Firmware Release: DDXX19-XX-231 (IPP231.001)
Release Date: 12/01/97
Previous Version: DDXX18-XX-790

This new release of firmware includes the features and enhancements listed on the following pages of this bulletin.

GENERAL FEATURES & ENHANCEMENTS

Battery Charge Routine

The phone is now more proactive and efficient in detecting and charging a weak battery.

Dial tone is now provided to the payphone user if the phone is taken off-hook during an automatic battery charge routine.

The phone now automatically enters the battery charge routine once a day to help keep the batteries charged to an optimal level.

Manual Battery Test and Charge Routine

Battery Test

To test the condition of the battery the service technician should key in *#67 at the phone's keypad. The phone will reply with one of three responses:

- A single beep indicates that the battery is good
- Two beeps indicate a marginal battery
- Three beeps indicates a weak battery

Manual Battery Charge

To cause the phone to immediately charge the battery the service technician should enter *#68 at the phone's keypad. It is important to note that the service technician must wait for the "please wait two minutes" prompt before placing the handset on-hook. This "manual battery charge" is recommended for phones that have a marginal or weak battery as indicated from the battery test. Once the manual battery charge routine has been invoked, it can not be interrupted.

Call Restriction

The call restrict feature has been modified to restrict all calls (except 911) during the time that the call restrict window is active.

Collect Refund Operations

The phone will wait until loop current is available from the central office before performing a collect/refund operation. Additionally, modifications have been made to help prevent the GTD-5 central office switch from sensing a refund/collect over-current condition.

Digit Capture

The phone now captures all digits that are dialed after call cut-through on calls originated through band 103 (10XXX and 101XXXX).

COIN LINE OPERATION

Collect/Refund

When the phone detects a collect/refund pulse it will be monitored until it is qualified as valid.