

GZ1 2017

Instruction Manual

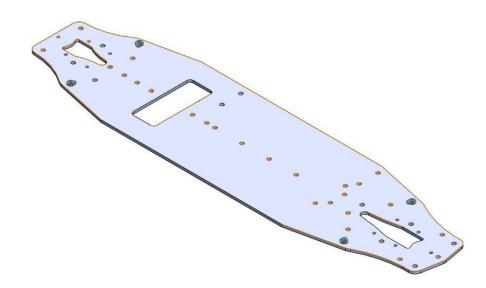
Bag A

Parts Part Part Name Quantity Number 7000 Center Weight 1 4 1100 Lower Wishbone 4 3060 Sideplate Mount 3030 **Rollbar Mount** 4 3040 4 Shock Mount 5040 Wishbone Insert 8 5050 C-Clip for Wishbone 8 Downstop Collar 4 P06 8 3280 **Ball Joint Balls** 4 3281 Balls for Rollbar Mounts 4 P04 Arm Hasp

Screws and Shims		
Part	Part Name	Quantity
Number		
B2.5x6	Hex Screw B2.5x6	20
B3x6	Hex Screw B3x6	8
C3x5	Hex Screw C3x5	4
C3x6	Hex Screw C3x6	10
P3x4	Set Screw P3x4	4
P3x6	Set Screw P3x6	8

A.1 Installation of P06 into the Chassis

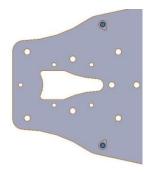
A.1.1



Install the qty4 P06 into the chassis individually. Light filing of the edges of the designated holes in the chassis may be required for easier installation; where the small semi-circle intersects the larger.

Place the P06 with the larger end on a flat surface. Then take the chassis in hand so that the P06 will be installed from the top of the chassis through to the bottom. The large end of P06 will shoulder on the upper side of the chassis. Align the designated hole of the chassis with the P06, and push the chassis onto the P06 piece.

The P06 will snap into place. Repeat for the remaining P06. CA glue can be used to further secure the piece into the chassis if desired.



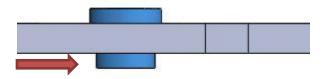


A.1.2

Install a P3x4 set screw into each of the four P06.

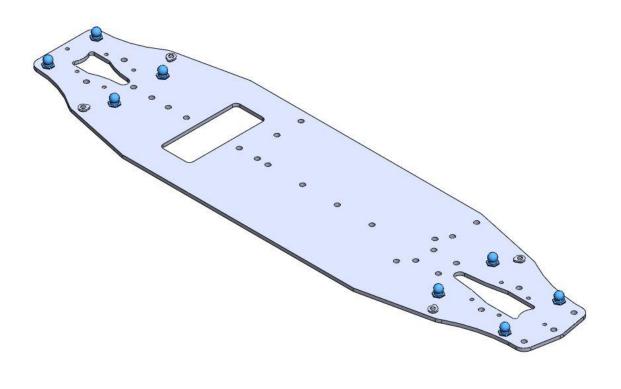
A.1.3

With a hobby-knife, trim off any of the P06 surpassing the bottom side of the chassis.



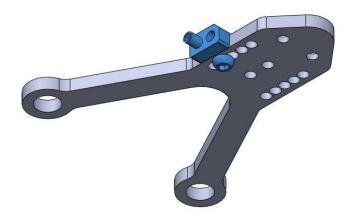
A.2 Install Arm Joints

Install qty8 3280 Ball Joint Balls using qty 8 C3x6 screws in the indicated diagram below. For a starting setup, install a 1mm shim below each 3280 for a starting lower roll-center setting.



A.3 Arms

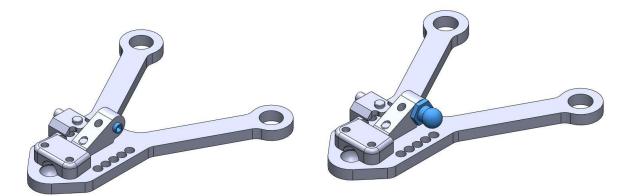
A.3.1 Wishbone Construction



Install the 3040 Shock Mount to the 1100 Lower Wishbone with qty1 B2.5x6 in the hole displayed. Install P3x6 in the position shown on the 3040 Shock Mount.

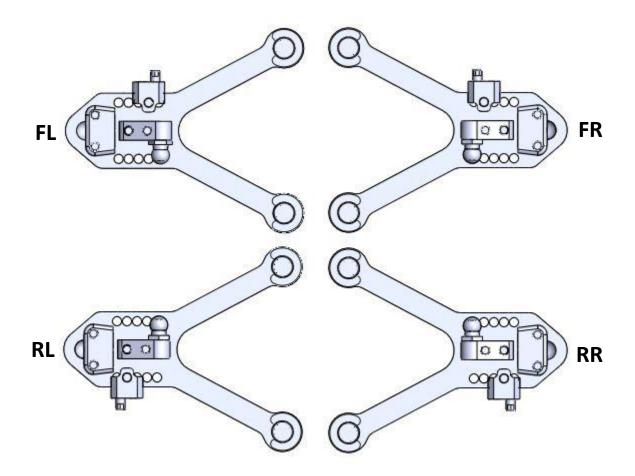


Install the P04 and the 3030 Roll Bar Mount to the 1100 Lower Wishbone with qty2 B2.5x6, respectively.



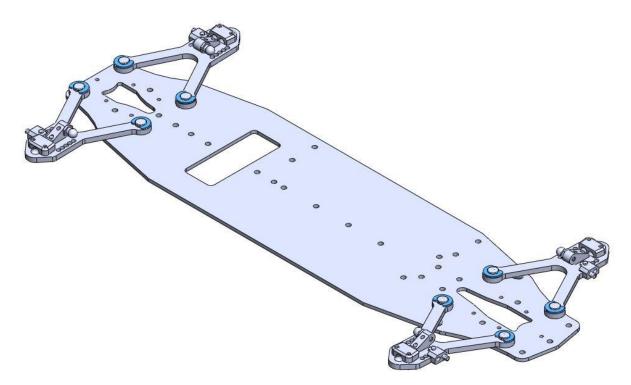
Install the P3x6 into the 3030, and then install the 3281 Ball onto the P3x6.

A.3.2 Arm Configuration



Repeat step A.3.1 for each of the four arms. However, take note of the recommended shock positions regarding the shock mounts for each respective arm (FL, FR, RL, RR).

