



Centennial Aircraft Services, Inc. · 15955 SOUTH AIRPORT RD · BATTLE CREEK, Michigan 49015-7608 ·  
269-565-3200 · CRS#: W2OR467Y

**N46396****CESSNA, 172K, S/N: 17257239****April 26, 2023**

TACH: 643.27

Total Time: 2468.9

1. Troubleshoot GPS Loss, discovered that when comms are transmitting on frequencies in the 121 band it interferes with GPS signal. Re routed coax for comm and GPS antennas, installed notch filters on comm coax cables. Relocated and installed new Comant CI-122 VHF antenna IAW AC 43.13 2B. Relocated existing Rami antenna and mounted IAW RAMI inc Installation Instructions document number 27-1651-4B Dated Jan. 2019. VHF interference checks were performed and no faults were found. Installed (2) P/N 4-70-54 - 4-70 Notch Filter, Installed P/N CI-122 - VHF Nav Antenna.
2. Duplicated push to talk issue. Discovered message on the GNC "GNC needs service". Contacted Garmin and determined it was a failed unit. Sent to Garmin for RMA replacement and installed new unit IAW Garmin Maintenance Manual with ICA, GPS 175/GNX375/GNC355 Part 23 AML STL (Garmin Doc No. 190-02207-A2 Rev 3 dated March 1, 2023) Installed P/N 010-02232-51 - GNC 355 S/N: 5YR006113.
3. Troubleshoot vacuum leak. Found loose hose connection at the back of the attitude indicator. Added band clamp and tightened connection to the attitude indicator. Performed engine run and vacuum leak still present and audible. Existing attitude indicator was found to be leaking from the case around the unit face.



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4. Deleted vacuum pump PN: RA215CC SN: A23940, associated hoses, regulating valve PN: 133A-14, suction gauge PN: 1414-N1 SN: 9145, vacuum filter PN: D9-14-5 and ADI PN: C661001-0501 SN: 5823. Installed pump cover PN: 08-11778 and gasket PN: 08-12019 on engine. Installed new GI 275 PN: 011-04489-10 SN: 5MZ106467 IAW Garmin Aviation AML STC SA02658SE Revision 5 amended 15 March 2023 and Garmin Aviation Master Drawing List # 005-01208-41 Revision 20 dated 15 March 2023. Installed P/N 08-12019 - Cover Plate Gasket, Installed P/N 08-11778 - Lycoming cover plate, Installed P/N 010-02326-10 - GI 275 ADAHRS.
5. Tested Pitot/static and transponder system per FAR 91.411 and Part 43 appendix E and FAR 91.413 and Part 43 appendix F. GI 275 PN: 011-04489-10 SN: 5MZ106467 and SN: 5MZ106506 and GTX 327 P/N: 011-00490-00 S/N: 83705439 were tested and correlated to 18,000 feet.

With respect to the work performed, this avionics is approved for return to service. Details of work performed are on file with Centennial Aircraft Services, Inc. under work order: AV23273.

Nick Smith CRS W2OR467Y