

Automobile Manufacturers Association

Consolidated Specification Questionnaire

For 1949 Models

Mechanical Details

Make of Car.....DeSoto.....ModelS-13.....

Name of Maker...Chrysler Corp....DeSoto DivisionAddressDetroit 31, Michigan.....

Date.....

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.

ENGINE

No. of cylinders6.....
 Valve arrangement"I" Head.....
 Bore3-7/16"..... Stroke4-1/4".....
 Cylinder head, cast iron or aluminumCast Iron.....
 Cylinder sleeve, Yes.....No.....
 Piston displacement236.7 cu. in......
 Taxable horsepower28.36.....
 Horsepower rating—

To be based on actual performance corrected to 60°F. at sea level (barometric pressure 29.92 inches of mercury) with standard fuel. (Octane No. of fuel.....75.....)

—With Bare Engine—**

Maximum brake hp.112..... at3500..... R.P.M.

—With Standard Accessories—*

Maximum brake hp. at R.P.M.

*Those standard accessories needed for normal operation including fan, generator, starter, air cleaner, muffler, manifolds, fuel and water pumps.

Maximum torque—**

With bare engine, lb. ft. ...195..... at...1600..... R.P.M.

With standard accessories,* lb. ft..... at..... R.P.M.

Compression Ratio—

Standard7.0 to 1..... Optional.....

Standard compression pressure —pounds—

At cranking speed120 to 150.....

At what R.P.M.150.....

PISTONS and RINGS

Piston
 Make
 MaterialAluminum alloy.....
 Features—split skirt, invar strut, oval, tin-plated, aluminum oxide finish, auto-thermic, V-Bridge, porous chrome plate, etc. U-slot, cam ground, tin-plated.....
 Weight—ounces—without rings, pin or bushing...18.5 oz......
 Length3-7/8".....
 Clearance—
 Top land to
 Skirt, ~~top~~3/4"..... from bottom....0002......0012".....

** Bare engine includes generator, water pump, carburetor air cleaner, manifolds, fuel pump, manual spark advance, and manifold heat off.

PISTONS and RINGS (cont'd)

Piston ring groove depth—
 Oil178"..... Compression1765".....
 No. of oil rings used per pistonTwo.....
 Width of oil rings5/32".....
 Width of oil ring gap007"..... to015".....
 No. of compression rings used per piston...Two.....
 Width of compression rings3/32".....
 Width of compression ring gap007"..... to015".....
 Maximum wall thickness of oil rings.....150".....
 Maximum wall thickness of compression rings...169".....
 Are ring expanders used, Yes..... No.....X.....

RODS and PINS

Wristpin—
 MaterialHigh Manganese Steel.....
 Length2-7/8"..... Diameter55/64".....
 Locked in rod, piston or floatingFloating.....
 Clearance in piston0000..... to+.0005.....
 Clearance in rod+.0001"..... to+.0004".....

Connecting rod—

Length—center to center8".....

Material High Manganese forging steel.....

Weight—ounces 34.1..... (with bolts, less brgs.)

Crankpin journal—

Diameter2-1/8"..... Length1-7/32".....

Lower bearing—

MaterialThin rabbitt on steel.....

Clearance0005"..... to0015".....

End play003"..... to007".....

Shim—solid, laminated or noneNone.....

Spun or separateSeparate.....

Rods and pistons removed from above or below...above.....

CRANKSHAFT

Material ...Drop forged steel.....

Weight—stripped

Vibration dampener used—yes or no.....Yes.....

Type Damped dynamic vibration absorber.....

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CRANKSHAFT (cont'd)

Crankshaft counterweights used, number of 7
 Which main bearing takes thrust Rear
 Crankshaft end play003" to .007"
 Main bearing—
 Type: Cast-in or Slip-In X
 If slip-in: Removable from below Yes
 Necessary to align ream No
 Material Thin babbit on steel
 Clearance0005" to .0015"
 Shim—solid, laminated or none None
 Main bearing journal diameter x length—
 No. 1 2-1/2" x 1-5/16"
 No. 2 2-1/2" x 1-5/16"
 No. 3 2-1/2" x 1-5/16"
 No. 4 2-1/2" x 1-7/8"
 No. 5
 No. 6
 No. 7
 No. 8
 No. 9

