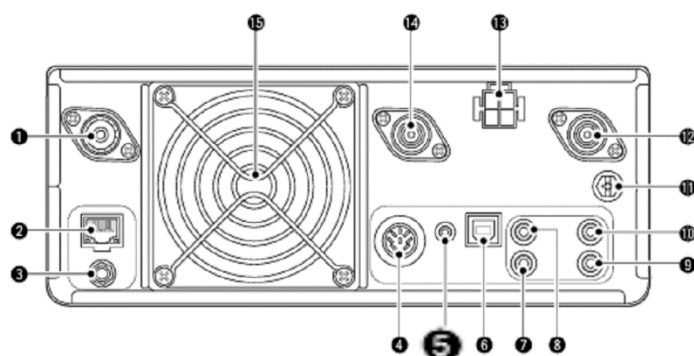The following is an extract from the IC9700 basic and advanced user manuals to assist the setup and use of external GPS receiver for time, position, and grid locator.

IC9700 Basic Manual Page1-3

5   DATA JACK [DATA] (p. 13-2)

Connects to devices to control an external unit or to control the transceiver with 2.5 mm (1⁄10") stereo plug.
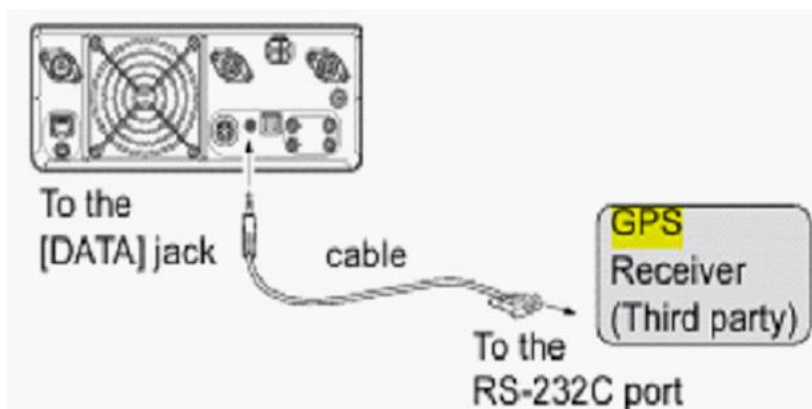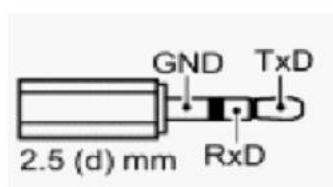
Basic Manual Page 13-2

5. DATA

Connects a PC through a data communication cable (user supplied), for data communication, DV Gateway functions or remote controlling by CI-V commands. Using the optional communication cable, you can use the RS-MS1A application. Connecting a GPS unit (NMEA compatible) or GPS output compatible Icom transceiver (Example: ID 31PLUS) enables the received position data to be displayed on the IC-9700's display.
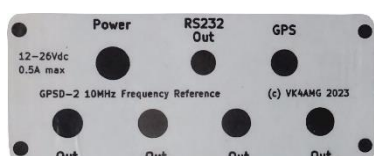
Advanced User Manual   Page 8-1

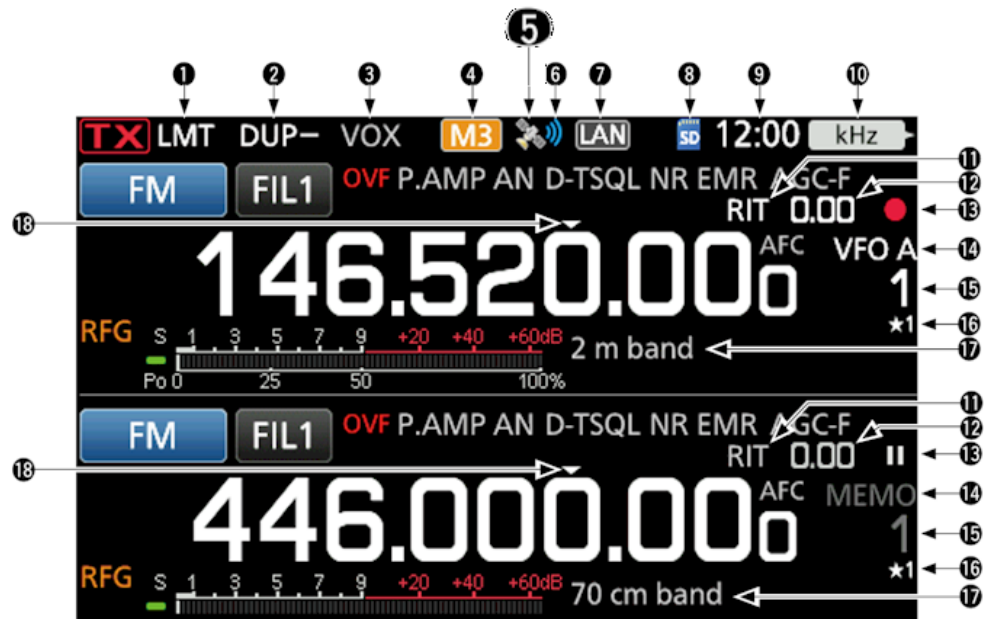Mono plugs may be used where GPS NMEA sentences are being sent to radio from GPS receiver.

