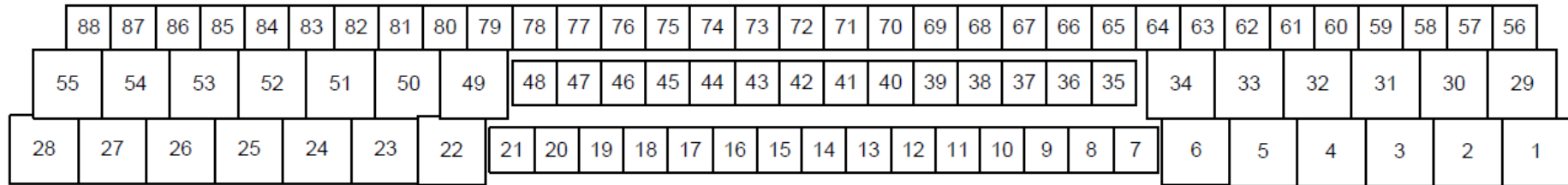


S8 Connector (Looking from the back of connector or ECU Header)



S8 ECU Pinout	S8 Pin Function	SCAL name	Description
1	PWRGND	Ecu Ground	ECU Power Ground - Are linked to all other Power Grounds on Board
2	IGN8	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
3	IGN7	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
4	IGN6	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
5	IGN5	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
6	Out10	Spare Output	Spare Pwm output Or Injector
7	Knk2	Knock Sensor 2	Bank2 Knock Sensor Input
8	IN16	Configurable Analogue Input	Any Type of Input, can be configured fully on software
9	in#14	Configurable Analogue Input	Any Type of Input, can be configured fully on software
10	in#12	Configurable Analogue Input	Any Type of Input, can be configured fully on software
11	in#10	Configurable Analogue Input	Any Type of Input, can be configured fully on software
12	Thermo#2-	K Type Thermocouple Negative Input	EGT2
13	thermo#2+	K Type Thermocouple Positive Input	EGT2
14	In7	Configurable Analogue Input	Any Type of Input, can be configured fully on software

15	In5	Configurable Analogue Input	Any Type of Input, can be configured fully on software
16	In3	Configurable Analogue Input	Any Type of Input, can be configured fully on software
17	In1	Configurable Analogue Input	Any Type of Input, can be configured fully on software
18	Lam#1V	NTK UEGO Sensor 1 Nernst Voltage	Grey Wire on NTK L2H2 Sensor
19	In#21	Thermistor Input	Thermistor Input type for Temp sensors
20	Out15	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
21	RS232#1TX	RS232 Transmit	
22	Out7	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
23	Out5	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
24	IGN4	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
25	IGN3	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
26	IGN2	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
27	IGN1	Ignition (20A Open Collector)	IGN Out can drive Coil Directly or via TTL - selectable in software, Also can be used to drive PWM
28	PWRGND	ECU Groung	ECU Power Ground - Are linked to all other Power Grounds on Board
29	PWRGND	ECU Ground	ECU Power Ground - Are linked to all other Power Grounds on Board
30	Out14	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
31	Out13	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
32	Out12	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
33	Out11	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
34	Out9	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
35	KNK	Knock Sensor Signal	Knock Input 1
36	In15	Configurable Analogue Input	Any Type of Input, can be configured fully on software
37	In13	Configurable Analogue Input	Any Type of Input, can be configured fully on software
38	In11	Configurable Analogue Input	Any Type of Input, can be configured fully on software
39	In9	Configurable Analogue Input	Any Type of Input, can be configured fully on software
40	Therm1-	K Type Thermocouple Negative Input	Egt1
41	In8	Configurable Analogue Input	Any Type of Input, can be configured fully on software
42	In6	Configurable Analogue Input	Any Type of Input, can be configured fully on software
43	In4	Configurable Analogue Input	Any Type of Input, can be configured fully on software
44	In2	Configurable Analogue Input	Any Type of Input, can be configured fully on software
45	Lam#2V	NTK UEGO Sensor 2 Nernst voltage	Grey Wire on NTK L2H2 Sensor
46	In22	Thermistor Input	Thermistor Input type for Temp sensors
47	Out16	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
48	RS232#1RX	RS232 Receive	

49	Out8	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
50	Out6	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
51	Out4	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
52	Out3	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
53	Out2	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
54	Out1	Fuel Injector (10A Open Collector)	Spare Pwm output Or Injector
55	PWRGND	ECU GND	ECU Power Ground - Are linked to all other Power Grounds on Board
56	VBAT	ECU +12V Supply	12v Ign Switch
57	VBAT	ECU +12V Supply	12v Ign Switch
58	H Bridge1	H Bridge1	DBW Motor+
59	H Bridge2	H Bridge2	DBW Motor -
60	H Bridge3	H Bridge3	DBW Motor+
61	H Bridge4	H Bridge4	DBW Motor -
62	10VOut	Low Current Programmable Supply Voltage	Programmable Voltage output for odd sensor
63	5VOut2	+5V Sensor Supply Output	5V Reference for sensors
64	5VOut1	+5V Sensor Supply Output	5V Reference for sensors
65	KNKGND	Knock Sensor Ground	Knock Sensor Ground
66	In#20	5V Analogue Input	Any Type of Input, can be configured fully on software
67	ANGND2	Sensor Ground #1	Sensor Ground
68	In#19	5V Analogue Input	Any Type of Input, can be configured fully on software
69	ANGND1	Sensor Ground #2	Sensor Ground
70	Therm1+	K Type Thermocouple Positive Input	
71	In#18	5V Analogue Input	Any Type of Input, can be configured fully on software
72	ANGND2	Sensor Ground #2	Sensor Ground
73	In#171	5V Analogue Input	Any Type of Input, can be configured fully on software
74	ANGND1	Sensor Ground #1	Sensor Ground
75	LAM#2I	NTK UEGO Sensor 2 Ion Pump	Lambda2 Ion Pump - White Wire on NTK
76	LAMI	NTK UEGO Sensor 1 Ion Pump	Lambda Ion Pump - White Wire on NTK
77	LamGND	Lambda Sensor Signal Ground	Lambda Signal GND - Black Wire on NTK
78	COMGND	RS232 Comms Ground	
79	CAN#2LO	Controller Area Network #2 Signal Low	
80	CAN#2HI	Controller Area Network #2 Signal High	
81	CAN#1LO	Controller Area Network #1 Signal Low	
82	CAN#1HI	Controller Area Network #1 Signal High	

83	In24	Thermistor Input	Thermistor Input type for Temp sensors
84	In23	Thermistor Input	Thermistor Input type for Temp sensors
85	LANRX+	100 BaseT Ethernet Receive	Lan Receive Positive
86	LANRX-	100 BaseT Ethernet Receive	Lan Receive Negative
87	LANTX+	100 BaseT Ethernet Transmit	Lan Transmit Positive
88	LANTX-	100 BaseT Ethernet Transmit	Lan Transmit Negative