Crankshaft gear or sprocket—

Make
 Material High Manganese Steel

CAMSHAFT

Camshaft gear or sprocket—

Make
 Material Cast Iron

Timing chain—

Make
 Number of links 48
 Width 1"
 Pitch500"

VALVES

INTAKE VALVE—

Make
 Material Various alloy steels
 Overall length 4-25/32"
 Actual overall diameter of head 1-23/32"
 Minimum port diameter 1-7/16" average
 Angle of seat 45°
 Is valve seat an insert? No
 Stem diameter3405" to .3415"
 Stem to guide clearance001" to .003"
 Lift 3/8"
 Spring pressure and length—
 Outer—

VALVES (cont'd)

With valve closed—lb. 40 to 45 ins. 1-3/4"
 With valve open—lb. 107 to 115 ins. 1-3/8"
 Length out of engine—ins. 2"
 Inner—
 With valve closed—lb. ins.
 With valve open—lb. ins.
 Length out of engine—ins.

EXHAUST VALVE—

Make
 Material Silchrome
 Overall length 4-25/32"
 Actual overall diameter of head 1-17/32"
 Minimum port diameter 1-3/8"
 Angle of seat 45°
 Is valve seat an insert? Yes Material Special alloy
 Stem diameter3395" to .3405"
 Stem to guide clearance002" to .004"
 Lift 3/8"
 Spring pressure and length—
 Outer—
 With valve closed—lb. 40 to 45 ins. 1-3/4"
 With valve open—lb. 107 to 115 ins. 1-3/8"
 Length out of engine—ins. 2"
 Inner—
 With valve closed—lb. ins.
 With valve open—lb. ins.
 Length out of engine—ins.

Operating tappet clearance (hot ~~xxxx~~)—intake008"
 Tappet clearance for valve timing—intake014"
 Operating tappet clearance (hot ~~xxxx~~)—exhaust010"
 Tappet clearance for valve timing—exhaust014"
 Hydraulic valve lifters—yes or no No

Valve timing—

Intake opens 12° degrees BUDC piston travel inches
 Intake closes 44° " ALDC " " inches
 Exhaust opens 50° " BLDC " " inches
 Exhaust closes 6° " AUDC " " inches

Valve Timing Marks—~~XX~~ ~~XXXX~~ Vibration Damper, ~~None~~

LUBRICATION

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

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LUBRICATION (cont'd)

Timing gear or chain lubrication—*positive or splash*.....Positive
 Oil pump type.....Rotor
 Oil grade recommended—*SAE viscosity and temperature range—*
 Not lower than +32°F.....SAE 30
 As low as +10°F.....No 20W
 As low as -10°F.....No 10W
 Below -10°F.....No 10W + 10% Kero.
 Normal oil pressure—*lbs. at M.P.H.* 45 to 60 @ 5 mph.
 Pressure at which relief valve opens.....40 to 45 lb.
 Capacity of oil reservoir—*quarts, dry*.....refill.....5
 Oil pressure gauge make.....
 Oil reservoir level gauge type.....Bayonet
 Floating type oil intake—*yes or no*.....Yes
 External oil filter make.....Purulator
 Other type of oil cleaner.....
 Oil cooler make.....
 Chassis lubrication—*Make*.....

FUEL

Gasoline tank—*capacity*.....17 gal.
 Fuel feed—
 Type—*vacuum tank, electric pump, gravity vacuum pump or camshaft pump*.....Camshaft pump
 Make.....Model.....
 Carburetor—
 Make Carter (Ball & Ball) Model.....
 Number used.....One
 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.....Model.....
 Air cleaner—*intake silencer make*.....
 Type—*dry felt; oil bath; oil coated fibre*.....Oil bath
 Heavy Duty type—*Make*.....Model.....
 Muffler make.....
 Tail pipe diameter.....1-3/4"

COOLING

Water pump—
 Type.....Centrifugal
 Drive.....Vee belt
 Is pump equipped with packing nut.....No
 Water circulation thermostat make.....
 Pressure relief valve—*yes or no*.....No
 By-pass for recirculation—*yes or no*.....Yes
 Radiator core—
 Type.....Cellular
 Make.....

