

# AMA Specifications – Passenger Car

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Data prepared and distributed by American automobile manufacturers, using uniform questionnaire form developed by car manufacturers under auspices of the Automobile Manufacturers Association.

**MAKE OF CAR** MERCURY

**MODEL YEAR** 1958

**DATE: ISSUED** 2-19-58 **REVISED**

**COMPANY**

MODEL NAME

SYMBOL

2 - DOOR SEDAN - 64B

MODEL NAME

SYMBOL

4 - DOOR SEDAN - 58C

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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.

UNLESS OTHERWISE INDICATED:

2. All specifications are standard for the models under which they are listed.
3. Specifications apply basically to 4-door sedan or equivalent. Body dimensions shown on pages 19-24 include other body models available.
4. All dimensions are nominal engineering dimensions.

## GENERAL SPECIFICATIONS

| MODEL                                                       |                             | Additional Information Page No.: | 64B         | 58C |
|-------------------------------------------------------------|-----------------------------|----------------------------------|-------------|-----|
| Wheelbase (L-101)                                           |                             | 22                               | 122         |     |
| Tread                                                       | Front (W-101)               | 23                               | 59.4        |     |
|                                                             | Rear (W-102)                | 23                               | 59.0        |     |
| Maximum Overall Dimensions                                  | Length (L-103)              | 22                               | 213.2       |     |
|                                                             | Width (W-103)               | 23                               | 81.1        |     |
|                                                             | Height (H-101)              | 21                               | 56.6        |     |
| Transmission—<br>(Specify trade name - opt., not available) | Manual                      | 12                               | STANDARD    |     |
|                                                             | Overdrive                   | 13                               | OPTIONAL    |     |
|                                                             | Automatic                   | 13                               | OPTIONAL    |     |
| Axle ratio                                                  | Manual                      | 14                               | 3.56:1      |     |
|                                                             | Overdrive                   | 14                               | 3.56:1      |     |
|                                                             | Automatic                   | 14                               | 3.10:1      |     |
| Tire size                                                   |                             | 15                               | 7.50 X 14   |     |
| Engine                                                      | Type, no. cyl., valve arr.  | 2                                | 90° V-8 OHV |     |
|                                                             | Fuel system (Carb. or inj.) | 6                                | CARBURETOR  |     |
|                                                             | Bore and stroke             | 2                                | 3.80 X 3.44 |     |
|                                                             | Piston displ., cu. in.      | 2                                | 312         |     |
|                                                             | Std. compression ratio      | 2                                | 9.7:1       |     |
|                                                             | Max. bhp at engine rpm      | 2                                | 235 @ 4600  |     |
|                                                             | Max. torque at rpm          | 2                                | 325 @ 2600  |     |

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MODEL 64B 58C

## ENGINE—GENERAL

|                                                                               |          |                 |
|-------------------------------------------------------------------------------|----------|-----------------|
| Type, no. cyls., valve arr.                                                   |          | 90° V-8 OHV     |
| Bore and stroke                                                               |          | 3.80 X 3.44     |
| Piston displacement, cu. in.                                                  |          | 312             |
| Bore spacing (C/L to C/L)                                                     |          | 4.38            |
| No. 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 |
| Compres. ratio (nominal)                                                      | Standard | 97:1            |
|                                                                               | Optional | - - -           |
| Cylinder Head Material                                                        | Standard | CAST IRON       |
|                                                                               | Optional | - - -           |
| Cylinder Sleeve - Wet, dry, none                                              |          | - - -           |
| Number of mounting points                                                     | Front    | TWO             |
|                                                                               | Rear     | ONE             |
| Taxable $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{\text{horsepower } 2.5}$ |          | 46.21           |
| Published max. bhp at engine RPM*                                             | Standard | 235 @ 4600      |
|                                                                               | Optional | - - -           |
| Published max. torque* (lb. ft. @ RPM)                                        | Standard | 325 @ 2600      |
|                                                                               | Optional | - - -           |
| Recommended fuel regular - premium                                            | Standard | PREMIUM         |
|                                                                               | Optional | - - -           |
| Recommended idle speed (neutral)                                              |          | 475-500 R.P.M.  |

## ENGINE—PISTONS

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Material                 | ALUMINUM ALLOY                                                |
| Description and finish   | AUTOTHERMIC, SOLID SKIRT<br>CAM GROUND, FLAT HEAD, TIN PLATED |
| Weight (piston only) oz. | 20.63                                                         |

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

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## ENGINE PISTONS (Cont.)

|                    |            |        |             |
|--------------------|------------|--------|-------------|
| Clearance (limits) | Top land   |        | .0230-.0284 |
|                    | Skirt      | Top    | .0010-.0024 |
|                    |            | Bottom | .0006-.0012 |
| Ring groove depth  | No. 1 ring |        | .1995-.2057 |
|                    | No. 2 ring |        | .1995-.2057 |
|                    | No. 3 ring |        | .1905-.1967 |
|                    | No. 4 ring |        | - - -       |

## ENGINE—RINGS

|                          |                                             |           |                                                                                    |
|--------------------------|---------------------------------------------|-----------|------------------------------------------------------------------------------------|
| Function (top to bottom) | No. 1, oil or comp.                         |           | COMPRESSION                                                                        |
|                          | No. 2, oil or comp.                         |           | COMPRESSION                                                                        |
|                          | No. 3, oil or comp.                         |           | OIL                                                                                |
|                          | No. 4, oil or comp.                         |           | - - -                                                                              |
| Compression              | Description - material, type, coating, etc. |           | (1) PLAIN, CAST IRON, CROME<br>(2) SCRAPER, CAST IRON, PHOSPHATE                   |
|                          | Width                                       |           | (1) .0775-.0780 (2) .0930-.0940                                                    |
|                          | Gap                                         |           | .012-.022                                                                          |
| Oil                      | Description - material, type, coating, etc. |           | 3 PIECE (2 RAILS, 1 EXPANDER) STEEL<br>RAILS, CHROME PLATED; EXPANDER, BLACK OXIDE |
|                          | Width                                       |           | .1879 (ASSEMBLED)                                                                  |
|                          | Gap                                         |           | .015-.055                                                                          |
| Expanders                |                                             | SEGMENTED |                                                                                    |

## ENGINE—PISTON PINS

|                                     |                                          |                          |                      |
|-------------------------------------|------------------------------------------|--------------------------|----------------------|
| Material                            |                                          | ALLOY STEEL-HEAT TREATED |                      |
| Length                              |                                          | 3.022-3.028              |                      |
| Diameter                            |                                          | .9120-.9123              |                      |
| Type                                | Locked in rod, in piston, floating, etc. |                          | FLOATING             |
|                                     | Bushing                                  | In rod or piston         | IN ROD               |
|                                     |                                          | Material                 | BRONZE               |
| Clearance                           | In piston                                |                          | .0001-.0003 SLIP FIT |
|                                     | In rod                                   |                          | .0001-.0003 SLIP FIT |
| Direction & amount offset in piston |                                          |                          | RIGHT .062           |

## ENGINE—CONNECTING RODS

|                           |                    |                                                   |
|---------------------------|--------------------|---------------------------------------------------|
| Material                  |                    | FORGED STEEL                                      |
| Weight (oz.)              |                    | 22.82                                             |
| Length (center to center) |                    | 6.250 - 6.254                                     |
| Bearing                   | Material & Type    | STEEL BACKED - COPPER LEAD<br>REPLACEABLE INSERTS |
|                           | Overall length     | .726                                              |
|                           | Clearance (limits) | .0007 - .0025                                     |
|                           | End play           | .006 - .016 (2 RODS)                              |

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## ENGINE—CRANKSHAFT

|                                   |                                                     |       |                                                   |  |  |
|-----------------------------------|-----------------------------------------------------|-------|---------------------------------------------------|--|--|
| Material                          |                                                     |       | CAST ALLOY IRON                                   |  |  |
| Vibration damper type             |                                                     |       | RUBBER FLOATED                                    |  |  |
| End thrust taken by bearing (No.) |                                                     |       | 3                                                 |  |  |
| Crankshaft end play               |                                                     |       | .004 - .008                                       |  |  |
| Main bearing                      | Material & type                                     |       | STEEL BACKED - COPPER LEAD<br>REPLACEABLE INSERTS |  |  |
|                                   | Clearance                                           |       | .0005 - .0029                                     |  |  |
|                                   | Journal<br>dia. and<br>bearing<br>overall<br>length | No. 1 | 2.6235 - 2.6243 X .693                            |  |  |
|                                   |                                                     | No. 2 | 2.6235 - 2.6243 X .693                            |  |  |
|                                   |                                                     | No. 3 | 2.6235 - 2.6243 X .665                            |  |  |
|                                   |                                                     | No. 4 | 2.6235 - 2.6243 X .693                            |  |  |
|                                   |                                                     | No. 5 | 2.6235 - 2.6243 X .693                            |  |  |
|                                   |                                                     | No. 6 | - - -                                             |  |  |
|                                   |                                                     | No. 7 | - - -                                             |  |  |
|                                   | Dir. & amt. cyl. offset                             |       | R.H. BANK AHEAD 1"                                |  |  |
| Crankpin journal diameter         |                                                     |       | 2.1880 - 2.1888                                   |  |  |

