+12V   +5VREG

LM7805

BATT

+5VREG

HEAD
LIGHTS

+12V

BRAKE
LIGHTS

MOTOR
CONTROL

PWM

HLTFET

BLFET

IRLR2703PbF

IRLR2703PbF

Pin 5

Pin 4

Pin 2

+5V
ACCSW
ACC
GND

BRKSW
GND
GND
LTSW

Motor
GND
N/C
+12V

ARDUINO UNO
Atmel ATMEGA328

+12V
BLFET
BLFET
+12V

GND

ACC   ACCSW
NO

Pin 7
BRKSW

Pin 6
LTSW

Pin A0

+12V

+5VREG
HLFET
HLFET
+5VREG

Vin

+12V

10uF

+5V

Accelerator

Pin A5

10K

Pin 3

BRAKE
SWITCH

HEADLIGHT
SWITCH

10K

5K

1/3 Divider on +12V

+12V

+

Motor

GND

N/C

+12V

MOTOR
CONTROL

+12V

SHIFTER

DIRECTION
CONTROL

MOTOR

+12V

3Ω   D   3Ω   3Ω   3Ω   3Ω   3Ω

G
IRF1324PBF   S   IRF1324PBF   IRF1324PBF   IRF1324PBF   IRF1324PBF   IRF1324PBF

+12V

2   0   7
0
0   6
0   0

MOTOR
CONTROL

+12V

2   0   7
0
0   6
0   0

MOTOR
CONTROL

+12V

2   0   7
0
0   6
0   0

MOTOR
CONTROL

MIC4422CN   MIC4422CN   MIC4422CN
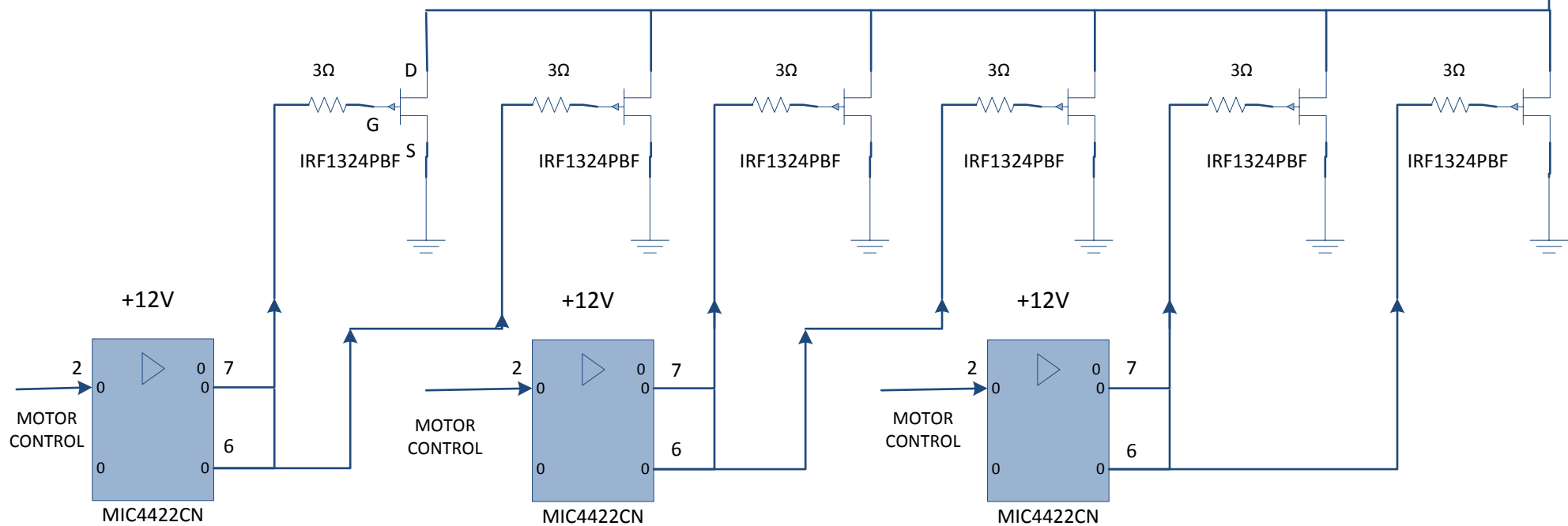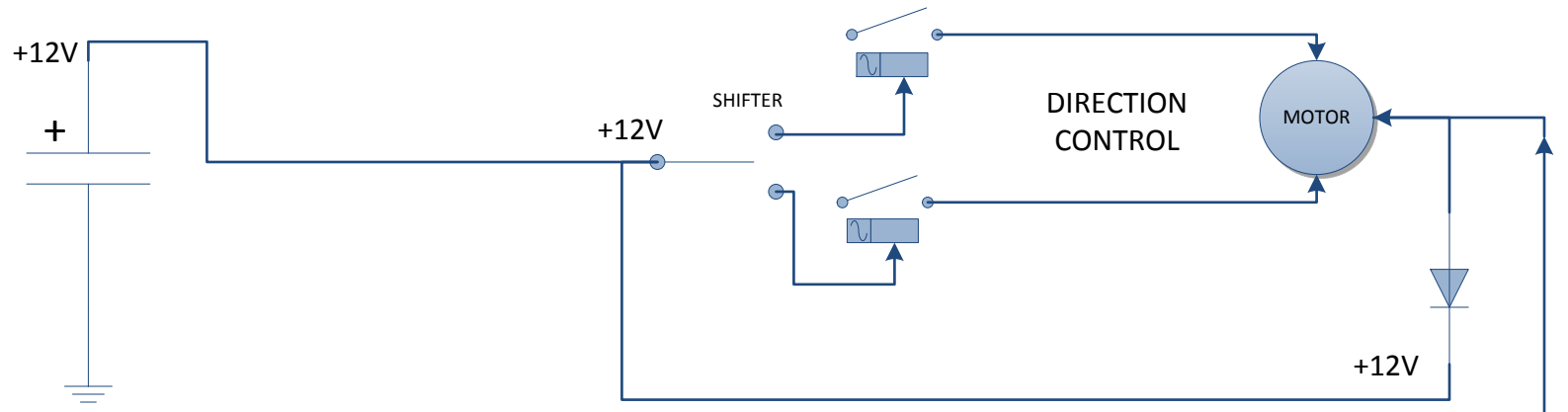
Add bypass caps for power pins VS (1,8) GND (4,5)