

MAJOR REPAIR OR MAJOR MODIFICATION REPORT RAPPORT DE RÉPARATION MAJEURE OU DE MODIFICATION MAJEURE

INSTRUCTIONS

For instructions, see Standard 571 Appendix L - Pour les instructions, consulter l'appendice L à la norme 571

1. Aircraft - Aéronef	Make - Marque Piper	Model - Modèle PA28R-180
	Serial No. - N° de série 28R-30619	
2. Owner - Propriétaire	Name - Nom Guy Kember	Registration Marks Marques d'immatriculation C-GXYO

3. Type of Work - Type de Travail

Modification Repair - Réparation

4. Name and address of person or organization who accomplished the repair or modification
 Nom et adresse de la personne ou de l'organisme qui a effectué la réparation ou la modification

Tailwind Aviation Services
 244411 Airport Rd
 Tillsonburg, Ontario, Canada N4G 4H1

5. Description of work accomplished - Description des travaux exécutés

Removed the following equipment: Garmin GMA-340 PN: 011-00401-10 SN: 9673022, Garmin GNS-430 PN: 011-00280-10 SN: 97127003, Garmin GNS-530W PN: 011-01064-40 SN: 78413186, Garmin GTX-345 PN: 011-03302-00 SN: 3EG001219, Garmin GI-106A CDI PN: 013-00049-01 SN: 805-10724, Garmin GI-106A CDI PN: 013-00049-01 SN: D05-11278, Garmin GA35 GPS Antenna PN: 013-00235-00 SN: 99443, Garmin GA56 GPS Antenna PN: 011-00134-00 SN: 59402896, Attitude Gyro PN: 52D66 SN: Z944074F, Directional Gyro PN: 1U262-004-15 SN: T72001Q, STEC Turn Coordinator PN: 01260-0-0-14 SN: 0609-5341D, Altimeter PN: 12003 SN: 8199, VSI PN: 7000 SN: 1B765, Airspeed Indicator PN: SA-46-11 SN: 38498, Vacuum Pump PN: RAP215CC SN: A71360, Suction Gauge PN: 3-200-12 SN: B9897, Vacuum Regulator PN: 133A4 SN 1N, Vacuum Filter Inlet Assembly NPN NSN, Vacuum System Switching Manifold PN: 10059A SN: 0574, STEC Pitch Servo PN: 0107-P4 SN: 0608-16808CDEFGHJK, STEC Roll Servo PN: 0105-R9 SN: 0608-21275CEFGJ, STEC Pitch Trim Servo PN: 0105-8-T6 SN: 0611-21334CEFGJ, STEC-GPS Roll Steering Unit PN: 03976 SN: 0605-8767, STEC Pitch Computer PN: 01261-5-14 SN: 0609-5253, STEC GPSS/IHDG Switch PN: 03975 SN: 0607-4542, STEC Alt Pressure XDCR PN: 0111 SN: 0608-35738AA, Mid Continent GPS Annunciator PN: MD41-1484 SN: B04-11467, Tach PN: D1-112-5023 SN: 21138 - HOURS at removal 1612.8, Manifold Pressure Gauge NPN SN: 163, Engine Cluster PN: 436371-1-10 NSN, Engine Cluster PN: 436373-L12 NSN, EGT Gauge PN: 202A-1A SN: 098230, JPI FS450 PN: 450000-P SN: 07259, Hobbs Meter PN: 85094 SN: 08177, Guardian 452 CO Detector PN: 452-101-011 SN: 91876, Left & Right Fuel Quantity Transmitter NPN NSN, Davtron Clock PN: 803 SN: 07020, JPI EDM 730 PN: EGT-701-6C-OT-OP-A-F-R/M-L SN: 31200, JPI Tach Sensor PN: 420815-1 SN: 02310, JPI OIL Pressure Transducer PN: 306018 SN: 4728, JPI Manifold Pressure Sensor PN: 604010 SN: 02557, JPI OIL Temp Sensor PN: 400505 SN: 1000, JPI Oat Probe PN: 400510 SN: T55031, JPI EGT Probes QTY 4 PN: M-111 NSN, JPI CHT Probes QTY 4 PN: M-5050T NSN, JP Floscan 201 PN: 700900-1 SN: 00243, Beacon NPN NSN, Wingtip Strobe Packs PN: 01-0245229-10 & PN: 01-0265573-10 NSN, Whelen Wingtip Green Nav Light PN: 01-0771110-01 SN: 01447, Whelen Wingtip Red Nav Light PN: 01-0771110-02 SN: 00488, HID Taxi Light PN: RMD-2280-08 NSN, HID Module PN: RMD-2281-09A NSN, Precise Flight Pulse Light Controller PN: 1210/2405-2A SN: J06269, Brow Lighting Controller PN: UVPS-1 SN: 5383, Whelen Tail LED Light PN: 01-0771011-12 SN: 00243, VHF Com #1 Antenna PN: CI-248-5 SN: 4081398, VHF Com #2 Antenna PN: CI-248-5 SN: 4081394.