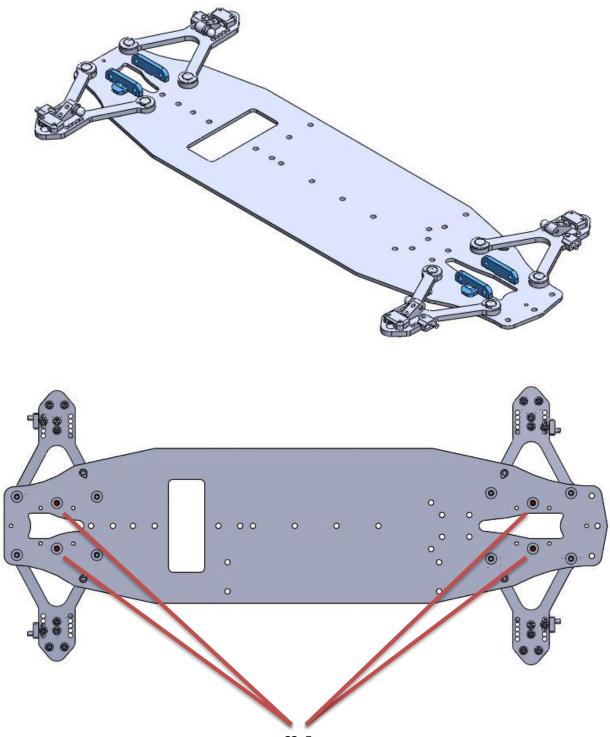
A.3.3 Arm Installation



Press the qty8 5040 Wishbone Inserts onto the respective qty8 3280 Ball Joint Balls already installed on the chassis from step A.2.

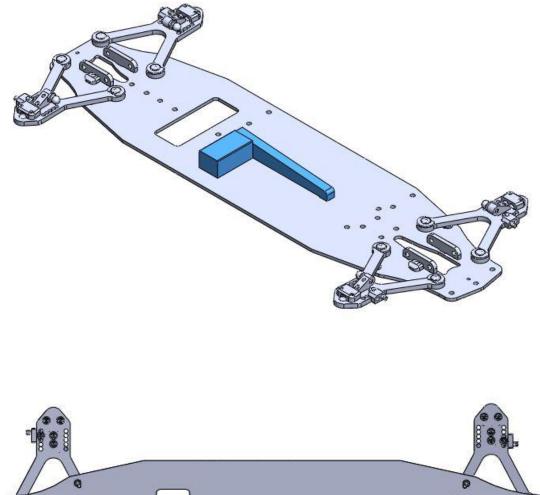
Then, install each of the four lower arms and secure them with qty2 5050 C-Clip For Wishbones per each lower arm, as seen above.

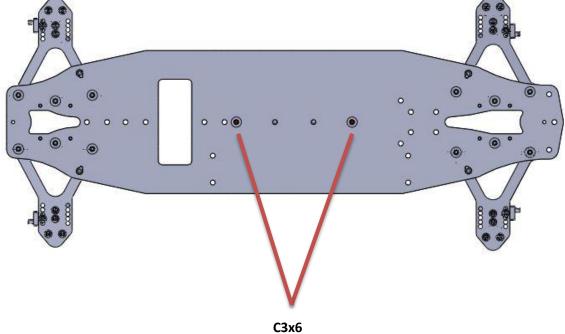
A.4 Sideplate Mount



C3x5

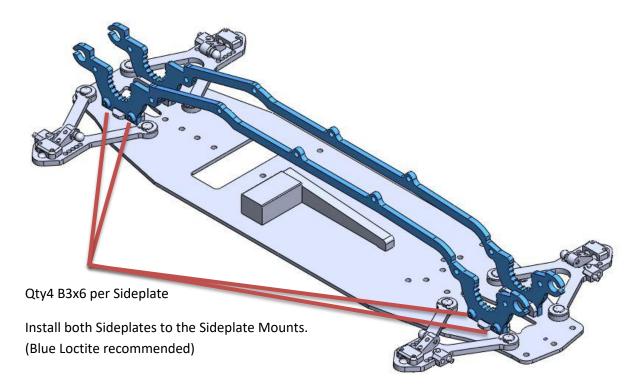
A.5 Center Weight Installation





The 7000 Center Weight has four possible mounting screws. The flex of the lower chassis varies depending on which screws are installed.

A.6 Sideplate



Bag B

Part	Part Name	Quantity
Number		
ST01	Front Axles	2
PIN01	Pin 1.5x7.8mm	6
ST13	Front Universal	2
	Bones	
ST16	U-Joint Cross	6
UB2	Bushings Kit with	1
	ST11	
ST17	Universal Ring	2
ST02	Rear Axle	2
ST14	Rear Universal Bones	2

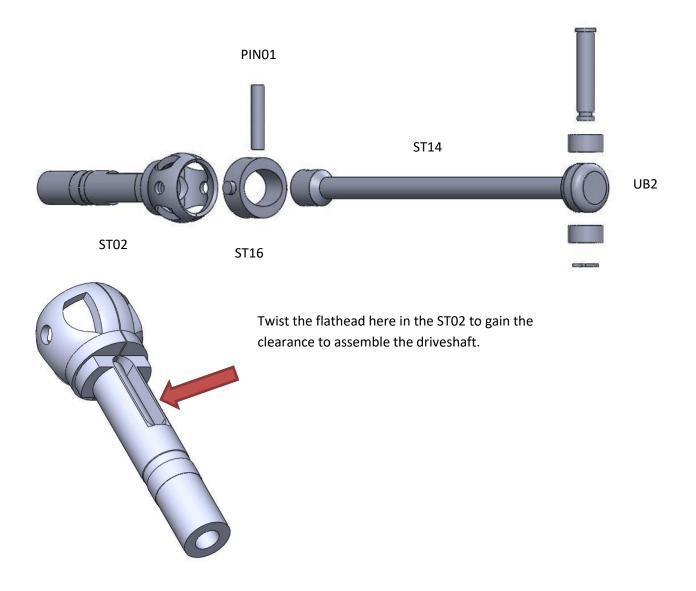
B.1.2 Front Dual Joint Driveshaft



then join them with ST17.

Use a flat-head with a width of 2.6 mm in the slot of the ST17 to pry it open and gain clearance to install the two halves of the driveshaft.

B.1.2 Rear Driveshaft



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Bag C

Parts		
Part Number	Part Name	Quantity
6020	6x10x3 Bearing	8
3190	Upright Hubs	4
3180	Wheel Axle	4
GZ11701	Arm for Upright Front	2
GZ11702	Rear Toe in Arm	2
ST03	Upright Ball	4
P16	Lock Ring	4
GZ11703	Balls for V2 Ball Joints	8
GZ11704	5.8mm Pivot Balls	4
Screws and Shims		
Part Number	Part Name	Quantity
B3x6	Hex Screw B3x6	8
P3x8	Set Screw P3x8	8

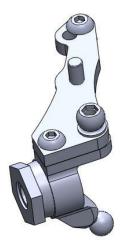
C.1.1 Front Uprights

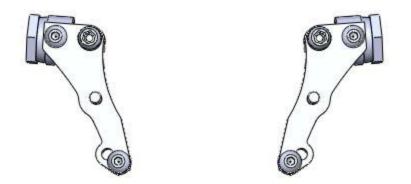


Assemble the first front upright as depicted by the diagram.

