Bens minimal R2-D2 Electronic Diagram for Astrocomms Pro & shadowMD v1.1 – 2022/11
www.printed-droid.com

Warning: I tried to do my best with verifiying that my connections are correct. But please don't rely on this diagram to 100% and make sure that your connections are ok.

When it comes to troubleshooting remove everything and add one item at a time. Verify everything. Add items until you run into trouble and then investigate the last added item!

The latest diagrams and files can always be found here: http://www.printed-droid.com/files/

Flthy Holoboard

Body Benduino Marcduino

Dome Benduino Marcduino

7-12V in

Syren 10 (to prevent self spinning dome insert a 10k Resistor between S1 and 0V)
Syren10 needs to be used in Packetized Serial Mode (Address 129)
Dip Switch 1&2 are off, Dip Switch 3-6 are on

5V in

DC Dome Motor

12V in for Dome Motor

Dip Switch 1, 2 & 4 are off
Dip Switch 3, 5 & 6 are on

Speaker Line out

Dip Switch 1&2 are off
Dip Switch 3-6 are on

Sabertooth 2x32A (Daisychained from Syren 10)
Sabertooth needs to be used in Serial Mode (Address 128)
Dip Switch 1&2 are off, Dip Switch 3-6 are on

12-24V in for Foot Motors

5/12/24V depending on Relay Version

Switch

Foot Motor 1 out

Foot Motor 2 out