

My quad yaws unexpected at full throttle, one corner/side dips at full throttle

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My Quad yaws and or banks near full throttle! Is that normal? What to do against that?

It can be caused by off center CG, or unmatched motors, or quad not straight. All motors have to be absolutely vertical and parallel to each other!

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Permanent link:

The h8 comes with many different motors made by different companies, and sometime

<http://sirdomsen.diskstation.me/dokuwiki/doku.php?id=yawing&rev=1480239138>

FW motors are a bit different, and can cause this. Silverware often has "problems" near full throttle. Silverware

First of all, lets explain why Silverware often has "problems" near full throttle. Silverware

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all power available from the motors on full throttle (with stock settings), there is no spare throttle left

to correct the yaw in the output #define MIX_LOWER_THROTTLE, which will lower throttle to maintain

control. The downside you have less max throttle.

You can add these defines in config.h around line 141:

But if not, you get the mentioned problems!

```
#define MIX_LOWER_THROTTLE
```

```
#define MIX_LOWER_THROTTLE REDUCTION_PERCENT 30
```

Before doing the following steps, please make sure your props look good (replace if possible for

another way would be to change the pid limits to make yaw have higher priority. In file pid.c:

output limit that? Here is a text, freely copied from a [RCGroups Post by Silverxxx](#)

```
const float outlimit[PIDNUMBER] = { 0.8 , 0.8 , 0.4 };
```

```
limit of integral term (abs)
```

```
const float integrallimit[PIDNUMBER] = { 0.8 , 0.8 , 0.4 };
```

The limit for roll and pitch is 0.8, and for yaw 0.4 in this case (defaults)

You could increase 0.4 in both places or reduce the other 2 axes limit, for example. sadly, this won't

fix the unbalance, it will just transfer it to another axis, or make it less noticeable.

Just play with these values a bit and see what happens. Sometimes even reducing yaw limit (or one of

the others) can help - a quad's behavior is not always logical...