AiM Infotech

Mercury
849849 AXX +FCR12 ECU

Release 1.05

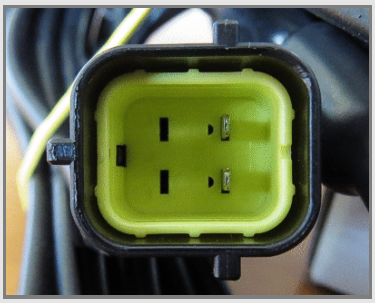
This tutorial explains how to connect and 849849 ECU to AiM devices. Supported models are:

- Mercury 849849_AXX
- Mercury 849849_AXX_New
- Mercury FCR12 with firmware version FCR12

1 Wiring connection

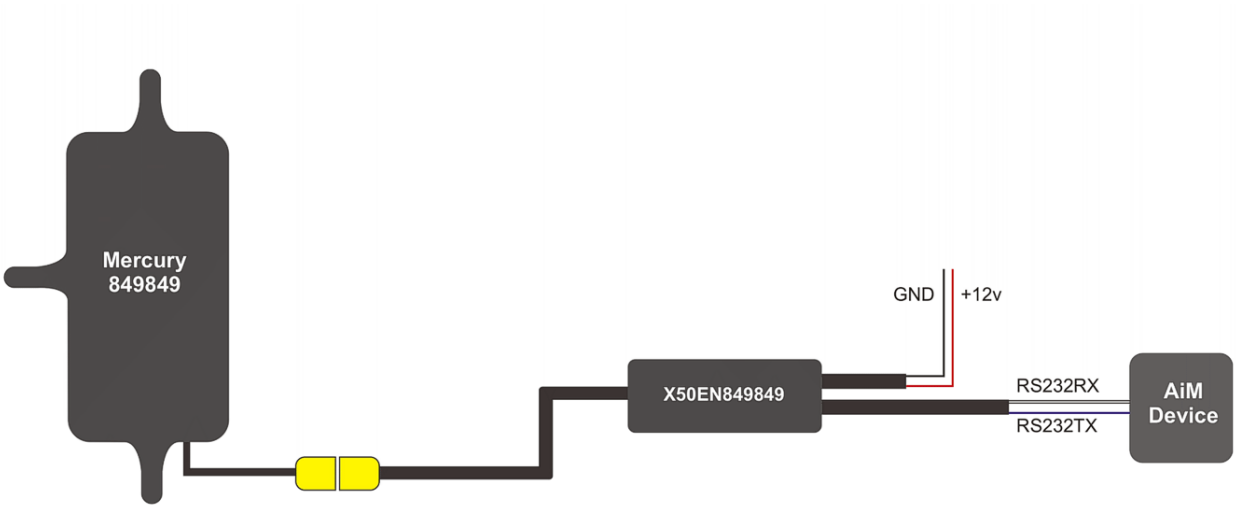
Mercury 849849 ECUs feature a serial communication protocol. To connect AiM device to these ECU a dedicated AiM interface cable is needed. This cable part number is: **X50EN849849**. Here below it is shown.

Mercury 849849 ECUs are 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	AiM cable colour
RS232RX	White
RS232TX	Bleu
+12V	Red
GND	Black

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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 “Mercury”
- ECU Model according to your ECU version or to its firmware version:
    - “849849_Axx”
    - “849849_Axx_New”
    - "FCR12"

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Available channels

Channels received by AiM devices connected to "Mercury" "849849_Axx", "849849_Axx_New" or "FCR12" protocol are the same and here below they are listed:

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