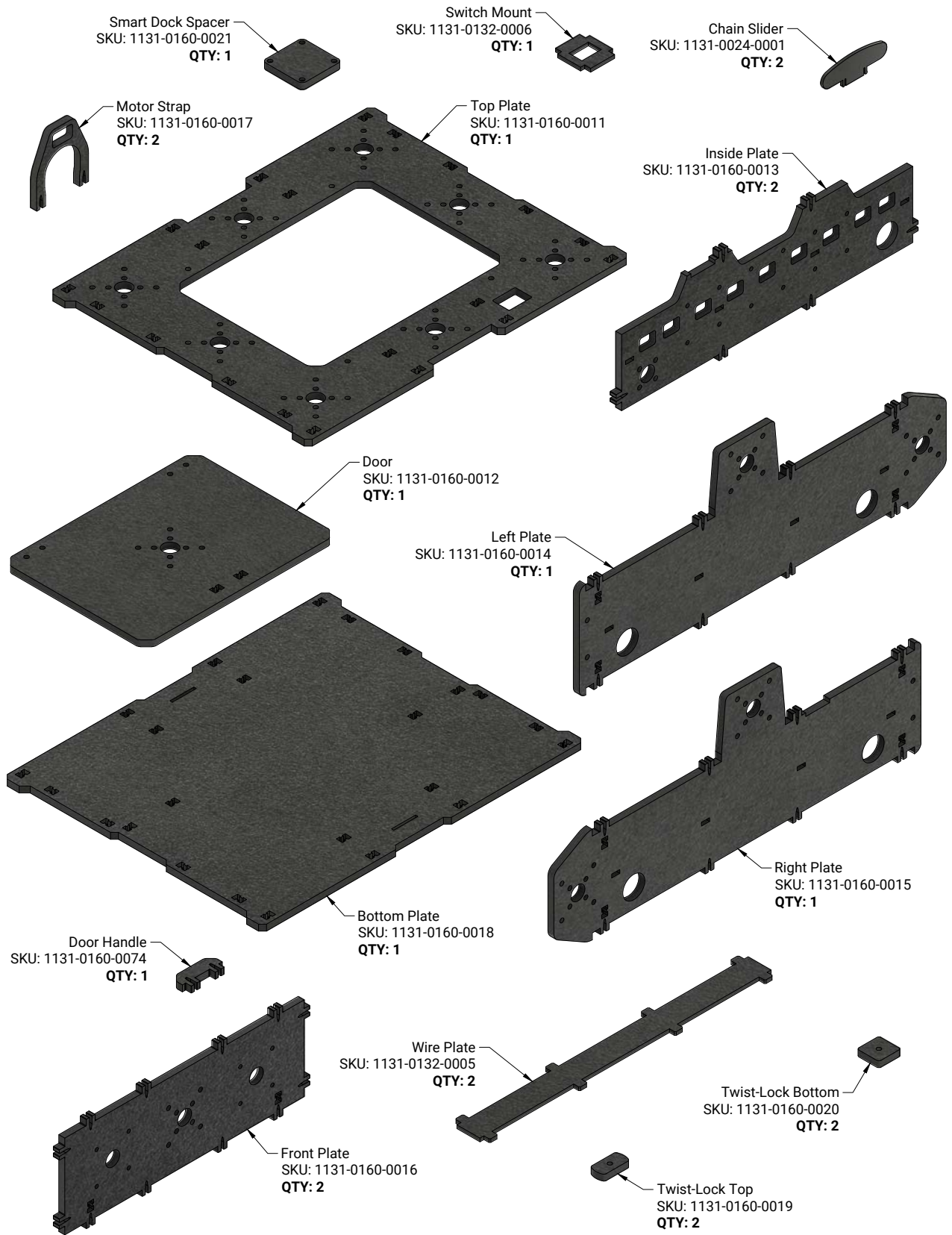




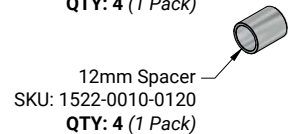
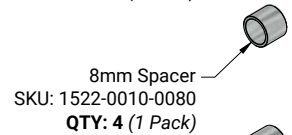
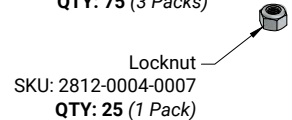
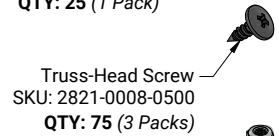
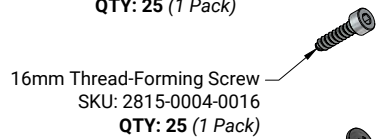
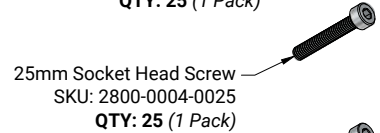
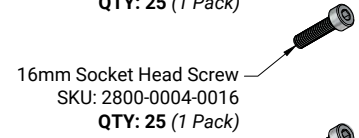
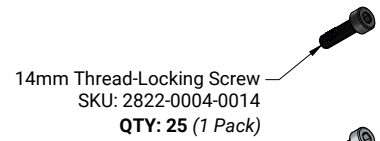
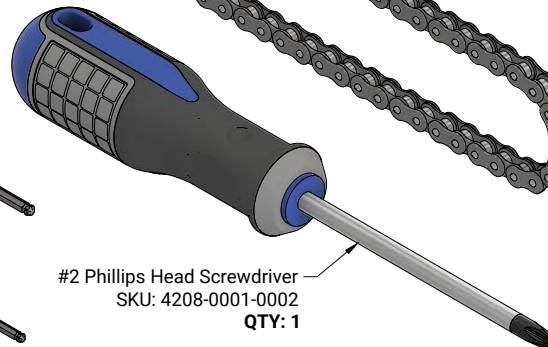
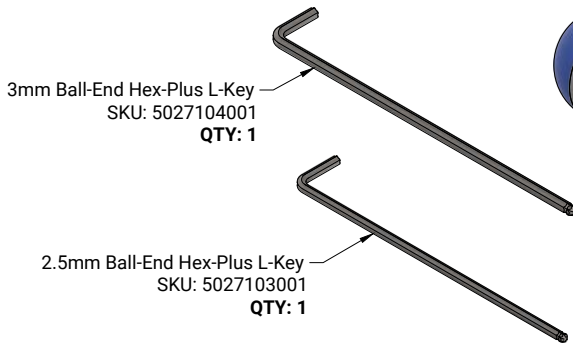
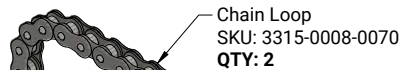
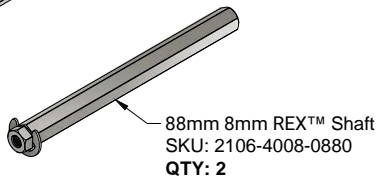
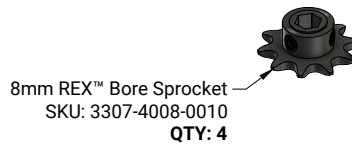
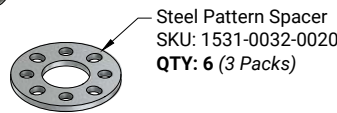
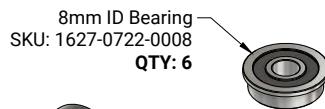
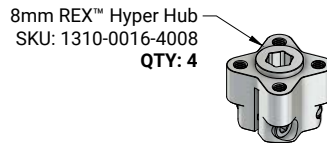
Assembly Instructions for
Overlander-4 All-Terrain Robot Platform (25lb Payload, 3.8mph)
SKU: 3209-0013-0001



Kit Contents



Kit Contents (Cont.)



Kit Contents (Cont.)

