



	Hudson Terraplane Business Cars	Hudson Terraplane	Hudson Six	Hudson Eight	Hudson 112
<b>REAR AXLE (Cont'd)</b>					
Pinion Bearings					
Type	Taper Roller	Taper Roller	Taper Roller	Taper Roller	Taper Roller
Adjustment	Shim	Shim	Shim	Shim	Shim
End Play	.000"-.001"	.000"-.001"	.000"-.001"	.000"-.001"	.000"-.001"
Differential Bearings					
Type	Taper Roller	Taper Roller	Taper Roller	Taper Roller	Taper Roller
Adjustment	Screw	Screw	Screw	Screw	Screw
End Play	.009" Tension	.009" Tension	.009" Tension	.009" Tension	.009" Tension
Wheel Bearings					
Type	Taper Roller	Taper Roller	Taper Roller	Taper Roller	Taper Roller
Adjustment	Shim	Shim	Shim	Shim Shim	Shim
End Play	.004"-.010"	.004"-.010"	.004"-.010"	.004"-.010"	.004"-.010"
Pinion and Gear					
Adjustment	Shim	Shim	Shim	Shim	Shim
Lash in Gears	.0005"-.003"	.0005"-.003"	.0005"-.003"	.0005"-.003"	.0005"-.003"
Lubrications					
Type - Summer and Winter	SAE 90 E. P.	SAE 90 E. P.	SAE 90 E. P.	SAE 90 E. P.	SAE 90 E. P.
Quantity (Pints)	2-3/4	2-3/4	2-3/4	2-3/4	2-3/4
<b>BRAKES</b>					
Location	4 Wheels	4 Wheels	4 Wheels	4 Wheels	4 Wheels
Control	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Drum Diameter	10-1/6"	10-1/16"	10-1/6"	11-1/16"	9-1/16"
Drum Material	Alloy Steel	Alloy Steel	Alloy Steel	Alloy Steel	Alloy Steel
Lining-Type					
Primary	Moulded	Moulded	Moulded	Moulded	Moulded
Secondary	Woven	Woven	Woven	Woven	Woven
Width	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"
Thickness	3/16"	3/16"	3/16"	3/16"	3/16"
Length per Wheel	22-1/8"	22-1/8"	22-1/8"	23-15/16"	19"
Pieces per Wheel	2	2	2	2	2
Area (Total Sq. In.)	154-7/8	154-7/8	154-71/8	167-1/2	133
Adjustments:					
Anchor Pin - Movable	Radially	Radially	Radially	Radially	Pivot
Rear Shoe	Eccentric	Eccentric	Eccentric	Eccentric Screw	Eccentric and Screw
Front Shoe	Screw	Screw	Screw	Screw Screw	Eccentric and Screw
Clearance:					
Anchor Pin End of Shoe	.010"	.010"	.010"	.010"	.010"
Adj. Screw End of Shoe	.010"	.010"	.010"	.010"	.010"
Max. Variation per Shoe	.003"	.003"	.003"	.003"	.003"
<b>CLUTCH</b>					
Type	Single Disc in Oil	Single Disc in Oil	Single Disc in Oil	Single Disc in Oil	Single Disc in Oil
Facing	Cork	Cork	Cork	Cork	Cork
Pilot Bearing	Ball	Ball	Ball	Ball	Ball
Throwout Bearing	Ball	Ball	Ball	Ball	Ball

