



112r2 Chassis Assembly

Build Guide
(25.05.26.01)

WARNING! DO NOT leave this kit, assembled or unassembled, in a hot motor vehicle or any other high temperature environment. This kit is 3D printed and high temperatures will harm or destroy the components.

ASSEMBLY ORDER

SUB ASSEMBLIES

- ☐ **112r2-210 Front End Kit** (see sub-assembly specific instructions)
- ☐ **112r2-280 Rear Spool Kit** (see sub-assembly specific instructions)
- ☐ **112r2-230 Damper Kit** (see sub-assembly specific instructions)
- ☐ **112r2-330 Pod Kit** (see sub-assembly specific instructions)
- ☐ **112r2-340 Side Arm Kit** (see sub-assembly specific instructions)
- ☐ **112r2 GT12 Chassis Assembly** (THIS DOCUMENT)

CENTER LINK

- ☐ M3x5.5 TB (2) - center link ends
- ☐ M3x10 BH (2) - center link cinch bolts

DAMPER MOUNT

- ☐ M3x16 FH (2) - outer holes for damper
- ☐ M3 NyLoc (2) - outer holes for damper
- ☐ M3x25 FH (1) - center hole in damper mount
- ☐ M3 NyLoc (1) - center hole in damper mount (top)
- ☐ M3x10 FH (2) - damper mount to pod

CHASSIS

REAR PIVOT

- ☐ M3x8 FH (1) - center threaded ball to rear of chassis
- ☐ M3x5.5 TB (1) - chassis center pivot

CENTER POST

- ☐ M3x25 FH (1) - center post to chassis
- ☐ M3 NyLoc (1) - center post (top)

FRONT ARMS

- ☐ M4x12 FH (4) - front arms to chassis

SIDE LINKS

- ☐ M3x16 BH (2) - front of side links to chassis sides
- ☐ M3x5.5 BT (4) - side link ends
- ☐ M3x25 BH (2) - through lower side spindle, through rear of side links, into pod sides

POD to CHASSIS

- ☐ Screw Center Link onto POD and CHASSIS
- ☐ Screw Side Dampers onto POD and CHASSIS

SIDE ARMS

- ☐ M3x16 BH (2) - side arm assembly to chassis

BATTERY TWISTEE ASSEMBLY

- ☐ M3x20 BH (2) (battery twistee assembly)
- ☐ M3 FW (4)
- ☐ M3 NyLoc (2)

FAN & FAN GUARD

- ☐ M3x20 BH (2) - fan guard thru fan to pod
- ☐ M3x8 BH (2) - motor to motor plate
- ☐ M3 FW (2) - motor to motor plate

SERVO & SERVO KEEPER

- ☐ Yeah Racing YE-0030 (not included in kit)
 - ☐ M3x8 BH (2) - servo to servo keeper
 - ☐ M3x10 FH (2) - chassis to servo keeperSmall Zip-Tie - bundle servo wire under servo keeper

