

Setting up your Icom IC-E2820 & IC-E92 for GPS DVG mode operation.

This document explains how to set up GPS TX MODE (DV-G), not GPS-A, which will show your position on other D-Star transceivers & the APRS servers.

To set up your IC-E2820 & IC-E92D to use GPS (DPRS) mode you will need to create a checksum code to enter in the GPS message in the 2820 & the 92, this can be done by using the D-PRS Calculator created by Pete Lovell AE5PL.

To set up your IC-E2820 to send GPS Data (DV-G) you need to set the following parameters,

MENU > DV GPS >

GPS SENTENCE = RMC & GGA on, all others OFF

GPS TX = GPS (not GPS-A)

GPS AUTO TX = OFF (*GPS data will be transmitted when you press your PTT*)

GPS MESSAGE = (enter your checksum code created by the D-PRS calculator)

When your 2820's GPS is receiving a valid signal the GPS symbol will stop flashing (this can take some time). So with DVG on your 2820's display you should have successful GPS data transmission when you press your PTT.

To set up your IC-E92D,

MENU > DV SET MODE >

GPS TX MODE = GPS > SENTENCE = RMC & GGA = ON, all others OFF.

GPS AUTO TX = OFF (*GPS Data will be transmitted when you use your PTT*)

MENU > MESSAGE/POS > GPS > (enter your checksum code created by the D-PRS calculator)

On your 92's display you should see DV-G for successful GPS data transmission.

The Checksum code is unique to the callsign & the APRS symbol that you select in the D-PRS Calculator, for example the code below is what G1ZRN uses in his IC-E92D, it refers to the Rover symbol 🚙 as he is usually walking with his dogs when using his 92.

MYCALL G1ZRN P

LP MIKE DSTAR*5A

^^ there are two spaces between the P & M

The code in G1ZRN's mobile 2820 🚗 is

MYCALL G1ZRN M

MV MIKE DSTAR*5D

^^ two spaces between the V & M

and the code in G1ZRN's shack 2820 🏠

MYCALL G1ZRN

BN MIKE DSTAR*4A

^^ two spaces between the N & M

By setting GPS TX MODE to GPS and not GPS-A all the above examples will be seen both on other 2820's & 92's (world-wide through the DStar network) and the APRS servers such as APRS.fi

* Important : * The reason we ask that you don't use Auto GPS beacons on the Reflectors, when the repeater becomes clear in between overs, the Auto Beacon transmits, this is fine on simplex, but on a repeater it will clash with other users stopping their transmissions from being passed through the repeater and onto the Reflectors. So please disable your AUTO Beacon, your position will still be transmitted when you use the Repeaters normally. Thank you.*