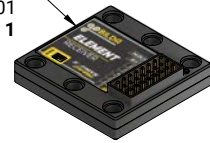


20V Smart Dock
SKU: 3104-0020-0001
QTY: 1



Element-6 Transmitter
SKU: 3111-2006-0001
QTY: 1

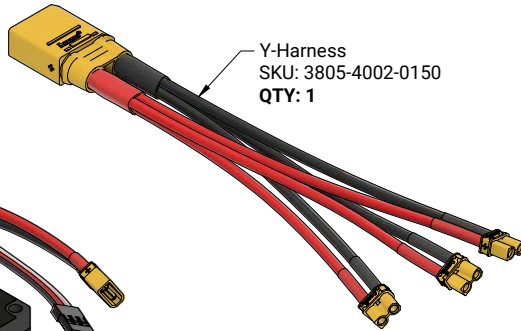
Element Receiver
SKU: 3112-0006-0001
QTY: 1



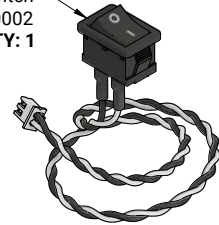
AA Battery
SKU: 3120-0150-0105
QTY: 5 (1 Pack)



Y-Harness
SKU: 3805-4002-0150
QTY: 1



Auxiliary Switch
SKU: 3103-0004-0002
QTY: 1



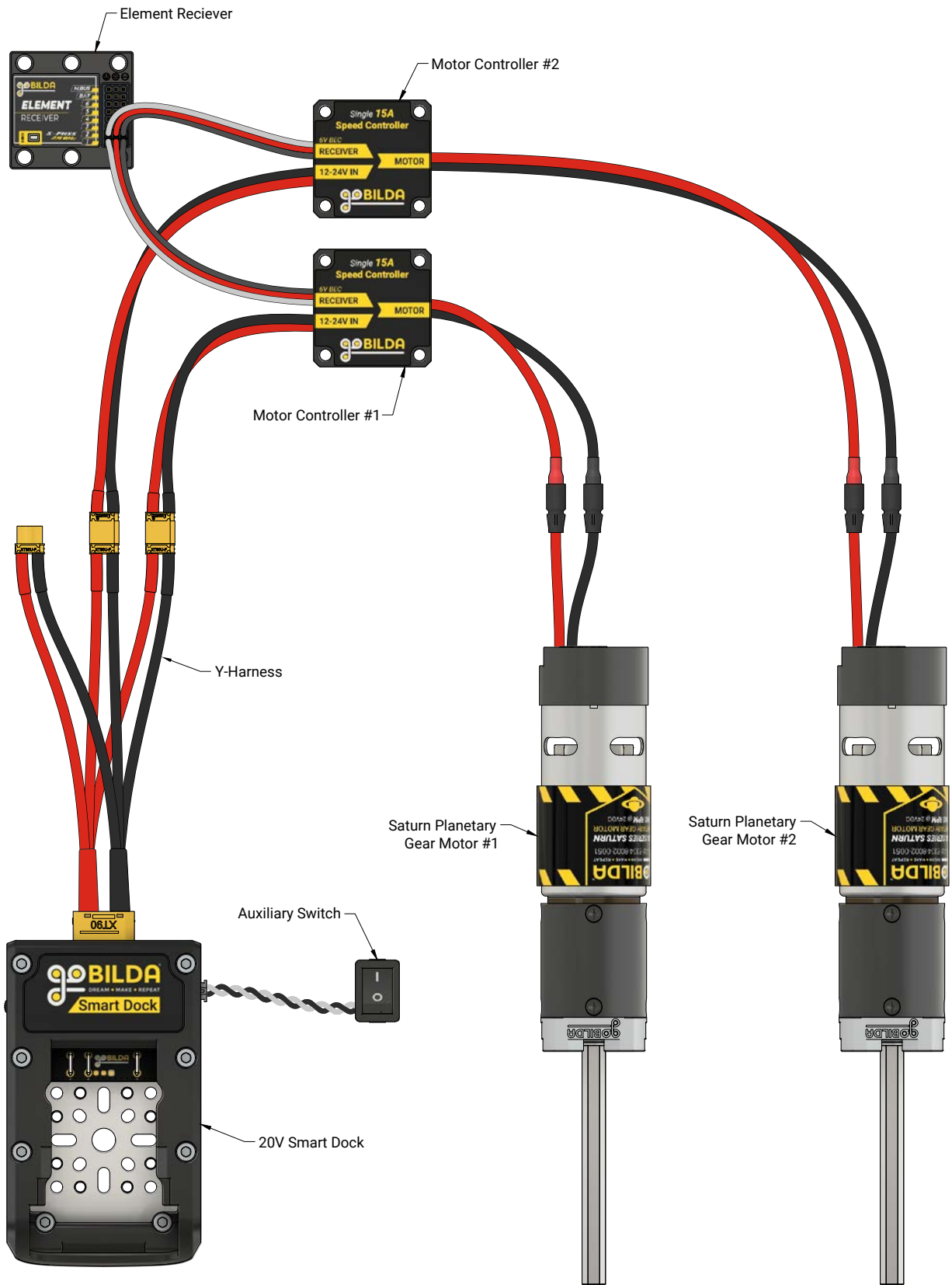
Motor Controller
SKU: 3105-0101-0015
QTY: 2

20V Battery Charger
SKU: 3101-1020-0001
QTY: 1



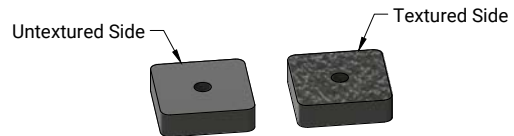
20V Battery
SKU: 3100-1020-0001
QTY: 1

Wiring Diagram:



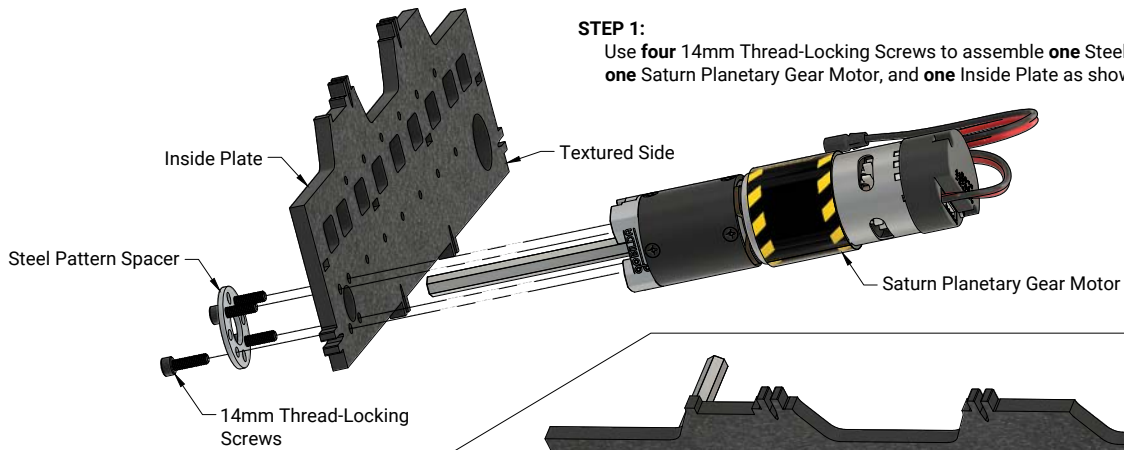
Before You Start:

When assembling with plastic plates, note the orientation of the plates' different textures and assemble as shown in each STEP illustration.



STEP 1:

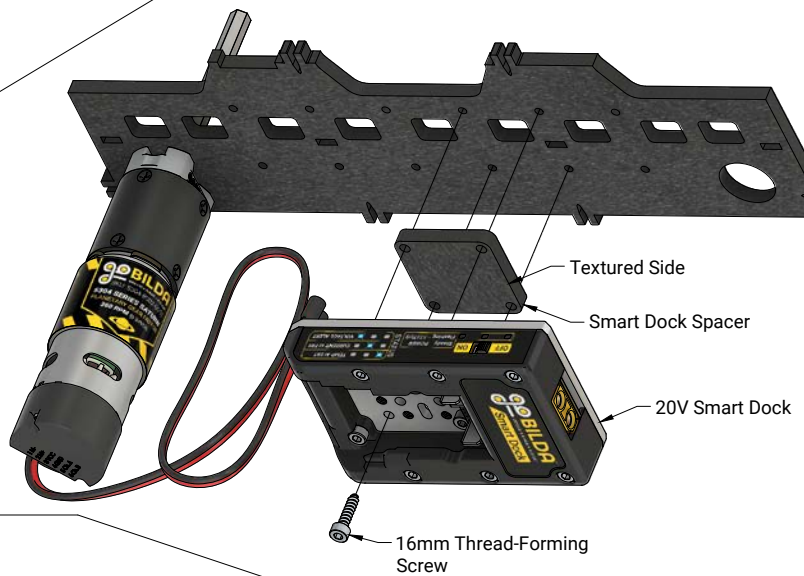
Use **four** 14mm Thread-Locking Screws to assemble **one** Steel Pattern Spacer, **one** Saturn Planetary Gear Motor, and **one** Inside Plate as shown.



STEP 2:

Attach **one** 20V Smart Dock and **one** Smart Dock Spacer using **four** 16mm Thread-Forming Screws as shown.

Make sure the 20V Smart Dock is off.