BUMPER

- ☐ M3x16 FH (2) - bumper to chassis to bumper keeper

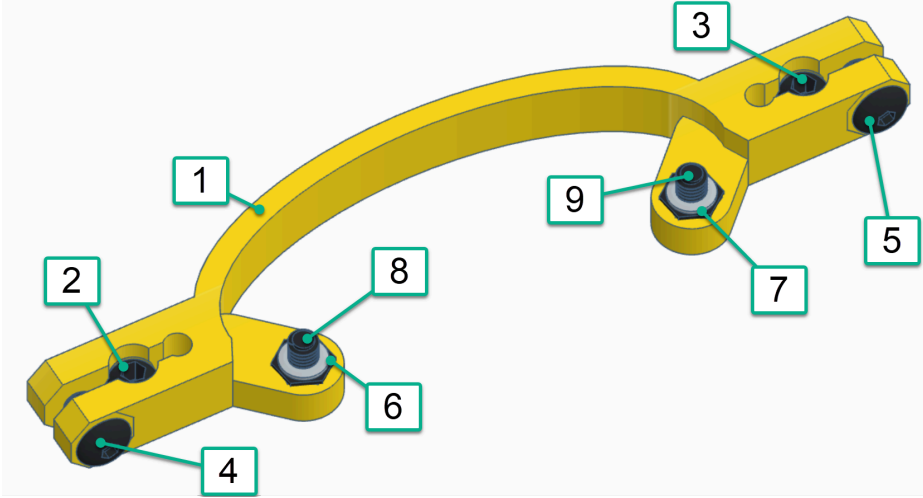
ELECTRONICS TRAY

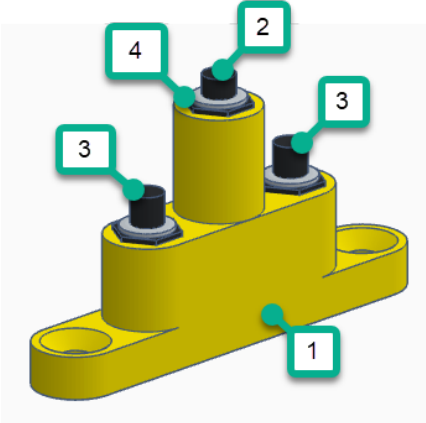
- ☐ M3x6 BH (2) - electronics tray to chassis

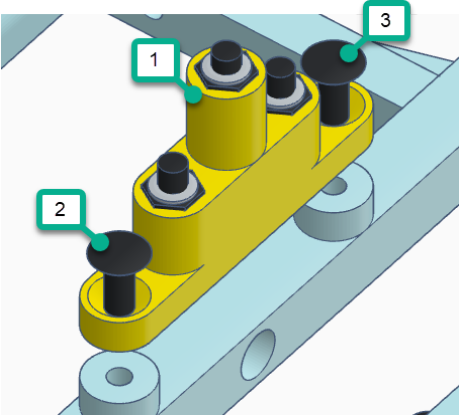
BODY POSTS

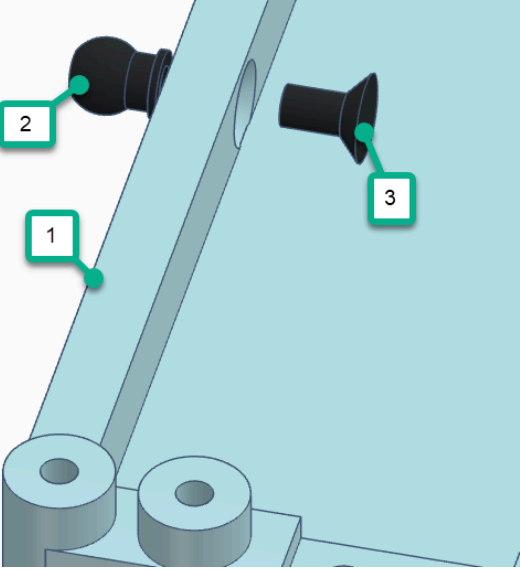
- ☐ M3x12 FH (2) - front body posts to chassis
- ☐ M3x10 BH (2) - body posts to side arms

