AUTOMOBILE MANUFACTURERS ASSOCIATION
CONSOLIDATED SPECIFICATION QUESTIONNAIRE

MAKE OF CAR:	MERCURY
COMPANY:	MERCURY DIVISION FORD MOTOR COMPANY
MODEL YEAR: 1957	**DATE** 12-26-56

MODEL NAME	SYMBOL
MONTEREY 57A	FOUR-DOOR HARDTOP
MONTCLAIR 57B	FOUR-DOOR HARDTOP
MONTEREY 58A	FOUR-DOOR SEDAN
MONTCLAIR 58B	FOUR-DOOR SEDAN
TURNPIKE 75A	FOUR-DOOR HARDTOP

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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		ENGINE a/ 312 Cu. In.	ENGINE b/ 368 Cu. In.
Wheelbase		122.	
Tread	Front	59.38	
	Rear	59.0	
Maximum Overall Dimensions	Length (L-103)	211.1	
	Width (W-103)	79.1	
	Height (H-101)	56.6	
Steering ratio—overall		27.1 c/ (MANUAL)	
Turning diameter (curb to curb) *		43.78 MANUAL	43.32 POWER
Shipping weight*		3928 (57B)	4222 (75A)
Transmission— (Specify standard, optional, not avail.)	Conventional	STANDARD - MONTEREY	N.A.
	Overdrive	OPTIONAL - MONTEREY	N.A.
	Automatic	STANDARD - MONTCLAIR e/	STANDARD
Axle ratio	Conventional	3.70:1 STD, 3.89:1 OPT.	N.A.
	Overdrive	3.89:1 STD. 3.70:1 OPT.	N.A.
	Automatic *	3.22:1 STD. 2.91:1 OPT.	
Tire size		8.00 x 14 4-PLY d/	
Engine	Type	V	
	No. of cylinders	8	
	Valve arrangement	OVERHEAD	
	Bore and stroke	3.80 x 3.44	4.00 x 3.66
	Piston displacement, cu. in.	312	368
	Standard compression ratio	9.7:1	9.7:1
	Maximum bhp at engine rpm	255 @ 4600	290 @ 4600
	Maximum torque at rpm	340 @ 3000	405 @ 2800

*Standard car weight, not including gas and water.

a/ STANDARD EQUIPMENT MONTEREY AND MONTCLAIR SERIES
b/ STANDARD EQUIPMENT TURNPIKE CRUISER SERIES
c/ 24:1 POWER STEERING
d/ 8.50 x 14 ON A/C CARS
e/ OPTIONAL ON MONTEREY SERIES

* Revised 4-15-57

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MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL			312 CU. IN. ENGINE	368 CU. IN. ENGINE
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 3.44	4.00 X 3.66
Piston displacement, cu. in.			312	368
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		9.7:1	9.7:1
	Optional Head			
Cylinders	Head Material	Standard	CAST IRON	
		Optional		
	Sleeve—Wet, dry, other, none			
Number of mounting points		Front	TWO	
		Rear	ONE	
Taxable horsepower	(Dia.² x No. Cyl.) / 2.5		46.21	51.20
Advertised max. brake horsepower at engine RPM*	Standard head		235 @ 4600	290 @ 4600
	Optional head			
	With fuel (Octane and method)	Standard Head		
		Optional Head		
Max. torque (lb. ft. @ RPM)	Standard head		340 @ 3000	405 @ 2800
	Optional head			
Recommended idle speed (neutral)			475-500 R.P.M.	

ENGINE—PISTONS

Material			ALUMINUM ALLOY	
Description and finish			AUTOTHERMIC, SOLID SKIRT CAM-GROUND, FLAT HEAD TIN-PLATED	AUTOTHERMIC SLIPPER SKIRT FLAT HEAD TIN PLATED
Weight (piston only) oz.			20.39-20.53 (8 GRADES)	23.35 - 23.49 (8 GRADES)
Clearance	Top land		.0230-.0284	.0250 - .0314
	Skirt	Top	.0010-.0024	.0007 - .0016
		Bottom	.0006-.0012	.0007 - .0013
Ring groove depth	No. 1 ring		.1945-.2107	.2040 - .2202
	No. 2 ring		.1945-.2107	.2040 - .2202
	No. 3 ring		.1855-.2017	.2110 - .1995
	No. 4 ring			

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

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ENGINE—RINGS

Type (top to bottom)	No. 1 oil or comp.	COMPRESSION	
	No. 2 oil or comp.	COMPRESSION	
	No. 3 oil or comp.	OIL	
	No. 4 oil or comp.		
No. rings above piston pin		THREE	
Compression	Material	CAST IRON	
	Coating	NO. 1 CHROME PLATED NO. 2 PHOSPHATE COATED	
	Width	(1)-.0775-.0780 (2)-.0930-.0940	(1)-.0775-.0780 (2)-.0925-.0935
	Gap	.012-.022	.013-.023
	Maximum wall thickness	.178	.187
Oil	Material	STEEL	
	Coating	CHROME-PLATED RAILS-BLUED EXPANDER	
	Width	.1879 (Assy. Spring Expanded to Groove Width)	
	Gap		
	Maximum wall thickness	.156 (Rail Only)	.171
Location of expanders		IN RING ASSY.	

