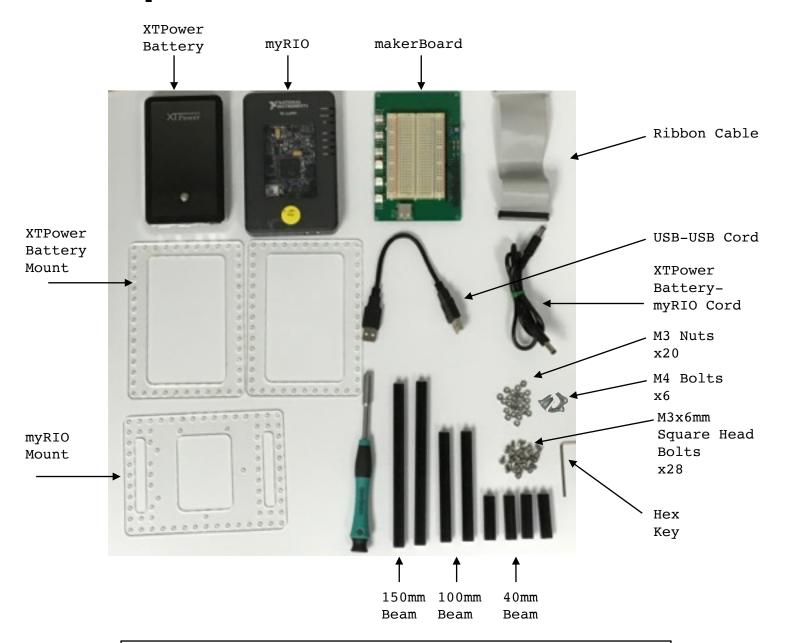
myRIO Robotics Kit: MOUNT ASSEMBLY INSTRUCTIONS



- XTPower Battery x1
- myRio x1
- MakerBoard PCB x1
- myRio Mount x1
- XTPower Battery Mount x2
- USB-USB Cable x1
- XTPower Battery-myRIO Cord
- Ribbon Cable x1

- 150mm Beam x2
- 100mm Beam x2
- 40mm Beam x4
- M3x6mm Square Head Bolts x28
- M3 Nuts x20
- M4 Bolts x6
- Hex Driver x1
- Hex Key x1

Assembling the Battery Mount:



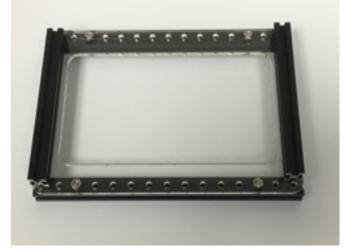
- XTPower Battery
- XTPower Battery Mount x2
- 150mm Beam x2
- 100mm Beam x2
- M3x6mm Square Head Bolts x12
- M3 Nuts x12

Step 1:
Attach 150mm Beam to one of the
XTPower Battery Mounts



Step 2:

Attach 100mm Beam to the other side of the XTPower Battery Mount that already has the 150mm Beams attached to it.



Step 3:

Place XTPower battery into mount so that the 100mm Beams are on the bottom and the battery power button is exposed.

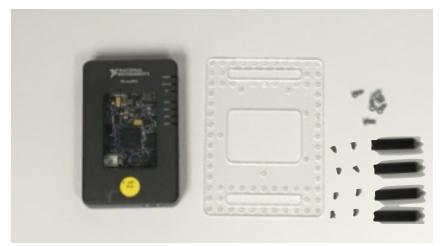


Step 4:

Insert remaining XTPower Battery mount onto battery and secure with remaining nuts and bolts.



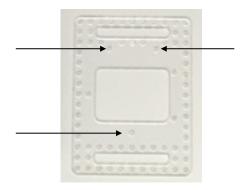
Assembling the myRIO Mount:



You'll Need:

- myRIO x1
- myRIO Mount x1
- M4 Hex Bolts x6
- M3 Square Head Bolts x8
- 40mm Beam x4

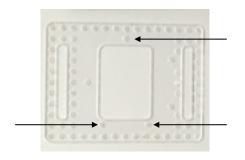
Step 1: Screw in 1/4 of the way, 3 M4 Bolts into myRIO mount holes (shown below)