## ENGINE—CAMSHAFT

|               |                                      |                                           |                        |
|---------------|--------------------------------------|-------------------------------------------|------------------------|
| Location      |                                      | ABOVE CRANKSHAFT AT CENTER OF VALLEY      |                        |
| Material      |                                      | SPECIAL ALLOY IRON                        |                        |
| Bearings      | Material                             | STEEL BACKED BABBITT - REPLACEABLE INSERT |                        |
|               | Number                               | 5                                         |                        |
| Type of drive | Gear or chain                        |                                           | CHAIN                  |
|               | Crankshaft gear or sprocket material |                                           | SINTERED IRON OR STEEL |
|               | Camshaft gear or sprocket material   |                                           | CAST IRON              |
|               | Timing chain                         | No. of links                              | 56                     |
|               |                                      | Width                                     | 1.00                   |
|               |                                      | Pitch                                     | .375                   |

## ENGINE—VALVE SYSTEM

|                                                        |         |                                      |  |
|--------------------------------------------------------|---------|--------------------------------------|--|
| Hydraulic lifters (Std, opt, NA)                       |         | STANDARD                             |  |
| Special provision for valve rotation (intake, exhaust) |         | FORD FREE TURN<br>INTAKE AND EXHAUST |  |
| Rocker ratio                                           |         | 1.54:1                               |  |
| Operating tappet clearance (indicate hot or cold)      | Intake  | .019 HOT                             |  |
|                                                        | Exhaust | .019 HOT                             |  |
| 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°                    |
|         |                                | Duration - deg.          | 256°                   |
|         | Exhaust                        | Opens (°BBC)             | 66°                    |
|         |                                | Closes (°ATC)            | 10°                    |
|         |                                | Duration - deg.          | 256°                   |
|         | Valve opening overlap          |                          | 28°                    |
| Intake  | Material                       |                          | NO. 1 SILICHRONE STEEL |
|         | Overall length                 |                          | 5.11                   |
|         | Actual overall head dia.       |                          | 1.920 - 1.930          |
|         | Angle of seat                  |                          | 45° 30' - 45° 45'      |
|         | Seat insert material           |                          | NONE                   |
|         | Stem diameter                  |                          | .3416 - .3423          |
|         | Stem to guide clearance        |                          | .001 - .002            |
|         | Lift                           |                          | .400                   |
|         | Outer spring press. and length | Valve closed (lb. @ in.) | 71-79 @ 1.78           |
|         |                                | Valve open (lb. @ in.)   | 161 - 177 @ 1.39       |
|         | Inner spring press. and length | Valve closed (lb. @ in.) | - - -                  |
|         |                                | Valve open (lb. @ in.)   | - - -                  |
| Exhaust | Material                       |                          | AUSTENITIC STEEL       |
|         | Overall length                 |                          | 5.09                   |
|         | Actual overall head dia.       |                          | 1.505 - 1.515          |
|         | Angle of seat                  |                          | 45° 30' - 45° 45'      |
|         | Seat insert material           |                          | NONE                   |
|         | Stem diameter                  |                          | .3403 - .3410          |
|         | Stem to guide clearance        |                          | .0023 - .0037          |
|         | Lift                           |                          | .420                   |
|         | Outer spring press. and length | Valve closed (lb. @ in.) | 71-79 @ 1.78           |
|         |                                | Valve open (lb. @ in.)   | 161-177 @ 1.39         |
|         | Inner spring press. and length | Valve closed (lb. @ in.) | - - -                  |
|         |                                | 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        |
|                                                | Timing gear or chain | GRAVITY        |
|                                                | Cylinder walls       | PRESSURE STEAM |

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## ENGINE—LUBRICATION SYSTEM (cont.)

|                                                             |                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Oil pump type                                               | ROTOR                                                                                  |
| Normal oil pressure (lb. @ engine rpm)                      | 45-50 @ 2000                                                                           |
| Oil pressure sending unit (electric or mechanical)          | ELECTRICAL                                                                             |
| Type oil intake (floating, stationary)                      | STATIONARY                                                                             |
| Oil filter system (full flow, partial, other)               | FULL FLOW                                                                              |
| Filter replacement (element, complete)                      | COMPLETE                                                                               |
| Capacity of crankcase, less filter-refill (qt.)             | 5                                                                                      |
| Oil grade recommended (SAE viscosity and temperature range) | ABOVE + 30°F - SAE 20 OR 20W<br>+32°F TO -10°F - SAE 10 OR 10W<br>BELOW -10°F - SAE 5W |
| Oil type recommended                                        | HEAVY DUTY-MM-PREMIUM                                                                  |

## ENGINE—EXHAUST SYSTEM

|                                                                      |                        |
|----------------------------------------------------------------------|------------------------|
| Type (single, single with cross-over, dual, other)                   | SINGLE-"Y" TYPE        |
| Muffler No. & type (reverse flow, straight thru, separate resonator) | 3 PASSAGE REVERSE FLOW |
| Exhaust pipe dia. (O.D.)                                             | 2.00                   |
| Branch wall thickness)                                               | 2.00                   |
| Main                                                                 | 2.00                   |
| Tail pipe diameter (O.D. & wall thickness)                           | 2.00                   |

## ENGINE—FUEL SYSTEM

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

|                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| Induction type: Carburetor, fuel injection, supercharger. | CARBURETOR                                              |
| Fuel Tank                                                 | Capacity (gals.) 20                                     |
|                                                           | Filler location REAR CENTER                             |
| Fuel Pump                                                 | Type (elec. or mech.) MECHANICAL                        |
|                                                           | Locations LOWER LEFT FRONT                              |
|                                                           | Pressure range 4-5 P.S.I. (IDLE)                        |
| Vacuum booster (std., optional, none)                     | STANDARD                                                |
| Fuel Filter                                               | Type POROUS FIBER                                       |
|                                                           | Locations FUEL PUMP SEDIMENT BOWL                       |
| Carburetor                                                | Make & Model No. HOLLEY                                 |
|                                                           | Number & Type ONE - 2 BARREL DOWNDRAFT                  |
|                                                           | Barrel size 1.4375                                      |
|                                                           | Choke type AUTOMATIC - INTEGRAL                         |
|                                                           | Intake manifold heat control (exhaust or water) EXHAUST |
| Air clnr. type                                            | Standard DRY - PLEATED PAPER                            |
|                                                           | Optional - - -                                          |

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## ENGINE—COOLING SYSTEM

|                                                    |                              |                                    |                            |
|----------------------------------------------------|------------------------------|------------------------------------|----------------------------|
| Type (pressure system, atmospheric, other)         | PRESSURE                     |                                    |                            |
| Radiator cap relief valve pressure                 | 12 - 15 P.S.I.               |                                    |                            |
| Circulation                                        | Type (choke, bypass)         | CHOKE 1 IN INTAKE MANIFOLD         |                            |
| thermostat                                         | Starts to open at (°F)       | 157°F - 162°F (FULL OPEN AT 182°F) |                            |
| Water pump                                         | Type (centrifugal, other)    | CENTRIFUGAL                        |                            |
|                                                    | Number of pumps              | ONE                                |                            |
|                                                    | Drive (V-belt, other)        | V-BELT                             |                            |
|                                                    | Bearing type                 | DOUBLE ROW - SEALED BALL           |                            |
| By-pass recirculation type (internal, external)    |                              | EXTERNAL                           |                            |
| Radiator core type (cellular, tube and fin, other) |                              | TUBE AND FIN                       |                            |
| Cooling system capacity                            | With heater (qt.)            | 21                                 |                            |
|                                                    | Without heater (qt.)         | 20                                 |                            |
|                                                    | Opt. equipment-specify (qt.) | - - -                              |                            |
| Water jackets full length of cylinder (yes, no)    |                              | YES                                |                            |
| Water all around cylinder (yes, no)                |                              | YES                                |                            |
| Radiator hose                                      | Lower                        | Number and type (molded, straight) | ONE - MOLDED               |
|                                                    |                              | Inside diameter                    | 2.00 IN.                   |
|                                                    | Upper                        | Number and type (molded, straight) | ONE - MOLDED               |
|                                                    |                              | Inside diameter                    | 1.50 IN.                   |
|                                                    | By-pass                      | Number and type (molded, straight) | ONE - MOLDED               |
|                                                    |                              | Inside diameter                    | .578 - .640 x 3.18         |
| Fan                                                | Number of blades & Spacing   |                                    | FOUR: 76°, 104°, 76°, 104° |
|                                                    | Diameter                     |                                    | 20 IN.                     |
|                                                    | Ratio-fan to crankshaft rev. |                                    | .97:1                      |
|                                                    | Fan cutout type              |                                    | NOT OFFERED                |
|                                                    | Bearing type                 |                                    | DOUBLE ROW SEALED BALL     |
| *Drive belts (indicate belt used by letter)        | Fan                          |                                    | SINGLE (A)                 |
|                                                    | Generator                    |                                    | SINGLE (A)                 |
|                                                    | Water Pump                   |                                    | SINGLE (A)                 |
|                                                    | Power Steering               |                                    | SINGLE (B)                 |
|                                                    | Air Conditioning             |                                    | - - -                      |