ENGINE—PISTON PINS

Material			ALLOY STEEL HEAT TREATED	
Length			3.022-3.028	3.162-3.176
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		.0001-.0003 (S.F.)	.0001-.0003 (S.F.)
	In rod		.0001-.0003 (S.F.)	.0001-.0003 (S.F.)
Direction offset in piston			RIGHT (.062)	

ENGINE—CONNECTING RODS

Material		FORGED STEEL	
Weight (oz.)		22.69-22.96 (8 Grades)	28.22-28.50 (8 Grades)
Length (center to center)		6.250-6.254	7.064-7.066
Bearing	Material	STEEL BACKED COPPER LEAD	
	Type (cast-in or removable)	REPLACEABLE INSERT	
	Effective length	.726	.789
	Clearance	.0007-.0025	.0007-.0025
	End play	.006-.016 (2 Rods)	.006-.014 (2 Rods)

ENGINE—CRANKSHAFT

Material	PRECISION MOLDED ALLOY CAST IRON	
Weight (lb.)	55.6	56.7

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MODEL			312 CU. IN. ENGINE	368 CU. IN. ENGINE
ENGINE—CRANKSHAFT (cont.)				
Vibration damper type			RUBBER-FLOATED	
End thrust taken by bearing (No.)			#3	
Crankshaft end play			.004-.008	
Main bearing	Material		STEEL-BACKED COPPER-LEAD	
	Type (cast-in or removable)		REPLACEABLE INSERT	
	Clearance		.0005-.0029	.0008-.0026
	Journal dia. and bearing effective length	No. 1	2.6235-2.6243x.693	2.6235-2.6243x.693
		No. 2	2.6235-2.6243x.693	2.6235-2.6243x.693
		No. 3	2.6235-2.6243x.665	2.6235-2.6243x.587
		No. 4	2.6235-2.6243x.693	2.6235-2.6243x.693
		No. 5	2.6235-2.6243x.693	2.6235-2.6243x.693
		No. 6		
		No. 7		
	Direction offset from cyl. bore			
Connecting rod crankpin Journal diameter			2.1880-2.1888	2.2482-2.2490
ENGINE—CAMSHAFT				
Material			PRECISION-MOLDED ALLOY CAST IRON	
Bearings	Material		STEEL-BACKED BABBITT	
	Number		FIVE	
Type of drive	Gear or chain		CHAIN	
	Crankshaft gear or sprocket material		STEEL	
	Camshaft gear or sprocket material		CAST IRON	
	Timing chain	Make	N.A.	
		No. of links	56	50
		Width	1.00	1.232
		Pitch	.375	.500
ENGINE—VALVE SYSTEM				
Hydraulic lifters (yes, no)			No	Yes
Special provision for valve rotation (intake, exhaust)			FREE-TURN, INTAKE & EXHAUST	
Rocker ratio			1.54:1	1.60:1
Operating tappet clearance (indicate hot or cold)	Intake		.019 Hot	ZERO
	Exhaust		.019 Hot	ZERO
Tappet clearance for timing	Intake		.019 Hot	N.A.
	Exhaust		.019 Hot	N.A.
Timing marks on fly-wheel, damper, other			DAMPER	

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MODEL			312 CU. IN. ENGINE	368 CU. IN. ENGINE
ENGINE—VALVE SYSTEM (cont.)				
Timing	Intake	Opens (°BTC)	18°	18°
		Closes (°ABC)	58°	72°
	Exhaust	Opens (°BBC)	66°	59°
		Closes (°ATC)	10°	31°
Intake	Material		NO. 1 SILICHROME STEEL	
	Overall length		5.11	5.27
	Actual overall head dia.		1.920-1.930	2.000-2.010
	Angle of seat		45° 30' - 45° 45'	
	Seat insert material			
	Stem diameter		.3416 - .3423	
	Stem to guide clearance		.001 - .002	
	Lift		.400	.417
	Outer spring press. and length	Valve closed (lb. @ in.)	71 - 79 @ 1.78	67 - 74 @ 1.80
		Valve open (lb. @ in.)	161 - 177 @ 1.39	183 - 202 @ 1.38
	Inner spring press. and length	Valve closed (lb. @ in.)		
		Valve open (lb. @ in.)		
Exhaust	Material		AUSTENITIC STEEL	
	Overall length		5.09	5.25
	Actual overall head dia.		1.505-1.515	1.630-1.640
	Angle of seat		45° 30' - 45° 45'	
	Seat insert material			
	Stem diameter		.3403 - .3410	
	Stem to guide clearance		.0023-.0037	.0025-.0035
	Lift		.420	.417
	Outer spring press. and length	Valve closed (lb. @ in.)	71 - 79 @ 1.78	67 - 74 @ 1.80
		Valve open (lb. @ in.)	161 - 177 @ 1.39	183 - 202 @ 1.38
	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	OIL MIST	
	Camshaft bearings	PRESSURE	
	Tappets	GRAVITY	PRESSURE
	Timing gear or chain	GRAVITY	
	Cylinder walls	PRESSURE STREAM	

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MODEL	312 CU. IN. ENGINE	368 CU. IN. ENGINE

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	ROTOR	
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 30F - SAE 20 OR 20W ABOVE -10F - SAE 10 OR 10W BELOW -10F - SAE 5W	
Oil type recommended	HEAVY DUTY - MM - PREMIUM	MS - HEAVY DUTY

ENGINE—FUEL SYSTEM

Recommended fuel	Standard head		PREMIUM	
	Optional head			
Fuel Tank	Capacity (gals.)		20	
	Filler Location		REAR CENTER	
Fuel Filter	Type		POROUS FIBER	CERAMIC OR POROUS FIBER
	Location		FUEL PUMP SEDIMENT BOWL	
Fuel pump	Type (elec. or mech.)		MECHANICAL DIAPHRAGM	
	Location		LOWER LEFT FRONT	
	Pressure range		4-5 PSI(IDLE)	4.5-5.5 PSI (IDLE)
	Vacuum booster (std., optl., none)		STANDARD	
Carburetor	Make		CARTER/HOLLEY	CARTER
	Model number		N. A.	N. A.
	Number used		ONE	ONE
	Type	Downdraft, side inlet, other	DOWNDRAFT	
		Single or dual	FOUR-BARREL	
	Intake manifold heat control (manual, auto., none)		AUTOMATIC	
	Automatic choke type (integral, other)		INTEGRAL	
	Air cleaner type	Standard	DRY - DISPOSABLE ELEMENT	
		Optional		

