#### **Data Sheet- Cessna 172S**

## Weights

Aircraft Number	<b>Empty Weight</b>	<b>Empty Moment</b>	Useful Load
N692SP	1684.90 lbs	66,522.91	865.10 lbs

Maximum Weights	Normal	Utility
Ramp Weight	2558 lbs	2208 lbs
Takeoff Weight	2550 lbs	2200 lbs
Landing Weight	2550 lbs	2200 lbs
Baggage Weight	120 lbs.	empty
Area 1	120 lbs	empty
Area 2	50 lbs	empty

### **Powerplant**

Engine: Textron Lycoming IO-360, 180 BHP @ 2700 RPM. 4 Cylinders, Direct Drive, horizontally opposed, air cooled, fuel injected.

Oil: Full 8 qts.

Min for local flight 6 qts. Min for x-country 7 qts.

Grade and type Summer-100W50

Winter- 65W30

## **Fuel System**

Fuel: Approved Grades 100LL(blue), 100(green)

Total Fuel 56 gal.
Total Usable Fuel 53 gal.

System Description: The airplane is equipped with a standard fuel system consisting of two vented fuel tanks, a fuel tank selector valve, fuel strainer, and auxiliary fuel pump. Fuel flows by gravity from one or both tanks to the fuel selector, through a fuel strainer to the injector manifold. From the injector, the fuel flows to the cylinders and is mixed with air at the intake port. The fuel selector should be in the BOTH position for takeoff, climb, descent, landing, and maneuvers that involve prolonged slips and skids. Operation from either the LEFT or RIGHT position is reserved for level cruising flight only.

### **Landing Gear and Brakes**

System Description: Landing gear is fixed in the tricycle configuration with a steerable nosewheel. Nosewheel is steerable and differential braking allows for a tighter turn radius. Nose strut is an air-oil type shock. Each main gear is equipped with a hydraulically activated single disk brake on the inboard side of each wheel.

Tire Inflation: Mains 38 PSI
Nose 45 PSI

**Electrical System** 

Alternator- 28 volt, 60 ampere

Battery- 24 volt

System description: Power is supplied to most general electrical items through a split primary bus bar, with an essential bus wired between the two primaries to provide power for the master switch and annunciator circuits. Each primary bus bar is also connected to an avionics bus bar via a single avionics power switch. The avionics power switch should be turned off prior to starting the engine to prevent harmful transient voltages from damaging the avionics equipment. The ammeter shows a discharge or a charge on the battery and should remain at or near the zero indication after a brief charging period.

# **Pitot-Static System**

System description: The system is standard with a heated pitot head under the left wing and two static ports on either side of the nose cowling. The alternate static source is located on the panel above the throttle and supplies static pressure from inside the cockpit.

#### **Speeds**

BEST GLIDE SPEED		68 KIAS		
Stall in landing	Vso	40		
configuration		KIAS		
Stall in cruise	Vs1	48		
configuration		KIAS		
Rotation speed	Vr	55		
		KIAS		
Best angle of climb	Vx	62		
speed		KIAS		
Best rate of climb speed	Vy	74		
		KIAS		
Maneuvering speed	Va			

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Cessna

2550 lbs. 105 KIAS 2200 lbs. 98 KIAS 1900 lbs 90 **KIAS** 

Flaps extended Vfe

> 110 0-10° **KIAS** 10-30° 85 KIAS

172S Data Sheet

Max. structural cruising

speed **129 KIAS** Vno Enroute climb speed 75-85 KIAS Approach Speed 60-70 KIAS **163 KIAS** 

Never exceed speed Vne 15 knots

Demonstrated Crosswind

Component