COOLING (cont'd)

Cooling system—*capacity, quarts*.....17
 Water jackets full length of cylinders—*yes or no*.....Yes
 Water all around cylinder—*yes or no*.....No
 Lower radiator hose— 2 Pieces
 Inside diameter.....1-1/2".....Length.....2-1/2" & 6-1/2"
 Upper radiator hose—
 Inside diameter.....1-3/4".....Length.....Curved
 Fan belt—
 Make.....
 Angle of vee.....38° to 42°
 Length, outside.....48-9/16".....Width, maximum.....3/4"
 Fan—
 Make.....No. of Blades.....4

IGNITION

Ignition units—
 Make.....Auto-Lite.....Model.....IAP-4102C-1
 Manual or octane selector, *degrees advance*.....retard
 Maximum centrifugal advance crankshaft *degrees* 18° to 22°
 at.....2850.....engine R.P.M.
 Inches of Mercury Necessary to operate Vacuum Advance (Plus or minus 1 inch).....4"
 Maximum Vacuum advance crankshaft, *degrees* 16° to 20° @ 15"
 Breaker gap......020".....Breaker arm tension.....17-20.....oz.
 Cam angle.....34-1/2° to 38°.....deg.
 Timing—*Breaker points open*.....2.....degrees crankshaft rotation
 or......002 inches piston travel (after ~~1/2~~ top center
~~with valve timing on the existing condition~~)
 Timing mark location—~~spark vibration dampener~~
 Firing order.....1-5-3-6-2-4
 Amperage draw of ignition coil—
 With engine stopped.....5
 With engine idling.....2.25
 Spark plug—
 Thread—10 m.m., 14 m.m. or 18 m.m.....14 mm.
 Make.....Auto-Lite.....Model.....Resistor (AR5)
 Gap......038"
 Ignition cable make.....

BATTERY

Make Willard or Auto-Lite Model.....
 Capacity—*ampere hours*.....110.....@ 20 hour rate
 Number of plates per cell.....17
 Bench charging rate—
 Start.....Finish.....
 Which battery terminal is grounded.....Positive
 Location of battery.....Under hood in left fender shield

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STARTING MOTOR

Make Auto-Lite Model MCH-6102
 Normal engine cranking speed
 Brush spring tension 42-53.0%
 Lock test—
 Amperage draw 52.5
 Volts 3.4
 Torque in pounds feet 11 to 14
 No load test—
 Amperage draw 50 to 65
 Volts 6 R.P.M. 4900 Minimum
 Type of drive—~~sliding gear~~ sliding gear with overrunning clutch
 Starting device—Solenoid, manual, etc. Solenoid
 Starter operation—check items required to start engine
 1. Turn on Ignition beyond "Ignition on" position
 2. Depress starter pedal
 3. Depress accelerator pedal
 4. Depress clutch pedal
 5. Operate button on dash
 6. Pull out throttle
 Starting motor pinion meshes front or rear Front
 No. of teeth in flywheel 14.6
 Face width of flywheel teeth 1/2"
 Gear ratio between starter armature and flywheel 16.22 to 1

GENERATOR

1st Cars GDZ-4801
 Make Auto-Lite Model Later Cars GGW-6001
 Type—third brush, shunt, etc. Shunt
 Brush spring tension 1st Cars 35-53, Later Cars 40-55
~~Current regulator~~ Current and Voltage
 voltage control unit Current and Voltage
 Maximum controlled charging rate
 Temperature
 Amperes 1st Cars 35, Later Cars 40
 Voltage 8
 R.P.M. 1st Cars Cold 1800-2000, Hot 2100-2400
Later Cars Cold 1800-2000, Hot 2150-2250
 Cutoff ratio—
 Voltage at closing 6.7 to 7.0
 Amperes to open, reverse current 4 to 6
 Air gap .031" to .034"
 Voltage regulator—
 Volts 7.23 to 7.53
 Temperature 70°F
 Air gap .048" to .052"
 Current regulator—
 *Amperes 1st Cars 35-45, Later Cars 40-51
 Temperature
 Air gap .048" to .052"
 Car speed for maximum charging rate Approx. 25 mph
 Ammeter or charge indicator make