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		* SINGLE WITH CROSS OVER	
Muffler type (rev. flow, str. thru, sep.resonator)		3 PASSAGE REVERSE FLOW	
Exhaust pipe dia.	Branch	2.00	
	Main	2.00	
Tail pipe diameter		2.00	

* DUAL STANDARD ON MONTCLAIR AND TURNPIKE CRUISER SERIES

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ENGINE—COOLING SYSTEM

MODEL			312 CU. IN. ENGINE	368 CU. IN. ENGINE
Type (pressure system, atmospheric, other)			PRESSURE	
Radiator cap relief valve press.			12-15 PSI	
Circulation thermostat	Type (choke, bypass)		CHOKE	
	Starts to open at		157-162F	158-163F
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)			CELLULAR TUBULAR OR FIN AND TUBE	
Cooling system capacity	With heater (qt.)		21 QTS.	24 QTS.
	Without heater (qt.)		20 QTS.	23 QTS.
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	ONE MOLDED
		Inside diameter and length	2 x 12.00	2.00 x 12.52
	Upper	Number and type (molded, straight)	ONE MOLDED	ONE MOLDED
		Inside diameter and length	1.50 x 12.39	1.75 x 13.00
	By-pass	Number and type (molded, straight)	ONE MOLDED	
		Inside diameter and length	.578-.640 x 3.18	.88 x 1.40
Drive belts	Fan	Number used	ONE	TWO
		Angle of V	38°	
		Outside length	44.80	46.24
		Width	.38	.50
	Generator	Angle of V	SEE FAN BELT	
		Outside length		
		Width		
Fan	Number of blades and spacing		FOUR UNEQUAL	
	Diameter		18.25	
	Ratio—fan to crankshaft revolutions		.97:1	.90:1
	Bearing type		SEE WATER PUMP	

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MODEL			MONTEREY - MONTCLAIR	TURNPIKE CRUISER

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		VARIOUS	
	Voltage Rtg. & Plates/cell		12 VOLTS, 66 PLATES, 6 CELLS	12 VOLTS, 78 PLATES, 6 CELLS
	SAE Designation & Amp Hr. Rtg		55	70
	Location		ENGINE COMPARTMENT	
	Terminal grounded		NEGATIVE	
Generator	Make		FORD	
	Model			
	Type		SHUNT	
	Ratio—Gen. to Cr/s rev.		2:1	
Regulator	Make		FORD OR AMERICAN BOSCH	
	Model			
	Type		3-UNIT	
	Cutout relay	Closing voltage @ generator rpm	12.0 TO 12.8	
		Reverse current to open	2-6	
	Regulated	Voltage	14.6 - 15.4	
		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			
	Rotation (drive end view)		CLOCKWISE	
	Engine cranking speed		150-180	
	Test conditions		85° F.	
	Lock test	Amps	550 MAXIMUM	
		Volts	5	
		Torque (lb. ft.)	15.5 MINIMUM	
	No load test	Amps	85	
		Volts	12	
		RPM (min.)	4500	
Motor control	Switch (solenoid, manual)		SOLENOID	
	Starting procedure		MANUAL TRANS. - TURN IGNITION KEY TO RIGHT BEYOND "ON" POSITION	
			AUTOMATIC TRANS. - TURN IGNITION KEY TO "IGN" POSITION PRESS N/S KEY ON KEYBOARD	

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor drive	Engagement type		BENDIX FOLO-THRU
	Pinion meshes (front, rear)		FROM REAR
	Number of teeth	Pinion	9
		Flywheel	SYNCHROMESH - 146 a/ MERCOMATIC 152
	Flywheel tooth face width		.375

ELECTRICAL—IGNITION SYSTEM

Coil	Make		FORD & ESSEX WIRE
	Model		
	Amps	Engine stopped	4.5
		Engine idling	2.5
Distributor	Make		FORD OR HOLLEY
	Model		
	Spark advance data (at distributor shaft)	Centr. advance start (rpm)	2° @ 900 R.P.M.
		Centr. advance max. deg. @ rpm	25.5 @ 4000 R.P.M.
		Vacuum advance start (in. Hg.)	0° @ 5" H.G.
		Vac. adv. (max. deg. @ in. Hg.)	24° @ 15" H.G.
	Breaker gap (in.)		.014 - .016
	Cam angle (deg.)		26° - 28.5°
	Breaker arm tension (oz.)		17-20
Timing	C/S deg. @ rpm		3° BTDC (STD. & OD TRANS.) b/ 5° BTDC (AUTOMATIC TRANS.)
	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 860
	Thread (mm)		18 MM
	Tightening torque (lb. ft.)		20-30 PROD. INST. ONLY
	Gap		.032 - .036
Cable	Conductor type		STRANDED STEEL
	Insulation type		NEOPRENE SHEATH
	Spark plug protector		NEOPRENE CAP

ELECTRICAL—SUPPRESSION

Description	SHIELDED

a/ MERCOMATIC WITH 312 ENGINE HAS 148 TOOTH FLYWHEEL.
b/ 6° BTDC AUTOMATIC TRANSMISSION WITH 312 ENGINE.

