TAIT TECHNICAL SUPPORT

Technical Note TN-753

Changes to the T2000 Castings and Screw Types Used

22nd November 2002

Applicability

This Technical note applies to the entire T2000 product range and replaces Technical Note TN-651.

1. Introduction

Details

In 2001 the screws that are used in the T2000 product range were changed to the PTDG type of screw. This change was undertaken because of problems with the Taptite screws. Now, because of ongoing problems with the PTDG screws, it has been decided to change back to the Taptite type of screw. While this may be seen as a backward step, it is in fact a step forward. The new screws that will be used, while still technically Taptites, are of a superior quality to the Taptites that were used in the past.

What is wrong with the PTDG Screws?

The following problems occurred with the PTDG type of screws:-

- Was not suitable for the grade of aluminium that Tait use in the top and bottom covers and chassis. The Aluminium is to hard.
- Continuing quality problems from the manufacturer (30% to 40% of the product received were bent).
- Higher torque required. This increased the risk of RSI injuries.
- The PTDG is not a standard thread. Because of this it was very difficult (if not impossible) to replace the screws exept from the manufacturers. A dealer in the field couldn't just "go to the local hardware store" to replace a broken screw.
- Also because of the non-standard thread, heli-coils could not be used to repair covers.
- The PTDG screws were only used in the T2000 products and no where else in the Tait product range.

Tait Electronics Limited
PO Box 1645, Christchurch, New Zealand
Telephone: +64–3–358–3399
Facsimile: +64–3–358–3903
www.taitworld.com/support

Why are the New Taptites any better?

The Taptite Advantages

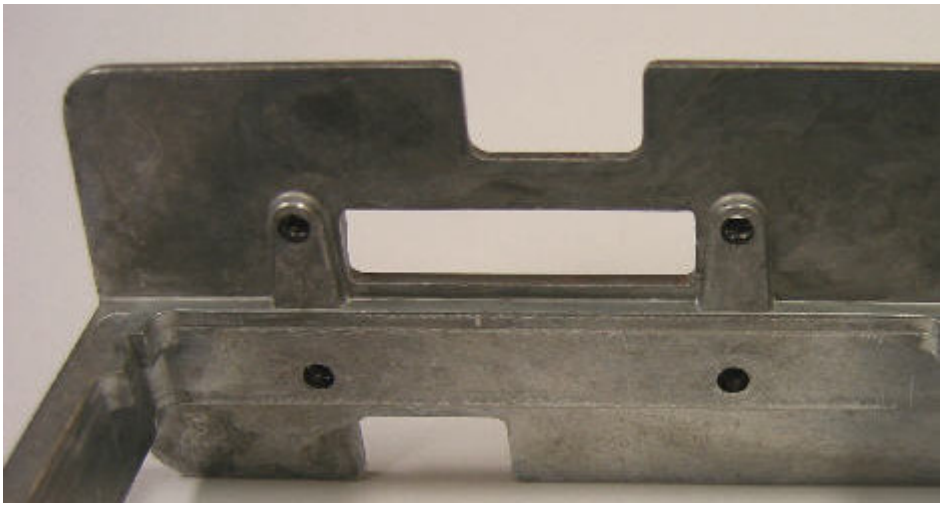
- Company wide decision to go to the Conti-Reminc licensed manufactures on all products. These screws are manufactered in Japan by a company with recognised quality control proceedures.
- Standard thread. Can be obtained from "any hardware store".
- Threads inside the castings are repairable by Heli-coil.
- Easier to put into the radio because of lower turning torque needed.
- 6 months of testing has been carried out.
- More suitable to the aluminium used in Tait radios.
- Better clamping of the radio which results in better grounding.

It should be noted that we will be retaining the "TORX" style of head. This head is better than the posidrive in that no downward force is needed to drive the screws, only rotary force.

What about the Chassis and Covers?

This is one of the good aspects of this change. By the time the Taptites are introduced into production the covers will have already been changed to covers that are suitable for the Taptite screws. The chassis will change when the new Taptites are introduced and there is no need to change the microshield.

The picture below shows part of the new chassis. You can see that it has additional protrusions behind the front plate. The chassis will also have had the PTDG mark removed from the back.



Tait Electronics Limited Telephone: +64–3–358–3399
PO Box 1645, Christchurch, New Zealand Facsimile: +64–3–358–3903
www.taitworld.com/support

What are the IPN's

The New Screws:-

349-02061-00	M3X6	(**7 in.lb**)
349-02062-00	M3X8	(**7 in.lb**)
349-02063-00	M4X25	(**17 in.lb**)
349-02064-00	M4X35	(**17 in.lb**)
349-02065-00	M3X10	(**7 in.lb**)

The Covers and Chassis:-

T2000 CHASSIS CASTING - IPN: 308-13093-07
(All but 800MHz)
T2000 CHASSIS CASTING - IPN: 308-13137-031
(800MHz)
BOTTOM COVER modification - IPN: 303-23125-06
TOP COVER modification - IPN: 303-23124-05.
MICRO SHIELD no Change - IPN: 319-01164-03

When will this be happening?

The screws will be put into production radios from early December 2002.
The serial number of the first radio with the new Taptite screws is **XXXXXXXX** (This technical Note will be updated with the first serial number).

Compliance

None

CSO Instruction

CSO's – Please inform all logistics, sales and technical staff, and dealers of these changes.

Issuing authority

Name and position of issuing officer

Paul Anderson
Customer Support Engineer - Mobiles

Confidentiality

Confidential – This message or document contains proprietary information intended only for the person(s) or organisation(s) to whom it is addressed. All Recipients are legally obliged to not disclose Tait technological or business information to any persons or organizations without the written permission of Tait.

Distribution Level

Associate

Document History

Original Release PRA

Tait Electronics Limited Telephone: +64–3–358–3399
PO Box 1645, Christchurch, New Zealand Facsimile: +64–3–358–3903
www.taitworld.com/support