

MOONEY M20J 205 Model Guide

The MOONEY M20J 205 is a single-engine piston aircraft. The supplied documents contain no airframe speeds, weights, range or fuel data. This guide covers only what they do show: an S-TEC System Sixty Two autopilot handbook and the Mooney M20J electrical schematics manual. Get the aircraft's own POH/AFM before buying.

KEY TAKEAWAYS

- No speeds, weights, range or fuel figures are in the supplied documents. Verify them in the aircraft's own POH/AFM.
- Electrical schematics exist for both 14 Volt and 28 Volt versions. Match the schematic to the airplane's serial number.
- If an S-TEC System Sixty Two autopilot is fitted, it has a documented pre-flight test. Confirm the aircraft passes it.
- The autopilot handbook must be carried in the aircraft and used with the FAA-approved AFM or AFMS.

ELECTRICAL SYSTEM RECORDS

The Mooney M20J Electrical Schematics Manual (DEC 1998) splits the schematics into envelopes A to H by serial number effectivity. Both 14 Volt and 28 Volt versions are listed. Optional equipment is not in the basic schematics. It is on the system installation drawings.

S-TEC SYSTEM SIXTY TWO AUTOPILOT

This rate-based autopilot has roll modes HDG, NAV, NAV APR, REV and REV APR. Its pitch modes are ALT HOLD, VS and GS. Autotrim, a yaw damper and a flight director are optional. Roll axis control must be active before pitch axis control. The handbook is the 3rd Edition, dated Jun 30 07.

WHAT TO CHECK ON INSPECTION

Run the autopilot pre-flight test with the engine running. Check that the roll and pitch servos engage and can be overridden by hand. If a yaw damper is fitted, check its servo too. If the turn coordinator has failed, the RDY annunciation will not appear and the autopilot will not operate.

SAFETY NOTES

- If a roll or pitch servo cannot be overridden, set the Autopilot Master Switch to OFF and do not use the autopilot.
- Learn the autopilot modes in VMC before using it under IFR.
- Limitations, aircraft-specific ground tests and emergency procedures are in the AFM or AFMS, not in the autopilot handbook.