbase			123"
Tread	Front		58.5
	Rear		58.5
Maximum Overall Dimensions	Length (L-103)		214.8
	Width (W-103)		77.44
	Height (H-101)		62.7 LOADED
Steering ratio—overall			26.1 TO 1
Turning diameter (curb to curb)			45.7
Shipping weight*			N.A.
Transmission— (Specify standard, optional, not avail.)		Conventional	NONE
		Overdrive	NONE
		Automatic	STANDARD
Axle ratio	Conventional		---
	Overdrive		---
	Automatic		3.31 STD.
Tire size			8.00 X 15
Engine	Type		V
	No. of cylinders		8
	Valve arrangement		OVERHEAD
	Bore and stroke		3.80 X 3.50
	Piston displacement, cu. in.		317
	Standard compression ratio		8.0 TO 1
	Maximum bhp at engine rpm		205 @ 4200
	Maximum torque at rpm		305 @ 2300 - 3000

*Standard car weight, not including gas and water.

(1) CUSTOM - COSMOPOLITAN LINE

(2) SPECIAL CUSTOM - CAPRI LINE

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MODEL CUSTOM AND SPECIAL CUSTOM

ENGINE—GENERAL

Type	V, In-line, other		V
	Angle of V		90°
No. of cylinders			8
Valve arrangement			OVERHEAD
Bore and stroke			3.80 X 3.50
Piston displacement, cu. in.			317
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		8.0 TO 1
	Optional Head		NONE
Cylinders	Head Material	Standard	CAST IRON
		Optional	NONE
	Sleeve—Wet, dry, other, none		NONE
Number of mounting points		Front	TWO, AT SIDE
		Rear	ONE, AT TRANSMISSION EXTENSION
Taxable horsepower	$\frac{(\text{Dia.}^2 \times \text{No. Cyl.})}{2.5}$		46.20
Advertised max. brake horsepower at engine RPM*	Standard head		205 @ 4200
	Optional head		NONE
	With fuel (Octane and method)	Standard Head	82 (MOTOR)
		Optional Head	--
Max. torque (lb. ft. @ RPM)	Standard head		305 @ 2300-3000
	Optional head		NONE
Recommended idle speed (neutral)			400-425 IN DRIVE RANGE

ENGINE—PISTONS

Material			ALUMINUM ALLOY
Description and finish			AUTHOTHERMIC, SLIPPER, ELLIPTICAL, FLAT HEAD - TIN PLATED
Weight (piston only) oz.			22.90
Clearance	Top land		.023 - .027
	Skirt	Top/ Bottom/	.0007 - .0013 (1½" ABOVE BOTTOM)
Ring groove depth	No. 1 ring		.2115 - .2165
	No. 2 ring		.2115 - .2165
	No. 3 ring		.2065 - .2115
	No. 4 ring		NONE

*Corrected as defined by SAE Engine Test Code

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ENGINE—RINGS

Type (top to bottom)	No. 1 oil or comp.	TAPER FACE
	No. 2 oil or comp.	COUNTERBORED
	No. 3 oil or comp.	WEDGE CHANNEL
	No. 4 oil or comp.	NONE
No. rings above piston pin		3
Compression	Material	CAST IRON
	Coating	UPPER - CHROME PLATE LOWER - FERROX COAT OR CADMIUM PLATE
	Width	.0775 - .0780
	Gap	.010 - .020
	Maximum wall thickness	.191
Oil	Material	CAST IRON
	Coating	NONE
	Width	.1860 - .1865
	Gap	.010 - .020
	Maximum wall thickness	.150
Location of expanders		UNDER OIL RING

ENGINE—PISTON PINS

Material			ALLOY STEEL, HEAT TREATED
Length			3.173 - 3.176
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		.0001L - .0003L
	In rod		.0002L - .0004L
Direction offset in piston			RIGHT

ENGINE—CONNECTING RODS

Material		FORGED STEEL
Weight (oz.)		28.36 (LESS BEARING)
Length (center to center)		7.064 - 7.066
Bearing	Material	STEEL-BACKED BABBITT
	Type (cast-in or removable)	REPLACEABLE INSERT
	Effective length	.789
	Clearance	.0004 - .0020
	End play	.006 - .014 (TWO RODS)

ENGINE—CRANKSHAFT

Material	PRECISION-MOLDED ALLOY IRON
Weight (lb.)	62

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ENGINE—CRANKSHAFT (cont.)