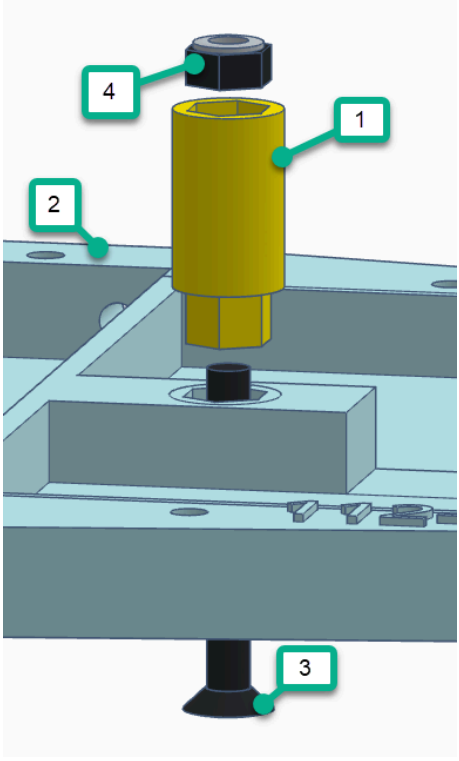
ASSEMBLY INSTRUCTIONS

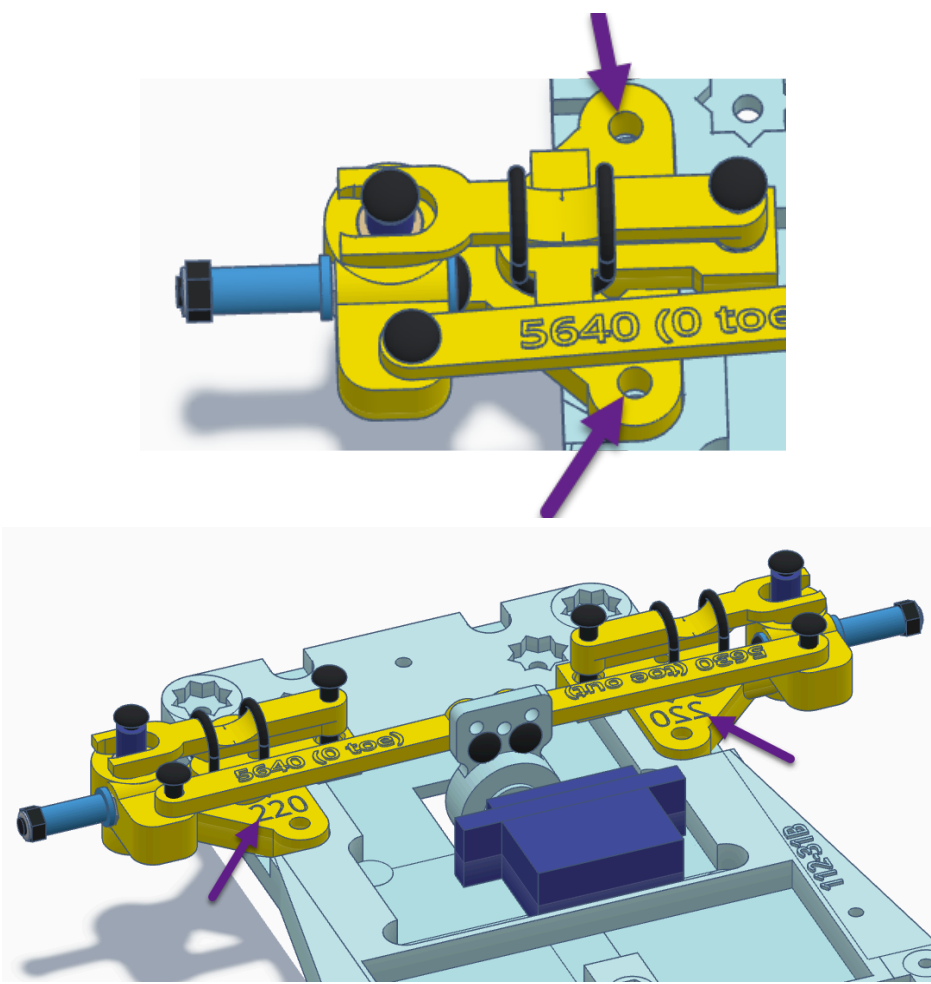
Center Link	
PARTS	1) Center Link 2) M3 x 5.5 TB (2) 3) M3 x 5.5 TB (2) 4) M3x10 BH (2) 5) M3x10 BH (2) 6) M3 NyLoc (Shown but not included nor needed in basic kit) 7) NyLoc (Shown but not included nor needed in basic kit) 8) M3x10 FH (Shown but not included nor needed in basic kit) 9) M3x10 FH (Shown but not included nor needed in basic kit)
Assembly STEPS	
1	Pop a TB (#2 & #3) (Threaded Ball) into each end of Center Link (#1)
	The image shows the top side of the center link, in this view the "NECK" of the balls are downward
2	Insert M3 x 10 BH (#3 & #4) into each end.
	Tighten to just "snug". Ball must remain free to move but with little to no slack

