

1934

HUDSON
&
TERRAPLANE

TECHNICAL INFORMATION HANDBOOK

1934 SERVICE INFORMATION AND ADJUSTMENTS

	<i>Terraplane Six 112" W. B.</i>	<i>Terraplane Six 116" W. B.</i>	<i>Hudson Eight 116" W. B.</i>	<i>Hudson Eight 123" W. B.</i>
<i>Starting Serial No. (U. S. Plant)</i>	373000	21500	950000	252000
<i>Starting Engine No. (All Plants)</i>	48000	48000	30000	30000
<i>Starting Serial No. (Canadian Plant)</i>	52000	76000	1300	8100

FRONT AXLE

Type	Elliot	Elliot	Elliot	Elliot
Caster (Actual on Car)	2-1/2 ⁰ to 3-1/2 ⁰	2-1/2 ⁰ to 3-1/2 ⁰	2-1/2 ⁰ to 3-1/2 ⁰	2-1/2 ⁰ to 3-1/2 ⁰
Max. Variation Right and Left Ends.	1/2 deg.	1/2 deg.	1/2 deg.	1/2 deg.
Camber	1-3/4 ⁰ to 2-1/4 ⁰	1-3/4 ⁰ to 2-1/4 ⁰	1-3/4 ⁰ to 2-1/4 ⁰	1-3/4 ⁰ to 2-1/4 ⁰
Toe-in	0-1/8"	0-1/8"	0-1/8"	0-1/8"
Spindle Pin Inclination (Angle with Spring Pad)				
Transverse	7 deg.	7 deg.	7 deg.	7 deg.
Forward	2 deg.	2 deg.	2 deg.	2 deg.
Steering Spindle Pin Diameter	3/4"	3/4"	3/4"	3/4"
Steering Spindle Thrust Bearing	Ball	Ball	Ball	Ball
Wheel Bearing Type	Taper Roller	Taper Roller	Taper Roller	Taper Roller
End Play	.001"-.003"	.001"-.003"	.001"-.003"	.001"-.003"
Tie Rod Joint - Type	Ball Bearings	Ball Bearings	Ball Bearings	Ball Bearings
Tie Rod Adjustment	Screw	Screw	Screw	Screw
To Adjust Tie Rod				
Turn Clockwise-To (As seen from right)	Lengthen	Lengthen	Lengthen	Lengthen
Turn Counter Clockwise To (As seen from right)	Shorten	Shorten	Shorten	Shorten

REAR AXLE

Type	Semi-Floating	Semi-Floating	Semi-Floating	Semi-Floating
Ratio	4.11	4.11	4.11	4.11
Pinion Bearings				
Type	Roller	Roller	Roller	Roller
Adjustment	Shim	Shim	Shim	Shim
End Play	.000"-.001"	.000"-.001"	.000"-.001"	.000"-.001"
Differential Bearings				
Type	Roller	Roller	Roller	Roller
Adjustment.	Screw	Screw	Screw	Screw
End Play	.009" Tension	.009" Tension	.009" Tension	.009" Tension
Wheel Bearings				
Type	Roller	Roller	Roller	Roller
Adjustment	Shim	Shim	Shim	Shim
End Play	.004"-.010"	.004"-.010"	.004"-.010"	.004"-.010"
Pinion and Gear				
Adjustment	Shim	Shim	Shim	Shim
Lash in Gears	.0005"-.003"	.0005"-.003"	.0005"-.003"	.0005"-.003"
Lubrication				
Quantity (Pints)	3	3	3	3

	<i>Terraplane</i>	<i>Terraplane</i>	<i>Hudson</i>	<i>Hudson</i>
	<i>Six</i>	<i>Six</i>	<i>Eight</i>	<i>Eight</i>
	<i>112" W. B.</i>	<i>116" W. B.</i>	<i>116" W. B.</i>	<i>123" W. B.</i>

