

## **Why Is This Feature Important**

This feature is used when you are lost or used to prevent you from getting lost. If you are ever lost, the feature will give you your GPS coordinates. This will allow other people to locate you.

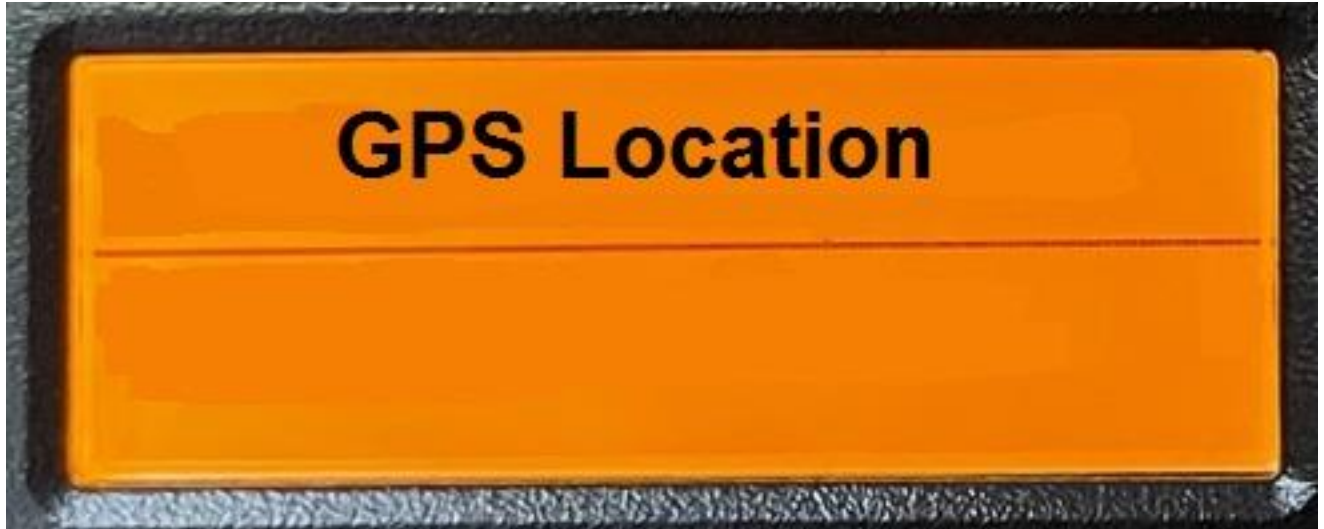
If you want to explore an area you are not familiar with, you tag your current location. When you start exploring and you want to go back to the location you tagged, this feature will help you find your way back.

## **Diagnostic**

When the display shows the latitude and longitude, it indicates the GPS module is working.

## How it works

When the GPS Location feature is started, the display shows the following:



If voice is enabled, then the radio will announce “GPS Location On”. It will then have a two second delay.

If the GPS is not ready after the two second delay, then the following screen will appear:



If voice was enabled, "GPS not ready" will be annunciated.

After those two seconds, and the GPS has locked on and it can tell its position, the display will look as follows:



This location will be updated every second.

Any time we loose lock, we will go back to the GPS Not Ready screen.

Pressing P4 will save the current location. If voice is enabled, the radio will Annunciate “GPS Location Saved” and show the following screen.



Two seconds later it will go back to the standby screen of showing the locations as shown below.



Pressing P2 will display the saved GPS location. If voice is enabled, the radio will announce "Saved Location Displayed". The screen will look like the following:



Two seconds later it will go back to the standby screen which will look the same but have different values.

Pressing P3 will set the radio to tracking mode. In this mode, the radio will display the distance from the saved location to the current location. If voice is enabled, the radio will Annunciate "Tracking Mode entered. Then the display will show:



The position will be updated every second. Pressing any key will revert to the standby mode as shown below.

The purpose of this mode is to allow the user to find their way back. You start by saving your current location. Then you wander off someplace, not knowing where you are and you want to find your way back.

When you get in this mode you look at the distance. If the distance is decreasing you are going in the right direction but if it is increasing, you are going in the wrong direction. This display represents the distance from where you were to your current location.

Pressing P1 will announce “Line one” followed by the announcement of what is on line 1 character by character. It will then announce “Line two” and announce what is on line 2 character by character.

Pressing P7 will exit from this feature and if voice is enabled, will announce “GPS Location Off”.