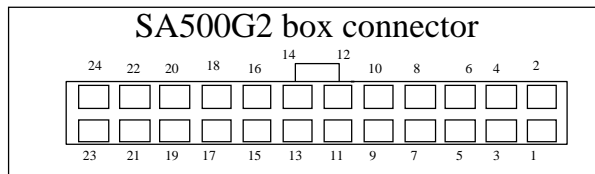


## Civinco SA500G2 - Victory Freedom cable harness specification



	Colour	pin	Type	i/o	Name	Info	Victory Freedom 36 pin
	black / white	1	Supply	in/out	signal GND	Gnd	14,32
	grey	2	Supply	out	5v out	TPS, Barometric sensor +5V supply	8
	orange	3	Grounding	out	ASD relay out	Fuel Pump Relay	2
	violet	4	Analog	in	Coolant temp in	Oil temp	12
	brown/green	5	Grounding	out	PWM1 out,	not used	
	blue	6	Analog	in	MAP sensor signal	Internal sensor w. hose	
	yellow	7	Grounding	out	Tacho output		20
	red/green	8	Analog	in	Throttle Position Sensor		29
	orange/white	9			PWM2 out	not used	
	red/yellow	10	Analog	in	AFR sensor in	Connected to external AFR sensor	
	black / green	11	Grounding/driving	out	IGN B out	Igniter, front cylinder 1	36
	green	12	Analog	in	Air temp	Air temp	11
	blue / red	13	Grounding/driving	out	IGN A out	Igniter, back cylinder 2	18
	blue / white	14	Digital in	in	Crank sensor input		15
	green/white	15	Grounding		FI_D_OUT	not used	
	white	16	Analog	in	Aux1 Analog	Aux1 analog or 12V battery monitor	
	brown / black	17	Grounding		FI_C_OUT	not used	
		18					
	brown / blue	19	Grounding	out	FI_B_OUT	Fuel injector 1, Front cylinder	19
		20					
	brown / yellow	21	Grounding	out	FI_A_OUT	Fuel injector 2, back cylinder	1
	red / white	22	Differential in		Cam sensor input	not used	
	black	23	Power Supply	in	Power GND	Gnd	4,5,35
	red	24	Power Supply	in	12 V Power	+12V	6,7

Tacho output needs maximum 330 Ohm pull up

OBS! Injector 1 to Fuel B, Injector 2 to Fuel A

OBS! Coil 1 to Ign B, Coil 2 to Ign A

### Victory 36 pin Connector -02

- 1 +5V to TPS
- 2 Signal Gnd to TPS
- 3 Ignition 2 to Igniter
- 4 +5V to MAP sensor
- 5 Signal Gnd to Coolant
- 6 Signal Gnd to IAT
- 7 Ignition 1 to Igniter
- 8 to TDX connector
- 9 Power ground in
- 10 +12V from kill switch
- 11 ASD to fuel pump relay
- 12 Power ground in
- 13 Power ground in
- 14 Signal ground in
- 15
- 16 to Check engine lamp
- 17 Tach output
- 18 Fuel 1 output
- 19
- 20 Signal ground to MAP
- 21 IAT sensor
- 22 Coolant sensor
- 23 RDX connector
- 24 Power ground in
- 25 TPS sensor
- 26 Barometric sensor
- 27
- 28
- 29
- 30 Crank sensor
- 31 Signal ground to crank sensor
- 32 Power ground in
- 33
- 34 Power ground in
- 35 Power ground in
- 36 Fuel 2 output

### Victory Freedom 36 pin Connector

- 1 Fuel 2 output
- 2 ASD to fuel pump relay
- 3
- 4 Power ground in
- 5 Power ground in
- 6 +12V with kill switch on
- 7 +12V with kill switch on
- 8 +5V supply for sensors
- 9 Diag connector
- 10 Speed sensor
- 11 IAT
- 12 Oil temp
- 13 MAP sensor
- 14 Signal ground (Reference for IAT, Oil temp)
- 15 Crank sensor
- 16
- 17
- 18 Ignition 1 to Igniter
- 19 Fuel 1 output
- 20 Tach output
- 21 Check engine lamp
- 22
- 23
- 24 Diag connector
- 25 12VDC power
- 26
- 27
- 28
- 29 TPS
- 30 Clutch and neutral sensor
- 31
- 32 Crank ground???
- 33
- 34 Power ground in
- 35
- 36 Ignition 2 to Igniter