

## Set-up for Kenwood D7A Hand Held with the AVMAP G4T

1. Kenwood D7A set-up.
  - a. While programming the Kenwood D7 and/or the AVMAP G4T, the communication cable should be disconnected. Strange and/or bad things can occur if you fail to heed this warning!
  - b. Starting with the Kenwood D7. Note: Items in [ ] are buttons and { } are items you enter and/or 'see' on the radio screen.
  - c. Push the [Power] button to turn the radio on.
  - d. Make sure that {T} and {CT} do not appear at the top of your D7A screen, if they do press the [F] button then [BAL] button to turn [T] off or the [F] button then [POS] button to turn off [CT].
  - e. Press the [MENU] button and use the [Control Pad] (the top or bottom of the large round key pad on the left middle side of the D7A) to get to the APRS setup menu {APRS 2-X} (the X here can be any letter or number) and press the [OK] button (the right side of the [Control Pad]) to select/enter. Then use the [Control Pad] again to choose the APRS screen you desire and press [OK] to select/enter.

**Table 1. Kenwood D7A Settings**

The following APRS menu selections <b>must</b> be selected and/or filled in for proper D7A/G4T operations. <b>Screen #</b>	<b>Item</b>	<b>Select/Enter</b>
2-1	CALL SIGN	<i>{your call sign}</i>
2-2	GPS UNIT	<b>{NEMA96}</b>
2-3	WAYPOINT	<b>{9digits NEMA}</b>
2-5	POS AMBIGUITY	<b>{OFF}</b>
2-7	POS LIMIT	<b>{OFF}</b>
2-B	PACKET PATH	<b>{WIDE1-1,WIDE2-2}</b>
2-C	DATA TX	<b>{AUTO}</b>
2-D	PACKET TRANSMIT INTERVAL	{3 MIN.} <small>NOTE: Smaller times (&lt;5min) are for mobile units while stationary stations will use longer times (~10 min. and up)</small>
2-N	PACKET SPEED	<b>{1200 bps}</b>

- f. Press the [ESC] button twice to leave the APRS setup screen and return the D7A user screen.
  - g. You can now power down the radio and it will keep your settings.
2. AVMAP G4T set-up.
  - a. While programming the AVMAP G4T and/or the Kenwood D7A, the communication cable should be disconnected. Strange and/or bad things can occur if you fail to heed this warning!

- b. Items in [ ] are buttons and/or knobs and { } are items you enter/see on the G4T screen.
- c. Begin by pressing the [Page] button to turn the G4T on.
- d. You will be using the [cursor knob] (it's the tall center knob with the four arrows on it) to move the cursor around to choose 'items' and the [+] button to select/enter.
- e. After the "Welcome on board" greeting use the [cursor knob] to select {YES} when asked about the {Would you like to drive in Passenger Mode?} and press the [+] button to select/enter.
- f. Press the [MENU] button twice to get to the {MAIN MENU} screen.
- g. Use the [cursor knob] to choose {System Setup} and press the [+] button to select/enter.
- h. Select the {Simulator} tab and make sure the {Simulation} box is **not** checked.
- i. **Please note the software version:**
  - (ver. 2.06) Select the {Interface} tab and select/enter {NEMA} under {Serial Interface} and {NEMA 9600} under {External Port Driver}. Push [ESC] twice to exit.
  - (ver. 2.07 or higher) Select the {Interface} tab and select/enter {APRS} under {Interface} and {9600} under {Baud Rate}. Push [ESC] twice to exit. (NOTE: Some users may see "Radio Link" instead of APRS).
- j. Push and hold the [PAGE] button to get to the three second power down count to turn the G4T off. NOTE: This can be a little tricky in that your timing has to be good or else the unit will power itself back up again!

### 3. Making it all work!

- a. Make sure both the Kenwood D7A and AVMAP G4T are turned OFF!
- b. Connect the four pole 2.5mm communication cable end to the G4T's TMC receptacle and the three pole 2.5mm end to the D7A's GPS receptacle. **IMPORTANT!** These are easily reversed and hooked up backwards...also...when connecting to the G4T make sure you plug into the TMC receptacle...not the ANT receptacle which is right next to it and the same size!
- c. NOW POWER UP BOTH UNITS!
- d. Make sure the D7A is on the two meter band and the channel is set to 144.390.
- e. OK here we go! Press the [TNC] button on the D7A. This will open the {TNC} of your D7A and communications between the G4T and D7A should now begin. NOTE: Make sure that the radio isn't in [TNC PACKET] mode.
- f. DOES IT WORK?? Press the [POS] button. This will bring up the coordinates screen. **IF** the G4T is talking to the D7A you should see the (degrees, periods and commas) blinking...if they are not blinking you are **NOT** communicating. Press the [POS] button again to return to the normal user screen.