



UNIVAIR AIRCRAFT CORPORATION

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ERCOUPE SERVICE BULLETIN NO. 36

THROTTLE CABLE INSPECTION

Engineering Aspects of this Bulletin are FAA Approved

DATE: September 1, 2014 Revision None

SUBJECT: Visual inspection of the throttle cable and housing for fatigue and possible cracking.

MODELS AFFECTED: Ercoupe 415-C (s/n 1 – 4423), or other Ercoupe models using a Shakespeare style push-pull throttle assembly.
All Alon A-2, A-2A aircraft
All Mooney M-10 aircraft

COMPLIANCE: Initial inspection required within the next 12 calendar months or annual inspection, whichever occurs first.

Recurrent inspection is required at each annual inspection.

Univair Aircraft Corporation Considers Compliance with this Service Bulletin Mandatory.

PERSONNEL: **IMPORTANT:** All work and inspections required by this Service Bulletin are to be performed by a properly rated and equipped certified mechanic or repair station with experience in the work, use of equipment, inspections, and repairs listed.

STATEMENT OF DIFFICULTY:

There was a single field report of the Ercoupe throttle cable assembly outer housing failing at the point where it is swaged onto the steel tube just behind the instrument panel. This is the Shakespeare type push – pull throttle cable, part number 415-51048.

This Service Bulletin does not apply to the later model Ercoupe and Forney aircraft that use the quadrant style throttle control.

When the integrity of this type of throttle control assembly is compromised, there may be a loss of control to the throttle shaft on the carburetor. This will result in the inability of the pilot to control the carburetor setting and thus, engine output.

Procedure:

The following procedure is used to verify the integrity of the throttle cable assembly:

1. Verify positive movement of the throttle control from the cockpit. i.e. When the throttle is pushed forward, the throttle arm on the carburetor moves accordingly. Likewise, when the throttle is pulled back, the throttle arm on the carburetor moves accordingly.
2. Inspect the throttle cable assembly behind the instrument panel, paying particular attention to that portion of the housing that is swaged, or crimped, onto the flexible housing. Check for any possible wear, cracking, or unusual bends in the housing. Inspect the entire length of the throttle control assembly. Pull on the flexible housing to verify the security of the swaged portion.
3. Insure that the hole where the cable goes through the firewall is properly sealed.
4. Inspect the throttle control assembly where it exits the firewall into the engine compartment. Again, check for any possible wear, cracking, or unusual bends in the housing.
5. If any irregularities are found, Univair recommends replacing the unit with a new one.
6. Insure that the throttle clamp, Ercoupe part number 415-40506 or Alon/Mooney part number A40709-1, is properly attached and retaining the throttle control as designed.

7. Verify that the throttle cable is securely fastened at the throttle arm on the carburetor.
8. When the throttle control assembly inspection has been accomplished, make the appropriate logbook entry stating that Ercoupe Service Bulletin 36 has been complied with.

CONTINUED MAINTENANCE:

Inspect and verify the integrity of the throttle cable assembly per Service Bulletin 36 during each annual inspection.

INFORMATION AND PARTS AVAILABILITY:

Contact Univair Aircraft Corporation for the following replacement parts:

Ercoupe throttle control assembly, part number 415-51048

Ercoupe throttle clamp, part number 415-40506

Alon throttle control assembly, part number F-51320

Alon throttle clamp, part number A40709-1 (supplied under Mooney part number 600318-001)