

In this edition of "Tech Tips", we will cover Preventative Maintenance for the Air Conditioning part of the APU. If good PM is done each spring, there is no reason the A/C system shouldn't perform correctly all summer long. Regardless of version, the three items that need be checked every spring, on any eAPU are:

1. Confirm all refrigerant fittings are tight. If dirt is visible around a fitting or connection, it indicates it is leaking. When oil escapes, dirt collects in this oil. Correct any issues found.
2. Rinse out the condenser (and the entire eAPU) so it is certain to have the best heat transfer. And any corrosion is washed away. **DO NOT USE A PRESSURE WASHER.**
3. Confirm the air filter & the evaporator itself are clean. Then, perform the following:

Version 3.6 APUs

1. Confirm proper operation, & tightness of **ALL electrical connection points: Condenser Fan Relay, Pressure Switch, Start & Run Capacitors, Compressor.**
2. Check security of both top & bottom mounts of Compressor.
3. Confirm Condenser Fan operates when compressor is on, & shuts off accordingly (confirms Condenser Fan Relay is operating correctly).
4. Confirm that the electrical connections are secure at UBB to APU harness connections.
5. Place gauge set on service ports (at the quick disconnect fittings), and confirm proper AC operation. Low side pressure should be between 10-30 PSIG, & high side between 130-180.
6. Confirm all electrical connections in the APU are clean, tight, & protected from corrosion.

Version 3.7 APUs

1. Confirm proper operation, & tightness of **ALL electrical connection points: Check all electrical connectors and confirm wires are seated, and each connector is locked to its mating connector.**
2. Check security of both top & bottom mounts of Compressor.
3. Operate A/C system, confirm with a set of gauges that condenser fan turns on at ~155 PSIG, & off at ~110 PSIG.
4. Confirm that the electrical connections are secure at UBB to APU harness connections.
5. Confirm battery separator & fuse covers are tight, **AFTER EVALUATING THEIR ELECTRICAL CONNECTIONS.**

As always, feel free to contact Idle Free Systems Technical Support in either of the way listed below with any questions or concerns regarding this Tech Tip, or any other question that may arise.

Technical Support team phone: (920) 206-9333 ext 1 Technical Support email: techsupport@idlefreesystems.com