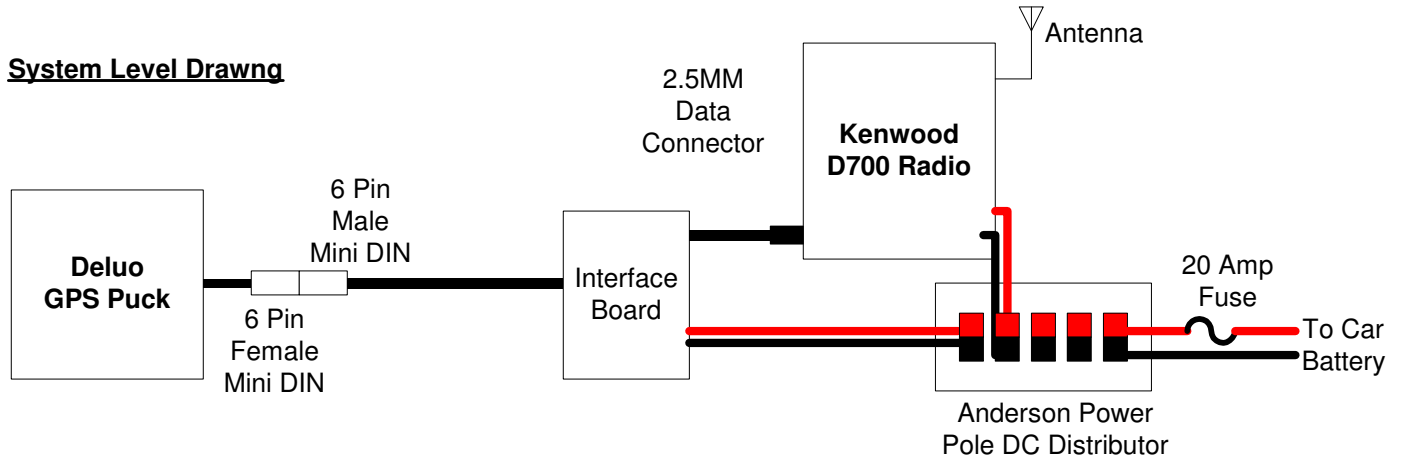
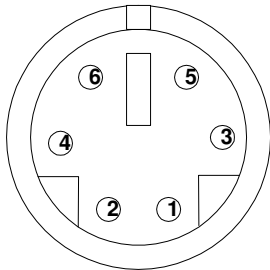


Interfacing a Deulo GPS Serial Puck to a Kenwood D700 Radio

System Level Drawing



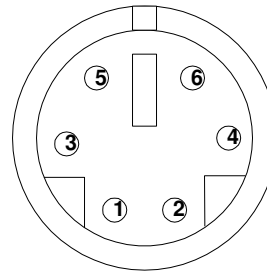
Deluo GPS Puck looking into 6 pin Female Mini DIN Connector



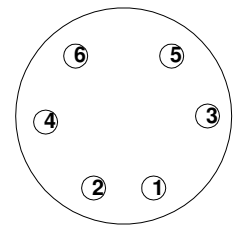
- | | |
|------------------------|----------|
| 1. Ground | (Black) |
| 2. +5 Vdc | (Red) |
| 3. RS232 RX (Data In) | (White) |
| 4. TTL RX | (Blue) |
| 5. TTL TX | (Yellow) |
| 6. RS232 TX (Data Out) | (Green) |

NOTE: The DC input on the Deluo puck is +5VDC. If you wish to run the puck from a 13.8VDC automotive source, the voltage must be regulated to +5VDC or you will burn up the puck.

6 pin Male Mini DIN Connector from front



6 pin Male Mini DIN Connector from Rear (Solder Cups)



Connector Information and Pin Outs

Many will wish to cut off the connector on the puck and wire directly to the interface they are building. Color code and pin out for the puck wiring is provided above.

Since I had no wish to void the warranty, I wired my interface to a 6 Pin Male Mini DIN connector. Pin out information on the male connector is provided above.

The Puck as provided outputs NMEA 0183 2.2 information. There were no changes made in the software.

A 6 Pin Male Mini DIN is a standard PS2 Mouse or Keyboard Connector. Consider cutting off an existing cable from a defective mouse or keyboard.

