

Needs to be updated for v3 changes

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.

CONTENTS:**PRINTED PARTS**

- ☐ 7-01 Front Top Deck
- ☐ 7-02 Servo Keeper
- ☐ 7-03 Steering Rack
- ☐ 7-07 Front Bulkhead
- ☐ 7-10 Chassis
- ☐ 7-11 Castor Block Pair
- ☐ 7-12 Firewall
- ☐ 7-16 Front Carriers (2)
- ☐ 7-17-00 Rear Bulkheads (2)
- ☐ 7-18 Rear Carrier Pair
- ☐ 7-19 Rear Camber Link Block
- ☐ 7-31 Front Arm Pair
- ☐ 7-32-3 Rear Arm Pair
- ☐ 7-33 12mm Hex Adapters (4)
- ☐ 7-41 Front Shock Tower
- ☐ 7-42 Rear Shock Tower
- ☐ 7-43 Wing Mount
- ☐ 7-44 Front Bumper
- ☐ 7-45 Shock Shaft Ends (4)
- ☐ 7-47 Wing Mount Washer (2)
- ☐ 7-48 Shock Pivot Collar (4)
- ☐ 7-51 Tray
- ☐ 7-51-00 Sub Tray
- ☐ 7-52 Battery Twistee (2)
- ☐ 7-53 Top Brace
- ☐ 203 Transmission Assembly
- ☐ 203-23 Spur Disk Assembly

NON-PRINTED PARTS

- ☐ YR-70 Shocks (Front)
- ☐ YR-80 Shocks (Rear)
- ☐ TRX-2443 Rear Camber Links
- ☐ TRX-2443 Front Camber Links
- ☐ TRX-2445 Front Toe Links
- ☐ TRX-2437 Front Axle Stubs
- ☐ TRX-6843 32P 52T Spur Gear
- ☐ TRX-3950X 32P 20T Pinion Gear
- ☐ AVID 7" Wing
- ☐ Kimbrough #201 Servo Saver

Rear Drive Shafts

- ☐ TRX-9450 Bandit Rear Drive Shaft (2)
- OR**
- ☐ TRX-2753X
 - ☐ TRX-1651
 - ☐ TRX-4628R

HARDWARE KEY

BH = Button Head Screw
FH = Flat Head Screw
CH = Cap Head Screw
FW = Flat Washer
NyLoc = Nylon Locking Hex Nut
SNF=Serrated Hex Nut Flanged
SB = Sleeve Bushing
SP = Steel Pin
TCW = Teflon Coated Washer

HARDWARE

M3 Button Head Screws

- ☐ M3x8 BH (2)
- ☐ M3x10 BH (2)
- ☐ M3x16 BH (14)
- ☐ M3x25 BH (2)
- ☐ M3x30 BH (8)

M3 Flat Head Screws

- ☐ M3x12 FH (5)

M3 Cap Head Screws

- ☐ M3x8 CH (4)
- ☐ M3x10 CH (2)
- ☐ M3x16 CH (4)

M3 Washers & Nuts

- ☐ M3 FW (26)
- ☐ M3 NyLoc (10)

M4 Hardware:

- ☐ M4x10 FH (32)
- ☐ M4x12 FH (2)
- ☐ M4x16 FH (10)
- ☐ M4x20 FH (4)
- ☐ M4x25 FH (8)
- ☐ M4 SNF (4)
- ☐ M4 FW (1)
- ☐ M4 NyLoc (1)

Bearings & More:

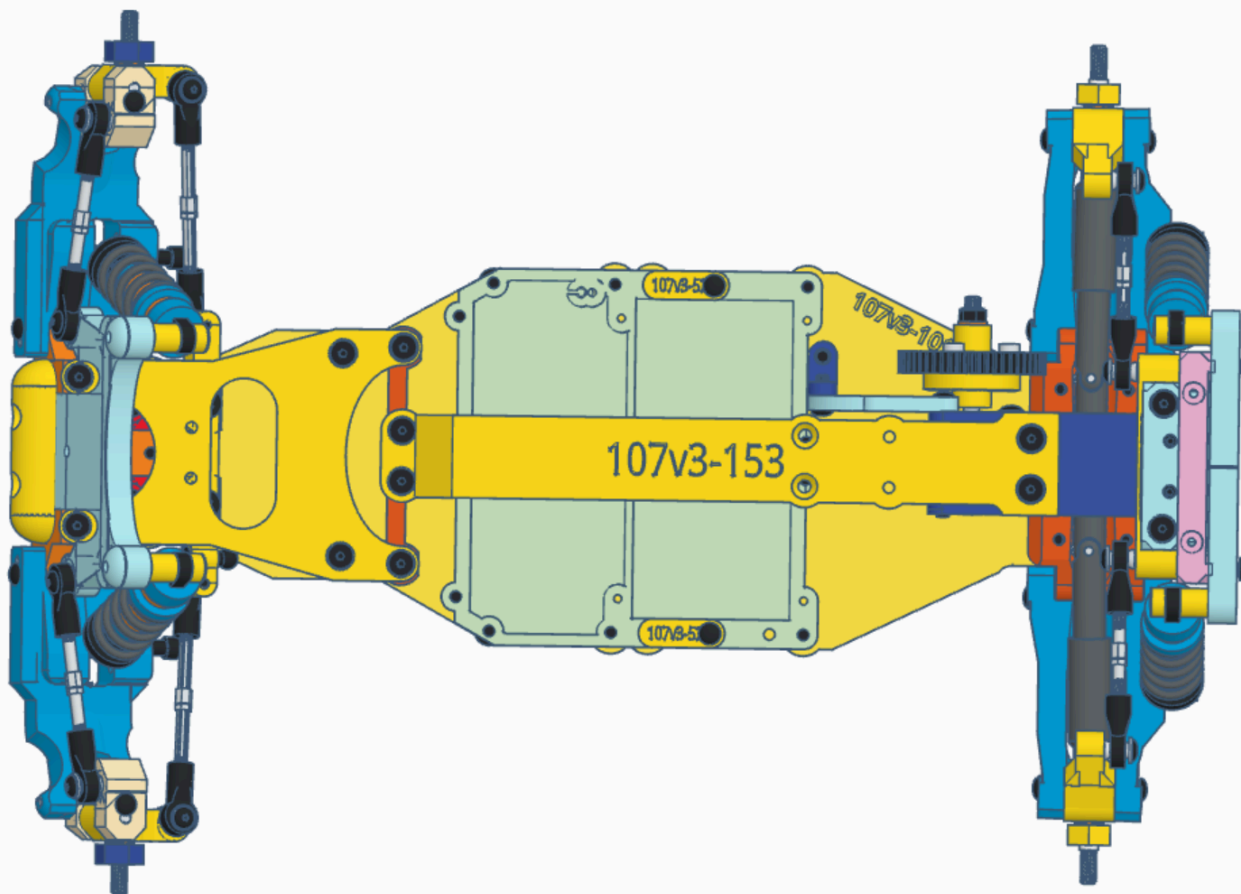
- ☐ 5x9x3 Bearing (8)
- ☐ 4x7x2.5 Bearing (8)
- ☐ M3x25 SP (2)
- ☐ M3x30 SP (4)
- ☐ M3x40 SP (4)
- ☐ M3x5x5 SB (20)
- ☐ 5x8x.5 TCW (4)

REQUIRED to COMPLETE (not included):

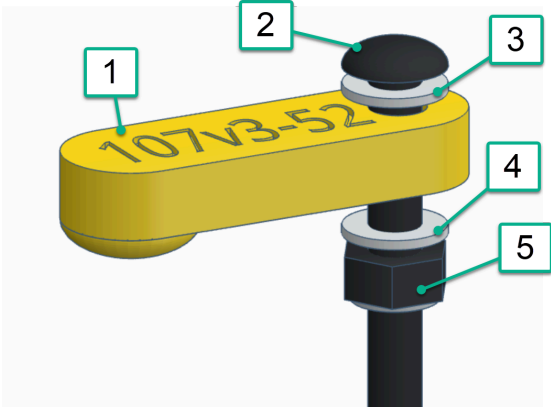
- ☐ Servo
- ☐ JConcepts Yokomo Lexan Body
- ☐ ESC
- ☐ Motor
- ☐ Radio System
- ☐ Wheels
- ☐ Tires

Recommended:

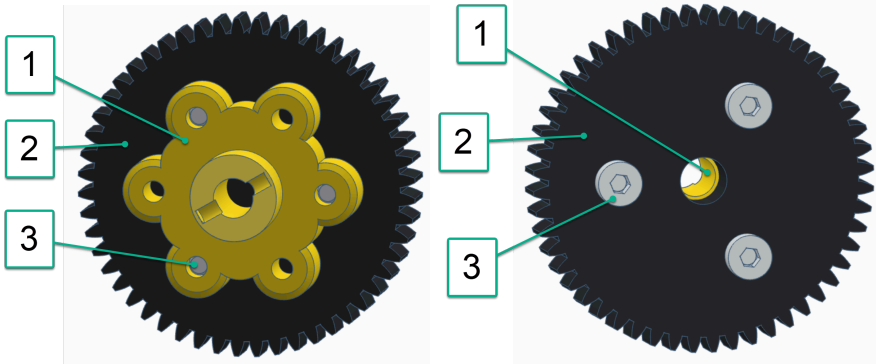
- ☐ **Servo:** Yeah Racing HACKGEAR YE-0033BK
- ☐ **Body:** JConcepts Yokomo
- ☐ **Wing:** AVID 7" Wing | High-Clearance / Low Drag | Standard
- ☐ **ESC/Motor Combo:** HW Justock or XR14 and G4R 21.5
- ☐ **Chassis Protector:** 7-09 Chassis Protector



LET'S Build the Battery Twistee Assemblies...

	Battery Twistee Assembly 
1	Battery Twistee
2	M3x25 BH (for 18 mm to 24 mm thick battery) M3x30 BH (for 25 mm to 28 mm thick battery)
3	M3 FW
4	M3 FW
5	M3 NyLoc (tighten NyLoc so that twistee is snug but still rotates)
6	Repeat steps 1 - 5 for second twistee assembly

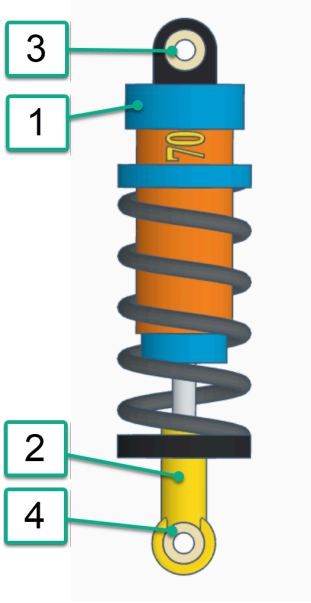
LET'S Build the SPUR Assembly...

	SPUR Assembly 
1	Spur Disk
2	Spur Gear
3	M3x8 CH (3) (attach spur gear to spur disk using 3 M3x8 CH screws as shown) NOTE- Traxxas spur gear should be installed with tooth count visible on the same side as the M3x8 CH screw heads.

LET’S Build the TRANSMISSION ASSEMBLY...

- Please see the 203 Transmission Build Guide and 203 Transmission Parts Guide for detailed instructions on how to build the transmission.
 - You can download these from the Team QIK Racing website... INFORMATION... Build Guides... 203 Transmission.

LET’S Prepare the Shocks...

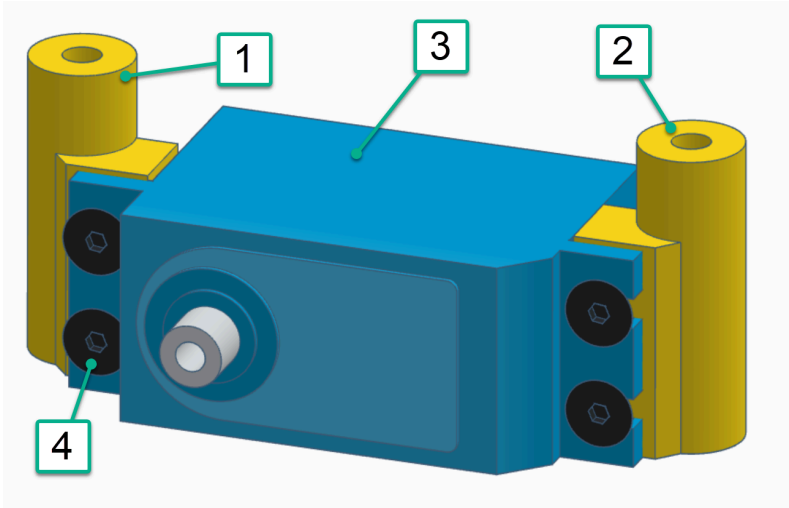
	Front & Shocks  The diagram shows a front shock absorber assembly. It consists of a blue shock body with an orange coil spring. At the top, there is a black plastic cap with a yellow ball tube (callout 3) and a blue QIK shock shaft end (callout 1). At the bottom, there is a yellow QIK shock shaft end (callout 2) and a yellow ball tube (callout 4). The shock body has the number '70' printed on it.
1	Front Shock
2	QIK Shock Shaft End (unthread original and replace with printed part)
3	M3 BT (ball tube) Snap into original plastic cap
4	M3 BT (ball tube) Snap into #2
8	Repeat steps 1-4 for other 3 shocks

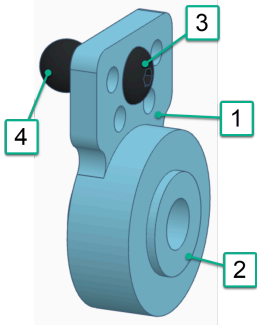
STEPS:

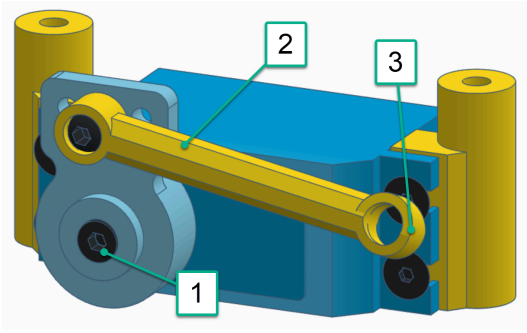
1. Remove the lower shock shaft ends from the shocks
2. Screw a QIK shock shaft end (#2) to each shock shaft
3. Pop Ball Tube (#3 & #4) into shocks

We should add instructions on filling the shocks with oil here.

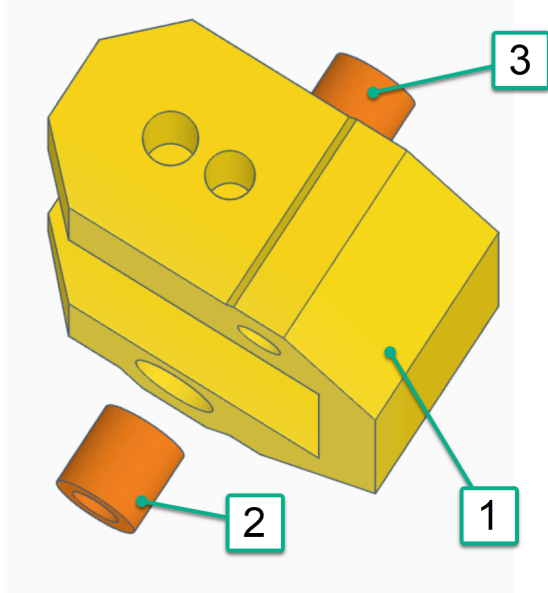
LET’S Build the Servo Assembly...

