

Automobile Manufacturers Association

Consolidated Specification Questionnaire

For 1941 Models

Mechanical Details

Make of Car Oldsmobile Model Custom Cruiser "Six"

Name of Maker Olds Motor Works Address Lansing, Michigan

Date B-30-40

NOTE: (1) Subject to Correction: It is understood that the following data are subject to correction in the case of cars not in production at the time this compilation was requested.

(2) Only standard equipment included in Factory Delivered price should be included in this questionnaire.

PERFORMANCE

Car Weight per cubic inch piston displacement 16.58

Horsepower per cubic inch 420

Car Weight per horsepower 39.45

(A) Engine Revolutions per mile Direct 3152

Overdrive None

(B) Piston Displacement per mile = $A \times \text{Piston displacement}$ 750,000

Direct 750,000

Overdrive None

Piston Displacement per mile per pound = $\frac{B}{\text{Car Weight}}$

Direct 190

Overdrive None

Car Weight per square inch of brake lining area 23.15

(NOTE: Car Weight, for performance figure, is shipping weight for five-passenger, four-door sedan, plus 500 pounds for liquids and passengers.)

ENGINE

No. of cylinders 6

Valve arrangement L-Head

Bore 3 1/2" Stroke 4 1/8"

Cylinder head, cast iron or aluminum Cast Iron

Piston displacement 238.1

Taxable horsepower 29.4

Maximum brake horsepower at R.P.M. 100 @ 3400

Maximum torque (lbs.-ft.) at R.P.M. 190 @ 1400

Compression Ratio—

Standard 6.1:1 Optional 5.74:1

Standard compression pressure—pounds—

At cranking speed 115#

At what R.P.M. 100#

PISTONS and RINGS

Piston

Make Own

Material Aluminum Alloy

PISTONS and RINGS (cont'd)

Features—split skirt, invar strut, oval, tin-plated, aluminum oxide finish, auto-thermic, V-Bridge, etc. Slot Oxide Fin.

Weight—ounces—without rings, pin or bushing 17.37

Length 4 1/32"

Clearance—

Top Land 0.023" to 0.028"

Skirt 0.005" to 0.001"

Piston ring groove depth—

Oil 11/64" Compression 3/16"

No. of oil rings used per piston 2

Width of oil rings 3/16"

Width of oil ring gap 0.009" - 0.014"

No. of compression rings used per piston 2

Width of compression rings 3/32"

Width of compression ring gap 0.008" - 0.018"

Maximum wall thickness of oil rings 0.155"

Maximum wall thickness of compression rings 0.172"

RODS and PINS

Wristpin—

Material G.M. X-1314

Length 3 5/32" Diameter 55/64"

Locked in rod, piston or floating Locked in Piston

Clearance in piston 0.0002" to 0.0001"

Clearance in rod 0.0003" to 0.0006"

Hole finish—reamed, diamond bored, broached or ground Diam. Bore

Connecting rod—

Length—center to center 7 13/16"

Material G.M. X-1335

Weight—ounces 28.6

Crankpin journal—

Diameter 2 1/8" Length 1 1/4"

Lower bearing—

Material Steel Backed Babbitt Lined

Clearance 0.0005" to 0.0025"

End play 0.0055" to 0.105"

Shim—solid, laminated or none None

Spun or separate Separate

Rods and pistons removed from above or below Above

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CRANKSHAFT

Material G.M. 1045 DF Steel
 Vibration dampener used—yes or no Yes
 Type Spring
 Crankshaft counterweights used, number of 4
 Which main bearing takes thrust Front
 Crankshaft end play .004" - .008"
 Main bearing—
 Type: Cast-in or Slip-in Yes
 If slip-in: Removable from below Yes
 Necessary to align ream. No
 Material Steel Backed Babbitt Lined
 Clearance .0005" to .003"
 Shim—solid, laminated or none None
 Main bearing journal diameter x length—
 No. 1. 2 31/64" x 1 17/32"
 No. 2. 2 35/64" x 1 3/8"
 No. 3. 2 43/64" x 1 3/8"
 No. 4. 2 11/16" x 1 5/8"
 No. 5.
 No. 6.
 No. 7.
 No. 8.
 No. 9.
 Crankshaft gear or sprocket—
 Make Whitney
 Material G.M.C. X-1314
CAMSHAFT
 Camshaft gear or sprocket—
 Make Whitney
 Material G.M. #12M Cast Iron
 Timing chain—
 Make Whitney
 Number of links 47
 Width 1"
 Pitch .500"
 Adjustment—none, automatic or manual None

