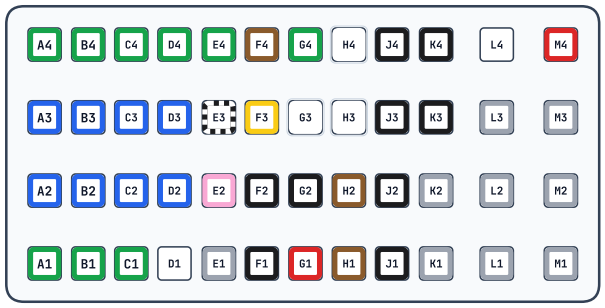
MaxxECU PRO pinout

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

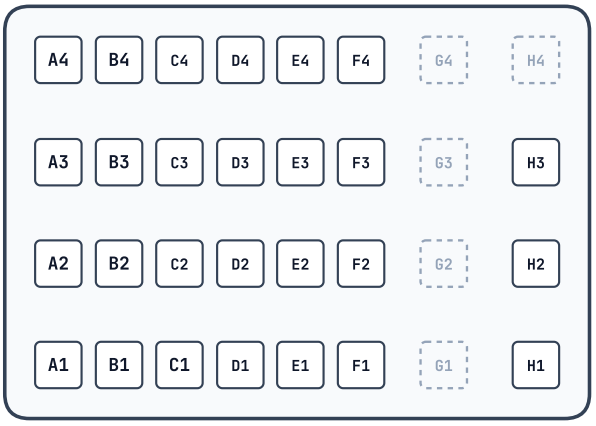
Connector C1 · 48-pin

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



Connector C3 · 48-pin

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



Connector C4 · 32-pin

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



MaxxECU PRO 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	

Pin	Function	Wire	MaxxECU note
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	
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 PRO connector C2 pinout (32-pin)

Mating connector: Molex 0643191218

Pin	Function	Wire	MaxxECU note
C2-A1	EGT1+	-	
C2-A2	EGT2+	-	
C2-A3	EGT3+	-	
C2-A4	EGT4+	-	
C2-B1	EGT1-	-	
C2-B2	EGT2-	-	
C2-B3	EGT3-	-	
C2-B4	EGT4-	-	

Pin	Function	Wire	MaxxECU note
C2-C1	EGT5+	-	
C2-C2	EGT6+	-	
C2-C3	EGT7+	-	
C2-C4	EGT8+	-	
C2-D1	EGT5-	-	
C2-D2	EGT6-	-	
C2-D3	EGT7-	-	
C2-D4	EGT8-	-	
C2-E1	EGT9+	-	
C2-E2	EGT10+	-	
C2-E3	EGT11+	-	
C2-E4	EGT12+	-	
C2-F1	EGT9-	-	
C2-F2	EGT10-	-	
C2-F3	EGT11-	-	
C2-F4	EGT12-	-	
C2-G1	Not used	-	
C2-G2	Not used	-	
C2-G3	Not used	-	
C2-G4	Not used	-	
C2-H1	ENGINE GROUND 3	-	
C2-H2	ENGINE GROUND 3	-	
C2-H3	ENGINE GROUND 3	-	
C2-H4	Not used	-	

MaxxECU PRO connector C3 pinout (48-pin)

Mating connector: Molex 0643203319

Pin	Function	Wire	MaxxECU note
C3-A1	DIGITAL/VR IN 4	black	
C3-A2	DIGITAL/VR IN 5	black	
C3-A3	DIGITAL IN 6	black	
C3-A4	DIGITAL IN 7	black	
C3-B1	WBO2 2 RCAL	green	
C3-B2	WBO2 2 IP	white	
C3-B3	WBO2 2 VS/02 IN	brown	
C3-B4	WBO2 2 COM	yellow	
C3-C1	SHIELD GND	black/white	
C3-C2	5V SENSOR SUPPLY 2	red	(peak 0.5A, max 150mA)
C3-C3	ANALOG IN 5 (0-5V)	black	
C3-C4	GP OUT 19 (12V)	red	
C3-D1	ANALOG IN 6 (0-5V)	black	
C3-D2	ANALOG IN 7 (0-5V)	black	
C3-D3	ANALOG IN 8 (0-5V)	black	
C3-D4	GP OUT 20 (12V)	red	
C3-E1	GP OUT 10 /WBO2 2 HTR	green	
C3-E2	ANALOG IN 9 (0-5V)	black	
C3-E3	ANALOG IN 10 (0-5V)	black	
C3-E4	GP OUT 21 (12V)	red	
C3-F1	INJECTOR CYL 15	grey	
C3-F2	ANALOG IN 11 (0-5V)	black	