Notes:

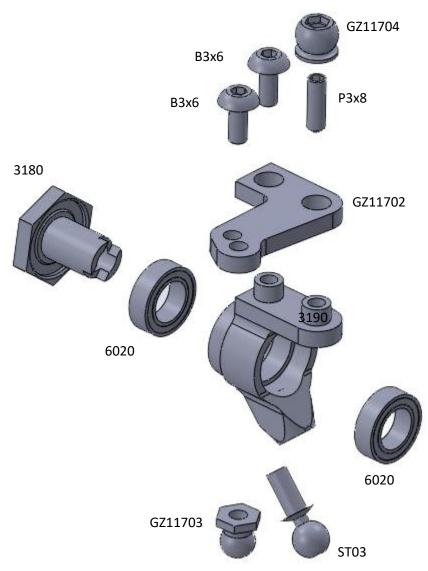
- Upper outer roll center can be adjusted with different shim sizes below the GZ11704. Recommended starting setup is 2mm.
- Roll Center and track-width can also be varied using various shim sizes between the 3190 and ST03. Recommended starting setup is zero mm.
- Bumpsteer can also be adjusted by varying the shim size on the steering connection of the arm.





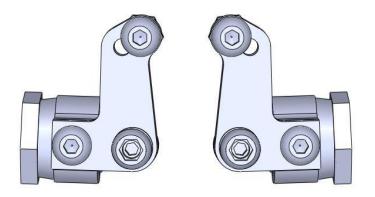
Replicate the other front upright sub-assembly for the opposite side. Thus, flip the GZ11701 and build as depicted above.

C.1.2 Rear Uprights

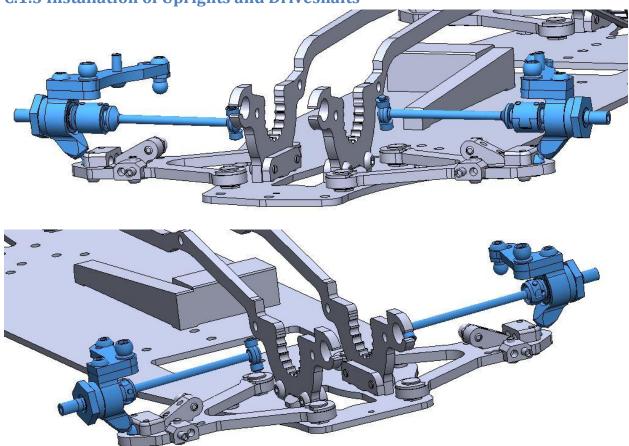


Assemble the first rear upright as indicated by the diagram.

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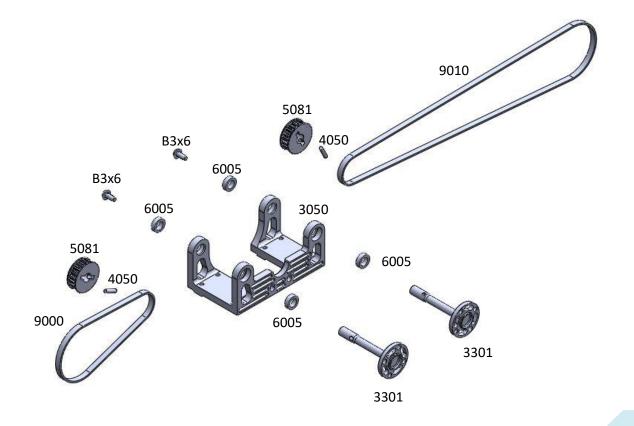
Replicate the other rear upright sub-assembly for the opposite side. Thus, flip the GZ11702 and build as in the orientation above.



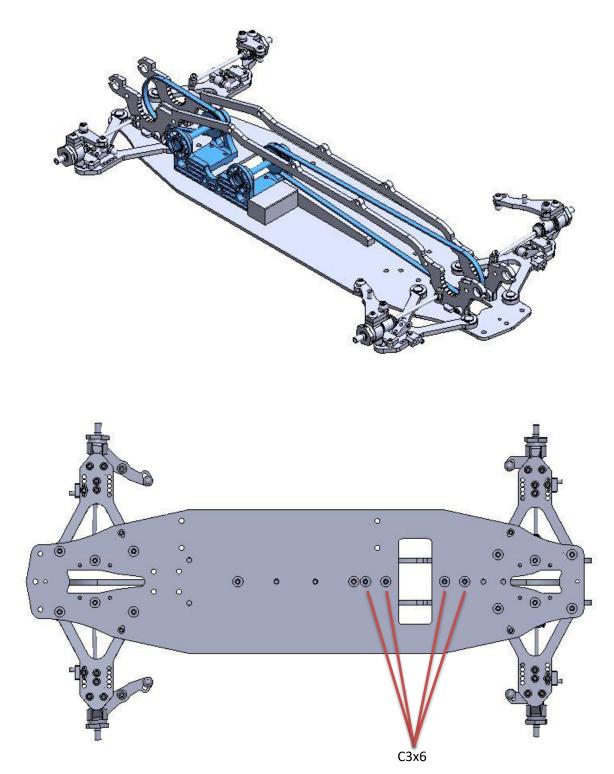
C.1.3 Installation of Uprights and Driveshafts

Install the front and rear driveshafts into the front and rear uprights, respectively. Then install the uprights into the lower wishbones and tighten down each of P04 to clamp onto the ST03's. Later, we will explain the necessary tightness needed on the PO4 for free movement.

Bag D			
	Parts		
Part	Part Name	Quantity	
Number			
3050	Motor Mount	1	
6005	Bearing 5x8x2.5	4	
3301	Shaft Pulley	2	
5081	18T Pulley	2	
9000	Rear Belt	1	
9010	Front Belt	1	
4050	Pin 2x10mm	2	
S	crews and Shims		
Part	Part Name	Quantity	
Number			
C3x6	Hex Screw CS	4	
SHPS	Shim	4	
	5x7x0.1mm		
B3x6	Hex Screw B3x6	2	



The SHPS Shims can be used to shim your spur gears depending on their thickness.