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<b>CLUTCH (Cont'd)</b>					
No. Inserts (Cork)	108 exc. 80 Utility Coupe Utility Coach 90 Utility Coupe Utility Coach Sedan	108 exc. Deluxe Models 90 Deluxe Models	108	108	90
Lubrication:					
Housing	Hudsonite	Hudsonite	Hudsonite	Hudsonite	Hudsonite
Quantity	1/3 Pint	1/3 Pint	1/3 Pint	1/3 Pint	1/3 Pint
Location of Filler	Front of Flywheel	Front of Flywheel	Front of Flywheel	Front of Flywheel	Front of Flywheel
Throwout Bearing	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant
Quantity	1 Oz.	1 Oz.	1 Oz.	1 Oz.	1 Oz.
Type of Fitting	Zerk	Zerk	Zerk	Zerk	Zerk
Location of Fitting	Right Bell Housing	Right Bell Housing	Right Bell Housing	Right Bell Housing	Right Bell Housing
<b>ELECTRICAL EQUIPMENT</b>					
<b>Coil (Ignition):</b>					
Make - Auto-Lite	IG-4650	IG-4650	IG-4650	IGP-4008A	IG-4650
Location	Dash	Dash	Dash	Dash	Dash
<b>Distributor (Ignition):</b>					
Make	Auto-Lite	Auto-Lite	Auto-Lite	Auto-Lite	Auto-Lite
Model	IGW-4104A	IGW-4104A	IGW-4103A	IGP-4008A	IGW-4103A
Drive	Camshaft	Camshaft	Camshaft	Camshaft	Camshaft
Advance	Automatic	Automatic	Automatic	Automatic	Automatic
Breaker Point Gap	.020"	.020"	.020"	.017"	.020"
Timing	D. C.	D. C.	D. C.	D. C.	1/4" B. D. C.
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4	1-6-2-5-8-3-7-4	1-5-3-6-2-4
Lubrication	Light Motor Oil	Light Motor Oil	Light Motor Oil	Light Motor Oil	Light Motor Oil
Quantity	Fill Cup	Fill Cup	Fill Cup	Fill Cup	Fill Cup
<b>Generator:</b>					
Make - Auto-Lite	GDF-4803A-1*	GDF-4802A**	GDF-4802A**	GDF-4802A**	GBM-4609A
Drive	V-Belt	V-Belt	V-Belt	V-Belt	V-Belt
Belt Adjustment	Swing Mtg.	Swing Mtrg.	Swing Mtng.	Swing Mtng.	Swing Mtng.
Regulation - Internal	Third Brush	Third Brush	Third Brush	Third Brush	Third Brush
Lubrication	Motor Oil	Motor Oil	Motor Oil	Motor Oil	Motor Oil
Quantity - each Bearing	2 Drops	2 Drops	2 Drops	2 Drops	2 Drops
External	None <sup>1</sup> Regulator	Voltage <sup>2</sup> Regulator	Voltage Regulator	Voltage	None <sup>3</sup>