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| *Drive Belt Dimensions | A     | B     | C |  |
|------------------------|-------|-------|---|--|
| Angle of V             | 36°   | 36°   |   |  |
| Nominal length (SAE)   | 44.18 | 40.62 |   |  |
| Width                  | .380  | .469  |   |  |

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## ELECTRICAL—SUPPLY SYSTEM

|           |                               |                                 |                                 |
|-----------|-------------------------------|---------------------------------|---------------------------------|
| Battery   | Make and Model                |                                 | VARIOUS                         |
|           | Voltage Rtg. & Plates/cell    |                                 | 12V - 11 *                      |
|           | SAE Designation & Amp Hr. Rtg |                                 | 4NA 55 %                        |
|           | Location                      |                                 | ENGINE COMPARTMENT, RIGHT FRONT |
|           | Terminal grounded             |                                 | NEGATIVE                        |
| Generator | Make                          |                                 | FORD                            |
|           | Model                         |                                 | FAS 10000-E                     |
|           | Type                          |                                 | SHUNT                           |
|           | Ratio—Gen. to Cr/s rev.       |                                 | 2.24:1                          |
|           | Gen. cut-in—engine rpm        |                                 | 558                             |
| Regulator | Make                          |                                 | FORD OR BOSCH                   |
|           | Model                         |                                 | 2900424 OR 2700015              |
|           | Type                          |                                 | 3 COIL                          |
|           | Cutout relay                  | Closing voltage @ generator rpm | 12.0 - 12.8 @ 1300 RPM          |
|           |                               | Reverse current to open         | 2 ÷ 6 AMPS                      |
|           | Regu-lated                    | Voltage                         | 14.6 - 15.4                     |
|           |                               | Current                         | 28 - 32                         |
|           | Voltage test conditions       | Temperature                     | 75°                             |
|           |                               | Load                            | 5 AMP                           |
|           |                               | Other                           | - - -                           |

## ELECTRICAL—STARTING SYSTEM

|                |                           |                  |                                                                                                                                                                               |
|----------------|---------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Starting motor | Make                      |                  | FORD                                                                                                                                                                          |
|                | Model                     |                  | FAR - 11001 - A                                                                                                                                                               |
|                | Rotation (drive end view) |                  | CLOCKWISE                                                                                                                                                                     |
|                | Engine cranking speed     |                  | 150-180 RPM                                                                                                                                                                   |
|                | Test conditions           |                  | 85°                                                                                                                                                                           |
|                | Lock test                 | Amps             | 550 MAXIMUM                                                                                                                                                                   |
|                |                           | Volts            | 5.0                                                                                                                                                                           |
|                |                           | Torque (lb. ft.) | 15.5 MINIMUM                                                                                                                                                                  |
|                | No load test              | Amps             | 85                                                                                                                                                                            |
|                |                           | Volts            | 12                                                                                                                                                                            |
|                |                           | RPM (min.)       | 4500                                                                                                                                                                          |
| Motor control  | Switch (solenoid, manual) |                  | SOLENOID                                                                                                                                                                      |
|                | Starting procedure        |                  | WITH MANUAL AND AUTOMATIC TRANSMISSION - TURN IGNITION KEY TO RIGHT BEYOND "ON" POSITION. WITH AUTOMATIC TRANSMISSION, GEAR SELECTOR MUST BE IN "PARK" OR "NEUTRAL" POSITION. |

\* USED WITH STANDARD AND OVERDRIVE TRANSMISSIONS ONLY  
 12V-12 BATTERY USED WITH AUTOMATIC TRANSMISSION.  
 % 12V-12 AMPERE RATING - 65 AH.

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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 | 146 *                |
| Flywheel tooth face width |                             |          | .375                 |

## ELECTRICAL—IGNITION SYSTEM

|             |                                             |                                            |                                     |
|-------------|---------------------------------------------|--------------------------------------------|-------------------------------------|
| Coil        | Make                                        |                                            | FORD                                |
|             | Model                                       |                                            |                                     |
|             | Amps                                        | Engine stopped                             | 4.5                                 |
|             |                                             | Engine idling                              | 2.5                                 |
| Distributor | Make                                        |                                            | FORD                                |
|             | Model                                       |                                            | FEW 12127-F                         |
|             | Spark adv. centrifugal (crankshaft degrees) | Start ( <del>apm</del> ) (@ ENGINE RPM)    | 4° @ 1100                           |
|             |                                             | Intermediate points <del>@ rpm</del>       | 14° @ 1600                          |
|             |                                             | Max. <del>@ rpm</del>                      | 26.5° @ 4000                        |
|             | Spark adv. vacuum (crankshaft degrees)      | Start (in. Hg)                             | 0" @ 1"                             |
|             |                                             | Intermediate points, <del>deg.</del> @ rpm | 12° (IN. HG.)                       |
|             |                                             | Max. <del>@ rpm</del>                      | 18° @ 14" (IN. HG.)                 |
|             | Breaker gap (in.)                           |                                            | .014 - .016                         |
|             | Cam angle (deg.)                            |                                            | 26° - 28.5°                         |
| Timing      | Breaker arm tension (oz.)                   |                                            | 17 - 20                             |
|             | Crankshaft deg. @ rpm.                      |                                            | 3° BTDC                             |
|             | Mark location                               |                                            | VIBRATION DAMPER                    |
|             | Cylinder numbering system (see page 2)      |                                            | 5-6-7-8 LEFT                        |
|             |                                             |                                            | 1-2-3-4 RIGHT                       |
| Spark Plug  | Firing order (see page 2)                   |                                            | 1-5-4-8-6-3-7-2                     |
|             | Make and model                              |                                            | CHAMPION F-14-Y                     |
|             | Thread (mm)                                 |                                            | 18 MM                               |
|             | Tightening torque (lb. ft.)                 |                                            | 20-30 (METAL-TO-METAL - NO GASKETS) |
| Cable       | Gap                                         |                                            | .032 - .036                         |
|             | Conductor type                              |                                            | STRANDED STEEL WIRE                 |
|             | Insulation type                             |                                            | NEOPRENE SHEATH - MOISTURE PROOFED  |
|             | Spark plug protector                        |                                            | NEOPRENE BOOT                       |

## ELECTRICAL—SUPPRESSION

|             |                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | VOLTAGE REGULATOR - CONDENSER<br>FRONT WHEELS - STATIC COLLECTORS<br>IGNITION COIL TO DISTRIBUTOR - RESISTANCE WIRE<br>GENERATOR - CONDENSER<br>DISTRIBUTOR TO SPARK PLUGS - RESISTANCE CORE HIGH-TENSION CABLE |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* 148 WITH AUTOMATIC TRANSMISSION

