

AiM Infotech

Hydra EMS 2.7 ECU

Release 1.01



ECU

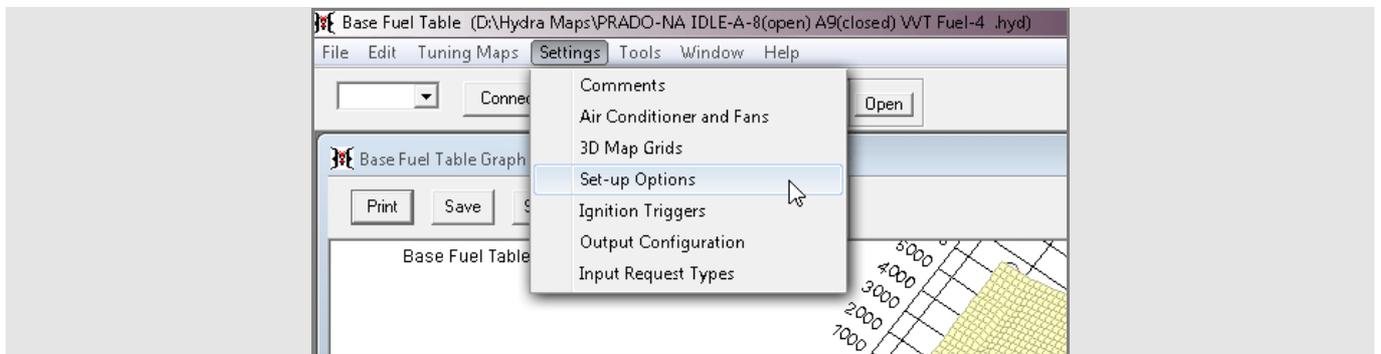


This tutorial explains how to connect Hydra EMS 2.7 ECU to AiM devices.

1 Software Setup

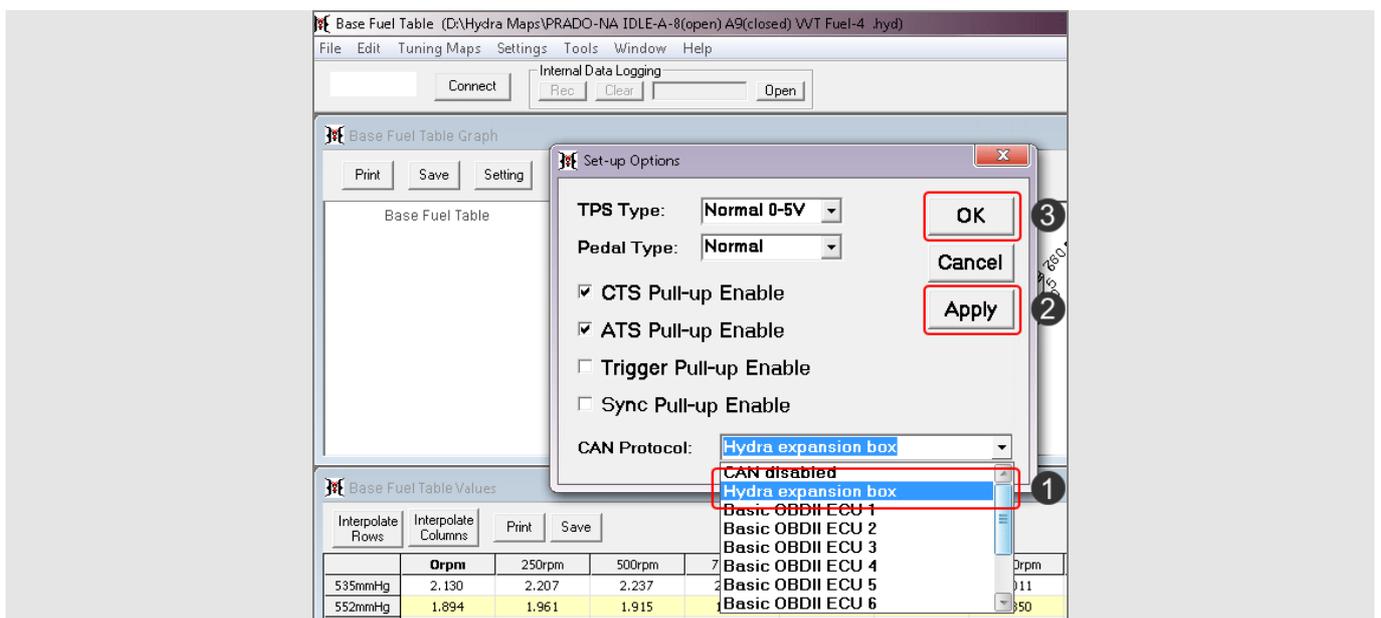
Hydra EMS 2.7 needs to be set up via Hydra "Base Fuel Table" software. Run it and follow this path.

- "Settings → "Set-up Options" as shown below.



"Set-up options" panel shows up.

- Activate "CAN Protocol" pop up menu and select "Hydra expansion box" (1)
- press "Apply" (2)
- press "OK" (3), save the file and reboot the ECU



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Available channels

Channels received by AiM devices connected to "Hydra" "CAN_V2.7 " protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	HY_RPM	RPM
ECU_2	HY_TPS	Throttle position sensor
ECU_3	HY_PPS	Pedal open percentage
ECU_4	HY_VEH_SPEED	Vehicle speed
ECU_5	HY_WATER_TEMP	Engine coolant temperature
ECU_6	HY_INTK_AIR_T	Intake air temperature
ECU_7	HY_OIL_TEMP	Oil temperature
ECU_8	HY_FUEL_TEMP	Fuel temperature
ECU_9	HY_MANIF_PR	Intake manifold pressure
ECU_10	HY_OIL_PR	Oil pressure
ECU_11	HY_FUEL_PR	Fuel rail pressure
ECU_12	HY_EXHAUST_PR	Exhaust manifold pressure
ECU_13	HY_GEAR	Engaged gear
ECU_14	HY_TRASM_TEMP	Transmission oil temperature
ECU_15	HY_TRASM_PR	Transmission oil pressure
ECU_16	HY_AIR_TEMP	Intake air temperature
ECU_17	HY_EXH_TEMP1	Exhaust left gas temperature
ECU_18	HY_EXH_TEMP2	Exhaust right gas temperature
ECU_19	HY_PRE_COOLER	Pre-intercooler air temperature
ECU_20	HY_POST_COOLER	Post-intercooler air temperature
ECU_21	HY_INJ_DUTY	Injector duty cycles
ECU_22	HY_INJ_PULSE	injection pulse width
ECU_23	HY_INJ_PHASE	Injection pulse phase
ECU_24	HY_ADVANCE	Base ignition advance
ECU_25	HY_PRI_LAMBDA	Primary wideband



ECU_26	HY_AIM_LAMBDA	Primary Lambda
ECU_27	HY_ENG_LOAD	Engine load
ECU_28	HY_BOOST	Engine load effective boost pressure
ECU_29	HY_PORT_TEMP	Port air temperature
ECU_30	HY_AMB_TEMP	Ambient air temperature
ECU_31	HY_KNOCK_RAMP	Knock ramp
ECU_32	HY_KNOCK_RET	Knock retard
ECU_33	HY_ETHANOLMIX	Ethanol mix