

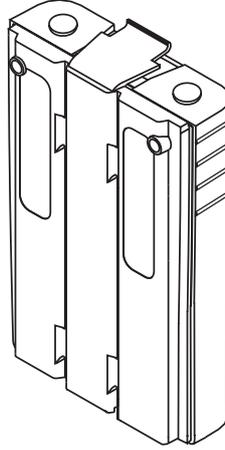
7 Accessories

This Section provides information on T3000 accessories. The following accessories are covered:

| Section | Title | Page |
|---------|---|--------|
| 7.1 | T3000 Battery Packs | 7.1.2 |
| 7.2 | T3000 Speaker-Microphones | 7.2.1 |
| 7.3 | T3000 Programming Kits | 7.3.1 |
| 7.4 | T3000-7100 Calibration Kit | 7.4.1 |
| 7.5 | T3000 Accessory Connectors | 7.5.1 |
| 7.6 | T3000 Antennas | 7.6.1 |
| 7.7 | T3000 Test Leads | 7.7.1 |
| 7.8 | T3000 DTMF & Selcall Options PCB | 7.8.1 |
| 7.9 | T3000 VOX, CTCSS & Scrambler Option PCB | 7.9.1 |
| 7.10 | T3002 Fast Charger | 7.10.1 |
| 7.11 | T3003 Trickle Charger | 7.11.1 |
| 7.12 | T3004 Rapid Charger | 7.12.1 |

7.1 T3000 Battery Packs

7.1.1 Introduction



The T3000 Nickel-Cadmium (NiCd) battery packs and Nickel-Metal-Hydride (NiMH) battery pack provide a nominal 7.5V DC for the T3000 radios. Battery pack charging options include the T3001 trickle charger, the T3002 fast charger and the T3004 dual rapid charger.

The following table describes battery options.

| Battery Pack | Type | Capacity (Ah) |
|---------------------------------|------|---------------|
| T3000-1002 (discontinued) | NiCd | 1.1 |
| T3000-1012 (discontinued) | NiMH | 1.5 |
| T3000-1022 | NiCd | 1.2 |
| T3000-1032 (discontinued) | NiMH | 1.85 |
| T3000-1042 | NiCd | 1.5 |
| T3000-1052 (refer to Section 8) | NiCd | 1.2 |

Note: Nickel-Metal-Hydride battery packs have a resettable thermal cutout that trips when the operating temperature reaches 70°C, and a permanent cutout preventing operation above 90°C. Temperatures above 90°C will cause permanent damage.

For specification details, refer to Section 1.2.2.

7.1.2 Maintenance

The T3000 battery packs are made with high quality matched cells, and battery life can be maximised by proper maintenance procedures. The lifetime of correctly maintained NiCd or NiMH batteries is typically between 12 and 18 months (400 to 600 cycles).

- **Avoid overcharging.** Do not recharge a pack that has had little or no use since its last charge. Capacity reduction will occur if the battery pack is repeatedly recharged before being fully discharged. If this pattern continues on a regular basis, the life of the battery pack will be reduced.

Note: 'Full discharge' is discharge to 6V. The 'battery low' indicator illuminates just above 6V, and at 6V the radio switches off.

- **Avoid temperature extremes.** The battery will charge and perform best at 15°C to 25°C.
- **Give the battery regular exercise.** Assuming light daily use and daily charging, discharge the pack to 6V once per week. Do this either by using the T3000 until the battery is exhausted and the radio turns itself off, or by using the T3002 fast charger. A conditioning cycle is also recommended once per month.
- **Storage:** do not store batteries connected to the radio, and fully charge batteries before storage.

7.1.3 Restoring A Reduced Capacity Battery Pack

A battery pack exhibiting reduced capacity may often be restored by repeated charging and discharging to 6V. This may require 4 or more charge/discharge cycles using the T3002 fast charger or a commercial battery analyser.

7.1.4 Disposal Of Used NiCd Batteries



NiCd batteries contain a small amount of the metal cadmium, which can produce potentially toxic waste if it is not disposed of correctly. When no longer in use, ensure that NiCd batteries are properly disposed of. Do not burn or break the battery.