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MODEL		MONTEREY - MONTCLAIR	TURNPIKE CRUISER

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	KING SEELEY	
	Trip odometer (yes, no)	NO	YES
Charge indicator—type		AMMETER	
Temperature indicator—type		ELECTRIC GAGE	
Oil pressure indicator—type		ELECTRIC GAGE	
Fuel indicator—type		ELECTRIC GAGE	
Ignition switch	Identify positions in order and circuits controlled	SWITCH FOR PUSH BUTTON TRANSMISSIONS - HAS NEUTRAL START SWITCH - IGNITION SWITCH POSITIONS ARE "ACC - OFF - IGN". SWITCH FOR CARS WITHOUT PUSH BUTTON TRANSMISSIONS - POSITIONS ARE: ACC - OFF - IGN - START.	
	Provision for illumination	LIGHTED WITH HEAD LIGHT SWITCH IN PARK POSITION	
	Location	TO RIGHT OF STEERING COLUMN	
	Theft protection type		
Main lighting switch	Identify positions and lights controlled	PULL OUT - 1ST POSITION: PARKING, TAIL, LICENSE & INSTRUMENT PANEL LIGHTS 2ND POSITION: HEAD, TAIL, LICENSE & INSTRUMENT PANEL LIGHTS ROTATE KNOB CLOCKWISE TO DIM INSTRUMENT PANEL LIGHTS.	
Other light switches	Locations and lamps controlled *	SWITCH INTEGRAL WITH LUG. COMPT. LAMP, SWITCH INTEGRAL WITH DOME LAMP. PUSH PULL SWITCH ON INST. PANEL. - INTERIOR LAMP FRONT DOOR SWITCH - INTERIOR LAMPS. TOE BOARD SWITCH - HEAD-LAMP DIMMER. BRAKE MASTER CYL. - STOP LAMP SWITCH. PARKING BRAKE - PARKING BRAKE WARNING. SWITCH INTEGRAL WITH GEAR SELECTOR - BACK-UP LIGHTS.	
Other switches	Locations and devices controlled Ø	LEVER ON STEERING COL. - TURN SIGNAL. SWITCH INTEGRAL WITH GEAR SELECTOR - STARTER. VACUUM SW. ON ENGINE - STARTER CUT-OFF. TOGGLE SW. ON INST. PNL. - TOP CONTROL. SW. UNDER ACCELERATOR PEDAL - O.D. KICKDOWN. DIAL ON INST. PNL. OR LEVER ON INST. PNL. EXTENSION. POWER SEAT BUTTONS ON INST. PNL. EXT. & ON REAR DOORS OR QTRS. POWER WINDOWS.	
Windshield wiper	Make	TRICO	
	Type	VACUUM	
	Vacuum booster provision	STANDARD	
	Washer provision	ALL	
Horn	Type	AIR-ELECTRIC	
	Number used	2	
	Amp draw (each)	10 MAXIMUM	

* SWITCH INTEGRAL WITH GLOVE BOX LAMP
* SWITCH INTEGRAL WITH SPOT LAMP

Ø SWITCH UNDER STEERING WHEEL HUB - HORNS
Ø TOGGLE SWITCH ON INST. PANEL - HEATER BLOWER

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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-#5.00	2-4002 - LOW BEAM 2-4001 - HIGH BEAM
Headlamp beam indicator		1-#1445	
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		
License plate light		1-#67	
Instrument light		3-#57	
Ignition lock light		1-#57	
Map light		1-#89	
Dome light		1-#1003	
Clock light		1-#57	
Radio dial light		1-#57	
Glove compartment light		1-#57	
Courtesy light		2-#89	
Trunk compartment light		2-#89	
Other		HEATER CONTROLS 2-#57; HAND BRAKE WARNING 1-#57; AUTO. TRANS. QUADRANT 1-#57; BACK-UP LIGHTS 2-#1141; AIR CONDITIONER CONTROLS 1-#57; INSTRUMENT WARNING LIGHT 1-#57; ROAD LAMPS (CLEAR) 2-#4415, (AMBER) 2-#4415-A.	

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	SAME AS (c)
Clock	ELECTRIC WIND IAG-1
Clock light	SAME AS (b)
Radio	SFE-7.5
Glove compartment light	SAME AS (c)
Courtesy light	SAME AS (c)
Trunk compartment light	SAME AS (b)
Other	CONV. TOP 30 C.B; POWER SEAT & WINDOWS AS FOLLOWS: 30 C.B (LINE PROTECTOR) 15 C.B (EACH WINDOW MOTOR) 15 C.B (COMMON TO BOTH SEAT MOTORS) 20 C.B AIR CONDITIONER; HEATER SFE-14, CIGAR LIGHTER - THERMAL FUSE PLUG AGC-15; OVERDRIVE AGC-15; W/S WASHER SFE-7.5.

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MODEL	MONTEREY - MONTCLAIR	TURNPIKE CRUISER

DRIVE UNITS—CLUTCH (PEDAL OPERATED)

Make			BORG & BECK	NONE
Type (dry or wet plate)			DRY	
In combination with fluid coupling (yes, no)			NO	
Semi-centrifugal (yes, no)			NO	
Type pressure plate springs			SPRING STEEL	
Total plate pressure (lb.)			1840	
No. of clutch driven discs			ONE	
Clutch facing	Material		WOVEN ASBESTOS	
	Inside diameter		6.5	
	Outside diameter		10.50	
	Total eff. area (sq. in.)		106.8	
	Thickness		0.125	
	Number required		TWO	
	Engagement cushioning method		BORGLITE DISC W/VIBRATIONS DAMPER	
	Release bearing	Type	SEALED BALL THRUST	
		Method of lubrication	PREPACKED	
	Torsional damping	Method (springs, other)	SPRINGS	
		Frict. mat.		

