

# SPECIFICATIONS

## PROGRAMMING HANDSET FOR EV100/SX FAMILY OF CONTROLS



### General Features

The GE Handset is a multi-functional tool to be used with the LX, ZX, and SX Series GE solid-state controls. The Handset consists of a Light Emitting Diode (LED) display and a keyboard for data entry.

**Note:** The Handset is the same for all GE controls, however, the cable will change between some control types.

### Setup Functions

The purpose of the Handset is to allow authorized personnel to perform the following functions of the SX family of Controls:

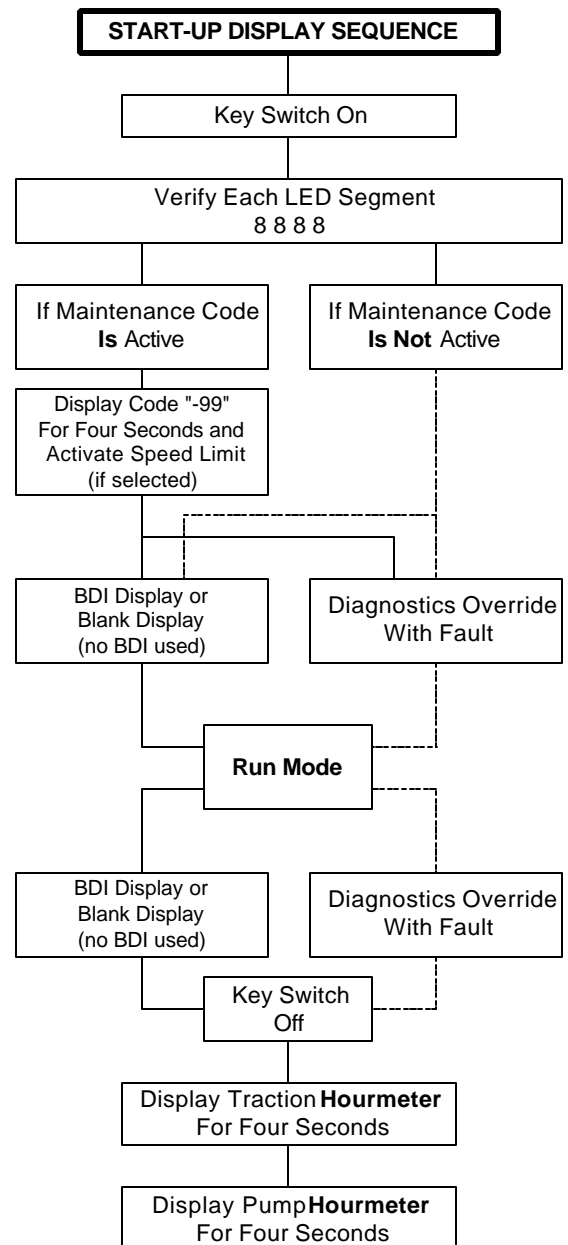
- Monitor existing system fault codes
- Monitor intermittent random fault codes
- Monitor battery state of charge on systems with BDI
- Monitor hourmeter reading
- Monitor or adjust the following control functions:
  - ◆ Creep speed
  - ◆ Armature Controlled Acceleration and 1A Time
  - ◆ Regenerative Braking Current Limit and Disable
  - ◆ Armature and Field Current Limit
  - ◆ Plugging Distance (Current)
  - ◆ Pedal Position Plug Range or Disable
  - ◆ 1A Drop Out Current or Disable
  - ◆ Speed Limit Points
  - ◆ Truck Management Fault Speed Limit
  - ◆ Internal Resistance Compensation for Battery State of Charge Indication
  - ◆ Battery Voltage ( 36/48 volts is auto ranging )
  - ◆ Selection of Card Operation Type.

**Warning:** Before connecting or disconnecting the Handset tool, turn off the key switch, unplug the battery and jack up the drive wheels of the vehicle.

**NOTE:** The vehicle can be operated with the Handset connected, however, the adjustment knob must be set fully clockwise to ensure the control operates at top speed.

**Warning:** Before making any adjustments to the control, you must consult the operating and maintenance instructions supplied by the vehicle manufacturer. Failure to follow proper set up instructions could result in mis-operation or damage to the control system.

At the transistor control traction card, unplug the "Y plug" if the dash display is in use, and plug in the Handset to the plug location "Y" on the control card. After installing the Handset tool, plug the battery in and turn the key switch on. The following is the start-up display sequence that will occur:



### Ordering Information

GE Model Number	Description
IC3645LXHS1	EV100/200LX, EVT-5 handset only
IC3645LXHS1EC2	Handset with Gen II 12 pin plug on 8' cable and case
IC3645LXHS1EC6	EVT-6 handset, case and 8' cable
IC3645LXHS1EC8	EV100/200, EVT-5 handset , case and 8' cable
325B1002G1	Gen II 8' cable with 12 pin plug

## Set-up Function Procedures

With the Handset connected, hold down the **CONT** key and turn on the key switch. This will place you in the set-up mode, ready to monitor or adjust control function settings.

**NOTE:** The term "Push" means to depress key for approximately one second.

### Setup Mode

SET-UP MODE		
ACTION	DISPLAY SHOWS	REMARKS
Hold Down CONT And Turn On Key	8 8 8 8	Segment Check Displayed
Push Function Number	U 0 0 5	Selected Function No. Is Displayed
After One Second Time Delay	0 8 5	Stored Value For The Function Is Displayed
Push CONT	0 8 5	Display Value Will Blink
Change Value With Adjustment Knob	1 2 5	Value Changes While Blinking
Push STORE	1 2 5	New Value Stored And Blinking Stops
Push ESC	8 8 8 8	Segment Check Displayed

At this point, another function can be monitored/changed by pushing another function number, or the vehicle can be placed in the run mode by holding the **ESC** key down for one second or longer. The display will return to either the diagnostics mode, the BDI display, or a blank display (if BDI is not used and there are no fault codes). The vehicle can now be operated with the Handset connected, or the handset can be disconnected before operation.

**NOTE:** You can return to the segment check mode at any time, by holding down the **ESC** key until 8888 appears in the display.

## Status Code Scrolling

The SX family of controllers furnishes a function register that contains the last 16 "stored status codes" that shut down vehicle operation (a PMT type fault that is reset by cycling the key switch) and the battery state of charge reading at the time the fault occurred. The first of the 16 status codes will be overwritten each time a new status code occurs. This stored status code register can be cleared from memory by using the Handset.

