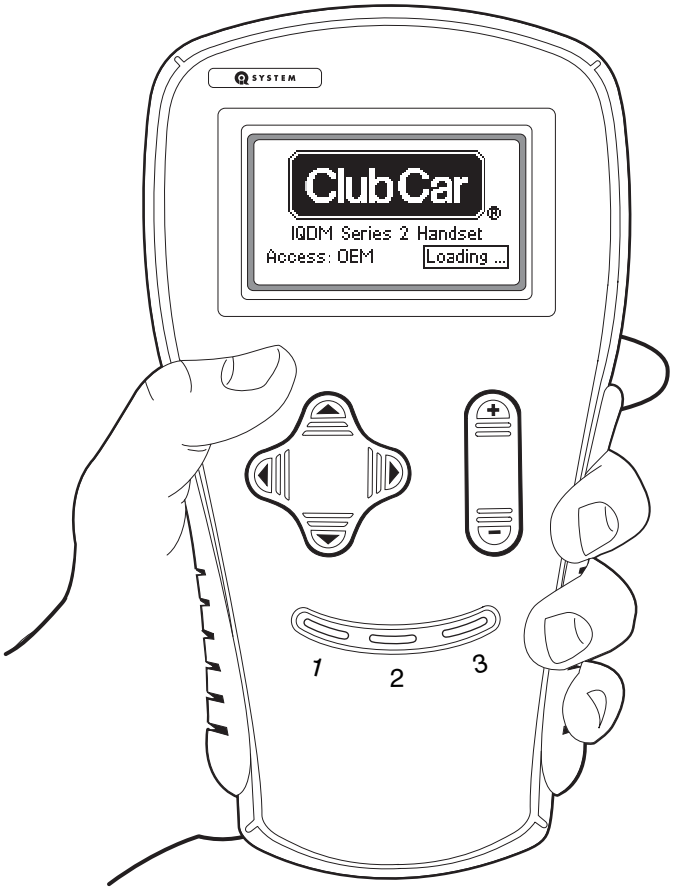
IQ DISPLAY MODULE-P SERIES 2 (IQDM-P SERIES 2) OWNER'S MANUAL

The IQDM-P Series 2 is a handheld programming and diagnostic tool for use with Club Car IQ System vehicles. This owner's manual includes all information required to operate the IQDM-P Series 2 with Club Car IQ System and IQ Plus vehicles, but does not contain detailed information for troubleshooting the vehicle. Refer to the vehicle maintenance and service manual and supplement for detailed vehicle troubleshooting and service procedures. For vehicle operation information, refer to the vehicle owner's manual supplied with the vehicle. If you do not have a vehicle owner's manual or a vehicle maintenance and service manual and supplement, they may be obtained from your Club Car dealer or distributor.



Manual No. 102249204

For use with Kit No. 102248804

Edition Code 0603C1006B

NOTICE

This manual contains proprietary information that is protected by copyright. All rights are reserved. No part of this manual may be photocopied, reproduced, or translated to another language without the written consent of Club Car, Inc.

Club Car is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

The information contained in this document is subject to change without notice.

Club Car reserves the right to make design changes to service tools and vehicles without obligation to make these changes on units previously sold.

This manual effective December 1, 2003.

Copyright © 2003, 2006 Club Car, Inc.

TABLE OF CONTENTS

Safety Details 3
Parts Included in Kit 4
General Information 4
Programmer Setup 9

SAFETY DETAILS

⚠ DANGER

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or using in an enclosed space. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Use extreme caution when using tools, wires, or metal objects near batteries! A short circuit and (or) spark could cause an explosion.**
- **Battery – Poison! Contains acid! Causes severe burns. Avoid contact with skin, eyes, or clothing. Antidotes:**
  - **External: Flush with water. Call a physician immediately.**
  - **Internal: Drink large quantities of milk or water. Follow with milk of magnesia or vegetable oil. Call a physician immediately.**
  - **Eyes: Flush with water for 15 minutes. Call a physician immediately.**