DRIVE UNITS—TRANSMISSIONS

Conventional (std. or opt.)	STANDARD - MONTEREY SERIES	N.A.
Conventional with overdrive (std. or opt.)	OPTIONAL - MONTEREY SERIES	N.A.
Automatic (std. or opt.)	STANDARD - MONTCLAIR SERIES (a)	STANDARD

DRIVE UNITS—CONVENTIONAL TRANSMISSION

Number of forward speeds		THREE	N.A.
Transmission ratios	In first	2.49:1	
	In second	1.59:1	
	In third	1.00:1	
	In fourth		
	In reverse	3.15:1	
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	

(a) OPTIONAL ON MONTEREY SERIES

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MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL			MONTEREY - MONTCLAIR	TURNPIKE CRUISER

DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

Lubricant	Capacity (pt.)		3.25	NONE
	Type recommended			
	SAE viscosity number	Summer	SAE 80	
		Winter	SAE 80	
		Extreme cold	SAE 80	

DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

Overdrive	Type (planetary or other)		PLANETARY	NONE
	If planetary, No. of pinions		THREE	
	Manual lockout (yes, no)		NO	
	Downshift accelerator control (yes, no)		YES	
	Minimum cut-in speed		28 MPH	
	Gear ratio *		.72:1	
	Lubricant: Capacity (O.D. only)			
	Lubricant: Separate filter (yes, no)		NO	
	Lubricant: Type recommended			
	Lubricant: SAE viscosity number	Summer	SAE 80	
		Winter	SAE 80	
		Ext. cold	SAE 80	

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	MERC-O-MATIC
Type (fluid coupling with gears, torque convertor with gears, other)	TORQUE CONVERTER WITH GEARS
Manual selector positions, left to right (show symbols and define, e.g., N- Neutral)	PUSH BUTTON CONTROL R Reverse — N/S Neutral Start — L Low — DR Drive — PARK Park
List gear ratios in each drive position (range) *	LOW AND KICKDOWN - 1ST - 2.40:1 DRIVE POSITION - 2ND - 1.46:1 3RD - 1.00:1 REVERSE - 2.00:1
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)	69 MPH

* Revised 4-30-57

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MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL			MONTEREY - MONTCLAIR	TURNPIKE CRUISER
DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)				
Torque convertor	Number of elements		THREE	
	Max. ratio at stall at engine rpm		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)		OIL COOLER IN RADIATOR LOWER TANK	
	Anti-creep device (yes, no)		NO	
Lubricant	Capacity—refill (pt.)		21 PTS.	
	Type recommended		TYPE "A"	
	Grade	Summer		
		Winter		
		Extreme cold		
DRIVE UNITS—PROPELLER SHAFT				
Number used			ONE	
Type (exposed, torque tube)			EXPOSED	
Outer diameter x length* x wall thickness	Conventional trans.		3.25 x 2.00 x 53.56 x .065 (TAPERED SHAFT)	
	Overdrive trans.		3.25 x 2.00 x 53.56 x .065 (TAPERED SHAFT)	
	Automatic trans.		3.25 x 2.00 x 57.55 x .065 (TAPERED SHAFT)	
Intermediate bearing	Type (plain, anti-friction)		NONE	
	Lubri. (fitting, prepack)			
Universal joints	Make		SPICER	
	Number used		TWO	
	Type (ball and trunnion, cross, other)		CROSS	
	Bearing	Type (plain, anti-friction)	NEEDLE ROLLERS	
		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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MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL			MONTEREY - MONTCLAIR	TURNPIKE CRUISER
DRIVE UNITS—REAR AXLE				
Type (semi-floating, other)			SEMI-FLOATING	
Gear type (hypoid, other)			HYPOID	
Gear ratio and No. of teeth	Conventional trans.		3.70:1 (37-10)	NONE
	Overdrive trans.		3.89:1 (35-9)	NONE
	Automatic trans. *		3.22:1 (29-9) STD 2.91:1 (32-11) OPT	
Pinion adjustment (shim, other)			SHIMS	
Pinion bearing adj. (shim, other)			SHIMS	
Lubricant	Capacity (pt.)		5 PTS.	
	Type recommended		EXTREME PRESSURE HYPOID	
	SAE viscosity number	Summer	SAE 90	
		Winter	SAE 80	
		Extreme cold		
DRIVE UNITS—WHEELS				
Type (disc, other)			PRESSED STEEL DISC	
Rim (size and flange type)			14 x 6JK	
Attachment	Type (bolt or stud)		BOLT	
	Circle diameter		5 INCHES	
	Number and size			
DRIVE UNITS—TIRES				
Size and ply rating	Standard		8.00 x 14 4 PLY (a)	
	Optional		8.00 x 14 6 PLY	
Rev/mile at 30 mph			774 @ 35 MPH	
Inflation press. (cold)	Front		24	
	Rear		24	
BRAKES—SERVICE				
Type			HYDRAULIC, SINGLE ANCHOR, INTERNAL EXPANDING	
Booster type			VACUUM (OPTIONAL)	VACUUM (STANDARD)
Effective area (sq. in.)			212.12	233.38
Percent brake effectiveness—rear			41%	
Drum	Diameter	Front	11	
		Rear	11	
	Type and material		PRESSED STEEL DISC FUSED TO CAST IRON RIM	