	Hudson Terraplane Business Cars	Hudson Terraplane	Hudson Six	Hudson Eight	Hudson 112
<b>ELECTRICAL EQUIPMENT (Cont'd)</b>					
Charging Rate (Voltage Controlled):					
	Min.-Max.	Min.-Max.	Min.-Max.	Min.-Max.	Min.-Max.
Cold (Amps.)	29-32 <sup>1</sup>	29-32 <sup>2</sup>	29-32	29-32	29-32 <sup>3</sup>
Hot (Amps.)	26-29	26-29	26-29	26-29	26-29
Charging Rate (Voltage Not Controlled):					
Cold (Amps.)	17-19	17-19	19-21		
Hot (Amps.)	16-18	16-18	17-19		
1 Voltage Regulator used on Series 88 Sedan and with Radio.					
2 Voltage Regulator used on Series 82 and Series 81 with Radio.					
3 Voltage Regulator used with Radio and optional Generator					
* GDF-4803A-1 - 1938 Terraplane 80, 81, 88					
** GDF04802A - 1938 Hudson all exc, 112; 1938 Terraplane 82, opt'l 112 w/ radio, 80, 81, 82					
<b>Lamps:</b>					
Bulb Voltage	6-8	6-8	6-8	6-8	6-8
Candle Power and Bases - (Contact Single - S; Double - D)					
Head - Mazda No. 2331	32-32-D	32-32-D	32-32-D	32-32-D	32-32-D
Head - Exp. - Mazda No. 2520-D	21-50-D	21-50-D	21-50-D	21-50-D	21-50-D
Parking-Mazda No. 55	1-1/2-S	1-1/2-S	1-1/2-S	1-1/2-S	1-1/2-S
Fender Lamp - Mazda No 63	3-S	3-S	3-S	3-S	3-S
Dash Signals - Mazda No. 51	1-S	1-S	1-S	1-S	1-S
Instruments - Mazda No. 55	1-1/2-S	1-1/2-S	1-1/2-S	1-1/2-S	1-1/2-S
Service - Mazda No. 55	1-1/2-S	1-1/2-S	1-1/2-S	1-1/2-S	None
Dome - Mazda No. 87	15-S	15-S	15-S	15-S	15-S
Stop and Tail - Mazda No 1158	3-21-D	3-21-D	3-21 -D	3-21-D	3-21 -D
License Lamp - Mazda No. 63	3-S	3-S	3-S	3-S	3-S
Fuse - Light Switch Circuit	20 Amps.	20 Amps.	20 Amps.	20 Amps.	20 Amps.
Accessory Circuit	20 Amps.	20 Amps.	20 Amps.	20 Amps.	20 Amps.
<b>Spark Plugs:</b>					
Make	Champion	Champion	Champion	Champion	Champion
Type - Standard Head	J8-A	J8-A	J8-A	J8-A	18
Type - Super Power Dome Head	H-10	H-10	H-10		
Size	14 mm.	14 mm.	14 mm.	14 mm.	14 mm.
Gap	.032"	.032"	.032"	.032"	.032"
<b>Starting Motor:</b>					
Make - Auto-Lite	MAB-4075	MAB-4075	MAB-4075	MAB-4075	MAJ-4057
Drive	Bendix	Bendix Bendix	Bendix	Bendix	
Control	Solenoid	Solenoid	Solenoid	Solenoid	Foot Switch
Lubrication	Motor Oil	Motor Oil	Motor Oil	Motor Oil	Motor Oil
Quantity (Each Bearing)	2 Drops	2 Drops	2 Drops	2 Drops	2 Drops
<b>Battery:</b>					
Location	Eng. Comp. L. Side	Eng. Comp. L. Side	Eng. Comp. L. Side	Eng. Comp. L. Side	Eng. Comp. L. Side
Make	National	National	National	National	National
No. Plates	17	17	17	19	17
Dimensions - Length	10-9/16"	10-9/16"	10-9/16"	11-13/16"	10-9/16"
Width	7-1/4"	7-1/4"	7-1/4"	7-1/4"	7-1/4"
Height (overall)	7-13/16"	7-13/16"	7-13/16"	7-13/16"	7-13/16"
Terminal Grounded	Positive	Positive	Positive	Positive	Positive

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<b>ENGINE</b>					
Number of Cylinder	6	6	6	8	6
Arrangement	Vertical	Vertical	Vertical	Vertical	Vertical
Bore	3"	3"	3"	3"	3"
Stroke	5"	5"	5"	4-1/2"	4-1/8"
Piston Displacement (cu. in.)	212	212	212	254	175
Piston Displacement (cu. in.)	212	212	212	254	175
Taxable Horse Power	21.6	21.6	21.6	28.8	21.6
Actual Horse Power:					
Standard Head	96@3900		101@4000	122@4200	83@4000
Super Power Dome Head	102 3900		107@4000		
Standard Head - Deluxe		96@3900			
Standard Head - Super		101 @ 4000			
Super Power Dome Head - Deluxe		102@3900			
Super Power Dome Head - Super		107@4000			
Compression Ratio:					
Standard	6.25	6.25	6.25	6.25	6.50
Super Power Dome	7.00 to 1	7.00 to 1	7.00 to 1		
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4	1-6-2-5-8-3-7-4	1-5-3-6-2-4
Engine Mounting	Rubber	Rubber	Rubber	Rubber Rubber	
Camshaft: Drive	Gear	Gear	Gear	Gear	Gear
Number of Teeth -					
Camshaft Gear	56	56 56	56	56	
Crankshaft Gear	28	28	28	28	28
Timing Indicated by Marks on	Gears	Gears	Gears	Gears	Gears
Camshaft Bearings:					
Diameter and Length:					
No. 1	2" x 1-3/16"	2" x 1-3/16"	2" x 1-3/16"	2-1/32" x 1-3/8"	2" x 1-3/16"
No. 2	1-31/32" x 1-1/16"	1-31/32" x 1-1/16"	1-31/32" x 1-1/16"	2" x 1"	1-31/32" x 1-1/16"
No. 3	1-1/2" x 15/16"	1-1/2" x 15/16"	1-1/2" x 15/16"	1-31/32" x 1-1/4"	1-1/2" x 15/16"
No. 4				1-15/16" x 1"	
No. 5				1-1/2" x 1-1/2"	
Radial Clearance	.0025"	.0025"	.0025"	.0025"	.0025"
End Play Prevented by	Spring	Spring	Spring	Spring	Spring
Connecting Rods:					
Material	D. F. Steel	D. F. Steel	D. F. Steel	D. F. Steel	D. F. Steel
Weight (Ounces)	30	30	30	30	30-1/2
Length (C to C)	8-3/16"	8-3/16"	8-3/16"	8-3/16"	8-5/8"
Lower End Bearing:					
Diameter	1-15/16"	1-15/16"	1-15/16"	1-15/16"	1-15/16"
Length	1-3/8"	1-3/8"	1-3/8"	1-3/8"	1-3/8"
Clearance	.001"	.001"	.001"	.001"	.001"
End Play	.006"-.010"	.006"-.010"	.006"-.010"	.006"-.010"	.006"-.010"
Material	Spun Babbitt	Spun Babbitt	Spun Babbitt	Spun Babbitt	Spun Babbitt
Upper End Bearing					
Diameter	7-1/4"	7-1/4"	3/4"	3/4"	3/4"
Length	15/16"	15/16"	15/16"	15/16"	15/16"
Radial Clearance	.0003"	.0003"	.0003"	.0003"	.0003"
Material	Bronze	Bronze	Bronze	Bronze	Bronze