LAMPS

Lighting switch make
 Are tail and dash lights in series No
 Headlights—
 Make
 Location—in fender, in catwalk, or radiator shell Fender
 Parking or fender light make
 Tail end stop light make
 Horn—
 Type—vibrator or motor Vibrator No. used 2
 Make
 Amperage draw of each 20

CLUTCH

Make
 Drive type—
 Direct to flywheel face Yes
 Through fluid flywheel Special Equipment
 Semi-centrifugal No
 Power operated unit—make None
 Vibration insulation or neutralizer—fabric,
rubber blocks or springs Springs
 No. of clutch driving discs Two
 No. of clutch driven discs One
 Clutch facing—
 Material—woven or monided asbestos, etc.
 Inside diameter 7"
 Outside diameter 10"
 Thickness .125"
 No. required Two

TRANSMISSION (DeLuxe only) see page 4a for custom models.

Transmission—
 Make Own Model
 No. of forward speeds 3 (DeLuxe) 4 (Custom)
 Manual shift—yes, no Yes
 Automatic or auxiliary shifting mechanism—yes Special Equip.
 If yes, Make Own
 Type—~~overdrive, manual, etc.~~ hydraulic
 Automatic overdrive—
 Make None
 Oil capacity—pints
 Oil grade recommended—S.A.E. viscosity
 Summer Winter
 Gear ratio in high—standard 5-passenger
4-door sedan Direct
 Transmission ratio—
 In overdrive In second 1.83 to 1
 In third 1.00 to 1 In fourth
 In low 2.57 to 1 In reverse 3.48 to 1

*Higher value denotes initial temporary capacity rating. B-metal thermostatic hinge reduces output to lower value after 25 to 30 minutes operation at full output.

DESOTO S-13

Differences in specifications due to use of special transmission: ("Tip-Toe Shift") Standard for Custom models, special equipment for DeLuxe models.

CLUTCH

Inside diameter - - - - -	6"
Outside diameter - - - - -	9-1/4"

TRANSMISSION

No. forward speeds - - - - -	4
Manual shift - - - - -	No
Automatic or auxiliary shifting mechanism - - - - -	Yes
- Type - - - - -	Hydraulic
Gear ratio in high - std. 5 pass. 4 door sedan - - -	Direct

Transmission Ratio

Fourth - - - - -	1.00
Third - - - - -	1.75
Second - - - - -	2.04
First - - - - -	3.57
Reverse - - - - -	3.99

Transmission Oil

Capacity - pints - - - - -	3
Grade recommended summer and winter - - - - -	No. 10W

REAR AXLE

Gear ratio - std. 5 pass. 4 door sedan - - - - -	3.73 or 3.9
No. of teeth in ring gear - - - - -	41 39
- in pinion - - - - -	11 10

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TRANSMISSION (cont'd)

Constant mesh gears on second **Yes**
 Spur or helical gears—
 For second speed
 For first speed
 For reverse speed
 For all speeds **Helical**
 Synchronous meshing and third gears **Yes**
 Transmission oil—
 Capacity—*pints* DeLuxe - 2-3/4 Custom - 3 (refill)
 Grade recommended—S.A.E. viscosity
 Summer **SAE 80** Winter **SAE 80**
 Universal joints—
 Make
 Number used **Two**
 Type—*metal with anti-friction bearing* ~~metal with anti-friction bearing~~
 Lubricated with **HYV. fiber Universal Joint Grease**
 Drive taken through springs, torque arm, torque tube or radius rods **Rear Springs**
 Torque taken through springs, torque arm, torque tube or radius rods **Rear Springs**

