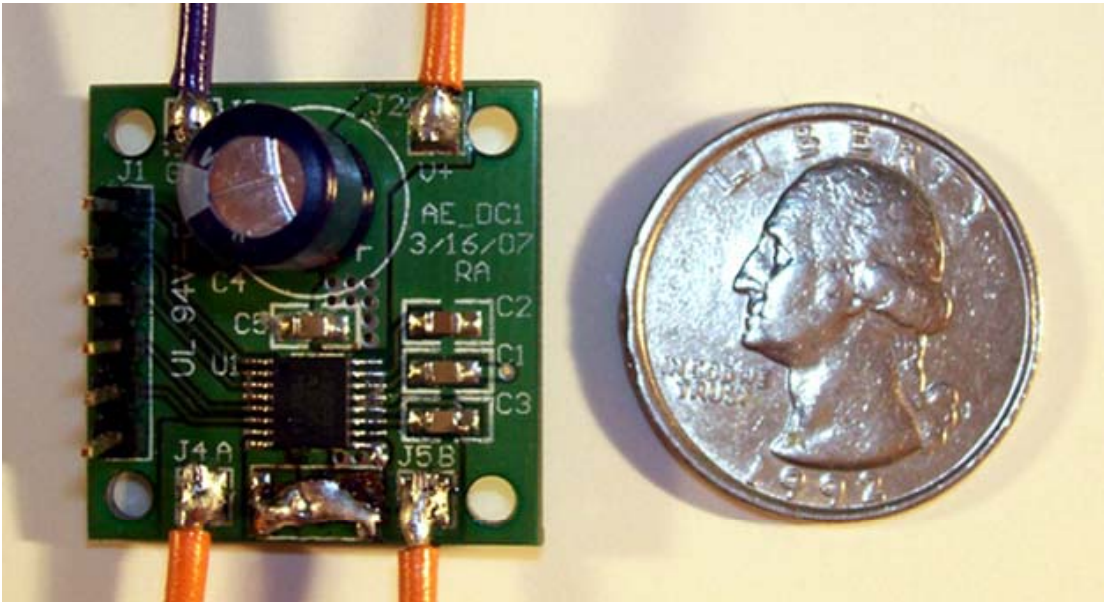
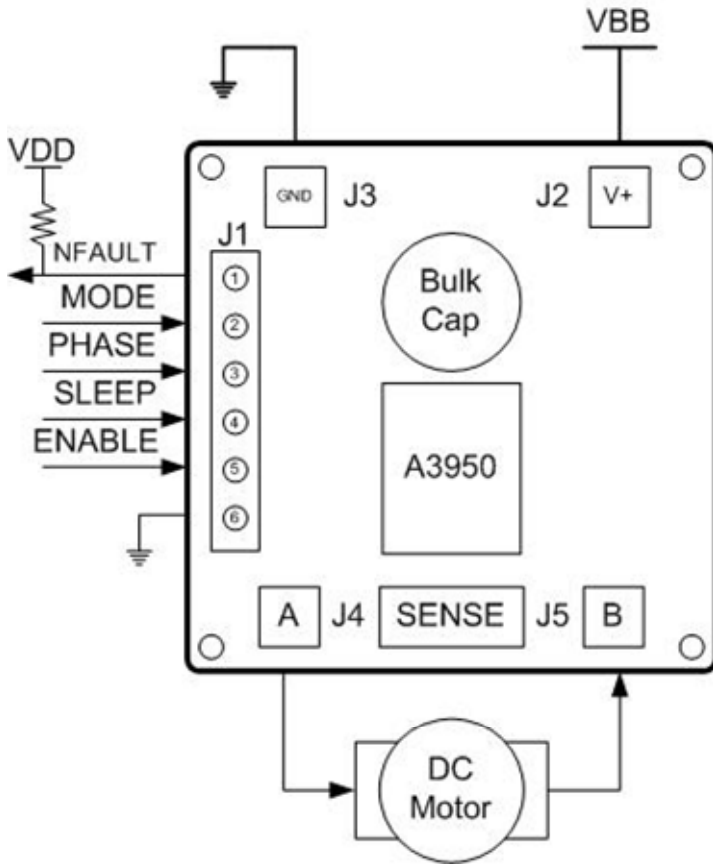


# AE-DC1 Manual



# Single DC Motor Controller



## Single DC Motor Controller (AE-DC1):

- Controls 1 DC Motors with up to 2.8A of current
- ENABLE and PHASE can be PWMd for speed / direction control
- Sense Resistor Optional
- SLEEP pin for reduced current sink during non operation intervals
- MODE pin to select current recirculation mode

## Ease of Use Features:

- Solder battery wires into pads
- Solder motor wires into tabs
- Only measures 1" by 1"
- 6 pin .100" header connector

The AE-DC1 is a small 1" by 1" DC motor controller developed around the A3950 single DC motor driver. It will run motors with up to 2.8A, depending on the Sense Resistor chosen.

**SLEEP:** Disables the H Bridge and places the device under the lowest of power consumption rates. When SLEEP is lo, the device is completely disabled and can not be operated.

**ENABLE:** Enables the current flow. Is don't care when SLEEP is low.

**PHASE:** Controls direction of current. Depending on how the motor is wired, this pin controls CW and CCW motor rotation.

**MODE:** Controls current recirculation mode. Refer to A3950 datasheet for more information on how this pin affects current flow through the H Bridge structure.

**NFAULT:** Provides fault information like output shorts to GND, VBB or to each other. This pin is open collector and requires a pull up resistor.