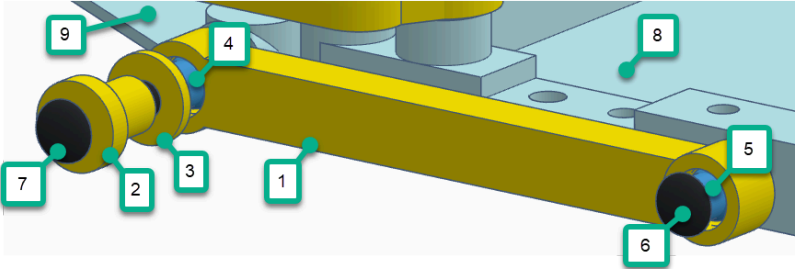
Damper Mount	
PARTS	1) Damper Mount 2) M3 x 25 FH 3) M3 x 16 FH (2) 4) M3 NyLoc (3)
Assembly STEPS	
1	Assemble as shown

Damper Mount to POD	
PARTS	1) Damper Mount Assembly 2) M3x12 FH 3) M3x12 FH 4) Pod (not labeled)
Assembly STEPS	
1	Fasten Damper Mount to POD using FH Screws as shown

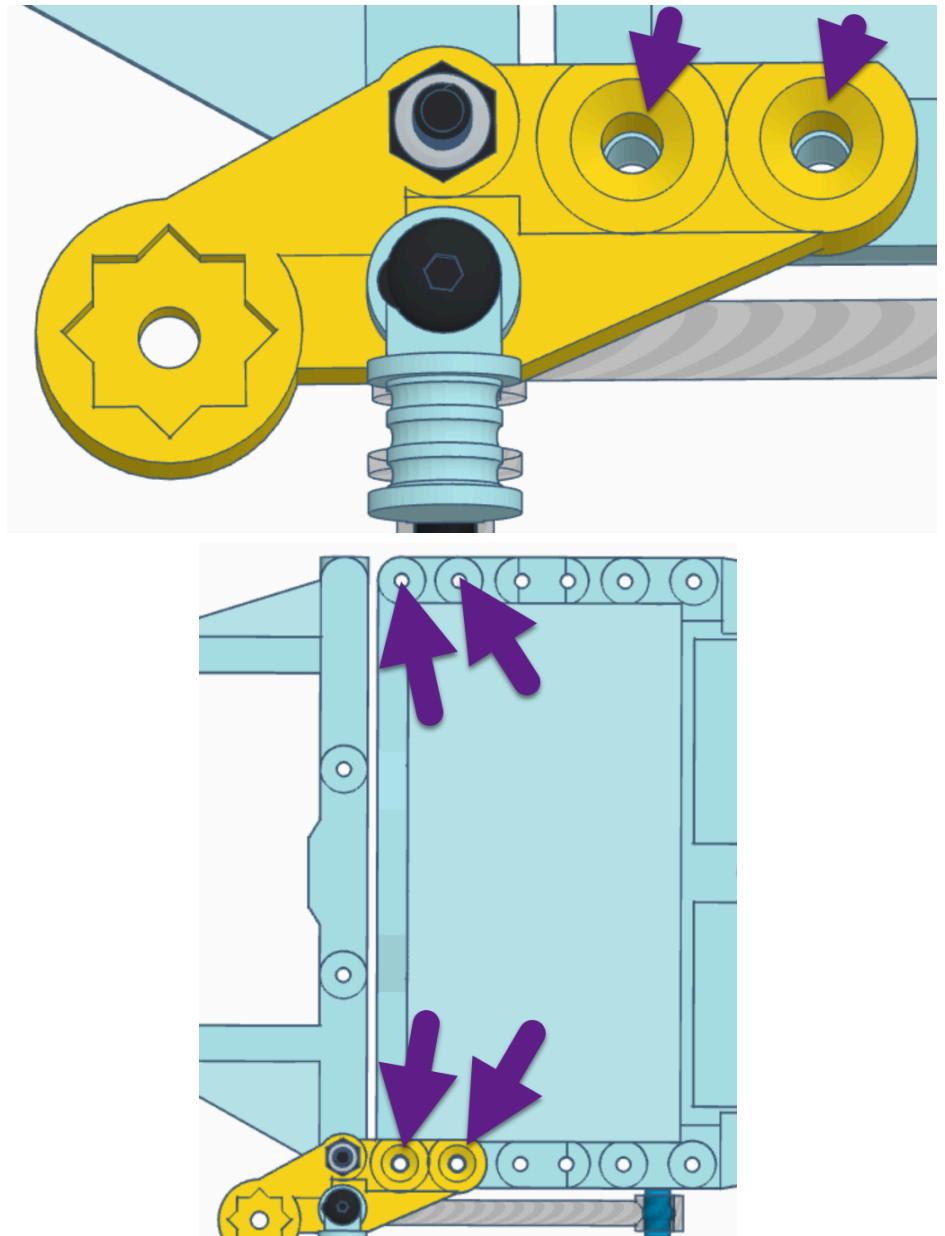
Rear Center Pivot	
PARTS	1) Chassis 2) M3x 5.5 TB 3) M3 x 8 FH
Assembly STEPS	
	☐ Use a dab of blue loctite on threads of the FH screw ☐ Secure TB to Chassis using FH screw as shown