	Hudson Terraplane Business Cars	Hudson Terraplane	Hudson Six	Hudson Eight	Hudson 112
<b>ENGINE (Cont'd)</b>					
<b>Cooling System:</b>					
Circulation by	Pressure Pump	Pressure Pump	Pressure Pump	Pressure Pump	Pressure Pump
Temperature Control	Thermostat	Thermostat	Thermostat	Thermostat	Thermostat
Capacity (Quarts)	12-1/2	12-1/2	12-1/2	17-1/2.	12
Upper Radiator Hose - Length	10"	10"	10"	10"	10"
- Diameter	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
Lower Radiator Hose - Length	8-1/2"	8-1/2"	3"	8 -1/2"	8-1/2"
- Diameter	1-5/8"	1-5/8"	1-9/16"	1-5/8"	1-5/8"
Pump Hose Outlet - Length	3-1/4"	3 -1/4"	3-1/4"	3-1/4"	3-1/4"
- Diameter	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
By-Pass - Length	None	2-5/16"	2-5/16"	2-5/16"	None
- Diameter	None	1"	1"	1"	None
Pump Drive	V-Belt	V-Belt	V-Belt	V-Belt	V-Belt
Fan Drive	Pump Shaft	Pump Shaft	Pump Shaft	Pump Shaft	Pump Shaft
Belt Adjustment	Generator	Generator	Generator	Generator	Generator
	Mounting	Mounting	Mounting	Mounting	Mounting
Pump Bearing - Type	Bronze	Bronze	Bronze	Bronze	Bronze
Lubrication Fitting	Metered Zerk	Metered Zerk	Metered Zerk	Metered Zerk	Metered Zerk
Packing Gland	Automatic	Automatic	Automatic	Automatic	Automatic
<b>Crankshaft:</b>					
Type	Fully Compensated	Fully Compensated	Fully Compensated	Fully Compensated	Fully Compensated
Number of Bearings	3	3	3	5	3
Bearing Material	Bronze Backed	Bronze Backed	Bronze Backed	Bronze Backed	Bronze Backed
Crankshaft:					
Type	Fully Compensated	Fully Compensated	Fully Compensated	Fully Compensated	Fully Compensated
Number of Bearings	3 3	3	3	3	
Bearing Material	Bronze Backed Babbitt	Bronze Backed Babbitt	Bronze Backed Babbitt	Bronze Backed Babbitt	Bronze Backed Babbitt
Bearing Diameter and Length:					
No. 1	2-11/32" x 1 -5/8"	2-11/32" x 1-5/8"	2-11/32" x 1-5/8"	2-9/32" x 1-5/8"	2-11/32" x 1-5/8"
No. 2	2 -3/8" x 1-3/4"	2-3/8" x 1-3/4"	2 -3/8" x 1-3/4"	2-5/16" x 1-3/8"	2-3/8" x 1-3/4"
No. 3	2-13/32" x 2-3/8"	2-13/32" x 2-3/8"	2-13/32" x 2-3/8"	2-11/32" x 1-7/8"	2-13/32" x 2-3/8"
No. 4				2 -3/8" x 1-3/4"	
No 5				2-13/32" x 2"	
End Play Taken by Bearing No.	2	2	2	3	2
Bearing End Play	.006"-.012"	.006"-.012"	.006"-.012"	.006"-.012"	.006"-.012"
Bearing Clearance	.001"	.001"	.001"	.001"	.001"
Adjustment Type	Shim	Shim	Shim	Shim	Shim
<b>Fuel System:</b>					
Carburetor - Make - Carter	W1-397S <sup>1</sup>	WDO-402S <sup>2</sup>	WDO-402S <sup>2</sup>	WDO-402S <sup>2</sup>	W1-411S <sup>3</sup>
Type	Down Draft Single	*Down Draft Duplex	Down Draft Duplex	Down Draft Duplex	Down Draft Single
Size	1-1/4"	**1	1	1	1
Heat Control	Manual	***Automatic	Automatic	Automatic	Manual
Choke Control	Manual	***Automatic	Automatic	Automatic	Manual
Fuel Delivery by	Pump	Pump	Pump	Pump	Pump
Pump Drive from Camshaft by	Cam	Cam	Cam	Cam	Cam

