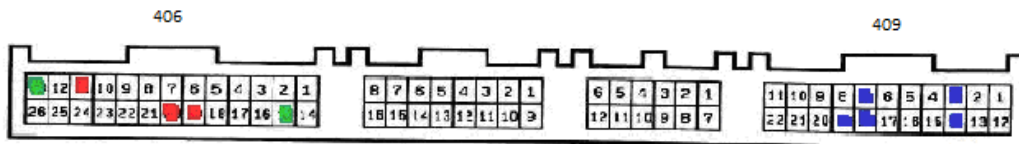


External 12way DTM Pinouts

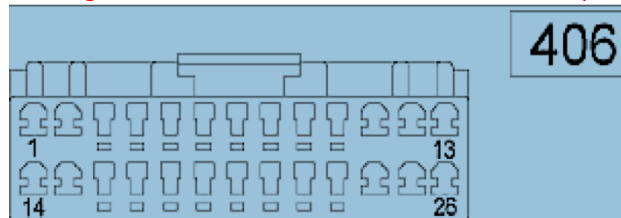
- 1 - IN25 - Spare 0-5v Input
- 2 - IN26 - Spare 0-5v Input
- 3 - IN27 - Spare 0-5v Input
- 4 - 5V - 5v Supply
- 5 - AN GROUND - Sensor Ground
- 6 - IN28 - Spare 0-5v Input
- 7 - H BRIDGE 1 - Spare Output, can be Lowside PWM or Joined with H Bridge 2 for full motor control
- 8 - H BRIDGE 2 - Spare Output, can be Lowside PWM or Joined with H Bridge 1 for full motor control
- 9 - H BRIDGE 3 - Spare Output, can be Lowside PWM or Joined with H Bridge 4 for full motor control
- 10 - H BRIDGE 4 - Spare Output, can be Lowside PWM or Joined with H Bridge 3 for full motor control
- 11 - N.C.
- 12 - N.C.

Gallardo 2008 Lift Wiring

The Gallardo LP520 came with an option for Front lift control in certain models. When fitting the Syvecs kit this will no longer work as certain functions are bypassed during the installation on the GFA unit. To make it work it needs to be wired back from the GFA Patch harness to the S12 as shown below.



Looking into front of male connector but has female pins



- S12 Pin 62 - GFA 406 - Pin25 is Solenoid Down
- S12 Pin 81 - GFA 406- Pin12 is Solenoid Up
- S12 Pin 14 - GFA 406 - Pin16 is going to Lift Switch
- S12 Pin 12 - GFA 407- pin12 is going to lift Position

Syvecs S12 Gallardo wiring

S12 ECU Pinout	S12 Pin Function	SCAL name	Connection
1	PWRGND	Ecu Ground	Ground
2	IGN1	Ignition (20A Open Collector)	Ignition1
3	IGN2	Ignition (20A Open Collector)	Ignition2
4	IGN3	Ignition (20A Open Collector)	Ignition3
5	IGN4	Ignition (20A Open Collector)	Ignition4
6	IN25		SPARE 0-5v Input
7	KNOCK4	Knock Sensor 2	Knock Sensor 2
8	KNOCKGND		Knock Grounds
9	THERMO2 +		SPARE EGT
10	IN21	Thermistor Input	Spare Thermistor Input
11	IN18	5V Analogue Input	Spare 0-5v Input
12	IN14	Configurable Analogue Input	Spare Programmable Input
13	IN11	Configurable Analogue Input	Exhaust Cam1
14	IN7	Configurable Analogue Input	Spare Programmable Input
15	IN4	Configurable Analogue Input	Map Sensor
16	IN1	Configurable Analogue Input	Engine Oil Pressure
17	LAMI 1		Lam1 ion
18	CAN LO 2		Spare CanBus
19	RS232 TX		RS232 Transmit
20	LAN RX-		Orange/White Cat5
21	FUEL 7	Fuel Injector (10A Open Collector)	Tacho Output
22	FUEL 3	Fuel Injector (10A Open Collector)	Injector 3
23	VBAT		12v Supply
24	PWRGND		Spare Ground
25	IN26	5V Analogue Input	Spare 0-5v Input
26	5V OUT	5V OUT	5v Ref
27	KNK1	KNOCK1	Knock Sensor 1
28	THERMO 1 -	THERMO 1 -	Spare EGT
29	IN22	Thermistor Input	Spare Thermistor Input
30	IN19	5V Input	Pedal Position 2
31	IN15	Configurable Analogue Input	Cam vvt1 in
32	IN12	Configurable Analogue Input	Spare Programmable Input
33	IN08	Configurable Analogue Input	A/C Switch
34	ANGND	SENSOR GROUND	Sensor Ground
35	IN02	Configurable Analogue Input	Air Charge Temp
36	LAMV 1		Lam1V
37	CAN HI 3		Spare CanBus
38	RS232 RX		Rs232 Receive
39	LAN RX+		White/Orange Cat5
40	FUEL8		VVT1 Intake
41	FUEL4		Injector 4
42	VBAT		12v Supply
43	PWRGND		Ground
44	IN27	5V	Spare 0-5v Input
45	5V OUT		5v Ref
46	KNOCK2		Knock Sensor2
47	THERMO1+		Spare EGT
48	IN23	Thermistor Input	Engine Coolant Temp
49	IN20	5V	Pedal Position 1