BRAKES

Location	4 Wheels	4 Wheels	4 Wheels	4 Wheels
Operation by	Cables	Cables	Cables	Cables
Drum Diameter	9"	9"	9"	9"
Lining - Type	Moulded	Moulded	Moulded	Moulded
Width	1-3/4"	2-3/4"	2-3/4"	1-3/4"
Thickness	3/16"	3/16"	3/16"	3/16"
Length per Wheel	19-3/16"	19-3/16"	19-3/16"	23-13/16"
Pieces per Wheel	2	2	2	2

Adjustments:

Anchor Pin Movable	Radially	Radially	Radially	Radially
Upper Shoe	Eccentric	Eccentric	Eccentric	Eccentric
Lower Shoe	Screw	Screw	Screw	Screw

<i>Clearance:</i> Anchor Pin End of Shoes	.010"	.010"	.010"	.010"
Adj. Screw End of Shoes	.010"	.010"	.010"	.010"

CLUTCH

Type - Single Disc in Oil	Yes	Yes	Yes	Yes
Facing	Cork	Cork	Cork	Cork
No. Inserts (Cork)	90	90	108	108
Pilot Bearing	Ball	Ball	Ball	Ball
Throwout Bearing	Ball	Ball	Ball	Ball

Lubrication:

Housing - Type	Hudsonite	Hudsonite	Hudsonite	Hudsonite
Quantity	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
Throwout Bearing Quantity	1 Oz.	1 Oz.	1 Oz.	1 Oz.
Type of Fitting	Zerk	Zerk	Zerk	Zerk
Location of Fitting	Left Bell Housing	Left Bell Housing	Left Bell Housing	Left Bell Housing

ELECTRICAL EQUIPMENT

Coil (Ignition):

Make:	Autolite	Autolite	Autolite	Autolite
Location	Inst-Panel	Inst-Panel	Inst-Panel	Inst-Panel

Distributor (Ignition):

Make: Autolite		*	*	
Drive	Camshaft	Camshaft	Camshaft	Camshaft
Advance	Automatic	Automatic	Automatic	Automatic
Breaker Point Gap.	.020"	.020"	.013"	.013"
Timing.	D. C.	D. C.	D. C.	D. C.
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-6-2-5-8-3-7-4	1-6-2-5-8-3-7-4
Lubrication	Lt. Motor Oil	Lt. Motor Oil	Lt. Motor Oil	Lt. Motor Oil
Quantity	Fill Cup	Fill Cup	Fill Cup	Fill Cup

* - IGP-4001A – 1934 Hudson exc. LT, LTS; TC-4102A – 1934 Hudson LT, LTS

Generator:

Make - Autolite				
Drive	V-Belt	V-Belt	V-Belt	V-Belt
Belt Adjustment	Swing Mounting	Swing Mounting	Swing Mounting	Swing Mounting
Regulation---Internal	Third Brush	Third Brush	Third Brush	Third Brush
External	Voltage Reg.	Voltage Reg.	Voltage Reg.	Voltage Reg.

<i>Terraplane</i>	<i>Terraplane</i>	<i>Hudson</i>	<i>Hudson</i>
<i>Six</i>	<i>Six</i>	<i>Eight</i>	<i>Eight</i>
<i>112" W. B.</i>	<i>116" W. B.</i>	<i>116" W. B.</i>	<i>123" W. B.</i>

ELECTRICAL EQUIPMENT – Generator (Cont'd)

