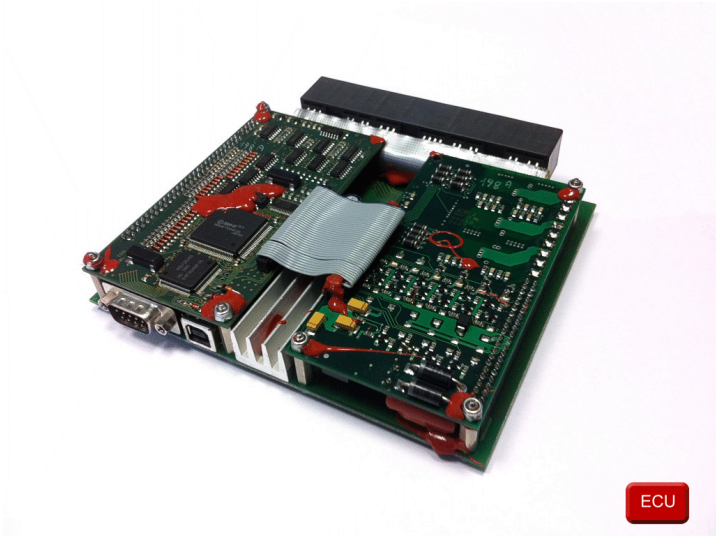
AiM Infotech

Walbro MINJ600 ECU

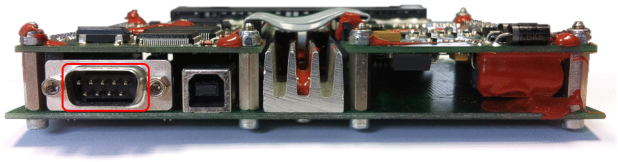
Release 1.00

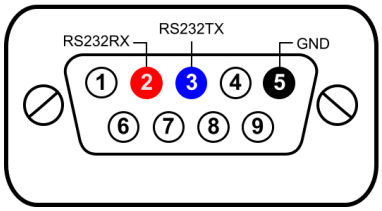


This tutorial explains how to connect Walbro MINJ600 to AiM devices.

1 Wiring connection

MINJ600 ECU communicates using the serial protocol. The connection with AiM devices is made using the DB9 connector on the ECU wiring. The image on the left highlights it while on the right you see its pinout.





Here below is the connection table.

DB9 connector pin	Pin function	AiM cable
2	RS232RX	RS232TX
3	RS232TX	RS232RX
5	GND	GND

2
AiM Logger configuration

Once the ECU connected to the logger, this last one is to be configured as connected to that ECU.

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 “Walbro” and ECU Model “MINJ600”;
- transmit the configuration to the device pressing “Transmit”.

3
Available channels

Channels received by AiM devices connected to Walbro MINJ600 protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_SPEED	Vehicle speed
ECU_3	ECU_TPS	Throttle position sensor
ECU_4	ECU_DELTA_TPS	Throttle position sensor delta
ECU_5	ECU_MAP	Manifold air pressure
ECU_6	ECU_BAP	Barometric air pressure
ECU_7	ECU_TAIR	Intake air temperature
ECU_8	ECU_TENG	Engine temperature
ECU_9	ECU_LAMBDA_1	Lambda value 1
ECU_10	ECU_LAMBDA_2	Lambda value 2
ECU_11	ECU_INJ1	Injection time 1
ECU_12	ECU_INJ2	Injection time 2

ECU_13	ECU_INJ3	Injection time 3
ECU_14	ECU_INJ4	Injection time 4
ECU_15	ECU_INJ5	Injection time 5
ECU_16	ECU_INJ6	Injection time 6
ECU_17	ECU_SPARK1	Spark advance 1
ECU_18	ECU_SPARK2	Spark advance 2
ECU_19	ECU_SPARK3	Spark advance 3
ECU_20	ECU_SPARK4	Spark advance 4
ECU_21	ECU_SPARK5	Spark advance 5
ECU_22	ECU_SPARK6	Spark advance 6
ECU_23	ECU_PHASE	Phase
ECU_24	ECU_GEAR	Engaged gear
ECU_25	ECU_CAM_REF	Camshaft reference
ECU_26	ECU_CAM_POS_R	Right camshaft position
ECU_27	ECU_CAM_POS_L	Left camshaft position
ECU_28	ECU_DUTY_BOOST	Duty boost
ECU_29	ECU_IDLE_POSITION	Idle valve position
ECU_30	ECU_ACTIVE_BLOCK	Active block
ECU_31	ECU_V_BATT	Battery supply
ECU_32	ECU_AUX_P1	Auxiliary pressure sensor 1
ECU_33	ECU_AUX_P2	Auxiliary pressure sensor 2
ECU_34	ECU_CALC_MAP	Calculated manifold air pressure
ECU_35	ECU_ERCOUNTER	Error counter