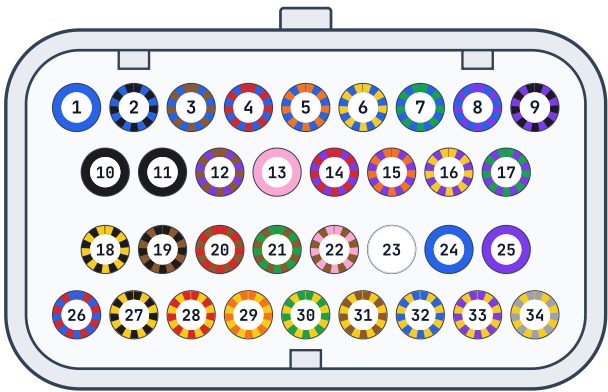


Haltech Nexus R5 pinout

ecurecovery.com/pinouts/haltech/nexus-r5 · Every pin checked against 2 Haltech documents · data checked 2026-11-01

Connector A · 34-pin

LOOKING INTO THE CONNECTOR ON THE ECU
Haltech's harness guide shows the plugs from the wire side with this same layout



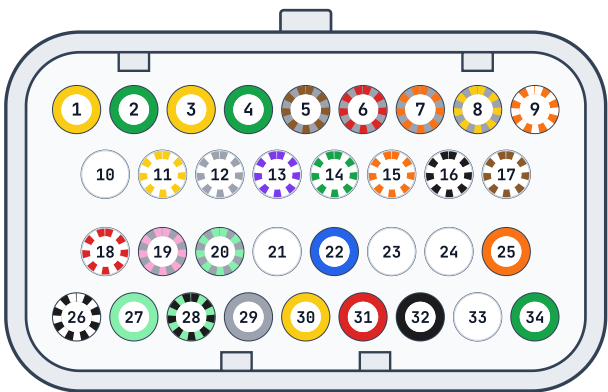
Connector B · 26-pin

LOOKING INTO THE CONNECTOR ON THE ECU



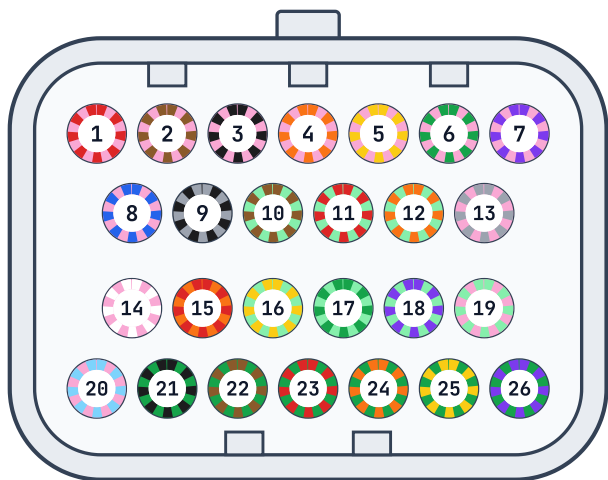
Connector C · 34-pin

LOOKING INTO THE CONNECTOR ON THE ECU



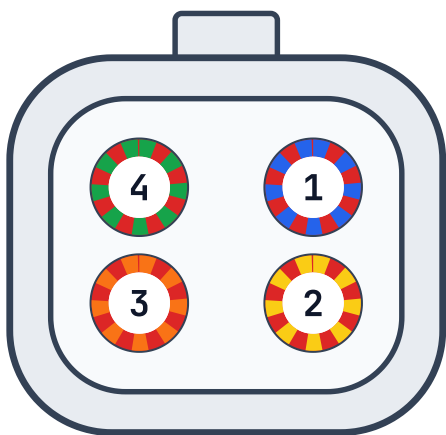
Connector D · 26-pin

LOOKING INTO THE CONNECTOR ON THE ECU



Connector E · 4-pin

LOOKING INTO THE PLUG, WIRE SIDE



Haltech Nexus R5 connector A pinout (34-pin)

