open source
hardware

openHCOP

icelord
inside

Schematics Diagram

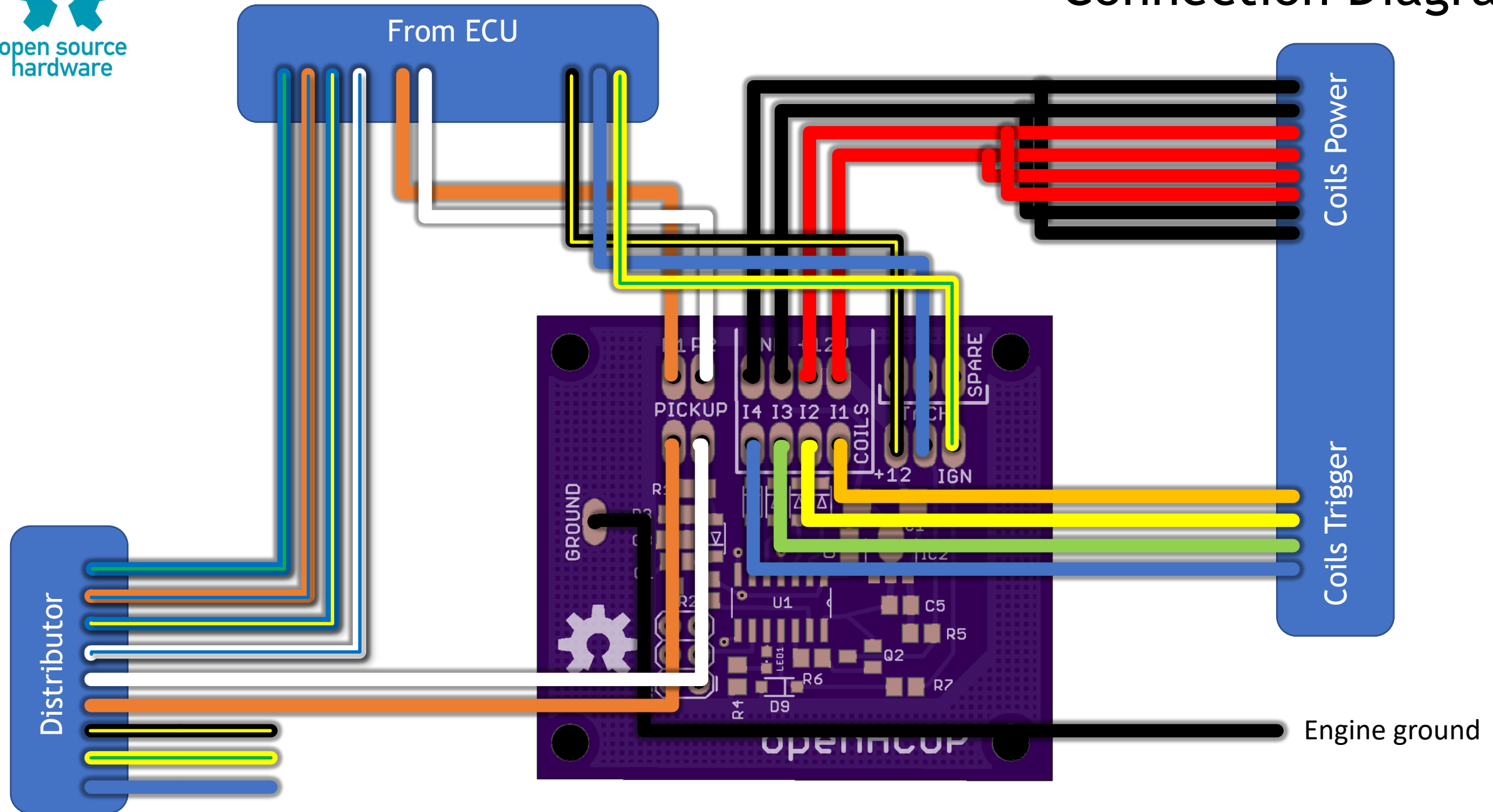Ab0VE-TECH
OPEN HONDA COIL ON PLUG CONTROLLER

https://github.com/icelord75/openHCOP
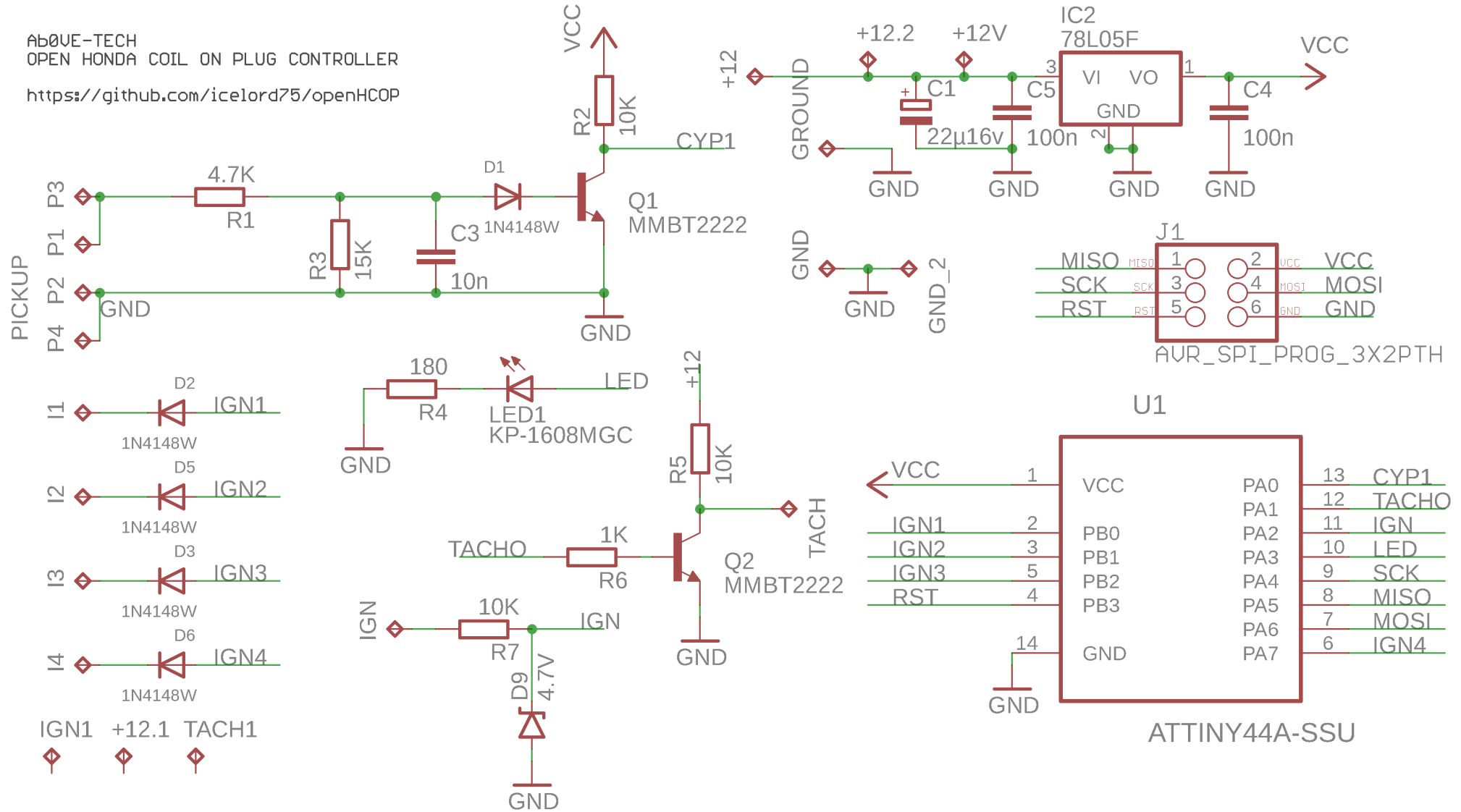
Bill of materials
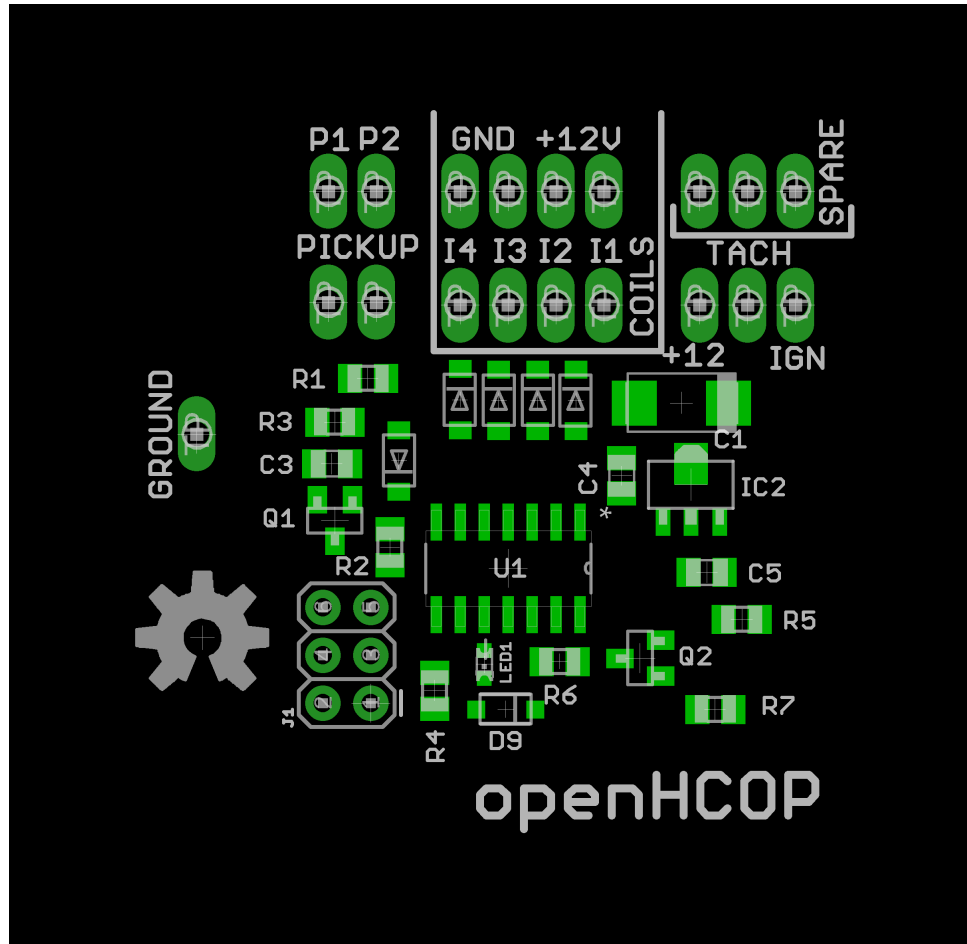
Part	Value	Package
C1	22μ16v	SMC_C
C3	10n	C0805
C4	100n	C0805
C5	100n	C0805
D1	1N4148W	SOD-123FL