REAR AXLE

Rear axle—
 Make Model
 Type—*Semi, full or three-quarter floating* **Semi-floating**
 Minimum road clearance under center of rear axle—*tires inflated* **8-7/8"**
 Rear axle oil—
 Capacity—*pints* **3-1/4**
 Grade and type recommended—S.A.E. viscosity
 Summer **90** Winter* **90**
 Type of gearing—*spiral bevel, worm, hypoid* **Hypoid**
 Gear ratio—*standard 5-passenger 4-door sedan* **3.9 to 1****
 Optional gear ratios **3.73 to 1**
 Number of teeth— **41 (3.73)** **11**
 In ring gear **39 (3.9)** In pinion **10**
 How is pinion adjusted—*screw or shims* **Solid shim**
 How is pinion bearing adjusted—*screw or shims* **Shims**
 Are pinion bearings carried in sleeve **No**
 Backlash between pinion and ring gear **.006" to .010"**

TIRES and WHEELS

Tires—
 Make **Goodyear Super-Cushion**
 Size **7.60 x 15"** No. of plies **4**

* Extreme winter below -10°F. - SAE 80
 ** DeLuxe model. Custom models use 3.9 or 3.73 to 1 ratio.
 Revised: 4-29-49

TIRES and WHEELS (Cont'd)

Inflation pressure—Front **24 lb.** Rear **24 lb.**
 Rim—Diameter **15"** Width **5-1/2"**

SPRINGS

FRONT SPRING—

Independent or conventional suspension **Independent**
 Type—*coil, semi-elliptic, transverse, torsion* **Coil**
 Make
 Material **"Amola" steel**
 Torsional stabilizer at front **Yes**
 If leaf—
 Length Width
 Number of leaves—5-passenger, 4-door sedan
 Are radius rods used on axle
 If coil—
 Free length Rt. **15-5/8"**; Lt. **15-13/16"**
 Length under curb weight **11.00"**

REAR SPRING—

Independent or conventional suspension **Conventional**
 Type—*coil, semi-elliptic, transverse, torsion* **Semi-elliptic**
 Make
 Material **"Amola" steel**
 Torsional stabilizer at rear **No**
 If leaf—
 Length **53-5/8"** Width **1-3/4"**
 Number of leaves—5-passenger, 4-door sedan **8**
 Spring leaves lubricated with **MoPar Spring Lubricant**
 Spring cover, Yes **X** No
 Spring shackles—
 Front—Type **Pivot** Make
 Rear—Type **Side Strap** Make
 Spring bolts—
 Type **Rubber bushing**
 If coil—
 Free length
 Length under curb weight
 Rate for above *pounds per inch*
 Shock absorbers—
 Make
 Type, one way with lever, two way with lever, or direct acting
 Front **Direct-acting**
 Rear **Direct-acting**
 Fluid capacity (oz.)—front **Non-refillable**

Make of Car DeSoto Model S-13 Date

STEERING

Steering gear—
 Type Worm and Roller (3-tooth)
 Make Model
 Ratio 18.2 to 1
 Lubricant recommended SAE 90 Fluid Gear Lubricant
 Steering wheel diameter 18"
 Drag link longitudinal or transverse Longitudinal
 Tie rod—one or two Two
 Is intermediate steering arm used Yes
 Number of turns of steering wheel for full left
 to right swing of wheels
 Car turning radius—feet—right, left or both
 Caster—degrees -1° to -3° ~~xx~~ (-2° preferred)
 Camber—degrees or 0° to ~~xxx~~ 3/4° * ~~xx~~
 Toe-in—inches 0" to 1/16" ~~xx~~ (0 pfd.)
 Crosswise inclination of kingpin—degrees 4 3/4° to 6°
 Front axle—
 Make Model
 Section type—I-beams, tubular or none None
 End type—Elliott or reverse Elliott Reverse Elliott
 Minimum road clearance—tires inflated 9-3/8"
 at center

BRAKES

Foot brakes—
 Make Chrysler - Lockheed
 Type of mechanism, hydraulic or mechanical Hydraulic
 If vacuum booster is standard, state make No
 Brake lining moulded, semi-moulded or woven— Molded
 Primary shoe
 Secondary shoe Molded
 Drum—
 Material Ft. Cast Iron Diameter 11"
 Lining— Rr. Cast Iron or Centrifuge (opt.)
 Length per wheel Frt. 23" Rear 20-3/8"

* Left side 1/4° to 1/2° higher than right side.

