Harness	FFJ105 Pin (LIB309)	Configuration	I/O	29/07/2005
	Ignition #3, Q303 GND Power Fuel pump relay		-	
4	Idle/EGAS #1 0313-,0309+	12V-PP,40V-OD	Out	Water Blower
5	Ignition #2, Q302 RPM meter Q405	40V-PP	Out	
8	Intake CAM sensor	220k-PD 0-6.1V 1k-PU/22k-AC	In	J202=Hall type
10	CAN-L 500kbaud Lambda- (Vs-Ip/YELLOW/LSU-	4.5) 25R to 2V5	In/Out	
11 12	Knock sensor + +5V reference	4.7k-AC Max 100 mAmps	In Out	
14	GND Power	1k in series GND Injection	In -	
15 16	Error/Shift light Q408 Injector #2 Q402 Injector #3 Q403 KL30 (constant batt 12V)	40V-OD 40V-OD	Out Out	
17	Injector #3 Q403 KL30 (constant batt 12V)	40V-OD	Out In	
DB9 pin 5 19	GND Signal	GND Shield	-	
21	GND Signal Ignition #4, Q307 Ignition #1, Q301	5V-PP/400V-OD 5V-PP/400V-OD	Out Out	
22	Heater (H-/WHITE/LSU4.4)	40V-OD	Out	VTEC J306=On
25	GND Signal IP or TI (Ip/RED/LSU4.6)	220R-PP	- Out	220R or Q412
26 27	Airflow - KL15 (ign) Lambda+ (Vs/BLACK/LSU4.1)	1k to GND 10 mAmp	In In	
28	Lambda+ (Vs/BLACK/LSU4.1) Speed driveline	674k-PD 0-5V	In In	
30		GND Knock sensor		
32	AUX:RPM/Evap/Freeburn/Oil	10k-PU, 40V-OD		Water Blower
33	Injector #1 Q401 Exhaust vanos Q406	40V-OD	Out	
36	Injector #4 Q404 Main power relay Q409	40V-OD	Out	
	KL87, (H+/GRAY/LSU4.3) 12V=ALS on	10 Amp if EGAS 1M-PD	In In	Pilot Brake
39	Left Speed input Laptimer input	60k-AC ABS 60k-AC	In In	
41	Wategate or Intake vanos  OV=Traction		Out In	Pilot Set
43	EGAS trottle, AFR/KnockOut	2.2M-PD/5V-PP	In/Out	Pilot Set
45	Air temp Water temp	4.7k-PU 0-5V 4.7k-PU 0-5V	In In	
	MAP or Height sensor Crank sensor +	2.2M-PD 0-5V 1k-PU/22k-AC	In In	J201=Hall type
	GND Signal CAN-H 500kbaud	GND Crank senson 120 Ohm load	or In/Out	
50	Exh CAM Sensor/Powershift Right Speed input	1k-PU 60k-AC ABS	In In	Pilot Resume
52	Potmeter	2.2M-PD 0-5V	In In/Out	
54	Rs meas (connected to 28) +5V reference	Max 100 mAmps	Out	
-	RS232 TXD	1k in series	Out	
5V-PP = Push pull output with drive between 0 and $5V$ with $20mAmps$ . 400V-OD = Open drain. Drives to GND, and is limited to $400V$ and $10Amps$ . 40V-OD = Open drain. Drives to GND, and is limited to $40V$ . 2 or $10Amps$ .				
<pre>1k-PU = 1kOhm pull-up resistor. Used with Hall element or switch to GND. 1M-PD = 1MOhm pull-down resistor. Used with 12V input signals. 22k-AC = 22kOhm AC load. Used with Inductive crank/cam sensors.</pre>				

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60k-AC = 60kOhm AC load. Used with ex. Inductive ABS sensors.

Ignition FET's IRFP450 cannot be mounted if 5V-PP ignition outputs is to be used. This is the case when external ignition modules are used.

J201 : 1k Pullup to 60-2. Mounted: Hall. Not mounted: Inductive. J202 : 1k pullup tp Intake Cam. Mounted: Hall. Not mounted: Inductive.

# EGAS Configuration:

#### \_\_\_\_\_

J304 mounted: H-bridge output on pin 4. J306 mounted: H-bridge output on pin 22.

Pin 52 = Potmeter is the potmeter in the cabin of the car. Pin 43 = Egas feedback is the potmeter on the trottle body.

# Not EGAS:

# \_\_\_\_\_

J304 not mounted: Pin 4 is driving low only. J306 not mounted: Pin 22 is driving low only. Pin 52 = Potmeter on the trottle body. Pin 43 = Can be used as 0-5V output, temp measurement (R243=4k7) or other.

# Using Wideband sensor:

# \_\_\_\_\_

Check if 56 Ohm mounted between pin 10 and 12 to get 2.5V on LambdaGND. Check if Pin 28 connected to pin 53 to measure sonde impedance. Wideband sensor Bosch 0 258 007 057. Harness Connector for wideband sensor: VW 1J0 973 733

# Using Lambda sensor:

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56 Ohm not mounted between pin 10 and 12 to reduce power consumption of ECU.