	Hudson Terraplane Business Cars	Hudson Terraplane	Hudson Six	Hudson Eight	Hudson 112
<b>Engine - Fuel System (Cont'd)</b>					
Air Cleaner and Silencer (Type)	Oil Wetted	Oil Wetted	Oil Wetted	Oil Wetted	Oil Wetted
Air Cleaner and Silencer - Optional	Oil Bath	Oil Bath	Oil Bath	Oil Bath	Oil Bath
<sup>1</sup> W1 -397S - Standard 80, 81, 88				* Down Draft Single on Series 81	
<sup>2</sup> WDO-402S - Standard 82, 1938 Hudson all exc. 89				** Size 1-1/4" on Series 81	
<sup>3</sup> W1-411S - Model 89 to s/n 89-36572-1; WI-417S -- 89 after s/n 89-36752				*** Manual on Series 81 Models	
Gasoline Tank Capacity - Gal.	16-1/2	16-1/2	16-1/2	16-1/2	12-1/2
Lubrication System - Type	Hudson Duo-flo Automatic	Hudson Duo-flo Automatic	Hudson Duo-flo Automatic	Hudson Duo-flo Automatic	Hudson Duo-flo Automatic
Pump Type	Oscillating Plunger	Oscillating Plunger	Oscillating Plunger	Oscillating Plunger	Oscillating Plunger
Pump Drive	Camshaft	Camshaft	Camshaft	Camshaft	Camshaft
Oil Cooling by	Baffles in Reservoir	Baffles in Reservoir	Baffles in Reservoir	Baffles in Reservoir	Baffles in Reservoir
Oil Filter	Screen	Screen	Screen Screen	Screen	Screen
Screen Mesh	40	40	40	40	40
Capacity-Total (Quarts)	*6	*6	*6	9	5-1/2
Refill Only (Quarts)	*5	*5	5	7	4-1/2
*After Car Number 43 845: Total (Quarts) - 5-1/2 Refill (Quarts) - 4-1/2					
<b>Pistons:</b>					
Type	Cam Ground	Cam Ground	Cam Ground	Cam Ground	Cam Ground
Material	Lo-Ex. Alum. Alloy	Lo-Ex Alum. Alloy	Lo-Ex Alum. Alloy	Lo-Ex Alum. Alloy	Lo-Ex Alum. Alloy
Weight (Oz.)	10.5	10.5	10.5	10.5	10.5
Length	3-3/16"	3-3/16"	3-3/16"	3-3/16"	3-3/16"
Pin Center to Top	1-11/16"	1-11/16"	1-11/16"	1-11/16"	1-11/16"
Clearance:					
Skirt	.002"	.002"	.002"	.002"	.002"
Top of Piston	.016"	.016"	.016"	.016"	.016"
Depth of Grooves	5/32"	5/32"	5/32"	5/32"	5/32"
Piston Pin Hole - Size	3/4"	3/4"	3/4"	3/4"	3/4"
Finish	Diamond Bore	Diamond Bore	Diamond Bore	Diamond Bore	Diamond Bore
<b>Piston Pin:</b>					
Type	Floating	Floating	Floating	Floating	Floating
Method of Locking	Snap Rings	Snap Rings	Snap Rings	Snap Rings	Snap Rings
Diameter	3/4"	3/4"	3/4"	3/4"	3/4"
Length	2-7/16"	2-7/16"	2-7/16"	2-7/16"	2-3/16"
Fit in Piston (at 200° F.)	.0003"	.0003"	.0003"	.0003"	.0003"
Fit in Rod	.0003"	.0003"	.0003"	.0003"	.0003"