(a) 8.50 - 14 ON ALL A/C Cars

* Revised 2-15-57

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MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL				MONTEREY - MONTCLAIR	TURNPIKE CRUISER
BRAKES—SERVICE (cont.)					
Brake lining	Bonded or riveted			RIVETED	
	Primary *	Material		MOLDED ASBESTOS	
		Size (length x width x thickness)	Front wheel	9.28 x 2.50 x 0.187	9.28 x 3.00 x 0.187 (a)
			Rear wheel	9.28 x 2.50 x 0.187	9.28 x 2.50 x 0.187
		Segments per shoe		ONE	
	Secondary *	Material		MOLDED ASBESTOS	
		Size (length width x thickness)	Front wheel	11.93 x 2.50 x 0.187	11.93 x 3.00 x 0.187 (a)
			Rear wheel	11.93 x 2.50 x 0.187	11.93 x 2.50 x 0.187
		Segments per shoe		ONE	
Wheel cylinder bore	Front			1.125	
	Rear			.9375	
Master cylinder bore *				1.00	.656 (b)
Available pedal travel *				6.50	4.75 (b)
Line pressure at 100 lb. pedal load *				APPROX. 700 PSI	APPROX. 1050 PSI (b)
Shoe clearance adjustment					

BRAKES—PARKING

Type of control		STEP ON LEVER WITH RELEASE BUTTON BELOW INST. PANEL L.H. SIDE
Location of control		
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	LADDER TYPE WITH BOX SECTION SIDE RAILS AND FIVE CROSSMEMBERS.

FRONT SUSPENSION

Type and description	INDEPENDENT BALL JOINT COIL SPRING SYSTEM INCORPORATING TWO UNEQUAL LENGTH TRANSVERSE CONTROL ARMS.

(a) ALL MONTEREY-MONTCLAIR SERIES WITH 368 CU. IN. ENGINE

(b) ALL MONTEREY-MONTCLAIR SERIES WITH POWER BRAKES

*Revised 4-30-57

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MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL			MONTEREY - MONTCLAIR	TURNPIKE CRUISER

FRONT SUSPENSION (cont.)

	Type	COIL	
	Material	SAE 9260 OR 5160	
Spring	Size (length x width x No. leaves or coil I.D.)	17.68 x 4.03	17.63 x 4.03
	Spring rate (lb. per in.)	330	350
	Rate at wheel (lb. per in.)	107	
	Normal load (lb. @ rated length)	2330 @ 10.50	2450 @ 10.50
Shock absorbers	Manufacturer	FORD, GABRIEL	
	Type (direct or lever)	DIRECT	
	Piston diameter	1.00	
Stabilizer	Type (link, linkless, frameless)	LINK-FRAME MOUNTED	
	Material		

STEERING

Type used (Standard or optional)			Mechanical	STANDARD	N.A.
			Power	OPTIONAL	STANDARD
Wheel diameter				17	
* Turning diameter	Outside front		Wall to wall (r. & l.)	N.A.	
			Curb to curb (r. & l.)	43.78 MANUAL	43.32 POWER
	Inside rear		Wall to wall (r. & l.)	N.A.	
			Curb to curb (r. & l.)	N.A.	
Inside wheel angle with outside wheel at 20°				24^{o} 45'	
Mechanical	Gear	Type		RECIRCULATING BALL AND RACK	
		Make		SAGINAW	
		Ratios	Gear	20:1	
			Overall	27:1	
	No. wheel turns			5	
Power	Type			LINKAGE BOOSTER	
	Make			BENDIX	
	Trade name				
	Gear	Type		RECIRCULATING BALL AND RACK	
		Ratios	Gear	20:1	
			Overall	24:1	
	Pump driven by			BELT TO CRANKSHAFT	
	Overall torque ratio				
	Number wheel turns				
Linkage	Type			PARALLELOGRAM	
	Location (front or rear of wheels)			REAR OF WHEELS	
	Drag link (trans. or long) Tie rods (one or two)			TWO TRANSVERSE	

