

AMA Specifications—Passenger Car

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| | | |
|---|---------------------------|---|
| MANUFACTURER OLDSMOBILE | CAR NAME 4-4-2 | |
| MAILING ADDRESS LANSING, MICHIGAN | MODEL YEAR 1968 | ISSUED: 6-1-67 REVISED (●) Sept., 1967 |

NOTES:

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.

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| BODY - TYPES AND STYLE NAMES - | Body type, number of passenger & style names; use manufacturer's code for series & body style. |
|---------------------------------|--|
| 34467 | Convertible |
| 34477 | Club Coupe |
| 34487 | Hardtop Coupe |
| 5 passengers with bucket seats. | |
| 6 passengers with bench seats. | |

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (e)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

| MODEL | SAE Ref. No. | |
|---|--|------------|
| | | 4-4-2 |
| WIDTH | | |
| Track - Front | W101 | 59.0 |
| Track - Rear | W102 | 59.0 |
| Maximum overall car width | W103 | 76.2 |
| Body width at No. 2 pillar | W117 | N.A. |
| LENGTH | | |
| Body "O" to front of dash | L 30 | 0.0 |
| Wheelbase | L101 | 112.0 |
| Overall car length | L103 | 201.6 |
| Overhang - front | L104 | 40.96 |
| Overhang - rear | L105 | 48.56 |
| Body upper structure length | L123 | - - |
| Body "O" line to C of rear wheel | L127 | 95.60 |
| Body "O" line to w/s cowl point | L130 | - - |
| HEIGHT | | |
| Overall height | H101 | 52.8 |
| Cowl height | H114 | - - |
| Deck height | H138 | - - |
| Rocker panel - front | To ground From front wheel C | 3.8 - - |
| Rocker panel - rear | To ground From rear wheel C | 3.3 - - |
| Windshield slope angle | H122 | 53.0 |
| GROUND CLEARANCE | | |
| Bumper to ground - front | H102 | 13.32 |
| Bumper to ground - rear | H104 | 12.90 |
| Angle of approach | H106 | 24° 42' |
| Angle of departure | H107 | 18° 45' |
| Ramp breakover angle | H147 | 12° 30' |
| Min. running clearance (Specify) * | H156 | 5.32 |

* From low point on exhaust pipe to ground.

** Zero to ground 4.6.

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions
(All dimensions in inches unless otherwise indicated)

| | | |
|-------|--------------|-------|
| MODEL | SAE Ref. No. | 4-4-2 |
|-------|--------------|-------|

FRONT COMPARTMENT

| | | |
|----------------------------------|-----|------|
| Effective head room | H61 | 37.6 |
| Max. eff. leg room – accelerator | L34 | 42.7 |
| H Point to Heel point | H30 | 8.1 |
| H Point travel | L17 | 4.8 |
| Shoulder room | W 3 | 58.3 |
| Hip room | W 5 | 59.7 |
| Upper body opening to ground | H50 | 43.6 |

REAR COMPARTMENT

| | | |
|------------------------------|-----|------|
| H Point couple distance | L50 | 30.6 |
| Effective head room | H63 | 36.3 |
| Min. effective leg room | L51 | 32.7 |
| H Point to Heel point | H31 | 10.2 |
| Min. knee room | L48 | 0.5 |
| Rear Compartment room | L 3 | 24.4 |
| Shoulder room | W 4 | 56.7 |
| Hip room | W 6 | 53.0 |
| Upper body opening to ground | H51 | N.A. |

LUGGAGE COMPARTMENT

| | | |
|--------------------------------|------|-------------------------------|
| Usable luggage capacity | V 1 | 17.5 |
| Liftover height To Zero | H195 | 22.9 |
| Position of spare tire storage | | |
| Method of holding lid open | | Counter Balance - Torsion Bar |

STATION WAGON – THIRD SEAT

| | | |
|-----------------------|-----|----------------|
| Shoulder Room | W85 | NOT APPLICABLE |
| Hip room | W86 | |
| Effective leg room | L86 | |
| Effective head room | H86 | |
| Seat facing direction | | |

STATION WAGON – CARGO SPACE

| | | |
|--|------|----------------|
| Cargo length at floor – front seat | L202 | NOT APPLICABLE |
| Cargo length at belt – front seat | L204 | |
| Cargo width – wheelbase | W201 | |
| Opening width at belt | W204 | |
| Maximum cargo height | H201 | |
| Rear opening height | H202 | |
| Cargo volume index (cu. ft.) W4 x L204 x H201 1728 | V2 | |

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POWER TEAMS

(Indicate whether standard or optional)

| MODEL AVAILABILITY | ENGINE | | | | | TRANSMISSION | AXLE RATIO (Std. first) (Indicate A/C ratio) |
|--|-------------------|------------|-----------------|------------------------|------------------|---|--|
| | Displ. cu. in. | Carburetor | Compr. Ratio | BHP RPM | Torque RPM | | |
| 34467 (Std.) 34477 (Std.) 34487 (Std.) | 400 | 4 Bbl. | 10.5 | ** 350 @ 4800 | 440 @ 3200 | 3-Speed (Std.) 4-Speed (Opt.) (Wide Ratio) 4-Speed (Opt.) (Close Ratio) Turbo Hydra- Matic (Opt.) | 3.23, 3.08, 3.42, 3.91, *4.33, *4.66 3.42, 3.08, 3.23 (A/C 3.23, 3.08) 3.91, 3.42, *4.33, *4.66 3.08, 3.23, 3.42, 3.91, *4.33, *4.66 |
| 34467 (Opt.) 34477 (Opt.) 34487 (Opt.) | 400 (L65) | 2 Bbl. | 9.00 | 290 @ 4600 | 425 @ 2400 | Turbo Hydra- Matic (Std.) | 2.56, 2.78, 3.08 |
| 34477 (Opt.) 34487 (Opt.) | 400 (W30) | 4 Bbl. | 10.5 | 360 @ 5400 | 440 @ 3600 | 4-Speed (Std.) (Close Ratio) Turbo Hydra- Matic (Opt.) | 4.33, 3.42, 3.91, *4.66 3.42, 3.91, 4.33, *4.66 |

* Dealer installed option.
** Not available on AMT
*** Not available on SMT

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (a)

MODEL 4-4-2 (Exc. W30 or L65 Options)

ENGINE - GENERAL

| | | |
|--|---|---------|
| Type, no. cyls., valve arr. | 90° OHV V-8 | |
| Bore and stroke (nominal) | 3.870 x 4.250 | |
| Piston displacement, cu. in. | 400 | |
| Bore spacing (C to C) | 4.625 | |
| No. system (front to rear) | L. Bank | 1-3-5-7 |
| | R. Bank | 2-4-6-8 |
| Firing order | 1-8-4-3-5-6-7-2 | |
| Compres. ratio (nominal) | 10.5:1 | |
| Cylinder Head Material | Cast Iron | |
| Cylinder Block Material | Cast Iron | |
| Cyl. Sleeve-Wet, dry, none | None | |
| Number of mtg. points | Front | Two |
| | Rear | One |
| Engine installation angle | 4° 37' | |
| Taxable horsepower | $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$ 47.926 | |
| Publishing max. bhp* @ eng. RPM | 350 @ 4800 | |
| Publishing max. torque* (lb. ft. @ RPM) | 440 @ 3200 | |
| Recommended fuel regular - premium | Premium | |

