

GPS Connection

Data In and Out

For GPS navigation, connect the GPS unit via the outside of the two 6 pin socket.

Pin 1	NMEA Rx +
Pin 2	NMEA Rx -
Pin 3	NMEA Tx + (heading information)
Pin 4	NMEA Tx - "
Pin 5	TMQ Data Rx + (TMQ Rate sensor)
Pin 6	TMQ Data Rx - "

Data In Connection Examples:

For any GPS unit which has a BNC type output plug (a bayonet plug, with a core and shield), eg for the JRC brand JLU-121, JLR-6000 or NWU-53, connect the core to **NMEA Rx +** and the shield to **NMEA Rx -**.

For any GPS having open wires, connect **TX+** to **NMEA Rx +** and **TX-** to **NMEA Rx -**

For a GPS with the following marking, connect **Data Out +** to **NMEA Rx +** and **Common** to **NMEA Rx -**.

For a Plotting system, connect **Data Out +** to **NMEA Rx +** and **Data Common** to **NMEA Rx -**.

For information on connecting other types of GPS units, refer to the owners manual.

Programming the GPS unit

This is the part of the GPS-to-autopilot connection that causes the majority of problems. The **AP50** autopilot looks for **APA**, **APB**, **XTE** and **BOD** information in the **NMEA 0183** data format. For more information on this, see the Operations section of this manual and consult your **GPS unit** manual.