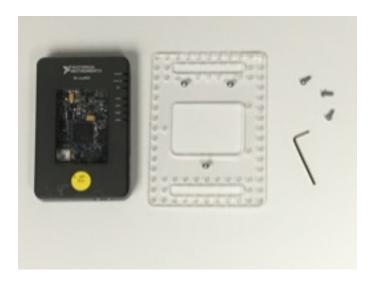
Step 2:

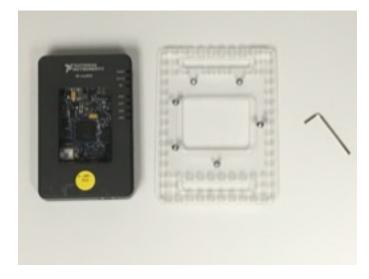
below)

Flip the mount over and screw in 1/4 remaining myRIO Mount Holes (shown



of the way, 3 M4 Bolts into the





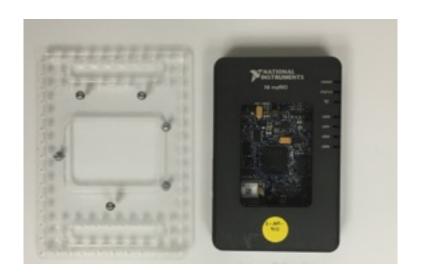
Step 3:

You should now be able to mount the myRIO both vertically and horizontally. Adjust screws as needed for ideal fit.

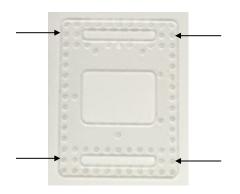


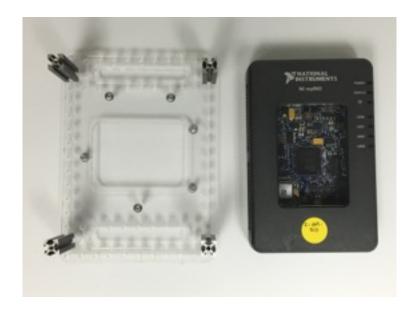


Step 4:
Detach the myRIO from the mount.



Step 5:
Using M3 square head bolts, screw
40mm Beams to myRIO Mount in the
locations shown below.

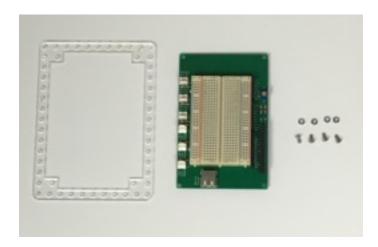




Step 6:
Re-attach the myRIO

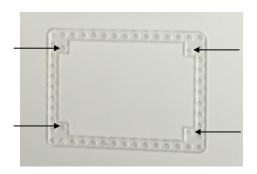


Assembling the MakerBoard Mount



- makerBoard x1
- makerBoard Mount x1
- M3x6mm Square Head Bolts x4
- M3 Nuts x4

Step 1:
Fasten makerBoard to makerBoard
mount with the square head bolts and
nuts using holes shown below:





Attaching the myRIO to the XTPower Battery



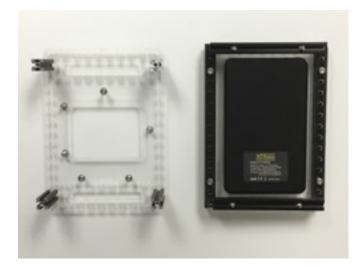
You'll Need:

- •myRIO with Mount x1
- •XTPower Battery with Mount x1
- •M3x6mm Square Head Bolts x4
- •M3 Nuts x4
- •XTPower Battery-myRIO Cord x1

Step 1:

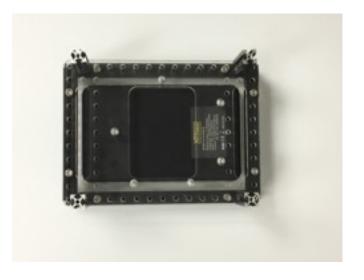
Detach the myRIO from the mount to make assembly easier.

Flip Battery and mount over so power button is face down.



Step 2:

Screw myRio Mount into 100mm beams on XTPower Battery Mount using 4 Square Head Bolts and nuts. Make sure that the side of the myRIO mount with two screws in it is above the battery label as shown in the picture.



