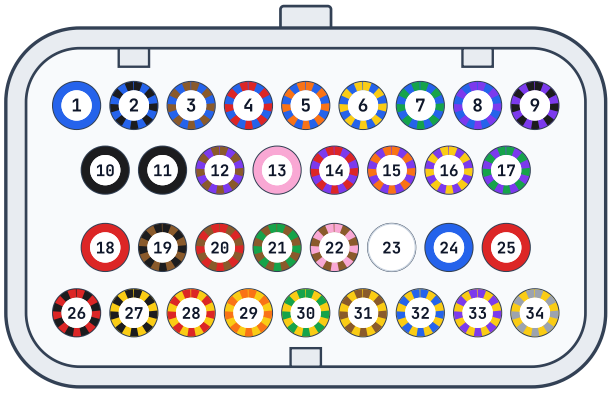
Haltech Nexus S3 pinout

ecurecovery.com/pinouts/haltech/nexus-s3 · Every pin checked against 2 Haltech documents · data checked 2026-11-01

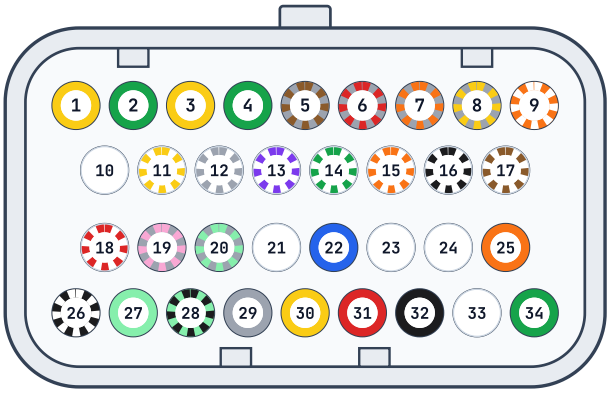
Connector A · 34-pin

LOOKING INTO THE CONNECTOR ON THE ECU



Connector C · 34-pin

LOOKING INTO THE CONNECTOR ON THE ECU



Haltech Nexus S3 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 (S3 only)	L/O	Blue with orange stripe
A6	Injector 6 (S3 only)	L/Y	Blue with yellow stripe
A7	Injector 7 (S3 only)	L/G	Blue with green stripe
A8	Injector 8 (S3 only)	L/V	Blue with violet stripe
A9	DPO 1	V/B	Violet with black stripe
A10	Battery Ground input	B	Black
A11	Battery Ground input	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	+12V switched input	R	Red
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	+12V switched input	R	Red
A26	ECR output	B/R	Black with red 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 (S3 only)	Y/BR	Yellow with brown stripe
A32	Ignition 6 (S3 only)	Y/L	Yellow with blue stripe

Pin	Function	Wire
A33	Ignition 7 (S3 only)	Y/V Yellow with violet stripe
A34	Ignition 8 (S3 only)	Y/GY Yellow with grey stripe

Haltech Nexus S3 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	O Orange
C26	Signal ground	B/W Black with white stripe
C27	AVI 10	LG Light green
C28	AVI 11	LG/B Light green with black stripe
C29	WBI 1 Heater +	GY Grey
C30	WBI 1 Input	Y Yellow
C31	WBI 1 Pump	R Red
C32	WBI 1 Nernst	B Black
C33	WBI 1 Heater -	W White
C34	WBI 1 Cal	G Green

Where this comes from

Haltech harness quick start guide

Nexus S3/S2 Universal Wire-in Harness, Quick Start Guide (Haltech HT-182200; copy hosted by Demon Tweeks)

Haltech wiring diagram

Nexus S3 / Nexus S2 Universal Wire-in Harness diagram (Haltech, document revision 1.1)

Nexus S3 / S2 Universal Wire-in Harness diagram (Haltech, rev 1.1) - 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
- LG = Light green

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