	Hudson Terraplane Business Cars	Hudson Terraplane	Hudson Six	Hudson Eight	Hudson 112
<b>ENGINE -- (Cont'd)</b>					
Piston Rings:					
Material	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Joint-Type	Straight Cut	Straight Cut	Straight Cut	Straight Cut	Straight Cut
Compression Rings - No	2	2	2	2	2
Width	3/32"	3/32"	3/32"	3/32"	3/32"
Gap	.005"-.010"	.005"-.010"	.005"-.010"	.005"-.010"	.005"-.010"
Oil Rings - No	2	2	2	2	2
Width-					
Upper (above pin)	3/16"	3/16"	3/16"	3/16"	3/16"
Lower (below pin)	3/16"	3/16"	3/16"	3/16"	3/16"
Gap	.005"	.005"	.005"	.005"	.005"
Valves and Tappets:					
Inlet Valve - Material	Silicon Steel	Silicon Steel	Silicon Steel	Silicon Steel	Silicon Steel
Head Outside Diameter	1-3/8"	1-3/8"	1-3/8"	1-1/2"	1-3/8"
Opening	1-1/4"	1-1/4"	1-1/4"	1-3/8"	1-1/4"
Valve Lift	11/32"	11/32"	11/32"	11/32"	11/32"
Stem Length	5-11/32"	5-11/32"	5-11/32"	5-3/32"	5-11/32"
Stem Diameter	11/32"	11/32"	11/32"	11/32"	11/32"
Exhaust Valve - Material	Silchrome Steel	Silchrome Steel	Silchrome Steel	Silchrome Steel	Silchrome Steel
Head Outside - Diameter	1-3/8"	1-3/8"	1-3/8"	1-3/8"	1-3/8"
- Opening	1-1/4"	1-1/4"	1-1/4"	1-4"	1-1/4"
Valve Lift	11/32"	11/32"	11/32"	11/32"	11/32"
Stem Length	5-11/32"	5-11/32"	5-11/32"	5-3/32"	5-11/32"
Stem Diameter	1-1/32"	1-1/32"	1-1/32"	1-1/32"	1-1/32"
Valve Stem Guides	Removable	Removable	Removable	Removable	Removable
Valve Guide Length	2-9/16"	2-9/16"	2-9/16"	2-9/16"	2-9/16"
Top of Guide to Top of Block	1-1/16"	1-1/16"	1-1/16"	15/16"	1-1/16"
Valve Spring Pressure	44 lbs.@ 2" - All Models 102 lbs@1-21/32" - All Models				
<b>SPRINGS</b>					
Front - Type	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic
Length	33"	33"	37-1/2"	37-1/2"	32-1/2"
Width 1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	
No. of Leaves	10	9	10	10	9
Shackle Location	Front	Front and Rear	Front and Rear	Front and Rear	Front
Shackle Type	Self-Adjusting	Self-Adjusting	Self-Adjusting	Self-Adjusting	Self-Adjusting
Rear - Type	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic
Length	52-1/2"	52-1/2"	52-1/2"	52-1/2"	48"
Width 1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	
No. of Leaves	15 <sup>1</sup>	10	10	10	8
Shackle Location	Rear	Rear	Rear	Rear	Rear
Spring Covers	No	Yes <sup>2</sup>	Yes	Yes	No
Lubricant - Leaves	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant
Shackles	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant	Visc. Chassis Lubricant