ENGINE - PISTONS

| | | | |
|--------------------------|---|-------------|-----------------|
| Material | Aluminum Alloy | | |
| Description and finish | Autothermic, Cam Grind, Tinplate, Steel Strut | | |
| Weight (piston only) oz. | 21.094 | | |
| Clearance (limits) | Top land | .032 - .043 | |
| | Skirt | Top | .00125 - .0275 |
| | | Bottom | .00075 - .00125 |
| Ring groove depth | No. 1 ring | .205 - .212 | |
| | No. 2 ring | .205 - .212 | |
| | No. 3 ring | .195 - .202 | |
| | No. 4 ring | - - | |

* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

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MODEL 4-4-2

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. | None |
| Compression | Description - * material, coating, etc. | Upper Ring - Cast Iron with Crowned and Molybdenum Plated O.D. Lower Ring - Cast Iron with Taper O.D. Face. |
| | Width | .0770 - .0780 |
| | Gap | .010 - .020 |
| Oil | Description - material, coating, etc. | Two Rails - Spring Steel, Black Oxide Finish with Chrome Plated O.D. Spacer - Cold Rolled Spacer Steel. |
| | Width | Rails: .0230 - .0252 Spacer: .1375 - .1335 |
| | Gap | Rails: .015 - .055 |
| Expanders | | None |

ENGINE - PISTON PINS

| | | |
|-------------------------------------|---|--|
| Material | | SAE #1019 or #1016 |
| Length | | 2.980 |
| Diameter | | .9803 - .9807 |
| Type | Locked in rod, in piston, floating, etc. | Pressed in Rod |
| | Bush- ing | In rod or piston Material |
| Clearance | In piston | .0003 - .0005 Loose |
| | In rod | .0008 - .0016 Press |
| Direction & amount offset in piston | | .060 to R.H. of Cylinder Bore Centerline |

ENGINE - CONNECTING RODS

| | | |
|---------------------------|--------------------|--|
| Material | | SAE #1140 Steel |
| Weight (oz.) | | 30.33 |
| Length (center to center) | | 6.733 - 6.737 |
| Bearing | Material & Type | Moraine 400 (GM 3889 Aluminum) Steel Backed |
| | Overall length | .821 - .831 |
| | Clearance (limits) | .0004 - .0033 |
| | End play | .002 - .011 2 Rods per Crankpin |

* Surface of boths rings treated with Graphitox).

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MODEL 4-4-2

ENGINE – CRANKSHAFT

| | | | | |
|-----------------------------------|---|--|--------------|--|
| Material | | Nodular Iron (Std.) AISI #1049 Modified (Opt.) | | |
| Vibration damper type | | Tuned Rubber | | |
| End thrust taken by bearing (No.) | | #3 | | |
| Crankshaft end play | | .004 - .008 | | |
| Main bearing | Material & type | Moraine 400 (GM 3889-M Aluminum) Steel Backed | | |
| | Clearance | 1-2-3-4: .005 - .0021 5: .0020 - .0034 | | |
| | Journal dia. and bearing overall length | No. 1 | 3.00 x .975 | |
| | | No. 2 | 3.00 x .975 | |
| | | No. 3 | 3.00 x 1.194 | |
| | | No. 4 | 3.00 x .975 | |
| | | No. 5 | 3.00 x 1.624 | |
| | | No. 6 | - - | |
| | No. 7 | - - | | |
| Dir. & amt. cyl. offset | | R.H. Bank .469 to Rear and L.H. Bank .469 Forward of E Engine. | | |
| Crankpin journal diameter | | 2.4988 - 2.4998 | | |

ENGINE – CAMSHAFT

| | | | | |
|---------------|--------------------------------------|--|-------------------------|--|
| Location | | Center | | |
| Material | | GM 6016M Alloy Cast Iron | | |
| Bearings | Material | Moraine 100 - Steel Backed Babbit GM 4167M | | |
| | Number | 5 | | |
| Gear or chain | | Chain | | |
| Type of Drive | Crankshaft gear or sprocket material | Sintered Iron or Hardened Steel | | |
| | Camshaft gear or sprocket material | Die Cast Aluminum with Nylon Teeth | | |
| | Timing chain | No. of links | 48 | |
| | | Width | .875 (Std.) .844 (Opt.) | |
| Pitch | | .500 | | |

ENGINE – VALVE SYSTEM

| | | | |
|---|---------|----------|--|
| Hydraulic lifters (Std., opt., NA) | | Standard | |
| Valve rotator, type (intake, exhaust) | | None | |
| Rocker ratio | | 1.6:1 | |
| Operating tappet clearance (indicate hot or cold) | Intake | None | |
| | Exhaust | None | |

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1968 **DATE ISSUED** 6-1-67 **REVISED** (*)
MODEL SM (STD.) 4-4-2 (Exc. L65 or W30) AT (OPT.)

ENGINE – VALVE SYSTEM (cont.)

| | | | | | |
|--|---------------------------------------|---------------------------|-------------------|------------------|--|
| Timing (based on top of ramp points) | Intake | Opens (°BTC) | 30° | 21° | |
| | | Closes (°ABC) | 76° | 77° | |
| | | Duration - deg. | 286° | 278° | |
| | Exhaust | Opens (°BBC) | 78° | 76° | |
| | | Closes (°ATC) | 28° | 26° | |
| | | Duration - deg. | 286° | 282° | |
| Valve opening overlap | | 58° | 47° | | |
| Intake | Material | | SAE #1047 Steel | | |
| | Overall length | | 4.703 | | |
| | Actual overall head dia. | | 2.067 - 2.077 | | |
| | Angle of seat & face | | 30° | | |
| | Seat insert material | | None | | |
| | Stem diameter | | .3432 - .3425 | | |
| | Stem to guide clearance | | .0010 - .0027 | | |
| | Lift (@ zero lash) | | .472 | .430 | |
| | Outer spring press. & length | Valve closed (lb.@in.) | 76 - 84 @ 1.670 | | |
| | | Valve open (lb.@in.) | 180 - 194 @ 1.270 | | |
| | Inner spring press. & length | Valve closed (lb.@in.) | Damper | | |
| | | Valve open (lb.@in.) | - - | | |
| | Exhaust | Material | | GM #N82152 Steel | |
| | | Overall length | | 4.695 | |
| Actual overall head dia. | | 1.629 - 1.619 | | | |
| Angle of seat & face | | 45° Seat 46° Face | | | |
| Seat insert material | | None | | | |
| Stem diameter | | .3427 - .3420 | | | |
| Stem to guide clearance | | .0015 - .0032 | | | |
| Lift (@ zero lash) | | .472 | .432 | | |
| Outer spring press. & length | | Valve closed (lb.@in.) | 76 - 84 @ 1.670 | | |
| | | Valve open (lb.@in.) | 180 - 194 @ 1.270 | | |
| Inner spring press. & length | | Valve closed (lb.@in.) | Damper | | |
| | | Valve open (lb.@in.) | - - | | |

