



Technical Support

TECHNICAL NOTE

Technical Note TN-853 TMAA02-01 Rugged Microphone Rework Instructions

31 March 2004

Applicability

This Technical Note relates to the recent fault found in the TM8115's Rugged Microphone, the TMAA02-01, and suggested rework.

Information

Microphone Fault description

Recently a small number of TMAA02-01 Rugged fist microphones became difficult to activate transmit mode after a few weeks of service.

The microphones were tested and the fault traced to a shortening of the PTT lever boss length of 0.5mm by the supplier.

The shortened length of this boss manifested as two problems:

- The point of microswitch transmit activation was much greater than the required 50% of travel.
- It required users to apply more than the expected pressure to keep the microswitch keyed.

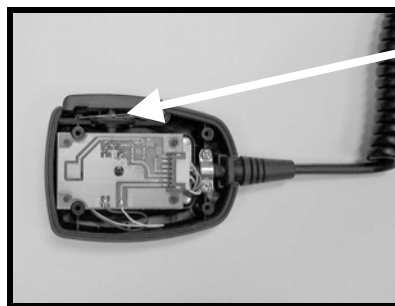
The microphones most likely to fail for this issue are identifiable as the un-badged version. These have been shipped since the TM8100 product launch.

In response to this issue; from April 2004 the un-badged (but reworked) version of the rugged microphone will become the TMAA02-04. These will have a date code on the rear housing when reworked.

Reworking un-badged Microphones

If an existing un-badged TMAA02-01 microphone is identified with the fault highlighted here the following suggested rework can be employed.

- Source replacement PTT levers from TEL. The IPN is **311-01055-00**.
- Remove the four screws from the rear housing and remove the existing PTT lever from the front housing
- Replace the PTT lever, ensuring the rubber seal/plunger (as arrowed below) is correctly seated in the front housing guide before replacing the rear housing. This is important as it will affect the IP54 rating.



The correct PTT lever will be identifiable at any time by the letter 'B' marked inside the PTT lever.

Factory shipped version

From 25 March 2004 all TMAA02-01 Rugged Microphones shipped from TEL will have the corrected version of the Press-To-Talk lever and be identified by the new round Tait Logo on the front housing.



Compliance None.

CSO Instruction Please inform all technical staff and accredited dealers of the suggested rework of un-badged TMAA02-01 microphones that Press-To-Talk intermittently.

2. Issuing Authority

Name and Position of Issuing Officer Graham Brenchley
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