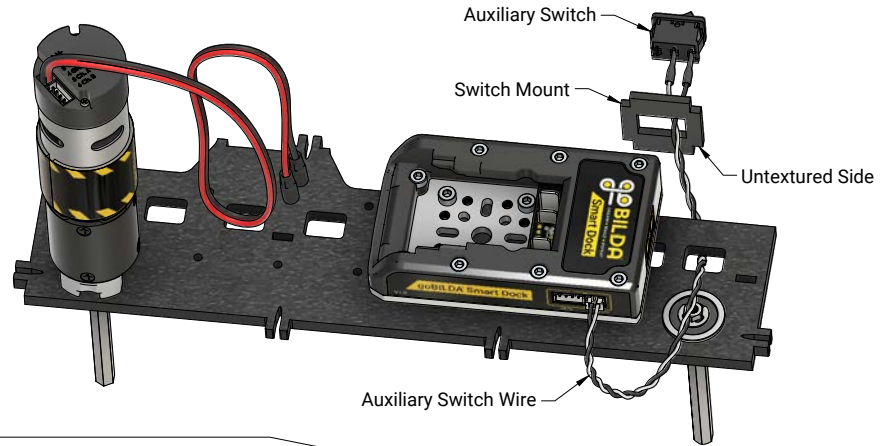
STEP 3:

Slide **one** 8mm ID Bearing and **one** 88mm 8mm REX™ Shaft into the Inside Plate as shown.



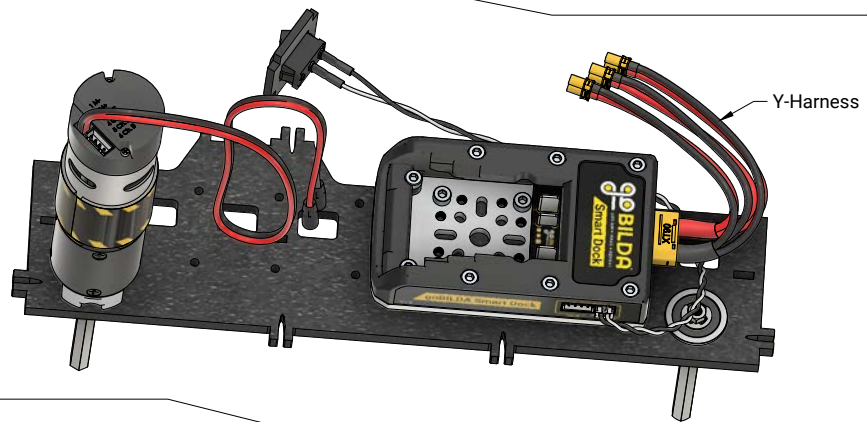
STEP 4:

Snap **one** Auxiliary Switch into **one** Switch Mount. Route the Auxiliary Switch Wire through the Inside Plate and into the Switch Port on the 20V Smart Dock as shown.

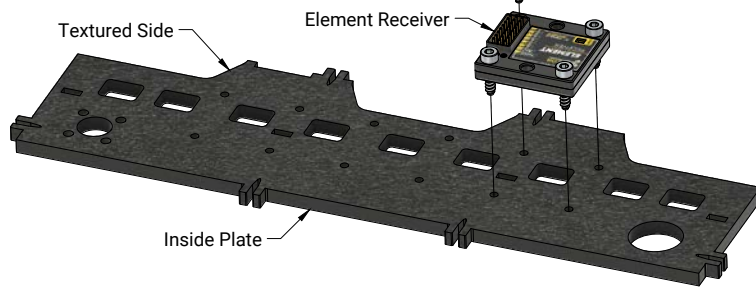


STEP 5:

Plug **one** Y-Harness into the 20V Smart Dock as shown.

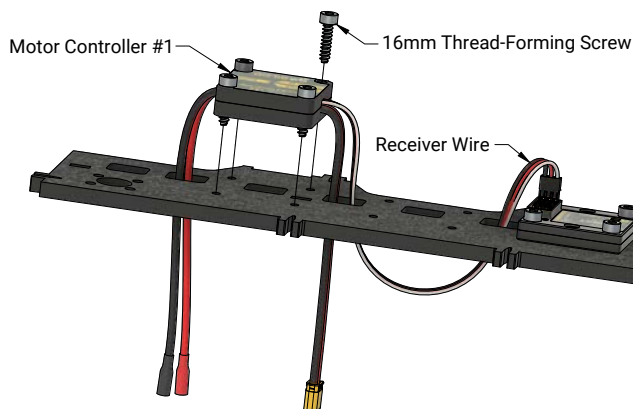


16mm Thread-Forming Screw



STEP 6:

Attach **one** Element Receiver to **one** Inside Plate using **four** 16mm Thread-Forming Screws as shown.

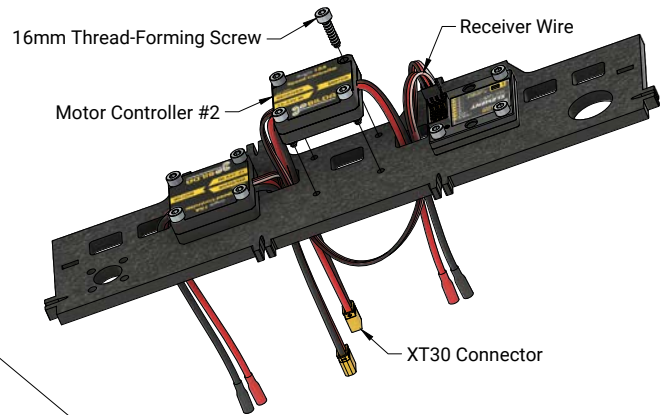


STEP 7:

Attach **one** Motor Controller using **four** 16mm Thread-Forming Screws as shown. Route the Receiver Wire through the Inside Plate and plug it into Port #1 on the Element Receiver.

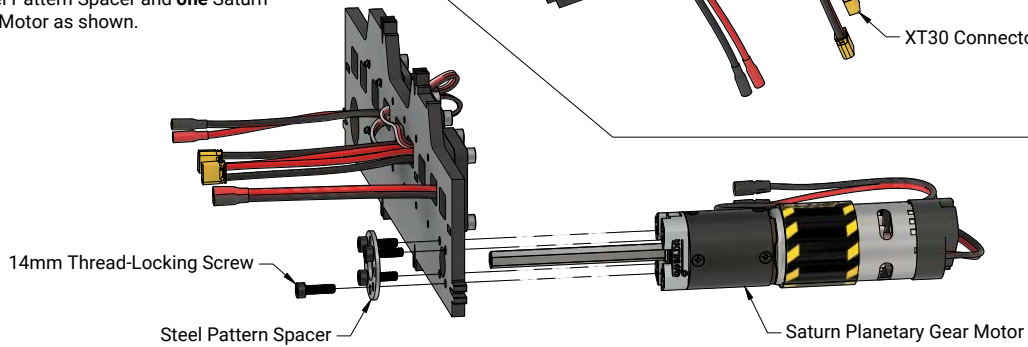
STEP 8:

Attach **one** Motor Controller using **four** 16mm Thread-Forming Screws as shown. Route the Receiver Wire through the Inside Plate and plug it into Port #2 on the Element Receiver. Note the location of the XT30 Connector.



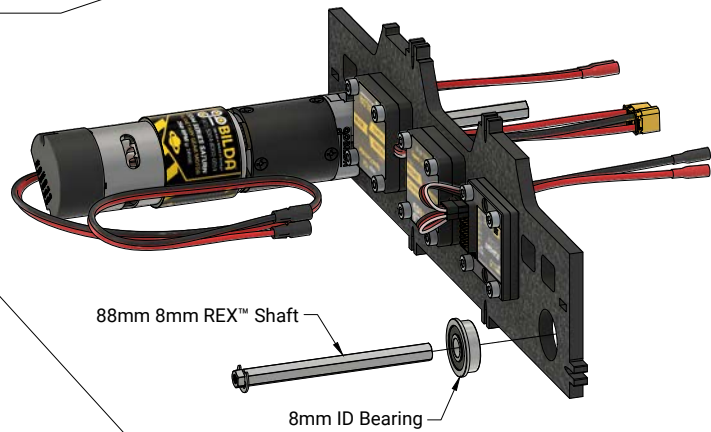
STEP 9:

Use **four** 14mm Thread-Locking Screws to attach **one** Steel Pattern Spacer and **one** Saturn Planetary Gear Motor as shown.



STEP 10:

Slide **one** 8mm ID Bearing and **one** 88mm 8mm REX™ Shaft into the Inside Plate as shown.



STEP 11:

Attach **one** Front Plate as shown. Make sure that the “prongs” of the Inside Plate fit snugly in the hole of the Front Plate, then install **one** Truss-Head Screw as shown in **FIGURE 11-A**.