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## ELECTRICAL—INSTRUMENTS AND SWITCHES

|                             |                                                     |                                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Speed-ometer                | Make                                                | KING - SEELEY                                                                                                                                                                                                                               |
|                             | Trip odometer (yes, no)                             | NO                                                                                                                                                                                                                                          |
| Charge indicator-type       |                                                     | LAMP                                                                                                                                                                                                                                        |
| Temperature indicator-type  |                                                     | BI - METAL GAGE                                                                                                                                                                                                                             |
| Oil pressure indicator-type |                                                     | LAMP                                                                                                                                                                                                                                        |
| Fuel indicator-type         |                                                     | BI - METAL GAGE                                                                                                                                                                                                                             |
| Other                       |                                                     | TURN SIGNAL LAMP                                                                                                                                                                                                                            |
| Ignition switch             | Identify positions in order and circuits controlled | VERTICAL: "OFF"<br>LEFT SIDE: "ACC" ON<br>RIGHT SIDE: "IGN" ON<br>EXTREME RIGHT: "START"<br>(AUTOMATIC TRANSMISSION STARTS IN EITHER "P" (PARK) OR "N" (NEUTRAL)                                                                            |
|                             | Provision for illumination                          | NONE                                                                                                                                                                                                                                        |
|                             | Location                                            | RIGHT OF STEERING COLUMN                                                                                                                                                                                                                    |
|                             |                                                     |                                                                                                                                                                                                                                             |
| Main light-ing switch       | Identify positions and lights controlled            | 1st. PULL POSITION: PARK-TAIL-INSTR. PANEL AND LICENSE<br>2nd. PULL POSITION: HEAD-TAIL-INSTR. PANEL AND LICENSE<br>TURN CLOCKWISE TO DIM INSTRUMENT PANEL LIGHTS<br>TURN FULL COUNTER CLOCKWISE FOR INTERIOR LIGHTS                        |
| Other light switches        | Locations and lamps controlled                      | FRONT DOOR PILLARS: INTERIOR LIGHTS<br>STEERING COLUMN: TURN SIGNALS<br>TRANSMISSION CONTROL: BACK-UP LIGHTS<br>FRONT TOE BOARD: HEADLAMP HIGH/LOW BEAM CONTROL<br>PARKING BRAKE BRACKET: BRAKE WARNING LIGHT<br>GLOVE BOX: GLOVE BOX LIGHT |
| Other switches              | Locations and de-vices controlled                   | INSTRUMENT PANEL: RADIO-HEATER-ELECTRIC ANTENNA<br>FRONT TOE BOARD: OVERDRIVE KICKDOWN<br>BRAKE MASTER CYLINDER: STOP LIGHT                                                                                                                 |
| Windshield wiper            | Make                                                | TRICO                                                                                                                                                                                                                                       |
|                             | Type                                                | VACUUM                                                                                                                                                                                                                                      |
|                             | Vacuum booster provision                            | STANDARD EQUIPMENT                                                                                                                                                                                                                          |
|                             | Washer provision                                    | ALL                                                                                                                                                                                                                                         |
| Horn                        | Type                                                | AIR-ELECTRIC                                                                                                                                                                                                                                |
|                             | Number used                                         | ONE                                                                                                                                                                                                                                         |
|                             | Amp draw (each)                                     | 10 MAXIMUM                                                                                                                                                                                                                                  |

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 MODEL 64B 58C

## ELECTRICAL—LAMP BULBS

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

|                                  |                                |
|----------------------------------|--------------------------------|
| Headlamps & arrangement          | HORIZONTAL DUAL 2-4001, 2-4002 |
| Headlamp beam indicator          | 1-1445                         |
| Parking light                    | 2-1034                         |
| Tail light                       | 2-1034                         |
| Stop light                       | SAME AS TAIL LIGHT             |
| Direction signal                 | Front SAME AS PARKING LIGHT    |
|                                  | Rear SAME AS TAIL LIGHT        |
|                                  | Indicator 2-1445               |
| License plate light              | 1-67                           |
| Instrument light                 | 7-57                           |
| Ignition lock light              | NONE                           |
| Back up light                    | 2-1141                         |
| Dome light                       | 1-1003                         |
| Clock light                      | SAME AS INSTRUMENT LIGHT       |
| Radio light                      | SAME AS INSTRUMENT LIGHT       |
| Glove compartment light          | 1-57                           |
| OIL PRESSURE INDICATOR LIGHT     | 2-57                           |
| GENERATOR CHARGE INDICATOR LIGHT | 2-57                           |
|                                  |                                |
|                                  |                                |
|                                  |                                |
|                                  |                                |
|                                  |                                |
|                                  |                                |
|                                  |                                |

## 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 lights SFE-10 (a), Direction indicator same as (a).

|                         |                                                                       |
|-------------------------|-----------------------------------------------------------------------|
| Headlamp                | HIGH BEAM 18 CB - LOW BEAM 12 CB (A)                                  |
| Headlamp beam indicator | SAME AS (A)                                                           |
| Parking light           | 12 CB (B)                                                             |
| Tail light              | SAME AS (B)                                                           |
| Stop light              | SAME AS (B)                                                           |
| Direction indicator     | S.F.E. 7.5 (C)                                                        |
| License plate light     | SAME AS (B)                                                           |
| Instrument light        | SAME AS (B)                                                           |
| Ignition light          | SAME AS (B)                                                           |
| Back up light           | SAME AS (C)                                                           |
| Dome light              | S.F.E. 7.5 (D)                                                        |
| Clock                   | IAG-1                                                                 |
| Clock light             | SAME AS (B)                                                           |
| Radio                   | S.F.E. 5                                                              |
| Glove compartment light | SAME AS (D)                                                           |
|                         | CIGAR LIGHTER, 3AG15; PARKING BRAKE WARNING, S.F.E. 7.5;              |
|                         | HEATER, BLOWER AND DEFROSTER, S.F.E. 14; ELECTRIC ANTENNA, S.F.E. 14; |
|                         | OVERDRIVE, 3AG15;                                                     |
|                         |                                                                       |
|                         |                                                                       |
|                         |                                                                       |
|                         |                                                                       |

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## DRIVE UNITS—CLUTCH (Manual Transmission)

|                             |                                     |                                     |
|-----------------------------|-------------------------------------|-------------------------------------|
| Make & type                 | BORG AND BECK                       |                                     |
| Type pressure plate springs | SPRING STEEL                        |                                     |
| Total plate pressure (lb.)  | 1840                                |                                     |
| No. of clutch driven discs  | ONE                                 |                                     |
| Clutch facing               | Material                            | WOVEN ASBESTOS                      |
|                             | Outside & inside dia.               | 10.50 X 6.5                         |
|                             | Total eff. area (sq.in.)            | 106.8                               |
|                             | Thickness                           | 0.125                               |
|                             | Engagement cushioning method        | BORGLITE DISC WITH VIBRATION DAMPER |
| Release bearing             | Type & method of lubrication        | SEALED BALL THRUST - PREPACKED      |
| Torsional damping           | Methods: springs, friction material | SPRINGS                             |

## DRIVE UNITS—TRANSMISSIONS

|                                      |          |
|--------------------------------------|----------|
| Manual (std. or opt.)                | STANDARD |
| Manual with overdrive (std. or opt.) | OPTIONAL |
| Automatic (std. or opt.)             | OPTIONAL |

## DRIVE UNITS—MANUAL TRANSMISSION

|                                    |                      |                                |
|------------------------------------|----------------------|--------------------------------|
| Number of forward speeds           |                      | THREE                          |
| Transmission ratios                | In first             | 2.37:1                         |
|                                    | In second            | 1.51:1                         |
|                                    | In third             | 1.00:1                         |
|                                    | In fourth            | - - -                          |
|                                    | In reverse           | 2.81:1                         |
| Synchronous meshing, specify gears |                      | SECOND AND THIRD               |
| Lubricant                          | Capacity (pt.)       | 3.5                            |
|                                    | Type recommended     | MILD EXTREME PRESSURE GEAR OIL |
|                                    | SAE viscosity number | Summer SAE 80                  |
|                                    |                      | Winter SAE 80                  |
|                                    |                      | Extreme cold SAE 80            |

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## DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

|           |                                         |                           |                       |
|-----------|-----------------------------------------|---------------------------|-----------------------|
| Overdrive | Type (planetary or other)               |                           | PLANETARY             |
|           | Manual lockout (yes, no)                |                           | NO                    |
|           | Downshift accelerator control (yes, no) |                           | YES                   |
|           | Minimum cut-in speed                    |                           | 27.2                  |
|           | Gear ratio                              |                           | .722:1                |
|           | Lu-<br>bri-<br>cant                     | Capacity (Overdrive only) | .5 PT.                |
|           |                                         | Separate filler (yes, no) | NO                    |
|           |                                         | Type recommended          | MILD EXTREME PRESSURE |
|           |                                         | SAE viscosity number      | SAE 80                |
|           |                                         | Summer                    | SAE 80                |
|           |                                         | Winter                    | SAE 80                |
|           |                                         | Ext. cold                 | SAE 80                |

## DRIVE UNITS—AUTOMATIC TRANSMISSION

|                                                                                               |                                      |                                                    |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------|
| Trade name                                                                                    |                                      | MERC-O-MATIC                                       |
| Type describe                                                                                 |                                      | TORQUE CONVERTER WITH PLANETARY GEAR               |
| Method of Selection<br>(Lever, Push Button or other)                                          |                                      | LEVER                                              |
| Selector Pattern                                                                              |                                      | P-R-N-Dr-Lo                                        |
| List gear ratios Selector Pattern and<br>indicate which are used in each<br>selector position |                                      | DR: 1.47:1 AND 1.00:1<br>LO: 2.40:1<br>REV: 2.00:1 |
| Max. upshift speeds—drive range                                                               |                                      | 63-76                                              |
| Max. kickdown speeds—drive range                                                              |                                      | 60-72                                              |
| Torque<br>convertor                                                                           | Number of elements                   | 3                                                  |
|                                                                                               | Max. ratio at stall<br>at engine rpm | 2.1 @ 1430 - 1630                                  |
|                                                                                               | Type of cooling (air, water)         | WATER                                              |
| Lubricant                                                                                     | Capacity—refill (pt.)                | 20                                                 |
|                                                                                               | Type recommended                     | TYPE A                                             |
| Special transmission<br>features                                                              |                                      | NONE                                               |