Vibration damper type			RUBBER-FLOATED
End thrust taken by bearing (No.)			NO. 3 MAIN BEARING
Crankshaft end play			.004 - .008
Main bearing	Material		STEEL-BACKED BABBITT
	Type (cast-in or removable)		REPLACEABLE INSERTS
	Clearance		.0008 - .0026 (SELECTIVE)
	Journal dia. and bearing effective length	No. 1	2.6239 X .92
		No. 2	2.6239 X .92
		No. 3	2.6239 X .84
		No. 4	2.6239 X .92
		No. 5	2.6239 X 1.64
		No. 6	---
		No. 7	---
	Direction offset from cyl. bore		NONE
Connecting rod crankpin journal diameter			2.2486

ENGINE—CAMSHAFT

Material			CAST ALLOY IRON
Bearings	Material		STEEL-BACKED BABBITT, LINE BORED
	Number		5
Type of drive	Gear or chain		CHAIN
	Crankshaft gear or sprocket material		CAST STEEL
	Camshaft gear or sprocket material		CAST IRON
	Timing chain	Make	LINK BELT
		No. of links	50
		Width	1.25
		Pitch	.5

ENGINE—VALVE SYSTEM

Hydraulic lifters (yes, no)		YES
Special provision for valve rotation (intake, exhaust)		YES-BOTH VALVES
Rocker ratio		1.5
Operating tappet clearance (indicate hot or cold)	Intake	ZERO
	Exhaust	ZERO
Tappet clearance for timing	Intake	---
	Exhaust	---
Timing marks on fly-wheel, damper, other		VIBRATION DAMPER

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	18
		Closes (°ABC)	58
	Exhaust	Opens (°BBC)	56
		Closes (°ATC)	20
Intake	Material		#1 SILICHROME
	~~Overall~~ length (GAGE)		5.18
	Actual overall head dia.		2.000 - 2.010
	Angle of seat		45°
	Seat insert material		NONE
	Stem diameter		.3415 - .3425
	Stem to guide clearance		.001 - .002 (SELECTIVE)
	Lift		.354
	~~Outer~~ spring press. and length	Valve closed (lb. @ in.)	64 - 70 @ 1.80
		Valve open (lb. @ in.)	133 - 147 @ 1.47
	Inner spring press. and length	Valve closed (lb. @ in.)	---
		Valve open (lb. @ in.)	---
Exhaust	Material		NICKEL-CHROME ALLOY
	~~Overall~~ length (GAGE)		5.18
	Actual overall head dia.		1.505 - 1.515
	Angle of seat		45°
	Seat insert material		NONE
	Stem diameter		.3405 - .3415
	Stem to guide clearance		.002 - .003 (SELECTIVE)
	Lift		.354
	~~Outer~~ spring press. and length	Valve closed (lb. @ in.)	64 - 70 @ 1.80
		Valve open (lb. @ in.)	133 - 147 @ 1.47
	Inner spring press. and length	Valve closed (lb. @ in.)	---
		Valve open (lb. @ in.)	---

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	PRESSURE
	Connecting rods	PRESSURE
	Piston pins	SPLASH
	Camshaft bearings	PRESSURE
	Tappets	PRESSURE
	Timing gear or chain	DRAIN FED TROUGH
	Cylinder walls	PRESSURE STREAM

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	GEAR
Normal oil pressure (lb. @ rpm)	40 @ 40
Oil pressure gage type (electric or mechanical)	ELECTRIC
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)	+32°F AND ABOVE - SAE 20 or 20 W +32°F TO -10°F - SAE 10 or 10 W BELOW -10°F - SAE 5 W
Oil type recommended	A.P.I. TYPE MM FOR AVERAGE DRIVING A.P.I. TYPE MS FOR SEVERE DRIVING

ENGINE—FUEL SYSTEM

Recommended fuel	Standard head		PREMIUM TYPE
	Optional head		---
Fuel Tank	Capacity (gals.)		20
	Filler Location		BACK PANEL CONCEALED BY LICENSE BRACKET
Fuel Filter	Type		PLASTIC MESH DISC
	Location		IN TANK
Fuel pump	Type (elec. or mech.)		MECHANICAL
	Location		LOWER LEFT FRONT OF ENGINE
	Pressure range PSI		3.5 - 4.5 (16" ABOVE PUMP OUTLET)
	Vacuum booster (std., optl., none)		STD.
Carburetor	Make		HOLLEY
	Model number		2140
	Number used		1
	Type	Downdraft, side inlet, other	QUADRUPLE DOWNDRAFT, CONCENTRIC BOWL - AIR CLEANER FORMS AIR HORN
		Single or dual	4-BARREL
	Intake manifold heat control (manual, auto., none)		AUTOMATIC
	Automatic choke type (integral, other)		HOT FILTERED AIR & VACUUM-MOUNTED ON INTAKE MANIFOLD WITH LINKAGE TO CARB.
	Air cleaner type	Standard	OIL BATH
		Optional	---

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		SINGLE WITH CROSSOVER
Muffler type (rev. flow, str. thru, sep.resonator)		STRAIGHT THRU, PLUS TWO RESONATORS
Exhaust pipe dia.	Branch	
	Main	2.25 INCHES
Tail pipe diameter		2.25 INCHES

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ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)			CONTROLLED PRESSURE SYSTEM
Radiator cap relief valve press.			12 - 15 PSI
Circulation thermostat	Type (choke, bypass)		BYPASS
	Starts to open at		158-163°F
Water pump	Type (centrifugal, other)		CENTRIFUGAL
	Number of pumps		ONE
	Drive (V-belt, other)		ONE 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.)		24.5
	Without heater (qt.)		22.5
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 "L"
		Inside diameter and length	2.0 X 10.69 (DEVELOPED)
	Upper	Number and type (molded, straight)	ONE MOLDED "L"
		Inside diameter and length	1.75 X 8.94 (DEVELOPED)
	By-pass	Number and type (molded, straight)	NONE
		Inside diameter and length	---
Drive belts	Fan	Number used	ONE - SEE NOTE
		Angle of V	36°
		Outside length	45.7
		Width	.38
	Generator	Angle of V	SAME AS FAN
		Outside length	---
		Width	---
Fan	Number of blades and spacing		4-UNEQUALLY SPACED
	Diameter		18.25"
	Ratio—fan to crankshaft revolutions		.90 TO 1
	Bearing type		INTEGRAL WITH WATER PUMP