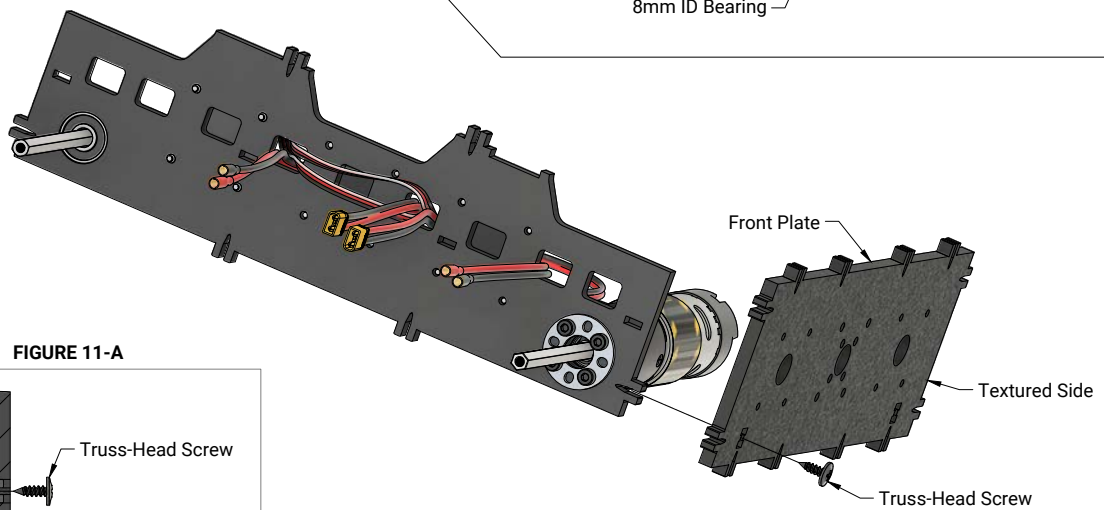
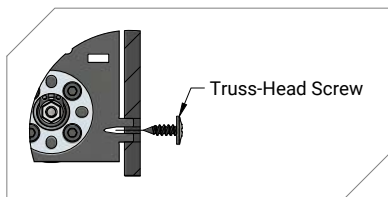
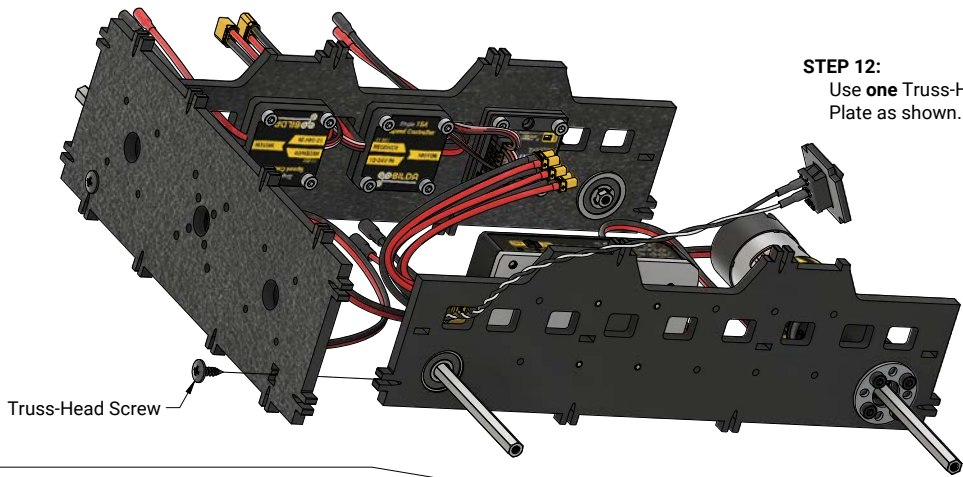


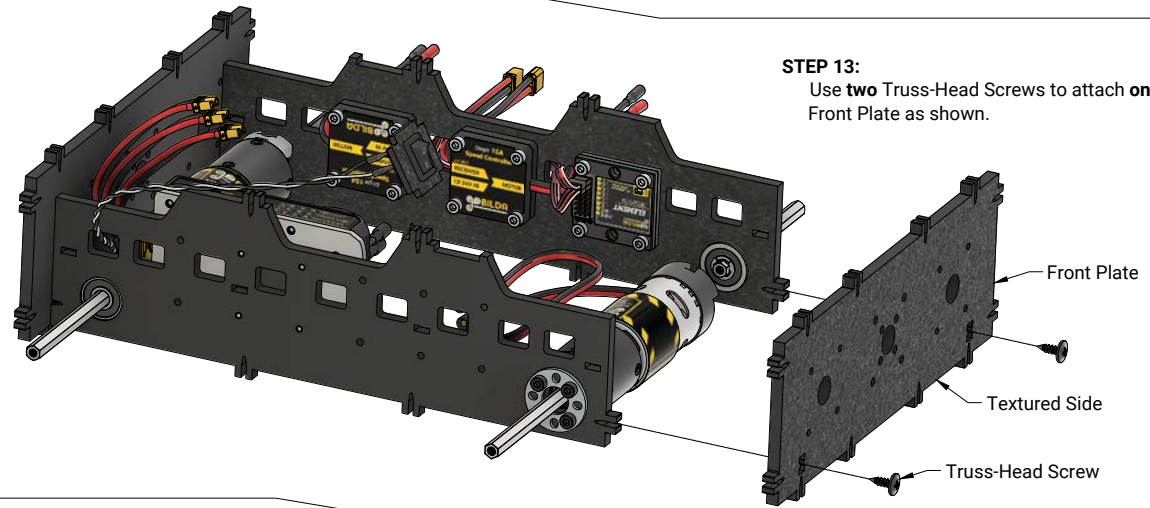
FIGURE 11-A





STEP 12:
Use **one** Truss-Head Screw to attach **one** Front Plate as shown.

Truss-Head Screw

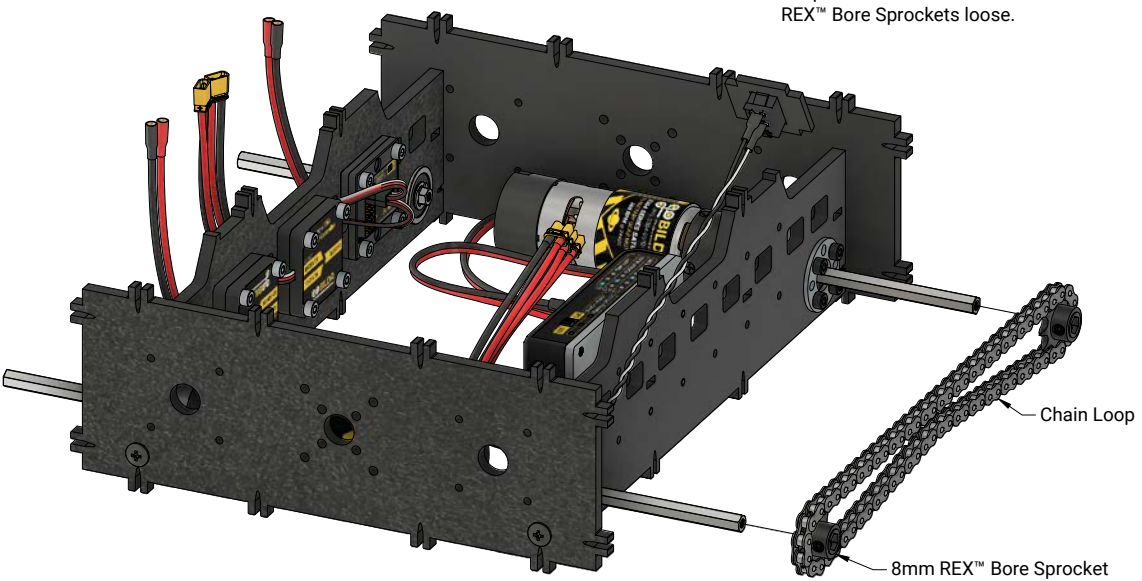


STEP 13:
Use **two** Truss-Head Screws to attach **one** Front Plate as shown.