Center Post	
PARTS	1) Center Post 2) Chassis 3) M3 x 25 FH 4) M3 NyLoc
Assembly STEPS	
	☐ Assemble as show

Front Arms to Chassis	
PARTS	1) Front Arm Assembly 2) M4 x 12 FH (4) (not shown)
Assembly STEPS	
	☐ Fasten Front Arm Assemblies to Chassis using M4 FH Screws through bottom of chassis into holes as indicated by arrows ☐ NOTE: the Arm Camber/Caster number is “mirrored” on the right Arm. That's how you know which is Left and which is Right.

Side Link Assembly	
PARTS	1) Side Link 2) Spindle 3) Spindle Washer (3x8x1) 4) Ball Tube 5) Ball Tube 6) M3x16 BH 7) M3x25 BH 8) Chassis 9) Pod
Assembly STEPS	
1	☐ Pop a BT into each end of the Side Links
2	☐ Faster front Side Link to Chassis using M3x16 BH
3	☐ Using M3x25 BH, add a Spindle, Spindle Washer. ☐ Insert through rear Side Link BT into Pod
4	☐ Repeat for both sides
5	COMPLETE Pod to Chassis connection... ☐ Attach the assembled Center Link ☐ Attach the assembled Side Dampers

Side Arm Assembly to Chassis



PARTS

Side Arm Assembly (the 112r2 Side Arm looks a bit different than shown)