VALVES

INTAKE VALVE—

Make Various
 Material G.M. #3140
 Overall length 5 51/64"
 Actual overall diameter of head 1 9/16"
 Angle of seat 30°
 Is valve seat an insert? No
 Stem diameter .3420"
 Stem to guide clearance .00175" to .00375"

VALVES (cont'd)

Lift .300"
 Spring pressure and length—
 Outer—
 With valve closed—lb. 50 1/2 ins. 2 1/4"
 With valve open—lb. 95 1/2 ins. 1 15/16"
 Length out of engine—ins. 2 19/32"
 Inner—
 With valve closed—lb. ins.
 With valve open—lb. ins.
 Length out of engine—ins.

EXHAUST VALVE—

Make Various
 Material Heat Resistant Alloy Steel
 Overall length 5 51/64"
 Actual overall diameter of head 1 27/64"
 Angle of seat 45°
 Is valve seat an insert? No Material
 Stem diameter .3414"
 Stem to guide clearance .00245" to .00425"
 Lift .300"
 Spring pressure and length—
 Outer—
 With valve closed—lb. 50 1/2 ins. 2 1/4"
 With valve open—lb. 95 1/2 ins. 1 15/16"
 Length out of engine—ins. 2 19/32"
 Inner—
 With valve closed—lb. ins.
 With valve open—lb. ins.
 Length out of engine—ins.

Operating tappet clearance (hot or cold)—intake .008"
 Tappet clearance for valve timing—intake .0125"
 Operating tappet clearance (hot or cold)—exhaust .011"
 Tappet clearance for valve timing—exhaust .0155"
 Hydraulic valve lifters—yes or no No
 Valve timing—
 Intake opens 5 degrees BUDC piston travel .010 inches
 Intake closes 45 " ALDC " " 3.670 inches
 Exhaust opens 45 " BLDC " " 3.648 inches
 Exhaust closes 5 " AUDC " " .010 inches
 Valve Timing Marks on Flywheel, Vibration Damper, None Flywheel

LUBRICATION

Lubricating system type—pressure or splash Pressure
 Oil pressure to—
 Main bearings—yes or no Yes
 Connecting rods—yes or no Yes

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LUBRICATION (cont'd)

Wristpins—yes or no Yes
 Camshaft bearings—yes or no Yes
 Timing gear or chain lubrication—position or splash Positive
 Oil pump type Gear
 Oil grade recommended—SAE viscosity and temperature range—
 See Lubrication Chart
 Normal oil pressure—lbs. at M.P.H. 30
 Pressure at which relief valve opens 30
 Capacity of oil reservoir—quarts, dry 5 refill 5
 Oil pressure gauge make A.C.
 Oil reservoir level gauge type Dip Stick
 Floating type oil intake—yes or no No
 External oil filter make None
 Oil cooler make None
 Chassis lubrication—Make Various

FUEL

Gasoline tank—capacity 19 Gal.
 Fuel feed—
 Type—vacuum tank, electric pump, gravity vacuum
 pump or camshaft pump Camshaft Pump
 Make A.C. Model 1537358
 Carburetor—
 Make Carter Model WA-1
 Size 1 1/2"
 Type—
 Up or down draft Down Single or dual Single
 Intake manifold heat control—manual, automatic or none Automatic
 Automatic choke, make Carter Model -
 Air cleaner—intake silencer make A.C.
 Heavy Duty type—Make - Model
 Muffler make Various
 Tail pipe diameter 1 3/4"

COOLING

Water pump—
 Type Sealed Centrifugal
 Drive V-Belt
 Is pump equipped with packing nut No
 Water circulation thermostat make Harrison
 Pressure relief valve yes or no No
 By-pass for recirculation—yes or no Yes
 Radiator shutter—Make None

COOLING (cont'd)

Radiator core—
 Type Vee Cell
 Make Harrison
 Cooling system—capacity, quarts 18
 Water jackets full length of cylinders—yes or no Yes
 Water all around cylinder—yes or no Yes
 Lower radiator hose—
 Inside diameter 1 3/4" Length 13" Approx.
 Upper radiator hose—
 Inside diameter 1 1/2" Length 8"
 Fan belt—
 Make Various
 Angle of vee 32°
 Length, inside 44 11/16" Width, maximum 13/16"
 Fan—
 Make Own No. of Blades 4