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## DRIVE UNITS—PROPELLER SHAFT

|                                                     |                                        |                             |                 |
|-----------------------------------------------------|----------------------------------------|-----------------------------|-----------------|
| Number used                                         |                                        | ONE                         |                 |
| Type (exposed, torque tube)                         |                                        | EXPOSED                     |                 |
| Outer diameter x length* x wall thickness           | Manual transmission                    | 2.75 X .065 X 60.73         |                 |
|                                                     | Overdrive transmission                 | SAME                        |                 |
|                                                     | Automatic transmission                 | SAME                        |                 |
| Inter-mediate bearing                               | Type (plain, anti-friction)            | NONE                        |                 |
|                                                     | Lubrication (fitting, prepack)         | NONE                        |                 |
| Universal joints                                    | Make                                   | SPICER                      |                 |
|                                                     | Number used                            | TWO                         |                 |
|                                                     | Type (ball and trunnion, cross, other) | CROSS                       |                 |
|                                                     | Bearing                                | Type (plain, anti-friction) | NEEDLE BEARINGS |
|                                                     |                                        | Lubric. (fitting, prepack)  | FITTING         |
| Drive taken through (torque tube or arms, springs)  |                                        | REAR SPRINGS                |                 |
| Torque taken through (torque tube or arms, springs) |                                        | REAR SPRINGS                |                 |

## DRIVE UNITS—REAR AXLE

|                                                 |                        |              |                                                             |
|-------------------------------------------------|------------------------|--------------|-------------------------------------------------------------|
| Description - (incl. limited slip differential) |                        |              | SEMI-FLOATING, HYPOID GEARS<br>WITH STRADDLE MOUNTED PINION |
| Drive Pinion Offset                             |                        |              | 2.25                                                        |
| No. of differential pinions                     |                        |              | TWO                                                         |
| Gear ratio and No. of teeth                     | Automatic transmission |              | 3.10:1 (31-10)                                              |
|                                                 | Overdrive trans.       |              | 3.56:1 (32-9)                                               |
|                                                 | Manual transmission    |              | 3.56:1 (32-9)                                               |
| Ring gear pitch diameter & O.D.                 |                        |              | 8.75                                                        |
| Pinion adjustment (shim, other)                 |                        |              | SHIM                                                        |
| Pinion bearing adj. (shim, other)               |                        |              | SHIM                                                        |
| Wheel bearing type                              |                        |              | SINGLE ROW - DOUBLE SEALED BALL                             |
| Lubricant                                       | Capacity (pt.)         |              | 5                                                           |
|                                                 | Type recommended       |              | EXTREME PRESSURE GEAR                                       |
|                                                 | SAE viscosity number   | Summer       | SAE 90                                                      |
|                                                 |                        | Winter       | SAE 90                                                      |
|                                                 |                        | Extreme cold | SAE 80                                                      |

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

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## DRIVE UNITS—WHEELS

|                            |                     |                     |
|----------------------------|---------------------|---------------------|
| Type & material            |                     | PRESSED STEEL DISC. |
| Rim (size and flange type) |                     | 14 X 6 JK           |
| Attachment                 | Type (bolt or stud) | STUD                |
|                            | Circle diameter     | 5                   |
|                            | Number and size     | 5 - .50             |

## DRIVE UNITS—TIRES

|                          |          |                                |
|--------------------------|----------|--------------------------------|
| Size (L-102)             | Standard | 7.50 X 14 4-PLY                |
| & ply rating             | Optional | 4-PLY WSW AND 6-PLY BSW OR WSW |
| Type tires - nylon, etc. |          | RAYON-STANDARD; NYLON-OPTIONAL |
| Rev./mile at 30 mph      |          | 777                            |
| Inflation press.(cold)   | Front    | 24 PSI                         |
|                          | Rear     | 24 PSI                         |

## BRAKES—SERVICE

|                                     |                      |                                   |                                            |                                             |       |  |  |
|-------------------------------------|----------------------|-----------------------------------|--------------------------------------------|---------------------------------------------|-------|--|--|
| Type                                |                      |                                   |                                            | HYDRAULIC-SINGLE ANCHOR -INTERNAL EXPANDING |       |  |  |
| Power brake type                    |                      |                                   |                                            | VACUUM-OPTIONAL                             |       |  |  |
| Effective area (sq. in.)            |                      |                                   |                                            | 162.7 (EFFECTIVE AREA); 190.9 (TOTAL AREA)  |       |  |  |
| Percent brake effectiveness-front   |                      |                                   |                                            | 60%                                         |       |  |  |
| Drum                                | Diameter             | Front                             |                                            | 11                                          |       |  |  |
|                                     |                      | Rear                              |                                            | 11                                          |       |  |  |
|                                     | Type and material    |                                   | PRESSED STEEL DISC FUSED TO CAST IRON DRUM |                                             |       |  |  |
| Brake lining                        | Bonded or riveted    |                                   |                                            | RIVETED                                     |       |  |  |
|                                     | Front Shoe           | Material                          |                                            | MOLDED ASBESTOS                             |       |  |  |
|                                     |                      | Size (length x width x thickness) | Front wheel                                | 9.28 X 2.50 X 0.187                         |       |  |  |
|                                     |                      |                                   | Rear wheel                                 | 9.28 X 2.00 X 0.187                         |       |  |  |
|                                     |                      | Segments per shoe                 |                                            | ONE                                         |       |  |  |
|                                     | Rear Shoe            | Material                          |                                            | MOLDED ASBESTOS                             |       |  |  |
|                                     |                      | Size (length x width x thickness) | Front wheel                                | 11.93 X 2.50 X 0.187                        |       |  |  |
|                                     |                      |                                   | Rear wheel                                 | 11.93 X 2.00 X 0.187                        |       |  |  |
|                                     |                      | Segments per shoe                 |                                            | ONE                                         |       |  |  |
|                                     | Wheel cyl-inder bore | Front                             |                                            |                                             | 1.125 |  |  |
| Rear                                |                      |                                   | .906                                       |                                             |       |  |  |
| Master cylinder bore                |                      |                                   |                                            | MECHANICAL-1.00 POWER- .656                 |       |  |  |
| Available pedal travel              |                      |                                   |                                            | MECHANICAL-6.5 POWER- 4.75                  |       |  |  |
| Line pressure at 100 lb. pedal load |                      |                                   |                                            | MECHANICAL-700 PSI POWER- 1050 PSI          |       |  |  |
| Shoe clearance adjustment           |                      |                                   |                                            | .010 - .013                                 |       |  |  |

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## BRAKES—PARKING

|                                 |                                                |       |
|---------------------------------|------------------------------------------------|-------|
| Type of control                 | FOOT PEDAL WITH HAND OPERATED PUSH BAR RELEASE |       |
| Location of control             | SUSPENDED TO THE LEFT OF THE STEERING COLUMN   |       |
| Operates on                     | CABLE CONTROL TO REAR BRAKE SHOES              |       |
| If separate from service brakes | Type (internal or external)                    | - - - |
|                                 | Drum diameter                                  | - - - |
|                                 | Lining size (length x width x thickness)       | - - - |

## FRAME or UNITIZED CONSTRUCTION

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Type and description | LADDER TYPE WITH BOX SECTION<br>SIDE RAILS AND FIVE CROSSMEMBERS |
|----------------------|------------------------------------------------------------------|

## SUSPENSION—GENERAL

|                                    |                                                    |                         |
|------------------------------------|----------------------------------------------------|-------------------------|
| Provision for car leveling         | SHIMS FOR FRONT SUSPENSION                         |                         |
| Provision for brake dip control    | NONE                                               |                         |
| Provision for acc. squat control   | NONE                                               |                         |
| Special provisions for car jacking | JACK POSITIONING SLOTS IN BOTTOM FLANGE OF BUMPERS |                         |
| Shock absorber front & rear        | Type                                               | TRIPLE ACTION HYDRAULIC |
|                                    | Make                                               | FORD OR GABRIEL         |
|                                    | Piston dia.                                        | 1.00 IN. FRONT AND REAR |
| Other special features             | - - -                                              |                         |

## SUSPENSION—FRONT

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Type and description | INDEPENDENT BALL JOINT - COIL SPRING SYSTEM<br>WITH TWO UNEQUAL LENGTH TRANSVERSE ARMS |
|----------------------|----------------------------------------------------------------------------------------|

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## SUSPENSION FRONT (cont.)