<sup>1</sup>Except Utility Coupe, Utility Coach and Sedan which have 10 Leaves.<sup>2</sup>None on Series 81 Models.

	Hudson Terraplane Business Cars	Hudson Terraplane	Hudson Six	Hudson Eight	Hudson 112
<b>SHOCK ABSORBERS</b>					
Type	Hyd. Direct	Hyd. Direct	Hyd. Direct	Hyd. Direct	Hyd. Direct
Capacity - Front	5 ounces	5 ounces	6-1/4 ounces	6- 1/4 ounces	5 ounces
- Rear	5 ounces	5 ounces	6-1/4 ounces	6- 1/4 ounces	5-1/2 ounces
<b>STEERING GEAR</b>					
Type	Worm and Roller Tooth	Worm and Roller Tooth	Worm and Roller Tooth	Worm and Roller Tooth	Worm and Roller Tooth
Ratio	18.2	18.2	18.2	18.2	16.4
Adjustments:					
Worm Shaft	Shims	Shims	Shims	Shims	Shims
Cross Shaft	Adj. Screw	Adj. Screw	Adj. Screw	Adj. Screw	Adj. Screw
Gear Mesh	Adj. Screw	Adj. Screw	Adj. Screw	Adj. Screw	Adj. Screw
Steering Wheel Height	Spacer	Spacer	Spacer	Spacer	Spacer
Lubricant - Summer and Winter	SAE 90 E. P.	SAE 90 E. P.	SAE 90 E. P.	SAE. 90 E. P.	SAE 90 E. P.
<b>TIRES</b>					
Size - Standard - 4 Ply	16" x 6.00"	16" x 6.00"	16" x 6.00"	16" x 6.50"	16" x 5.50"
- Optional - 4 Ply		15" x 7.00"	15" x 7.00"	15" x 7.00"	
- 6 Ply	16" x 6.50"				16" x 5.50"
Air Pressure - 16" x 6/00"					
- Front / Rear	24 / 32	24 / 32	24 / 32	24 / 32	
Air Pressure - 15" x 7.00"					
- Front / Rear	22 / 28	22 / 28	22 / 28	22 / 28	
Air Pressure - 16" x 5.50"					
- Front / Rear					24 / 32
<b>TRANSMISSION</b>					
Location	Unit	Unit	Unit	Unit	Unit
Speeds - Forward	3	3	3	3	3
Speeds - Reverse	1	1	1	1	1
Main Drive Gear - Type	Helical	Helical	Helical	Helical	Helical
Countershaft Gear - Type	Helical	Helical	Helical	Helical	Helical
Countershaft Sec. -Type	Helical	Helical	Helical	Helical	Helical
Mainshaft Sec. Gear - Type	Helical	Helical	Helical	Helical	Helical
Gear Ratio					
Low	2.42	2.42	2.42	2.42	2.4 2
Second	1.61	1.61	1.61	1.61	1.61
High	1	1	1	1	1
Reverse	2.99	2.99	2.99	2.99	2.99
Lubricant - Summer	SAE 90 E. P.	SAE 90 E. P.	SAE 90 E. P.	SAE 90 E. P.	SAE 90 E. P.
Winter	SAE 80 E. P.	SAE 80 E, P.	SAE 80 E. P.	SAE 80 E. P.	SAE 80 E. R.
Capacity (Pints)	3	3	3	3	3
Bearings:					
Mainshaft Pilot	Ball	Ball	Ball	Ball	Ball
Mainshaft Bearings	Ball	Ball	Ball	Ball	Ball
Mainshaft Pocket Bearing	Roller	Roller	Roller	Roller	Roller
Mainshaft Pocket Thrust Brg.	Ball	Ball	Ball	Ball	Ball
Countershaft Brg. -Type	S. B. Babbitt	S. B. Babbitt	S. B. Babbitt	S. B. Babbitt	S. B. Babbitt
Size - Front	.812"	.812"	.8121"	.812"	.812"
- Rear	.812"	.812"	.812	.812"	.812"
- Clearance	.0005"	.0005"	.0005"	.0005"	.0005"

