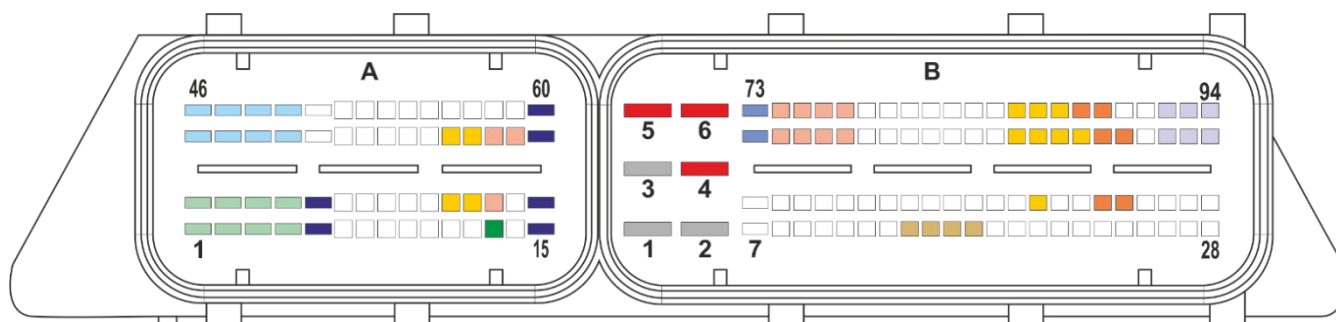


PINS DESCRIPTION (EN)

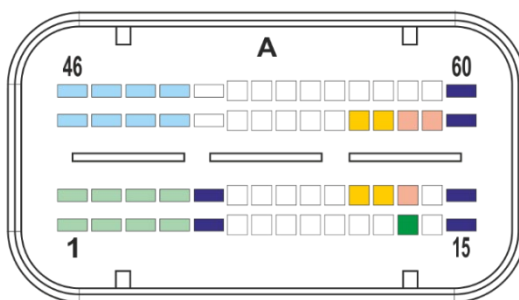
STAG Sigma ECU



	Part number	Remarks
Connector housing A	1-1355114-1	60 - pin
Connector housing B	1-1355125-1	94 - pin
Connector	968221-1	Connector A, Pins: 6-14; 21-29; 36-44; 51-59 i Connector B Pins: 8-28; 30-50; 52-72; 74-94
Connector	1241608-1	Connector A, Pins: 1-5; 15-20; 30-35; 45-50; 60 i Connector B, Pins: 7; 29; 51; 73
Connector	1241390-1	Connector B, Pins: 1-6



Connector A



Pin number		Connection Description
1	out	Ignition control cyl. 1
2	out	Ignition control cyl. 2
3	out	Ignition control cyl. 3
4	out	Ignition control cyl. 4
5	out	H-bridge channel 3 A
6	out	GND
7	-	-
8	-	-
9	out	GND
10	out	GND
11	out	GND
12	out	GND
13	in	Ignition input signal
14	-	-
15	out	H-Bridge channel 1 A

Pin number		Connection Description
31	out	Injector Control 1
32	out	Injector Control 2
33	out	Injector Control 3
34	out	Injector Control 4
35	-	-
36	-	-
37	in	Signal from the crankshaft sensor (inductive P)
38	in	Signal from the crankshaft sensor (inductive N or Hall)
39	-	-
40	-	-
41	in	Analog input 9
42	in	Analog Input 10
43	out	+5V Channel B Output
44	out	+12V Output
45	out	H-bridge channel 2 A

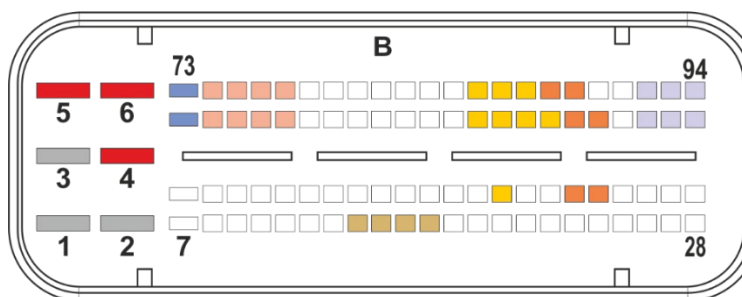
Pin number		Connection Description
16	out	Ignition control cyl. 5
17	out	Ignition control cyl. 6
18	out	Ignition control cyl. 7
19	out	Ignition control cyl. 8
20	out	Bridge H channel 3 B
21	-	-
22	in	CMP sensor signal 2 (inductive P)
23	in	CMP sensor signal 2 (Inductive N or Hall)
24	in	CMP sensor signal 1 (inductive P)
25	in	CMP sensor signal 1 (inductive N or Hall)
26	in	Analog Input 11
27	in	Analog Input 12
28	out	Output +5V channel A
29	-	-
30	out	H-Bridge channel 1 B