IGNITION

Ignition unit—
 Make Delco Remy Model 647-F
 Manual or octane selector, degrees advance None, retard
 Maximum automatic advance crankshaft, degrees 26°
 at 4000 engine R.P.M.
 Inches of Vacuum Necessary to operate 5" Hg.
 Vacuum Advance (Plus or minus 1 inch)
 Maximum Vacuum advance crankshaft, degrees 34°
 Breaker gap020" Breaker arm tension 17-21 oz.
 Cam angle
 Timing—Breaker points open 0 degrees crankshaft rotation
 or TDC inches piston travel (after or before) top center
 with octane selector in the Normal position.
 Timing mark location—flywheel, vibration dampener or none Flywheel
 Firing order 1-5-3-6-2-4
 Amperage draw of ignition coil—
 With engine stopped 4.5
 With engine idling 2.0
 Ignition lock make Delco Remy
 Spark plug—
 Thread—10 m.m., 14 m.m. or 18 m.m. 14 M.M.
 Make A.C. Model 44
 Gap040"
 Ignition cable make G.M.

BATTERY

Make Delco Remy Model 15E2
 Capacity—ampere hours 100 @ 20 hour rate
 Number of plates per cell 15
 Bench charging rate—
 Start 12.5 Finish 4.5
 Which battery terminal is grounded Negative
 Location of battery Under hood

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STARTING MOTOR

Make Delco Remy Model 1107034

Normal engine cranking speed Summer - 100 R.P.M.

Brush spring tension 24-28 oz.

Lock test—

Amperage draw 475.0

Volts 3.0

Torque in pounds feet 12

No load test—

Amperage draw 65

Volts 5 R.P.M. 5000

Type of drive—Bendix or sliding gear with overrunning clutch Manual Gear

Starting device—Solenoid, manual, etc. Manual Gear

Starter operation—check items required to start engine

- 1. Turn on Ignition X
- 2. Depress starter pedal X
- 3. Depress accelerator pedal
- 4. Depress clutch pedal X
- 5. Operate button on dash
- 6. Pull out throttle

Starting motor pinion meshes front or rear. Front

No. of teeth in flywheel 145

Face width of flywheel teeth 1/2"

Gear ratio between starter armature and flywheel 16.11:1

GENERATOR

Make Delco Remy Model 1102664

Type—third brush, shunt, etc. Shunt

Brush spring tension 24-28 oz.

Current regulator, voltage regulator or current and voltage control unit Current & Voltage

Maximum controlled charging rate

Temperature 150°

Amperes 33

Voltage 7.75

R.P.M. 2400

Cutout relay—

Voltage at closing 6.5

Amperes to open, reverse current -2

Air gap020"

Voltage regulator—

Volts 7.3

Temperature 150°

Air gap080"

Current regulator—

Amperes 33

Temperature 150°

Air gap080"

Car speed for maximum charging rate. 21 M.P.H. up

Ammeter or charge indicator make A.C.

LAMPS

Lighting switch make Delco Remy

Are tail and dash lights in series. No

Headlight—

Make Guide Lamp

Location—in fender, in catwalk, on radiator shell. In Fender

Candlepower of bulb 35-45 Watts

Type of bulb Sealed Beam

Parking or fender light make Guide

Tail and stop light make Guide

Horn—

Type—vibrator or motor. Vibrator.. No. used. 2

Make Delco Remy

Amperage draw of each. High Note 18
Low Note 20

CLUTCH

Make Borg & Beck

Semi-centrifugal No

Power operated unit—make None

Vibration insulation or neutralizer—fabric,
rubber blocks or springs. Springs

No. of clutch driving discs. 1

No. of clutch driven discs. 1

Clutch facing—

Material—woven or moulded asbestos, cork. Woven-Moulded

Inside diameter 6"

Outside diameter 9 1/4"

Thickness125"

No. required 2

TRANSMISSION

Transmission—

Make Own Model

No. of forward speeds. 3

Shift lever location—dash, steering column, floor. Steering Col.

If steering column gearshift—

Are gears meshed by rod linkage or cable. Rod

Are gears selected by rod linkage or cable. Rod

See auxiliary sheet 4-A, attached, for complete information on Oldsmobile's Hydra-Matic Drive. This unit is available for all models, car prices being increased accordingly. The information listed herein, under Clutch and Transmission applies to the 1941 design Synchro-Mesh Transmission, standard equipment for all series cars.