	Hudson Terraplane Business Cars	Hudson Terraplane	Hudson Six	Hudson Eight	Hudson 112
<b>(TRANSMISSION - Cont'd)</b>					
Second Speed M. S. Gear					
Type	S. B. Babbitt	S. B. Babbitt	S. B. Babbitt	S. B. Babbitt	S. B. Babbitt
Diameter	2.188"	2.188"	2.188"	2.188"	2.188"
Clearance	.0005"	.0005"	.0005"	.0005"	.0005"
End Play	.009"	.009"	.009"	.009"	.009"
Reverse Idler Bearings					
Diameter	.683"	.683"	.683"	.683"	.683"
Clearance	.003"	.003"	.003"	.003"	.003"
Mainshaft End Play					
Adjustment	Shims	Shims	Shims	Shims	Shims
Shim Location	Frnt. Brg. Cap	Frnt. Brg. Cap	Frnt. Brg. Cap	Frnt. Brg. Cap	Frnt. Brg. Cap
Countershaft End Play					
Adjustment	Shims	Shims	Shims	Shims	Shims
Location	Rear Brg. Cap	Rear Brg. Cap	Rear Brg. Cap	Rear Brg. Cap	Rear Brg. Cap

**WHEELS**

Type	Steel Disc	Steel Disc	Steel Disc	Steel Disc	Steel Disc
Rim Type	Drop Base	Drop Base	Drop Base	Drop Base	Drop Base
Rim Size - Standard	16" x 4.00"	16" x 4.00"	16" x 4.00"	16" x 4.50"	16" x 3.50"
- Optional	15" x 5.00"	15" x 5.00"	15" x 5.00"	15" x 5.00"	
Bolts per Wheel	5	5	5	5	5
Hub Type	Demountable	Demountable	Demountable	Demountable	Demountable

**CHASSIS AND GENERAL DIMENSIONS**

Tread - Front	56"	56"	56"	56"	56"
- Rear	59-1/2"	59-1/2"	59-1/2"	59-1/2"	59-1/2"
Road Clearance					
Front Axle - Center	8-9/16"	8-9/16"	8-9/16"	8-9/16"	7-15/16"
Rear Axle - Center	8-7/8"	8-7/8"	8-7/8"	8-7/8"	7-11/16"
Station Wagon - 117" WB		192-1/16"			

**Overall Length (Including Bumpers)**

5 Passenger Closed Cars	194-3/16"	194-3/16"	198-9/16"	198-9/16"	187-1/2"
Coupe	194-3/16"	194-3/16"	198-9/16"	198-9/16"	187-1/2"
Cab and Chassis - 117" W. B.		179-15/16"			
Cab and Chassis - 124" W. B.	186-15/16"				
Cab Pickup - 117"-124" W. B.		202-9/16"			
Panel Delivery - 117"-124" W. B.	204-5/16"				

**Overall Height (No Load)**

5 Pass. Closed Cars	70-1/2"		70-1/2"	70-1/2"	70-1/2"
	70"				
Coupe	69-5/8"		70-1/2"	70-1/2"	70-3/4"
	68-1/2"				
Coupe Convertible		70-1/2"	70-1/2"	70-1/2"	68"
Brougham - Convertible		70-1/2"	70-1/2"	70-1/2"	67-3/4"
Cab and Chassis (Loaded)	68-1/4"				
Panel Delivery - 117" W. B.	76-5/8"				
Station Wagon	75"				
Overall Width	72"	72"	72"	72"	72"
Turning Radius	20' 3"	20' 3"	21' 3"	21' 3"	20' 6"