Step 3:

Re-attach the myRIO to the Mount. The ports on the myRIO and the ports on the XTPower Battery should line up as shown in the image below.





Step 4:
Using the XTPower Battery-myRIO cord,
plug the battery into the myRIO.



Attaching the makerBoard to the myRIO & XTPower Battery



- Connected myRIO and XTPower Battery
- Mounted makerBoard
- M3x6mm Square Head Bolts x4
- Hex Key
- USB-USB Cable
- Ribbon Cable

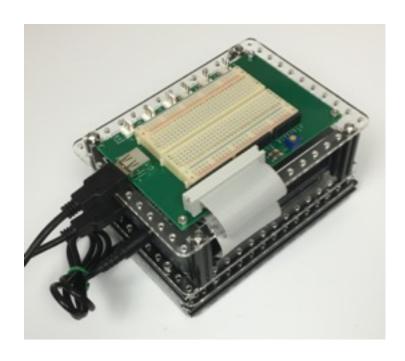
Step 1:
Using the the square head bolts, screw the maker board mount into the 40mm beams attached to the myRIO mount.
Make sure that the USB port on the board is on the same side as the USB port on the XTPower battery.



Step 2:
Plug the makerBoard into the XTPower battery using the small USB-USB cable.

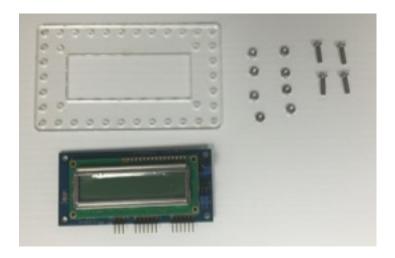


Step 3:
Plug the makerBoard into the myRIO
using the ribbon cable.



Additional myRIO Robotics Kit Mounts

LCD Screen Mount:



You'll Need:

- LCD Screen x1
- LCD Screen Mount x1
- M3x12mm Square Head Bolts x4
- M3 Nuts x8

Step 1:

Insert 4 M3x12mm Square Head Bolts into holes in LCD Screen and fasten with an M3 Nut in the back



Step 2:

Place LCD Screen Mount on LCD Screen and fasten with M3 Bolts





Ball Caster Wheel Mount:



- Ball Caster Wheel x1
- Ball Caster Mount x1
- M2x6mm Bolts x2
- M2 Nuts x2

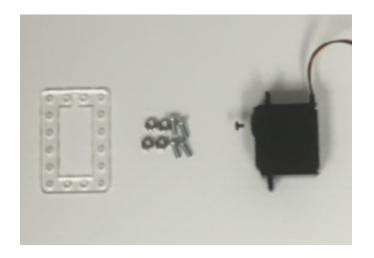
Step 1:
Insert M2x6mm bolts into ball
caster wheel casing and fasten
with M2 nuts.



Step 2:
Insert ball caster wheel.



Servo Motor Mount:



You'll Need:

- Parallax Servo Motor x1
- Parallax Servo Motor Mount x1
- M4 Bolts x4
- M4 Nuts x4

Step 1:

Insert Parallax servo mount onto the back of the servo motor. The side with the cord should line up with the side of the mount that has a small rectangular cutout.





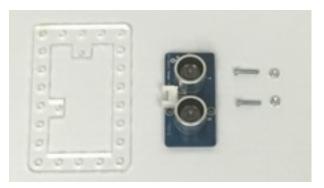
Step 2:
Fasten mount to motor using M4
Nuts and Bolts



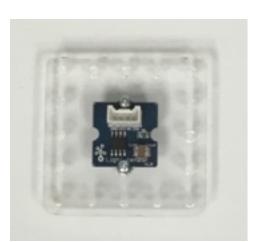


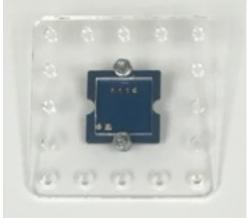
Grove Sensor Mounts:





- Grove Sensor x1
- Grove Sensor Mount x1
- M2x6mm Bolts x2
- M2 Nuts x2





Using M2 Bolts and Nuts, secure Grove Sensor to appropriate mount.



