

Conversion hydraulic Ram Air Turbine test kit

RAT-conversion



Before
Model: AGE10600A/B/C



After
Model: HRT01



Before
Model: AE89415Z



After
Model: HFK02

Hycom RAT kit HRT01 and HFK02:

- suitable for Airbus RAT test as per AMM chapter 29-24
- listed in Airbus tool and equipment manual
- approved by Airbus on A318/319/320/321/330/340

RAT-conversion

Upgrade Ground Check Motor

The return hose of this tool (fig. 1) easily bends. Even stowing of the tool without bending is difficult. When performing a RAT test with a bended return hose it is possible to get high back pressure in the return line. Too high a back pressure can result in damaging the shaft seal of the motor. If not noticed in time and the motor is still on the RAT, the phosphate ester oil can affect the seal of the RAT gearbox, which can cause serious damage.

When connecting the ground check motor to the hydraulic power unit, engineers have to pull the hoses over the concrete of the hangar floor or ramp. The stainless steel wire on these hoses will be damaged and can injure the hands of the engineers.

To solve these problems many customers requested Hycom to upgrade this tool to their standard HRT01 (fig. 2).

The upgrade contains:

- new hydraulic pressure and return hose
- drain installed on hydraulic motor housing
- leak test on all components
- efficiency check of hydraulic motor
- new toolbox
- certification of the tool



Fig.1 – Before
Model: AGE10600A/B/C



Fig. 2- After
Model: HRT01

Trade-in of Flow Control Test Kit

Main problem with this tool (fig. 3) is that it works on batteries. Often it will be the case that the battery is flat. The many different power sources worldwide ask for separate adapters.

The high pressure gauge is mounted in the return line, which means that during the test the engineers cannot check whether the tool is pressurized or not.

When performing the RAT test on the single aisle, tool AGE11212 (check out unit) is also required, which means that one engineer needs to operate the flow control test kit while another checks the read out on the AGE11212.

Hycom offers a part exchange programme on the flow control test kit. The customer will get the Hycom tool HFK02 (fig.4) which includes the flow control test kit and check out unit.

Advantages:

- economic solution by trade-in
- HFK02 uses the power source of the aircraft
- accurate flow control
- pressure gauge in pressure line for visual check
- one tool replaces two tools, so only one engineer is required to adjust and check readings



Fig. 3 – Before
Model: AE89415Z



Fig. 4 – After
Model: HFK02

the
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