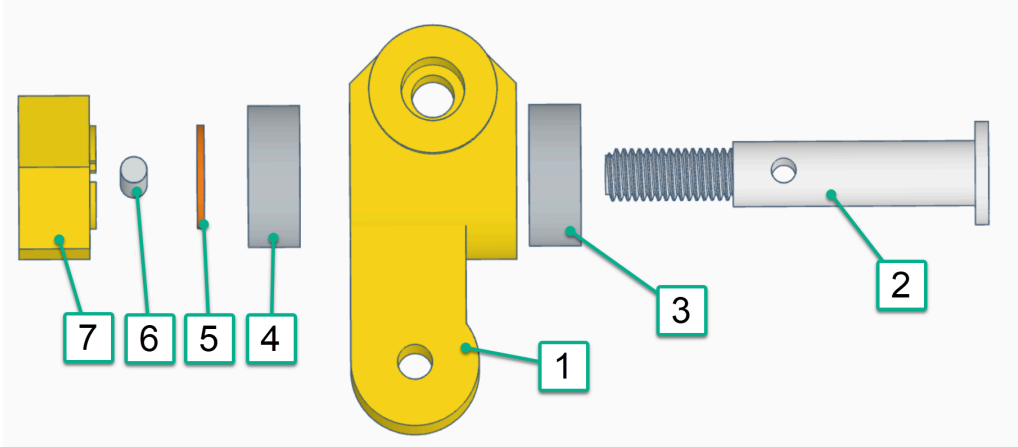
	Servo & Servo Keeper Assembly 
1	Servo Keeper (right side)
2	Servo Keeper (left side)
3	Servo (not included)
4	M3x12 FH (x4)

	Servo Horn Assembly 
1	Servo Saver
2	Servo Spline Insert (25 or "F" for YR servo)
3	M3x6 BH
4	M3x5.5x7 TB

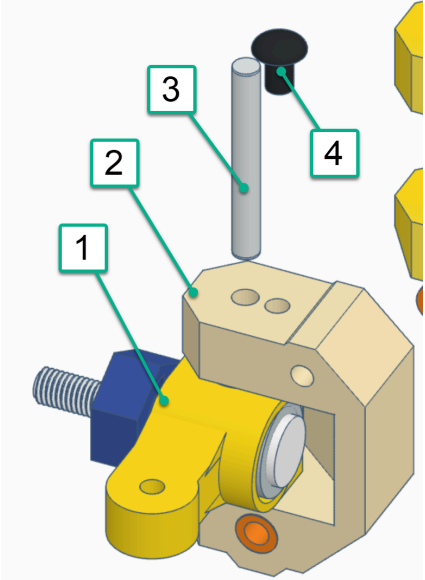
	Servo Horn to Servo 
1	M3x8 CH
2	Steering Link (from Steering Rack)
3	NOTE: this end of the steering link has the twisted edge

LET'S Build the FRONT ASSEMBLY...

	Caster Block Assembly 
1	Caster Block
2	M3x5x5 SB (press SB into Caster Block until flush)
3	M3x5x5 SB (press SB into Caster Block until flush)
4	Repeat steps 1 - 3 for other side

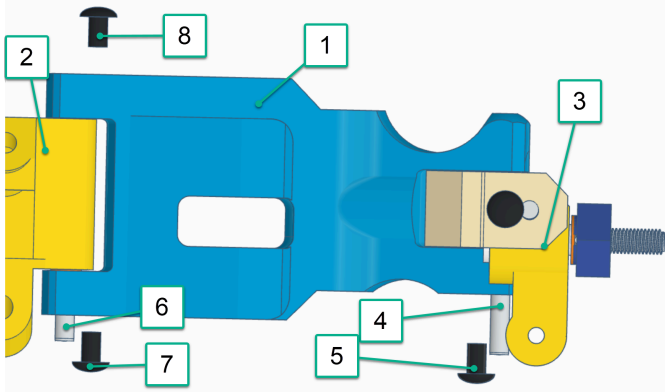
	Front Carrier Assembly 
1	Front Carrier
2	Front Axle Stub
3	5x11x4 Bearing (press bearing into front carrier until flush)
4	5x11x4 Bearing (press bearing into front carrier until flush)
5	TCW
6	Axle Pin

7	Hex Adaptor (press hex adaptor onto axle pin until it snaps into place)
8	M3x5x5 SB (press into top of front carrier) (PIC NEEDS TO BE UPDATED TO SHOW SBs)
9	M3x5x5 SB (press into bottom of front carrier) (PIC NEEDS TO BE UPDATED TO SHOW SBs)
10	Repeat steps 1 - 7 for other side

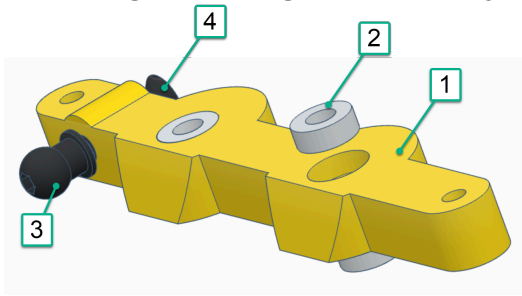
	Caster Block and Front Carrier Assembly 
1	Front Carrier Assembly
2	Caster Block Assembly
3	M3x30 SP (press steel pin into caster block through front carrier until flush)
4	M3x6 BH (captures M3x30 SP)
5	Repeat steps 1 - 4 for other side

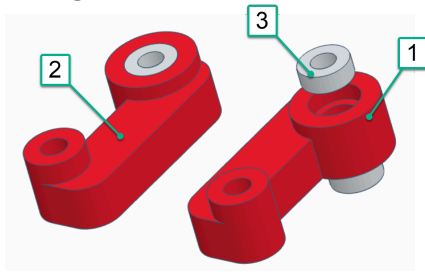
FRONT BULKHEAD ASSEMBLY

M3x5x5 SB (4) (pressed into front and rear of bulkhead on each side)

	Front Arm Assembly 
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1	Front Arm
2	Front Bulkhead Assembly
3	Front Carrier and Caster Block Assembly
4	M3x25 SP
5	M3x6 BH (captures M3x25 SP)
6	M3x40 SP
7	M3x6 BH (captures M3x40 SP)
8	M3x6 BH (captures M3x40 SP)
9	Repeat steps 1 - 8 for other side

	Steering Rack Drag Bar Assembly 
1	7-03-DB Steering Rack Drag Bar
2	4x7x2.5 Bearing (4)
3	M3x5.5x7 TB
4	M3x12 FH

	Steering Rack Bell Crank Assembly 
1	7-03-BC Steering Rack Bell Crank (right side)
2	7-03-BC Steering Rack Bell Crank (left side)
3	4x7x2.5 Bearing (4)

	Steering Rack Assembly
1	7-07 Front Bulkhead
2	7-03-DB Assembly
3	7-03-BC (right) Assembly
4	7-03-BC (left) Assembly
5	7-03-Shim (2)
6	7-03-Shim (2)
7	M4x16 FH (2)
8	M4x20 FH (2)

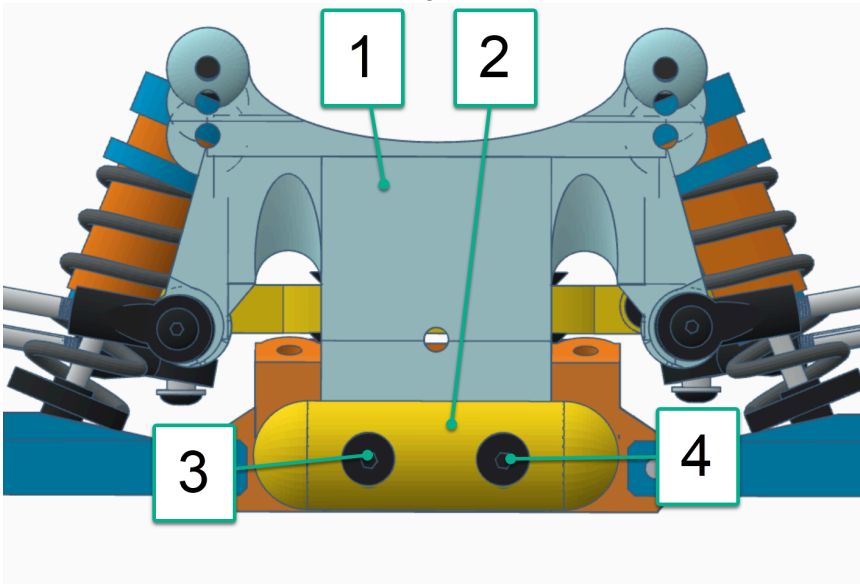
	Front Shocks to Shock Tower Assembly
1	Front Shock Tower
2	Front Shock
3	M3x30 BH
4	M3 FW
5	M3 FW