Front Plate

Textured Side

Truss-Head Screw



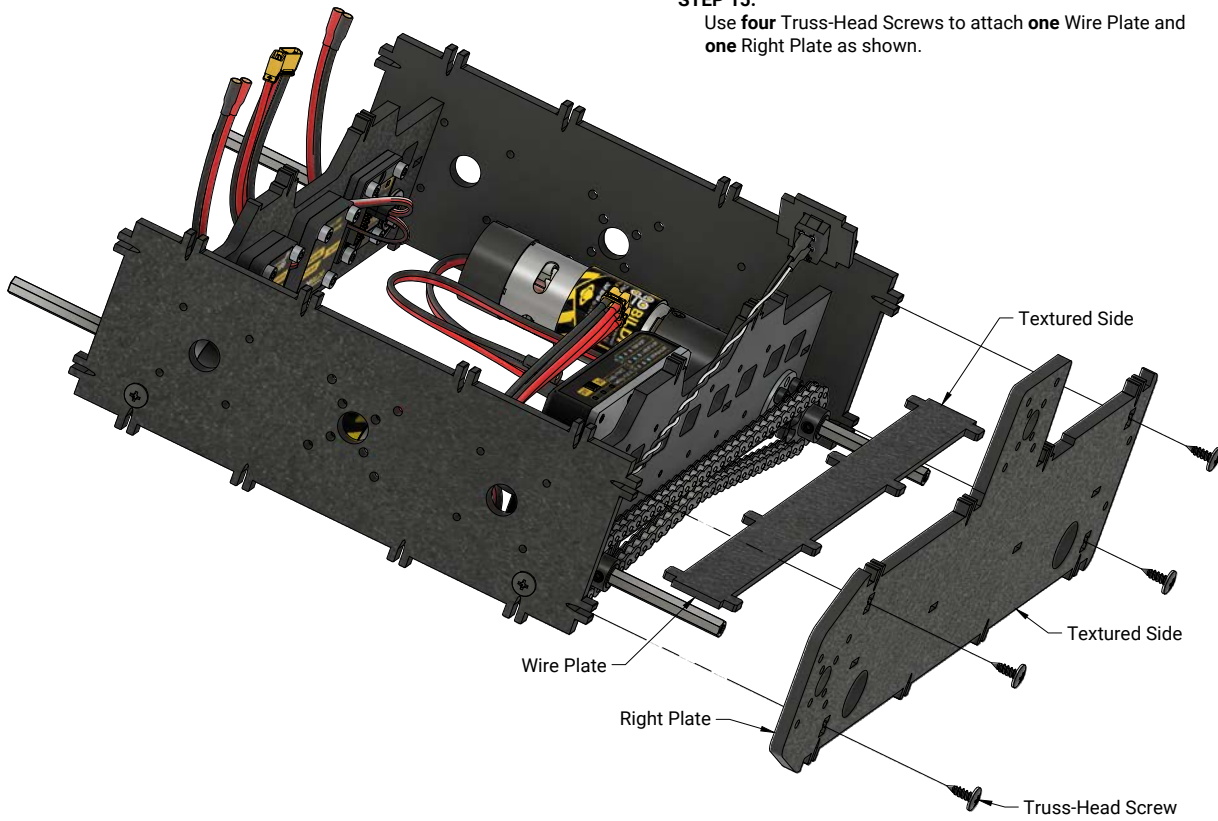
STEP 14:
Slide on **two** 8mm REX™ Bore Sprockets and **one** Chain Loop as shown. Leave the set-screws on the 8mm REX™ Bore Sprockets loose.

Chain Loop

8mm REX™ Bore Sprocket

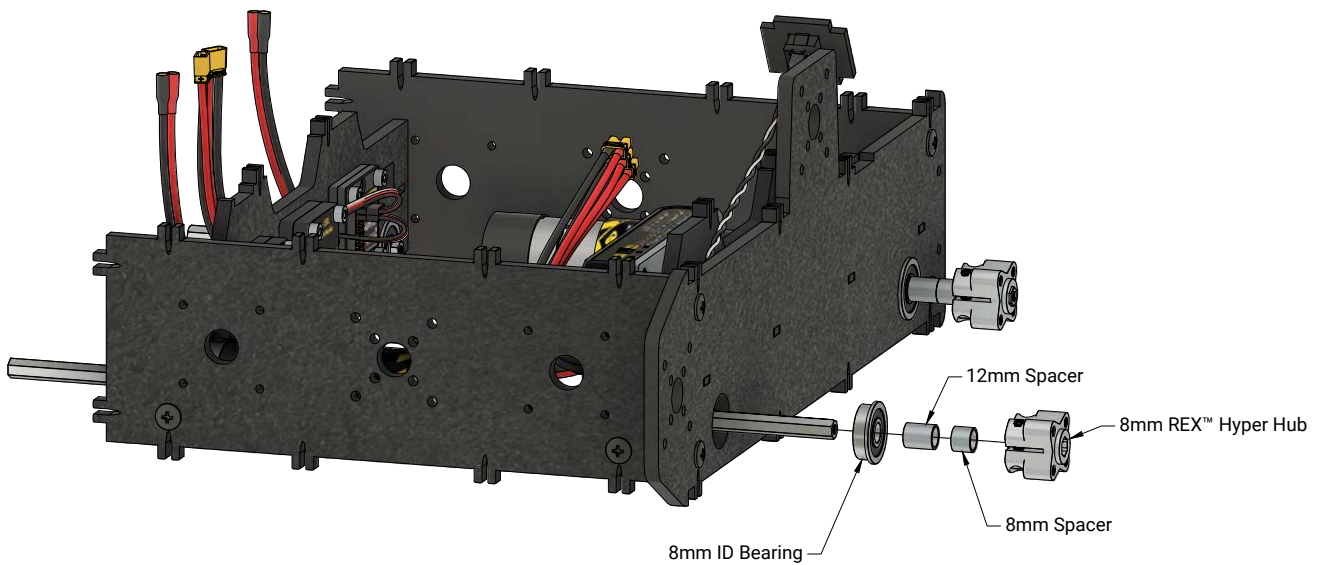
STEP 15:

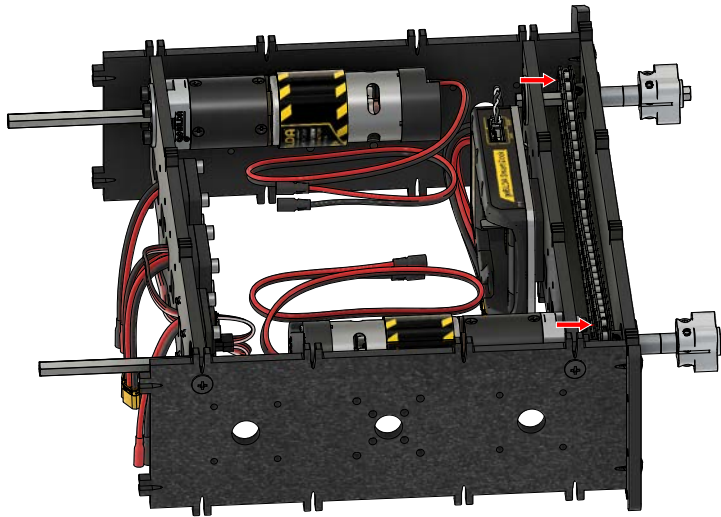
Use **four** Truss-Head Screws to attach **one** Wire Plate and **one** Right Plate as shown.



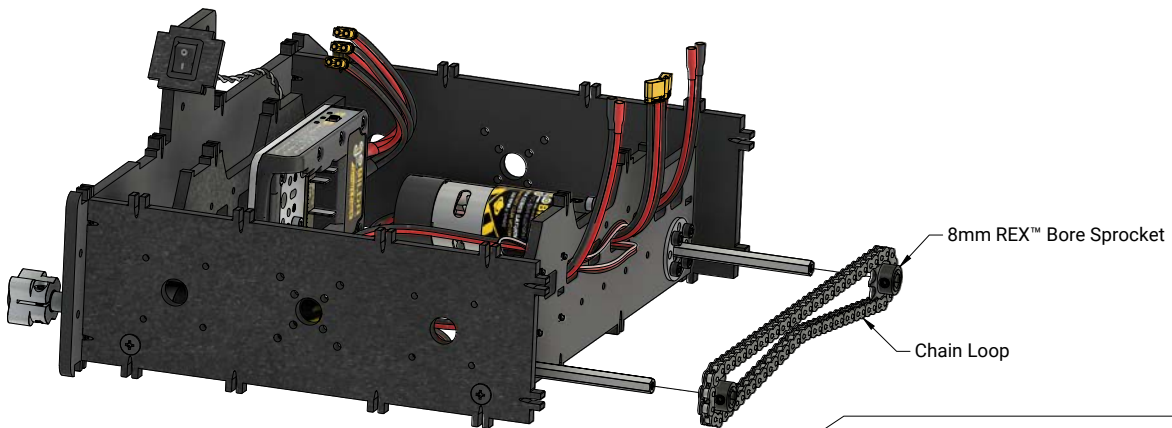
STEP 16:

Add **two** 8mm ID Bearings, **two** 12mm Spacers, **two** 8mm Spacers, and **two** 8mm REX™ Hyper Hubs as shown. Ensure that both shafts and supporting components are all pulled tightly together before tightening the 8mm REX™ Hyper Hubs.