ENGINE – LUBRICATION SYSTEM

| | | |
|---|----------------------|----------|
| Type of lubrica- tion (splash, pressure, nozzle) | Main bearings | Pressure |
| | Connecting rods | Pressure |
| | Pistan pins | Splash |
| | Camshaft bearings | Pressure |
| | Tappets | Pressure |
| | Timing gear or chain | Pressure |
| | Cylinder walls | Pressure |

(Continued)

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MODEL 4-4-2

ENGINE – LUBRICATION SYSTEM (cont.)

| | |
|---|--|
| Oil pump type | Gear |
| Normal oil pressure (lb. engine rpm) | 35 - 50 @ 1500 RPM |
| Oil press. sending unit (elect. or mech.) | Electric |
| Type oil intake (floating, stationary) | Stationary |
| Oil filter system (full flow, part., other) | Full Flow |
| Filter replacement (element, complete) | Complete |
| Capacity of c/case, less filter-refill (qt.) | 4 |
| Oil grade recommended (SAE viscosity and temperature range) | Above 32°F - SAE 10W30, SAE 20W Below 32°F - SAE 10W30, SAE 10W Below 0°F - SAE 5W20, SAE 5W |
| Engine Service Reqmt. (MM, MS, etc.) | MS |

ENGINE – EXHAUST SYSTEM

| | |
|--|--|
| Type (single, single with cross-over, dual, other) | Dual |
| Muffler No. & type (reverse flow, straight thru, separate resonator) | Two Straight Thru Mufflers & Resonator |
| Exhaust pipe dia. (O.D., wall thick.) | Branch Main |
| | 2.25 x .076 |
| Tail pipe dia. (O.D. & wall thickness) | 2.25 x .060 |

ENGINE – CRANKCASE VENTILATION SYSTEM

| | | |
|--|--|---|
| Type (ventilates to atmos., induction system, other) | Standard Optional | Positive Crankcase Ventilation None |
| Make and model | | AC Ventilation Valve CV-679C |
| Location | | Valve Cover |
| Control Unit | Energy source (manifold vacuum, carburetor air stream, other) | Manifold Vacuum |
| | Control method (variable orifice, fixed orifice, other) | Variable Orifice |
| Complete system | Discharges (to intake manifold, carb. air intake, air cleaner intake, other) | Intake Manifold and Air Cleaner |
| | Air inlet (breather cap, carburetor air cleaner, other) | Ventilation Filter Located in Air Cleaner |
| | Flame arrestor (screen, check valve, other) | Check in Ventilation Valve |

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MODEL _____ 4-4-2

ENGINE – EXHAUST EMISSION CONTROL

| Type (Air injection, engine modifications, other) | Engine Modification * | | | | | |
|---|--|--|-------|--|---------|--|
| Air Injection Pump | Type | None | | | | |
| | Displacement | | | | | |
| | Drive ratio | | | | | |
| | Drive type | | | | | |
| | Relief valve (type) | | | | | |
| | Filter (describe) | | | | | |
| Air Injection System | Air distribution (head, manifold, etc.) | None | | | | |
| | Point of entry | | | | | |
| | Injection tube I.D. | | | | | |
| | Check valve type | | | | | |
| | Backfire protection (type) | | | | | |
| Carburetor | Make | Standard | | | | |
| | Model | | | | | |
| | Barrel size | | | | | |
| | Idle speed | <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Drive</td> <td></td> </tr> <tr> <td>Neutral</td> <td></td> </tr> </table> | Drive | | Neutral | |
| | Drive | | | | | |
| Neutral | | | | | | |
| Idle A/F mixture | | | | | | |
| Distributor | Aux. Adv. Systems (type) | None | | | | |
| | Make | Standard | | | | |
| | Model | | | | | |
| | Cent'fgal adv. in crank degrees @ eng. rpm | Start (rpm) | | | | |
| | | Intermed. points deg. @ rpm | | | | |
| | | Max. deg. @ rpm | | | | |
| | Vacuum adv. in crank degrees @ eng. rpm | Start (in Hg) | | | | |
| Intermed. points deg. @ in. Hg | | | | | | |
| Max. deg. @ in. | | | | | | |
| Vacuum Source | Ported | | | | | |
| Timing - Crank degrees @ rpm | Standard | | | | | |
| Cooling System (describe changes) | None | | | | | |
| Exhaust System (describe changes) | None | | | | | |

* Exhaust emission is controlled by means of pre-heated air to carburetor, carburetion adjustment, engine timing and idle setting.

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MODEL 4-4-2

ENGINE – FUEL SYSTEM (See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

| | | | |
|---|---|----------------------------------|--|
| Induction type: Carburetor, fuel injection, supercharger. | | Carburetor | |
| Fuel | Refill capacity (U.S. gals.) | 20 | |
| T | Filler location | Behind License Plate Rear Bumper | |
| Fuel | Type (elec. or mech.) | Mechanical | |
| Pump | Locations | R.F. on Block | |
| | Pressure range | 5 1/2 - 7 psi | |
| Vacuum booster (std., optional, none) | | None | |
| Fuel | Type | Paper and Saran Type | |
| Filter | Locations | Carburetor and Fuel Tank | |
| | Choke type | Automatic | |
| | Intake manifold heat control (exhaust or water) | Exhaust | |
| Carburetor | Air cleaner type | Standard | Oil Wetted Paper Element (Temperature Controlled) |
| | | Optional | Same as above except with external cold air intake (W30) |
| | Idle speed (spec. neutral or drive) | Manual | 725 N |
| Automatic | | 725 DR | |
| Idle A/F mix. | | N.A. | |

CARBURETOR SUPPLEMENTARY INFORMATION

| Model Usage | Engine Displ. | Transmission | Carburetors | | No. Used and Type | Barrel Size |
|------------------------------------|---------------|---|-------------|-------|-------------------|---------------------------|
| | | | Make | Model | | |
| 34467 (Standard) 34477 34487 | 400 | Fully Synch. 3-Speed 4-Speed Turbo Hydra-Matic | Rochester | 4 MV | 1 | Prim. 1 3/8 Sec. 2 1/4 |
| 34467 (Optional) 34477 34487 | 400 | Turbo Hydra-Matic | Rochester | 2 GC | 1 | Prim. 1 11/16 |

