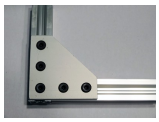
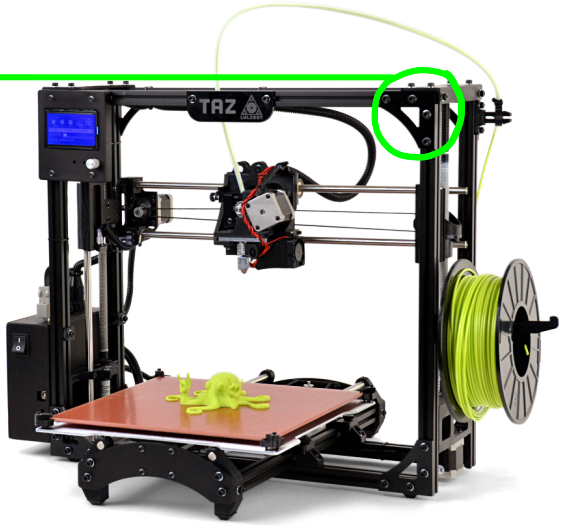
TazUp, a minimalistic upgrade for existing machines, is intended to improve orthogonality and reduce vertical (z-axis) positioning errors, particularly under strong acceleration.

Original linear motion hardware is retained to simplify the application of these modifications.

Step 1

Plastic joining plates may be replaced with metal equivalents available from OpenBuilds.





Step 2

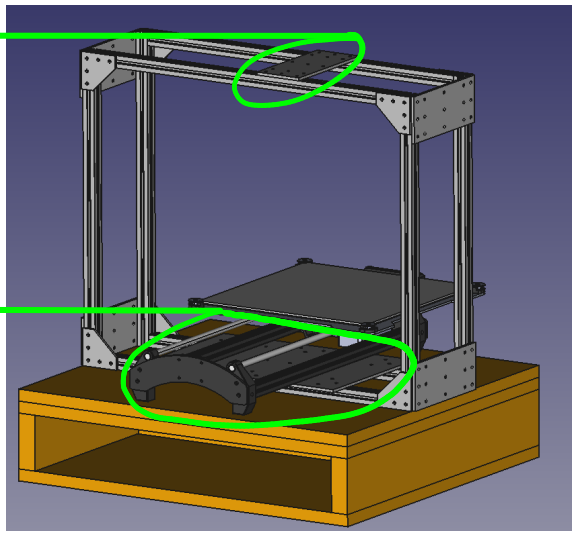
Add GantryPlates to the frame where possible. These custom metal plates are available through eMachineShop.

Up to five plates may be added. Six 12mm length screws will be required per plate.

Step 3

Dismount Y-axis module from Taz. Remove existing corner brackets.

Bolt Y-axis to the XYplate. Then bolt XYplate to the frame. In effect, the Y-axis will now be joined by a single, flat, rigid plate, rather than several corner brackets.



Bill Of Materials

JoiningPlate		8x	$38.40
	http://openbuildspartstore.com/90-degree-joining-plate/		
GantryPlate		5x	$115.10
	eMachineShop		
XYPlate		1x	$83.92
	eMachineShop		
TeeNuts (25 Pack)		1x	$4.95
	http://openbuildspartstore.com/tee-nuts-25-pack/		
Screws M5x12	(100 Pack)	1x	$26.14
	https://www.fastenal.com/products/details/1140877		
Total	$268.51