Installed Garmin GMA-345 PN: 011-03520-00 SN: 3Z0009411 IAW Garmin GMA-345 Installation manual 190-01878-02 Rev 6 dated July 2023.

Incorporated Garmin FAA STC SA02019SE-D & TCCA STC SA11-100 for the installation of Garmin GTN Xi Series Navigator. Installed Garmin GTN-750Xi IAW Garmin GTN-7XX Part 23 AML STC MDL 005-00533-C0 Rev 46 dated June 20, 2025 & Garmin GTN-750Xi Part 23 AML STC Installation Manual 190-01007-C0 Rev 13 dated June 2025.

Incorporated Garmin STC SB 25031 Rev C dated Oct 27, 2025 for the updating of Garmin GTN-750Xi SN: 5FR056340 Software to version 21.02.

Incorporated Garmin FAA STC SA02018SE-D for the installation of Garmin GPS Antennas. Installed Garmin GA35 #1 (GTN-750Xi) Antenna & Garmin GA35#2 (GNC-33) IAW Garmin GPS STC Installation Manual 190-01284-00 Rev E dated March 2024.

Installed Comant CI-121 VHF Com #1 Antenna IAW Comant Installation Instructions A12122 rev A dated June 14, 2019.

Incorporated Garmin FAA STC SA02636SE & TCCA STC SA23-57 For the installation of Garmin GNC-355 Navigation System with VHF Com. Installed Garmin GNC-355 IAW Garmin GNC-355 Part 23 AML STC MDL 005-01206-A1 Rev 17 dated Oct 19, 2023 & Garmin GNC 355 Part 23 AML STC Installation Manual 190-02207-A5 Rev 6 dated May 2023.

Garmin GNC-355 SN: 5YR008862 at software version 3.22.

Installed Comant CI-122 VHF Com Antenna IAW Comant Installation Instructions A12206 Rev A dated June 17, 2016.

Incorporated Garmin FAA STC SA01714WI & TCCA STC SA15-64 for the installation of Garmin GTX-345D ADS-B Out & In with Antenna Diversity. Installed Garmin GTX-345D & GAE IAW Garmin GTX 3X5 AML STC MDL 005-00734-04 Rev 23 dated May 31, 2024 & Garmin GTX-3XX part 23 AML STC Installation Manual 190-00734-10 Rev 17 dated May 2024.

Incorporated Garmin STC SB 24042 Rev B dated November 11, 2024 for the updating of Garmin GTX-345D SN: 51W001719 to main software version 2.85 & ADS-B Software version 3.51.

Installed RAMI AV-74 bottom antenna IAW RAMI AV-74 Installation Instructions 27-74-1 Rev H dated Sept 2020.

Installed RAMI AV-22 Top Antenna IAW RAMI AV-22 Installation Instructions 27-3414-1 Rev E dated January 2013.

