

AiM Infotech

EFI Europe Ligier JS53

Release 1.00



ECU

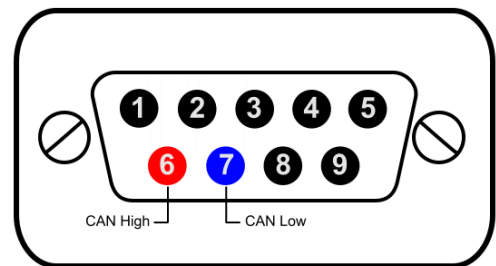


This tutorial explains how to connect AiM devices to Ligier JS53 car. This vehicle is equipped with a dedicated EFI Europe ECU.

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Wiring connection

EFI Europe ECU for Ligier JS53 features a data transmission bus based on CAN on the DB9 female connector shown here below on the left. On the right the connector pinout is shown.



Here below you see the connector pinout and the connection table.

DB9 pin	Pin function	AiM cable
6	CAN high	CAN+
7	CAN Low	CAN-

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AiM Logger configuration

Before connecting AiM device to the ECU set it up as follows:

Run Race Studio 2 software and select:

- Device Configuration → select the device you are using;
- select the configuration or press “New” to create a new one;
- select ECU manufacturer “EFI_Europe” and ECU Model “Ligier_JS53”;
- transmit the configuration to the device pressing “Transmit”.

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Available channels

Channels received by AiM loggers connected to "EFI Europe" "LIGIER_JS53" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_THROTTLE	Throttle
ECU_3	ECU_BAROM_PR	Barometric pressure
ECU_4	ECU_MAN_AIR_PRE	Manifold air pressure
ECU_5	ECU_MAP_NUMB	Selected map
ECU_6	ECU_CRANK_CNT	Crank counter
ECU_7	ECU_SPEED_RL	Rear left wheel speed
ECU_8	ECU_SMOT_SYNC	Smot Sync
ECU_9	ECU_CAM_COUNT	Can counter
ECU_10	ECU_OIL_PRES	Oil pressure
ECU_11	ECU_FUEL_PRES	Fuel pressure
ECU_12	ECU_LAMBDA1	Lambda value 1
ECU_13	ECU_PIT_LANE_AC	Pit lane active
ECU_14	ECU_BRK_FRONT	Front brake sensor



ECU_15	ECU_BRK_REAR	Rear brake sensor
ECU_16	ECU_FLAG_SMOT	Smot status
ECU_17	ECU_OIL_TEMP	Oil temperature
ECU_18	ECU_ENGINE_TEMP	Engine temperature
ECU_19	ECU_AIR_TEMP	Intake air temperature
ECU_20	ECU_BATTERY	Battery supply
ECU_21	ECU_FUEL_USED	Used fuel
ECU_22	ECU_FUEL_LEFT	Left fuel
ECU_23	ECU_ON_min	ECU working time
ECU_24	ECU_GEAR	Engaged gear
ECU_25	ECU_GEAR_POT	Gear potentiometer
ECU_26	ECU_MANUAL_LIM	Manual limiter
ECU_27	ECU_LAP_TIME	Lap time
ECU_28	ECU_LAP_NUM	Lap number
ECU_29	ECU_M_IGN_LIM	Ignition limiter
ECU_30	ECU_M_INJ_LIM	Injection limiter
ECU_31	ECU_SPK_ADV_B	Spark advance base
ECU_32	ECU_SPK_ADV	Spark advance
ECU_33	ECU_BATT_KEY	Battery key
ECU_34	ECU_ILIOS_O2	Lambda
ECU_35	ECU_LOG_MEM	Logger memory
ECU_36	ECU_VCT_TARGET	Variable cam timing
ECU_37	ECU_VCT_ERR_P	Variable error position
ECU_38	ECU_FUE_PUMP_ON	Fuel pump on
ECU_39	ECU_IDLE_DC_OUT	Idle DC output
ECU_40	ECU_CLC1	Closed loop control 1 (injection)
ECU_41	ECU_PSt	PS timer active
ECU_42	ECU_LINEAR1	Analogic linear input 1
ECU_43	ECU_LINEAR2	Analogic linear input 2
ECU_44	ECU_LINEAR3	Analogic linear input 3
ECU_45	ECU_LINEAR4	Analogic linear input 4
ECU_46	ECU_LINEAR5	Analogic linear input 5



ECU_47	ECU_LINEAR6	Analogic linear input 6
ECU_48	ECU_LINEAR7	Analogic linear input 7
ECU_49	ECU_LINEAR8	Analogic linear input 8
ECU_50	ECU_CLUCH_PR	Clutch pressure
ECU_51	ECU_SPARE_TMP	Spare temperature
ECU_52	ECU_CUT_OFF	Cut off