

Technical Note TN-600

New Firmware for T3002 Fast Charger

25 November 1999

Applicability

All new production of T3002 Fast Chargers

1. Introduction

Background.

Customer complaints about the capacity of the T3000 batteries lead to an investigation into the charging techniques employed by Tait Electronics. This investigation revealed that the chargers were not performing as expected and action was required to repair the situation.

After lengthy investigation and experimentation, the firmware code for the T3002 and the Tait Orca fast chargers was changed to improve the capacity of the batteries and to extend battery life.

The newly upgraded chargers have recently been released into full production.

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2. T3002 Changes

Explanation

The Upgraded T3002 with the V2.06 P6A micro is now released into production and is available to customers to purchase. The Serial Number of the first one rolling out is **11091436**.

Also, the T3002 V2.06 Software Upgrade Kit has been released. The part number for this is: **T3000-8620-206.** Included in this kit are:

- IC MC68HC705P6A Programmed with V2.06 firmware. (IPN 002-16870-60)
- New charger label to indicate the changes made in the LED indicators and charging methods.(IPN 410-01064-01). Refer to TN-592 for further operational information.
- An insert addendum (user guide).(IPN 410-31000-00)

No other hardware changes have been made. Many users may have to remove the old 28 Pin DIP OTP and its carrier in order to get at the SMD pads underneath required to fit the P6A micro.

Those doing these modifications need to remember that older chargers with pre V2.01 firmware need to have a $1K5\Omega$ resistor placed into the R85 position when upgraded.

3. Issuing authority

Name and position of issuing officer

Barry Crates

Mobile Radio Customer Support Engineer.