Charging Rate	22 Amps.	22 Amps.	22 Amps.	22 Amps.
Lubrication	Motor Oil	Motor Oil	Motor Oil	Motor Oil
Quantity -each Bearing	2 Drops	2 Drops	2 Drops	2 Drops
Lamps:				
Bulb Voltage	6-8	6-8	6-8	6-8
Candle Power and Bases (Contact Single-S; Double D)				
Head	21-32-D	21-32-D	21-32-D	21-32-D
Parking	3-S	3-S	3-S	3-S
Dash Signals	3-D	3-D	3-D	3-D
Instruments	3-S	3-S	3-S	3-S
Stop and Tail	2-21-D	2-21-D	2-21-D	2-21-D
Dome	15-S	15-S	15-S	15-S
Fuse--Headlamp Circuit	20 Amps.	20 Amps.	20 Amps.	20 Amps.
Tail Lamp Circuit	20 Amps.	20 Amps.	20 Amps.	20 Amps.
Windshield Wiper Circuit	7-1/2 Amps.	7-1/2 Amps.	7-1/2 Amps.	7-1/2 Amps.
Generator Regulator	7-1/2 Amps.	7-1/2 Amps.	7-1/2 Amps.	7-1/2 Amps.
Spark Plugs:				
Size	14 mm	14 mm	14 mm	14 mm
Gap	.022"	.022"	.022"	.022"
Starting Motor:				
Make - Autolite				
Drive	Bendix	Bendix	Bendix	Bendix
Control	Solenoid	Solenoid	Solenoid	Solenoid
Lubrication	Motor Oil	Motor Oil	Motor Oil	Motor Oil
Quantity (Each Bearing)	2 Drops	2 Drops	2 Drops	2 Drops
Battery:				
Make	National	National	Exide	Exide
No. Plates	17	17	19	19
Capacity	100 Amp. Hrs.	100 Amp. Hrs.	120 Amp. Hrs.	120 Amp. Hrs.
Dimensions ---Length	10-9/16"	10-9/16"	11-13/16"	11-13/16"
Width	6-3/4"	6-3/4"	6-3/4"	6-3/4"
Height (Overall)	7-13/16"	7-13/16"	7-13/16"	7-13/16"
Terminal Grounded	Positive	Positive	Positive	Positive

ENGINE

Number of Cylinders	6	6	8	8
Arrangement	Vertical	Vertical	Vertical	Vertical
Bore	3"	3"	3"	3"
Stroke	5"	5"	4-1/2"	4 -1/2"
Piston Displacement	212	212	254	254
Taxable Horse Power	21.6	21.6	28.8	28.8
Actual Horse Power:				
Standard Compression	80 @ 3600	85 @ 3600	108 @ 3800	113 @ 3800
High Compression	89-1/2 @ 3600	89-1/2" @ 3600	121 @ 3800	121 @ 3800

	<i>Terraplane Six 112" W. B.</i>	<i>Terraplane Six 116" W. B.</i>	<i>Hudson Eight 116" W. B.</i>	<i>Hudson Eight 123" W. B.</i>
ENGINE (Cont'd)				
Compression Ratio:				
Standard	5.75	6.25	5.75	6.25
Optional	7.0	7.0	7.0	7.0
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4	1-6-2-5-8-3-7-4	1-6-2-5-8-3-7-4
Engine Mounting	Rubber	Rubber	Rubber	Rubber
Camshaft:				
Drive	Gear	Gear	Gear	Gear
Number of Teeth -				
Camshaft Gear	56	56	56	56
Crankshaft Gear	28	28	28	28
Timing Indicated by Marks on	Gears	Gears	Gears	Gears
Camshaft Bearings:				
Diameter and Length				
No. 1	2 x 1-3/16"	2 x 1-3/16"	2 x 1-3/8"	2 x 1-3/38"
No. 2	1-31/32 x 1-16" ^{ccc}	1-31/32 x 1-1/16"	2 x 1"	2 x 1"
No. 3	1-1/2 x 15/16"	1-1/2 x 15/16"	1-31/32 x 1-1/4"	1-31/32 x 1-1/4"
No. 4.			1-15/16 x 1"	1-15/16 x 1"
No. 5			1-1/2 x 1-1/2"	1-1/2 x 1-1/2"
Radial Clearance	.0015"	.0015"	.0015"	.0015"
End Play Prevented by	Spring	Spring	Spring	Spring
Connecting Rods:				
Material	D. F. Steel	D. F. Steel	D. F. Steel	D. F. Steel
Weight (Ounces)	29.4	29.4	29.4	29.4
Length (C to C) 8-3/16"	8-3/16"	8-3/16"	8-3/16"	
Lower End Bearing				
Diameter	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"
Clearance	.001"	.001"	.001"	.001"
End Play	.006"- .010"	.006"- .010"	.006"- .010"	.006"- .010"
Material	Spun Babbitt	Spun Babbitt	Spun Babbitt	Spun Babbitt
Upper End Bearing:				
Diameter	3/4"	3/4"	3/4"	3/4"
Length	15/16"	15/16"	15/16"	15/16"
Radial Clearance	.0003"	.0003"	.0003"	.0003"
Material	Bronze	Bronze	Bronze	Bronze
Cooling System:				
Circulation by	Pump	Pump	Pump	Pump
Capacity (Gallons)	4-1/2	4-1/2	5-3/4	5-3/4
Upper Radiator Hose - Length	9"	3-1/4"	7-5/8"	7-5/8"
- Diameter	1-9/16"	1-9/16"	1-9/16"	1-9/16"
Lower Radiator Hose - Length	9"	3-1/4"	3-1/4"	3-1/4"
- Diameter	1-9/16"	1-9/16"	1-1/2"	1-1/2"
Pump Drive	V-Belt	V-Belt	V-Belt	V-Belt
Fan Drive	Pump Shaft	Pump Shaft	Pump Shaft	Pump Shaft
Belt Adjustment	Generator Mount'g	Generator Mount'g	Generator Mount'g	Generator Mount'g
Pump Bearing Type	Bound Brook	Bound Brook	Bound Brook	Bound Brook
Diameter	3-5/64"	3-5/64"	3-5/64"	3-5/64"