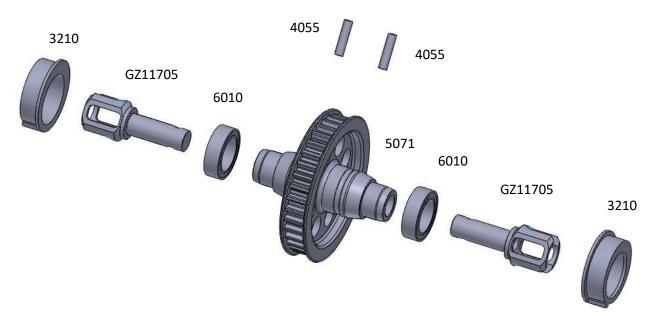


Install the Motor Mount subassembly using qty4 C3x6 screws as indicated above.

Bag E

Dovt		
Part		
Part	Part Name	Quantity
Number		
GZ11705	Outdrives V2	4
5071	Spool	1
5010	Diff Left	1
5020	Diff Right	1
4050	Pin 2x10mm	4
4055	Pin 2x8mm	2
8010	O-Ring 24x1mm	1
304990	Diff Gasket	1
304930	Diff Gear Set	1
964031	Diff Washer	4
	3.5x10x0.2mm	
964050	Diff Washer 5x15x0.3mm	2
6010	Bearing 8x12x3.5	4
3210	Diff Eccentric	4
304980	Diff Cross	1
8020	O-Ring 5x2mm	2
Screws and Shims		
Part	Part Name	Quantity
Number		
C2.5x8	Hex Screw C2.5x8	4

E.1 Spool



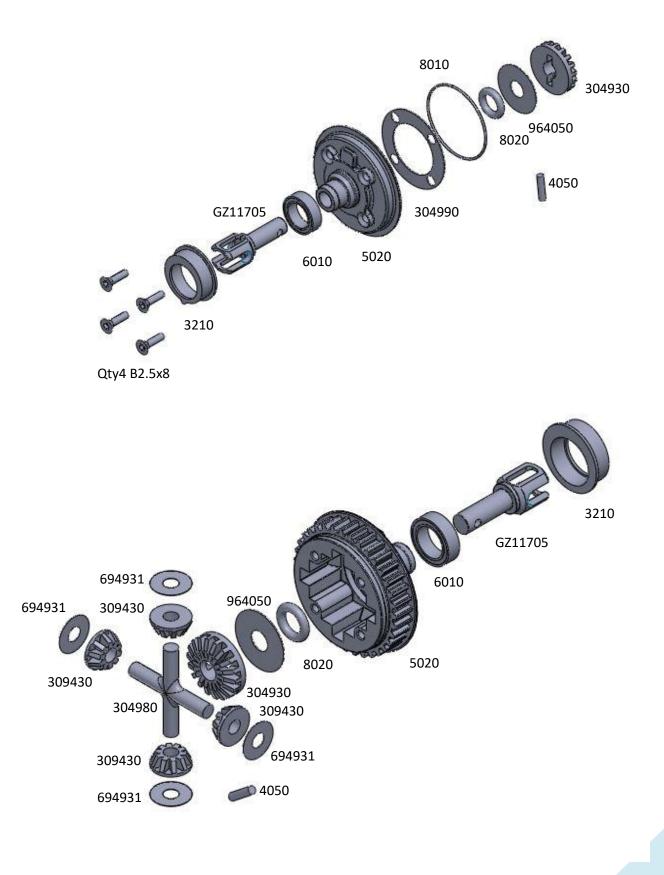
Light sanding of the spool on the two outer diameters where the 6010 bearings sit will aid in smooth assembly.

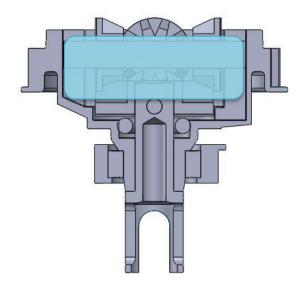
Must install the 6010 bearings before the GZ11705 Outdrives.

E.2 Rear Differential

Light sanding on the outer diameters where the 6010 bearings sit of the left and right differential housings will aid in smooth assembly.

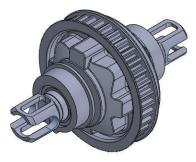
Must install the 6010 bearings before the GZ11705 Outdrives. You also need to install 8020 and 964050, before you install 4050.



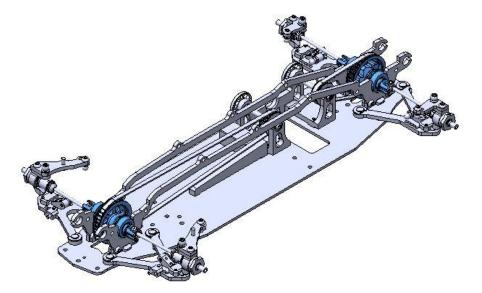


Fill the diff half containing the cross with gears with the oil of your choice, as seen above. Then join the two halves together.

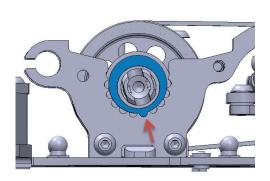


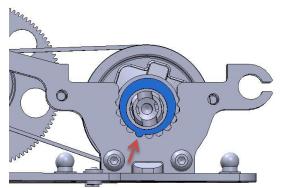


E.3 Install Spool and Rear Differential



The tension of the front and rear belts can be adjusted using the eccentric 3210 pieces and their position in the sideplates.

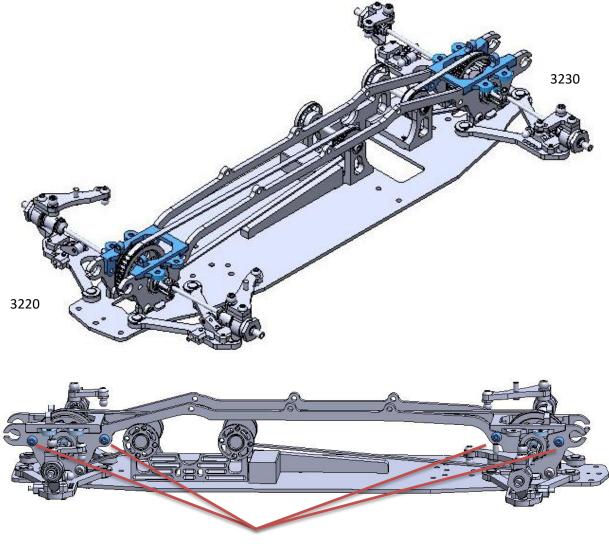




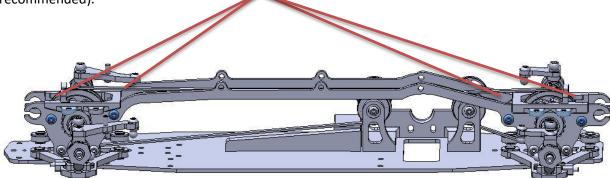
Bag F

Part		
Part	Part Name	Quantity
Number		
GZ11706	Inner Plates	4
GZ11707	V2 Arms P1	2
GZ11708	V2 Arms P2	2
3230	Upper Mount Rear	1
3220	Upper Mount Front	1
GZ11709	Ball Joint	12
GZ11703	Ball for Ball Joints	8
3260	Turnbuckle 3x27mm	10
GZ11710	Ballstuds 4.8 with	2
	10mm	
	Screws and Shims	
Part	Part Name	Quantity
Number		
B3x6	Hex Screw B3x6	14
B3x8	Hex Screw B3x8	14
GZ11712	Upper Arm Nut	4
GZ11713	V2 Arm Screw	4