|            |                                                     |                                  |  |
|------------|-----------------------------------------------------|----------------------------------|--|
| Spring     | Type                                                | COIL                             |  |
|            | Material                                            | SAE 9260 OR 5160 STEEL           |  |
|            | Size (coil design height & I.D.; bar length x dia.) | 10.50 X 4.00                     |  |
|            | Spring rate (lb. per in.)                           | 330                              |  |
|            | Rate at wheel (lb. per in.)                         | 90                               |  |
|            | Design load (lb. @ design height)                   | 2360                             |  |
| Stabilizer | Type (link, linkless, frameless)                    | LINKLESS - MOUNTED TO LOWER ARMS |  |
|            | Material & bar diameter                             | SAE 1090 STEEL; .84 IN. DIAMETER |  |

## STEERING

|                                              |                      |                        |                    |                             |  |
|----------------------------------------------|----------------------|------------------------|--------------------|-----------------------------|--|
| Mechanical (std., opt., NA)                  |                      |                        |                    | STANDARD                    |  |
| Power (std., opt., NA)                       |                      |                        |                    | OPTIONAL                    |  |
| Wheel diameter                               |                      |                        |                    | 17                          |  |
| Turning diameter                             | Outside front        | Wall to wall (l. & r.) |                    | 45.22                       |  |
|                                              |                      | Curb to curb (l. & r.) |                    | 42.54                       |  |
|                                              | Inside rear          | Wall to wall (l. & r.) |                    | 25.34                       |  |
|                                              |                      | Curb to curb (l. & r.) |                    | 25.91                       |  |
| Outside wheel angle with inside wheel at 20° |                      |                        |                    | 24° 45'                     |  |
| Mechanical                                   | Gear                 | Type                   |                    | RECIRCULATING BALL AND RACK |  |
|                                              |                      | Make                   |                    | FORD                        |  |
|                                              |                      | Ratios                 | Gear               | 23.6:1                      |  |
|                                              |                      |                        | Overall            | 31.8:1                      |  |
|                                              | No. wheel turns      |                        | 5.5                |                             |  |
| 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   |                        | 4.5                |                             |  |
|                                              | Linkage              | Type                   |                    | PARALLELOGRAM               |  |
| Location (front or rear of wheels, other)    |                      | REAR OF FRONT WHEELS   |                    |                             |  |
| Drag link (trans. or longit.)                |                      | TRANSVERSE             |                    |                             |  |
| Tie rods (one or two)                        |                      | TWO                    |                    |                             |  |

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## STEERING(cont.)

|                                       |                               |               |                             |
|---------------------------------------|-------------------------------|---------------|-----------------------------|
| Steering Axis                         | Inclination at camber (deg.)  |               | 7° 0'                       |
|                                       | Bearings (type)               | Upper         | BALL JOINT                  |
|                                       |                               | Lower         | BALL JOINT                  |
|                                       |                               | Thrust        | BALL BEARING IN LOWER JOINT |
| Wheel alignment (range and preferred) | Caster (deg.)                 |               | -0°30' TO -2°               |
|                                       | Camber (deg.)                 |               | -0°10' TO -0°35'            |
|                                       | Toe-in (outside tread-inches) |               | 1/16 TO 3/16                |
| Steering spindle & joint type         |                               |               | BALL JOINT                  |
| Wheel spindle                         | Diameter                      | Inner bearing | 1.2493 - 1.2498             |
|                                       |                               | Outer bearing | 0.7493 - 0.7498             |
|                                       | Thread size                   |               | 3/4 - 16                    |
|                                       | Bearing type                  |               | TAPERED ROLLER              |

## SUSPENSION—REAR

|                                             |                                                                       |               |                           |                                       |  |
|---------------------------------------------|-----------------------------------------------------------------------|---------------|---------------------------|---------------------------------------|--|
| Type and description                        |                                                                       |               | LONGITUDINAL LEAF SPRINGS |                                       |  |
| Drive and torq. taken through (see page 14) |                                                                       |               | REAR SPRINGS              |                                       |  |
| Spring                                      | Type                                                                  |               | SEMI-ELLIPTIC             |                                       |  |
|                                             | Material                                                              |               | SAE 5147-5155 OR 5160     |                                       |  |
|                                             | Size (length x width, coil design height and I.D.; bar length & dia.) |               | 55 X 2                    |                                       |  |
|                                             | Spring rate (lb. per in.)                                             |               | 95                        |                                       |  |
|                                             | Rate at wheel (lb. per in.)                                           |               | 111                       |                                       |  |
|                                             | Design load (lb. at design height)                                    |               | 950                       |                                       |  |
|                                             | Mounting insulation type                                              |               | SILENT-BLOC RUBBER        |                                       |  |
|                                             | If leaf                                                               | No. of leaves |                           | FIVE                                  |  |
|                                             |                                                                       | Inserts       | Type and size             | TIP LINERS, 2 X 6 IN., 4 PER SPRING * |  |
|                                             |                                                                       |               | Material                  | WAX IMPREGNATED COTTON                |  |
| Shackle (comp. or tens.)                    |                                                                       | COMPRESSION   |                           |                                       |  |
| Stabilizer                                  | Type (link, linkless, frameless)                                      |               | NONE                      |                                       |  |
|                                             | Material                                                              |               | - - -                     |                                       |  |
| Track bar type                              |                                                                       |               | NONE                      |                                       |  |

\* ALSO INCLUDES ONE IMPREGNATED PAPER STRIP BETWEEN NO. 3 AND NO. 4 LEAF IN EACH SPRING

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MAKE OF CAR MERCURY MODEL YEAR 1958 DATE: ISSUED 2-19-58 REVISED \_\_\_\_\_

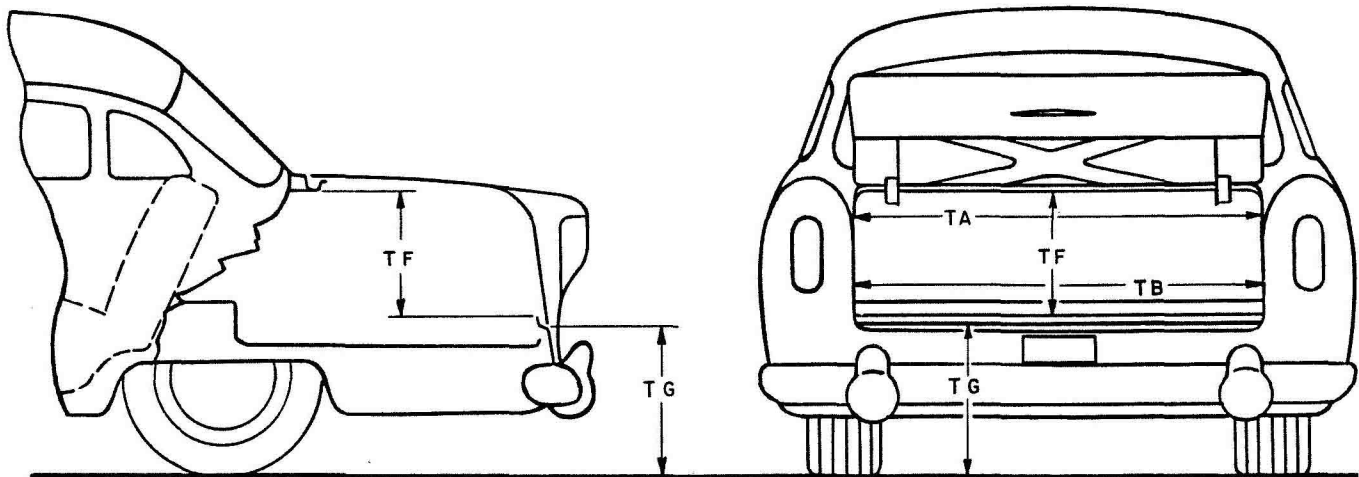
## BODY—GENERAL DEFINITIONS

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

1. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front and rear seat "B" points are located on seat back 15" from center of body at height of horizontal tangent to top of seat cushion.
3. Front seat is in the full down and normal rearmost position.
4. Loaded position—5 passenger, front 300 lb., rear 450 lb.; includes spare wheel, tire and tools, and full complement of gas, oil, water, and tires to recommended pressure, etc.
5. C/L (centerline).
6. D. L. O. (daylight opening, exposed glass dimension - pages 21, 23 & 25).
7. Ramp breakover angle (page 21) is the supplement of the included ramp angle ( $180^\circ$  minus the included ramp angle) over which a car can pass without hanging up.

