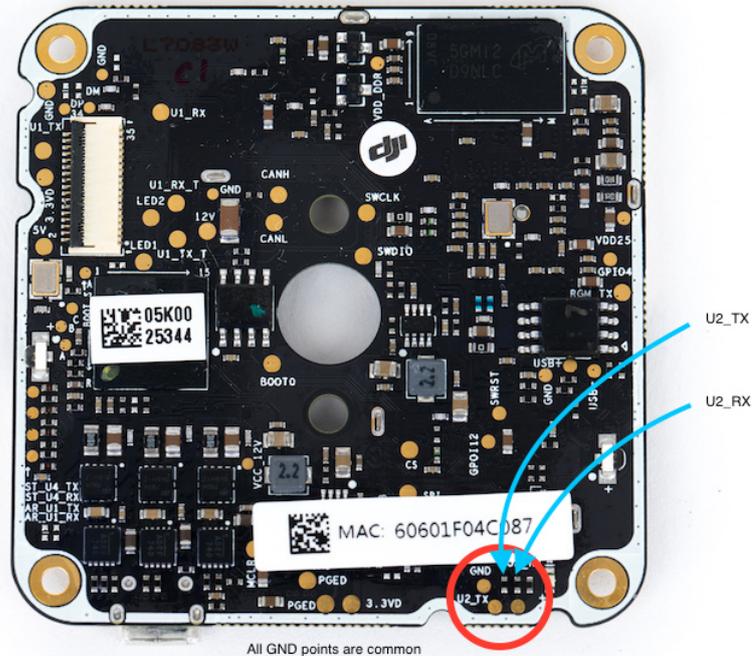


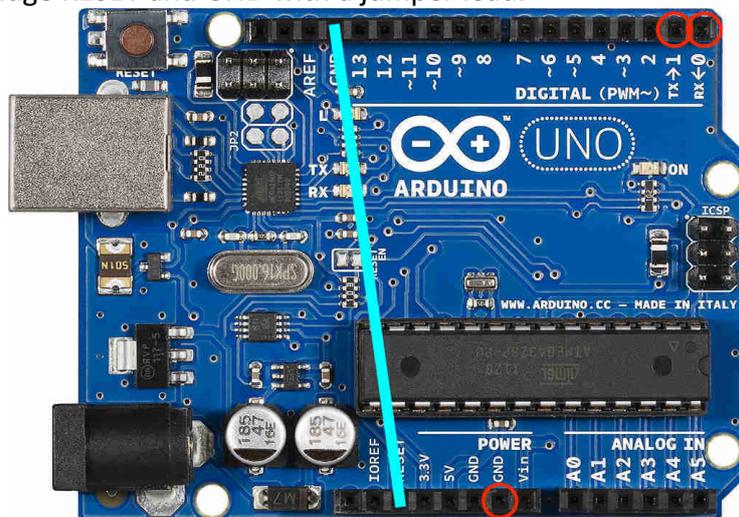
Fixing Bird

1. Remove the camera/gimbal assembly from the Phantom, disconnecting each of the three cables.
 - n.b. Make sure you don't damage the ribbon cable! It's delicate and attached to the frame. Tear this and you're screwed!
2. Solder wires to U2_TX, U2_RX and GND. If it helps, all GND points are common so feel free to solder your GND cable to one of those instead – it may give you some more soldering room.



I'd also like to add that I screwed up and tore off one of the solder pads. If you hit the same problem, holding a jumper cable next to the corresponding resistor will also work, it will just be frustrating when typing the commands.

3. Using an Arduino (Uno), connect TX0 to RX, RX0 to TX, and GND to GND. Finally, bridge RESET and GND with a jumper lead.



4. Skip to final section

Entering the commands

Ensure you have the Arduino app/drivers installed!

On Mac/Linux:

1. Open Terminal.app or your preferred terminal client
2. Run `screen /dev/cu.usbmodem1421 115200` (replacing `cu.usbmodem1421` with your Arduino's identifier)

On Windows:

1. Download and execute `putty.exe` (available at <http://goo.gl/uSrbDu>)
2. Click 'Serial' and enter the correct COM port (can be found using the Arduino app)
3. Change the baud rate to 115200
4. Open the connection

Commands:

1. Reconnect the camera/modules/all of the cables to everything
2. Turn on the bird/remote, hit escape as soon as you see:
Press ESC to abort autoboot in 1 seconds
3. You should see a prompt like this:
`ar7240>`

4. Enter the following commands

```
setenv bootargs board=DJI-WM305 console=ttyS0,115200
root=/dev/mtdblock5 init=/sbin/init mtdparts=ath-
nor0:256k@0k(u-boot),64k@256k(u-boot-
env),896k@320k(kernel1),3008k@1216k(rootfs1),896k@42
24k(kernel2),3008k@5120k(rootfs2),64k@8128k(art),390
4k@320k(firmware1),3904k@4224k(firmware2),8192k@0k(a
ll)
```

```
bootm 0x9f420000
```

```
mkdir /tmp/flash
```

```
mount -t jffs2 mtd3 /tmp/flash
```

```
cd ./etc/init.d/
```

```
vim ./rcS
```

I've whacked these in a .txt file in case you can't copy them properly from this PDF...

<https://goo.gl/YL1rhI>

5. I don't have the time to explain how to use VIM, Google it. Basically, you want to delete ^M from the end of each line, then save and quit.
6. Now you can remove your soldered cables (carefully!), reassemble everything and fly away!

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