MaxxECU MINI pinout

ecurecovery.com/pinouts/maxxecu/mini · Every pin checked against 2 MaxxECU documents · data checked 2026-11-01

32-pin connector

LOOKING INTO THE PLUG'S MATING FACE, CAVITY LETTERS AS MOLEX (THE PLUG'S MAKER) PRINTS THEM



MaxxECU MINI 32-pin connector pinout

Mating connector: Molex 0643193211

Pin	Function	Wire	MaxxECU note
A1	TRIGGER	white	
A2	TRIGGER GND	brown	
A3	Not used	-	
A4	Not used	-	
B1	DIGITAL IN 1	black	
B2	DIGITAL IN 2	black	
B3	SENSOR GND	brown	
B4	SENSOR GND	brown	
C1	COOLANT SENSOR	black	
C2	AIR TEMP SENSOR	black	
C3	ANALOG IN 3 0-5V	black	
C4	ANALOG IN 4 0-5V	black	
D1	GP OUT 8/TACH	green	660ohm pullup
D2	THROTTLE SENSOR	black	
D3	SHIELD	-	
D4	SENSOR GND	brown	
E1	GP OUT 3	green	
E2	5V POWER SUPPLY	red	(peak 0.5A, max 150mA)

Pin	Function	Wire	MaxxECU note
E3	CAN L	pink	The first ~100pcs MaxxECU MINIs delivered in the beginning of 2019, was shipped with an harness error, where CAN H and CAN L was switched in harness (wrong color/label/documentation). Correct ECU pinout (regardless of cable color/labels): CAN H = E4, CAN L = E3.
E4	CAN H	grey	The first ~100pcs MaxxECU MINIs delivered in the beginning of 2019, was shipped with an harness error, where CAN H and CAN L was switched in harness (wrong color/label/documentation). Correct ECU pinout (regardless of cable color/labels): CAN H = E4, CAN L = E3.
F1	IGNITION CYL 1	blue	
F2	IGNITION CYL 2	blue	
F3	IGNITION CYL 3	blue	
F4	IGNITION CYL 4	blue	
G1	GP OUT 2	green	
G2	GP OUT 1	green	
G3	INJECTOR CYL 1	grey	
G4	ENGINE GROUND	brown	
H1	INJECTOR CYL 2	grey	
H2	INJECTOR CYL 3	grey	
H3	INJECTOR CYL 4	grey	
H4	12V ECU	red	

Where this comes from

MaxxECU's pinout table (online manual)

MaxxECU GEN1 Pinout (maxxecu.com online manual)

MaxxECU's wiring diagram for this ECU

MaxxECU MINI (REV10+) wiring diagram

Plug drawing: Molex customer drawing (used for the drawing only) Third party

Molex customer drawings SD-64320-001 (CMC 48-way) and SD-64319-001 (CMC 32-way)