⚠ WARNING

- **The vehicle operator should not monitor the handset while the vehicle is in motion. A technician can monitor the handset while traveling as a passenger in the vehicle. Failure to heed this warning could result in severe personal injury or death.**
- **This owner's manual should be read completely before attempting to operate the IQDM-P Series 2. Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.**
- **Only trained technicians should repair or service the vehicle. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair.**
- **Follow the procedures exactly as stated in this manual, and heed all DANGER, WARNING, and CAUTION statements in this manual, as well as those affixed to the vehicle.**
- **Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance or severe personal injury.**
- **Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.**
- **Check the vehicle owner's manual for proper location of all vehicle warning decals and make sure they are in place and are easy to read.**
- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Turn key switch to the OFF position and remove key, place Forward/Reverse switch in the NEUTRAL position, and chock the wheels prior to servicing the vehicle.**
- **Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing vehicle.**
- **Moving parts! Do not attempt to service the vehicle while it is running.**
- **Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.**
- **If wires are removed or replaced make sure wiring and wire harness are properly routed and secured. Failure to properly route and secure wiring could result in vehicle malfunction, property damage or personal injury.**

CAUTION

- **Do not expose the handset to direct, bright sunlight for long periods of time. Failure to heed this caution could result in damage or failure of the IQDM-P Series 2.**

PARTS INCLUDED IN KIT

The IQDM-P Series 2 kit should include the items shown **(Figure 1)**.

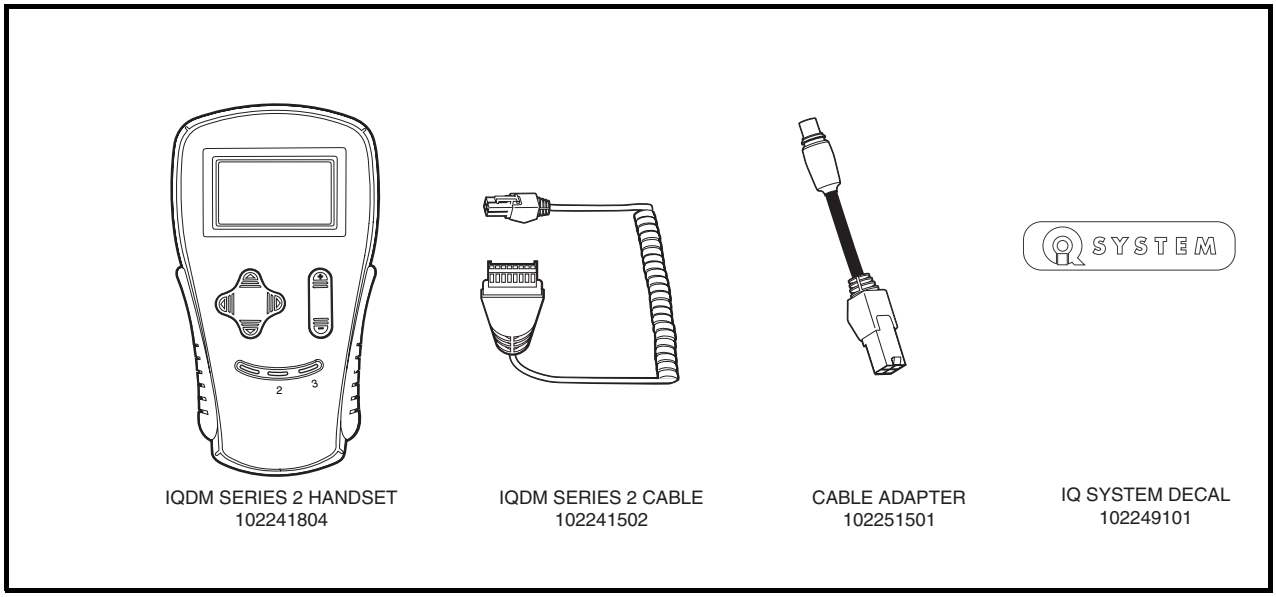


Figure 1 IQDM-P Series 2 Parts

GENERAL INFORMATION

When connected to a vehicle, the IQDM-P Series 2 handset is powered entirely by the vehicle batteries through the speed controller.

