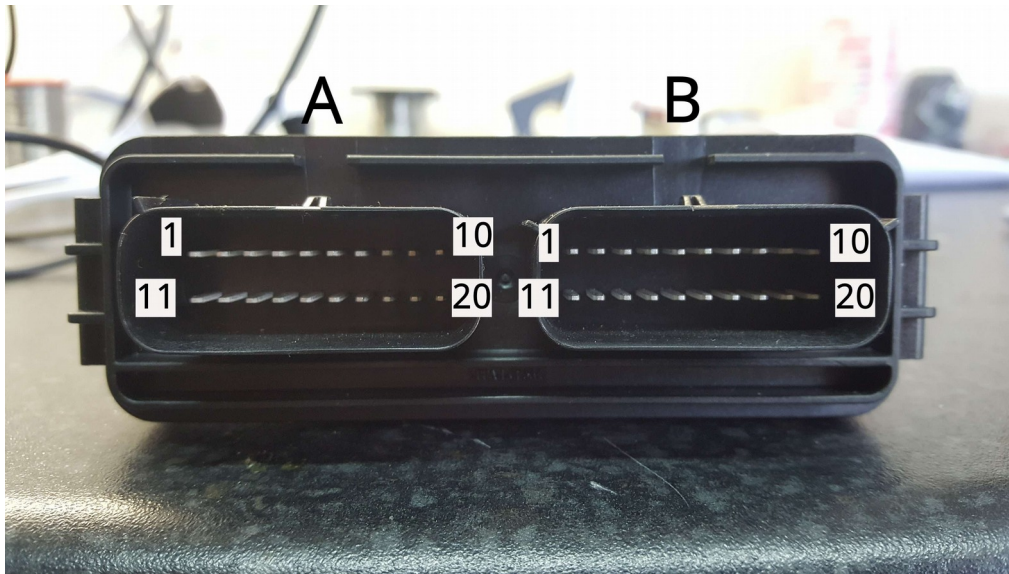


## ***Lexus GS450H Inverter / Transmission Controller V1 Connector pinout***

The controller requires two Molex plugs and pins.



Plug A p/n :33472-2002 (Grey in Colour)

Plug B p/n: 33472-2001 (Black in Colour)

Pin p/n:33012-2002

Plug A pinout :

1	-	Oil pump temp +
2	-	Oil pump temp -
3	-	Trans pump temp +
4	-	Trans pump temp -
5	-	MG1 temp +
6	-	MG1 temp -
7	-	MG2 temp +
8	-	MG2 temp -
9	-	Trans PB1
10	-	Trans PB2
11	-	Trans PB3
12	-	Trans SP
13	-	Trans SL1-
14	-	Trans SL2-
15	-	Oil pump relay(low side switch)
16	-	Oil pump PWM
17	-	12V Out
18	-	5V Out
19	-	Ground
20	-	Ground

Plug B pinout :

1	-	12V Supply In
2	-	Brake light switch input
3	-	IN2 (General purpose 12v digital input)
4	-	IN1 (General purpose 12v digital input)
5	-	OUT1 (General purpose low side switch)
6	-	Inverter Relay (low side switch)
7	-	MTH-
8	-	MTH+
9	-	HTM-
10	-	HTM+
11	-	REQ-
12	-	REQ+
13	-	CLK-
14	-	CLK+
15	-	5V Out
16	-	Throttle 2 Input (0-5v analog)
17	-	Throttle 1 Input (0-5v analog)
18	-	CAN Low
19	-	CAN High
20	-	Ground