BRAKES (cont'd)

Width 2" Thickness 13/64"
 Clearance—soe .006" heel .006"
 Total foot braking area 173-1/2 sq. in.
 Percent braking power on rear wheels 40%
 Hand lever operates on—transmission, separate rear brakes, rear service brakes or all four service brakes Transmission
 Hand brake, if separate from service brake—
 Internal or external External
 Drum diameter 6"
 Lining—
 Length per drum 15-3/8"
 Width 2" Thickness 5/32"
 Clearance .015" to .020"

FRAME and OTHER GENERAL DATA

Frame—
 Depth—maximum 6"
 Thickness—maximum 3/32"
 Flange width—maximum 3-29/32"
 Wheelbase 125-1/2"
 Tread—
 Front 56"
 Rear 57"
 Weight of standard 5-passenger, four-door sedan—
 Shipping
 Curb
 Price of standard 5-passenger, 4-door sedan
 First serial number, this series
 Serial number location Left front door hinge post
 Overall length of car—
 With bumpers and bumper guards 206-11/16"
 Overall width of car 73-7/32"
 Overall height, road to roof with no load 66-3/8"

S-13 - STATION WAGON AND LONG WHEELBASE MODELS

Other than the items listed below, the chassis data for the Station Wagon and the long wheelbase models are the same as listed on the preceding pages.

	<u>STATION WAGON</u>	<u>LONG WHEELBASE</u>
<u>TRANSMISSION</u>		
Universal joints - Number used - - - - -	---	Three
<u>REAR AXLE</u>		
Minimum road clearance under center of rear axle (Tires inflated) - - - - -	8-5/8"	9"
Rear axle oil capacity, pints - - - - -	3-1/2	3-1/2
Gear ratio - Standard - - - - -	4.1 to 1	4.3 to 1
- With special transmission - - - - -	3.91 to 1	3.91 to 1
Number of teeth in ring gear - Standard - - - - -	41	43
- With spec. trans. - - - - -	43	43
Number of teeth in pinion - Standard - - - - -	10	10
- With spec. trans. - - - - -	11	11
<u>TIRES AND WHEELS</u>		
Tires - Size - - - - -	---	8.20 x 15
Wheels - Diameter x width - - - - -	15" x 6	15" x 6
<u>SPRINGS</u>		
Rear spring - Number of leaves - - - - -	Ten	Nine
<u>STEERING</u>		
Gear ratio - - - - -	---	20.4 to 1
Minimum road clearance (Tires inflated) at center - - - - -	19-3/4"	10-1/4"
<u>BRAKES</u>		
Foot brakes - Drum - Diameter - - - - -	12"	12"
- Material, front and rear - - - - -	Centrifuse	Centrifuse
- Lining - Length per wheel - - - - -	25-1/8"	25-1/8"
- Total foot braking area - - - - -	201 sq.in.	201 sq.in.
Handbrakes - Drum - Diameter - - - - -	---	7"
- Lining - Length per drum - - - - -	---	20"
- Width - - - - -	---	2-1/2"
<u>FRAME AND OTHER GENERAL DATA</u>		
Frame - Depth - - - - Maximum - - - - -	---	6-17/32"
- Thickness - - - - Maximum - - - - -	---	9/64"
- Flange width - Maximum - - - - -	---	3-59/64"
Wheelbase - - - - -	---	139-1/2"

Make of Car.....DeSoto..... Model.....S-13..... Date.....

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
- Size or number
- Fan bearing—
 Make or type
- Size or number
- Starting motor commutator end bearing—
 Make or type
- Size or number
- Starting motor drive end bearing—
 Make or type
- Size or number
- Starting motor outboard bearing—
 Make or type
- Size or number
- Generator commutator end bearing—
 Make or type
- Size or number
- Generator drive end bearing—
 Make or type
- Size or number
- Transmission main drive gear front pilot bearing—
 Make or type
- Size or number
- Clutch throwout bearing—
 Make or type
- Size or number
- Transmission main drive gear rear bearing—
 Make or type
- Size or number
- Transmission main shaft front pilot bearing—
 Make or type
- Size or number
- Transmission main shaft rear bearing—
 Make or type
- Size or number
- Transmission countershaft front bearing—
 Make or type
- Size or number
- Transmission countershaft rear bearing—
 Make or type
- Size or number
- Transmission reverse idler bearing—
 Make or type