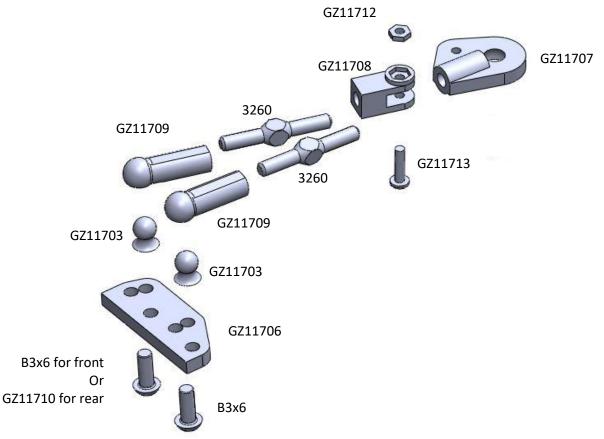
F.1 Front and Rear Upper Mounts



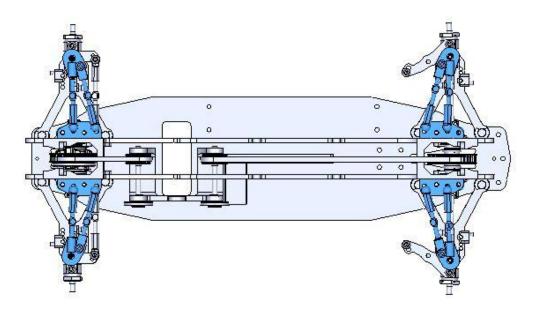
Qty4 B3x6 per mount (8 in total) to connect the upper braces to both Sideplates (Blue Loctite recommended).

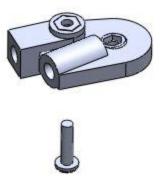


F.2 Upper Arms



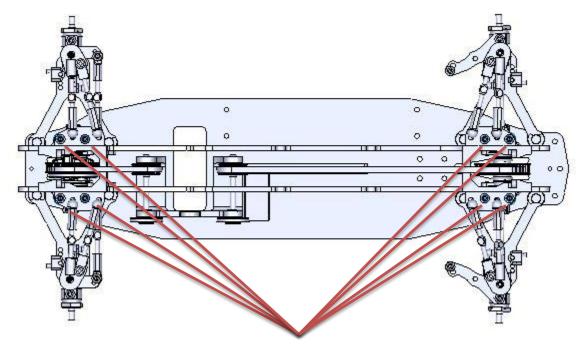
Construct the 4 upper arms as indicated in the diagram above. Note that the GZ11710 Ballstuds will be utilized on the two components for the rear of the car to both serve the rear-toe linkage and the mounting screw for one of the upper GZ11703. Take note the GZ11707 comes with an A and B component. See diagram below for which is needed for the respective corner of the car.





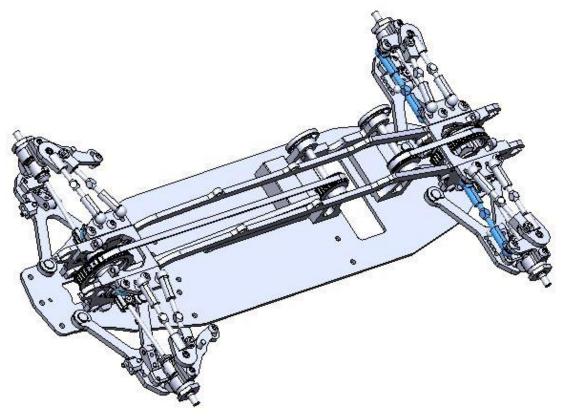
The GZ11708 is fixed to the GZ11708 by the nut (GZ11712) and screw (GZ11713).

To connect the uprights with the upper arms, the 5.8 mm Pivot Balls (GZ11704) snap into the GZ11708's.



Qty 8 B3x6 to fix the Inner Plates to the Upper Mounts.

F.3 Rear-Toe Linkage

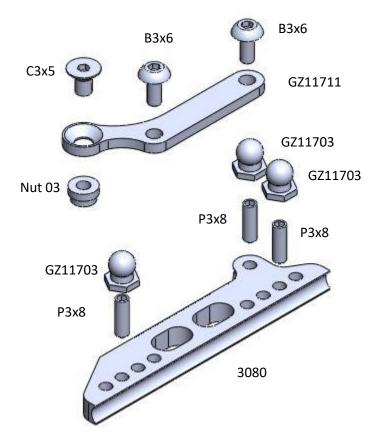


Construct 2 rear-toe linkages. For each linkage, use qty1 3260 3x27mm turnbuckle and qty2 GZ11709 Ball Joints. After the turnbuckles are built, install them by connecting them to the ballstud of the rear upper arms and the available ball end on the rear toe-in arm.

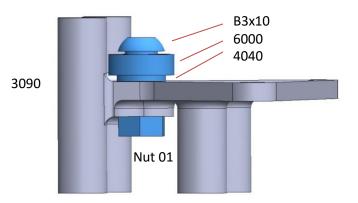
Bag G

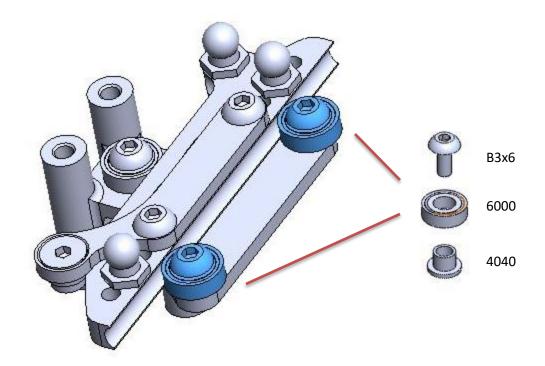
	•	
Parts		
Part	Part Name	Quantity
Number		
3080	Steering Rack	1
3090	Steering Mount	1
3010	Servo Mount Short	1
3100	Servo Mount Long	1
GZ11703	Balls for V2 Ball Joints	3
4040	Steering Post	3
6000	Bearing 4x8x3	3
3260	Turnbuckle 3x27mm	2
3270	Turnbuckle 3x39mm	1
5060	Ball Joints	6
1150	Servo Plate	1
GZ11711	Stop Rack	1
	Screws and Shims	
Part	Part Name	Quantity
Number		
B3x6	Hex Screw B3x6	8
B3x10	Hex Screw B3x10	1
C3x5	Hex Screw C3x5	1
C3x6	Hex Screw C3x6	4
P3x5	Set Screw P3x5	1
P3x8	Set Screw P3x8	3
NUT01	M3 Nut	1
NUT03	Nut for Stop Rack	1

