AiM Infotech

Benelli
TNT 1130, TNT 1130R, TNT 1130K ECU

Release 1.02

ECU

This tutorial explains how to connect Benelli bikes to AiM devices.

1 Bike models and years

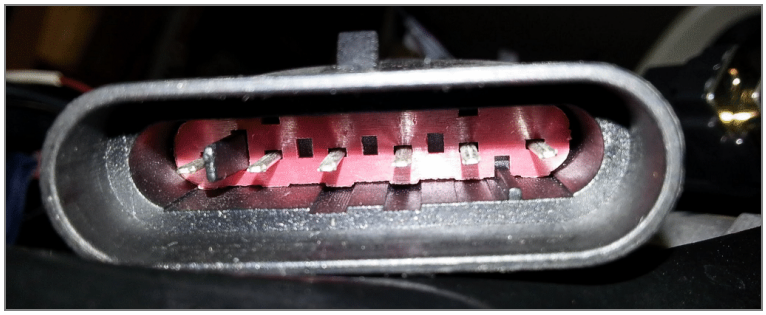
Supported models and years are:

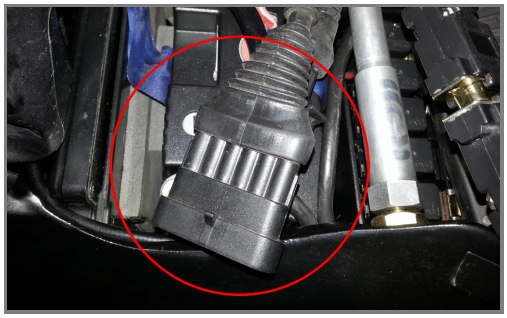
- Benelli TNT 1130 from 2004
- Benelli TNT 1130R from 2011
- Benelli TNT 1130K from 2006

Please note: Benelli TNT 899 is not supported.

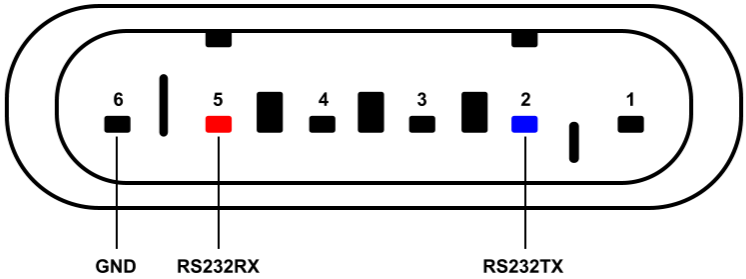
2 Serial communication

Benelli TNT1130, TNT 1130R and 1130K bikes feature a serial communication protocol on a Tyco Superseal 1.5 series 6 pins male connector placed under the bike seat and shown here below.





Below Tyco Superseal male connector pinout (front view) and the connection table.



Superseal pin	Pin function	AiM cable label
2	RS232TX	RS232RX
5	RS232RX	RS232TX
6	GND	GND

3 AiM device configuration

Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to be selected in the device configuration are:

- ECU manufacturer “Walbro”
- ECU Model “A1_BEN_04”

4
Available channels

Channels received by AiM devices connected to "Walbro" "A1BEN_04" are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	RPM
ECU_2	MAP	Manifold air pressure
ECU_3	TPS	Throttle position sensor
ECU_4	TAIR	Intake air temperature
ECU_5	TENGINE	Engine coolant temperature
ECU_6	VBATT	Battery supply
ECU_7	LAMBDA	Lambda value
ECU_8	IDLEPOSiTION	Idle position
ECU_9	DERIVTPS	Throttle position sensor derivative
ECU_10	SIDE_STAND	Side stand
ECU_11	NEUTRAL	Neutral sensor
ECU_12	MAPPA_ATTIVA	Active map
ECU_13	TIPO_OVER	Tip over sensor
ECU_14	SPEED	Speed

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.