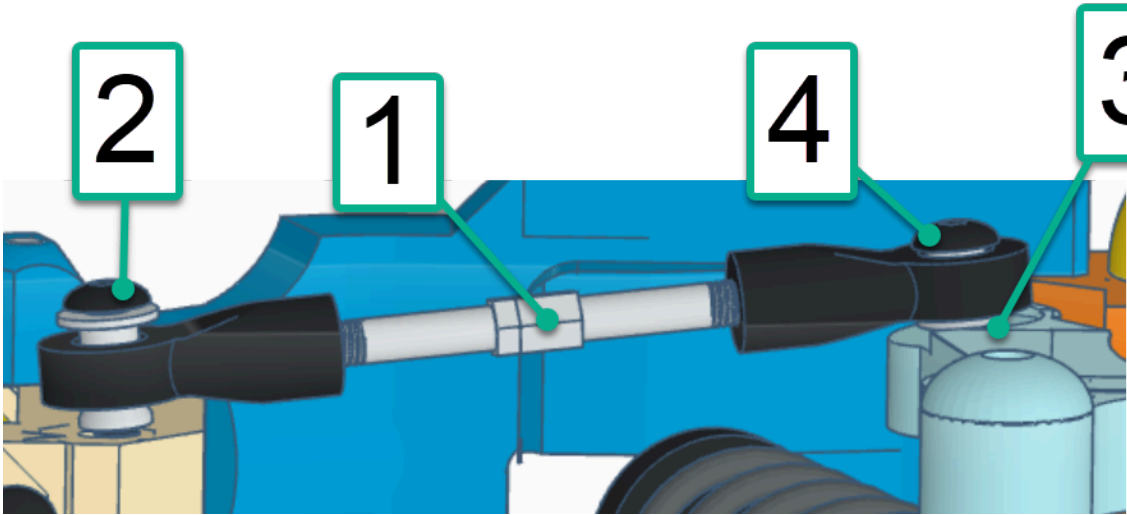
6	M3 NyLoc
7	M3 NyLock
8	Repeat Steps 1-7 for other shock

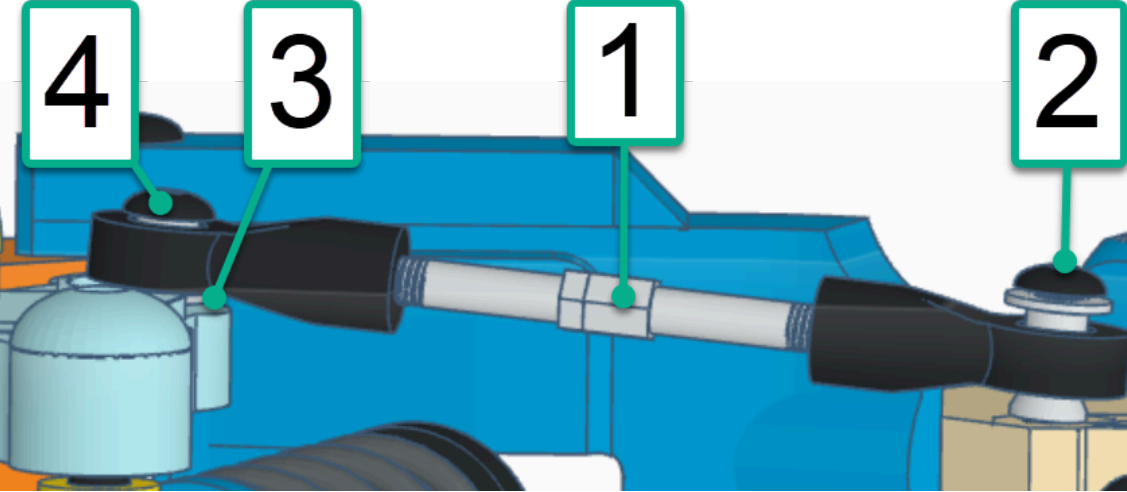
Top Shock Mount components placement order:

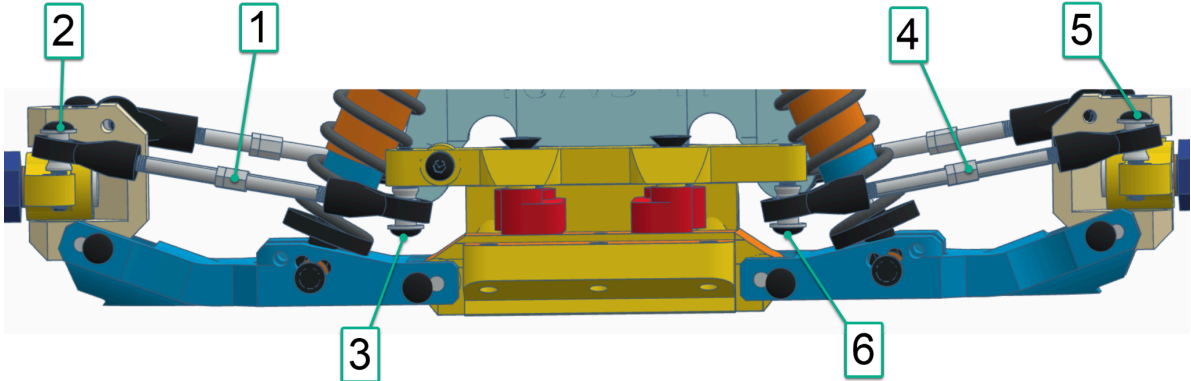
- M3x30 BH (#3)
- M3 FW (#4)
- Shock Tower (#1)
- 7-48 Shock Pivot Spacer (3mm) (not shown)
- M3 FW (#5)
- M3 NyLoc (#6)
- Shock (#2)
- M3 NyLoc (#7)

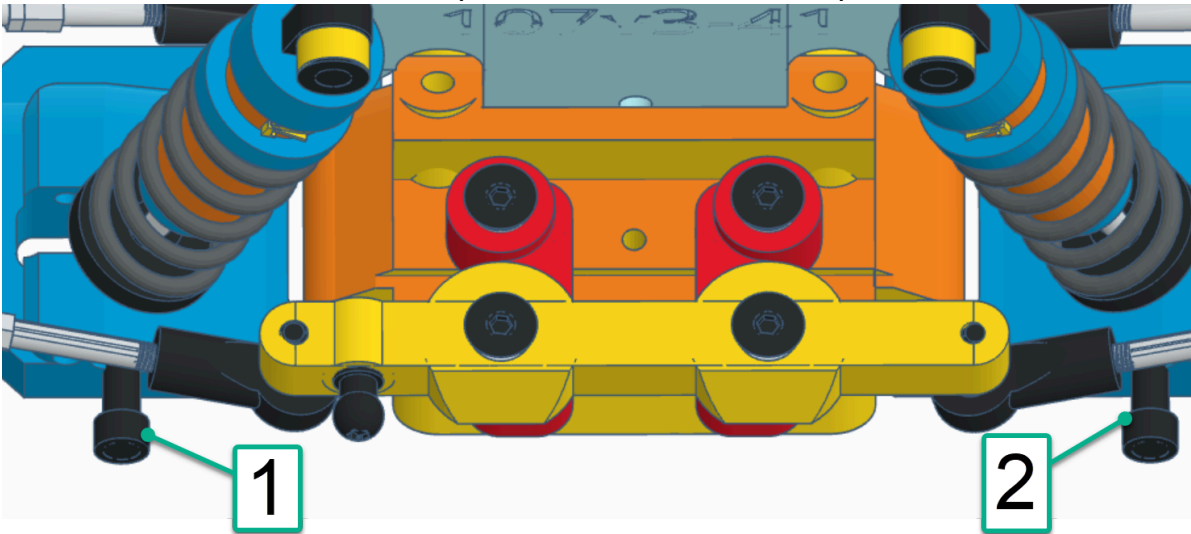
LET'S Build the FRONT ASSEMBLY...

