

AiM Infotech

Mercury
849849 AXX ECU

Release 1.03



ECU



This tutorial explains how to connect Mercury 849849_AXX ECU AiM devices.

1 Serial communication setup

Mercury 849849 AXX ECU is equipped with a serial communication protocol used to communicate parameters to an external device. To connect AiM device to this ECU you need to buy a proper cable which includes an interface board.

This cable part number is: **X50EN849849**. Here below it is shown.



2 Serial connection

Mercury 849849 AXX ECU is equipped with a 4 pins AMP female connector that has to be connected to AiM interface male one shown here below.



Mercury 849849 AXX interface cable has four not cabled wires you can connect to AiM devices.

Please refer to your device pinout to know the pins to be used. Here below you find wiring diagram and connection scheme



Cable function

RS232RX

RS232TX

+12V

GND

AiM cable colour

White

Bleu

Red

Black

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AiM Logger configuration

Once the ECU connected to the logger set up the logger as follows:

Run Race Studio 2 software and follow this path:

- Device Configuration -> Select the device you are using;
- select the configuration or press "New" to create a new one;
- select ECU manufacturer "Mercury" and ECU Model "849849_Axx" or "849849_Axx_New" according to your ECU version
- transmit the configuration to the device pressing "Transmit".



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Available channels

Channels received by AiM devices connected to Mercury 849849_AXX ECU are.

ID	CHANNEL NAME	FUNCTION
ECU_1	MER_RPM	RPM
ECU_2	MER_TAIR	Intake air temperature
ECU_3	MER_TENG	Engine temperature
ECU_4	MER_MAP	Manifold air pressure
ECU_5	MER_INJT	Injection time
ECU_6	MER_ECU_TRIM	ECU Trim
ECU_7	MER_FUEL_GRP1	Injection volume for injectors group 1
ECU_8	MER_FUEL_GRP2	Injection volume for injectors group 2
ECU_9	MER_FUEL_GRP3	Injection volume for injectors group 3
ECU_10	MER_FUEL_A	Number after air temperature compensation
ECU_11	MER_FUEL_B	Number after engine compensation
ECU_12	MER_FUEL_C	Number after dynamic acceleration compensation
ECU_13	MER_FUEL_D	Number after cold piston compensation
ECU_14	MER_FUEL_T	Fuel temperature
ECU_15	MER_ECU_TEMP	ECU Temperature
ECU_16	MER_ONTIMECONS	Real time consumption
ECU_17	MER_ECU_BATT	Battery supply