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MODEL 4-4-2

ENGINE – COOLING SYSTEM

| | | | |
|---|------------------------------|-------------------------------------|-------------|
| Type system (pressure, pressure vented, atmospheric, other) | | Pressure | |
| Radiator cap relief valve pressure | | 15 psi | |
| Circulation thermostat | Type (choke, bypass) | Choke | |
| | Starts to open at (°F) | 195° | |
| Water pump | Type (centrifugal, other) | Centrifugal | |
| | GPM @ 1000 pump rpm | 22 | |
| | Number of pumps | 1 | |
| | Drive (V-belt, other) | V-Belt | |
| | Bearing type | Ball | |
| By-pass recirculation type (inter., ext.) | | External | |
| Radiator core type (cellular, tube and fin, other) | | Tube and Center | |
| Cooling system capacity | With heater (qt.) | 16.2 | |
| | Without heater (qt.) | 15.5 | |
| | Opt. equipment-specify (qt.) | 17.2 A/C | |
| Water jackets full length of cyl. (yes, no) | | Yes | |
| Water all around cylinder (yes, no) | | Yes | |
| Radiator hose | Lower | Number and type (molded, straight) | One Molded |
| | | Inside diameter | 1.75 |
| | Upper | Number and type (molded, straight) | One Molded |
| | | Inside diameter | 1.50 |
| | By-pass | Number and type (molded, straight) | One Molded |
| | | Inside diameter | .765 - .703 |
| Fan | Number of blades & spacing | 4 @ 76° (Std.) 6 Staggered (A/C) | |
| | Diameter | 18.00 | |
| | Ratio-fan to crankshaft rev. | .9083:1 (Std.) 1.22:1 (Optional) | |
| | Fan cutout type | Clutch (Optional) | |
| | Bearing type | Ball | |
| *Drive belts (indicate belt used by letter) | Fan | A (Std.) B (A/C & Optional) | |
| | Generator or alternator | A (Std.) B (A/C & Optional) | |
| | Water Pump | A (Std.) B (A/C & Optional) | |
| | Power Steering | C (Std.) D (A/C & Optional) | |
| | Air Conditioning | E | |

| * Drive Belt Dimensions | A | B | C | D | E | F | G | H | I | J | K |
|-------------------------|-------|-------|-------|-------|-------|---|---|---|---|---|---|
| Angle of V | 36° | 36° | 36° | 36° | 36° | | | | | | |
| Nominal length (SAE) | 51.50 | 57.23 | 44.11 | 45.19 | 59.70 | | | | | | |
| Width | .380 | .380 | .380 | .380 | .380 | | | | | | |

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1967

MODEL 4-4-2

ELECTRICAL – SUPPLY SYSTEM

| | | | |
|-------------------------------|---------------------------------|----------------------------------|--------------------------------------|
| | Make and Model | | Delco Remy - 1980036 |
| | Voltage Rtg. & Total Plates | | 12V-66 |
| | SAE Designation & Amp. Hr. Rtg. | | 25TA - 70 AMP Hr. |
| | Location | | Engine Compartment - Front L.H. Side |
| | Terminal grounded | | Negative |
| Generator or Alternator | Make | | Delco Remy |
| | Model | | 1100767 |
| | Type and rating | | Diode Rectifying 37 AMP |
| | Output at engine idle (neutral) | | 9 AMP's |
| | Ratio-Gen. to Cr/s rev. | | 2.56 |
| Regulator | Make | | Delco Remy |
| | Model | | 1119515 |
| | Type | | Vibrating Contact |
| | Cutout relay | Closing voltage generator rpm | None |
| | | Reverse current to open | None |
| | Regu- lated | Voltage | 13.5 - 14.4 |
| | | Current | Self-Regulating |
| Voltage test conditions | Temperature | 120° F | |
| | Load | Less than 10 AMP | |
| | Other | Upper Contacts | |

ELECTRICAL – STARTING SYSTEM

| | | | | |
|-------------------|------------------------------|----------|--|-----|
| Starting Motor | Make | | Delco Remy | |
| | Model | | 1108348 | |
| | Rotation (drive end view) | | Clockwise | |
| Motor control | Switch (solenoid, manual) | | Solenoid | |
| | Starting procedure | | 3 & 4 Speed - Place gear shift lever in neutral and depress clutch to floor. Turbo Hydra-Matic - Place shift lever in park. * | |
| Motor Drive | Engagement type | | Solenoid Overrunning Clutch | |
| | Pinion meshes (front, rear) | | Front | |
| | Number of teeth | Pinion | 9 | |
| | | Flywheel | Manual | 166 |
| | | | Auto. | 166 |
| | Flywheel tooth face width | Manual | .438 | |
| Auto. | | .438 | | |

* Initial Start - Depress gas pedal to floor to set choke. Turn ignition to start and release as soon as engine starts.

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED ^(*) Sept., 1967

MODEL _____

4-4-2

ELECTRICAL – IGNITION SYSTEM

| | | | | |
|---------------------------|---|--------------------------------------|--------------------------------|--|
| Type | Conventional – Std., Opt., N.A. | | Standard | |
| | Transistorized – Std., Opt., N.A. | | Optional | |
| | Other (specify) | | - - | |
| Coil | Make | | Delco Remy | |
| | Model | | 1115216 | |
| | Amps | Engine stopped | 4.0 | |
| | | Engine idling | 2.0 | |
| ** Distributor | Make | | Delco Remy | |
| | Model | | 1111287 | |
| | Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal) | Start (rpm) | 0° - 2° @ 850 RPM | |
| | | Intermediate points deg.@rpm | 16° - 20° @ 1800 RPM | |
| | | Max. deg.@rpm | 20° - 24° @ 4000 RPM | |
| | Vacuum adv. in c/shaft degrees@ in. Hg. (nominal) | Start (in. Hg.) | 0° - 3° @ 9 In. Hg. | |
| | | Intermediate points, deg.@in. Hg. | 0° - 5 1/2° @ 10 In. Hg. | |
| | | | 11 1/2° - 18° @ 15 In. Hg. | |
| | | | 19° - 25 1/2° @ 18 1/2 In. Hg. | |
| | Max. deg. in. Hg. | 22 1/2° - 25 1/2° @ 20 1/2 In. Hg. | | |
| Breaker gap (in.) | | .016 | | |
| Cam angle (deg.) | | 29° - 31° | | |
| Breaker arm tension (oz.) | | 19 - 32 | | |
| Timing | Crankshaft deg.@rpm | | 2 1/2° @ 850 RPM | |
| | Mark location | | Balancer Assembly | |
| Spark Plug | Make | | AC | |
| | Model | | AC 44S | |
| | Thread (mm) | | 14 mm | |
| | Tightening torque (lb. ft.) | | 30 | |
| | Gap | | .030 | |
| Cable | Conductor type | | Resistance | |
| | Insulation type | | Neoprene | |
| | Spark plug protector | | Hypolon | |

ELECTRICAL – SUPPRESSION

| | |
|------------------|---|
| Locations & type | * |
|------------------|---|

* Resistance core spark plug leads and coil leads, by-pass condensers at alternator and at regulator and coil on radio equipped cars.

