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Life Racing F88 ECU Pinout (V1.0-1.5 PCB)

1	POWER GROUND	45	LAMBDA V #2 ⁽³⁾⁽⁴⁾⁽⁵⁾
2	IGNITION #8 ⁽³⁾⁽⁴⁾⁽⁵⁾	46	INPUT #22 (TH) ⁽²⁾
3	IGNITION #7 ⁽³⁾⁽⁴⁾⁽⁵⁾	47	FUEL #16 ⁽³⁾⁽⁴⁾
4	IGNITION #6 ⁽³⁾⁽⁴⁾⁽⁵⁾	48	RS232 RX #1
5	IGNITION #5 ⁽³⁾⁽⁴⁾⁽⁵⁾	49	FUEL #8
6	FUEL #10 ⁽³⁾	50	FUEL #6
7	KNOCK #2 ⁽³⁾⁽⁴⁾⁽⁵⁾	51	FUEL #4
8	INPUT #16 (5V/TH/BI/FREQ) ⁽¹⁾	52	FUEL #3
9	INPUT #14 (5V/TH/BI/FREQ) ⁽¹⁾	53	FUEL #2
10	INPUT #12 (5V/TH/BI/FREQ)	54	FUEL #1
11	INPUT #10 (5V/TH/BI/FREQ)	55	POWER GROUND
12	THERMO - #2 ⁽³⁾⁽⁴⁾⁽⁵⁾	56	BATTERY SUPPLY
13	THERMO + #2 ⁽³⁾⁽⁴⁾⁽⁵⁾	57	BATTERY SUPPLY
14	INPUT #7 (5V/TH/BI/FREQ) ⁽¹⁾	58	BATTERY SUPPLY
15	INPUT #5 (5V/TH/BI/FREQ) ⁽¹⁾	59	BATTERY SUPPLY
16	INPUT #3 (5V/TH/BI/FREQ) ⁽¹⁾	60	BATTERY OUT
17	INPUT #1 (5V/TH/BI/FREQ) ⁽¹⁾	61	BATTERY OUT
18	LAMBDA V #1	62	10V OUT ⁽⁷⁾
19	INPUT #21 (TH) ⁽²⁾	63	5V OUT #2
20	FUEL #15 ⁽³⁾⁽⁴⁾	64	5V OUT #1
21	RS232 TX #1	65	KNOCK GROUND
22	FUEL #7	66	INPUT #20 (5V/KNOCK #04) ⁽⁶⁾
23	FUEL #5	67	SENSOR GROUND #2
24	IGNITION #4	68	INPUT #19 (5V/KNOCK #03) ⁽⁶⁾
25	IGNITION #3	69	SENSOR GROUND #1
26	IGNITION #2	70	THERMO + #1 ⁽³⁾⁽⁴⁾⁽⁵⁾
27	IGNITION #1	71	INPUT #18 (5V) ⁽⁶⁾
28	POWER GROUND	72	SENSOR GROUND #2
29	POWER GROUND	73	INPUT #17 (5V) ⁽⁶⁾
30	FUEL #14 ⁽³⁾⁽⁴⁾	74	SENSOR GROUND #1
31	FUEL #13 ⁽³⁾⁽⁴⁾	75	LAMBDA I #2 ⁽³⁾⁽⁴⁾⁽⁵⁾
32	FUEL #12 ⁽³⁾	76	LAMBDA I #1
33	FUEL #11 ⁽³⁾	77	LAMBDA GROUND
34	FUEL #9 ⁽³⁾	78	COMMS GROUND
35	KNOCK #1 ⁽³⁾⁽⁴⁾⁽⁵⁾	79	CAN LO #2
36	INPUT #15 (5V/TH/BI/FREQ) ⁽¹⁾	80	CAN HI #2
37	INPUT #13 (5V/TH/BI/FREQ) ⁽¹⁾	81	CAN LO #1
38	INPUT #11 (5V/TH/BI/FREQ)	82	CAN HI #1
39	INPUT #9 (5V/TH/BI/FREQ)	83	INPUT #24 (TH) ⁽²⁾⁽³⁾
40	THERMO - #1 ⁽³⁾⁽⁴⁾⁽⁵⁾	84	INPUT #23 (TH) ⁽²⁾⁽³⁾
41	INPUT #8 (5V/TH/BI/FREQ) ⁽¹⁾	85	LAN RX +
42	INPUT #6 (5V/TH/BI/FREQ) ⁽¹⁾	86	LAN RX -
43	INPUT #4 (5V/TH/BI/FREQ) ⁽¹⁾	87	LAN TX +
44	INPUT #2 (5V/TH/BI/FREQ) ⁽¹⁾	88	LAN TX -

⁽¹⁾ 5V/TH only on F88R/RS/RX

⁽²⁾ Build-time choice of 5V rather than TH

⁽³⁾ Pin not connected on F88R

⁽⁴⁾ Pin not connected on F88RS

⁽⁵⁾ Pin not connected on F88RX

⁽⁶⁾ Build-time choice of sensor grounds rather than analogue inputs

⁽⁷⁾ Variable voltage supply pin - maximum current capability of 15mA