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## TECHNICAL NOTE TN-1196

### Replacing the Tait Orca & Tait Orca 5000 LCD

2 August 2006

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#### Applicability

This Technical Note applies to the following radio models:

- Tait Orca Excel – Conventional and MPT 1327 Trunked
- Tait Orca Eclipse – Conventional
- Tait Orca 5015, 5018 and 5020 – Conventional
- Tait Orca 5035 and 5040 – MPT 1327 Trunked

## 1. Introduction

#### What is in this Technical Note?

When the Tait Orca LCD (IPN 008-36671-81) requires replacement there are up to two additional parts that need to be ordered to ensure the replacement LCD assembly is correct.

This Technical Note details these parts, the quantity required and the positioning of these parts.

## 2. Parts Required to Replace LCD

#### Parts Required

The following parts are required to replace the LCD:

- IPN 008-36671-81 (LCD 12x2 lines 180 twist A02) x 1
- IPN 369-00020-60 (TAPE Nitto thrm #18mm yel) x 43.5mm length

If the LCD is to be fitted to a **Tait Orca Excel or Eclipse** then you will also need:

- IPN 369-02060-00 (TAPE Tesa 61102 LCD foam 8x4m) x 1

## 3. Replacement Process

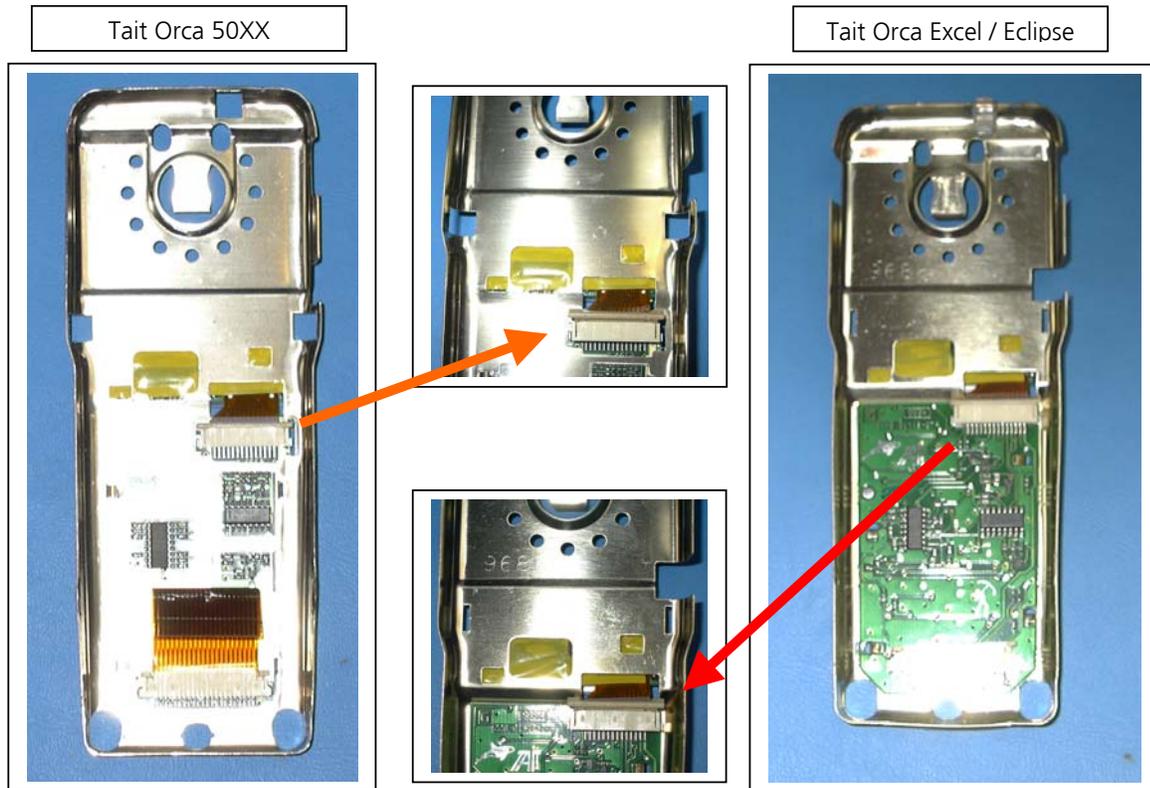
#### Work Area

Ensure the replacement process is carried out in a static (ESD) safe environment. Static safe matting, a heel and / or wrist strap must be worn as a minimum requirement. Refer to "Important Information", section A-9 of the Tait Orca 5000 Service Manual (IPN M5000-00-105).

#### Radio Disassembly

Follow the directions in section D-4 of the Tait Orca 5000 Service Manual (IPN M5000-00-105) to remove the radio front panel and the microshield (with LCD fitted).

Turn the microshield face down and release the connecting flexiloom on the user interface PCB as demonstrated in the figure on the following page.



**Prepare new LCD assembly**

Take the new LCD (IPN 008-36671-81) and place it face down on the static safe surface. Be sure not to scratch the LCD surface whilst doing this.

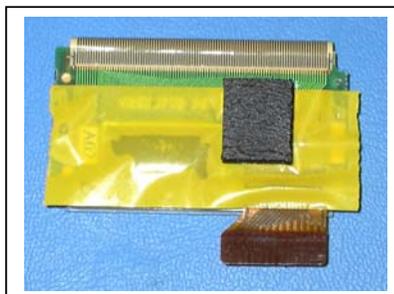
Take the 43.5mm length of yellow tape (IPN 369-00020-60) and carefully place this across the back of the LCD module. The resulting LCD assembly is shown below.

Tait Orca 50XX LCD



**If the LCD assembly is to be fitted to a Tait Orca Excel or Eclipse then you need to place the foam pad (IPN 369-02060-00) just to the right of the black bulge on the back of the LCD module.** The resulting LCD assembly with foam pad fitted is shown below.

Tait Orca Excel / Eclipse LCD



LCD assembly preparation is complete. Reassemble radio and test.

## 4. Spares Kit Option – TOPA-SP-508

### Universal LCD Spares Kit

A LCD spares kit is available to service all Tait Orca radios with damaged LCD's. This kit is the TOPA-SP-508, and includes the following parts:

- 1 x Tait Orca LCD with yellow tape fitted (IPN 008-36671-81 & 369-00020-60)
- 1 x Foam pad (IPN 369-02060-00) included in the event the LCD is to be used in a Tait Orca Excel or Eclipse.

### Compliance Issues

None

### CSO Instruction

Please inform all dealers of the parts required and spares kit option available when replacing the Tait Orca LCD.

## 5. Issuing Authority

### Name and Position of Issuing Officer

Tim Lummis  
Technical Support Engineer

### Confidentiality

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### Distribution Level

Associate

### Document History

Original Release	2 August 2006	TPL
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