

Sport Connector Definitions

Dual Display

Nov 14, 2006
First Release

Grand Rapids Technologies, Inc.

Revision History

First Release

Connector A Description- Master Unit

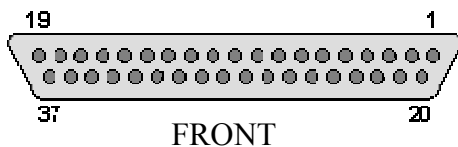
Mating Connector: 37-pin Female D-sub (Instrument has 37-pin Male D-sub)

Pin	Function	Wire Color	Pin	Function	Wire Color
1⇒	Primary Power Input	RED	20	Tone (Future use)	
2▽	Secondary Power Input	RED/BLU	21▽	Clock Power 12V @ <1 ma	RED/WHT
3⇒	GND	BLK	22	AP1 (Future use)	
4⇒	MAG_GND	BLK	23	AP2 (Future use)	
5⇒	MAG_X	WHT/GRN	24	AP3 (Future use)	
6⇒	MAG_Y	WHT/BRN	25	AP4 (Future use)	
7⇒	MAG_Z	WHT	26	TORQUE (Future use)	
8⇒	MAG_CNTRL	WHT/BLU	27	NAVAID (Future use)	
9⇒	MAG_PWR	WHT/RED	28	Warning Light (Future use)	
10▼	D4 Alt Encoder Output		29▽	OAT Sensor	GRY
11▼	C4 Alt Encoder Output		30	RX1 GPS Serial Input	
12▼	C2 Alt Encoder Output		31▽	RX2 EIS Serial Input	GRN/BLK
13▼	C1 Alt Encoder Output		32⇒	RX3 Inter-Display Link	ORANGE
14▼	B4 Alt Encoder Output		33	RX4 (Future use)	
15▼	B2 Alt Encoder Output		34▽	TX1 Autopilot Serial Output	BLUE
16▼	B1 Alt Encoder Output		35	TX2 Encoder Serial Output	
17▼	A4 Alt Encoder Output		36⇒	TX3 Inter-Display Link	VIOLET
18▼	A2 Alt Encoder Output		37	TX4 (Future use)	
19▼	A1 Alt Encoder Output				

⇒ Connected in wiring harness.

▽ Supplied as loose pinned wires.

▼ Optional wiring

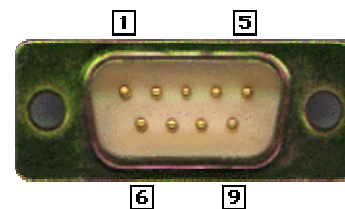
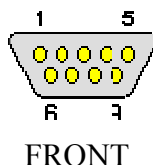


Connector B Description (Remote Magnetometer)

Mating Connector: 9-pin Male D-sub (Magnetometer has 9-pin Female D-sub)

Pin	Function	Wire Color	Pin	Function	Wire Color
1▲	MAG_Y	WHT/BRN	6▲	MAG_CNTRL	WHT/BLU
2▲	MAG_Z	WHT	7	No connection	
3▲	MAG_X	WHT/GRN	8	No Connection	
4▲	MAG_PWR	WHT/RED	9	No Connection	
5▲	MAG_GND	BLK			

▲ Customer inserts pins into connector after the wires are pulled through the airframe.



Connector A Description- Slave Unit

Mating Connector: 37-pin Female D-sub (Instrument has 37-pin Male D-sub)

Pin	Function	Wire Color	Pin	Function	Wire Color
1⇒	Primary Power Input	RED	20	Tone (Future use)	
2▽	Secondary Power Input	RED/BLU	21▽	Clock Power 12V @ <1 ma	RED/WHT
3⇒	GND	BLK	22	AP1 (Future use)	
4	Not used		23	AP2 (Future use)	
5	Not used		24	AP3 (Future use)	
6	Not used		25	AP4 (Future use)	
7	Not used		26	TORQUE (Future use)	
8	Not used		27	NAVAID (Future use)	
9	Not used		28	Warning Light (Future use)	
10	Not used		29	OAT Sensor	
11	Not used		30⇒	RX1 Inter-Display Link	VIOLET
12	Not used		31▽	RX2 EIS Serial Input	GRN/BLK
13	Not used		32	RX3 Internal GPS (Actually Tx)	
14	Not used		33	RX4 (Future use)	
15	Not used		34⇒	TX1 Inter-Display Link	ORANGE
16	Not used		35	TX2 (Future use)	
17	Not used		36	TX3 Internal GPS (Not avail.)	-----
18	Not used		37	TX4 (Future use)	
19	Not used				

- ⇒ Connected in wiring harness.
- ▽ Supplied as loose pinned wires.
- ▼ Optional wiring

