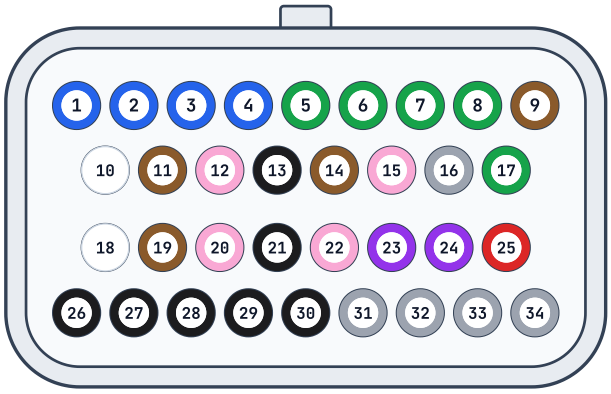
MaxxECU GEN2 RACE pinout

ecurecovery.com/pinouts/maxxecu/gen2-race · Every pin checked against 2 MaxxECU documents · data checked 2026-11-01

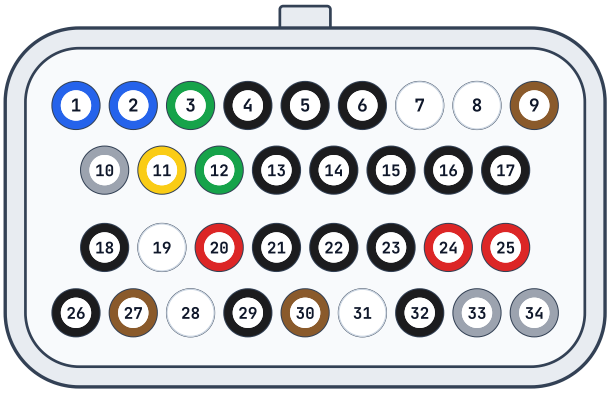
Connector MX1 · 34-pin

LOOKING INTO THE PLUG FROM THE WIRE SIDE, AS MAXXECU DRAWS IT (PIN 1 TOP LEFT)



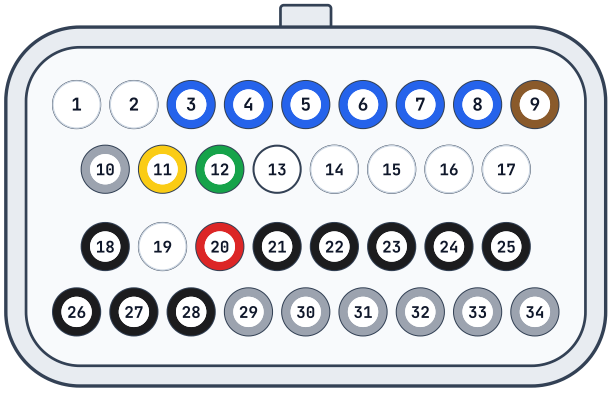
Connector MX2 · 34-pin

LOOKING INTO THE PLUG FROM THE WIRE SIDE, AS MAXXECU DRAWS IT (PIN 1 TOP LEFT)



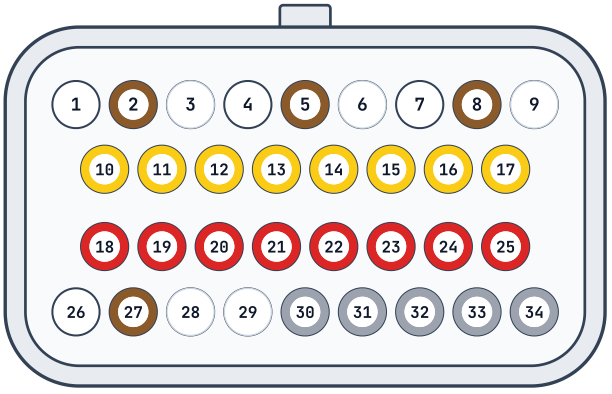
Connector MX3 · 34-pin

LOOKING INTO THE PLUG FROM THE WIRE SIDE, AS MAXXECU DRAWS IT (PIN 1 TOP LEFT)



Connector MX4 · 34-pin

LOOKING INTO THE PLUG FROM THE WIRE SIDE, AS MAXXECU DRAWS IT (PIN 1 TOP LEFT)



MaxxECU GEN2 RACE connector MX1 pinout (34-pin)