Pin number		Connection Description
46	out	Injector Control 5
47	out	Injector Control 6
48	out	Injector Control 7
49	out	Injector Control 8
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	-	-
56	-	-
57	in	Knock Sensor Signal 2
58	in	Knock Sensor Signal 1
59	-	-
60	out	H-Bridge channel 2B



Connector B

Pin number		Connection Description
1	in	GND from the battery
2	in	GND from the battery
3	in	GND from the battery
4	in	+ from the battery
5	in	+ from the battery
6	in	+ from the battery



Pin no.		Connection Description
7	out	Lambda 1 – Heating (LSU 4.9 PIN 3)
8	-	-
9	-	-
10	-	-
11	out	GND
12	out	GND
13	-	-
14	in	Signal from the exhaust gas temperature sensor 1
15	out	Exhaust Gas Temperature Sensor Power 1
16	in	Signal from the exhaust gas temperature sensor 2
17	out	Exhaust Gas Temperature Sensor Power Supply 2
18	-	-
19	out	GND
20	out	GND
21	out	GND
22	out	GND
23	out	GND
24	out	GND
25	-	-
26	-	-
27	-	-
28	-	-

Pin no.		Connection Description
51	out	AUX 1 – 12V
52	out	Output +12V
53	out	Output +5V channel A
54	out	Output +5V channel B
55	out	Output 5V channel C
56	in	Digital input 1 – 10k Up/Down +Bat, 4k7 +5V
57	in	Digital input 2 – 10k Up/Down +Bat, 4k7 +5V
58	in/out	Lambda 1 Un (LSU 4.9 PIN 6)
59	in/out	Lambda 1 Ip N (LSU 4.9 PIN 1)
60	in/out	Lambda 2 Un (LSU 4.9 PIN 6)
61	in/out	Lambda 2 Ip N (LSU 4.9 PIN 1)
62	-	-
63	in	Analog input 4 – 2k2 Up/Down, 330 Up
64	in	Analog input 5 – 2k2 Up/Down, 330 Up
65	in	Analog input 6 – 2k2 Up/Down, 1k Up
66	in	Analog input 7 – 2k2 Up/Down, 1k Up
67	in	Analog input 14 – Channel A – 2k2 Up/Down, 1M Up/Down
68	in	Analog input 16 – Channel B
69	-	-
70	out	AUX 6 side – GND
71	out	AUX 5 side – GND
72	out	AUX 4 side – GND

Pin no.		Connection Description
29	out	Lambda 2 – Heating (LSU 4.9 PIN 3)
30	-	-
31	out	TxD
32	in	RxD
33	in	Digital input 3 – 10k Up/Down +Bat, 4k7 +5V
34	in	Digital input 4 – 10k Up/Down +Bat, 4k7 +5V
35	-	-
36	in/out	Lambda 1 Ip P (LSU 4.9 PIN 5)
37	out	Lambda 1 VGND (LSU 4.9 PIN 2)
38	in/out	Lambda 2 Ip P (LSU 4.9 PIN 5)
39	out	Lambda 2 VGND (LSU 4.9 PIN 2)
40	out	Analog Output 1 – 0–5V
41	out	Analog Output 2 – 0–5V
42	in	Analog input 8 – 2k2 Up/Down, 150 Up
43	-	-
44	-	-
45	in	Analog Input Channel A - reference voltage
46	in	Analog input channel B - reference voltage
47	-	-
48	in	Digital input 1 - 0/1 (Switch)
49	in	Digital input 2 - 0/1 (Switch)
50	in	Digital input 3 - 0/1 (Switch)

Pin no.		Connection Description
73	out	AUX 2 – 12V
74	out	Output +12V
75	out	Output +5V Channel A
76	out	Output +5V Channel B
77	out	Output +5V Channel C
78	in/out	CAN 1 L
79	in/out	CAN 1 H
80	in/out	CAN 2 L
81	in/out	CAN 2 H
82	in/out	CAN 3 L
83	in/out	CAN 3 H
84	-	-
85	in	Analog input 1 – 2k2 Up/Down, 1M Up/Down
86	in	Analog input 2 – 2k2 Up/Down, 1M Up/Down
87	in	Analog input 3 – 2k2 Up/Down, 330 Up
88	in	Analog input 13 – Channel A – 2k2 Up/Down, 1M Up/Down
89	in	Analog input 15 – kanal B
90	-	-
91	-	-
92	out	AUX 3 strona – GND
93	out	AUX 2 strona – GND
94	out	AUX 1 strona – GND