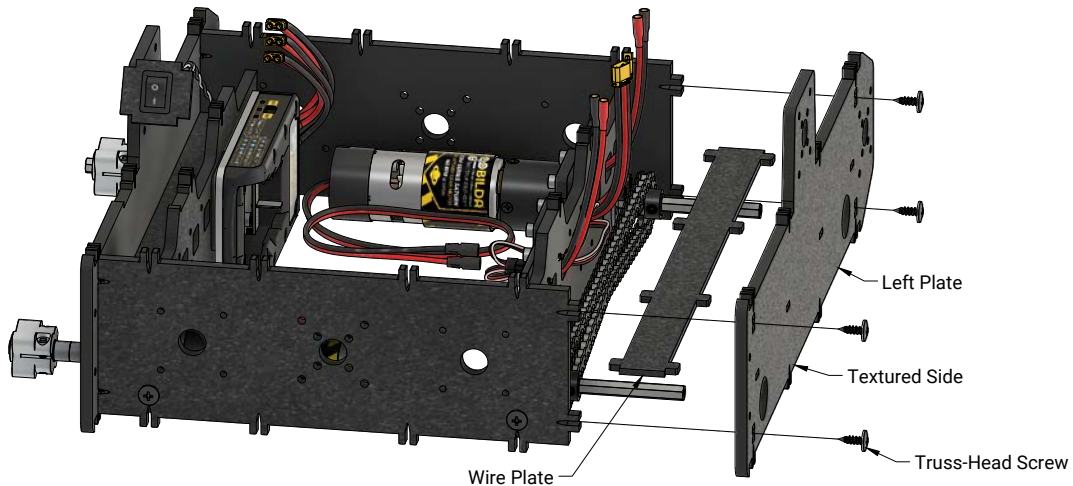




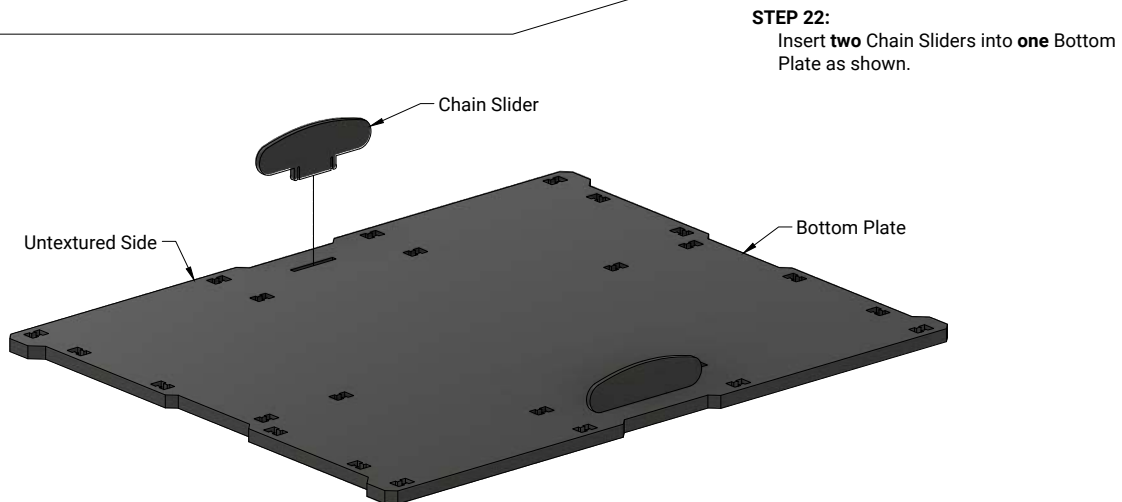
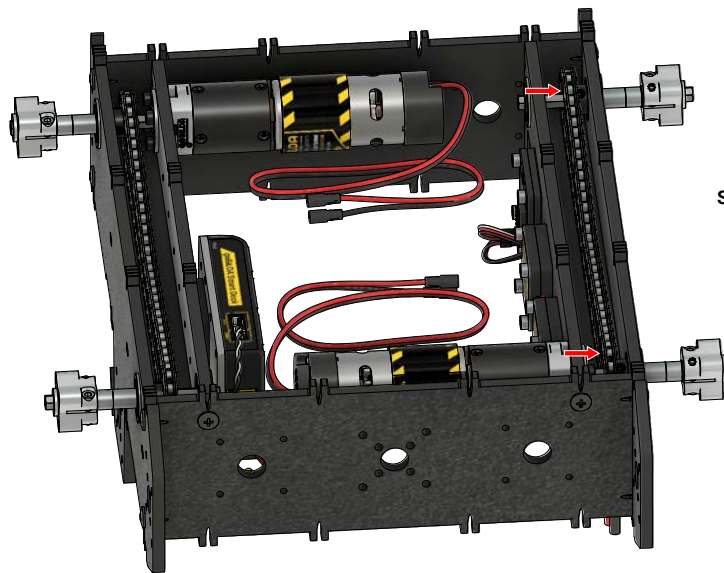
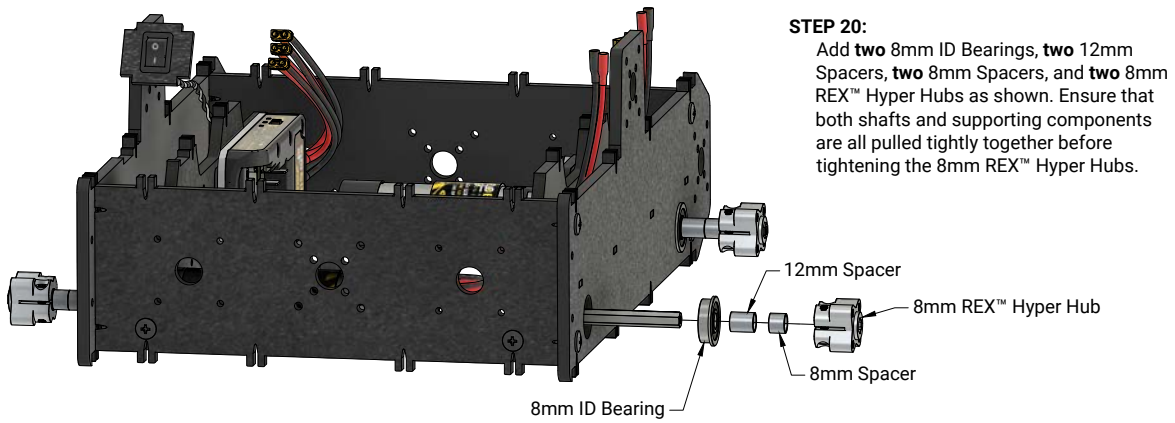
STEP 17:
Pull the 8mm REX™ Bore Sprockets from **STEP 14** tightly against the adjacent 8mm ID Bearings and tighten their set-screws.



STEP 18:
Slide on **two** 8mm REX™ Bore Sprockets and **one** Chain Loop as shown. Leave the set-screws on the 8mm REX™ Bore Sprockets loose.

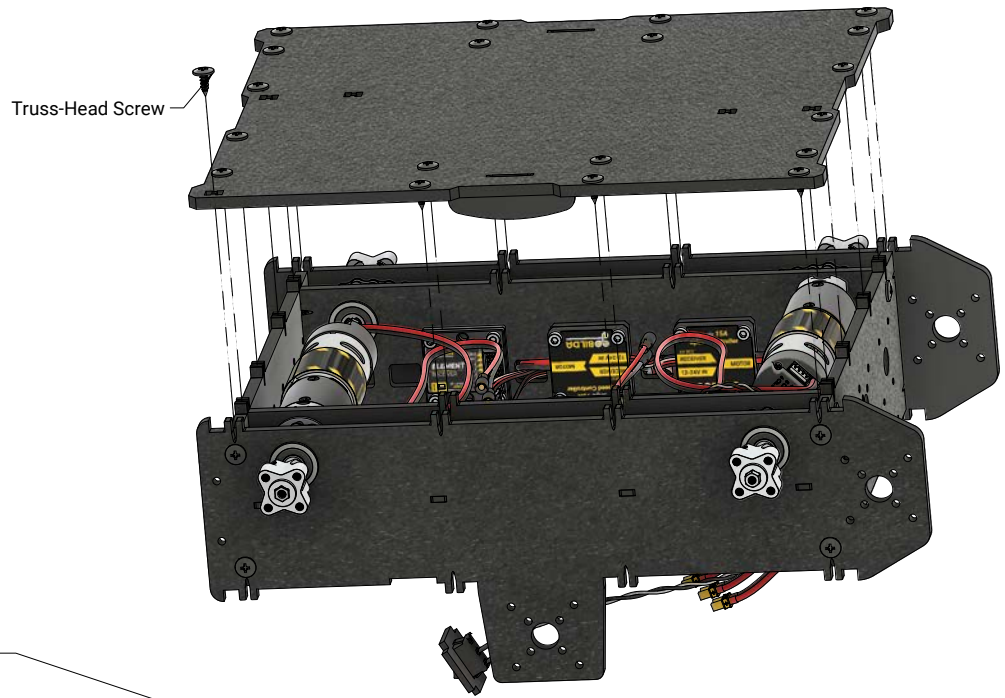


STEP 19:
Use **four** Truss-Head Screws to attach **one** Wire Plate and **one** Left Plate as shown.