BEARINGS (cont'd)

- Size or number
- Overdrive shaft rear bearing—
 Make or type
- Size or number
- Overdrive shaft pilot bearing—
 Make or type
- Size or number
- Main shaft extension bearing—
 Make or type
- Size or number
- Rear axle pinion shaft front bearing—
 Make or type
- Size or number
- Rear axle pinion shaft rear bearing—
 Make or type
- Size or number
- Differential right bearing—
 Make or type
- Size or number
- Differential left bearing—
 Make or type
- Size or number
- Rear wheel inner bearing—
 Make or type
- Size or number
- Rear wheel outer bearing—
 Make or type
- Size or number
- Front wheel inner bearing—
 Make or type
- Size or number
- Front wheel outer bearing—
 Make or type
- Size or number
- Kingpin upper bearing—
 Make or type
- Size or number
- Kingpin lower bearing—
 Make or type
- Size or number
- Kingpin thrust bearing—
 Make or type
- Size or number

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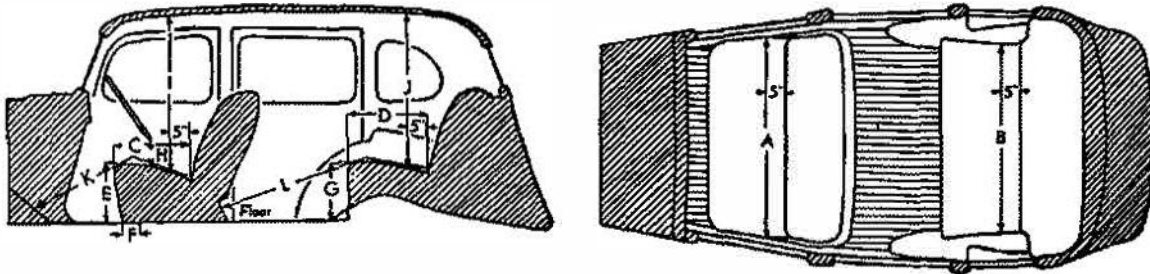
NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.
 (2) Enter on top line your own model name, or series mark corresponding to Standard, Deluxe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

EQUIPMENT	Models		
	Standard	Deluxe	Custom
Catalog Designation of Model		S-13-1	S-13-1
Lacquer make		None	None
Body finish, lacquer or synthetic enamel		Syn.Baking En.	Syn.Baking En.
Fender finish, lacquer or synthetic enamel		Syn.Baking En.	Syn.Baking En.
Hardware make		*N.A.	N.A.
Speedometer make		Auto-Lite	Auto-Lite
Gasoline gauge make		Auto-Lite	Auto-Lite
Thermometer make		Auto-Lite	Auto-Lite
Car lock make		**	**
Car lock operates on ignition or ignition and steering		Ignition	Ignition
Clock make mechanical or electrical		Borg.Elect.	Borg.Elect.
Ciger lighter make		Casco-Cuna	Casco-Cuna
Safety glass make		Pitts.Pl.Glass	Pitts.Pl.Glass
Safety glass type, laminated or tempered		Laminated	Laminated
In windshield		Laminated	Laminated
In side windows		Laminated	Laminated
In rear window		Tempered	Tempered
Bumper make		*N.A.	N.A.
Bumper guard make		*N.A.	N.A.
Car heater make .. Chrysler Type Under hood		Chrysler	Chrysler
Direction signal make		United Spec.	United Spec.
Front-yes or no. <input checked="" type="checkbox"/> Yes			
Rear-yes or no. <input type="checkbox"/> No			
No. of tail lights included		Two	Two
No. of visors included		Two	Two
No. of horns included		Dual	Dual
No. of windshield wipers included		Two	Two
No. of spare tires included		One	One

* Not Available
 ** Yale and Towne or Briggs and Stratton

Make of Car... DeSoto Model S-13 (only) Date

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



INTERIOR

	Deluxe	Custom
	<u>S-13-1</u>	<u>S-13-2</u>

All interior body dimensions taken with front seat in its ^{HEAD} ~~DRIVER~~ Position