Pin	Function	Wire
A1	Injector 1	 L Blue
A2	Injector 2	 L/B Blue with black stripe
A3	Injector 3	 L/BR Blue with brown stripe
A4	Injector 4	 L/R Blue with red stripe
A5	Injector 5	 L/O Blue with orange stripe
A6	Injector 6	 L/Y Blue with yellow stripe
A7	Injector 7	 L/G Blue with green stripe
A8	Injector 8	 L/V Blue with violet stripe
A9	DPO 1	 V/B Violet with black stripe
A10	Battery Ground Output	 B Black
A11	Battery Ground Output	 B Black
A12	DPO 2	 V/BR Violet with brown stripe
A13	Ignition Switch Input	 P Pink
A14	DPO 3	 V/R Violet with red stripe
A15	DPO 4	 V/O Violet with orange stripe
A16	DPO 5	 V/Y Violet with yellow stripe
A17	DPO 6	 V/G Violet with green stripe
A18	DPO 7	 B/Y Black with yellow stripe
A19	HBO 1	 BR/B Brown with black stripe
A20	HBO 2	 BR/R Brown with red stripe
A21	HBO 3	 BR/G Brown with green stripe
A22	HBO 4	 BR/P Brown with pink stripe
A23	CAN 1 H	 W White
A24	CAN 1 L	 L Blue
A25	DPO 8	 V Violet
A26	+12V Low Current Output	 R/L Red with blue stripe
A27	Ignition 1	 Y/B Yellow with black stripe
A28	Ignition 2	 Y/R Yellow with red stripe
A29	Ignition 3	 Y/O Yellow with orange stripe
A30	Ignition 4	 Y/G Yellow with green stripe
A31	Ignition 5	 Y/BR Yellow with brown stripe
A32	Ignition 6	 Y/L Yellow with blue stripe
A33	Ignition 7	 Y/V Yellow with violet stripe
A34	Ignition 8	 Y/GY Yellow with grey stripe

Haltech Nexus R5 connector B pinout (26-pin)

Pin	Function	Wire
B1	Injector 9	 LL Light blue
B2	Injector 10	 LL/B Light blue with black stripe
B3	Injector 11	 LL/BR Light blue with brown stripe
B4	Injector 12	 LL/R Light blue with red stripe
B5	Injector 13	 LL/O Light blue with orange stripe
B6	Injector 14	 LL/Y Light blue with yellow stripe
B7	Injector 15	 LL/G Light blue with green stripe
B8	Injector 16	 LL/V Light blue with violet stripe
B9	SPI 7	 GY/G Grey with green stripe
B10	SPI 8	 GY/V Grey with violet stripe
B11	SPI 9	 GY/L Grey with blue stripe

Pin	Function	Wire
B12	SPI 10	 GY/W Grey with white stripe
B13	CAN 3 H	 W White
B14	Injector 17	 LL/GY Light blue with grey stripe
B15	Ignition 9	 LY/B Light yellow with black stripe
B16	Ignition 10	 LY/R Light yellow with red stripe
B17	Ignition 11	 LY/O Light yellow with orange stripe
B18	Ignition 12	 LY/G Light yellow with green stripe
B19	CAN 3 L	 L Blue
B20	Injector 18	 LL/L Light blue with blue stripe
B21	Wideband 2 : Heater +	 GY Grey
B22	Wideband 2 : Input	 Y Yellow
B23	Wideband 2 : Pump	 R Red
B24	Wideband 2 : Nernst	 B Black
B25	Wideband 2 : Heater-	 W White
B26	Wideband 2 : Cal	 G Green

Haltech Nexus R5 connector C pinout (34-pin)

