

GLIDING FEDERATION OF AUSTRALIA

AIRWORTHINESS DIRECTIVE GLIDERS:

GFA/AD 173 EIRIAVION OY 12

GLIDER TYPES AFFECTED:

PIK 20 E Serial numbers 20203-20259

REASON

Insufficient fuel flow

DESCRIPTION

There have been field reports of insufficient fuel flow, which occurs as rough running when the electric fuel pump is off.

This has been caused by too tight securing clamps on the fuel hose and dirt in the fuel line.

INSTRUCTIONS

1. Check that the clamps, securing the fuel line hoses, are in the right shape so they do not deform the hose and thus affect the inner diameter.
2. Check the type of the fuel filter. If the type is Mopar Part No. 2084467, then perform the steps 3, 4, 5, 6, 7 and 8.
3. Check the fuel filter connections if there are any possibilities for the filter to have cut pieces of the hose during the installation of the filter. If it can be seen that the hose is cut, the carburettor must be opened and the inlet needle cleaned. Lubricate the hose ends with oil and do not twist the hose when connecting the filter. Clean the fuel system by running fuel through the system with help of the electric fuel pump before the hoses are connected to the carburettors.
4. To ensure that the fuel flow is sufficient, a fuel flow test is to be made. Remove the fuel feed line, which comes from the electric fuel pump, at the Mikuni fuel pump on the engine pylon.
5. The fuel tank should be filled with ca 10 litres of fuel.
6. Measure the fuel flow by taking the time for a measuring can to be filled when the electric fuel pump is on. If the fuel flow is less than 35 litres/hour, the fuel system must be rechecked.
7. Change the fuel filter in the next 25 hours maintenance to a new filter P/N 20E-31-001a-11 (Purolator GF6/8S) which does not cut pieces from the hose.
8. Perform a test run. The engine must run at least 5600 rpm smoothly also when the electric fuel pump is off.

COMPLIANCE

Within the next five (5) hours of engine time or next maintenance, whichever occurs first and enter in log book.

This Directive is mandatory and is issued pursuant to Air Navigation Regulations under the delegated authority of the Secretary of the Department of Transport.

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