** Centrifugal advance and vacuum advance figures are for standard (non-transistorized) ignition only.

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (e)

MODEL _____ 4-4-2

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

| | | |
|-------------------------------|------------------------|------------------|
| Speed-ometer | Type | AC |
| | Trip odometer (yes,no) | No |
| Charge indicator – type | | Indicator Lamp |
| Temperature indicator – type | | Indicator Lamp |
| Oil pressure indicator – type | | Indicator Lamp |
| Fuel indicator – type | | Gauge |
| Other | Brake | Indicator Lamp |
| Wind-shield wiper | Type – Standard | 2-Speed Electric |
| | Type – Optional | - - |
| Wind-shield washer | Type – Standard | Push Button |
| | Type – Optional | - - |
| Horn | Type | Vibrating |
| | Number used | 2 |
| | Amp draw (each) | 5.2 - 5.7 |

DRIVE UNITS – CLUTCH (Manual Transmission)

| | | |
|-----------------------------|-------------------------------------|------------------------------|
| Make & type | Borg & Beck Single Plate | |
| Type pressure plate springs | Belleville Spring | |
| al spring load (lb.) | 2450 - 2750 Assemblies | |
| No. of clutch driven discs | One | |
| Clutch facing | Material | Woven Asbestos |
| | Outside & inside dia. | 11.0 x 6.5 |
| | Total eff. area (sq.in.) | 123.7 |
| | Thickness | One .135 and one .150 |
| | Engagement cushioning method | Flat Springs |
| Release bearing | Type & method of lubrication | Ball Permanent |
| Torsional damping | Methods: springs, friction material | Coil Spring - Steel Friction |

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (e)

MODEL 4-4-2

DRIVE UNITS – TRANSMISSIONS

| | |
|--------------------------------------|----------|
| Manual 3-speed (std. or opt.) | Standard |
| Manual 4-speed (std. or opt.) | Optional |
| Manual with overdrive (std. or opt.) | N.A. |
| Automatic (std. or opt.) | Optional |

DRIVE UNITS – MANUAL TRANS.

| | | | |
|------------------------------------|----------------------|--------------|----------|
| Number of forward speeds | 3 | | |
| Transmission ratios | In first | 2.42 | |
| | In second | 1.61 | |
| | In third | 1.00 | |
| | In fourth | -- | |
| | In reverse | 2.33 | |
| Synchronous meshing, specify gears | 1-2-3 | | |
| Shift lever location | Column | | |
| Lubricant | Capacity (pt.) | 4.90 | |
| | Type recommended | Multipurpose | |
| | SAE viscosity number | Summer | 80 or 90 |
| | | Winter | 80 or 90 |
| | | Extreme cold | 80 or 90 |

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

| | | |
|---|---------------------------------|--------|
| Type (planetary or other) | NOT AVAILABLE | |
| Manual lockout (yes, no) | | |
| Downshift accelerator control (yes, no) | | |
| Minimum cut-in speed | | |
| Lubricant | Gear ratio | |
| | Capacity (pt.) (Overdrive only) | |
| | Separate filler (yes, no) | |
| | Type recommended | |
| | SAE viscosity number | Summer |
| Winter | | |
| Extreme cold | | |

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED ^(a) Sept., 1967

MODEL 4-4-2

DRIVE UNITS – AUTOMATIC TRANSMISSION

| | | | | | | |
|---|--|---------------------|---------------------|-------------------|-------------------|-----------------|
| Trade name | Turbo Hydra-Matic | | | | | |
| Type describe | 3 Speed Torque Converter | | | | | |
| Selector location | Lever-Column Mounted | | | | | |
| List gear ratios Selector Pattern and indicate which are used in each selector position | P Park | R Reverse | N Neutral | D Drive | S Super | L Low |
| | -- | 2.08 | -- | 2.48 | 2.48 | 2.48 |
| | -- | -- | -- | 1.48 | 1.48 | -- |
| | -- | -- | -- | 1.00 | -- | -- |
| Max. upshift speed—drive range | 1-2 45-50 MPH | | 2-3 79-84 MPH | | | |
| Max. kickdown speed—drive range | 2-1 28-33 MPH | | 3-2 68-73 MPH | | | |
| Torque convertor | Number of elements | 3 | | | | |
| | Max. ratio at stall | 2.30 Fixed Stator | | | | |
| | Type of cooling (air, liquid) | Water | | | | |
| | Nominal diameter | 13.6 | | | | |
| Lubricant | Capacity—refill (pt.) | 8 | | | | |
| | Type recommended | Dexron | | | | |
| Special transmission features | Part throttle 3-2 downshift up to 45 MPH to provide added performance. | | | | | |

DRIVE UNITS – PROPELLER SHAFT

| | | |
|--|------------------------|--------------------------|
| Number used | One | |
| Type (straight tube, tube-in-tube, internal-external damper, etc.) | Exposed | |
| Outer diam. x length* x wall thickness | Manual 3-speed trans. | 3.25 dia. x 60.00 x .065 |
| | Manual 4-speed trans. | 3.25 dia. x 60.00 x .065 |
| | Overdrive transmission | N.A. |
| | Automatic transmission | 3.25 dia. x 60.00 x .065 |

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1968 **DATE ISSUED** 6-1-67 **REVISED** (*)

MODEL 4-4-2

DRIVE UNITS – PROPELLER SHAFT (cont.)

| | | |
|---|------------------------------------|-----------------------------|
| Inter-mediate bearing | Type (plain, anti-friction) | None |
| | Lubrication (fitting, prepack) | None |
| Slip Yoke | Type | Involute Spline |
| | Number of teeth | 28 |
| | Spline O.D. | 1.211 |
| Universal joints | Make and Mfg. No. | Saginaw Steering Gear |
| | Number used | 2 |
| | Type (ball and trunnion, cross) | Cross |
| | Rear attach. (u-bolt, clamp, etc.) | |
| | Bearing | Type (plain, anti-friction) |
| Lubric. (fitting, prepack) | | Prepack |
| Drive taken through (torque tube or arms, springs) | | Arms |
| Torque taken through (torque tube or arms, springs) | | Arms |

DRIVE UNITS – AXLE

| | | | |
|-----------------------------------|---|---|-------|
| Type (front, rear) | Rear | | |
| Description | Salisbury Live Hypoid - Semi-Floating | | |
| Limited Slip differential, type | Multiple Plate Clutch - "S" Shaped Preload Spring | | |
| Drive Pinion Offset | 1.75 | | |
| No. of differential pinions | 2 | | |
| Pinion adjustment (shim, other) | Shim | | |
| Pinion bearing adj. (shim, other) | Coll. Spacer | | |
| Wheel bearing type | Ball | | |
| Lubricant | Capacity (pt.) | 3.69 | |
| | Type recommended | GM 4744-M (Std.), Mobile XRP 464BD-M (L.S.) | |
| | SAE viscosity number | Summer | 80-90 |
| | | Winter | 80-90 |
| | | Extreme cold | 80-90 |