* Revised 1-23-57

AMA Consolidated Specification Questionnaire

MAKE OF CAR MERCURY **MODEL YEAR** 1957

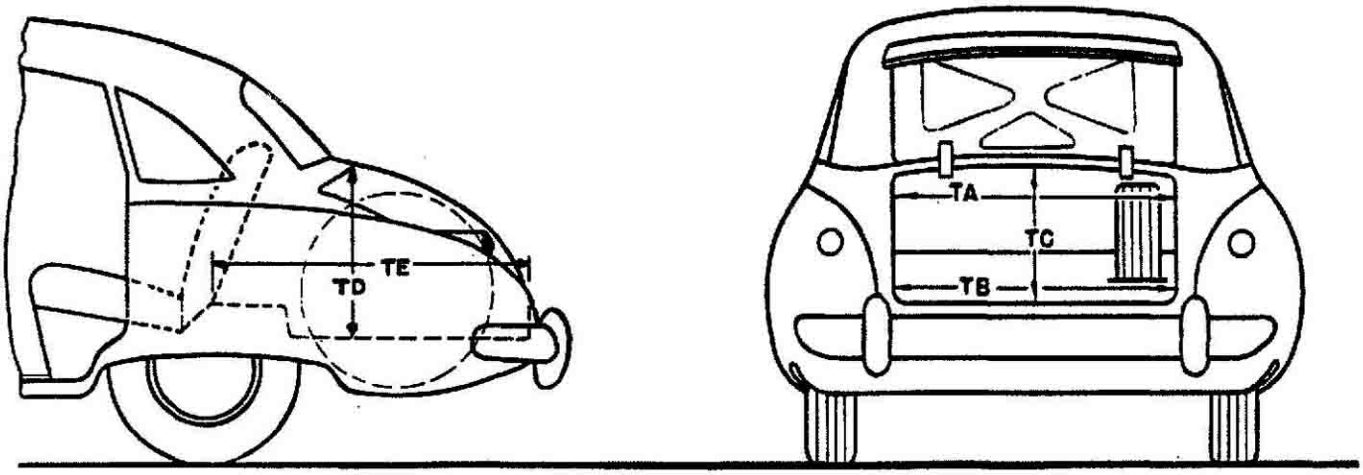
BODY—GENERAL DEFINITIONS

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 *	MONTEREY - 57A, 58A MONTCLAIR - 57B, 58B	TURNPIKE CRUISER - 75A

BODY—TRUNK OPENING DIMENSIONS



TA—Width across the top	63.3	63.3
TB—Width across the bottom	59.0	59.0
TC—Diagonal dimension at CL from top of opening to bottom	35.9	35.9
TD—Vertical height of opening (floor to top, inside edge of opening)	19.0	18.6
TE-Max. horizontal depth (forward from vertical projection of inside edge of opening)	58.7	58.7
Position of spare tire stowage	RIGHT HAND SIDE ANGLE	
Method of holding lid open	SPRING COUNTER BALANCE	

* Revised 4-30-57

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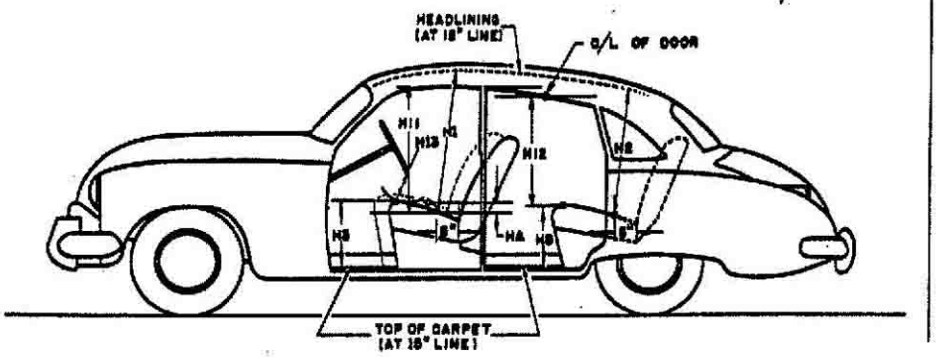
MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL	*	MONTEREY - 57A, 58A MONTCLAIR - 57B, 58B	TURNPIKE CRUISER - 75A

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)		33.9	33.7
H2. Rear headroom—from "A" pt. to headlining at 8° back of vertical on 15" line. *		33.2	33.5
H3. Front seat height to floor carpet on 15" line (front edge of cushion).		10.6	10.6
H8. Rear seat height to floor carpet on 15" line (front edge of cushion).		14.5	14.5
H11. Entrance—front—cushion "A" point to bottom windcord vertical.	57A,B 29.5	58A,B 28.8	29.5
H12. Entrance—rear—top of cushion to bottom windcord vertical at C/L of rear door.	57A,B 25.5	58A,B 25.8	26.3
H13. Steering wheel clearance to seat cushion taken on arc.		5.5	5.5
HA. Front seat vertical rise at "A" pt. (inches.)			

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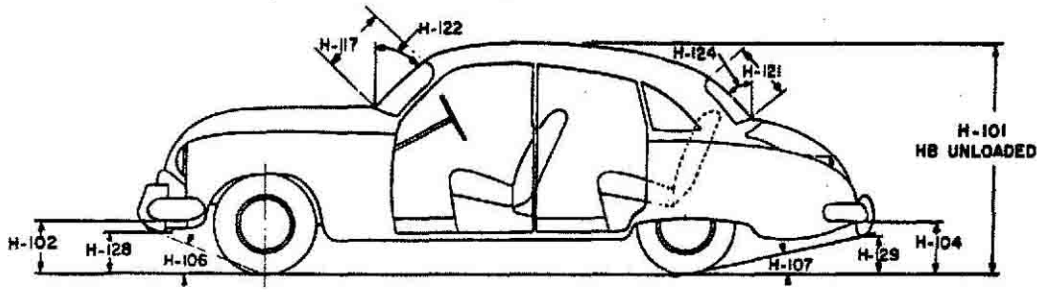
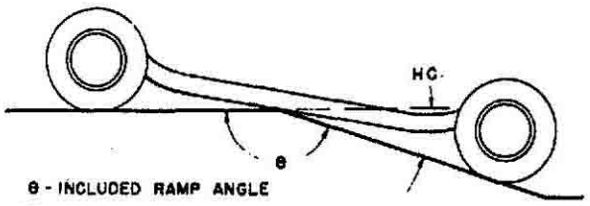
MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL * MONTEREY - 57A, 58A; MONTCLAIR - 57B, 58B; TURNPIKE CRUISER - 75A

BODY—HEIGHT DIMENSIONS—EXTERIOR





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

H101. Overall height.	56.6	56.4
HB. Overall height—unloaded.	58.2	57.9
H102. Front bumper bottom to ground at normal section.	10.9	10.9
H104. Rear bumper bottom to ground at normal section.	10.8	10.8
H106. Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.	21° 50'	21° 50'
H107. Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard.	11°	11°
HC. Ramp breakover angle.*	12° 10'	12° 10'
H117. Windshield DLO-slant height.	17.6	18.6
H121. Backlight DLO*—Max., slant height.	22.5	12.2
H122. Windshield slope angle to vertical line on car axis.	43° 30'	43° 30'
H124. Backlight slope angle to vertical line on car axis.	53° 30'	22° 45'
H128. Ground to bottom of front bumper guard.	NONE	NONE
H129. Ground to bottom of rear bumper guard.	NONE	NONE
HD. Min. road clearance (location and dimension). *	5.9 FRAME	5.9 FRAME
HE. Min. road clearance at rear axle.	7.3	7.3

*See Notes, page 19.

