

## 4.1 Harness connections A connector - FT450 / FT550 and LITE

Pin	Wire Color	Function	Information
1	Blue #1	Blue output #1	These outputs are usually used for injector control. When needed, they can be configured as auxiliary outputs <sup>1 2 3 5</sup> .
2	Blue #2	Blue output #2	
3	Blue #3	Blue output #3	
4	Blue #4	Blue output #4	
5	Blue #5	Blue output #5	
6	Blue #6	Blue output #6	
7	Black/white	Power ground input	<b>Directly</b> wired to the battery negative terminal with no seams. Do not tap any other grounds to this wire, it must run clean straight to the battery negative terminal.
8	Gray #1	Gray output #1	These outputs are usually used for ignition control. When needed, they can be set up as injector outputs or auxiliary outputs <sup>1 4</sup> .
9	Gray #2	Gray output #2	
10	Gray #3	Gray output #3	
11	Gray #4	Gray output #4	
12	Black	Battery negative input	Connected directly to the battery negative with no seams. <b>Do not connect this wire to the chassis, engine block or head.</b>
13	Red	12V input from relay	Connected to the pin 87 of the Main Relay
14	Green/Red	5V outputs for sensors	5V voltage output for TPS, electronic throttle and pedal sensors
15	Yellow/Blue	CAN A (-)	CAN A (-)
16	White/Red	CAN A (+)	CAN A (+)
17	Shielded Cable (white)	CAM sync signal input	Connected to the cam sync sensor (hall or magnetic)
18	Black Shielded Cable (White)	Magnetic RPM sensor reference	Connected to the negative wire of the magnetic sensor. When OEM ECU is reading the sensor in parallel, split this wire with OEM sensor negative - Do not connect when using hall effect sensor.
19	Black Shielded Cable (Red)	RPM signal input	Connected to the crank trigger sensor (hall or magnetic) or to the distributor. To VR sensors, use the shield wire the sensor shield. To Hall sensor, do not use the shield as negative
20	White #1	Input #1	Sensors input
21	White #2	Input #2	
22	White #3	Input #3	
23	White #4	Input #4	
24	White #5	Input #5	
25	White #6	Input #6	
26	White #7	Input #7	

1 - Outputs that can be used as "Tach output": Blue #3, blue #6, gray #4 (FT450)

2 - The blue output #6 can be used as the fifth ignition output (FT450)

3 - In order to avoid backfeeding when using the blue outputs or gray output #4 to power relays or actuators, make sure the switched 12V that powers them is the same that powers the ECU.

4 - When using as an injector output a Peak and Hold driver must be used

5 - The blue output #5 Can be used with PWM idle valve or WT Controller (FT450);