G.1 Steering Rack Sub-Assembly

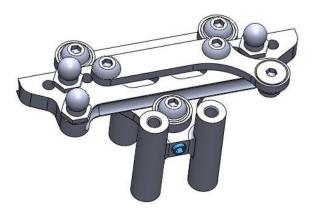


Construct the steering rack itself as seen above.



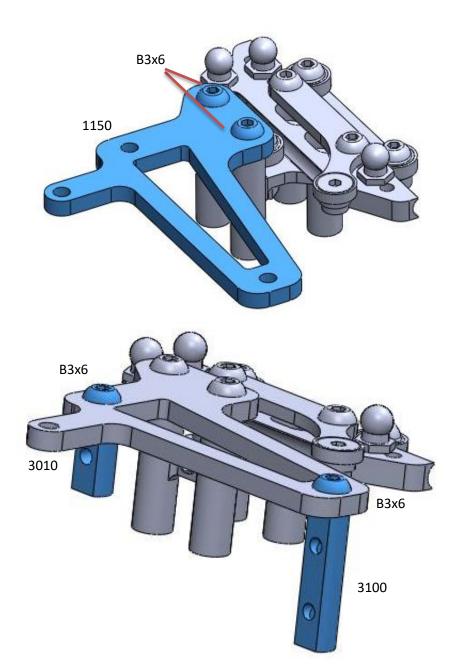


Place the steering rack onto the 3090 piece, and then secure it into its general position using the bearings as depicted in the image above. Next we will adjust the slop in the system by installing the P3x5 set screw in the back (a thread locker is recommended here).

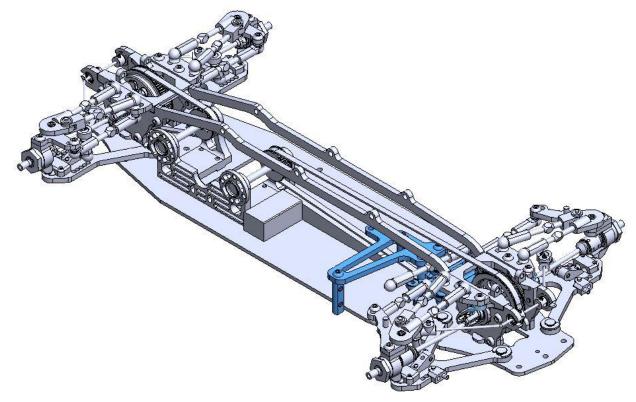


Tighten the set screw until slop of the rack between the bearings is eliminated. However, do not overtighten; you want the rack to be able to slide side-to-side under its own weight.

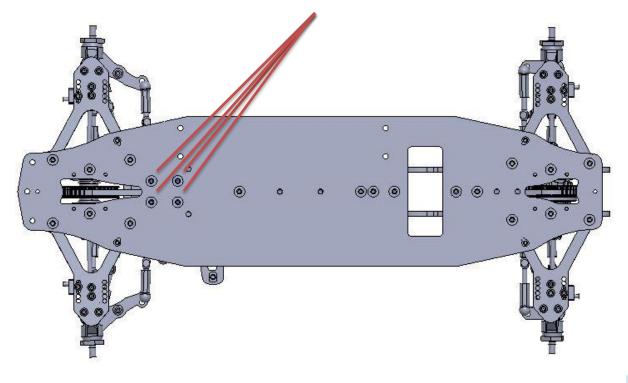
There will be a small break in period for this, so regularly check the fitment of the rack and tighten the set screw as play develops.



Now install the steering subassembly into the chassis.

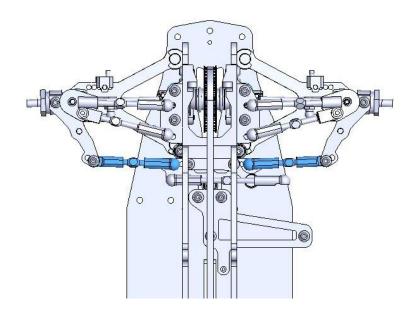


Qty 4 C3x6 secure the steering subassembly to the chassis.



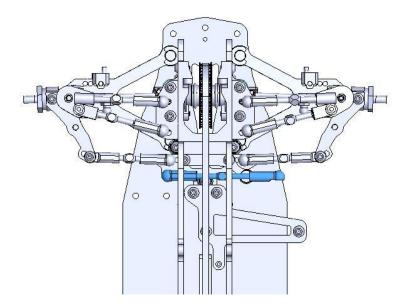
G.2 Steering Linkages

Construct qty2 steering linkages using one 3260 and two 5060 for each. Then install them into chassis to connect the



G.3 Servo Linkage

Construct one servo link with one 3270 turnbuckle (long) and two 5060 Ball Joints. Install to the steering rack as seen below. The other end will connect to the steering servo.

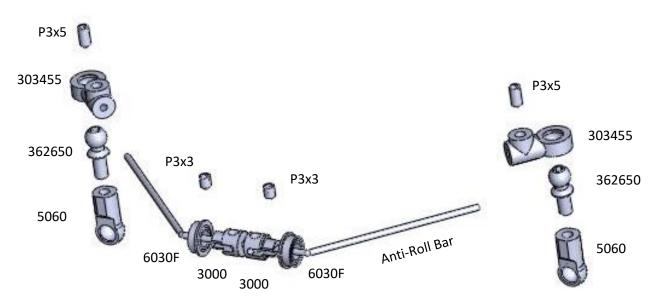


Bag H

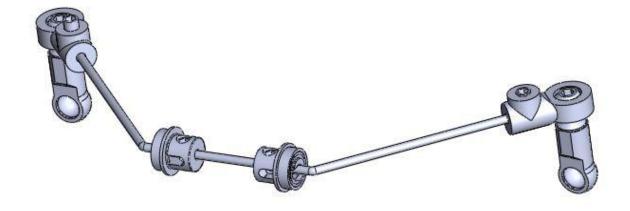
Parts		
Part Number	Part Name	Quantity
5060	Ball Joints	4
4000	Anti Roll Bar 1.4mm	1
4010	Anti Roll Bar 1.3mm	2
4015	Anti Roll Bar 1.2mm	1
3000	Roll Bar Side Steer	4
303455	Anti Roll Bar Ball Joint	2
362650	Anti Roll Bar Screw	4
6030F	Bearing 4x7x2.5mm Flange	4
Screws and Shims		
Part Number	Part Name	Quantity
P3x3	Set Screw P3x3	4
P3x5	Set Screw P3x5	4