OVERVIEW

PLUGGING THE HANDSET INTO THE VEHICLE

1. Connect one end of the cable to the jack located on the bottom of the handset.
2. Connect the cable adaptor to the IQDM-P Series 2 cable.
3. Remove the dust cap from the IQDM jack.
4. Align the keyed portion of the plug with the IQDM jack and connect the plug to the jack **(Figure 2, 3, or 4).**

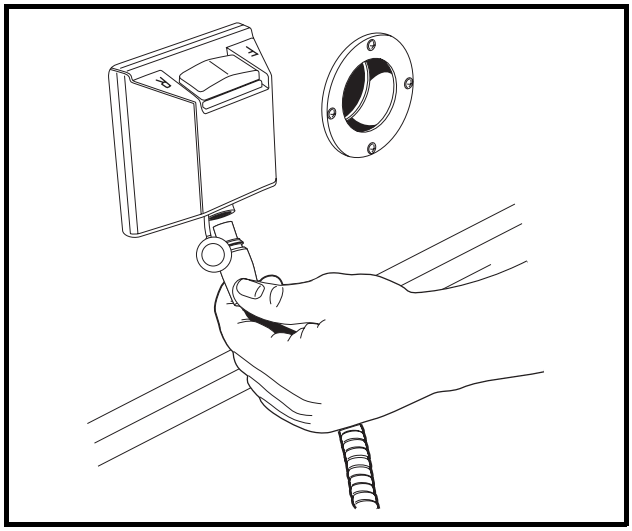


Figure 2 Vehicle Connection (IQ System, IQ Plus, and DS Vehicles with Data Port on F&R Switch as Shown Here)

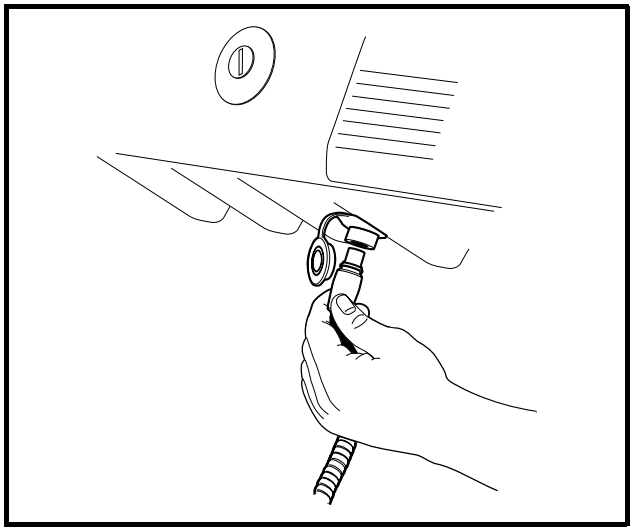


Figure 3 Vehicle Connection under Dash (Precedent Vehicles and 2007 and Later IQ Plus Vehicles)

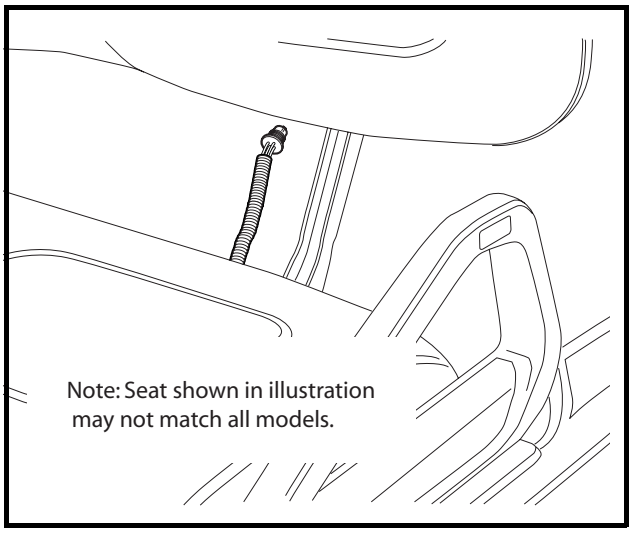


Figure 4 Connector under Seat in Extended Position (DS Vehicles without Data Port on F&R Switch)