Incorporated Garmin FAA STC SA01866WI & TCCA STC SA24-72 for the installation of Garmin GFC-500 Autopilot. Installed Garmin GFC-500 components IAW Garmin GFC-500 Part 23 AML STC MDL 005-01264-00 Rev 95 dated December 20, 2024, Garmin GFC-500 Part 23 AML STC Installation Manual 190-02291-00 Rev 29 dated Oct 31, 2024, Garmin GFC-500 Piper PA28R Gain Addendum 005-01470-28 Rev 6 dated August 25, 2023 & Garmin GFC-500 Piper PA28R Install Addendum 190-02291-28 Rev 4 dated May 4, 2020

Incorporated Garmin FAA STC SA02571SE & TCCA STC SA18-63 for the installation of Garmin G500TXi Integrated Avionics System. Installed Garmin G500TXi components IAW Garmin G500 TXi Part 23 AML STC MDL 005-00795-C2 Rev 38 & Garmin G500TXi Part 23 AML STC Installation Manual 190-01717-B3 Rev 30 dated July 2025.

Garmin G500TXi GDU1060 SN: 7FW001169 at software version 3.80.

Incorporated CIES FAA STC SA02511SE for the installation of replacement fuel quantity indicator sending units. Installed CIES left tank fuel sending unit & right tank fuel tank sending unit IAW CIES Installation Manual CC-TR-2840-031 Rev F Oct 20, 2020.

Incorporated Garmin FAA STC SA02658SE & TCCA STC SA20-88 for the installation of Garmin GI-275 Multi Function Display. Installed Garmin GI-275 MFD/Standby with backup battery IAW Garmin GI-275 Part 23 AML STC MDL 005-01208-41 Rev 27 dated July 2, 2025 & Garmin GI-275 Part 23 AML STC Install Manual 190-02246-10 Rev 21 dated July 2025.

Incorporated Garmin STC SB 25041 Rev A dated July 15, 2025 for updating Garmin GI-275 SN: 5MZ125539 to software version 3.42.

Installed Garmin GSB-15 IAW Garmin GSB-15 Installation Manual 190-00303-A3 Rev 6 dated March 2021.

Installed Mid Continent Digital Clock IAW Mid Continent Installation Manual 9018205 Rev H dated April 17, 2025.

Installed Whelen Orion 660 IAW Whelen Orion 660 Installation Guide 14D76.

Installed Whelen Orion 550 IAW Whelen Orion 550 Installation Guide 14D71.

Installed Whelen 360 LED Beacon IAW Whelen LED 360 Beacon Installation Instructions 14B92B.

Incorporated Whelen FAA STC SA00344BO for the installation of Whelen Parmethus Gen 3 LED PAR36. Installed Whelen G3 Taxi light IAW Whelen P35G3 Installation Guide 14E25B.

Incorporated Seaton Engineering FAA STC SA01861SE for the installation of landing light controller MaxPulse. Install Seaton Engineering MaxPulse controller PN: 9200-000-B IAW Seaton Engineering Max Pulse Installation Instructions 9150-001 Rev H dated Dec 19, 2019.

Incorporated Seaton Engineering FAA STC SA01800SE for the installation of MaxDim lighting controller. Installed Seaton Engineering MaxDim lighting controller PN: 9100-001-D IAW Seaton Engineering MaxDim Installation Instructions 9150-003 Rev B dated Dec 20, 2019.

Aircraft reweighed IAW Piper Aircraft weighing procedure. New aircraft empty weight: 1594 Lbs. New aircraft C of G: 86.33". New aircraft useful load: 906 Lbs.

Equipment list completed and provided to owner.

Electrical load analysis completed and provided to owner. Electrical loads for all phases of flight less than 80% of alternator capacity.

Compass swing completed IAW AC43.13-1B section 12-13.

Nov 11, 2025

Signature of person submitting the report  Signature de la personne soumettant le rapport

Date of completion - Date d'achèvement