POWER STEERING (OPT.) HYDRAULIC PUMP DRIVE BELT:
ANGLE OF V - 36°
LENGTH - 37.0
WIDTH - .5

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		AUTO-LITE
	Voltage Rtg. & Plates/cell		6-21
	SAE Designation & Amp Hr. Rtg.		110
	Location		UNDER TOE BOARD, RIGHT HAND SIDE
	Terminal grounded		POSITIVE
Generator	Make		FORD
	Model		FBB-10000-A
	Type		SHUNT
	Ratio—Gen. to Cr/s rev.		2 TO 1
Regulator	Make		FORD
	Model		FAJ-10505-A
	Type		3 COIL
	Cutout relay	Closing voltage @ generator rpm	6.0 - 6.6
		Reverse current to open	0 - 8 AMPS
	Regulated	Voltage	7.4 - 7.8
		Current	48 TO 52 AMPS
	Min. Gen. rpm required (HOT)		1850
	Voltage test conditions	Temperature	70 TO 80°F AMBIENT TEMP.
		Load	10 AMPS.
		Other	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		FORD
	Model		FAC-11001-H
	Rotation (drive end view)		CLOCKWISE
	Engine cranking speed		115-125
	Test conditions		70°F AMBIENT SAE 30 OIL
	Lock test	Amps	700 MAXIMUM
		Volts	3.5
		Torque (lb. ft.)	14.5 MINIMUM
	No load test	Amps	70 MAXIMUM
		Volts	6
		RPM (min.)	4500 - 5000
Motor control	Switch (solenoid, manual)		SOLENOID
	Starting procedure		PLACE TRANSMISSION SELECTOR LEVER IN THE NEUTRAL POSITION, TURN IGNITION KEY TO RIGHT AND PUSH STARTER BUTTON.

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor drive	Engagement type		BENDIX FOLO-THRU TYPE
	Pinion meshes (front, rear)		FROM REAR
	Number of teeth	Pinion	9
		Flywheel	152
	Flywheel tooth face width		3/8"

ELECTRICAL—IGNITION SYSTEM

Coil	Make		FORD
	Model		8BA-12029
	Amps	Engine stopped	5
		Engine idling	3
Distributor	Make		HOLLEY
	Model		FAF-12127-B
	Spark advance data (at distributor shaft)	Centr. advance start (rpm)	NONE
		Centr. advance max. deg. @ rpm	NONE
		Vacuum advance start (in. Hg.)	2.5° @ .19" @ 300 RPM
		Vac. adv. (max. deg. @ in. Hg.)	17° @ 2.8" @ 2000 RPM
	Breaker gap (in.)		.014 - .016
	Cam angle (deg.)		26° - 28.5°
	Breaker arm tension (oz.)		17 - 20
Timing	C/S deg. @ rpm		3° BTDC @ 400
	Mark location		CRANKSHAFT 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 H-10
	Thread (mm)		14
	Tightening torque (lb. ft.)		25 - 30
	Gap		.033 - .037
Cable	Conductor type		STRANDED COPPER
	Insulation type		NEOPRENE
	Spark plug protector		NEOPRENE SHIELD

ELECTRICAL—SUPPRESSION

Description	

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	KING SEELEY
	Trip odometer (yes, no)	YES
Charge indicator—type		AMMETER
Temperature indicator—type		ELECTRIC
Oil pressure indicator—type		ELECTRIC
Fuel indicator—type		ELECTRIC
Ignition switch	Identify positions in order and circuits controlled	TO LEFT - ACCESSORIES ON CENTER - ACCESSORIES AND ENGINE OFF TO RIGHT - ACCESSORIES AND ENGINE ON
	Provision for illumination	LIGHTED WITH INSTR. PANEL LIGHTS ON
	Location	LOWER RIGHT CENTER OF INSTR. 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 INSTR. PANEL LIGHTS ROTATE KNOB TO DIM INSTRUMENT PANEL LIGHTS
Other light switches	Locations and lamps controlled	PK. BRAKE WARNING - ON PK. BRAKE SHAFT TOGGLE UNDER INSTR. PANEL - MAP LAMP FRONT DOOR SWITCHES - FRONT COURTESY LAMPS REAR DOOR SWITCHES AND) DOME LAMP (COSMOPOLITAN) TOGGLE ON LEFT CENTER PILLAR) ROOF RAIL LAMPS (CAPRI) GLOVE BOX DOOR SWITCH - GLOVE BOX LAMP TOE BOARD SWITCH - HEADLIGHT DIMMER
Other switches	Locations and devices controlled	BRAKE MASTER CYLINDER SWITCH - STOPLIGHTS SWITCH UNDER STEERING WHEEL HUB - TURN SIGNAL STARTER BUTTON - L.H. LOWER INSTR. PANEL BACK UP LAMP SW. ON STEERING COL.) COMBINATION AUTO. TRANS. NEUTRAL SW. ON STEERING COL.) WINDOW REG. SWITCHES ON DOOR & QTR. PANELS SEAT REG. SWITCHES ON L.H. SIDE OF FRONT SEAT CONV. TOP CONTROL SWITCH - LOWER L.H. INSTR. PANEL
Windshield wiper	Make	TRICO
	Type	VACUUM
	Vacuum booster provision	ON FUEL PUMP
	Washer provision	OPTIONAL
Horn	Type	AIR ELECTRIC
	Number used	TWO
	Amp draw (each)	14