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ENGINE (Cont'd)

Crankshaft:

Type	Fully Compensated	Fully Compensated	Fully Compensated	Fully Compensated
Number of Bearings	3	3	5	5
Bearing Material	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"	2-9/32" x 1-5/8"	2-9/32 x 1-5/8"
No. 2	2-3/8" x 1-3/4"	2-3/8" x 1-3/4"	2-5/16" x 1-3/8"	2-5/16" x 1-3/8"
No. 3	2-13/32" x 2-3/8"	2-13/32" x 2-3/8"	2-11/16" x 1-7/8"	2-11/16" x 1-7/8"
No. 4			2 3/8" x 1-3/8"	2 3/8" x 1-3/8"
No. 5			2-13/32" x 2"	2-13/32" x 2"
End Play Taken by Bearing No.	2	2	3	3
Bearing End Play	.006--.012"	.006"--.012"	.006"--.012"	.006"--.012"
Bearing Clearance	.001"	.001"	.001"	.001"
Adjustment Type	Shim	Shim	Shim	Shim

Fuel System:

Carburetor - Make - Carter	W1-281S ¹	W1-295S ²	W 1 -299S ³	W2-282S
- Type	Down Draft	Down Draft	Down Draft	Down Draft
- Size	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Super Type	Down Draft - Duplex	Down Draft - Duplex	Down Draft - Duplex	Down Draft - Duplex
Size	1"	1"	1"	1"
Heat Control	Automatic	Automatic	Automatic	Automatic
Choke Control	Automatic	Automatic	Automatic	Automatic
Fuel Delivered by	Pump	Pump	Pump	Pump
Pump Drive from Camshaft by	Cam	Cam	Cam	Cam
Air Cleaner and Silencer	A. C.	A. C.	A. C.	A. C.
Gasoline Tank Capacity (Gal.)	11-1/2	11-1/2	15-1/2	15-1/2

¹ W1-281S – Terraplane K, KS; ² W1-295S – Terraplane KS; ³ W1-299S Hudson LTS Challenger

Lubrication System:

Type - Hudson Duoflo Automatic	Yes	Yes	Yes	Yes
Pump Type	Oscillating Plunger	Oscillating Plunger	Oscillating Plunger	Oscillating Plunger
Pump Drive	Camshaft	Camshaft	Camshaft	Camshaft
Oil Cooling	Baffles in Reservoir	Baffles in Reservoir	Baffles in Reservoir	Baffles in Reservoir
Oil Filter	Screen	Screen	Screen	Screen
Capacity - Total (Quarts)	7	7	9	9
- Reservoir (Quarts)	5	5	7	7

