

The diagram shows a motor driver circuit. It includes a +10V supply, a COM+ input, a SON input, and a -10V/+10V supply for U3 (4558D). The circuit features two 4558D op-amp comparators, U3.1 and U3.2. U3.1 compares MOT_PWM (via R1, 15k) with a reference voltage (via R2, 10k). U3.2 compares the output of U3.1 (via R4, 10k) with +5Vref (via R7, 10k). The outputs are MOT_EN (via R6, 20k) and MOT_DIF_N. A 59414 component is also shown, connected to the SON input and the output of U3.1.

Diagram illustrating the wiring for Servo Drive Comm. The connections are as follows:

- J7** (Servo Drive Comm) is connected to:
- MOT_DIF_P** (5) and **MOT_DIF_N** (9) are connected to **ENC_B** (8).
- MOT_DIF_P** (5) and **MOT_DIF_N** (9) are connected to **ENC_A** (7).
- SQW** (3) is connected to **ENC_A** (7).
- COM+** (1) is connected to a common ground.

Pinout diagram for the Pro Micro board. The diagram shows a USB-C connector on the left with pins labeled ENC_A, ENC_B, MOT_PWM, MOT_EN, SHIFTER_LR_POT, and SHIFTER_FB_POT. A central chip labeled U1 is connected to these pins. On the right, a 5-pin D-sub connector is labeled SKINNY_PEDAL, BRAKES, CLUTCH, SCLK, and MSGO. The bottom right shows MOSI and MOSI pins. Power pins +5V and GND are also indicated.

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