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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.

Headlamp		2-4030
Headlamp beam indicator		1 - 51
Parking light		2 - 1154
Tail light		2 - 1154
Stop light		SEE TAIL LIGHT
Direction indicator	Front	SEE PARKING LIGHT
	Rear	SEE TAIL LIGHT
	Tell-Tale	2 - 51
License plate light		1 - 63
Instrument light		10 - 55
Ignition lock light & HEATER CONTROL		LIGHTED BY INSTRUMENT LIGHTS
Map light		1 - 63
Dome light OR ROOF RAIL LIGHTS		1 - 209 COSMOPOLITAN OR 2 - 63 CAPRI
Clock light		LIGHTED BY INSTRUMENT LIGHTS
Radio dial light		2 - 51*
Glove compartment light		1 - 55
Courtesy light		2 - 63
Trunk compartment light		1 - 63
Other		
PARKING BRAKE WARNING		1 - 55
BACKUP LTS.		2 - 1129*
ROAD LAMPS		2 - 4015* (CLEAR) OR 2 - 4015-A* (AMBER)
SPOT LAMPS		1 - 4515* OR 1 - 4535*

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	30 C.B. (a)
Headlamp beam indicator	30 C.B. (a)
Parking light	15 C.B. (b)
Tail light	15 C.B. (b)
Stop light	15 C.B. (b)
Direction indicator	SFE-14
License plate light	15 C.B. (b)
Instrument light	15 C.B. (b)
Ignition light	15 C.B. (b)
Map light	SFE-14 (c)
Dome light	SFE-14 (c)
Clock	SFE-2 OR SFE-3
Clock light	15 C.B. (b)
Radio	SFE-14*
Glove compartment light	SFE-14 (c)
Courtesy light	SFE-14 (c)
Trunk compartment light	15 C.B. (b)*
Other HEATER	SFE-20 *
CONV. TOP	40 C.B. *
ELEC. WIND.	30 C.B. (4) 1 FOR EA. WINDOW*
ELEC. SEAT	30 C.B. *
SPOT LIGHT	SFE-14*
CIGAR LIGHTER	THERMO FUSE (SULPHUR DISC.)

*ACC.

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DRIVE UNITS—CLUTCH (PEDAL OPERATED)

Make			NONE
Type (dry or wet plate)			
In combination with fluid coupling (yes, no)			
Semi-centrifugal (yes, no)			
Type pressure plate springs			
Total plate pressure (lb.)			
No. of clutch driven discs			
Clutch facing	Material		
	Inside diameter		
	Outside diameter		
	Total eff. area (sq. in.)		
	Thickness		
	Number required		
	Engagement cushioning method		
	Release bearing	Type	
		Method of lubrication	
	Torsional damping	Method (springs, other)	
		Frict. mat.	

DRIVE UNITS—TRANSMISSIONS

Conventional (std. or opt.)	
Conventional with overdrive (std. or opt.)	
Automatic (std. or opt.)	STANDARD

DRIVE UNITS—CONVENTIONAL TRANSMISSION

Number of forward speeds		NONE
Transmission ratios	In first	
	In second	
	In third	
	In fourth	
	In reverse	
Constant mesh gears in 2nd (yes, no)		
Spur gear used in (indicate speeds)		
Helical gears used in (indicate speeds)		
Synchronous meshing in 2nd and 3rd gears (yes, no)		

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DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

Lubricant	Capacity (pt.)		---
	Type recommended		---
	SAE viscosity number	Summer	---
		Winter	---
		Extreme cold	---

DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

Overdrive	Type (planetary or other)		NONE
	If planetary, No. of pinions		---
	Manual lockout (yes, no)		---
	Downshift accelerator control (yes, no)		---
	Minimum cut-in speed		---
	Gear ratio		---
	Lubricant: Capacity (O.D. only)		---
	Lubricant: Separate filter (yes, no)		---
	Lubricant: Type recommended		---
	Lubricant: SAE viscosity number	Summer	---
		Winter	---
		Ext. cold	---

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		HYDRAMATIC
Type (fluid coupling with gears, torque convertor with gears, other)		FLUID COUPLING WITH PLANETARY GEARS
Manual selector positions, left to right (show symbols and define, e.g., N- Neutral)	DUAL RANGE	N NEUTRAL; DR4 DRIVE 4; DR3 DRIVE 3; LO LOW; R REVERSE
List gear ratios in each drive position (range)	DUAL RANGE	(DRIVE 4 - 3.8195 - 2.6341 - 1.450 - 1.000 (DRIVE 3 - 3.8195 - 2.6341 - 1.450 (LOW - 2.6341 - (3.8195 THRU DETENT BELOW 10 MPH) (REVERSE - 4.3045
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)		60