	STEP 1 (shock assembly & bumper to bulkhead) 
1	Shock Tower & Shock Assembly (previously assembled)
2	Front Bumper
3	M4x25 FH (through bumper and shock tower into bulkhead)
4	M4x25 FH (through bumper and shock tower into bulkhead)

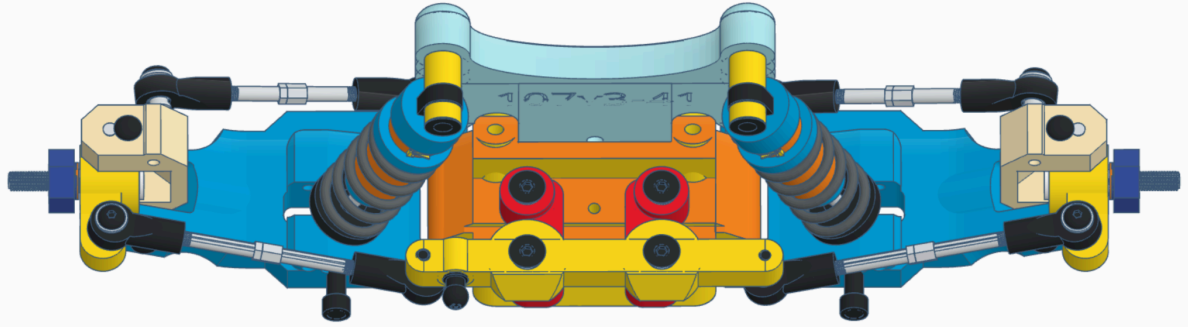
	STEP 2 (left side camber link) 
1	TRX-2443 Front Camber Link (left side) • Pay close attention to orientation of pivot ends and center adjustment groove • (PICTURE NEEDS TO REFLECT NEW LINK ENDS AND ORIENTATION)
2	M3x16 BH (into castor block)
3	N/A
4	M3x16 BH (through tie rod end into bulkhead)

	STEP 3 (right side camber link) 
1	TRX-2443 Front Camber Link (right side) • Pay close attention to orientation of pivot ends and center adjustment groove • (PICTURE NEEDS TO REFLECT NEW LINK ENDS AND ORIENTATION)
2	M3x16 BH (into castor block)
3	N/A
4	M3x16 BH (through tie rod end into bulkhead)

	STEP 4 (left & right toe links) 
1	TRX-2445 Toe Link (left side of buggy) Pay close attention to orientation of pivot ends and center adjustment groove
2	M3x16 BH (into top of front carrier arm)
3	M3x16 BH (through tie rod end into drag bar)
4	TRX-2445 Toe Link (right side of buggy) Pay close attention to orientation of pivot ends and center adjustment groove
5	M3x16 BH (into top of front carrier arm)
6	M3x16 BH (through tie rod end into drag bar)

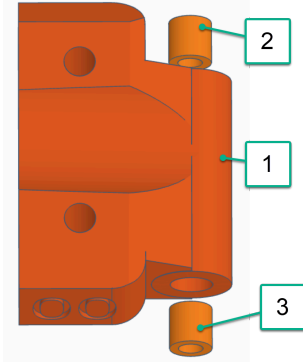
	STEP 5 (lower shock mount screws) 
1	M3x16 CH (through shock bottom into arm) NEEDS UPDATED PICTURE
2	M3x16 CH (through shock bottom into arm)

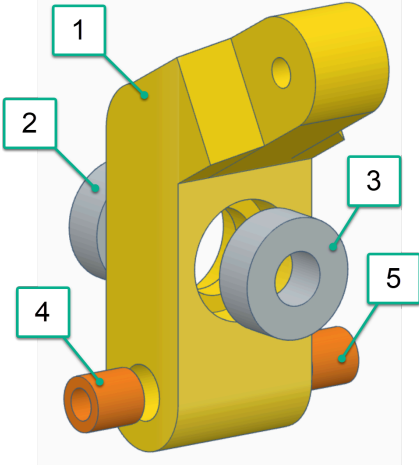
STEP 6 - Completed FRONT ASSEMBLY

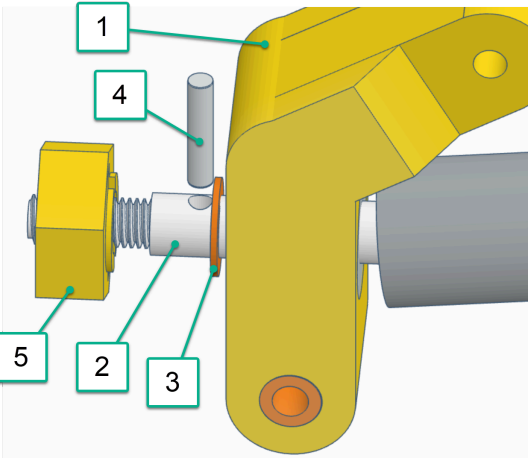


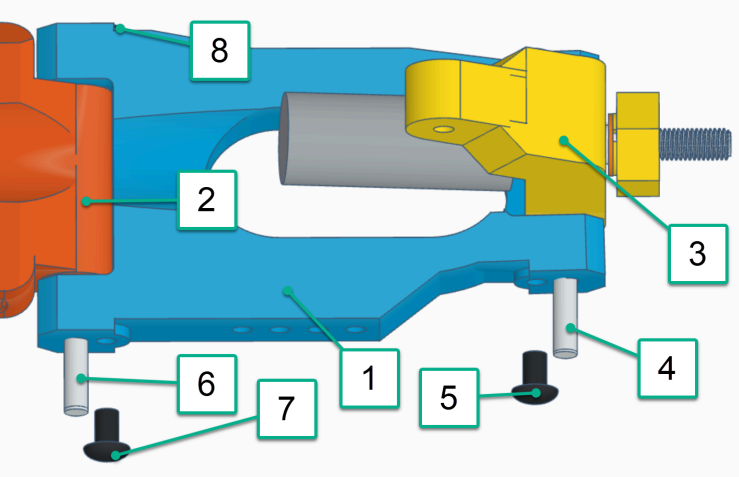
Nothing to do here except make sure everything moves freely.

LET'S Build a few REAR PARTS...

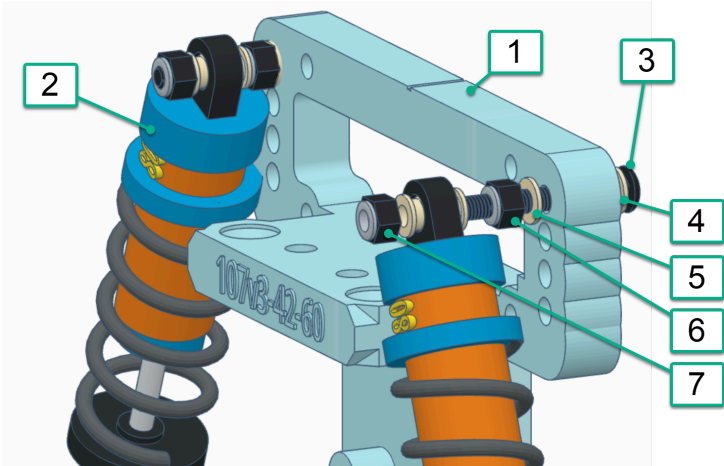
	STEP 1 (Rear Bulkheads) 
1	Rear Bulkhead
2	M3x5x5 SB (pressed into bulkhead)
3	M3x5x5 SB (pressed into bulkhead)
4	Repeat steps 1 - 3 for other side

	STEP 2 (Rear Carrier Assembly) 
1	Rear Carrier
2	5x9x3 Bearing
3	5x9x3 Bearing
4	M3x5x5 SB (pressed into rear carrier)
5	M3x5x5 SB (pressed into rear carrier)
6	Repeat steps 1 - 5 for other side

	STEP 3 (Rear Carrier & Axle Assembly) 
1	Rear Carrier with SBs & Bearings installed
2	Rear Axle Stub
3	TCW
4	Axle Pin
5	Hex Adaptor
6	Repeat steps 1 - 5 for other side

	STEP 4 (Rear Arm Assembly) 
1	Rear Arm (right arm shown)
2	Rear Bulkhead Assembly
3	Rear Carrier & Axle Stub Assembly
4	M3x30 SP
5	M3x6 BH (captures M3x30 SP)
6	M3x40 SP
7	M3x6 BH (captures M3x40 SP)
8	M3x6 BH (not shown, is opposite side of #7. Captures M3x40 SP)

