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## Technical Note TN-630

1. Tait Orca Charger Software V2.07
2. Tait Orca Charger Pins 356-01079-00

17 August 2000

### Applicability

This technical note applies to the introduction of the new charger software **V2.07** and the new charger pin **IPN: 356-01079-00**

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### V2.07 Software

Development of the upcoming 1500 mAh NiMH battery has required a new version of charger software to be developed. Existing charger software (V2.06) was failing the new NiMH batteries when placed into a long condition cycle. The below changes have been made to the way the charger handles the NiMH batteries during a long condition cycle:

- Decrease the short circuit NiMH voltage threshold limit from 7.3V to 7.2V
- Increase the time taken to perform the short circuit test after a discharge cycle from 19 seconds to 30 seconds.

Production of the chargers with this new software started from the following serial numbers:

1. **TOPA-CH-200 S/N: 16054531**
2. **TOPA-CH-201 S/N: 16054701**
3. **TOPA-CH-202 S/N: 16053771**
4. **TPOA-CH-203 S/N: 16051795**
5. **TOPA-CH-204 S/N: 16053256**
6. **TOPA-CH-205 S/N: 16051835**
7. **TOPA-CH-2Z3 S/N: 16052439**
8. **TOPA-CH-300 S/N: 16054206**

**NB** There are no changes to the way NiCd batteries are charged, or user interface changes with V2.07

### Application

1. To charge the new 1500 mAh NiMH battery, chargers fitted with V2.07 software or greater must be used.
  2. To charge the new 2000 mAh NiMH battery, chargers fitted with V2.06 software or greater can be used as the above issues only apply to the 1500 NiMH pack.
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## **New Charger Pin**

Work towards a more reliable and robust charger pin has resulted in the new Bias Ball construction pin being introduced. The old outer pin (356-01075-00) was of bias ball construction and has proved to be very reliable with most field failures occurring on old inner pins (356-01073-01).

The new pin now replaces both the old outer and inner pins so that one pin now fits all four positions. The part number for the new pin is as follows:

- **IPN: 356-01079-00**

Production of this pin started from the following serial numbers:

1. **TOPA-CH-200 S/N: 16049323 - 1604934** then
2. **TOPA-CH-200 S/N: 16054531**
3. **TOPA-CH-201 S/N: 16051755**
4. **TOPA-CH-202 S/N: 16051999**
5. **TOPA-CH-203 S/N: 16051795**
6. **TOPA-CH-204 S/N: 16053256**
7. **TOPA-CH-205 S/N: 16051835**
8. **TOPA-CH-2Z3 S/N: 16052439**
9. **TOPA-CH-300 S/N: 16054206**

## **Note to CSOs**

Please pass this information to all internal sales and technical staff, and to all dealers.

## **Issuing authority**

Terry McCartin  
Customer Support — Tait Orca Portables