Pistons:

Type	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
Weight (Oz.)	9.6	9.6	9.6	9.6
Length	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"
Clearance - Top of Skirt	.001-.0015"	.001-.0015"	.001-.0015"	.001-.0015"

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<i>112" W. B.</i>	<i>116" W. B.</i>	<i>116" W. B.</i>	<i>123" W. B.</i>

ENGINE – Piston (Cont'd):

Bottom of Skirt	.005-.001"	.005-.001"	.005-.001"	.005-.001"
Top of Piston	.016"	.016"	.016"	.016"
Depth of Grooves	5/32"	5/32"	5/32"	5/32"
Piston Pin Hole - Size	3/4"	3/4"	3/4"	3/4"
Finish	Diamond Bore	Diamond Bore	Diamond Bore	Diamond Bore

Piston Pin:

Type	Floating	Floating	Floating	Floating
Method of Locking	Snap Rings	Snap Rings	Snap Rings	Snap Rings
Diameter	3/4"	3/4"	3/4"	3/4"
Length	2-7/16"	2-7/16"	2-7/16"	2-7/16"
Fit in Piston (at 200° F.)	.0003"	.0003"	.0003"	.0003"
Fit in Rod	.0003"	.0003"	.0003"	.0003"

Piston Rings:

Material	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Joint - Type	Straight Cut	Straight Cut	Straight Cut	Straight Cut
Compression Rings - No.	2	2	2	2
Width	3/32"	3/32"	3/32"	3/32"
Gap	.009-.011"	.009-.011"	.009-.011"	.009-.011"
Oil Rings - No.	2	2	2	2
Width - Upper	1/8"	1/8"	1/8"	1/8"
- Lower	3/16"	3/16"	3/16"	3/16"
Gap	.009-.011"	.009-.011"	.009-.011"	.009-.011"

Valves and Tappets:

Inlet Valve - Material	Silicon Steel	Silicon Steel	Silicon Steel	Silicon Steel
Head - Outside Diameter	1-3/8"	1-3/8" 1-1/2"	1-1/2"	1-3/8"
Opening	1- 1/4"	1-1-4"	1-3/8"	1-3/8"
Valve Lift	11/32"	11/32"	11/32"	11/32"
Stem Length	5-11/32"	5-11/32"	5-3/32"	5-3/32"
Stem Diameter	5/16"	5/16"	5/16"	5/16"
Exhaust Valve - Material	Silicon Chrome Steel	Silicon Chrome Steel	Silicon Chrome Steel	Silicon Chrome Steel
Head - Outside Diameter	1-3/8"	1-3/8"	1-3/8"	1-3/8"
Opening	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Valve Lift	11/32"	11/32"	11/32"	11/32"
Stem Length	5-11/32"	5-11/32"	5-3/32"	5-3/32"
Stem Diameter	5/16"	5/16"	5/16"	5/16"
Valve Stem Guides	Removable	Removable	Removable	Removable
Valve Spring Pressure	53 lbs. @ 2" 104 lbs. @ 1-21/32"	53 lbs. 104 lbs.	53 lbs. 104 lbs.	53 lbs. 104 lbs.

SPRINGS

Front – Type	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic	Semi-Elliptic
Material	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel	Chrome Vanadium Steel
Length	31"	31"	31"	31"
Width	1-3/4"	1-3/4"	1-3/4"	1-3/4"
No. of Leaves	8	8	8	8
Shackle Location	Front	Front	Front	Front
Shackle Type	Self Adjusting	Self Adjusting	Self Adjusting	Self Adjusting

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STEERING GEAR

Type	Worm & Sector	Worm & Sector	Worm & Sector	Worm & Roller
Ratio	15	15	15	16.4
Adjustments:				
Worm Shaft	Shims	Shims	Shims	Shims
Cross Shaft	Set Screw	Set Screw	Set Screw	Set Screw
Gear Mesh	Eccentric	Eccentric	Eccentric	Eccentric
	Cover Screw	Cover Screw	Cover Screw	Cover Screw
Steering Wheel Height	Column Bracket	Column Bracket	Column Bracket	Column Bracket