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DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)

Torque convertor	Number of elements		NONE
	Max. ratio at stall at engine rpm		---
	Mechanical lockup	Provided (yes, no)	---
		Speed range	---
		Releases at (speed range, mph)	---
	Type of cooling (forced air, oil cooler and type, other)		---
	Anti-creep device (yes, no)		---
Lubricant	Capacity—refill (pt.)		22
	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.		NONE
	Overdrive trans.		NONE
	Automatic trans.		2.75 X 53.69 X .065
Intermediate bearing	Type (plain, anti-friction)		NONE
	Lubri. (fitting, prepack)		---
Universal joints	Make		SPICER
	Number used		TWO
	Type (ball and trunnion, cross, other)		CROSS - SLIP JOINT IN FRONT AND FLANGED U-BOLT IN REAR
	Bearing	Type (plain, anti-friction)	NEEDLE ROLLER
		Lubric. (fitting, prepack)	PRESSURE 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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MODEL CUSTOM AND SPECIAL CUSTOM

DRIVE UNITS—REAR AXLE

Type (semi-floating, other)			SEMI-FLOATING
Gear type (hypoid, other)			HYPOID
Gear ratio and No. of teeth	Conventional trans.		NONE
	Overdrive trans.		NONE
	Automatic trans.		3.31 STD.
Pinion adjustment (shim, other)			SHIMS
Pinion bearing adj. (shim, other)			SHIMS
Lubricant	Capacity (pt.)		4
	Type recommended		HYPOID E.P.
	SAE viscosity number	Summer	90
		Winter	90
		Extreme cold	80

DRIVE UNITS—WHEELS

Type (disc, other)		DISC
Rim (size and flange type)		15 X 6L
Attachment	Type (bolt or stud)	STUD
	Circle diameter	5.5
	Number and size	5 R.H. 1/2" - 20 X 1-5/16"

DRIVE UNITS—TIRES*

Size and ply rating	Standard		SQUEAL RESISTANT 8.00 X 15 - 4 PLY
	Optional		SQUEAL RESISTANT 8.00 X 15 - 6 PLY
Rev/mile at 30 mph			712
Inflation press. (cold)	Front	*	26
	Rear	*	22

BRAKES—SERVICE

Type			HYDRAULIC-INTERNAL EXPANDING, DUO-SERVO, SINGLE ANCHOR
Booster type			LOW PEDAL POWER BRAKE OPTIONAL
Effective area (sq. in.)			220.06
Percent brake effectiveness—rear			41
Drum	Diameter	Front	12
		Rear	12
	Type and material		COMPOSITE-PRESSED STEEL DISC & CAST IRON DRUM

*CONV. AND AIR CONDITIONED
EQUIPPED CARS, 8.20X15 TIRES
FRONT PRESSURE 24
REAR PRESSURE 22
WHITE SIDE WALLS OPTIONAL ALL TIRE SIZES

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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			RIVETED
	Primary	Material		MOLDED ASBESTOS
		Size (length x width x thickness)	Front wheel	11.51 X 2.50 X .212
			Rear wheel	11.51 X 2.00 X .212
		Segments per shoe		ONE
	Secondary	Material		MOLDED ASBESTOS
		Size (length width x thickness)	Front wheel	12.94 X 2.50 X .212
			Rear wheel	12.94 X 2.00 X .212
		Segments per shoe		ONE
Wheel cylinder bore	Front			1-1/8
	Rear			15/16
Master cylinder bore				1.00
Available pedal travel				6.50
Line pressure at 100 lb. pedal load				650 PSI
Shoe clearance adjustment				.010

BRAKES—PARKING

Type of control		T-PULL HANDLE - TWIST RELEASE
Location of control		UNDER DASH-L.H. 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 TYPE WITH 5 CROSS MEMBERS

FRONT SUSPENSION

Type and description	INDEPENDENT COIL SPRING SYSTEM INCORPORATING TWO TRANSVERSE CONTROL ARMS WITH RUBBER TYPE INNER BEARINGS AND BALL JOINT OUTER BEARINGS. WHEEL SPINDLE ATTACHES DIRECTLY TO BALL JOINTS.

