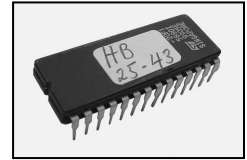




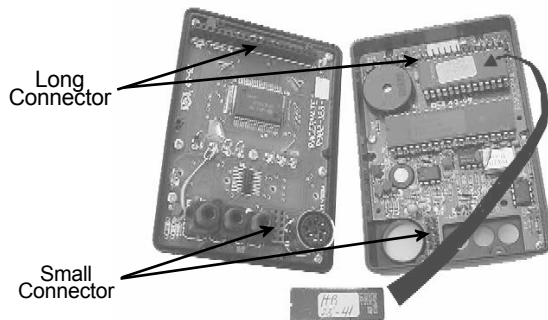
## Upgrading a Handlebar Controller for Puck Compatibility

**Before you begin PLEASE check your Handlebar Controller serial number. If it is above 39800HB - ! STOP ! - contact Technical Support for further instructions.**

**To avoid a static electricity discharge and program chip failure, quickly touch a metal surface just prior to picking up and installing this chip.**



- 1) Remove the Controller from the bike followed by any mount to expose the 6 #1 Phillips head screws. Remove these 6 screws from the back of Handlebar Controller using a #1 Phillips screw driver. Place these screws in a safe location.
- 2) Separate the front and rear controller halves. IMPORTANT: The front and rear of the Controller are connected using multi-pin connectors; one long row at the top of the case and a small grouping near the DIN Cable jack at the bottom (see image below). Care should be taken when separating the two case halves to prevent bending these pins by keeping the gap of separation as even as possible as you go spread open the controller. Do not pull one end apart and then the other.
- 3) Once separated, (see image below) you will find two IC chips in the back half of the case. The smaller of these IC chips will have a version number written on it; i.e. 25.43. See the photo below, following the arrow. This will be the chip to replace.



**Note:** On one end of this IC chip there is a notch to indicate socket-to-chip orientation. Note also the silk screen printing on the circuit board also indicates the location of this notch. Please familiarize yourself with this before removing the old chip.

Carefully remove the chip by inserting a small, flat blade screwdriver under one end and pry up a little, then do the same on the other end until the chip comes out.

- 4) Quickly ground yourself but touching something metal nearby. Now gently insert the new chip it into the socket - taking into account the aforementioned notch. Be certain that all pins are in their respective holes and only then push the chip straight down until firmly seated into the socket. You may find it easier to insert the top row of pins first and then align the bottom row before pressing the IC chip into the socket. Finally, double-check that all pins are in the socket.
- 5) Install the new front case onto the back case. Be sure all connector pins mate to their socket before pushing the two halves together. As you do so it may be necessary to help the DIN cable jack into the hole in the back case to completely mate of the two halves. You can discard old front case and old chip
- 6) Reinstall the six screws into the back and snug them. Do Not Over Tighten!
- 7) Reconnect the DIN cable and turn on the power. When the program first starts, the Handlebar Controller will display the new version number in the LCD display after it displays all 8's. The upgrade is now complete and Puck compatible. If the display does not appear, check again for pins that didn't go into their holes.

If you have any questions regarding this procedure, please call or email for assistance.



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