H.1 Front and Rear Anti-Roll Bars

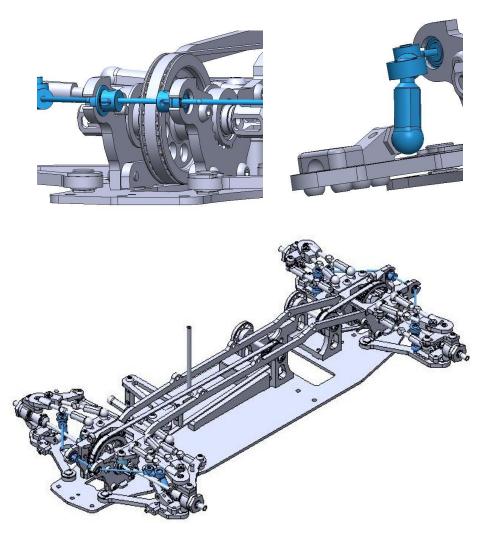
The anti-roll bar systems are identical front and rear. The kit includes 4 anti roll bars of different thicknesses (1.2, two 1.3, and a 1.4) to fine tune the handling of the car.



The 5060 Ball Joints must be trimmed 5mm shorter for the anti-roll bar.



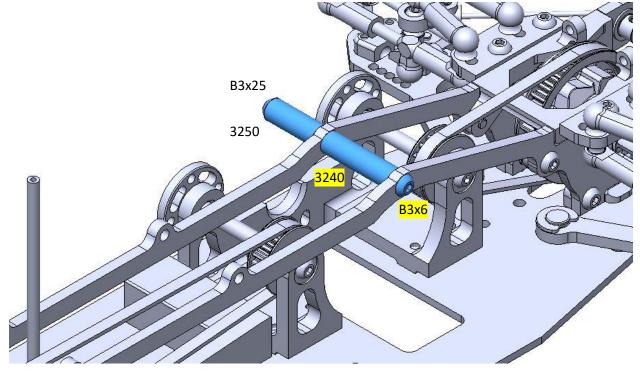
Install the front and rear roll bar subassemblies into the chassis by securing the bearings in the sideplates from the middle out and the 5060 ball joints to the lower arms.



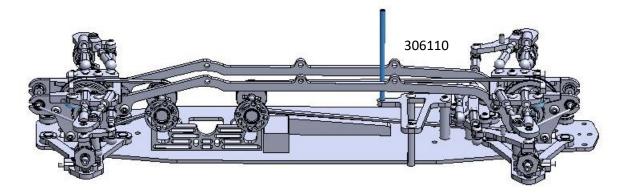
Bag I

Parts			
Part	Part Name	Quantity	
Number			
306110	Antenna	1	
301332	Rear Body Mount	2	
P14	Bumper Set (bottom plastic, top plastic 2 body post)	2	
RSD100	RSD Bumper	1	
SG97	97T Spur Gear	2	
1220	Motor Bracket	1	
1080	Battery Mount	2	
3240	Side Plate Stiffener Long	1	
3250	Side Plate Stiffener Short	1	
4050	Pin 2x10	2	
1120	Shock Tower Front	1	
1140	Shock Tower Rear	1	
Screws and Shims			
Part	Part Name	Quantity	
Number			
B3x5	Hex Screw B3x5	4	
B3x6	Hex Screw B3x6	5	
B3x25	Hex Screw B3x25	1	
C3x6	Hex Screw C3x6	5	
C3x8	Hex Screw C3x8	4	
C3x10	Hex Screw C3x10	4	
Sh2,0	Shim 2mm	4	
Nut01	M3 Nut	4	
WH01	Wheel Nuts	4	