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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.)	15.62 X 4.25
	Spring rate (lb. per in.)	400
	Rate at wheel (lb. per in.)	119
	Normal load (lb. @ rated length)	2450 @ 9.25
Shock absorbers	Manufacturer	MONROE (A) GABRIEL (B)
	Type (direct or lever)	DIRECT
	Piston diameter	1.375 (A) - 1.625 (B)
Stabilizer	Type (link, linkless, frameless)	LINK
	Material	SAE 1065

STEERING

Type used (Standard or optional)		Mechanical		STD.
		Power		OPTIONAL
Wheel diameter				18"
Turning diameter	Outside front	Wall to wall (r. & l.)		48.36 FEET
		Curb to curb (r. & l.)		45.72 FEET
	Inside rear	Wall to wall (r. & l.)		29.03 FEET
		Curb to curb (r. & l.)		---
Inside wheel angle with outside wheel at 20°				$23^{\circ}33'$
Mechanical	Gear	Type		WORM AND TRIPLE TOOTH ROLLER
		Make		GEMMER
		Ratios	Gear	20.4 TO 1
			Overall	26.1 TO 1
	No. wheel turns			4.25 STOP TO STOP (FRONT WHEELS)
Power	Type			INTEGRAL
	Make			SAGINAW
	Trade name			NONE
	Gear	Type		RECIRCULATING BALL NUT
		Ratios	Gear	19.8
			Overall	21.3
	Pump driven by (1)			BELT FROM CRANKSHAFT
	Overall torque ratio			VARIABLE
	Number wheel turns			3.5 APPROX. STOP TO STOP (FRT. WHEELS)
Linkage	Type			PARALLELOGRAM
	Location (front or rear of wheels)			REAR OF WHEELS
	Drag link (trans. or long)			TRANSVERSE
	Tie rods (one or two)			TWO

(1) SEE PAGE #7

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MODEL CUSTOM AND SPECIAL CUSTOM

STEERING (cont.)

Kingpin	Inclination at camber (deg.)		7°10' @ ∱45'
	Diameter		NO KINGPIN
	Bearings (type)	Upper	UPPER BALL JOINT
		Lower	LOWER BALL JOINT
		Thrust	BALL THRUST BUILT INTO LOWER BALL JOINT
Wheel alignment (range and preferred)	Caster (deg.)		0 TO -1½° NOT TO VARY MORE THAN ½° ONE SIDE TO OTHER
	Camber (deg.)		0 TO ∱3/4° NOT TO VARY MORE THAN ¼° ONE SIDE TO OTHER
	Toe-in (outside tread-inches)		3/32 TO 5/32
Steering knuckle type			BALL-SOCKET JOINTS
Wheel spindle	Diameter	Inner bearing	1.3115 - 1.3120
		Outer bearing	.8115 - .8120
	Thread size		3/4" - 16
	Bearing type		TAPERED ROLLER

REAR SUSPENSION

Type				LONGITUDINAL LEAF
Drive and torq. taken through (see page 14)				SPRINGS
Spring	Type			SEMI-ELLIPTIC LEAF
	Material			SAE 5147 OR 5160
	Size (length x width x No. leaves or coil I.D.)			54.75 X 2 X 8
	Spring rate (lb. per in.)			105
	Rate at wheel (lb. per in.)			110
	Normal load (lb. at rated length)			980
	Mounting insulation type			RUBBER BUSHING
	If leaf	No. of leaves		8
		Covers (yes, no)		NO
		Lubricated (yes, no)		NO
		Inserts	Type and size	FULL LENGTH-BETWEEN 5 TOP LEAVES
			Material	IMPREGNATED PAPER
		Shackle (comp. or tens.)		TENSION
Shock absorbers	Manufacturer			MONROE (A) OR GABRIEL (B)
	Type (direct or lever)			DIRECT
	Piston diameter			1.375 (A) - 1.625 (B)
Stabilizer	Type (link, linkless, frameless)			NONE
	Material			---
Track bar type				NONE

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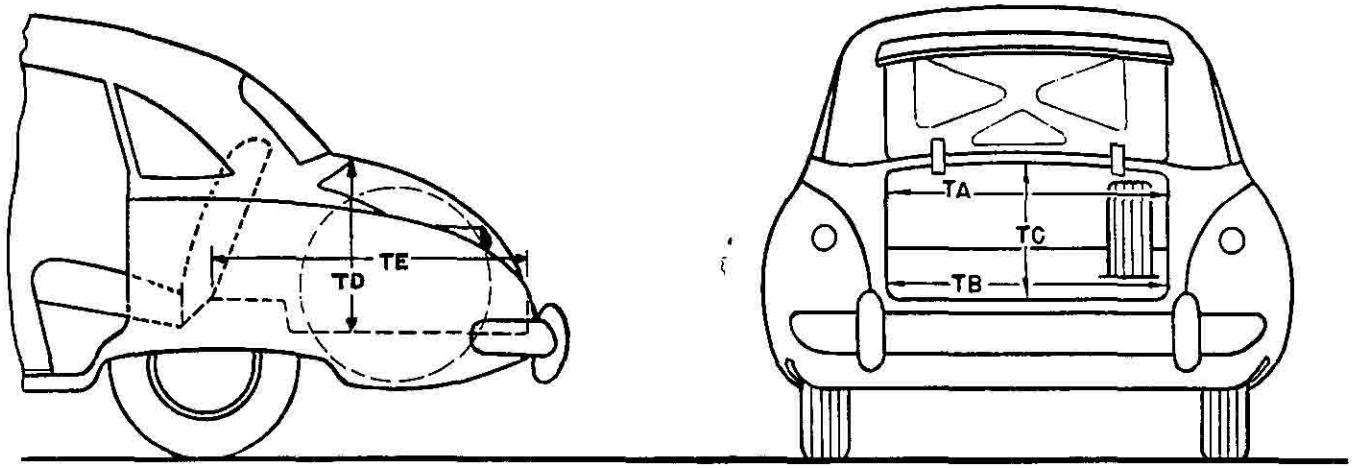
BODY—GENERAL DEFINITIONS