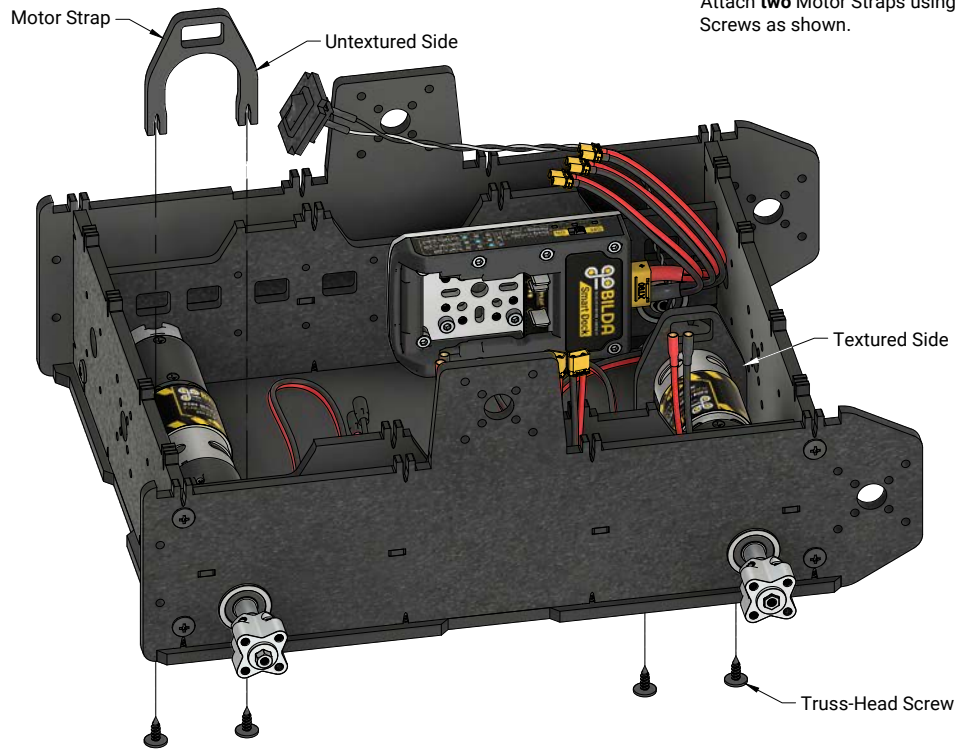
STEP 23:

Attach the subassembly from **STEP 22** to the subassembly from **STEP 21** using **twenty** Truss-Head Screws as shown.



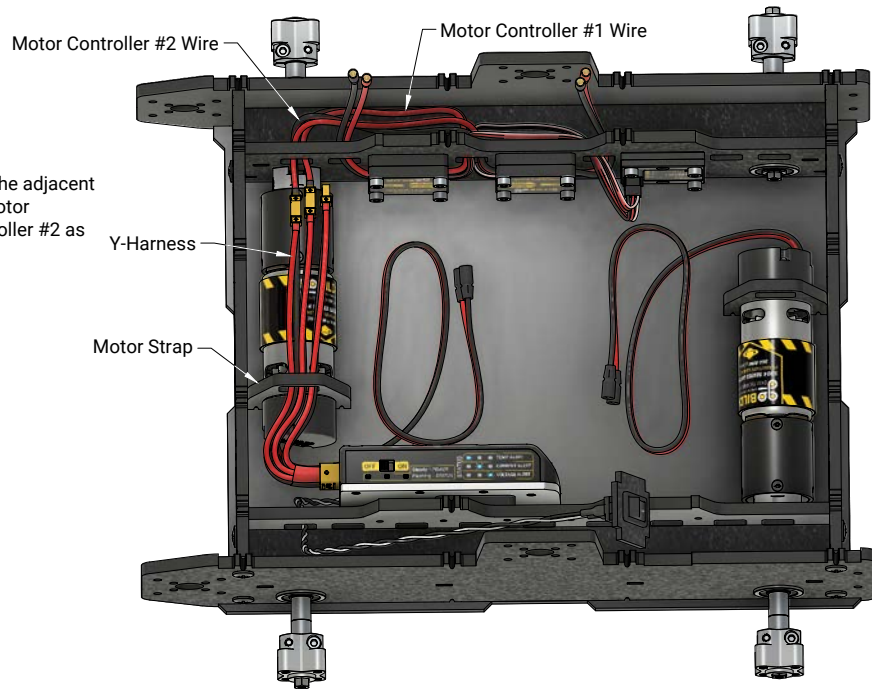
STEP 24:

Attach **two** Motor Straps using **four** Truss-Head Screws as shown.



STEP 25:

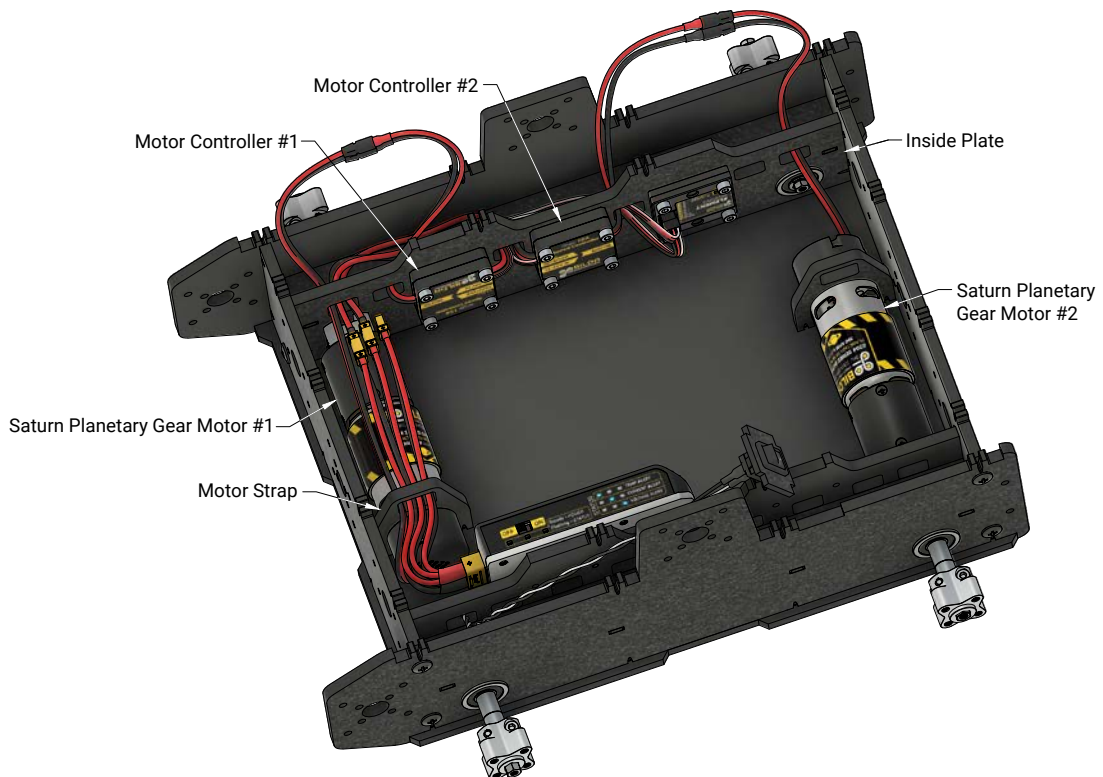
Route the Y-Harness through the adjacent Motor Strap and plug it into Motor Controller #1 and Motor Controller #2 as shown.

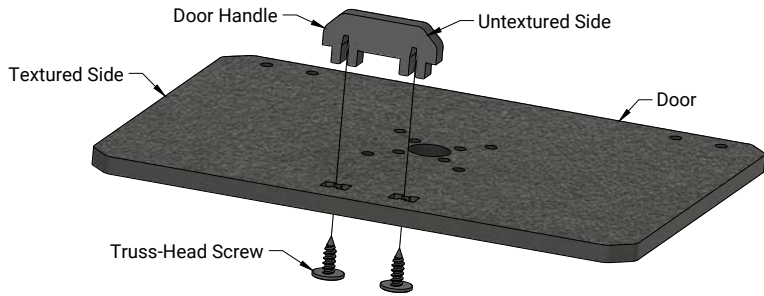


STEP 26:

Route the wire from Saturn Planetary Gear Motor #1 through the adjacent Motor Strap and Inside Plate and plug it into the wires from Motor Controller #1 as shown.

Route the wire from Saturn Planetary Gear Motor #2 through the Inside Plate and into the wires from Motor Controller #2 as shown.