HYDRA-MATIC DRIVE

SPECIFICATIONS

Type - - - - - Liquid fly-wheel combin-
ed with a fully auto-
matic transmission

Location - - - - - Unit with engine

Type of Gearing - - - - - Planetary

Control Location - - - - - Steering Column

Number of forward speeds - 4

Transmission Ratios:

First - - - - - 3.658 to 1

Second - - - - - 2.53 to 1

Third - - - - - 1.44 to 1

Fourth - - - - - 1 to 1

Reverse - - - - - 4.30 to 1

Transmission Oil Capacity - 10 Quarts

Clutch - - - - - None

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TRANSMISSION (Cont'd)

Transmission ratio—
 In overdrive In second 1,660:1
 In low 2.667 In reverse 3,022:1
 Constant mesh gears on second Yes
 Spur or helical gears—
 For second speed Helical
 For first speed Helical
 For reverse speed Helical
 Synchronous meshing second and third gears Yes
 Transmission oil—
 Capacity—pints 2
 Grade recommended—S.A.E. viscosity
 Summer 90 Winter 90
 Universal joints—
 Make Mechanics
 Number used 2
 Type—metal with anti-friction bearing or metal with plain bearing Metal with Anti-Friction Brg.
 Lubricated with Permanently
 Drive taken through springs, torque arm, torque tube or radius rods Stabilizing Arms
 Torque taken through springs, torque arm, torque tube or radius rods Stabilizing Arms

REAR AXLE

Rear axle—
 Make Own Model
 Type—semi, full or three-quarter floating Semi-Floating
 Minimum road clearance under center of rear axle—tires inflated 8.3/16"
 Rear axle oil—
 Capacity—pints 2 1/2
 Grade and type recommended—S.A.E. viscosity
 Summer See Lub. Chart Winter
 Type of gearing—spiral bevel, worm, hypoid Hypoid
 Gear ratio—standard 5-passenger 4-door sedan 4.3:1
 Optional gear ratios 4.55:1
 Number of teeth—
 In ring gear 43 In pinion 10
 How is pinion adjusted—screw or shims Shims
 How is pinion bearing adjusted—screw or shims None
 Are pinion bearings carried in sleeve No
 Backlash between pinion and ring gear004" to .006"
 Are pinion bearings preloaded Yes
 How is pinion bearing preload obtained In Manufacture
 Are differential bearings preloaded Yes
 How is differential bearing preload obtained Adjusting Nut

TIRES and WHEELS

Tires—
 Make Various
 Size 15" x 7.00" No. of plies 4
 Inflation pressure—Front 24 Rear 24
 Rim—Diameter 15" Width 5.50" F
 Wheels—
 Type Steel
 Make Various

SPRINGS

FRONT SPRING—

Independent or conventional suspension Independent
 Type—coil, semi-elliptic or transverse Coil
 Make Own
 Material G.M. 9260-M Spring Steel
 Torsional stabilizer at front Yes
 If leaf—
 Length Width
 Number of leaves—5-passenger, 4-door sedan
 Are radius rods used on axle
 Shackled front or rear
 If coil—
 Free length 14 11/16"
 Length under curb weight 9 1/2"
 Rate for above 310 pounds per inch

REAR SPRING—

Independent or conventional suspension Conventional
 Type—coil, semi-elliptic or transverse Coil
 Make Own
 Material G.M. 9260-M Spring Steel
 Torsional stabilizer at rear Yes
 If leaf—
 Length Width
 Number of leaves—5-passenger, 4-door sedan
 Spring leaves lubricated with
 Spring cover make
 Spring shackles—
 Front—Type Make
 Rear—Type Make
 Spring bolts—
 Type
 If coil—
 Free length 18 15/32"
 Length under curb weight 10"

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SPRINGS (cont'd)

Rate for above 110 pounds per inch
 Shock absorbers—
 Make Delco
 Type, one way with lever, two way with lever, or direct acting
 Front Two Way with Lever
 Rear Two Way with Lever
 Fluid capacity—front 134-140 CC rear 154-163 CC

STEERING

Steering gear—
 Type Worm & Roller
 Make ... Saginaw Model 420-D-119
 Ratio 12:1
 Lubricant recommended ... See Chart
 Steering wheel diameter 18"
 Drag link longitudinal or transverse Transverse
 Tie rod—one or two 2
 Is intermediate steering arm used No
 Number of turns of steering wheel for full left
 to right swing of wheels 4 1/2
 Car turning radius—feet—right, left or both 19' 9"
 Caster—degrees 0° to -3/4°
 Camber—degrees or -1/4° inches to -3/4°
 Toe-in—inches 1/16" to 1/8"
 Crosswise inclination of kingpin—degrees 4° 51' 10"
 Front axle—
 Make None Model
 Section type—I-beams, tubular or none None
 End type—Elliott or reverse Elliott Reverse Elliott
 Minimum road clearance—tires inflated 8 3/16"