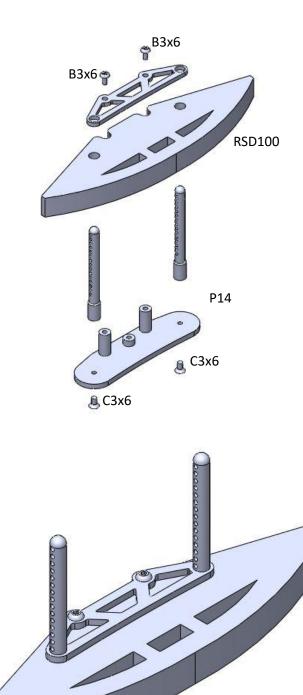
I.1 Top Chassis Stiffeners



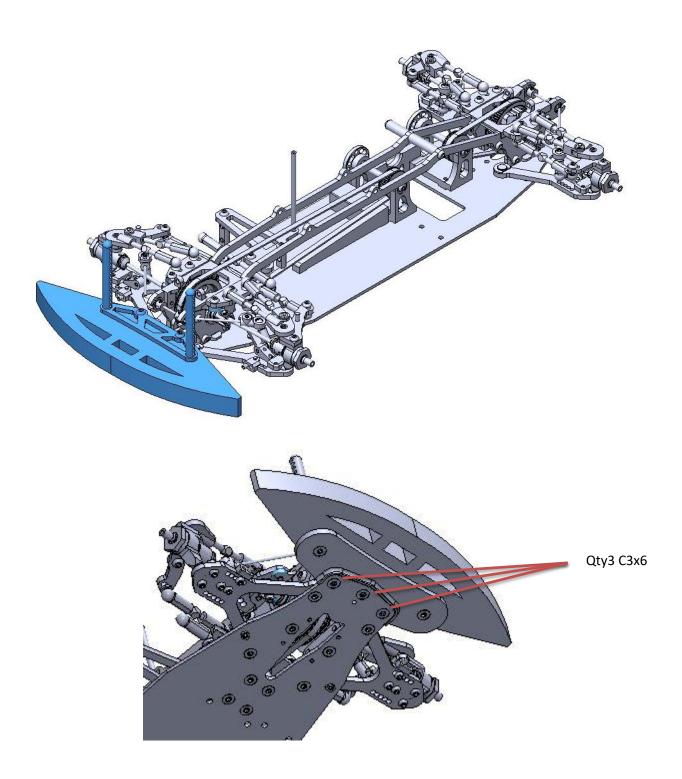
I.2 Antenna



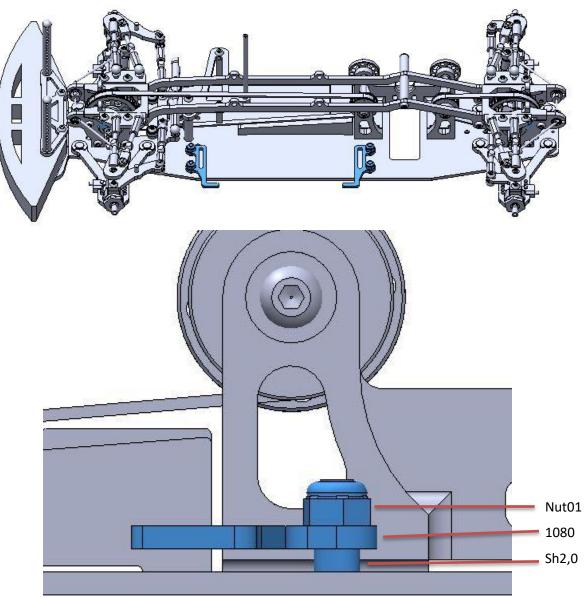
I.3 Bumper

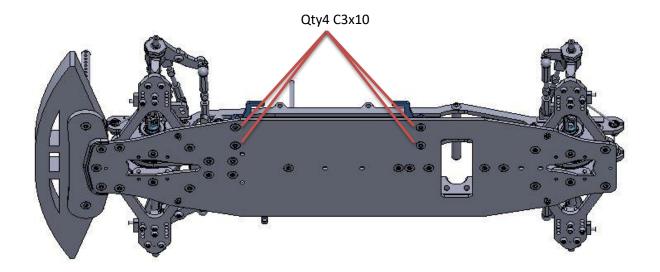




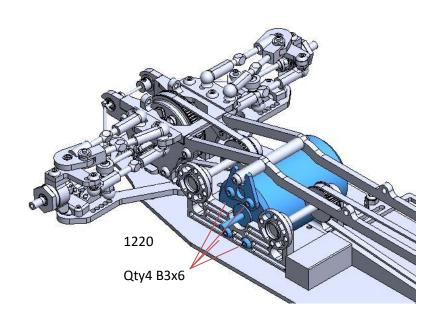


I.4 Battery Stops

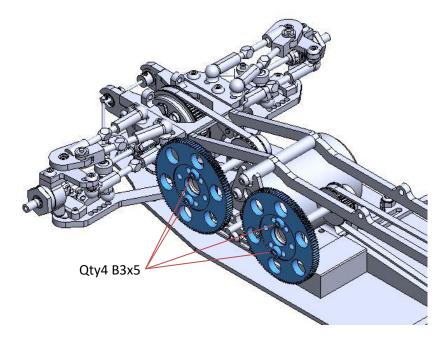




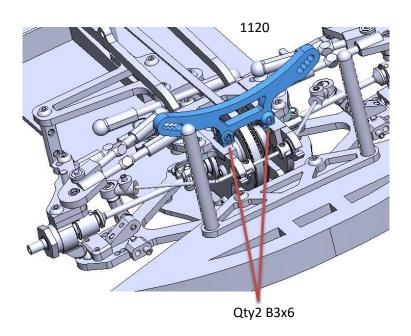
I.5 Motor Bracket

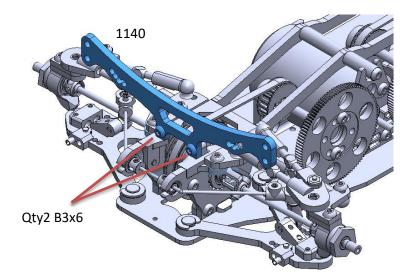


I.6 Spur Gears

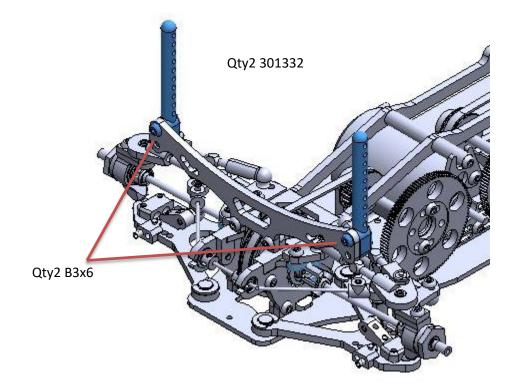


I.7 Shock Towers





I.8 Rear Body Posts

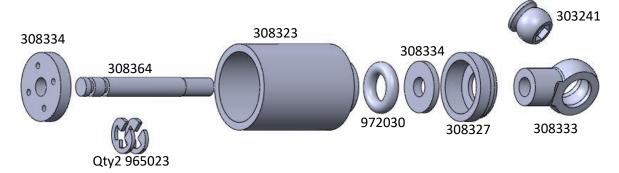




Bag J

Parts			
Part	Part Name	Quantity	
Number			
SPR90	Spring Soft-Med	2	
SPR95	Spring Med	2	
SPR100	Spring Med-Hard	2	
308333	Shock Parts	2	
308334	Shock Piston Complete	2	
308323	Alu Shock Body	4	
308353	Alu Shock Cap Top	4	
308042	Alu Shock Adjustable	4	
	Nut		
303241	Ball Universal (5.8mm)	8	
308082	Shock Membrane	4	
965023	E-Clip 2.3mm	4	
308364	Shock Shaft	4	
972030	O-Ring 3x2mm	4	
970130	O-Ring 13x1.5mm	4	
Screws and Shims			
Part	Part Name	Quantity	
Number			
B3x8	Hex Screw B3x8	4	

J.1 Shock Assembly



Qty 4 Shocks are to be assembled. The first step is to assembly the internal and lower components in the order depicted below. The Piston of the shock must be secured to the shaft using the two E-Clips; one on each side. Then the shaft can be passed through the Shock Body. Before installing the lower plastic pivot piece to the shaft, it is necessary to install the O-Ring, Plastic Retainer, and Lower Aluminum Shock Cap around the Shaft and onto the lower part of the Shock Body. Then the Universal Ball can be installed; install it from the shiny side of the plastic.

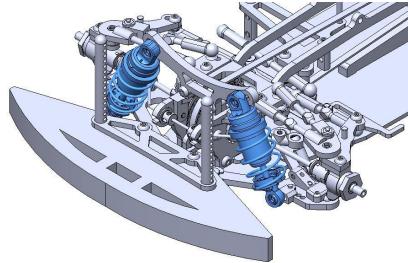








I.2 Shock Installation



Qty4 B3x6 to attach each Shock Absorber to the Shock Towers, respectively. Attach lower end of Shock Absorber to the Set Screw of the Shock Mounts on the Lower Wishbones.