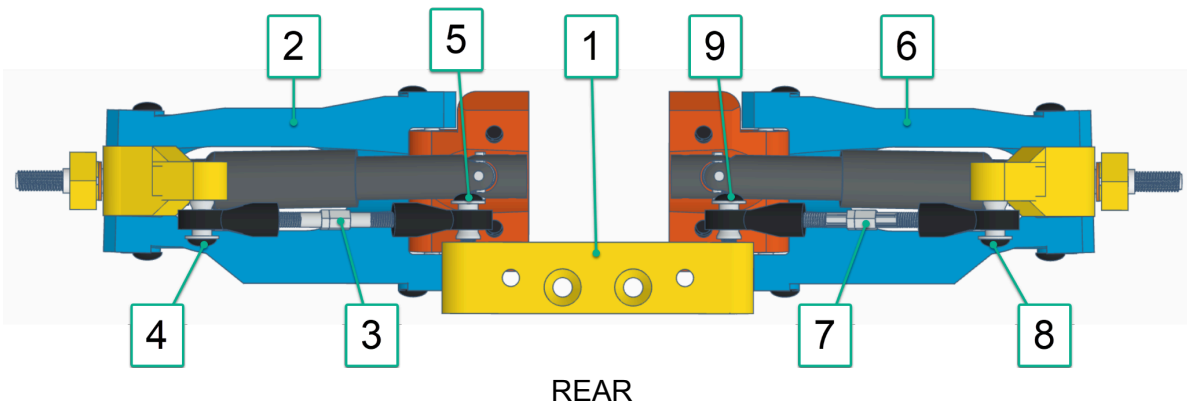
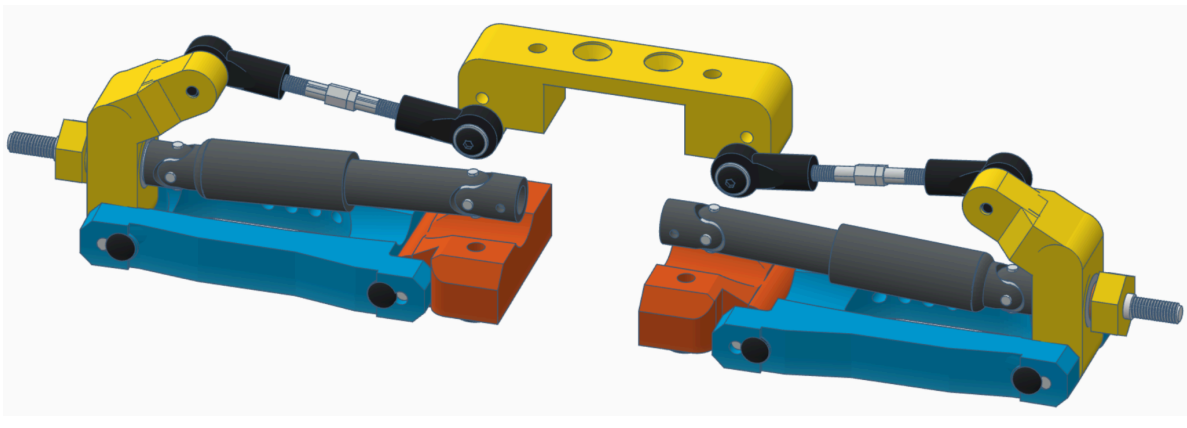
9	M3x6 BH (not shown, is opposite of #5. Captures M3x30 SP)
10	Repeat steps 1 - 9 for other side

	STEP 5 (Rear Shocks to Shock Tower Assembly) 
1	Rear Shock Tower
2	Rear Shock
3	M3x25 BH
4	M3 FW
5	M3 FW
6	M3 NyLoc
7	M3 NyLoc
8	Repeat Steps 1-7 for other shock

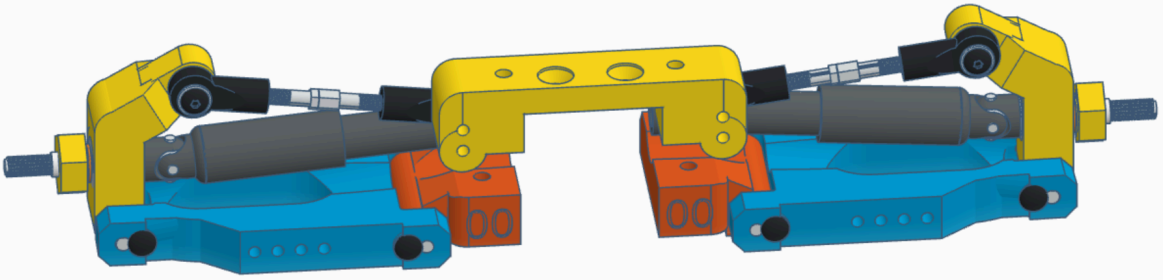
Top Shock Mount components placement order:

- M3x30 BH (#3)
- M3 FW (#4)
- Shock Tower (#1)
- 7-48 Shock Pivot Spacer (3mm) (not shown)
- M3 FW (#5)
- M3 NyLoc (#6)
- Shock (#2)
- M3 NyLoc (#7)

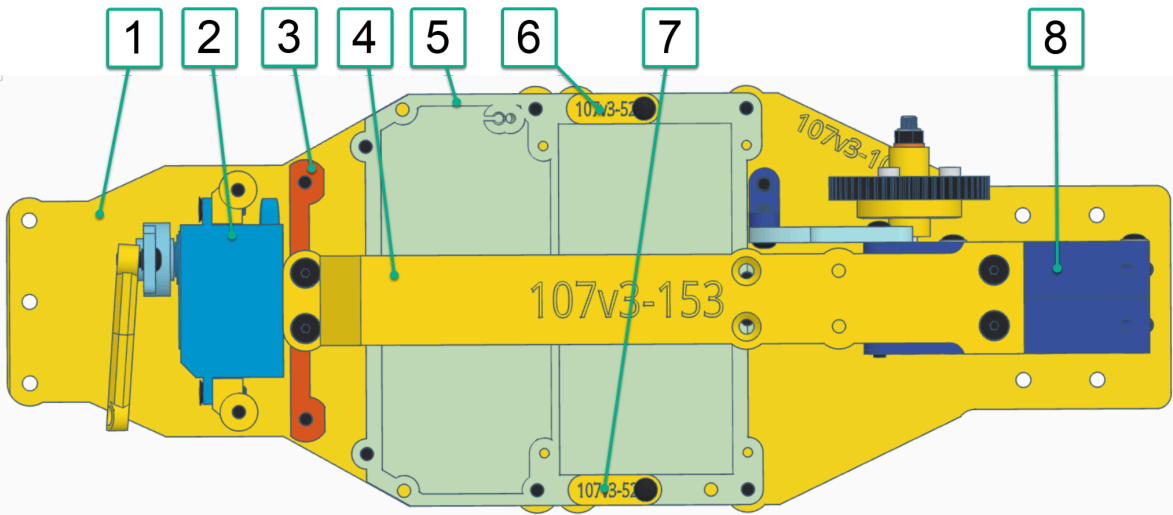
LET'S Build the REAR ASSEMBLY...

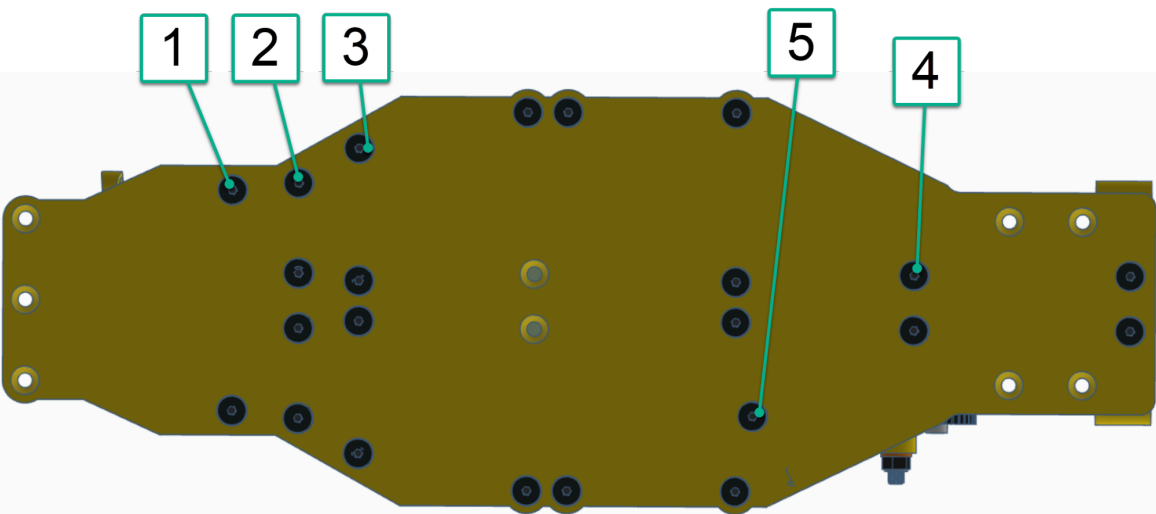
	Rear Assembly STEP 1.1 FRONT  REAR
1	Rear Camber Link Block (bevel should face forward to allow clearance for transmission)
2	Left Arm Assembly
3	TRX-2443 Left Rear Camber Link (note orientation of pivot ends and center notch)
4	M3x16 BH
5	M3x16 BH
6	Right Arm Assembly
7	TRX-2433 Right Rear Camber Link (note orientation of pivot ends and center notch)
8	M3x16 BH
9	M3x16 BH
	(assembled front view) 

