

AiM Infotech

Electromotive TEC3 and TEC3r

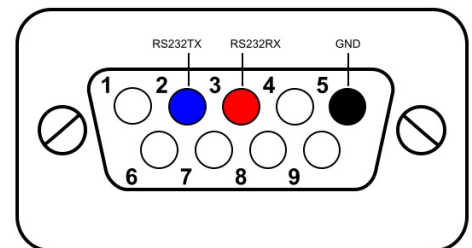
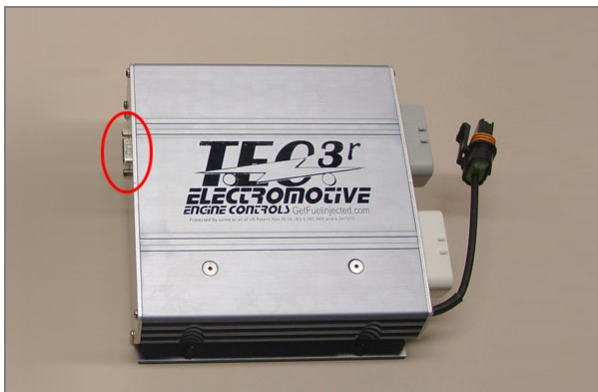
Release 1.02



This tutorial explains how to connect Electromotive TEC3 and TEC3r ECU to AIM devices.

1 Serial Communication setup

Electromotive TEC3 and TEC3r feature a serial communication bus on its DB9 rear connector highlighted here below on the left. On the right is connector pinout



Here follows the connection table.

DB9 connector pin	Pin function	AIM cable label
2	RS232TX	RS232RX
3	RS232RX	RS232TZ
5	GND	GND

2 AIM device configuration

Before connecting the ECU to AiM device, set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "ELECTROMOTIVE"
- ECU Model "TEC3"

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Available channels

Channels received by AIM devices connected to Electromotive "TEC3" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	TEC3_RPM	RPM
ECU_2	TEC3_ADVANCE	Spark advance
ECU_3	TEC3_MAP	Manifold air pressure
ECU_4	TEC3_ECT	Engine coolant temperature
ECU_5	TEC3_TFPW	Total fuel injector pulse width
ECU_6	TEC3_KNOCK	Knock sensor
ECU_7	TEC3_MAT	Manifold air temperature
ECU_8	TEC3_TPS	Throttle position sensor
ECU_9	TEC3_BATV	Battery supply
ECU_10	TEC3_ENGINE_LIGHT	Shift lights
ECU_11	TEC3_GPO1	General purpose output 01
ECU_12	TEC3_UAP	User adjustable pulse width
ECU_13	TEC3_ACTUAL_AFR	Actual air/fuel ratio
ECU_14	TEC3_EGO	Exhausts gas oxygen
ECU_15	TEC3_DESIRED_AFR	Desired air/fuel ratio
ECU_16	TEC3_EGO_VOLT	Exhaust gas oxygen sensor voltage
ECU_17	TEC3_TPS_BLEND_OFFSET	TPS and MAP sensor blended offset
ECU_18	TEC3_STAGED_PW	Staged power
ECU_19	TEC3_PRIMARY_PW	Primary power
ECU_20	TEC3_AD_INPUT1	Analog device input 1
ECU_21	TEC3_AD_INPUT2	Analog device input 2
ECU_22	TEC3_AD_INPUT3	Analog device input 3
ECU_23	TEC3_AD_INPUT4	Analog device input 4
ECU_24	TEC3_GPO2	General purpose output 02
ECU_25	TEC3_GPO3	General purpose output 03



ECU_26	TEC3_GPO4	General purpose output 04
ECU_27	TEC3_SECONDARY_ADV	Secondary Advance
ECU_28	TEC3_KNK_RETARD	Knock retard