TIRES

Size - Standard	17 x 5.50"	16 x 6.00"	16 x 6.25"	16 x 6.50"
- Optional	16 x 6.00"			
Air Pressure Minimum.- (Front/Rear)	28/30	22/28	22/28	22/26
Air Pressure 16x6.00 (Front/Rear)	22/28			

TRANSMISSION

Location	Unit	Unit	Unit	Unit
Speeds - Forward	3	3	3	3
Speeds - Reverse	1	1	1	1
Main Drive Gear Type	Helical	Helical	Helical	Helical
Countershaft Gear Type	Helical	Helical	Helical	Helical
Countershaft Second Type	Helical	Helical	Helical	Helical
Mainshaft Second Gear Type	Helical	Helical	Helical	Helical
<i>Gear Ratios:</i>				
Low	2.42	2.42	2.42	2.42
Second	1.61	1.61	1.61	1.61
Reverse	3.30	3.30	3.30	3.30
Free Wheeling	No	No	No	No
Lubricant Capacity - Pints	3	3	3	3
<i>Bearings:</i>				
Mainshaft Pilot	Ball	Ball	Ball	Ball
Mainsbaft Bearings	Ball	Ball	Ball	Ball
Mainshaft Pocket Bearing	Roller	Roller	Roller	Roller
Countershaft Bearings - Type	Steel Backed	Steel Backed	Steel Backed	Steel Backed
	Babbitt	Babbitt	Babbitt	Babbitt
Size - Front	.812"	.812"	.812"	.812"
Rear	.812"	.812"	.812"	.812"
Clearance	.0005"	.0005"	.0005"	.0005"
Second Speed M. S. Gear Type	Steel Backed	Steel Backed	Steel Backed	Steel Backed
	Babbitt	Babbitt	Babbitt	Babbitt
Diameter	2.188"	.2.188"	2.188"	2.188"
Clearance	.0005"	.0005"	.0005"	.0005"
End Play	.009"	.009"	.009	.009"
Reverse Idler Bearings	Bound Brook	Bound Brook	Bound Brook	Bound Brook
Diameter	.8075"	.8075"	.8075"	.8075"
	Clearance	.003"	.003"	.003" .003"
Mainshaft End Play	.006,009"	.006-009"	.006-.009"	.006-.009"

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TRANSMISSION (Cont'd)

Adjustment	Shims	Shims	Shims	Shims
Shim Location	Front Bearing Cap	Front Bearing Cap	Front Bearing Cap	Front Bearing Cap
Countershaft End Play	.005-.008"	.005-.008"	.005-.008"	.005-.008"
Adjustment	Shims	Shims	Shims	Shims
Location	Rear Bearing Cap	Rear Bearing Cap	Rear Bearing Cap	Rear Bearing Cap

WHEELS

Type	Wire	Wire or Wire	Artillery	Artillery or Wire
Rim Type	Drop Base	Drop Base	Drop Base	Drop Base
Rim Size - Standard.	17x3.25"	16x4.00"	16x4.00"	16x4.50
Optional	16x4.00'			
Hub Type	Demountable	Demountable	Demountable	Demountable

CHASSIS AND GENERAL DIMENSIONS

Overall Length (Including Bumpers)	Coupe 190"	Coupe 194"	Coupe 197"	
Wheel Base	112"	116"	116"	123"
Tread - Front	56"	56"	56"	56"
Rear	56"	56"	56"	57½"
Road Clearance - Front Axle	8 ¹ / ₈ "	8 ¹ / ₈ "	8 ¹ / ₈ "	8 ¹ / ₈ "
Rear Axle	8½"	8½"	8½"	8½"
Clearance for Jack (One Tire Flat)				
Front Axle	5½"	5½"	5½"	5½"
Rear Axle	6 ⁵ / ₈ "	6 ⁵ / ₈ "	6 ⁵ / ₈ "	6 ⁵ / ₈ "