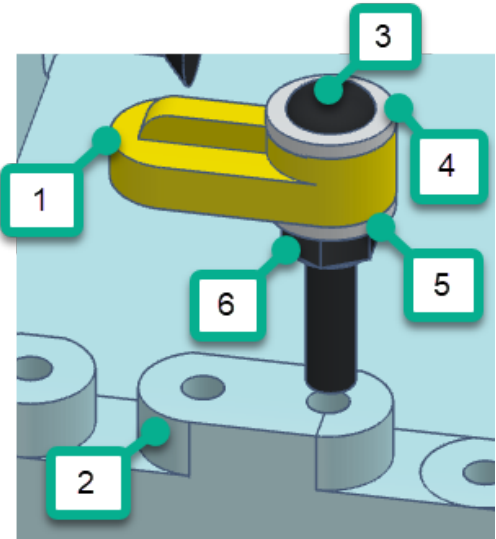
Assembly STEPS

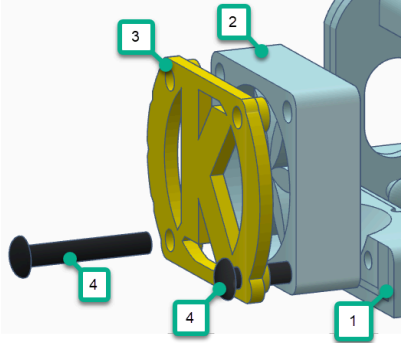
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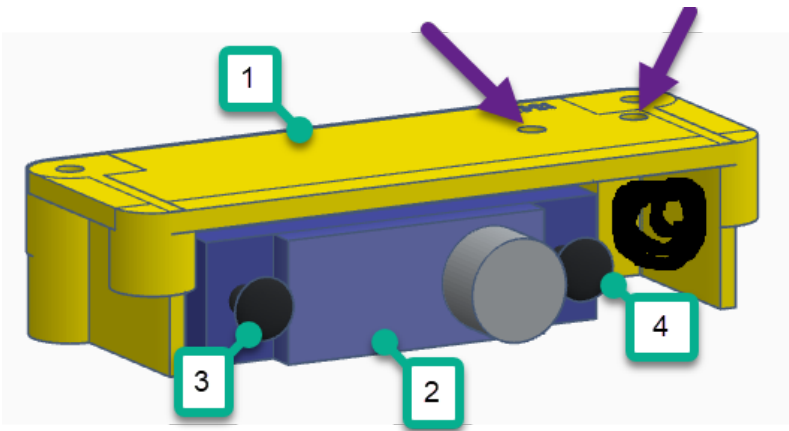
- ☐ Attached RIGHT Side Arm Assembly to Chassis using 2 M3x14 FH Screws. Arrows indicate where the BH screws go.

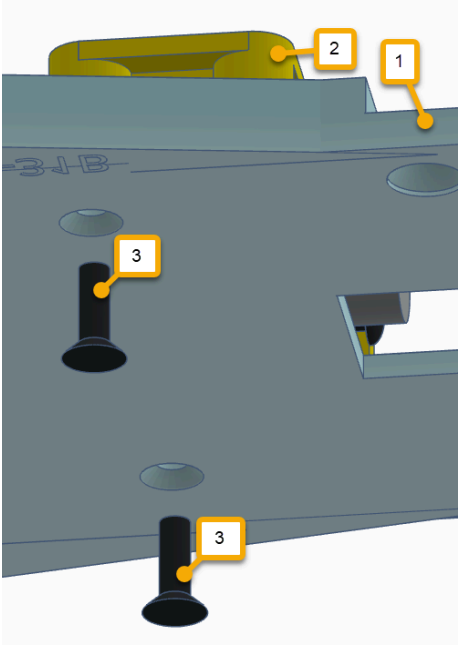
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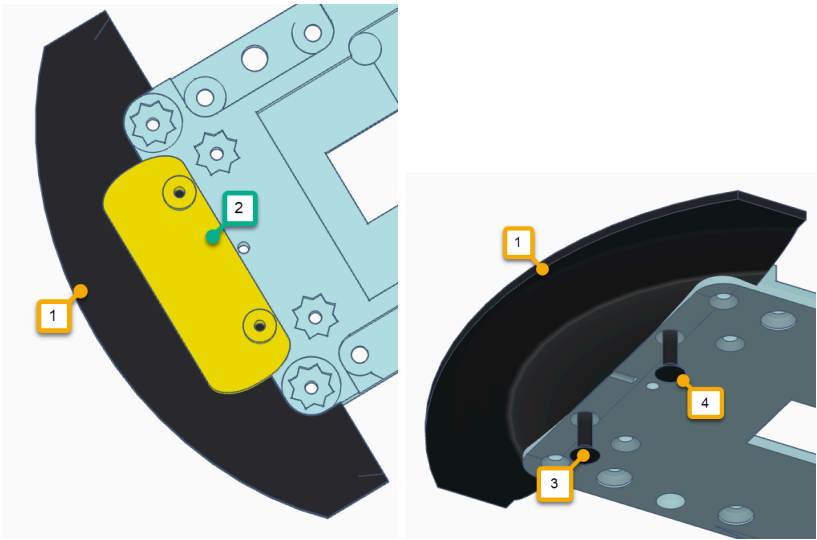
- ☐ Repeat for LEFT side