* Revised 4-30-57

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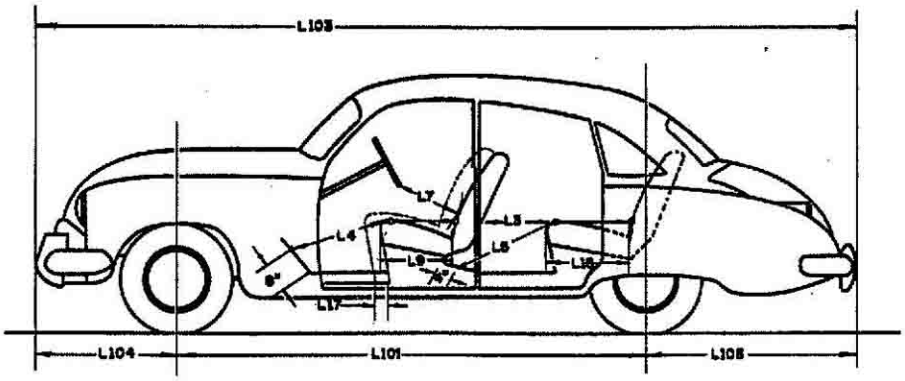
MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL *	MONTEREY - 57A, 58A MONTCLAIR - 57B, 58B	TURNPIKE CRUISER - 75A

BODY—LENGTH DIMENSIONS



Interior	L3. Rear compartment back of front seat back to rear seat back.	31.5	31.5
	L4. Leg room—front—diagonal—ball of foot to top of seat to front seat back—15" line.	44.2	44.2
	L5. Leg room—rear—diagonal—from ball of foot to top of rear seat cushion and to seat back. *	43.3	43.3
	L7. Steering wheel clearance to seat back taken on arc.	14.4	14.4
	L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	18.6	18.6
	L16. Depth of rear seat (front edge to seat back).	18.6	18.6
	L17. Total adjustment of front seat at floor.	5.0	5.0
Exterior	L101. Wheel base.	122.0	122.0
	L103. Overall length (bumper to bumper inc. guards).	211.1	211.1
	L104. Overhang—front including bumper guards.	31.8	31.8
	L105. Overhang—rear including bumper guards.	57.4	57.4

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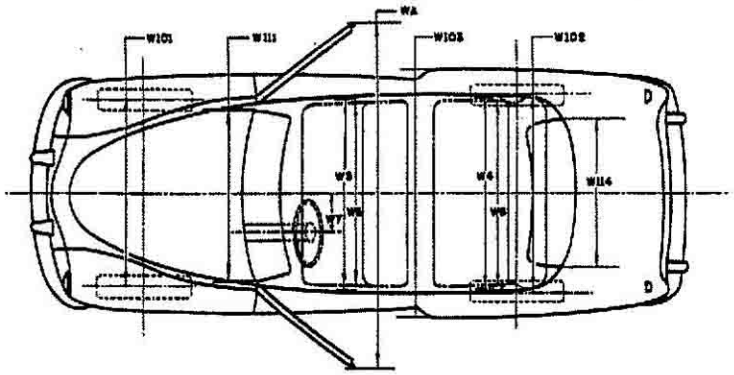
MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL	*	MONTEREY - 57A, 58A MONTCLAIR - 57B, 58B	TURNPIKE CRUISER - 75A

BODY—WIDTH DIMENSIONS



Interior	**W3.** Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.2	60.4
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.2	60.3
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	61.3	61.3
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	62.9	62.9
	W7. Steering wheel center to center of body.	15.4	15.4
Exterior	**W101.** Front tread at ground.	59.4	59.4
	W102. Rear tread at ground.	59.0	59.0
	W103. Max. overall width of car including bumpers or mouldings.	79.1	79.1
	WA. Max. overall width of car with doors open.	148.5	148.5
	W111. Windshield DLO, max. width.	62.6	62.6
	W114. Back window DLO, max. width.	63.4	59.9

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MAKE OF CAR MERCURY **MODEL YEAR** 1957

MODEL *	MONTEREY 57A, 58A MONTCLAIR 57B, 58B	TURNPIKE CRUISER 75A

BODY—MISCELLANEOUS INFORMATION

Doors hinged (front, rear)	Front	FRONT	
	Rear	FRONT	
Type of finish (lacquer, enamel)		ENAMEL	
Hood opening (front, side; semi-full, full, half)		REAR-FULL	
Hood counterbalanced (yes, no)		YES	
Hood release control (internal, external)		INTERNAL	
Vent window control method (crank, friction, pivot).		FRICTION PIVOT	
Windshield (one piece, two piece; curved, flat)		WRAPAROUND - ONE-PIECE - CURVED	
Rear window type (one piece, two piece, three piece; curved, flat)		ONE-PIECE - CURVED	
Windshield glass area		1169.46	1312.00
Backlight glass area		1504.10	715.22
Total glass area		3836.00 (57A,B) 3890.96 (58A,B)	3338.68

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)	MONTEREY - MONTCLAIR	TURNPIKE CRUISER
	D-6	J-6
	J-6	K-6
	L-6	L-6
	K-6	
	N-6	
	P-6	
	P-9	

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

* Revised 4-30-57

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