50	IN16	Configurable Analogue Input	Spare Programmable Input
51	ANGND		Sensor Grounds
52	IN09	Configurable Analogue Input	Exhaust Cam 2
53	IN05	Configurable Analogue Input	Crank Sensor
54	ANGND		Sensor Ground
55	LAMV2		Lam2 V
56	CAN LO 3		Spare CanBus
57	COMGND		Comms Ground
58	CAN HI 1		Connected Can Bus
59	LAN TX-		Green/White Cat5
60	FUEL5		VVT Exhaust 1
61	FUEL1		Injector 1
62	HBRIDGE5		Spare Half Bridge Output
63	IN28	5V	Spare 0-5v Input
64	10VOUT		Configurable sensor voltage output
65	KNOCK 3		Knock 3
66	THEMO 02 -		Spare EGT
67	IN24	Thermistor Input	Oil Temp
68	ANGND		Sensor Ground
69	IN17	5V	Spare 0-5v Input
70	IN13		VVT2 Intake
71	IN10	Configurable Analogue Input	Sport Switch
72	IN6	Configurable Analogue Input	Brake Pressure
73	IN3	Configurable Analogue Input	Spare Programmable Input
74	LAMI 2		Lam2 I
75	LamGND		Lambda Sensor Grounds
76	CAN HI 02		Spare Can Bus
77	CAN LO 1		Connected Can bus
78	LAN TX+		White/Green Cat5
79	FUEL6		Injector 5
80	FUEL2		Injector 2
81	H BRIDGE 6		Spare Half bridge
82	H BRIDGE 1		Spare Half Bridge
83	PWM4		Fuel Pump Relays
84	PWM8		Rad Fans
85	FUEL12		Injector 8
86	FUEL16		Injector 6
87	FUEL20		VVT Ex 2
88	FUEL24		VVT Intake 2
89	VBAT		12v Supply
90	H BRIDGE 2		Spare Half Bridge
91	PWM3		Throttle Relay
92	PWM7		Main Relay
93	FUEL11		Injector 7
94	FUEL15		Lambda Heaters
95	FUEL19		Spare Output
96	FUEL23		Spare Output
97	PWRGND		Ground
98	H BRIDGE 3		Spare Half Bridge
99	PWM2		Intake manifold Flap - Ideal for Boost solenoid
100	PWM6		Oil Pressure Gauge (Pin Write Enable on GFA)
101	FUEL10		Oil Temp gauge (Pin Crank waveform on GFA)
102	FUEL14		Injector 10
103	FUEL18		Spare Output
104	FUEL22		Spare Output

105	PWRGND		Ground
106	HBRIDGE4		Spare Half Bridge Output
107	PWM1		Spare Output
108	PWM5		Spare Output
109	FUEL9		Spare Output
110	FUEL13		Injector 9
111	FUEL17		Spare Output
112	FUEL21		Spare Output
113	PWRGND		Ground
114	IGN5		Ignition 5
115	IGN6		Ignition 6
116	IGN7		Ignition 7
117	IGN8		Ignition 8
118	IGN9		Ignition 9
119	IGN10		Ignition 10
120	IGN11		Ignition 11
121	IGN12		Ignition 12

Email Support@syvecs.co.uk for a base map to suit your setup.