VCC

VBG = 1.25V

Common Load
Cell Colors: JP4   AVDD = VBG(R1+R2)/R1
Red   5   E+   AVDD
Black   4   E-
White   3   A-   A-   L1
Green or Blue 2 A+   A+   3.3uH
Shield Yellow 1

C3   C7
0.1uF   10uF

GND   GND   GND

Q2
MMBT4403

R5
20k

R2
8.2K

C2   0.1uF

GND

R3
100

C1
0.1uF

R4
100

VDD   VCC   VCC
C4   C5   C6
0.1uF   0.1uF   10uF

GND   GND   GND

U1
VSUP   DVDD
BASE   RATE
AVDD   XI
VFB   XO
AGND   DOUT
VBG   PD_SCK
INA-   INB+
INA+   INB-
HX711

GND

DATA
SCK

Load Cell

7-Segment Display

A
F   B
G
E   C
D   DP

A B C D E F G DP   D1 D2 D3 D4

R6 100   A
R7 100   B
R8 100   C
R9 100   D
R10 100   E
R11 100   F
R12 100   G
R13 100   DP

DIG4
DIG3
DIG2
DIG1

7-Segment
Display

Arduino

J1
A0   RX
A1   TX
A2
A3   D2
A4   *D3
A5   D4
        *D5
        *D6
IOREF   D7
RES   D8
VIN   *D9
5V   *D10
3.3V   *D11
AREF   D12
GND   D13
GND   SDA
GND   SCL
ARDUINO_R3_SHIELD

DIG2
DIG3
DIG4

VIN

VCC

GND

SCK
DATA
IGNITE
A
B
C
D
E
F
G
DP
DIG1

Ignition

GND   JP1
R1
Q1
IGNITE

VIN

GND

Power

VIN   1
      2
JP5

GND

Spark Static Testing Array

TITLE: Spark

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