| MODEL | 64B | 58C |
|-------|-----|-----|
|-------|-----|-----|

## BODY—TRUNK DIMENSIONS



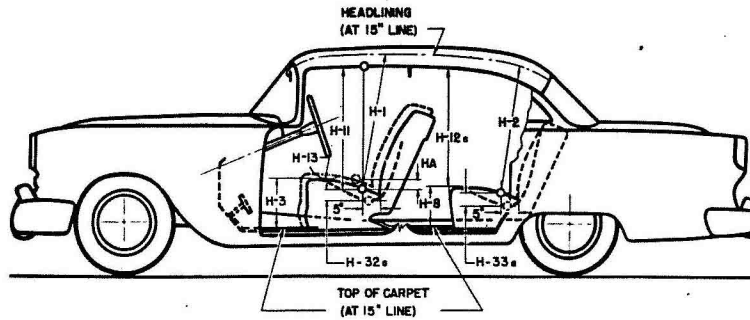
|                                                                                                        |                             |
|--------------------------------------------------------------------------------------------------------|-----------------------------|
| Usable trunk luggage capacity (see Section H1 of SAE Automotive Drafting Standards)                    |                             |
| TA—Width across the top                                                                                | 63.26                       |
| TB—Width across the bottom                                                                             | 59                          |
| TF—Vertical dimension at C/L from bottom to top of opening.                                            | 8.8                         |
| TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded) | 27.7                        |
| Position of spare tire stowage                                                                         | VERTICAL<br>RIGHT-HAND SIDE |
| Method of holding lid open                                                                             | COUNTERBALANCED SPRINGS     |

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 MODEL \_\_\_\_\_ 64B 58C

## BODY—HEIGHT DIMENSIONS--INTERIOR



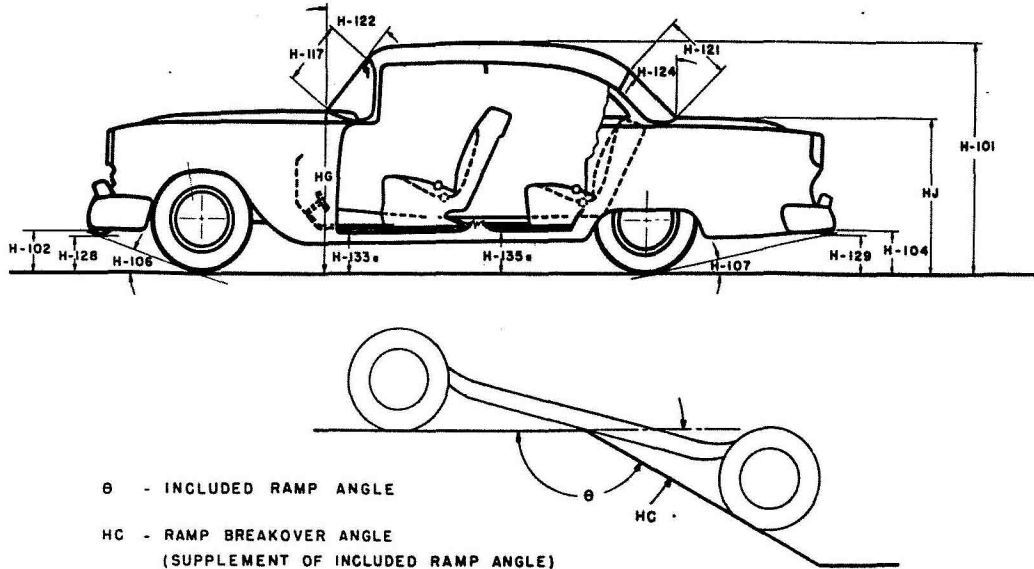
|                                                                                                                          |      |
|--------------------------------------------------------------------------------------------------------------------------|------|
| H1. Front headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19) | 34   |
| H2. Rear headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line.                                    | 33.2 |
| H3. Front cushion height above low point on floor carpet on 15" line (front edge of cushion).                            | 10.5 |
| H8. Rear cushion height above low point on floor carpet on 15" line (front edge of cushion).                             | 14.5 |
| H11. Entrance—front—cushion free "A" point to bottom windcord vertical.                                                  | 28.8 |
| H12a. Entrance — rear — top of cushion at vertical tangent to front of rear seat, to bottom of windcord in rear.         | 25.8 |
| H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance).                            | 5.5  |
| H-A. Front seat maximum vertical rise at free "A" point.                                                                 | .43  |
| H-F. Front seat maximum vertical rise of free "A" point with multiple-position seat.                                     | 2.09 |
| H32a. Front seat depressed depth — vertical dimension from free "A" point to depressed "A" point.                        | 5.36 |
| H33a. Rear seat depressed depth — vertical dimension from free "A" point to depressed "A" point.                         | 5.60 |

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 MODEL \_\_\_\_\_ 64B 58C

## BODY—HEIGHT DIMENSIONS—EXTERIOR



$\theta$  - INCLUDED RAMP ANGLE  
 HC - RAMP BREAKOVER ANGLE  
 (SUPPLEMENT OF INCLUDED RAMP ANGLE)

|                                                                                                |                                   |
|------------------------------------------------------------------------------------------------|-----------------------------------|
| H101. Overall height - loaded.                                                                 | 56.6                              |
| HB. Overall height - curb weight.                                                              | 58.2                              |
| H102. Front bumper bottom to ground at normal section.                                         | 11                                |
| H104. Rear bumper bottom to ground at normal section.                                          | 10.8                              |
| H106. Angle of appr.-fr. tire static loaded rad. to interfering pt. on fr. bumper, gd., other. | 23°15'                            |
| H107. Angle of dep.-fr. tire static loaded rad. to interfering pt. on rr. bumper, gd., other.  | 11°                               |
| HC. Ramp breakover angle.*                                                                     | 12°10'                            |
| H117. Windshield DLO-slant height.                                                             | 17.6                              |
| H121. Backlight DLO*-max., slant height.                                                       | 22.5                              |
| H122. Windshield slope angle to vertical line on car axis.                                     | 43°30'                            |
| H124. Backlight slope angle to vertical line on car axis.                                      | 53°30'                            |
| H128. Ground to bottom of front bumper guard.                                                  | SEE H 102 - NO BUMPER GUARDS USED |
| H129. Ground to bottom of rear bumper guard.                                                   | SEE H 102 - NO BUMPER GUARDS USED |
| H133a. Bottom of front door to ground, min. dimension - car loaded.                            | 10.8                              |
| H135a. Bottom of rear door to ground, min. dimension - car loaded.                             | 10.6                              |
| HD. Min. road clear. (5 pass. load) & loc.                                                     | 5.9 (FRAME)                       |
| HE. Min. road clearance at rear axle.                                                          | 7.3                               |
| HG. Hood at rr. to grd.-vert. dim. excl. molding, fr. hood opening line at cowl (curb wt.)     | 40.26                             |
| HH. Max. ht., fr. grd. frt. of windshield (curb wt.)                                           | 40.67                             |
| HJ. Max. ht. fr. grd. back of r. window (curb wt.)                                             | 38.25                             |

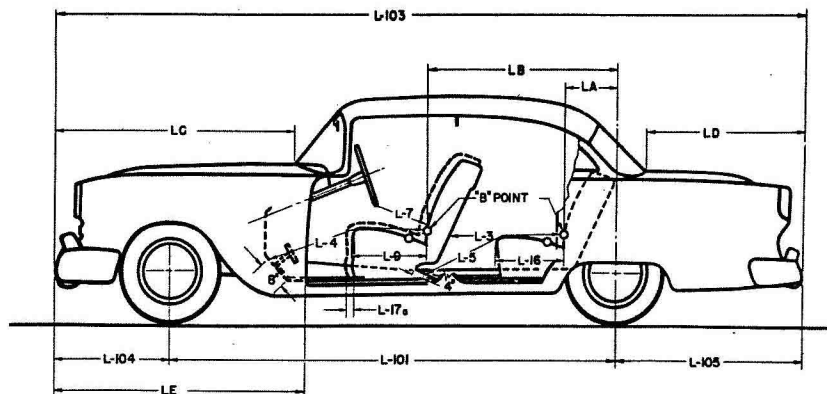
\* See Notes, page 19.

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 MODEL \_\_\_\_\_ 64B 58C

## BODY—LENGTH DIMENSIONS



|          |                                                                                |       |
|----------|--------------------------------------------------------------------------------|-------|
| Interior | * L3. Rear compartment of front seat back to rear seat back.                   | 31.5  |
|          | * L4. Leg room—front—ball of foot to top of seat to seat back--15" line.       | 44.1  |
|          | * L5. Leg room—rear—from ball of foot to top of seat cushion and to seat back. | 43.4  |
|          | L7. Steering wheel clearance to seat back taken on arc.                        | 14.2  |
|          | * L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).    | 18.4  |
|          | * L16. Depth of rear seat (front edge to seat back).                           | 18.6  |
|          | L17a. Total adjustment of front seat at front lower seat frame.                | 5.0   |
|          | LA. Rear seat "B" point to center line of rear axle.                           | 17.0  |
|          | LB. Front seat "B" point to center line of rear axle.                          | 55.4  |
|          | LC. Front of car to base of windshield.                                        | 60.7  |
| Exterior | LD. Rear of car to base of rear window or upper structure.                     | 45.9  |
|          | LE. Front of car to front edge of front door.                                  | 66.9  |
|          | L101. Wheelbase.                                                               | 122   |
|          | L103. Overall length (bumper to bumper inc. guards).                           | 213.2 |
|          | L104. Overhang—front including bumper guards.                                  | 33.7  |
|          | L105. Overhang—rear including bumper guards.                                   | 57.5  |

\* Dimension taken on 15" line—see notes 1 & 2, page 19.