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

| | | | | | |
|----------------|-----------|-------|-------|-------|-------|
| Axle ratio | | 3.08 | 3.23 | 3.42 | 3.91 |
| No. of teeth | Pinion | 13 | 13 | 12 | 11 |
| | Ring gear | 40 | 42 | 41 | 43 |
| Ring Gear O.D. | | 8.560 | 8.555 | 8.552 | 8.543 |

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (*)

MODEL 4-4-2

DRIVE UNITS – WHEELS

| | | | |
|--------------------------|---------------------|-------------------|--|
| Type & material | | Welded Wheel | |
| R m (size & flange type) | Std. | 14 x 6JK | |
| | Opt. | N.A. | |
| Attachment | Type (bolt or stud) | Stud | |
| | Circle diameter | 4.75 | |
| | Number and size | 5 Studs 7/16 Dia. | |

MODEL _____

DRIVE UNITS – TIRES

| | | | |
|----------|-----------------------------|-------|---|
| Standard | Size, ply rating, & ply | | F70 x 14 |
| | Type (bias, radial, etc.) | | Bias |
| | Full rated Inflation Press. | Front | 24 |
| | | Rear | 24 |
| | Rev./Mile at 50 MPH | | 775 |
| Optional | Size, ply rating, & ply | | 205R14 Radial Ply (Optional on 2-Bbl.) 7.75 x 14 Nylon |

BRAKES – PARKING

| | | |
|---------------------------------|--|--------------------------|
| Type of control | | Suspended Pedal |
| Location of control | | Left Drivers Compartment |
| Operates on | | Rear Brake |
| If separate from service brakes | Type (internal or external) | Not Separate |
| | Drum diameter | Not Separate |
| | Lining size (length x width x thickness) | Not Separate |

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (e)MODEL 4-4-2

BRAKES - SERVICE

| | | | | |
|--|---|-------------------------------------|---|-----------------------------------|
| Type (drum or disc) | | Drum (Duc-Servo) | | |
| Self adjusting (std., opt., N.A.) | | Standard | | |
| Power brake make & type (remote, int., etc.) | Std. | Optional | | |
| | Opt. | Integral | | |
| Effective area (sq. in.)* | | 172.8 | | |
| Gross lining area (sq. in.)** | | 173.6 | | |
| Swept area (sq. in.)*** | | 291.0 | | |
| Percent brake effectiveness - front | | 60.67 | | |
| Drum or Disc | Diameter (nominal) | Front | 9.5 | |
| | | Rear | 9.5 | |
| | Type and material | | Centrifical Cast-Front - Composite-Rear | |
| | Disc (vented or solid) | | | |
| No. pistons per caliper | | | | |
| Wheel cylinder bore | Front | | 1 1/8 | |
| | Rear | | 15/16 | |
| Master Cylinder | Bore | | 1.00 | |
| | displacement distribution | Front % | 59 | |
| | | Rear % | 41 | |
| Disc Brk. Valve | Type (proportion, delay, metering, other) | | | |
| Pedal arc ratio | | 3.5 | | |
| Line pressure at 100 lb. pedal load | | 710 psi (Manual) - 1180 psi (Power) | | |
| Shoe clearance adjustment | | .015 per Shoe | | |
| Brake lining | Drum or Disc | | Drum | |
| | Bonded or riveted | | Riveted | |
| | Front Wheel | Material | | Marshall H3144 Pri. - H3152F Sec. |
| | | Size (length x width x thickness) | Prim. or out-board | 7.48 x 2.50 x .166 |
| | | | Second. or in-board | 9.88 x 2.50 x .231 |
| | | Segments per shoe | | One |
| | Rear Wheel | Material | | Marshall H3144 Pri. - H3152F Sec. |
| | | Size (length x width x thickness) | Prim. or out-board | 7.48 x 2.50 x .166 |
| Second. or in-board | | | 9.88 x 2.50 x .231 | |
| Segments per shoe | | | | |

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (a)

MODEL 4-4-2

BRAKES—SERVICE

| Type (drum or disc) | | Disc Front | Drum Rear | |
|--|---|-----------------------------------|---------------------|-------------------------------|
| Self adjusting (std., opt., N.A.) | | Standard | | |
| Power brake make & type (remote, int., etc.) | | Optional | | |
| Std. | | Delco Moraine - Integral | | |
| Opt. | | | | |
| Effective area (sq. in.)* | | 40.6 | 66.1 | |
| Gross lining area (sq. in.)** | | 44.8 | 69.4 | |
| Swept area (sq. in.)*** | | 206.4 | 142 | |
| Percent brake effectiveness—front | | 68 | | |
| Drum or Disc | Diameter (nominal) | 11.00 | | |
| | Front | | | |
| | Rear | | 9.50 | |
| | Type and material | Rotor Cast Iron | Drum Composite | |
| Disc (vented or solid) | | Vented | | |
| No. pistons per caliper | | One | | |
| Wheel cylinder bore | Front | 2.06 | | |
| | Rear | | .81 | |
| Master Cylinder | Bore | | 1.125 | |
| | displacement distribution | Front % | 75 | |
| | | Rear % | 25 | |
| Disc Brk. Valve | Type (proportion, delay, metering, other) | Proportion | | |
| Pedal arc ratio | | 3.5 | | |
| Line pressure at 100 lb. pedal load | | 960 | | |
| Shoe clearance adjustment | | .001 | .015 per shoe | |
| Brake lining | Drum or Disc | | Disc Front | |
| | Bonded or riveted | | Riveted | |
| | Front Wheel | Material | | Johns-Manville 2000B-44 |
| | | Size (length x width x thickness) | Prim. or out-board | 6.0 x 1.83 x .38 |
| | | | Second. or in-board | 6.0 x 1.83 x .38 |
| | | Segments per shoe | | One |
| | Rear Wheel | Material | | Marshall Pri.H3144;Sec.H3152F |
| | | Size (length x width x thickness) | Prim. or out-board | 7.48 x 2.0 x .166 |
| | | | Second. or in-board | 9.88 x 2.0 x .231 |
| | | Segments per shoe | | One |

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (*)

