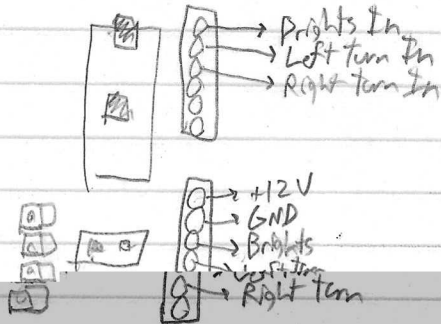


Arduino Box



4-core wires:

1

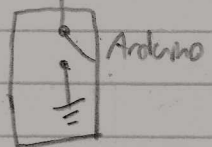
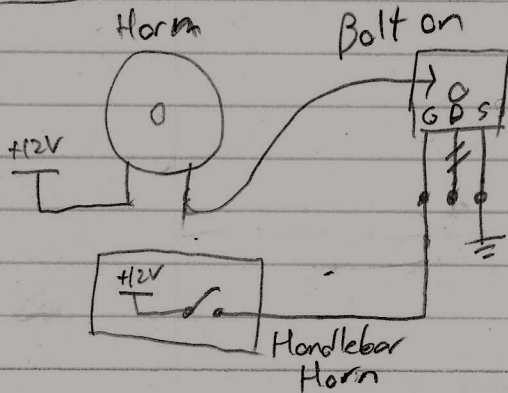
Black: GND
 White: Brights In
 Red: Right turn In
 Yellow: Left turn In

2

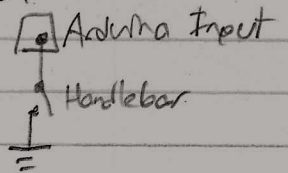
Black: +12V
 White: Brights Out
 Red: Right turn Out
 Yellow: Left turn Out

→ ALL IO is Active Low !!

Horn



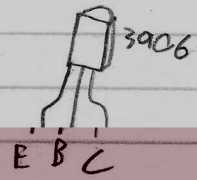
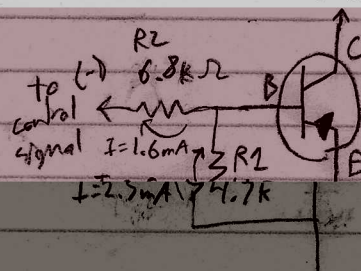
Inputs



Gauge Cluster

Red → Vbat +12V (clock)
 Brown → Key +12V power
 Black → GND
 Orange → L Turn (-)

Indicator Schematic



R1 Pullup on Base
 R2 Rbase $I_{EB} = 1.65mA$

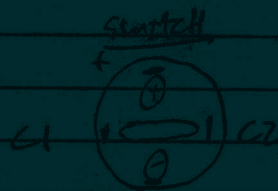
Blue → R Turn (-)

Yellow → HB Ind (-)

White → Neutral IND (+)

Grey → Oil Ind (+/-)

Bars



LED(3)	1	2	3	4
SWITCH	TS/L	HORN	H/B	TS/R
LED Active	LOW	LOW	LOW	LOW
Relay Active	LOW	HIGH	LOW	LOW

CENTER-LEFT	CENTER-RIGHT	LEFT-RIGHT
GND	+12V	GND (L→R)
LT SW AL	RT SW AL	+12V (R→L)
HORN SW AL	HL SW AL	
LT LED AL	RT LED AL	
SPARE LED AL	HL LED AL	

- LEDs all need +12V constant, for AL control
- Switches all need GND constant, for AL control (except HORN is on +12V)
- Horn SW powers on FET bolted onto the horn