BRAKES (cont'd)

Drum—
 Material Cast Iron Diameter 11"
 Lining—
 Length per wheel 21 5/16"
 Width 2" Thickness 3/16"
 Clearance—*toe*015" *heel*015"
 Total foot braking area 170.5
 Percent braking power on rear wheels 45
 Hand lever operates on—*transmission, separate rear brakes, rear service brakes or all four service brakes* Rear Service
 Hand brake, if separate from service brake—
 Internal or external Internal
 Drum diameter 11"
 Lining—
 Length per drum 21 5/16"
 Width 2" Thickness 3/16"
 Clearance015"

FRAME

Frame—
 Depth—*maximum* 6 1/4"
 Thickness—*maximum* 1/8"
 Flange width—*maximum* 2 1/4"
 Wheelbase 125"
 Tread—
 Front 58"
 Rear 61 1/2"
 Weight of standard 5-passenger four-door sedan—
 Shipping .. Not Available
 Curb Not Available
 Price of standard 5-passenger, 4-door sedan .. Not Available
 First serial number, this series 96-1001
 Serial number location... Upper Left Side on
 Front Face of Dash
 Overall length of car—
 With bumpers and bumper guards 213"

BRAKES

Foot brakes—
 Make Various
 Type of mechanism, hydraulic or mechanical Hydraulic
 If vacuum booster is standard, state make None
 Brake lining moulded, semi-moulded or woven—
 Primary shoe Moulded
 Secondary shoe Moulded

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NOTE—In giving bearing dimensions, kindly use the following order: inside diameter, outside diameter and width. Where cup and cone bearings are used, give both cup and cone numbers.

BEARINGS

Water pump bearing—
 Make or type .. New Departure D.R. Ball...
 Size or number 954210

Fan bearing—
 Make or type None

Starting motor commutator end bearing—
 Make or type Plain

Starting motor drive end bearing—
 Make or type None

Starting motor outboard bearing—
 Make or type Bronze Graphite

Generator commutator end bearing—
 Make or type Plain

Generator drive end bearing—
 Make or type Ball Bearing

Super-charger—
 Make or type None

Clutch throwout bearing—
 Make or type Graphite

Transmission main drive gear front pilot bearing—
 Make or type Durex

Transmission main drive gear rear bearing—
 Make or type .. New Departure Ball

Transmission reverse idler bearing—
 Make or type Bronze Bushing

Transmission main shaft front pilot bearing—
 Make or type Roller

Transmission main shaft rear bearing—
 Make or type .. New Departure Ball

Transmission countershaft front bearing—
 Make or type Needle

Transmission countershaft rear bearing—
 Make or type Needle

Overdrive shaft rear bearing—
 Make or type None

BEARINGS (cont'd)

Overdrive shaft pilot bearing—
 Make or type None

Main shaft extension bearing—
 Make or type Steel Backed Bronze

Rear axle pinion shaft front bearing—
 Make or type .. New Departure D.R. Ball...
 Size or number 905306