Mating connector: Superseal 1.0, key MX1

Pin	Function	Wire	MaxxECU note
MX1-1	IGNITION 1	blue	
MX1-2	IGNITION 2	blue	
MX1-3	IGNITION 3	blue	
MX1-4	IGNITION 4	blue	
MX1-5	GP OUT 1 (GND)	green	
MX1-6	GP OUT 2 (GND)	green	
MX1-7	GP OUT 3 (GND)	green	
MX1-8	GP OUT 4 (GND)	green	
MX1-9	ENGINE GND	brown	To engine cylinder head.
MX1-10	DIGITAL/VR 1 (PULSE) SIGNAL +	white	
MX1-11	DIGITAL/VR 1 (PULSE) SIGNAL -	brown	
MX1-12	DIGITAL/VR 1 (PULSE) POWER SUPPLY	pink	
MX1-13	DIGITAL/VR 1 (PULSE) SHIELD	black	
MX1-14	SENSOR GND	brown	Must NOT be connected to engine GND

Pin	Function	Wire	MaxxECU note
MX1-15	CAN L	pink	
MX1-16	CAN H	grey	
MX1-17	GP OUT 5 / TACHO (GND)	green	
MX1-18	DIGITAL/VR 2 (PULSE) SIGNAL +	white	
MX1-19	DIGITAL/VR 2 (PULSE) SIGNAL -	brown	
MX1-20	DIGITAL/VR 2 (PULSE) POWER SUPPLY	pink	
MX1-21	DIGITAL/VR 2 (PULSE) SHIELD	black	
MX1-22	5V POWER SUPPLY	pink	
MX1-23	DIGITAL/VR 3 (PULSE) SIGNAL +	purple	
MX1-24	DIGITAL/VR 4 (PULSE) SIGNAL +	purple	
MX1-25	12V ECU SUPPLY 1	red	Main ECU supply.
MX1-26	AIN 1	black	
MX1-27	AIN 2	black	
MX1-28	AIN 3	black	
MX1-29	AIN 4	black	
MX1-30	AIN 5	black	
MX1-31	INJECTOR 1	grey	
MX1-32	INJECTOR 2	grey	
MX1-33	INJECTOR 3	grey	
MX1-34	INJECTOR 4	grey	

MaxxECU GEN2 RACE connector MX2 pinout (34-pin)

Mating connector: Superseal 1.0, key MX2

Pin	Function	Wire	MaxxECU note
MX2-1	IGNITION 5	blue	
MX2-2	IGNITION 6	blue	
MX2-3	GP OUT 6 (GND)	green	
MX2-4	AIN 6	black	
MX2-5	AIN 7	black	
MX2-6	AIN 8	black	
MX2-7	GP OUT 13 (H-BRIDGE 1)	white	
MX2-8	GP OUT 14 (H-BRIDGE 1)	white	
MX2-9	ENGINE GND	brown	To engine cylinder head.
MX2-10	LAMBDA 1 VS	grey	
MX2-11	LAMBDA 1 COM/VREF	yellow	
MX2-12	LAMBDA 1 HEATER- / GP OUT 7 (GND)	green	
MX2-13	AIN 9	black	
MX2-14	AIN 10	black	
MX2-15	AIN 11	black	
MX2-16	AIN 12	black	
MX2-17	AIN 13	black	
MX2-18	LAMBDA 1 RCAL	black	
MX2-19	LAMBDA 1 IP	white	
MX2-20	LAMBDA 1 HEATER+ (12V)	red	
MX2-21	LAMBDA 1 SHIELD	black	
MX2-22	AIN 14	black	
MX2-23	AIN 15	black	
MX2-24	12V ECU SUPPLY 3	red	Used for ignition key or to power the internal RTC
MX2-25	12V ECU SUPPLY 2	red	Must be wired if 12V driving output exceeds 10A

Pin	Function	Wire	MaxxECU note
MX2-26	KNOCK 1 SHIELD	black	
MX2-27	KNOCK 1-	brown	
MX2-28	KNOCK 1+	white	
MX2-29	KNOCK 2 SHIELD	black	
MX2-30	KNOCK 2-	brown	
MX2-31	KNOCK 2+	white	
MX2-32	AIN 16	black	
MX2-33	INJECTOR 5	grey	
MX2-34	INJECTOR 6	grey	

MaxxECU GEN2 RACE connector MX3 pinout (34-pin)