(assembled rear view)

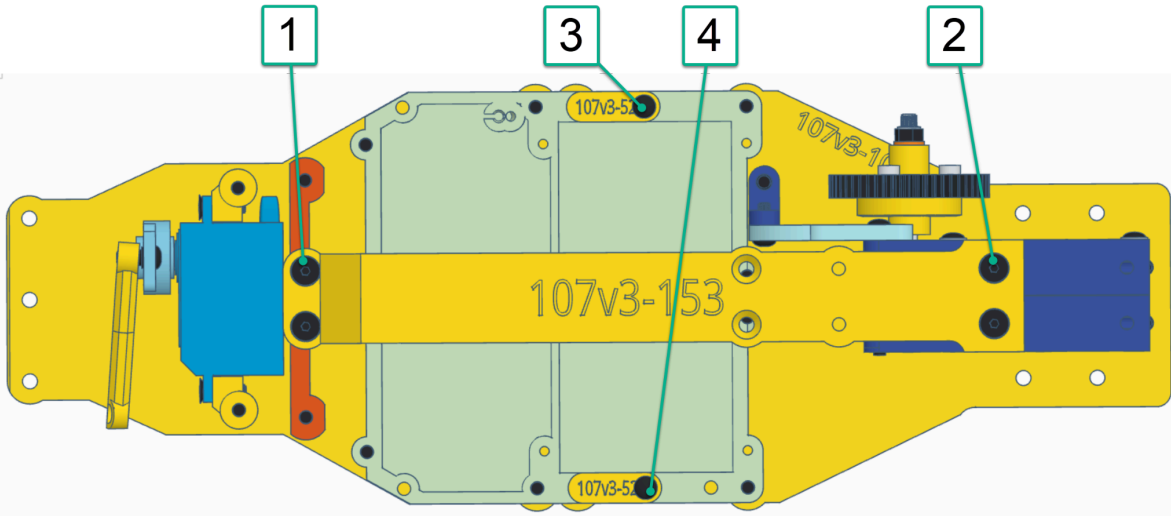


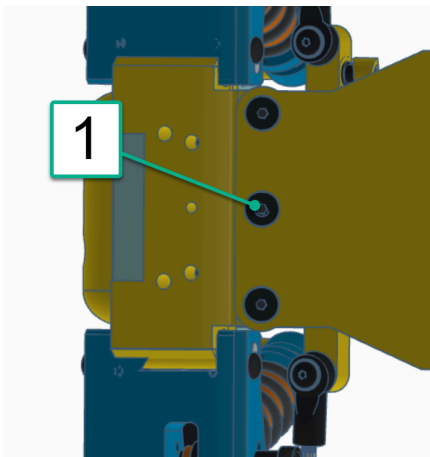
LET’S start the CHASSIS BUILD...

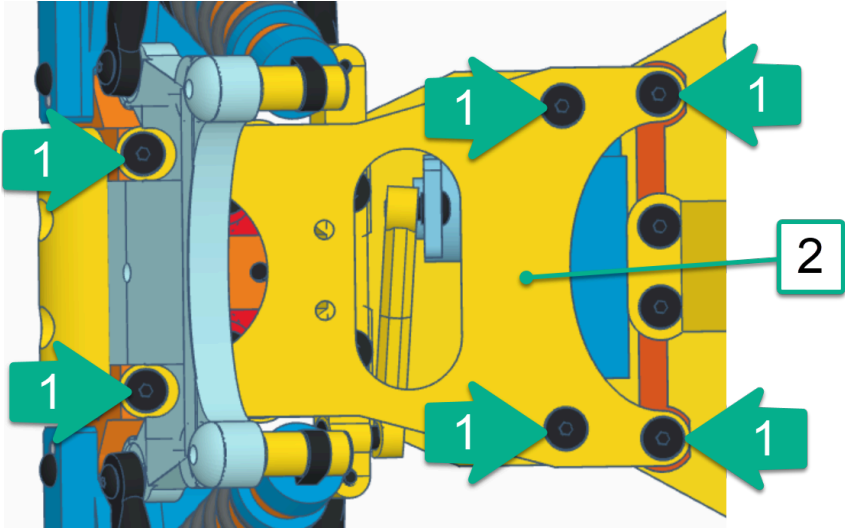
	STEP 1.1  The diagram shows a yellow chassis assembly with various components highlighted in different colors. Callout 1 points to the main yellow chassis body. Callout 2 points to a blue servo assembly. Callout 3 points to a red firewall. Callout 4 points to a yellow top brace. Callout 5 points to a green tray. Callout 6 points to a yellow battery twistee assembly on the top. Callout 7 points to a yellow battery twistee assembly on the bottom. Callout 8 points to a blue transmission assembly on the right side. The text '107v3-153' is visible on the chassis body.
	IDENTIFY PARTS AND ASSEMBLIES
1	Chassis
2	Servo Assembly
3	Firewall
4	Top Brace
5	Tray
6	Battery Twistee Assembly
7	Battery Twistee Assembly
8	Transmission Assembly

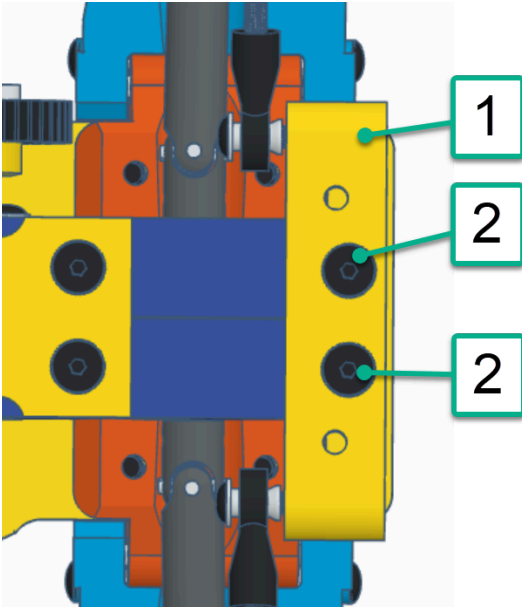
	STEP 1.2  The diagram shows the underside of the chassis assembly. Callout 1 points to a hole for an M4x10 FH screw. Callout 2 points to another hole for an M4x10 FH screw. Callout 3 points to a hole for an M4x10 FH screw. Callout 4 points to a hole for an M4x10 FH screw. Callout 5 points to a hole for an M4x10 FH screw. The text '107v3-153' is visible on the chassis body.
1	M4x10 FH (2) Fasten the Servo Assembly
2	M4x10 FH (4) Fasten the Firewall

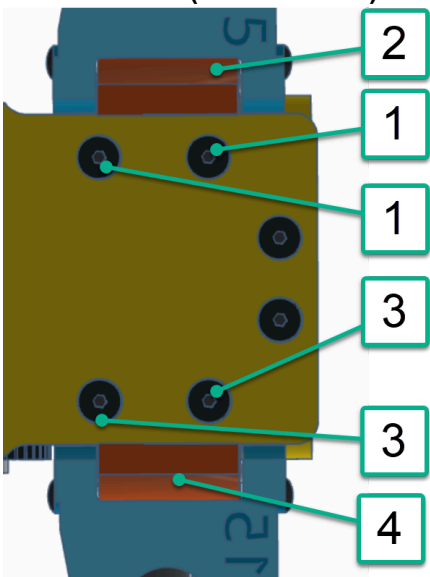
3	M4x10 FH (12) Fasten the Tray
4	M4x10 FH (4) Fasten the Transmission Assembly
5	M4x10 FH (1) Fasten the Motor Plate Stabilizer