GPSD-2 10Mhz Frequency Reference rear panel connections.

10 MHz Reference by VK4AMG 2023/24. – City Of Brisbane Radio Society inc.

NMEA RMC, GGA, and GSV output from RS-232 Out 3mm mono Jack.

IC9700 Basic Manual Page 1-4
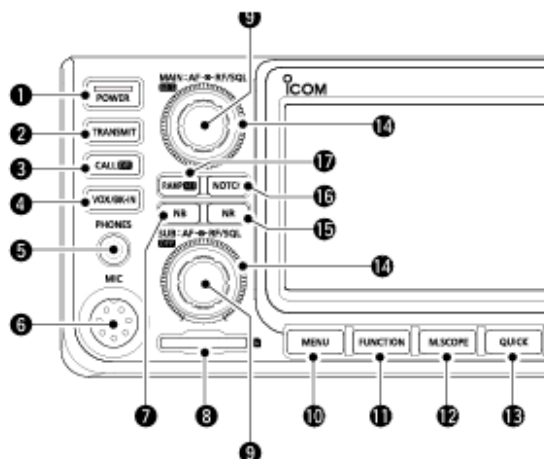
Touch screen display

5. GPS ICON

Displays the status of the connected GPS receiver. Symbol present if GPS connected and valid.

Front panel

This section describes the keys, controls and dials that you use to operate the IC-9700.
Refer to the pages posted beside each key, control, or dial for details.

⓭ QUICK KEY QUICK (p. 1-6)
Opens the QUICK MENU screen.

Basic Manual Page 1-6

Push 1-6 QUICK to open the QUICK MENU screen.

DATA Function   (Default: GPS/Weather)

Basic Manual Page 8-14

Sets the function to be assigned to the [DATA] jack.

- OFF: Does not assign the function to the [DATA] jack.
- RTTY Decode: Outputs the decoded data of the RTTY signal.
- DV Data: Inputs or outputs low speed data for the DV mode.
- GPS/Weather: Selected when connecting a GPS receiver.
- CI-V: Inputs or outputs CI-V commands.

Basic Manual Page 8-18

Time Set

MENU » SET > Time Set > **Date/Time**
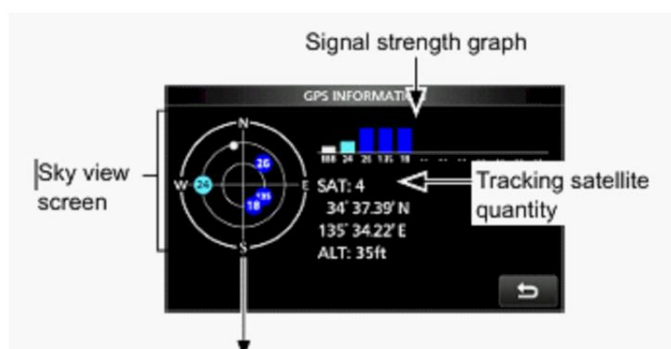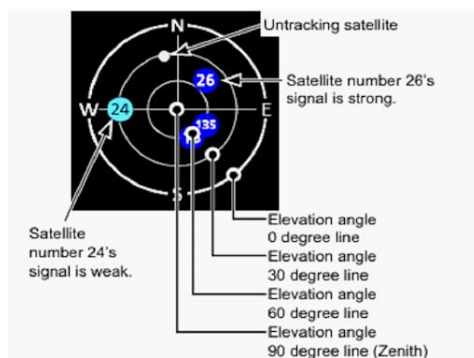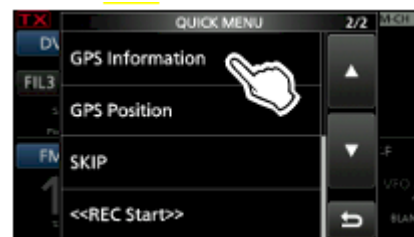
GPS Time Correct (Default: Auto)

Select whether or not the time data is automatically corrected by a received GPS sentence.

Advanced User Manual   Page 8-4

Checking GPS information (Sky view screen)

The GPS Information displays the quantity, signal power, and position of the GPS satellites. The sky view screen displays the position of GPS satellites. The screen also displays the direction, elevation angle, satellite numbers, and their receiving signal strength status.

1. Push QUICK.
2. Touch "GPS Information."

Checking your position

Displaying Position Data

1. Push QUICK in the standby mode.
2. Touch "GPS Position."
   The GPS POSITION screen is displayed.

Advanced User Manual   Page 8-9

About the Grid Locator

Grid Locator (GL) is a position compressed into a 6 character code, calculated by the longitude and the latitude. The locator is simply calculated by dividing the earth surface into squares. It is used to find the area of a transceiver station.