MODEL _____ 4-4-2

STEERING

| | | | | |
|--|---|------------------------|-----------------------|-----------------|
| Manual (std., opt., NA) | | Standard | | |
| Power (std., opt., NA) | | Optional | | |
| Adjustable steering wheel (tilt, swing, other) | Type and description | Tilt-a-Way | | |
| | (std., opt., NA) | Optional | | |
| Wheel diameter | Manual | 16.0 | | |
| | Power | 16.0 | | |
| Turning diameter (feet) | Outside front | Wall to wall (l. & r.) | 43.3 | |
| | | Curb to curb (l. & r.) | 40.0 | |
| | Inside rear | Wall to wall (l. & r.) | 23.4 | |
| | | Curb to curb (l. & r.) | 24.2 | |
| Outside whl. angle with inside whl. at 20° | | | 18.8 | |
| Manual | Gear | Type | Ball Nut | |
| | | Make | Saginaw Steering Gear | |
| | | Ratios | Gear | 24.0:1 |
| | Overall | | 28.3:1 | |
| No. wheel turns | | | 5.56 Lock to Lock | |
| Power | Type (coaxial, linkage, etc.) | | Gear Integral | |
| | Make | | Saginaw Steering Gear | |
| | Gear | Type | Gear Integral | |
| | | Ratios | Gear | 17.5:1 |
| | | | Overall | 20.7:1 |
| | Pump driven by | | | Belt from Crank |
| Number wheel turns | | | 4.3 Lock to Lock | |
| Linkage | Type | | Parallelogram | |
| | Location (front or rear of wheels, other) | | Front | |
| | Drag link (trans. or longit.) | | Transverse | |
| | Tie rods (one or two) | | Two | |
| Steering Axis | Inclination of camber (deg.) | | 9° at +1° Camber | |
| | Bearings (type) | Upper | Ball Joint | |
| | | Lower | Ball Joint | |
| | | Thrust | Ball Joint | |
| Whl. Align. (range at curb wt. & preferred) | Caster (deg.) | | Range -3/4 to -1 3/4 | |
| | Camber (deg.) | | Range -1/4 to +1/2 | |
| | Toe-in (outside track inches) | | .12 to .24 | |
| Steering spindle & joint type | | | Ball Joint | |
| Wheel Spindle | Diameter | Inner bearing | 1.2497 - 1.2492 | |
| | | Outer bearing | .7496 - .7491 | |
| | Thread size | | 3/4 - 20 | |
| | Bearing type | | Tapered Roller | |

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (•) _____
 MODEL _____ 4-4-2

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

| | | |
|------------------------------------|------------------------------------|---------------|
| Provision for car leveling | None | |
| Provision for brake dip control | Counter Dive Design of Suspension | |
| Provision for acc. squat control | Rear Suspension Upper Control Arms | |
| Special provisions for car jacking | None | |
| Shock absorber front & rear | Type | Direct Acting |
| | Make | Delco |
| | Piston dia. | 1.00 |
| Other special features | Rear Stabilizer Bar | |

SUSPENSION – FRONT

| | | |
|----------------------|--|--|
| Type and description | Independent Coil Spring | |
| Spring | Type | Coil |
| | Material | SAE 9260 |
| | Size (coil design height & I.D. bar length x dia.) | 11.3 Design Height x 3.60 I.D. 109.0 Long x .629 Dia. |
| | Spring rate (lb. per in.) | 435 |
| | Rate at wheel (lb. per in.) | 158 |
| Stabilizer | Type (link, linkless, frameless) | Link .812 |
| | Material & bar diameter | SAE 1070 .937 Dia. |

SUSPENSION – REAR

| | | |
|--------------------------------|---|---|
| Type and description | Link Coil Spring | |
| Drive and torque taken through | Arms | |
| Spring | Type | Coil |
| | Material | SAE 9260 |
| | Size (length x width, coil design height & I.D.; bar length & dia.) | 7.62 Design Height x 5.50 I.D. 96.2 Long x .540 Dia. |
| | Spring rate (lb. per in.) | 122 |
| | Rate at wheel (lb. per in.) | 109.4 |
| | Mounting insulation type | Rubber |
| | If leaf | No. of leaves |
| | Shackle (comp. or tens.) | N.A. |
| Stabilizer | Type (link, linkless, frameless) | Linkless |
| | Material | SAE 1070 .875 Dia. |
| Track bar type | - - | |

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (*)

MODEL 4-4-2

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)

**Channel Section Side Rail
4 Cross Bar (Guard Beam Frame)**

BODY — MISCELLANEOUS INFORMATION

| | | |
|--|-------------|---|
| Drs. hinged (front, rr.) | Front doors | Front |
| | Rear doors | Front |
| Type of finish (lacquer, enamel, other) | | Lacquer |
| Hood counterbalanced (yes, no) | | Yes |
| Hood release control (internal, external) | | External |
| Vehicle Ident. No. location | | Instrument Panel (L.H.) |
| Engine No. location | | Left Front Engine Block |
| Theft protection - type | | Key Type Starting |
| Vent window control method (crank, friction pivot) | Front | Crank |
| | Rear | None |
| Seat cushion type | Front | Zig Zag |
| | Rear | Zig Zag |
| | 3rd seat | None |
| Seat back type | Front | Zig Zag |
| | Rear | Zig Zag |
| | 3rd seat | None |
| Windshield glass type (i.e., single curved - laminated plate) | | Single Curved - Laminated Plate |
| Side glass type (i.e., curved - tempered plate) | | Curved - Tempered Plate |
| Backlight glass type (i.e., compound curved - tempered plate, three piece) | | Compound Curved - Tempered Plate |
| Windshield glass exposed surface area | | 1330.1 |
| Side glass exposed surface area | | 1545.3 |
| Backlight glass exposed surface area | | 1105.5 |
| Total glass exposed surface area | | 3980.9 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (a)

MODEL _____ 4=4=2

CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

| | | |
|--|-----------------------|------------------------------------|
| Power windows | Side windows | Optional |
| | Vent windows | N.A. |
| | Backlight or tailgate | N.A. |
| Power seats (specify type as well as availability) | | Optional |
| Reclining front seat back (R-L or both) | | Optional - Right Only |
| Front seat head restrainer (R-L or both) | | Both |
| Radios (specify type as well as availability) | | Deluxe & AM-FM Optional |
| Rear seat speaker | | Optional |
| Power antenna | | Optional |
| Clock | | Optional |
| Air conditioner (specify type and availability) | | Frigidaire |
| Speed warning device | | Optional |
| Speed control device | | Optional |
| Ignition lock lamp | | N.A. |
| Dome lamp | | Standard |
| Glove compartment lamp | | Optional |
| Luggage compartment lamp | | Optional |
| Underhood lamp | | N.A. |
| Courtesy lamp | | Optional (Standard on Convertible) |
| Map lamp | | Optional (Standard on Convertible) |
| Auto. trans. quad. lamp | | Optional |
| Cornering light lamp | | N.A. |
| Dual Brake Warning | | Standard |
| Anti Theft Warning | | Standard |
| Hazzard Flashed | | Standard |
| | | |
| | | |
| | | |