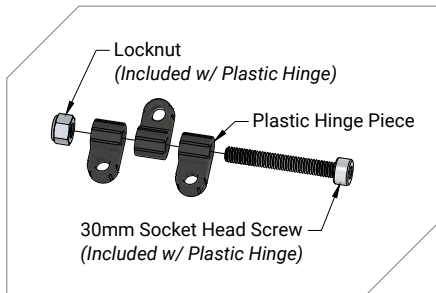


STEP 27:
Use **two** Truss-Head Screws to attach **one** Door Handle to **one** Door as shown.

STEP 28:
Assemble **two** Plastic Hinges (**FIGURE 28-A**) and attach them to the Door using **four** 16mm Socket Head Screws and **four** Locknuts.



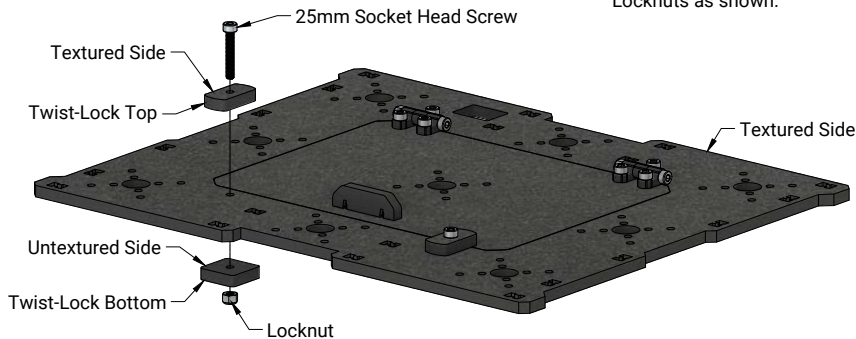
FIGURE 28-A



STEP 29:
Attach **one** Top Plate using **two** 16mm Socket Head Screws and **two** Locknuts as shown.

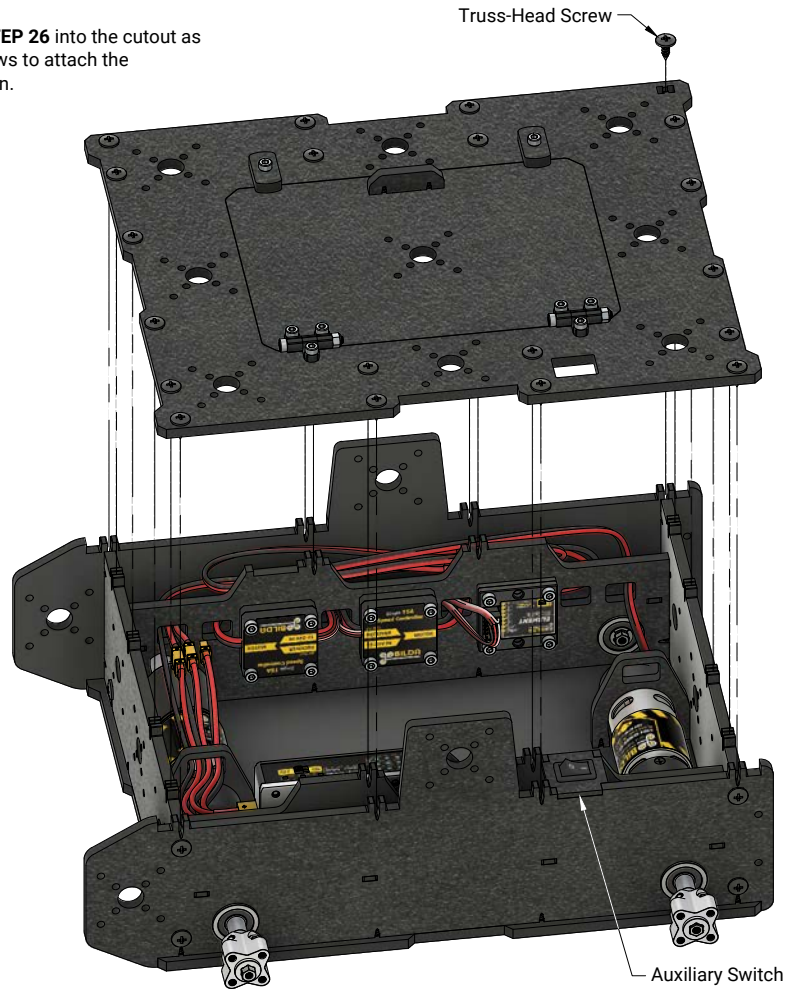


STEP 30:
Attach **two** Twist-Lock Bottoms and **two** Twist-Lock Tops with **two** 25mm Socket Head Screws and **two** Locknuts as shown.



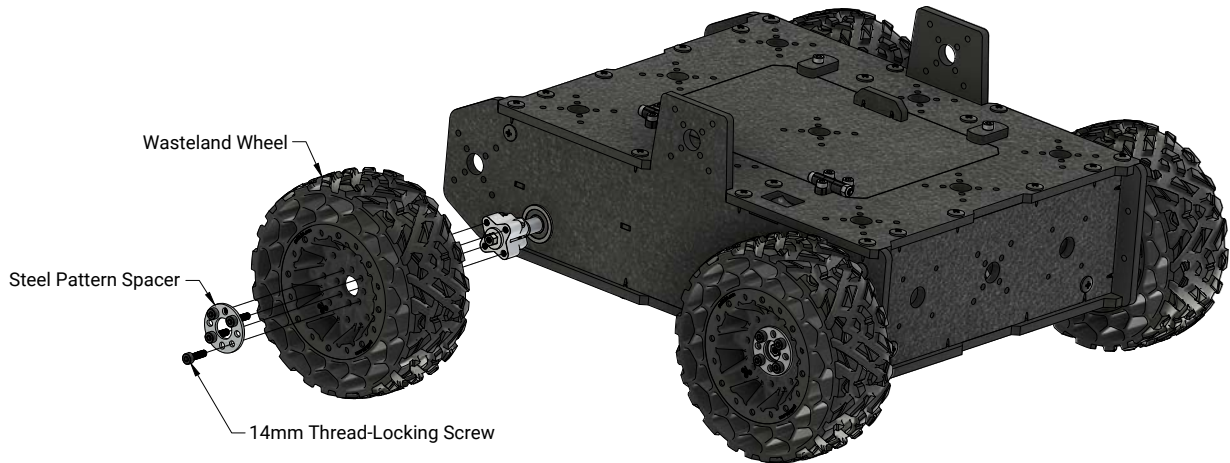
STEP 31:

Position the Auxiliary Switch from **STEP 26** into the cutout as shown. Use **twenty** Truss-Head Screws to attach the subassembly from **STEP 30** as shown.

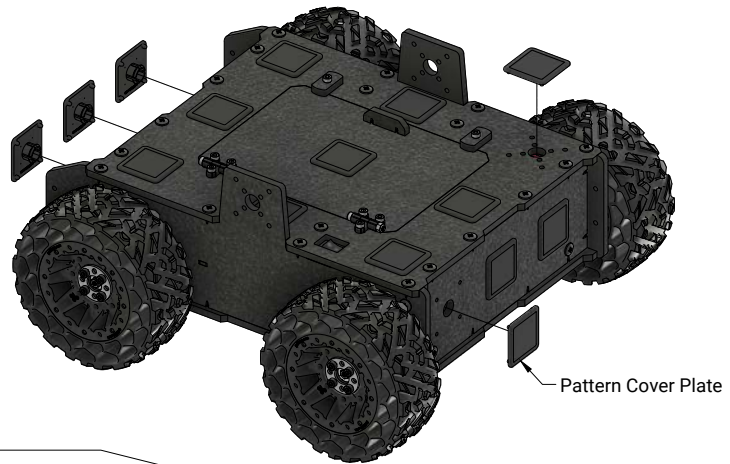


STEP 32:

Use **sixteen** 14mm Socket Head Screws to attach **four** Steel Pattern Spacers and **four** Wasteland Wheels as shown.



STEP 33:
Press **fifteen** Pattern Cover Plates into place as shown.



STEP 34:
Pair the Element-6 Transmitter with the Overlander-4 All-Terrain Robot Platform:

1. Start with the transmitter and receiver powered off.
2. Turn the chassis kit on. The receiver's orange LED will blink slowly.
3. Press and release the Bind button on the receiver with the 2.5mm Ball-End Hex-Plus L-Key. The receiver's orange LED will blink quickly.
4. Ensure the left gimbal on the transmitter is all the way down.
5. Turn on the transmitter.
6. The orange LED on the receiver will stop blinking and turn on solid when paired.

Congratulations!

Your Overlander-4 All-Terrain Robot Platform is now assembled!
Whether it's exploration, customization, or project ideas no one else has dreamed of before,
your new chassis is ready for it all!