Pin	Function	Wire	MaxxECU note
C3-F3	ANALOG IN 12 (0-5V)	black	
C3-F4	GP OUT 22 (12V)	red	
C3-G1	INJECTOR CYL 14	grey	
C3-G2	IGNITION CYL 11	blue	
C3-G3	IGNITION CYL 9	blue	
C3-G4	GP OUT 15 (12V)	red	
C3-H1	INJECTOR CYL 13	grey	
C3-H2	IGNITION CYL 12	blue	
C3-H3	IGNITION CYL 10	blue	
C3-H4	GP OUT 16 (12V)	red	
C3-J1	INJECTOR CYL 16	grey	
C3-J2	SENSOR GND 2	brown	
C3-J3	SENSOR GND 2	brown	
C3-J4	GP OUT 17 (12V)	red	
C3-K1	INJECTOR CYL 10	grey	
C3-K2	INJECTOR CYL 9	grey	
C3-K3	KEY IN 12V	black	
C3-K4	GP OUT 18 (12V)	red	
C3-L1	INJECTOR CYL 11	grey	
C3-L2	GP OUT 12/MOTOR 1 +	red	
C3-L3	GP OUT 11/MOTOR 1 -	red	
C3-L4	ENGINE GROUND 2	-	
C3-M1	INJECTOR CYL 12	grey	
C3-M2	GP OUT 13/MOTOR 2 +	red	
C3-M3	GP OUT 14/MOTOR 2 -	red	
C3-M4	12V ECU 2	red	

MaxxECU PRO connector C4 pinout (32-pin)

Mating connector: Molex 0643193211

Pin	Function	Wire	MaxxECU note
C4-A1	CAN 2 H	grey	
C4-A2	CAN 2 L	pink	
C4-A3	0-5V OUT 1	blue	
C4-A4	0-5V OUT 2	blue	
C4-B1	ANALOG IN 18 (0-5V)	black	
C4-B2	ANALOG IN 17 (0-5V)	black	
C4-B3	ANALOG IN 16 (0-5V)	black	
C4-B4	ANALOG IN 15 (0-5V)	black	
C4-C1	ANALOG IN 14 (0-5V)	black	
C4-C2	ANALOG IN 13 (0-5V)	black	
C4-C3	ANALOG IN 19 (TEMP)	black	
C4-C4	ANALOG IN 20 (TEMP)	black	
C4-D1	ANALOG IN 21 (TEMP)	black	
C4-D2	ANALOG IN 22 (TEMP)	black	
C4-D3	USER DIN 8 SWITCH	black	
C4-D4	USER DIN 9 SWITCH	black	
C4-E1	USER DIN 10 SWITCH	black	
C4-E2	USER DIN 11 SWITCH	black	
C4-E3	5V SENSOR SUPPLY 3	red	(peak 0.5A, max 150mA)

Pin	Function	Wire	MaxxECU note
C4-E4	5-10V SENSOR SUPPLY	-	
C4-F1	GPO 23-30 FLYBACK	green	
C4-F2	KNOCK 1	white	Only available on REV10+ units
C4-F3	KNOCK 2	white	REV10+ units = KNOCK 2, earlier rev = Sensor GND 3
C4-F4	SENSOR GND 3/KNOCK GND	brown	REV10+ units = KNOCK GND, earlier rev = Sensor GND 3
C4-G1	GP OUT 23	green	
C4-G2	GP OUT 24	green	
C4-G3	GP OUT 25	green	
C4-G4	GP OUT 26	green	
C4-H1	GP OUT 27	green	
C4-H2	GP OUT 28	green	
C4-H3	GP OUT 29	green	
C4-H4	GP OUT 30	green	

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 PRO (REV10+) wiring diagram

MaxxECU PRO (REV9+) wiring diagram

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

MaxxECU RACE (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)