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 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	CUSTOM AND SPECIAL CUSTOM

BODY—TRUNK OPENING DIMENSIONS



TA—Width across the top	50.6
TB—Width across the bottom	46.0
TC—Diagonal dimension at CL from top of opening to bottom	34.2
TD—Vertical height of opening (floor to top, inside edge of opening)	22.3
TE-Max. horizontal depth (forward from vertical projection of inside edge of opening)	53.9
Position of spare tire stowage	RIGHT HAND SIDE ON ANGLE
Method of holding lid open	SPRING COUNTER BALANCE

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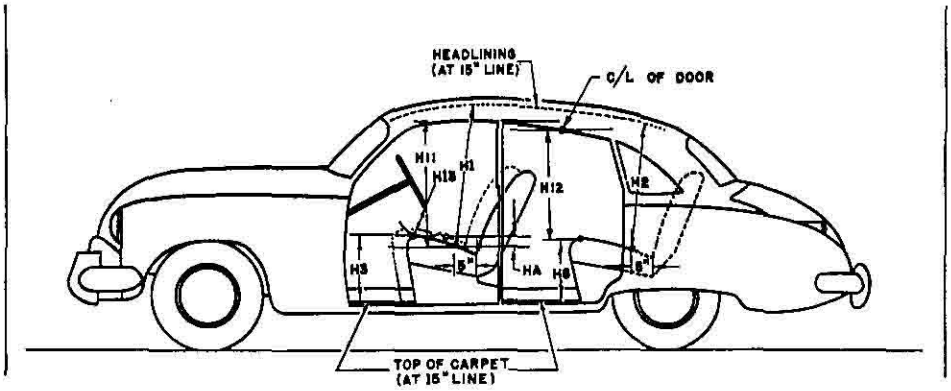
MODEL CUSTOM AND SPECIAL CUSTOM

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)	35.5
H2. Rear headroom—from "A" pt. to headlining at 8° back of vertical on 15" line.	34.7
H3. Front seat height to floor carpet on 15" line (front edge of cushion).	13.5
H8. Rear seat height to floor carpet on 15" line (front edge of cushion).	12.3
H11. Entrance—front—cushion "A" point to bottom windcord vertical.	29.4
H12. Entrance—rear—top of cushion to bottom windcord vertical at C/L of rear door.	28.0
H13. Steering wheel clearance to seat cushion taken on arc.	4.9
HA. Front seat vertical rise at "A" pt. (inches.)	.5

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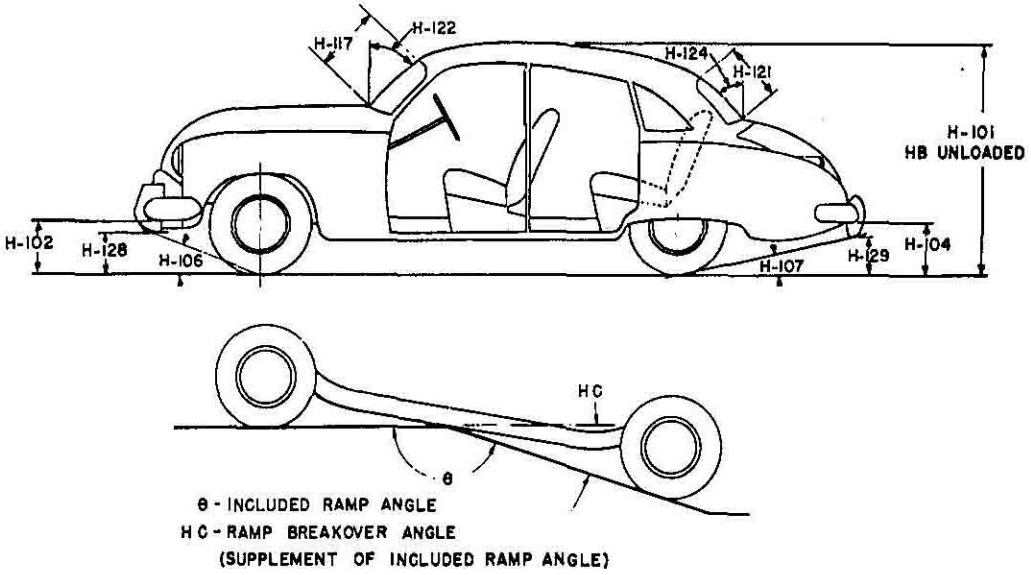
MODEL CUSTOM AND SPECIAL CUSTOM

BODY—HEIGHT DIMENSIONS—EXTERIOR



H101. Overall height.	62.7 - LOADED
HB. Overall height—unloaded.	64.2 - CURB WEIGHT
H102. Front bumper bottom to ground at normal section.	11.8
H104. Rear bumper bottom to ground at normal section.	11.8
H106. Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.	20°
H107. Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard. TAILPIPE	11°40'
HC. Ramp breakover angle.*	13°54'
H117. Windshield DLO-slant height.	16.9
H121. Backlight DLO*—Max., slant height.	14.7
H122. Windshield slope angle to vertical line on car axis.	44°10'
H124. Backlight slope angle to vertical line on car axis.	43°
H128. Ground to bottom of front bumper guard.	11.8
H129. Ground to bottom of rear bumper guard.	11.8
HD. Min. road clearance (location and dimension).	7.4 #2 FRAME CROSS MEMBER
HE. Min. road clearance at rear axle.	8.2

*See Notes, page 19.

