

3-0235 — 50 SHEETS — 5 SQUARES  
3-0236 — 100 SHEETS — 5 SQUARES  
3-0237 — 200 SHEETS — 5 SQUARES  
3-0137 — 200 SHEETS — FILLER

COMET

## Milestone 3B - Base electronic Circuit

### Electronic Parts List for Base

- 2 stepper motors
- 2 Pololu Stepper motor drivers
- 2 IR Rangefinders
- 1 IR Sensor

We will use 2 separate systems for the base/mobility and the shooting mechanism.

We will use 2 separate Pic24 chips and 2 PCB's

We will need

- 3.3 V to run the MCU's and Pololu's
  - ~ 2.5-10.8 V to drive stepper motors (we'll likely use ~10 V)
- This will require 1 Voltage Regulator to get the battery voltage to 10 V constantly

### Electronic Parts List for Turret

- 1 servo to rotate turret
  - 2 BLDC to shoot
  - 1 IR rangefinder
  - 1 IR sensor
- } point in same direction towards Goal

3.3 V for Pic  
4.8 V for Servos  
10 V for BLDC motors

### Battery

14.4 V 2200 mAh NiMH

we will use 3 different voltage regulators to get to 3.3, 4.8, and 10 V

# BASE DESIGN CIRCUIT

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