Rear axle pinion shaft rear bearing—
 Make or type Hyatt Roller

Differential right bearing—
 Make or type Hyatt or Bower

Differential left bearing—
 Make or type Hyatt or Bower

Rear wheel inner bearing—
 Make or type None

Rear wheel outer bearing—
 Make or type New Departure Ball

Front wheel inner bearing—
 Make or type New Departure Ball

Front wheel outer bearing—
 Make or type New Departure Ball

Kingpin upper bearing—
 Make or type Steel Backed 4035 M. Bronze

Kingpin lower bearing—
 Make or type Steel Backed 4035 M. Bronze

Kingpin thrust bearing—
 Make or type New Departure Ball

Front spring—Bolt—
 Bushing size None

Shackles—
 Upper end None

Rear spring—Bolt—
 Bushing size None

Shackles—
 Upper end None

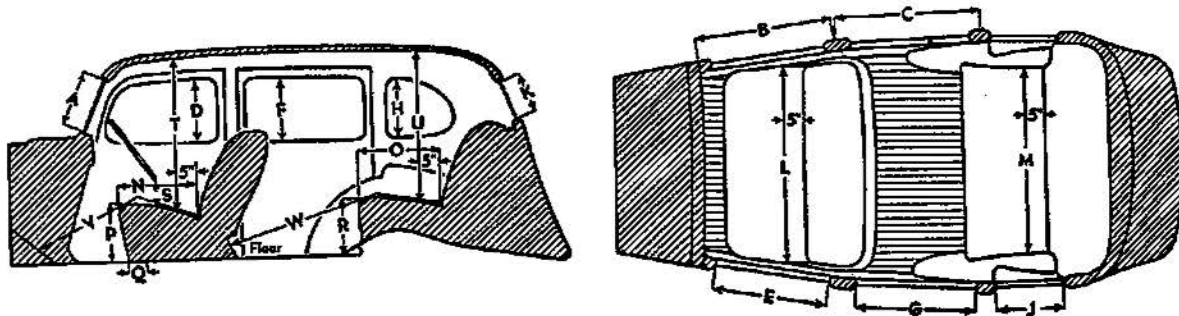
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NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.
 (2) Enter on top line your own model name, or series mark corresponding to Standard, DeLuxe or Custom.

EQUIPMENT	Models		
	Standard	DeLuxe	Custom
Catalog Designation of Model	Custom Cruiser	"Six"	
Lacquer make	Various		
Body finish, lacquer or synthetic enamel	Lacquer		
Fender finish, lacquer or synthetic enamel	"		
Hardware make	Termstedt		
Speedometer make	A.C.		
Gasoline gauge make	A.C.		
Thermometer make	A.C.		
Car lock make	Various		
Car lock operates on ignition or ignition and steering	Ignition		
Clock make mechanical or electrical	Electric		
Cigar lighter make	None		
Safety glass make	L.O.F.		
Safety glass type, laminated or tempered	Laminated		
In windshield	"		
In side windows	"		
In rear window	Tempered		
Bumper make	Own		
Bumper guard make	Guide		
Car heater make Type	None		
Direction signal make	None		
Front—yes or no Rear—yes or no	None		
No. of tail lights included	2		
No. of visors included	2		
No. of horns included	2		
No. of windshield wipers included	2		
No. of spare tires included	1		

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BODY DIMENSIONS (Five-Passenger, Four-Door Sedan)



EXTERIOR

Overall height, road to roof with no load	67 1/16"
Minimum height of floor in front compartment, no load..... 5 Pass. Load	14 1/8"
Minimum height of floor in rear compartment, no load 5 Pass. Load	14 1/2"
Distance between hinge centers, front door.....	18 1/4"
Distance between hinge centers, rear door.....	16 7/16"
Windshield opening height (A)	15 3/4"
Windshield opening width, to center strip if divided.....	25 13/16"
Width of front door, at handle (B).....	39 7/8"
Width of rear door, at handle (C)	35 1/8"
Height of front door, maximum	46 5/32"
Height of rear door, maximum	46 3/16"
Height of window opening in front door, maximum (D).....	13"
Width of window opening in front door, maximum (E)	31 1/16"
Height of window opening in rear door, maximum (F).....	13"
Width of window opening in rear door, maximum (G).....	31"
Height of rear quarter window opening, maximum (H).....	None
Width of rear quarter window opening, maximum (J)	None
Height of rear window opening, maximum (K).....	12 3/8"
Width of rear window opening, maximum (if divided list each).....	19 1/4"

INTERIOR

All interior body dimensions taken with front seat in its rear position

Width of front seat cushion, measured 5 inches from back (L).....	55 1/4"
Width of rear seat cushion, measured 5 inches from back (M).....	52"
Depth of front seat cushion (N).....	18 1/2"
Depth of rear seat cushion (O).....	18"
Height of front seat cushion (P)	13 1/4"
Front seat horizontal adjustment, inches (Q)	4 1/2"
Front seat vertical adjustment, inches	1/2"
Height of rear seat cushion (R)	13"
Vertical distance between steering wheel and seat cushion (S)	6 1/8"
Head room at front seat, measured 5 inches from back (T).....	35 7/8"
Head room at rear seat, measured 5 inches from back (U).....	35 3/8"
Leg room in front seat, measured from 6 inches up on toe board (V)	42 1/2"
Leg room in rear seat, measured from center of foot rest (W).....	39 3/8"
Width of left front pillar on diagonal with door closed.....	3 1/4"