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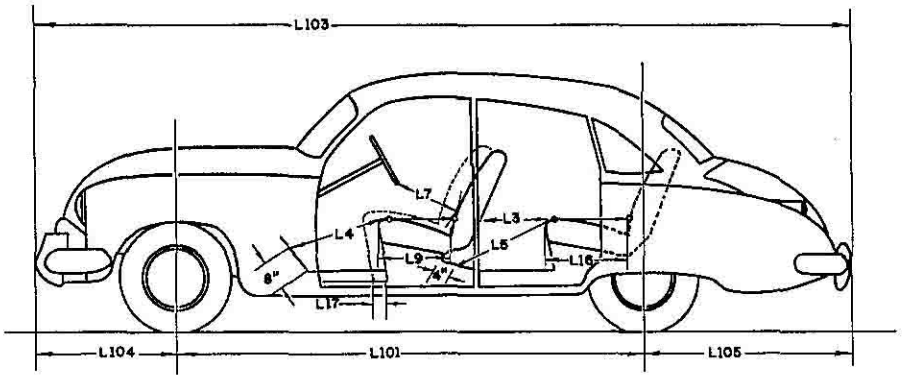
BODY—LENGTH DIMENSIONS



Interior	**L3.** Rear compartment back of front seat back to rear seat back.	32.0
	L4. Leg room—front—diagonal—ball of foot to top of seat to front seat back—15″ line.	44.3
	L5. Leg room—rear—diagonal—from ball of foot to top of rear seat cushion and to seat back.	42.8
	L7. Steering wheel clearance to seat back taken on arc.	14.3
	L9. Front seat depth (front edge to vert. tan. to seat back on 15″ line).	18.5
	L16. Depth of rear seat (front edge to seat back).	18.8
	L17. Total adjustment of front seat at floor.	4.1
Exterior	**L101.** Wheel base.	123.0
	L103. Overall length (bumper to bumper inc. guards).	214.8
	L104. Overhang—front including bumper guards.	37.5
	L105. Overhang—rear including bumper guards.	54.3

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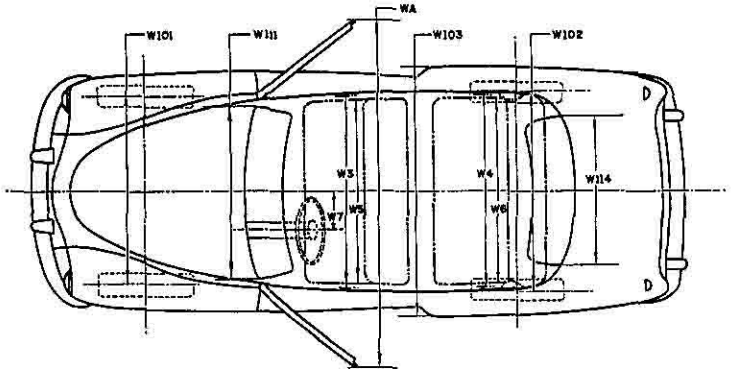
MODEL CUSTOM AND SPECIAL CUSTOM

BODY—WIDTH DIMENSIONS



Interior	**W3.** Front shoulder room, at garnish moulding height or nearest interference 5″ forward of seat back.	57.5
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5″ forward of seat back.	57.2
	W5. Front hip room, at top of seat 5″ forward of vert. tan. to seat back.	62.3
	W6. Rear hip room, at top of seat 5″ forward of vert. tan. to seat back.	62.1
	W7. Steering wheel center to center of body.	15.5
Exterior	**W101.** Front tread at ground.	58.5
	W102. Rear tread at ground.	58.5
	W103. Max. overall width of car including bumpers or mouldings.	77.1
	WA. Max. overall width of car with doors open.	149.0
	W111. Windshield DLO, max. width.	56.0
	W114. Back window DLO, max. width.	58.8

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MODEL CUSTOM AND SPECIAL CUSTOM

BODY—MISCELLANEOUS INFORMATION

Doors hinged (front, rear)	Front	FRONT
	Rear	FRONT
Type of finish (lacquer, enamel)		LACQUER OR ENAMEL
Hood opening (front, side; semi-full, full, half)		FRONT-FULL
Hood counterbalanced (yes, no)		YES
Hood release control (internal, external)		EXTERNAL
Vent window control method (crank, friction, pivot).		CRANK
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		991.2
Backlight glass area		993.4
Total glass area		3306.7

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)	CUSTOM	SPECIAL CUSTOM
	COSMOPOLITAN LINE	CAPRI LINE
	G - 6	G - 6
	J - 6	J - 6
		L - 6

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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