Battery Twistee	
PARTS	1) Twistee 2) Chassis 3) M3x20 BH 4) M3 FW 5) M3 FW 6) M3 NyLoc
Assembly STEPS	
1	☐ Sandwich the Twistee between two flat washers as shown
2	☐ Tighten NyLoc (#5) to desired twistee “resistance”, DO NOT over tighten ☐ Twistee must be able to turn (be twisted) without causing BH to turn when screwed into chassis

Fan & Fan Guard	
PARTS	1) Pod 2) Fan 3) Fan Guard 4) M3x20 BH (2)
Assembly STEPS	
	☐ Assemble as shown

Servo to Servo Keeper	
PARTS	1) Servo Keeper 2) Servo 3) M3x8 BH 4) M3x8 BH
Assembly STEPS	
1	☐ Fasten Servo to Servo Keeper as shown using 2 M3x8 BH Screws
2	☐ Use the 2 holes indicated by the arrows to bundle excess servo wire in the circled area using zip tie

Servo Keeper to Chassis	
PARTS	1) Chassis 2) Server Keeper Assembly 3) M3x10 FH (2)
Assembly STEPS	
1	☐ Attach assembly to chassis using 2 M3x10 FH screws from bottom of chassis

Bumper & Bumper Keeper	
PARTS	1) Bumper 2) Bumper Keeper 3) M3x16 FH 4) M3x16 FH
Assembly STEPS	
1	☐ Sandwich Bumper between Chassis and Bumper Keeper
2	☐ Fasten using 2 M3x16 FH Screws inserted from bottom of chassis

Electronics Tray to Chassis	(No image)
PARTS	1. Electronics Tray 2. M3x6 BH (2)
Assembly STEPS	
1	☐ Fasten Tray to Chassis using 2 M3x6 BH Screws.

Body Posts to Chassis	(No image)
PARTS	1. Pairs of Body Posts (2) 2. M3x12 FH (2) 3. M3x10 BH (2)
Assembly STEPS	
1	☐ Attached FRONT Body Posts using FH Screws ☐ Attached REAR Body Posts using BH Screws

BODY MOUNTING:

BittyDesign ARES-1 (GT12 Body by Bitty Designs)

Front - top of chassis to top of TPU washer = 32 mm

Rear - top of side arm to top of TPU washer = 34 mm

Body Post Height cutting steps using the Lynxtuff Body Post Trim and Chamfer Tool (sold separately)...

1. Front Posts... Insert flat body clip into 4th hole from bottom and cut body post using the taller of the 2 options on the tool. Yields ~47 mm top of chassis to top of body post measurement.
2. Rear Posts... Insert flat body clip into 4th hole from bottom and cut body post using the taller of the 2 options on the tool. Yields ~47 mm top of side arm to top of body post measurement

BittyDesign BD12-LSM19 (LMP Body by Bitty Designs)

Front - **bottom** of chassis to top of TPU washer = 19 mm

Rear - top of side arm to top of TPU washer = 26 mm

Body Post Height cutting steps using the Lynxtuff Body Post Trimmer and Chamfer Tool (sold separately)...

3. Front Posts... Insert flat body clip into 4th hole from bottom and cut body post using the taller of the 2 options on the tool. Yields ~47 mm top of chassis to top of body post measurement.
4. Rear Posts... Insert flat body clip into 4th hole from bottom and cut body post using the taller of the 2 options on the tool. Yields ~47 mm top of side arm to top of body post measurement

SuperRad SR-06 (LMP Body by SuperRad)

Front - top of chassis to top of TPU washer = 14 mm (use the our LMP TPU bumper with 3 TPU washers on top)

Rear - top of side arm to top of TPU washer = 30 mm

Body Post Height cutting steps using the Lynxtuff Body Post Trimmer and Chamfer Tool (sold separately)...

5. Front Posts... Insert flat body clip into 4th hole from bottom and cut body post using the taller of the 2 options on the tool. Yields ~47 mm top of chassis to top of body post measurement.
6. Rear Posts... Insert flat body clip into 4th hole from bottom and cut body post using the taller of the 2 options on the tool. Yields ~47 mm top of side arm to top of body post measurement