LAMP HEIGHT AND SPACING

| | | | |
|---|-------------|-----------|-------|
| Height above ground to center of bulb or marker | Headlamp | Highest * | 24.90 |
| | | Lowest | 24.80 |
| | Tail | Highest | 23.85 |
| | | Lowest | 23.79 |
| | Sidemarker | Front | 72.20 |
| | | Rear | 25.06 |
| Distance from C/L of car to center of bulb | Headlamp | Inside | 16.50 |
| | | Outside * | 30.18 |
| | Tail | Inside | 19.36 |
| | | Outside | 28.36 |
| | Directional | Front | 32.02 |
| | | Rear | ∞ ∞ |

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

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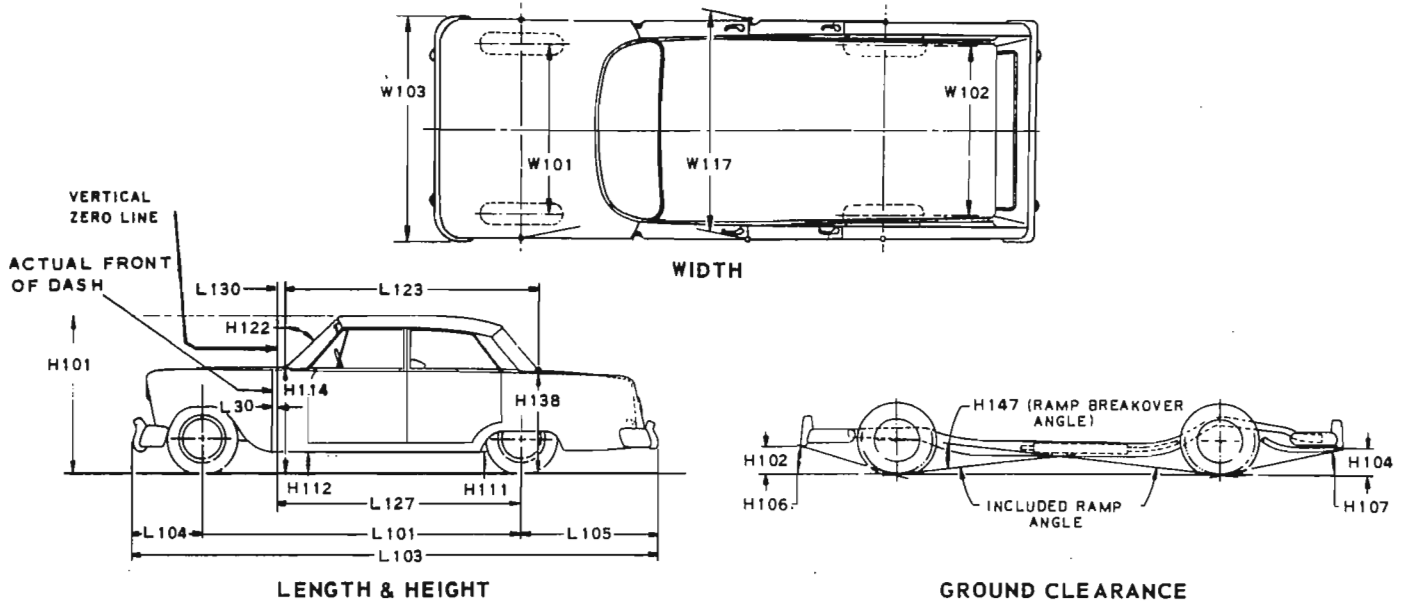
WEIGHTS

| Model | CURB WEIGHT - POUNDS | | | % PASS. WEIGHT DISTRIBUTION | | | | SHIPPING WEIGHT |
|--|----------------------|------|-------|-----------------------------|------|---------------|------|-----------------|
| | Front | Rear | Total | Pass. In Front | | Pass. In Rear | | |
| | | | | Front | Rear | Front | Rear | |
| 34467 | | | 3738 | | | | | 3580 |
| 34477 | | | 3660 | | | | | 3502 |
| 34487 | | | 3670 | | | | | 3512 |
| | | | | | | | | |
| | | | | | | | | |
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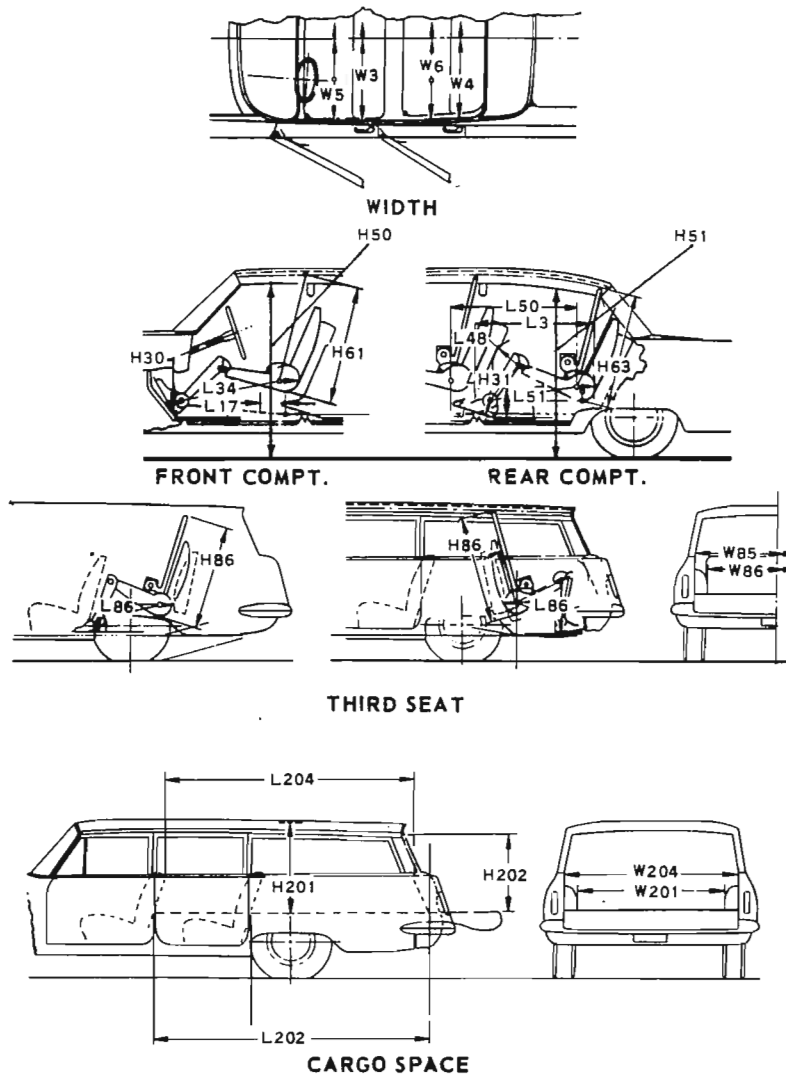
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle. This dimension may be determined by calculation (see Design Standard DD 0.00 - 108) or graphically for reporting purposes.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 - 105.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouses at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

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