INTRODUCTORY DISPLAY

Immediately after the handset is connected to the vehicle, it begins loading the vehicle speed controller information **(Figure 5)**. After a few seconds, the screen displays the following menu items **(Figure 6)**:

- Program
- Monitor
- Faults
- Functions
- Information
- Programmer Setup

In the event that the handset does not display any information, or the screen is difficult to read, refer to the IQDM-P Series 2 troubleshooting procedures. **See IQ System Display Module Series 2 (IQDM-P Series 2) Programming in the appropriate maintenance and service manual.**

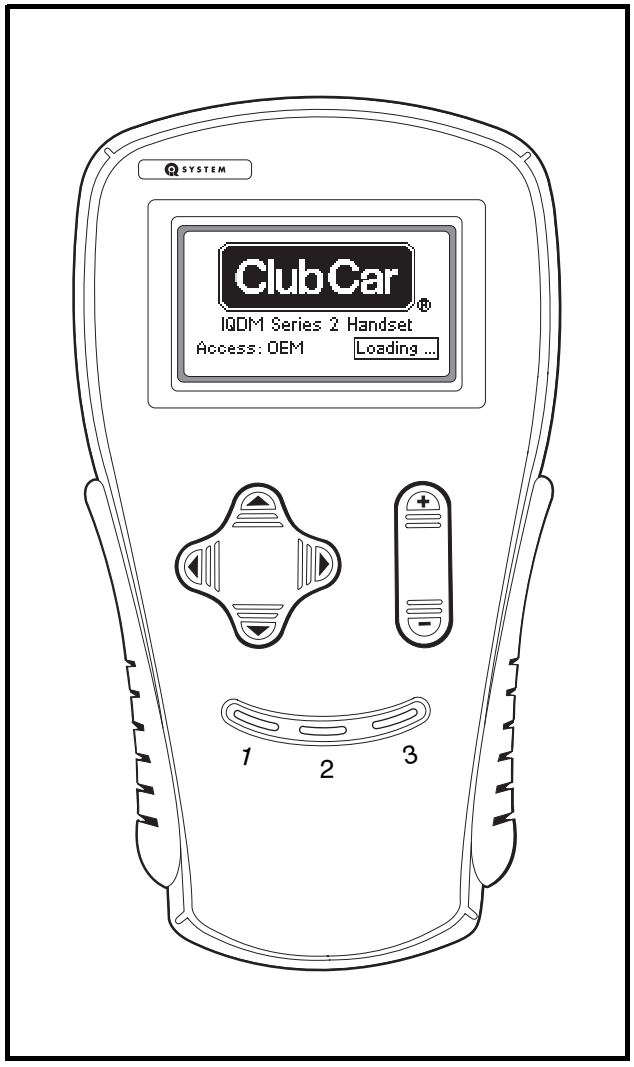


Figure 5 Introductory Display

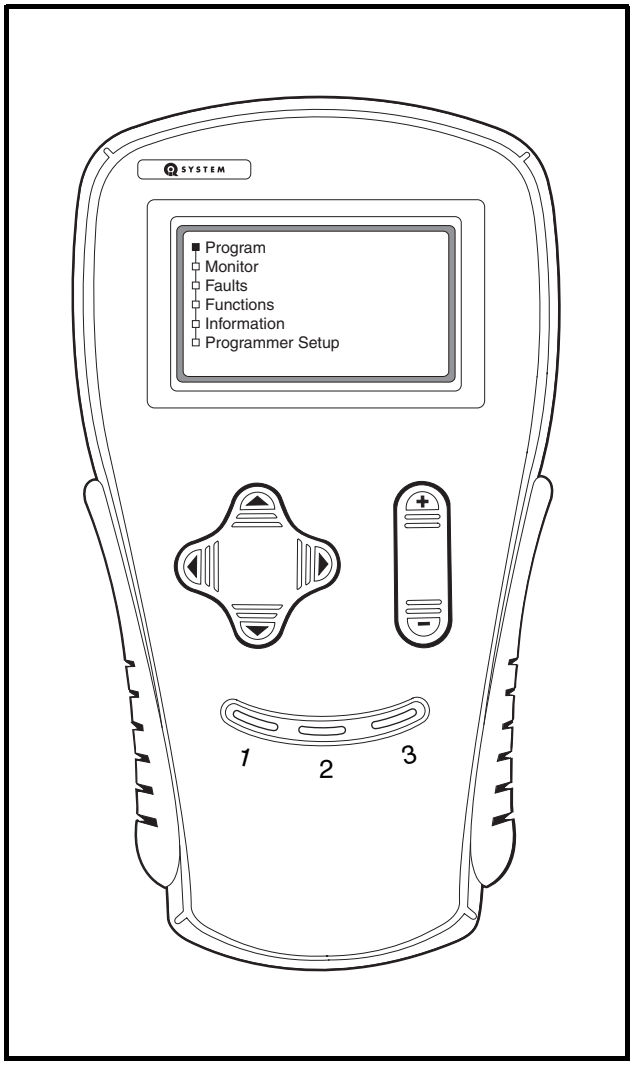


Figure 6 Main Menu Display

MENU NAVIGATION

The NAVIGATION BUTTON is the four-arrow button located on the left side of the handset **(Figure 7)**. This button is used to navigate through and select menus. Pressing the up or down arrows allows the user to scroll through the menu items. When the box beside the desired menu is blinking, pressing the right arrow selects that menu item. Pressing the left arrow allows the user to go back one screen.

The CHANGE VALUE BUTTON is the button located on the right side of the handset **(Figure 7)**. This button allows the user to change values by pressing + or –.

The three yellow buttons labeled 1, 2 and 3 are BOOKMARK BUTTONS **(Figure 7)**. These buttons allow the user to bookmark up to three specific screens for rapid return to those screens. To bookmark a specific display screen, have the desired screen displayed and simply press and hold a bookmark button until the statement “bookmark set” is displayed. When it is necessary to go back to the bookmarked screen, rapidly press and release the appropriate bookmark button. **See following NOTE.**

NOTE: *When going to a bookmarked display screen, be sure to rapidly press and release the button. If the button is pressed and held for too long, the bookmark will be overridden with the current screen.*

