Digital Fast Charger

• Can charge 12 units simultaneously

Advanced microprocesser based

Convenient carry / storage case

Auto-select 9V/3V charging

• Self-diagnostic feature



The NBC 9-3-12 Digital Fast Charger is designed to simultaneously charge and store up to twelve COMTEK 216 or 75 series receivers and/or transmitters. The charger will charge 3 volt (two AA size batteries) or 9 volt nickel-metal hydride (Ni-MH) batteries. The charger will automatically select the charging mode for the type of battery being used. It is also equipped with a self-diagnostic capability to identify faulty batteries and to ensure safe operation.

Nickel-metal hydride batteries can be recharged hundreds of times without generating a significant loss of power capacity or battery memory problems. An analog-to-digital voltage slope detector determines charge completion. If units are used only for a short time, the batteries will automatically receive a short "top-off" charge. When batteries reach a fully charged state, the NBC 9-3-12 charger will indefinitely maintain the batteries in a fully charged state of readiness until units are to be used.

NBC 9-3-12 Operating Instructions

- 1. Plug the 18 volt D.C. power supply into a 100-240 volt outlet. Plug the low voltage connector into the receptacle on the side of the charger. (See figure 1.) All the LED's should flash RED and stay off until a unit is plugged in.
- **2.** Make sure that units to be charged have proper Ni-MH batteries installed.

CAUTION: Do not insert COMTEK units into charger without a battery.

- **3.** Be sure that the on/off switch on COMTEK unit to be charged is in the OFF position.
- **4.** Insert each COMTEK device upside down with label side exposed, making certain the charging plug is inserted completely. (See figure 2.)

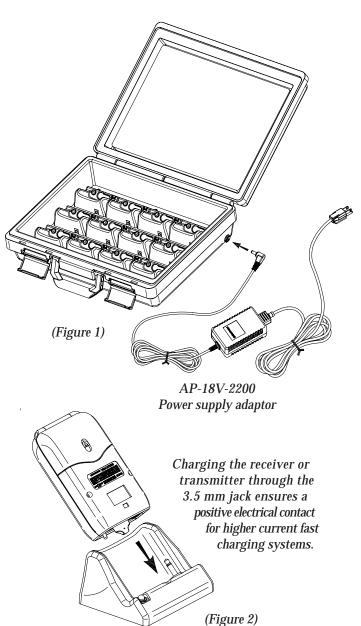
NOTE: The charger LED must be OFF before inserting unit.

- **5.** Allow up to four hours for complete charge. Batteries will automatically receive a shorter "top-off" charge if used only for a short time.
- **6.** The NBC 9-3-12 will maintain the batteries in a fully charged state, and units can be stored indefinitely while the steady green LED is on.
- 7. Periodically open the battery compartment on stored COMTEK units to check for battery leakage. If a Ni-MH battery is leaking, it must be discarded.

An important feature of the NBC 9-3-12 battery charger is its diagnostic capability and automatic safety system designed to prevent damage in the event of improper battery usage. The single LED indicator on each charger unit is a multi-function indicator which detects the following conditions:

- a. Steady red ----- Normal charging
- **b.** Steady green ----- Charging cycle is complete and trickle charging is occurring
- c. Blinking red ----- Over-voltage shut off has occurred indicating a defective or inappropriate battery
- d. Blinking green --- Safety timer shut off has occurred indicating an incomplete charge.

 Unit may be removed and reinserted after ten seconds for another charge cycle.



NBC 9-3-12 Specifications

Input Power:

18V DC Switching Adaptor (2.2 amp)

Fast Charge Current:

3V battery mode ---- 450 mA 9V battery mode ---- 80 mA

Trickle Charge Current:

3V battery mode ---- 40 mA 9V battery mode ---- 6 mA

Fast Charge Termination:

"Negative delta V" peak detection

Power Control:

Switching Regulator

Charger Control:

Microprocessor

Dimensions:

15 1/2" X 13 1/4" X 5"

Weight:

6 3/4 lbs (with power supply adaptor)