

New grease type for labyrinth Antenna Unit

for improved protection against ingress of water and dust

To avoid water and dust entering the Artemis MK 5 Antenna Unit alongside the rotary antenna shaft, a grease filled labyrinth is used.

To further improve the effectiveness of this labyrinth, from Antenna Unit with serial number 09-02119 Shell Albida HD 2 grease is used.

Characteristics of Shell Albida HD 2 grease include: temperature range -20°C to +150°C, excellent mechanical stability even under vibrating conditions, excellent water resistance and a high dropping point (260°C). Shell Albida HD 2 grease is lead and nitrite free and is therefore safe for handling and safe for the environment.

To give earlier delivered Antenna Units the same improved protection against ingress of water and dust, it is advised that Shell Albida HD 2 grease is also applied to the labyrinth of these units. This applies to Antenna Units with a serial number lower than 09-02119.

Furthermore, it is advised that Shell Albida HD 2 grease is applied to the labyrinth of every Antenna Unit every year. New Antenna Units will have a label with this advice adjacent to the small screw in the antenna mounting flange which gives access to the labyrinth.

Syringes with Shell Albida HD 2 grease complete with an instruction on how to apply grease to the labyrinth are available from our world-wide Artemis agent Reson B.V. in Rotterdam.

Applying grease to the labyrinth of the Artemis MK5 Antenna Unit

1. Remove the small screw M4x8 mm socket-head screw in the antenna mounting flange of the Antenna Unit, using a 3 mm hexagon key or driver. See figure 1 overleaf.
2. Stick the tip of the syringe into the screw hole (see figures 2 and 3 overleaf) and gently push grease in until grease comes out the gap between the rotary antenna shaft and the fixed part of the Antenna Unit.
3. Switch power to the Antenna Unit off (or set the Operating Mode to Open Loop) and turn the antenna mounting flange by hand about 120 degrees and repeat step 2.
4. Turn the antenna mounting flange by hand another 120 degrees and repeat step 2.
5. Wipe any excess grease with a cloth.

Distribution

CHL NETHERLANDS B.V.	: Production, Engineering, Sales, Documentation
Reson B.V.	: Technical Department, Sales
Other	: [All Artemis MK5 users (via Reson B.V.)]

Artemis MK5 Engineering Note EN5-14

- Put the screw with washer back in the grease filling hole and tighten it. See note below.
- Note the month that grease was applied and plan the next application of grease (in a year's time).

Note concerning Antenna Units with a serial number lower than 09-02119:

After the application of grease use the stainless steel M4x8 mm socket-head cap screw and M4 stainless steel washer supplied with the syringe with grease to cover the grease filling hole if a nylon screw was fitted.