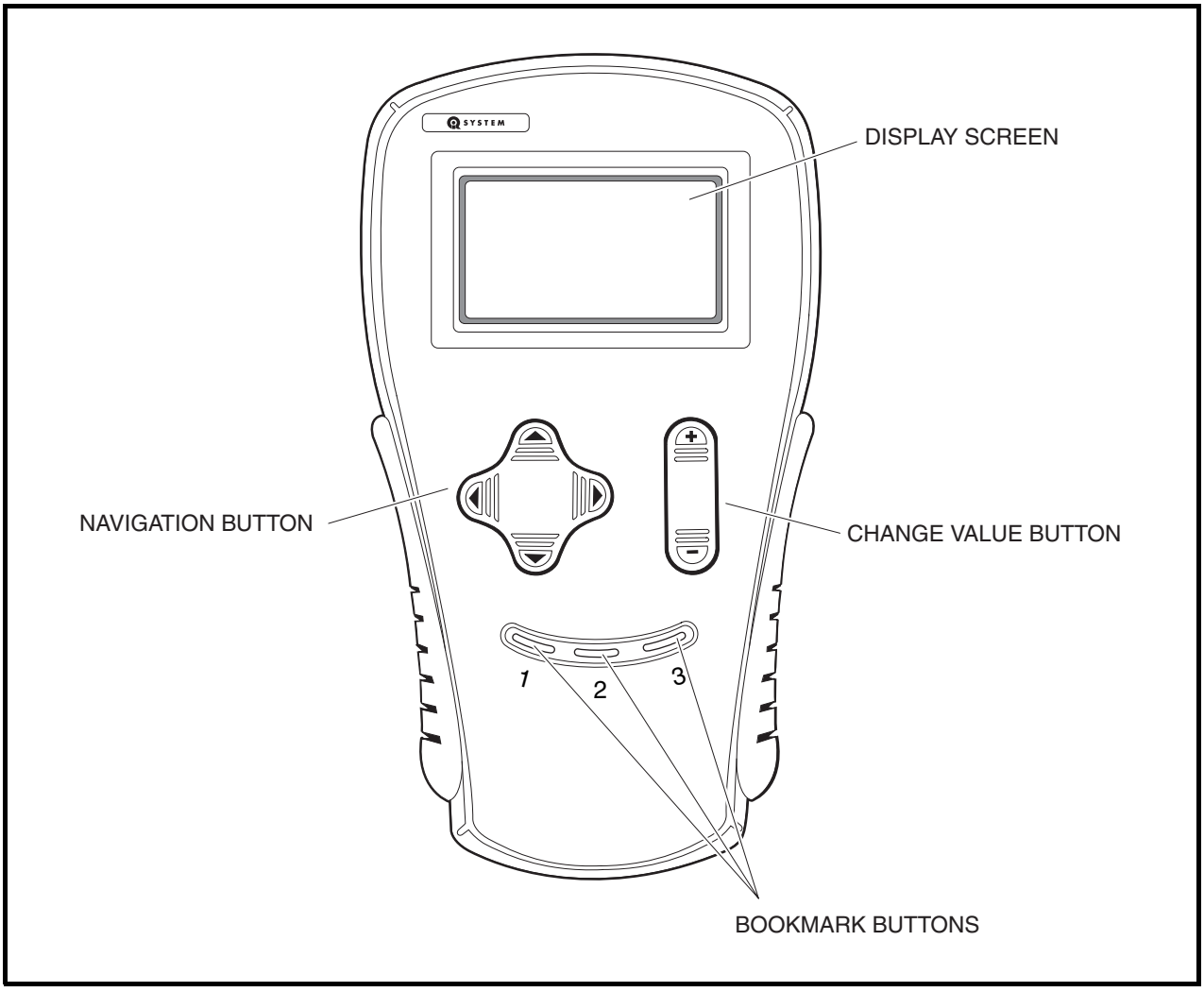


Figure 7 Handset Controls

The following menus are accessible on the IQDM-P Series 2 handset:

Program

The *program* menu allows the user to view and change custom speed controller settings. **See IQ System Display Module Series 2 (IQDM-P Series 2) Programming in the appropriate maintenance and service manual.**

Monitor

The *monitor* menu displays values for certain parameters to facilitate speed controller troubleshooting. **See IQ System Display Module Series 2 (IQDM-P Series 2) Diagnostics in the appropriate maintenance and service manual.**

Faults

The *faults* menu displays all faults recorded by the speed controller since the history was last cleared. Each fault is listed only once, even if the fault has occurred multiple times. **See IQ System Display Module Series 2 (IQDM-P Series 2) Diagnostics in the appropriate maintenance and service manual.**

Functions

The *functions* menu allows the user to transfer all current settings from the speed controller to the handset and from the handset to the speed controller. **See IQ System Display Module Series 2 (IQDM-P Series 2) Programming in the appropriate maintenance and service manual.**

Information

The *information* menu displays the model number, serial number, manufacturer date and software version of the speed controller. **See IQ System Display Module Series 2 (IQDM-P Series 2) Diagnostics in the appropriate maintenance and service manual.**

Programmer Setup

The *programmer setup* menu allows the user to set the LCD contrast, display the fault history of the programmer as well as various other information pertaining to the handset such as model number, serial number, OEM information, etc.

PROGRAMMER SETUP

The *programmer setup* menu selection allows the user to set the LCD display contrast, records the fault history of the handset, and displays information pertaining to the handset.

PROGRAM

This menu allows the user to adjust the contrast on the display screen. After selecting the *LCD–Contrast* menu, use the change value buttons to adjust the contrast for the best readability.

FAULTS

This menu selection displays faults that have been detected within the handset. This *faults* menu does not pertain to any faults detected in the speed controller.

The following faults can be detected within the handset:

CODE NUMBER	TEXT DISPLAYED
14	Communication error with controller
15	Error in handset
16	Handset does not support this function
17	Serial port overrun error
18	Security lockout on program menu

Fault History

This menu displays any faults that have been detected within the handset itself.

Clear Fault History

The *clear fault history* function will erase the history of faults that are stored in the handset.

Information

This menu selection displays information pertaining to the handset. The information provided in this menu selection includes model number, serial number, the date the handset was manufactured, the handset software version, etc.