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Life Racing F88 ECU Pinout (V1.6+ PCB)

1	POWER GROUND	45	LAMBDA V #02 / CAN LO #03 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾
2	IGNITION #08 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	46	INPUT #22 (TH) ⁽²⁾
3	IGNITION #07 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	47	FUEL #16 ⁽³⁾⁽⁴⁾
4	IGNITION #06 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	48	RS232 RX
5	IGNITION #05 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	49	FUEL #08
6	FUEL #10 ⁽³⁾	50	FUEL #06
7	KNOCK #02	51	FUEL #04
8	INPUT #16 (5V/TH/BI/FREQ) ⁽¹⁾⁽²⁾	52	FUEL #03
9	INPUT #14 (5V/TH/BI/FREQ) ⁽¹⁾⁽²⁾	53	FUEL #02
10	INPUT #12 (5V/TH/BI/FREQ)	54	FUEL #01
11	INPUT #10 (5V/TH/BI/FREQ)	55	POWER GROUND
12	THERMO - #02 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	56	BATTERY SUPPLY
13	THERMO + #02 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	57	BATTERY SUPPLY
14	INPUT #07 (5V/TH/BI/FREQ) ⁽¹⁾	58	H-BRIDGE #01
15	INPUT #05 (5V/TH/BI/FREQ) ⁽¹⁾	59	H-BRIDGE #02
16	INPUT #03 (5V/TH/BI/FREQ) ⁽¹⁾	60	H-BRIDGE #03
17	INPUT #01 (5V/TH/BI/FREQ) ⁽¹⁾⁽⁸⁾	61	H-BRIDGE #04
18	LAMBDA V #01	62	10V OUT ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁷⁾
19	INPUT #21 (TH) ⁽²⁾	63	5V OUT #02
20	FUEL #15 ⁽³⁾⁽⁴⁾	64	5V OUT #01
21	RS232 TX	65	KNOCK GROUND
22	FUEL #07	66	INPUT #20 (5V/KNOCK #04) ⁽²⁾
23	FUEL #05	67	SENSOR GROUND #02
24	IGNITION #04	68	INPUT #19 (5V/KNOCK #03) ⁽²⁾
25	IGNITION #03	69	SENSOR GROUND #01
26	IGNITION #02	70	THERMO + #01 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾
27	IGNITION #01	71	INPUT #18 (5V) ⁽²⁾
28	POWER GROUND	72	SENSOR GROUND #02
29	POWER GROUND	73	INPUT #17 (5V) ⁽²⁾
30	FUEL #14 ⁽³⁾⁽⁴⁾	74	SENSOR GROUND #01
31	FUEL #13 ⁽³⁾⁽⁴⁾	75	LAMBDA I #02 / CAN HI #03 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾
32	FUEL #12 ⁽³⁾	76	LAMBDA I #01
33	FUEL #11 ⁽³⁾	77	LAMBDA GROUND
34	FUEL #09 ⁽³⁾	78	COMMS GROUND
35	KNOCK #01	79	CAN LO #02
36	INPUT #15 (5V/TH/BI/FREQ) ⁽¹⁾⁽²⁾	80	CAN HI #02
37	INPUT #13 (5V/TH/BI/FREQ) ⁽¹⁾⁽²⁾	81	CAN LO #01
38	INPUT #11 (5V/TH/BI/FREQ)	82	CAN HI #01
39	INPUT #09 (5V/TH/BI/FREQ)	83	INPUT #24 (TH) ⁽²⁾
40	THERMO - #01 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾	84	INPUT #23 (TH) ⁽²⁾
41	INPUT #08 (5V/TH/BI/FREQ) ⁽¹⁾	85	LAN RX +
42	INPUT #06 (5V/TH/BI/FREQ) ⁽¹⁾	86	LAN RX -
43	INPUT #04 (5V/TH/BI/FREQ) ⁽¹⁾	87	LAN TX +
44	INPUT #02 (5V/TH/BI/FREQ) ⁽¹⁾	88	LAN TX -

⁽¹⁾ 5V/TH only on F88/R/RS/RX and suffix L models

⁽²⁾ Pin not connected on suffix L models

⁽³⁾ Pin not connected on F88R/RL

⁽⁴⁾ Pin not connected on F88RS/RSL

⁽⁵⁾ Pin not connected on F88RX/RXL

⁽⁶⁾ Build-time choice of Lambda #02 or CAN #03

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

⁽⁸⁾ INPUT #01 TH utilises a 47K pull-up, all other TH inputs utilise a 3K pull-up