

# **Sport Connector Definitions**

Oct 14,2005  
Rev A

Grand Rapids Technologies, Inc.

## Revision History

Rev A – First version

## Connector A Description

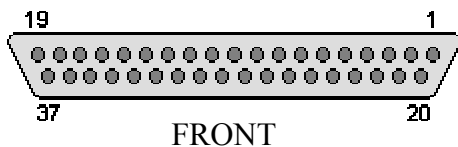
Mating Connector: 37-pin Female D-sub (Instrument has 37-pin Male D-sub)

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	GRY/RED
12▼	C2 Alt Encoder Output		31▽	RX2 EIS Serial Input	GRN/BLK
13▼	C1 Alt Encoder Output		32	RX3 (Future use)	
14▼	B4 Alt Encoder Output		33	RX4 (Future use)	
15▼	B2 Alt Encoder Output		34▽	TX1 Autopilot Serial Output	BLU
16▼	B1 Alt Encoder Output		35▽	TX2 Encoder Serial Output	
17▼	A4 Alt Encoder Output		36	TX3 (Future use)	
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.

