

## H-3611 RADAR MAPPING

This application note was written to show how to do a mapping in the H-3611 Radar sensor. Mapping a H-3611 radar might be needed due to obstructions that interfere with the radar signal path to the water. When there are obstructions, there may be jumps in the data where the radar tracked onto one of these obstructions instead of the water. By performing a mapping in the radar, you can eliminate all possible fixed obstructions that are causing jumps in the data. Doing a mapping in the radar lets the radar know where there are obstructions that cause false reflections, and then the H-3611 radar will ignore these reflections and track only the water reflections.

### Step 1: Remove Display

To remove the LCD display from the H-3611 housing, there is a small clip on the display closest to the horn. Push to release the display.



### Step 2: Basic Setup Menu

From the main screen as shown in image 1, press the 'E' key and this will open the 'group selection' menu as shown in image 2.



Image 1: Display Main Screen



Image 2: Display Group Selection Menu

### Step 3: Check Distance Menu

Using the '-' and '+' keys, highlight "manual" and then press the 'E' key to select, which will put a check mark next to the option. Press the 'E' key again to continue.

### Step 4: Range of Mapping Menu

Using the '-' and '+' keys, enter in the range of mapping value pressing the 'E' key to accept a character. This value should be a distance value that is just before the actual distance to water value. **The value you enter is "distance to water" - 2 ft.**

For example, if the distance to the water value is about 7 ft. then put 5 ft. as the range of mapping value. If the range of mapping value is set beyond the distance to water value, then the H-3611 Radar will map past the water, not to the water. Press the 'E' key to continue.

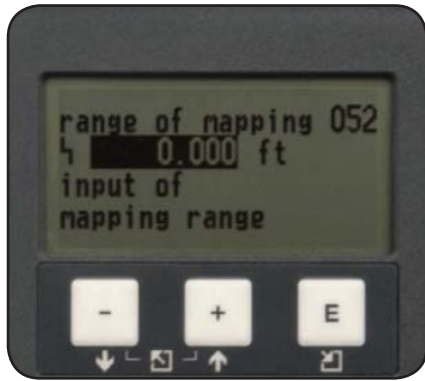


Image 3: Range of Mapping Menu

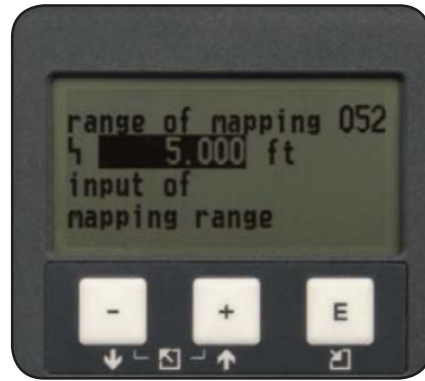


Image 4: Range of Mapping Menu

### Step 5: Start Mapping Menu

Highlight "on" and press the 'E' key. Doing this will put a check mark next to "on" and cause a mapping to initiate. The screen will blink the message "Record Mapping" as shown in image 5. The highlight and check mark will return to "off" when the mapping is done (see image 6).



Image 5: Mapping initiating



Image 6: Mapping complete

### Step 6: Finished

Press the 'E' until back to the "Group Selection" menu, then press the '-' and '+' buttons together to return to the "Measured Value" screen. Verify that the measured distance to water value looks correct.