Pin	Function	Wire
C1	Trigger +	 Y Yellow
C2	Trigger -	 G Green
C3	Home +	 Y Yellow
C4	Home -	 G Green
C5	SPI 1	 GY/BR Grey with brown stripe
C6	SPI 2	 GY/R Grey with red stripe
C7	SPI 3	 GY/O Grey with orange stripe
C8	SPI 4	 GY/Y Grey with yellow stripe
C9	8V sensor power	 O/W Orange with white stripe
C10	AVI 1	 W White
C11	AVI 2	 W/Y White with yellow stripe
C12	AVI 3	 W/GY White with grey stripe
C13	AVI 4	 W/V White with violet stripe
C14	AVI 5	 W/G White with green stripe
C15	AVI 6	 W/O White with orange stripe
C16	AVI 7	 W/B White with black stripe
C17	AVI 8	 W/BR White with brown stripe
C18	AVI 9	 W/R White with red stripe
C19	SPI 5	 GY/P Grey with pink stripe
C20	SPI 6	 GY/LG Grey with light green stripe
C21	CAN 2 H	 W White
C22	CAN 2 L	 L Blue
C23	Knock 1	 W White
C24	Knock 2	 W White
C25	5V sensor power A	 O Orange
C26	Signal ground A	 B/W Black with white stripe
C27	AVI 10	 LG Light green
C28	AVI 11	 LG/B Light green with black stripe
C29	Wideband 1 : Heater +	 GY Grey
C30	Wideband 1 : Input	 Y Yellow
C31	Wideband 1 : Pump	 R Red
C32	Wideband 1 : Nernst	 B Black

Pin	Function	Wire
C33	Wideband 1 : Heater -	 W White
C34	Wideband 1 : Cal	 G Green

Haltech Nexus R5 connector D pinout (26-pin)

Pin	Function	Wire
D1	8A HCO 1	 P/R Pink with red stripe
D2	8A HCO 2	 P/BR Pink with brown stripe
D3	8A HCO 3	 P/B Pink with black stripe
D4	8A HCO 4	 P/O Pink with orange stripe
D5	8A HCO 5	 P/Y Pink with yellow stripe
D6	8A HCO 6	 P/G Pink with green stripe
D7	8A HCO 7	 P/V Pink with violet stripe
D8	8A HCO 8	 P/L Pink with blue stripe
D9	Signal ground B	 B/GY Black with grey stripe
D10	AVI 12	 LG/BR Light green with brown stripe
D11	AVI 13	 LG/R Light green with red stripe
D12	AVI 14	 LG/O Light green with orange stripe
D13	8A HCO 9	 P/GY Pink with grey stripe
D14	8A HCO 10	 P/W Pink with white stripe
D15	5V sensor power B	 O/R Orange with red stripe
D16	AVI 15	 LG/Y Light green with yellow stripe
D17	AVI 16	 LG/G Light green with green stripe
D18	AVI 17	 LG/V Light green with violet stripe
D19	8A HCO 11	 P/LG Pink with light green stripe
D20	8A HCO 12	 P/LL Pink with light blue stripe
D21	AVI 18	 G/B Green with black stripe
D22	AVI 19	 G/BR Green with brown stripe
D23	AVI 20	 G/R Green with red stripe
D24	AVI 21	 G/O Green with orange stripe
D25	AVI 22	 G/Y Green with yellow stripe
D26	AVI 23	 G/V Green with violet stripe

Haltech Nexus R5 connector E pinout (4-pin)

Pin	Function	Wire
E1	25A HCO 1	 R/L Red with blue stripe
E2	25A HCO 2	 R/Y Red with yellow stripe
E3	25A HCO 3	 R/O Red with orange stripe
E4	25A HCO 4	 R/G Red with green stripe

Where this comes from

Haltech harness quick start guide

[Universal Wire-in Harness for Nexus R5 VCU, Quick Start Guide \(Haltech HT-185201\)](#)

Haltech wiring diagram

[Nexus R5 VCU Wiring Diagram \(Haltech, document revision 2.3\)](#)

[Nexus R5 VCU Wiring Diagram \(Haltech, rev 2.3\) - rows read from the drawing](#)

Haltech wire colour codes

● B = Black ● BR = Brown ● G = Green ● GY = Grey ● L = Blue ● O = Orange ● P = Pink
● R = Red ● V = Violet ● Y = Yellow ● W = White ● LL = Light blue ● LG = Light green
● LY = Light yellow

Two letters: the first is the wire colour, the second is the stripe.