

1924 – 28 Studebaker Big 6
Specifications
Motor Maintenance Data Book
And Flat Rate Manual
1928 Edition

Manual Data

Personal Notes*

Front Axle

Camber (in.)	2
Caster (deg.)	0
Gather (in.)	3/8
King Pin Angle (deg.)	4 3/4
Wheel Bearing Number (inner)	3381-3331
Wheel Bearing Type (inner)	Roller
Wheel Bearing Number (outer)	2681-2631
Wheel Bearing Type (outer)	Roller
Axle Bush ID & OD (in.)	13/16 X 1 1/16
Axle Bush Length (in.)	1 3/8 & 1 1/16
Tie Rod ID & OD (in.)	5/8 X 7/8
Tie Rod Bushing Length (in.)	7/32
Make of Axle	Studebaker

Rear Axle

Make of Axle	Studebaker	
Type of Axle	1/2 F	1/2 Floating
Gear Ratio	4.08	
Factory Part Number	32784	
Bevel or Worm Drive	SB	Spiral Bevel
Type of Bearing	Roller	
Factory Part Number	43181	
Factory Part Number Pinion	107204	

Brakes – Rear External

Lining Thickness (in.)	3/16
Lining Width (in.)	2 1/2
Lining Length (in.)	150

Brakes – Transmission Brake

Lining Thickness (in.)	3/16
Lining Width (in.)	3
Lining Length (in.)	25

Front Wheel Brake Drum #	114595
Rear Wheel Brake Drum #	114596

Body

Running Board # - Right 112482
Running Board # - Left 112483

Body (contd.)

Front Fender # - Right 109831
Front Fender # - Left 109832

Rear Fender # - Right 215290
Rear Fender # - Left 215291

Running board Splasher # - Right 109655
Running board Splasher # - Left 109656

Clutch

I-D 8 ¾
O-D 12
Thickness 5/32
No. Per Car 2
Make of Throwout Brg. Studebaker
Factory Part Number 109146

Connecting Rod Bearing

Make of Engine Studebaker
Type of Bearing Pou. Poured
Factory Part Number 109030
Rod Assembly Removed Above

Piston & Pin

Make of Engine Studebaker
Material of Piston CI Cast Iron
Factory Piston Number 112705
Factory Piston Pin Number 106499

Piston Rings

Number of Rings per Piston 4
Width of Rings (in.) 3/16
Factory Part Number 39401

Radiator

Make McCord
Type of Core VT Vertical Tube
Capacity (gal.) 4 ¾
Type of Cooling P Pump
Factory Part Number – Core 112516
Factory Part Number – Shell 112517

Crankcase

Make of Engine	Studebaker	
Upper Case Material	Ir.	Iron
Lower Case Mateial	PS	Pressed Steel

Main Bearings

Number of Main Bearings	4
Offset In.	No
Front Bearing Number	112066
Middle Bearing Number	112068
Rear Bearing Number	112069

Valves

Make of Engine	Studebaker	
Valve Arrangement	L	
Valve Head Material	A St.	Alloy Steel
Tappet Clearance Inlet (in.)	0.006 H	
Tappet Clearance Outlet (in.)	0.006 H	
Inlet Opens	7 ½ A	
Exhaust Closes	11 A	
Factory Part Number Inlet	32090	
Factory Part Number Outlet	32090	
Factory Part Number Valve Guide	16727 Inlet	
Factory Part Number Valve Guide	16727 Outlet	

Cylinders

Make of Engine	Studebaker
Number of Cylinders	6
Bore & Stroke (in.)	3 7/8 X 5

Headlamps

Lens Diameter (in.)	9 ½	
2 – Filament Bulb	Yes	Mine, Single Filament

Generator

Charging Rate Hot	12	
Charging Rate Cold	14	
Armature Speed	2000	
Make	Wagner or Remy	Mine, Wagner – Type S-508

Starting Motor

Battery to Motor Cable Part No.	109707	
Battery Amp Hrs.	111	
Make	Wagner or Remy	Mine, Wagner – Type S-503

Distributor

Breaker Point Gap (in.)	0.025	I added this category head
Spark Advance Degree	DC	
Make	----	Mine, Wagner K814, SN 5D

Front Springs

Factory Part Number 110923
Length (in.) 38
Factory Part Number Bushing 39569
Factory Part Number Bolt 109099

Rear Springs

Factory Part Number 112215
Length (in.) 56
Factory Part Number Bushing 109120D
Factory Part Number Bolt 109121

Chassis Lubrication System Zerk Mine, Alemite

Carburetor

Make Ball Mine, Penberthy Ball & Ball SV-29
Size 1 ½
Fuel Tank (gal.) 19

Oil Pump

Pump Type Ge Gear
Oil Pressure (psi.) 10
At Miles Per Hour 25

Propeller Shaft

Front Universal Type Metal
Rear Universal Type Metal
Type of Drive H (?)

Steering Gear

Make Studebaker
Type W & W Worm and Wheel
Steering Column Upper Bushing # 124052

Transmission

Make Studebaker
Clutch Gear Shaft or Brg. (?) No. 123061

Tires

Tire Size 32 X 6.75 Mine, Solid wheel,
BFG Silvertown
Power Expr. 6.50 X 20

Rim Size 19 X 5
Make of Rim Budd

Brake Drums

Diameter Drum Front Wheel (in.) 16
Diameter Drum Rear Wheel (in.) 16 5/16

* Personal Notes – These include translations and comments relative to “Mine”. Any comment starting with “Mine” relates to my 1925 Studebaker Big 6, Engine S/N EP 8358, Chassis S/N 2068136. This data was compiled by Stephen P. Upham III on 11-2-00. Any comments and / or corrections are welcome. Email address spu@spa.net