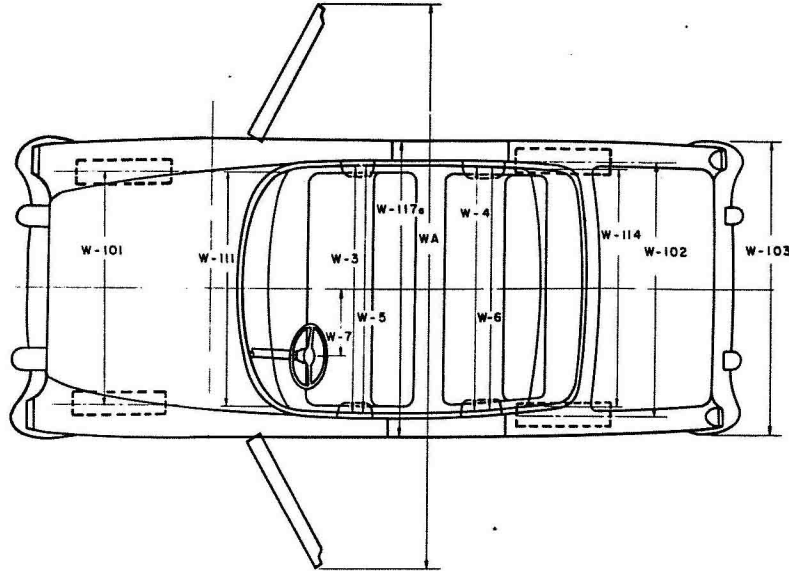
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## BODY—WIDTH DIMENSIONS



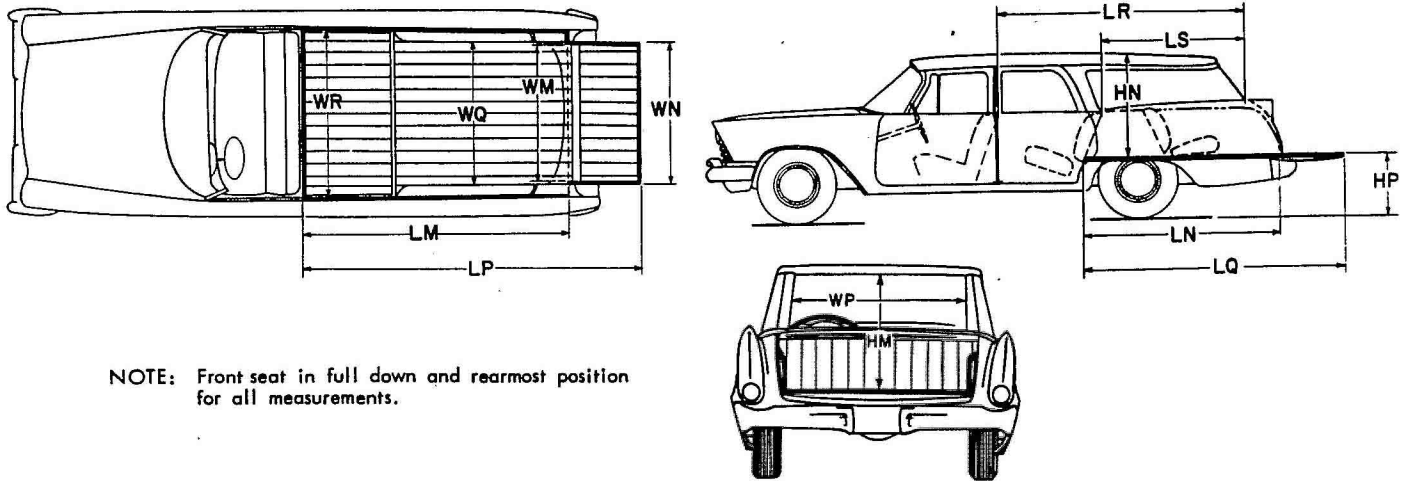
|          |                                                                                                      |       |       |
|----------|------------------------------------------------------------------------------------------------------|-------|-------|
| Interior | W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back. | 60.2  |       |
|          | W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.  | 60.1  | 60.2  |
|          | W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.                            | 61.3  |       |
|          | W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.                             | 55.8  | 62.9  |
|          | W7. Steering wheel center to center of body.                                                         | 15.4  |       |
| Exterior | W101. Front tread at ground.                                                                         | 59.4  |       |
|          | W102. Rear tread at ground.                                                                          | 59.0  |       |
|          | W103. Max. overall width of car including bumpers or mouldings.                                      | 81.1  |       |
|          | WA. Max. overall width of car with doors open.                                                       | 163.1 | 148.5 |
|          | W111. Windshield DLO, max. width.                                                                    | 62.6  |       |
|          | W114. Back window DLO, max. width.                                                                   | 63.4  |       |
|          | W117a. Max. body width at center pillar, less hardware and applied moldings.                         | 74.2  |       |

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 MODEL \_\_\_\_\_

## STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Front seat in full down and rearmost position for all measurements.

|                                                                                      |                |
|--------------------------------------------------------------------------------------|----------------|
| LM Floor length from bottom of front seat to inside of tail gate in raised position. |                |
| LN Floor lgth. from bottom of second seat to inside of tail gate in raised position. |                |
| LP Floor lgth. from bottom of front seat to end of tail gate in lowered position.    |                |
| LQ Floor lgth. from bottom of second seat to end of tail gate - tail gate lowered.   |                |
| HM Maximum hgth. of rear opening - tail gate lowered.                                | NOT APPLICABLE |
| WM Rear end opening width at floor.                                                  |                |
| WN Rear end opening width at top of tail gate.                                       |                |
| WQ Minimum distance between wheelhouses.                                             |                |
| WP Maximum width of rear opening above raised tail gate.                             |                |
| WR Maximum width of cargo space at floor.                                            |                |
| LR Cargo horizontal distance from top rear of front seat back to top of tail gate.   |                |
| LS Cargo horizontal distance from top rear of second seat back to top of tail gate.  |                |
| HN Maximum height of roof above floor at center line of car.                         |                |
| HP Platform height of end of lowered tail gate - curb weight.                        |                |
| Third Seat - facing direction.                                                       |                |

# AMA Specifications –Passenger Car

**MAKE OF CAR** MERCURY **MODEL YEAR** 1958 **DATE: ISSUED** 2-19-58 **REVISED** \_\_\_\_\_

**MODEL** 64B 58C

## BODY—MISCELLANEOUS INFORMATION

|                                                         |             |                                   |
|---------------------------------------------------------|-------------|-----------------------------------|
| Drs. hinged (front, rear)                               | Front doors | FRONT                             |
|                                                         | Rear doors  | FRONT                             |
| Type of finish (lacquer, enamel).                       |             | ENAMEL                            |
| Hood hinge location (front, rear).                      |             | FRONT                             |
| Hood counterbalanced (yes, no).                         |             | YES - TORSION BAR                 |
| Hood release control (internal, external).              |             | INTERNAL                          |
| Vehicle (Serial) No. Location                           |             | LEFT-HAND FRONT DOOR HINGE PILLAR |
| Engine No. location                                     |             | SEE VEHICLE SERIAL NUMBER         |
| Theft protection - type                                 |             | IGNITION KEY START                |
| Vent window control method (crank, friction pivot).     |             | FRICTION PIVOT                    |
| Windshield type (single curved, compound curved, other) |             | SINGLE CURVED                     |
| Rear window type (flat, curved, one piece, three piece) |             | ONE PIECE CURVED                  |
| Side glass type (curved, flat)                          |             | FLAT                              |
| Windshield glass area D.L.O.                            | 1169.5      | 1169.5                            |
| Backlight glass area D.L.O.                             | 1504.1      | 1504.1                            |
| Total glass area D.L.O.                                 | 3993.3      | 3916.5                            |

## BODY—TYPES AND STYLE NAMES —

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

| BODY STYLES: | CODES                  |
|--------------|------------------------|
| SEDAN        | 64B 2 DOOR 6 PASSENGER |
| SEDAN        | 58C 4 DOOR 6 PASSENGER |

## Page 26

### MAJOR OPTIONAL ITEMS - WEIGHTS

[illegible]

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