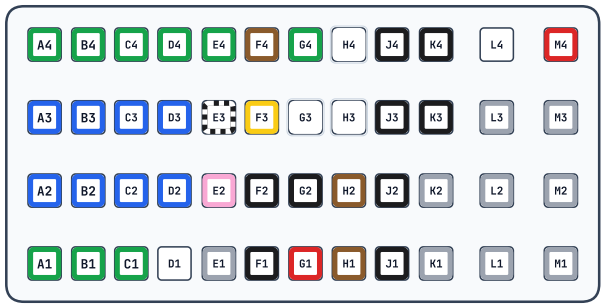
MaxxECU RACE pinout

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

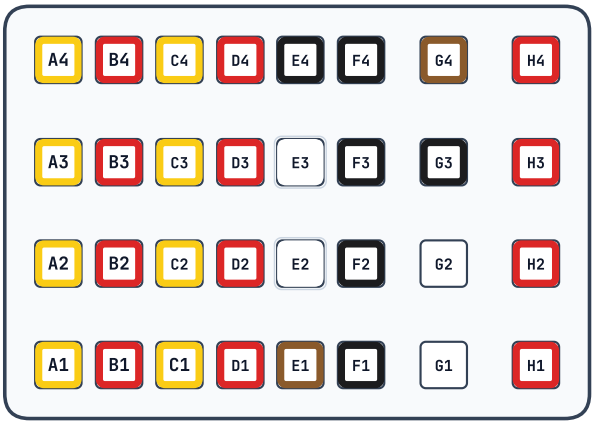
Connector C1 · 48-pin

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



Connector C2 · 32-pin

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



MaxxECU RACE connector C1 pinout (48-pin)

Mating connector: Molex 643203311

Pin	Function	Wire	MaxxECU note
C1-A1	GP OUT 5	green	
C1-A2	IGNITION CYL 1	blue	
C1-A3	IGNITION CYL 2	blue	
C1-A4	TACH/GP OUT 8	green	660ohm pullup
C1-B1	GP OUT 6	green	
C1-B2	IGNITION CYL 3	blue	
C1-B3	IGNITION CYL 4	blue	
C1-B4	GP OUT 1	green	
C1-C1	GP OUT 7	green	
C1-C2	IGNITION CYL 5	blue	
C1-C3	IGNITION CYL 6	blue	
C1-C4	GP OUT 2	green	
C1-D1	WBO2 HTR PIN4	-	
C1-D2	IGNITION CYL 7	blue	
C1-D3	IGNITION CYL 8	blue	
C1-D4	GP OUT 3	green	
C1-E1	CAN H	grey	
C1-E2	CAN L	pink	
C1-E3	SHIELD GND	black/white	
C1-E4	GP OUT 4	green	
C1-F1	COOLANT SENSOR	black	
C1-F2	AIR TEMP SENSOR	black	
C1-F3	WBO2 COM	yellow	
C1-F4	WBO2 VS/02 IN	brown	
C1-G1	5V SENSOR SUPPLY	red	(peak 0.5A, max 150mA)
C1-G2	THROTTLE SENSOR	black	
C1-G3	WBO2 IP	white	

Pin	Function	Wire	MaxxECU note
C1-G4	WBO2 RCAL	green	
C1-H1	SENSOR GND	brown	
C1-H2	VR GND	brown	
C1-H3	TRIGGER	white	
C1-H4	HOME/CAM	white	
C1-J1	ANALOG IN 1, TEMP	black	
C1-J2	ANALOG IN 2, TEMP	black	
C1-J3	ANALOG IN 3, 0-5V	black	
C1-J4	ANALOG IN 4, 0-5V	black	
C1-K1	INJECTOR CYL 1	grey	
C1-K2	INJECTOR CYL 2	grey	
C1-K3	DIGITAL IN 1	black	
C1-K4	DIGITAL IN 2	black	
C1-L1	INJECTOR CYL 8	grey	
C1-L2	INJECTOR CYL 7	grey	
C1-L3	INJECTOR CYL 6	grey	
C1-L4	ENGINE GROUND	-	
C1-M1	INJECTOR CYL 3	grey	
C1-M2	INJECTOR CYL 4	grey	
C1-M3	INJECTOR CYL 5	grey	
C1-M4	12V ECU	red	

MaxxECU RACE connector C2 pinout (32-pin)

Mating connector: Molex 0643193211

Pin	Function	Wire	MaxxECU note
C2-A1	EGT5+	yellow	
C2-A2	EGT6+	yellow	
C2-A3	EGT7+	yellow	
C2-A4	EGT8+	yellow	
C2-B1	EGT5-	red	
C2-B2	EGT6-	red	
C2-B3	EGT7-	red	
C2-B4	EGT8-	red	
C2-C1	EGT1+	yellow	
C2-C2	EGT2+	yellow	
C2-C3	EGT3+	yellow	
C2-C4	EGT4+	yellow	
C2-D1	EGT1-	red	
C2-D2	EGT2-	red	
C2-D3	EGT3-	red	
C2-D4	EGT4-	red	
C2-E1	KNOCK GND	brown	
C2-E2	KNOCK 1	white	
C2-E3	KNOCK 2	white	
C2-E4	ANALOG IN 6 (0-5V)	black	
C2-F1	ANALOG IN 7 (0-5V)	black	
C2-F2	ANALOG IN 8 (0-5V)	black	
C2-F3	DIGITAL/VR IN 4	black	
C2-F4	DIGITAL/VR IN 5	black	

Pin	Function	Wire	MaxxECU note
C2-G1	GP OUT 15 (12V)	-	
C2-G2	GP OUT 16 (12V)	-	
C2-G3	ANALOG IN 5 (0-5V)	black	
C2-G4	ENGINE GROUND 2	brown	
C2-H1	MOTOR 2+	red	
C2-H2	MOTOR 1-	red	
C2-H3	MOTOR 2-	red	
C2-H4	MOTOR 1+	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 RACE (REV9+) wiring diagram

Wire colours also checked in MaxxECU's diagrams of other ECUs with the same harness plug

MaxxECU PRO (REV10+) wiring diagram (same harness plug: wire colours)

Wire colours also checked in MaxxECU's diagrams of other ECUs with the same harness plug

MaxxECU PRO (REV9+) wiring diagram (same harness plug: wire colours)

Wire colours also checked in MaxxECU's diagrams of other ECUs with the same harness plug

MaxxECU SPORT (REV9+) wiring diagram (same harness plug: wire colours)

Wire colours also checked in MaxxECU's diagrams of other ECUs with the same harness plug

MaxxECU STREET (REV9+) wiring diagram (same harness plug: wire colours)

Wire colours also checked in MaxxECU's diagrams of other ECUs with the same harness plug

MaxxECU V1 (REV5+) wiring diagram (same harness plug: wire colours)

Wire colours also checked in MaxxECU's diagrams of other ECUs with the same harness plug

MaxxECU V1 (REV9+) wiring diagram (same harness plug: wire colours)

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)