Width of front seat cushion, measured $\frac{1}{2}$ inches from back (A)	58	58
Width of rear seat cushion, measured $\frac{1}{2}$ inches from back (B)	58	58
Depth of front seat cushion (C)	19	19
Depth of rear seat cushion (D)	19	19
Height of front seat cushion measured $1\frac{1}{2}$ inches from center line of body (E)	15	15
Front seat horizontal adjustment, inches (F)	5	5
Front seat vertical adjustment, inches	1- $\frac{3}{32}$	1- $\frac{3}{32}$
Height of rear cushion measured $1\frac{1}{2}$ inches from center line of body (G)	15- $\frac{3}{8}$	15- $\frac{3}{8}$
Vertical distance steering wheel and seat cushion (H)	5- $\frac{7}{8}$	5- $\frac{7}{8}$
Head room at front seat, measured $\frac{1}{2}$ inches from back (I)	37	37
Head room at rear seat, measured $\frac{1}{2}$ inches from back (J)	37	37
Leg room in front seat, measured from 6 inches up on toe board, following contour of seat cushion (K)	41- $\frac{7}{8}$	41- $\frac{7}{8}$
Leg room in rear seat, measured from center of foot rest, following contour of seat cushion (L)**	41- $\frac{1}{2}$	41- $\frac{1}{2}$
Trunk capacity, cubic feet	*N.A.	N.A.
Width of left front pillar on diagonal with door closed	3- $\frac{13}{16}$	3- $\frac{13}{16}$

* Not Available

** The rear seat foot rest is integral with the floor, therefore, this measurement is constant for all positions of the front seat.

Make of Car.....DeSoto..... Model.....S-13..... Date.....

BODY DETAIL AND EQUIPMENT FORMS

DIRECTIONS

Only standard equipment included in the Factory Delivered price shown in column 3 should be listed on this sheet. Please arrange body types in an ascending price scale with the lowest priced type at the top and the highest priced type at the bottom.

IMPORTANT—To save your time, where an item is common to several types, use arrows to indicate the fact as shown in diagrams.

Standard abbreviations may be used where space limitations make this necessary. Where sub-headings such as those shown in column for Body Make are identified with numerals, these numerals may be used in filling in form.

Make	Body Model	Body Make
Chrysler 2-44	6 Jockey	Fisher
	Phantom	
	Two-door sedan	
	Four-door sedan	
	Coupe	
Chrysler 2-40	Coupe with rumble seat	Murray
	Convertible	
	Phantom	Fisher
	Two-door sedan	
	Four-door sedan	Budd
Chrysler 2-40	Coupe	
	Coupe with rumble seat	
	Convertible	
	Limousine	Fleetwood
	Landulet	Lucas

MAKE AND MODEL	BODY TYPE List Types on Ascending Price Scale Beginning with the Lowest Price	Factory Delivered Price Including Federal Tax and Handling Charge	Number of Passengers	Wheel-base	Shipping Weight	Seating Arrangement Number See Below	Body Make
DeSoto (Deluxe) (S-13-1)	4 Door Sedan	N.A.	6	125-1/2	N.A.	4	Chrysler
	Club Coupe		6			4	
	Station Wagon		9			Special	
	Carryall		6			4	
DeSoto (Custom) (S-13-2)	8 Pass. Sedan		8	139-1/2		Special	
	4 Door Sedan		6	125-1/2		4	
	Club Coupe		6			4	
	Convertible Coupe		6			Special	
	Spec. Club Coupe		6				
	8 Pass. Sedan		8	139-1/2			
	Suburban		9				

SEATING ARRANGEMENT NUMBERS

Revised: 4-29-49

- 1—Two-door car with no rear seat.
- 2—Two-door car with rumble seat.
- 3—Two-door car with conventional rear cushion.
- 4—Four-door car with cushions front and rear.
- 5—Four-door car with cushions front and rear plus two auxiliary seats folding into front seat back.
- 6—Two-door car with two opera seats folding into sides of body.
- 7—Two-door car with two opera seats folding into rear of body.
- 8—Two-door car with one opera seat folding into rear of body and other seat stationary.
- 9—Two-door car with rear stationary seat for one passenger.