Mating connector: Superseal 1.0, key MX3

Pin	Function	Wire	MaxxECU note
MX3-1	GP OUT 15 (H-BRIDGE 2)	white	
MX3-2	GP OUT 16 (H-BRIDGE 2)	white	
MX3-3	IGNITION 7	blue	
MX3-4	IGNITION 8	blue	
MX3-5	IGNITION 9	blue	
MX3-6	IGNITION 10	blue	
MX3-7	IGNITION 11	blue	
MX3-8	IGNITION 12	blue	
MX3-9	ENGINE GND	brown	To engine cylinder head.
MX3-10	LAMBDA 2 VS	grey	
MX3-11	LAMBDA 2 VREF	yellow	
MX3-12	LAMBDA 2 HEATER- / GP OUT 8 (GND)	green	
MX3-13	LAMBDA 2 SHIELD	-	
MX3-14	GP OUT 9 (12V)	white	
MX3-15	GP OUT 10 (12V)	white	
MX3-16	GP OUT 11 (12V)	white	
MX3-17	GP OUT 12 (12V)	white	
MX3-18	LAMBDA RCAL	black	
MX3-19	LAMBDA 2 IP	white	
MX3-20	LAMBDA 2 HEATER+ (12V)	red	
MX3-21	AIN 17	black	
MX3-22	AIN 18	black	
MX3-23	AIN 19	black	
MX3-24	AIN 20	black	
MX3-25	AIN 21	black	
MX3-26	AIN 22	black	
MX3-27	AIN 23	black	
MX3-28	AIN 24	black	
MX3-29	INJECTOR 7	grey	
MX3-30	INJECTOR 8	grey	
MX3-31	INJECTOR 9	grey	
MX3-32	INJECTOR 10	grey	
MX3-33	INJECTOR 11	grey	
MX3-34	INJECTOR 12	grey	

MaxxECU GEN2 RACE connector MX4 pinout (34-pin)

Mating connector: Superseal 1.0, key MX4

Pin	Function	Wire	MaxxECU note
MX4-1	DIGITAL/VR 5 (PULSE) SHIELD	-	
MX4-2	DIGITAL/VR 5 (PULSE) SIGNAL -	brown	
MX4-3	DIGITAL/VR 5 (PULSE) SIGNAL +	white	
MX4-4	DIGITAL/VR 6 (PULSE) SHIELD	-	
MX4-5	DIGITAL/VR 6 (PULSE) SIGNAL -	brown	
MX4-6	DIGITAL/VR 6 (PULSE) SIGNAL +	white	
MX4-7	DIGITAL/VR 7 (PULSE) SHIELD	-	
MX4-8	DIGITAL/VR 7 (PULSE) SIGNAL -	brown	
MX4-9	DIGITAL/VR 7 (PULSE) SIGNAL +	white	
MX4-10	EGT 1 +	yellow	(yellow)
MX4-11	EGT 2 +	yellow	(yellow)
MX4-12	EGT 3 +	yellow	(yellow)
MX4-13	EGT 4 +	yellow	(yellow)
MX4-14	EGT 5 +	yellow	(yellow)
MX4-15	EGT 6 +	yellow	(yellow)
MX4-16	EGT 7 +	yellow	(yellow)
MX4-17	EGT 8 +	yellow	(yellow)
MX4-18	EGT 1 -	red	(red)
MX4-19	EGT 2 -	red	(red)
MX4-20	EGT 3 -	red	(red)
MX4-21	EGT 4 -	red	(red)
MX4-22	EGT 5 -	red	(red)
MX4-23	EGT 6 -	red	(red)
MX4-24	EGT 7-	red	(red)
MX4-25	EGT 8 -	red	(red)
MX4-26	DIGITAL/VR 8 (PULSE) SHIELD	-	
MX4-27	DIGITAL/VR 8 (PULSE) SIGNAL -	brown	
MX4-28	DIGITAL/VR 8 (PULSE) SIGNAL +	white	
MX4-29	CAN 2 L	white	
MX4-30	CAN 2 H	grey	
MX4-31	INJECTOR 13	grey	
MX4-32	INJECTOR 14	grey	
MX4-33	INJECTOR 15	grey	
MX4-34	INJECTOR 16	grey	

Where this comes from

MaxxECU's GEN2 pinout table (online manual)

MaxxECU GEN2 Pinout (maxxecu.com online manual)

MaxxECU GEN2 RACE quick guide and wiring (REV2)

MaxxECU GEN2 RACE quickguide and wiring (REV2)

MaxxECU GEN2 RACE quick guide and wiring (first edition)

MaxxECU GEN2 RACE quickguide and wiring (first edition)