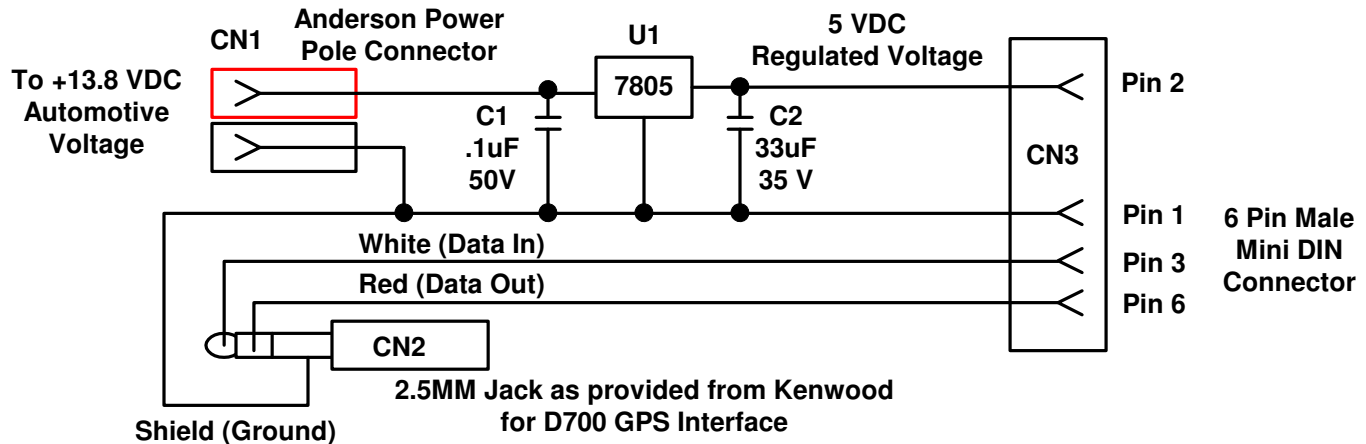
See next page for details.

| Date | Revision/Addition/ Note | by |
|---------|--|-----|
| 7/12/07 | Original design and drawing | GSC |
| 7/12/07 | Added Proto board drawing | GSC |
| 7/13/07 | Added Material List, fixed spelling errors | GSC |

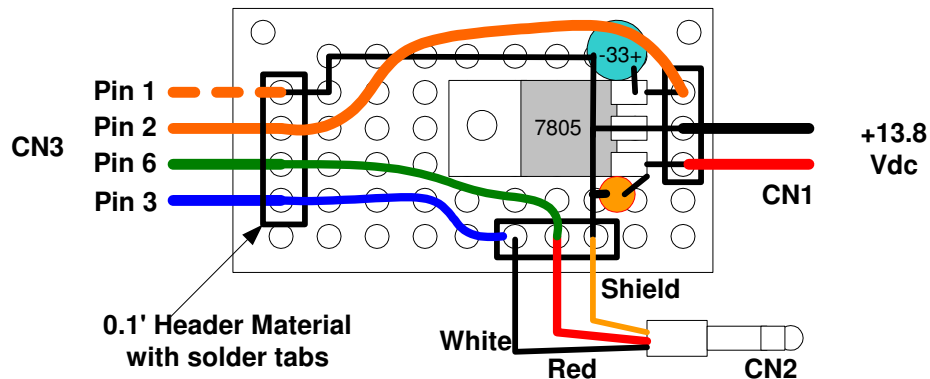
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|---|-------------------------------|---|----------------|
| Drawn By: Gerald Crenshaw WD4BIS | Date: July 13, 2007 | From the bench of: Amateur Radio Station WD4BIS | Page 1 of 2 |
| Engineer: Gerald Crenshaw WD4BIS | Date: July 13, 2007 | Title: Deluo GPS Serial Puck to Kenwood D700 Interface | |
| Checked By: Janet Crenshaw WB9ZPH | Date: July 13, 2007 | | |

Interfacing a Deluo GPS Serial Puck to a Kenwood D700 Radio

Schematic Information



Proto Board Wiring



Materials List

- C1, 0.1uF 50V Capacitor
- C2 33uF 35V electrolytic Capacitor
- U1 7805 1Amp 5Vdc Regulator IC
- CN1 Anderson Power Pole connector
Red/Black Pair, 15Amp
- CN2 2.5MM Stereo Jack
(Provided by Kenwood with radio)
- CN3 6 Pin Mini DIN Male connector
- Misc 1 Small Perfboard (Used 1/4 of
a Radio Shack 276-148)
- Misc 2 .1" Header with solder tabs
- Misc 3 2 Pair Cable (Cat 5, 4 Pair
Stranded Cable was used.)
- Misc 4 Solder
- Misc 5 Enclosure, used a small Pill Bottle
or 2" of 3/4 PVC Pipe and two end
caps.

| | | | |
|---|-------------------------------|---|----------------|
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