D2	1N4148W	SOD-123FL
D3	1N4148W	SOD-123FL
D5	1N4148W	SOD-123FL
D6	1N4148W	SOD-123FL
D9	Zener diode 4.7V	SOD-123
IC2	78L05F	SOT89
LED1	KP-1608MGC	CHIPLED_0603
Q1	MMBT2222	SOT23-BEC
Q2	MMBT2222	SOT23-BEC
R1	4.7K	R0805
R2	10K	R0805
R3	15K	R0805
R4	180	R0805
R5	10K	R0805
R6	1K	R0805
R7	10K	R0805
U1	ATTINY44A-SSU	SOIC127P600X175-14N

Connection Diagram

open source hardware

From ECU

Coils Power

Coils Trigger

Distributor

PICKUP

I4 I3 I2 I1

COILS

+12 IGN

SPARE

GROUND

openACUP

Engine ground

icelord inside

Connection Scheme

open source hardware

J1.1

TO ECU

8	WHT	8		
7	WHT/BLU	7		
6	BLU/YEL	6		
5		5		
4	ORN	4		
3	ORN/BLU	3		
2	BLU/GRN	2		
1	YEL/GRN ✕	1		

J1.2

TO DISTRIBUTOR

J2.1

2	BLK/YEL ✕	2	
1	BLU ✕	1	

J2.2

X - CUT FOR DISABLE INTERNALS

TACH

+12

IGN

P1

P2

icelord inside