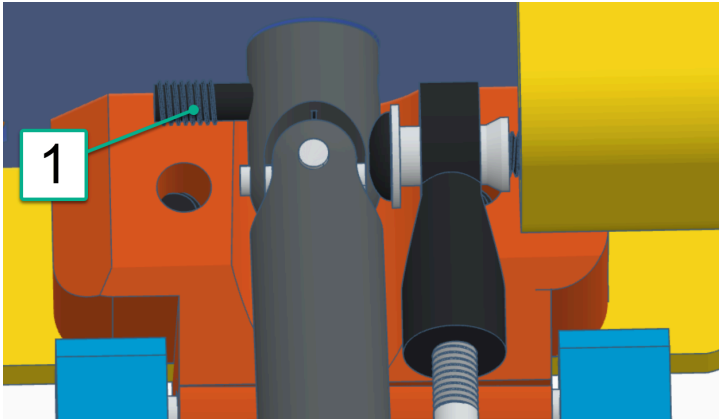
	STEP 1.3 
1	M4x20 FH (2) Fasten the front of the Top Brace to the firewall
2	M4x12 FH (2) Fasten the rear of the Top Brace to the transmission
3	Fasten a Battery Twistee Assembly to the Tray (adjust to match your battery thickness)
4	Fasten a Battery Twistee Assembly to the Tray (adjust to match your battery thickness)
3 & 4	NOTE: DO NOT “squeeze” the battery, allow the twistee to nearly touch the battery

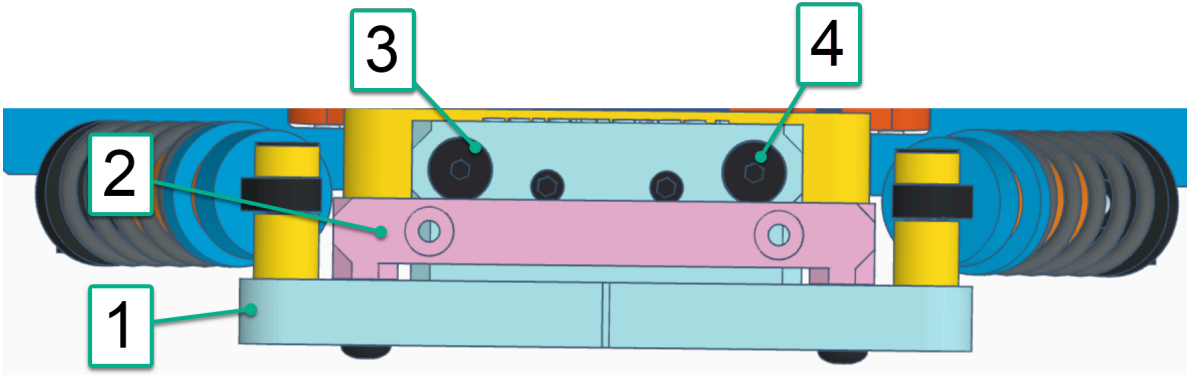
	STEP 2.1 
1	M4x10 FH (3) Fasten the bottom of the Front Assembly to the chassis

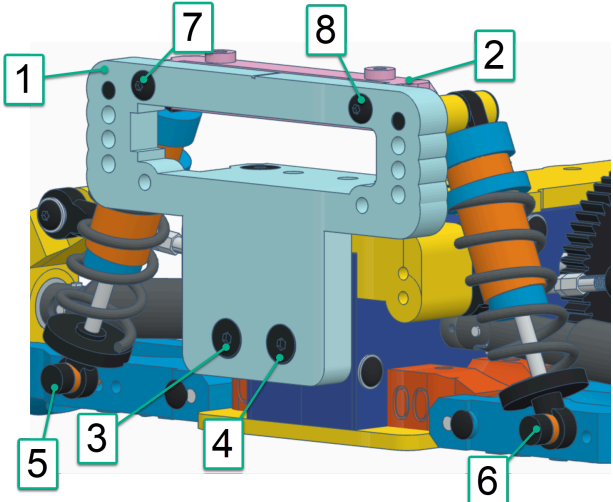
	STEP 2.2 
1	M4x10 FH (6) Fasten the Top Deck to the Front Assembly, Servo Assembly, & Firewall
2	TOP DECK (identified)
3	Snap twisted end of steering link onto ball stud on steering rack (NEEDS LABEL IN PICTURE)

	STEP 3.1 (top view) 
1	Rear Camber Link Block (already assembled with the rear assembly)
2	M4x16 FH (2) Fasten the Rear Camber Link Block of the rear assembly to the top of the Transmission

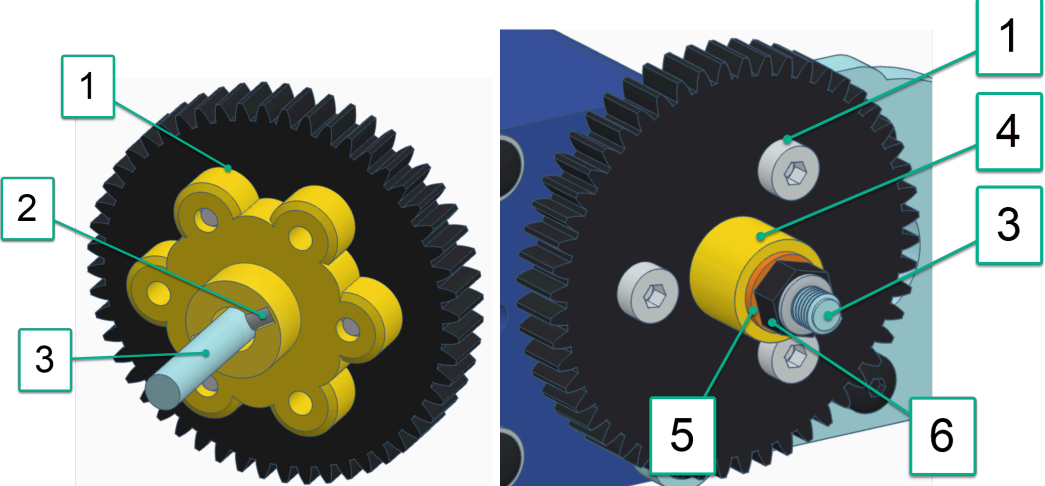
	STEP 3.2 (bottom view) 
1	M4x16 FH (2) Fasten left Rear Bulkhead (#2) of rear assembly to the chassis
2	left Rear Bulkhead
3	M4x16 FH (2) Fasten left Rear Bulkhead (#2) of rear assembly to the chassis
4	right Rear Bulkhead

	STEP 3.3 (outdrive pin) 
1	Out-Drive PIN (2) - align rear axle outdrive end onto transmission outdrive and screw in until flush - Repeat for other side

	STEP 4.1 (top of rear shock tower assembly) 
1	Rear Shock Tower (as part of previous assembly)
2	Rear Wing Mount (not part of previous assembly. Will be attached in next step)
3	M4x16 FH
4	M4x16 FH

	STEP 4.2 (rear of rear shock tower assembly) 
1	Rear Shock Tower (as part of previous assembly)
2	Rear Wing Mount (not part of previous assembly)
3	M4x25 FH (fasten rear of shock tower to transmission)
4	M4x25 FH (fasten rear of shock tower to transmission)
5	M3x16 CH (fasten lower shock to rear arm) SHOCKS BIND ON REAR ARM. MIGHT NEED PRINTED SHOCK ENDS
6	M3x16 CH (fasten lower shock to rear arm) SHOCKS BIND ON REAR ARM. MIGHT NEED PRINTED SHOCK ENDS
7	M3x16 BH (fasten wing mount to shock tower)
8	M3x16 BH (fasten wing mount to shock tower)

A few Final steps...

Attach Spur Assembly to Transmission Input Shaft	
	
1	SPUR Assembly (built earlier in the build guide)
2	2x10 Axle Pin through hole in input shaft
3	Transmission input shaft shown for reference only
4	Spur Disk Bushing
5	M4 FW
6	M4 NyLoc

INSTALL MOTOR and PINION GEAR

M3x10 CH (2)

M3 FW (2)

20t Pinion Gear

NEEDS PICTURE

ATTACH WHEELS

M4 SNF (4)

NEEDS PICTURE

ATTACH WING

M3x8 BH (2)

7-47 Wing Mount Washers (2)

AVID Wing

Ream M3 holes into wing

(We should mark wings before they go into kits. We need to make a quick jig to mark the wings)

NEEDS PICTURE

ATTACH ELECTRONICS SUB TRAY

M3x10 BH (2)

Electronics sub tray

NEEDS PICTURE

