

MGS500 PIN

Pwr Connector (4-Pin Molex)

Pin	Harness Wire Colour	Description
01	Red	Main Power (8-30v)
02	White	Ignition Sense (+12v)
03	Black	GND
04		Reserved (MFG Test)

Aux Connector (18-Pin Molex)

Pin	Harness Wire Colour	Description
01	Blue	SW1 Input (12v sense)
02	Yellow	SW1 Input (12v sense)
03	Purple	SW3 Input (GND sense)
04	White	SW4 Input (GND sense)
05	Black	GND
06	White/Brown	Relay1 (negative coil drive)
07		Backup Battery
08	Green/Yellow	Relay2 (negative coil drive)
09		Relay4 (negative coil drive)
10	Orange	Switched +12v output 1
11		Relay3 (negative coil drive)
12		GND
13	Blue/White	SW5 Input (12v sense)
14	Grey	SW6 Input (12v sense)
15	Red/White	SW7 Input (GND sense)
16	Green	SW8 Input (GND sense)
17		GND
18	Brown	Analog Input (0-15v)

Ethernet (Rj-45)

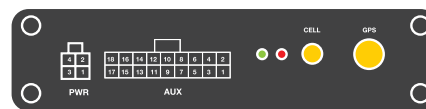
Pin	Harness Wire Colour	Description
01		TX+
02		TX-
03		RX+
04		Tied to 5
05		Tied to 4
06		RX-
07		Tied to 8
08		Tied to 7

Data Connector (22-Pin Molex)

Pin	Harness Wire Colour	Description
01	Black	Serial 1 RXD (in)
02	Brown	Serial 1 TXD (out)
03	Red	Serial 1 RTS (out)
04	Orange	Serial 1 CTS 9in)
05		Serial 3 TXD (out)
06		Serial 3 RXD (in)
07	Dark Blue	UART GND
08		N/C
09		N/C
10		N/C
11		N/C
12	Black	GND
13		1-Wire Data (in/out)
14		LED Output (+3.3v out)
15		N/C
16		Switched +12v output2
17		GND
18		N/C
19		SW9 Input (12v sense)
20		SW10 Input (12v sense)
21		SW11 Input (GND sense)
22		SW11 Input (GND sense)

Serial 2 (12 Pin Molex)

Pin	Harness Wire Colour	Description
01		Serial 2 TXD (out)
02		Serial 2 RXD (in)
03		Serial 2 RTS (out)
04		Serial 2 CTS (in)
05		Serial 2 DTR (out)
06		Serial @ DSR (in)
07		GND
08		Serial 2 DCD (in)
09		N/C
10		Serial 2 RI (in)
11		Switched+12v output 2
12		GND



FRONT PANEL



BACK PANEL