



Arduino Pro Micro connections:
- SPI: 15 (SCK), 16 (MOSI), 14 (MISO), 10 (CS - "motorsPin")
- I2C: 2 (SDA), 3 (SCL)
- Meter pins: 8 (A), 9 (B)
- brakes pin: 7
- Forward pin: 6
- Reverse pin: 5
- Throttle pot pin: A0

Kelly controller connections:
5VA and 5VB connect - pin 4 (5V)
GNDA and GNDB connect - pin 6 (GND)
Throttle lines - pin 3 (Throttle)

KC connections:
J1/J11:
1: Foot_SW (blue)
2: Brake (12v / gray)
3: REV (purple)
4: FWD (yellow)
5: Brake_AN (green)
6: Throttle (white)
J2/J12:
1: PWR (brown)
2: +48V (orange)
3: +12V (thick red)
4: + 5V (red)
5: GND (black)
6: Meter (dark gray)

Switched 5VA and 5VB to Vcc on pot connections.
Haven't tested. To get last cut board to work
cut traces and put diodes in line. Voltage drop
seems to have done the trick.

Contactor is energized along with
Kelly controller when power
switch is engaged.
Mounted off board

From: <https://kellycontroller.com/wp-content/uploads/KLS-h/KLS-DHNM-CAD-Model-13>

See Front Side

1	2	3	4	5	6	7
Brown	Yellow	Red-0.75	White	Grey	Black	Purple
Power	Forward_SW	12V	Throttle	Brake_SW	Brake_SW	Reverse_SW
8	9	10	11	12	13	14
Pink	NavyGray	Red	Black	Blue	Green	Grey
Power	12V output	12V output	12V output	12V output	12V output	12V output

Orgn Drk Red Blk Blu gry 14PIN Connector

DJ7091Y-2.3-11

Orange	Black	White
REV-SW	GND	PWR
(1)	(6)	(12)
Red	Yellowish	Blue
12V Brake	ECO	12V
(11)	(22)	(11)
Greenish	Pink	Brownish
CAN_H	PWR	CAN_L
(3)	(7)	(3)

See from output side

DJ7091Y-2.3-21

Grey	Green
Foot_SW	Throttle
(13)	(3)
Black	D-Gray
GND	Meter
(2)	(8)
Purple	Brown
5V	Brake_SW
(1)	(2)

See from output side

DJ7061Y-2.3-21

Black	Red	Purple
GND	Temp	5V
(1)	(1)	(3)
Yellow	D-Green	D-Blue
Rev1 A	Rev1 B	Rev1 C
(3)	(1)	(3)

See from output side