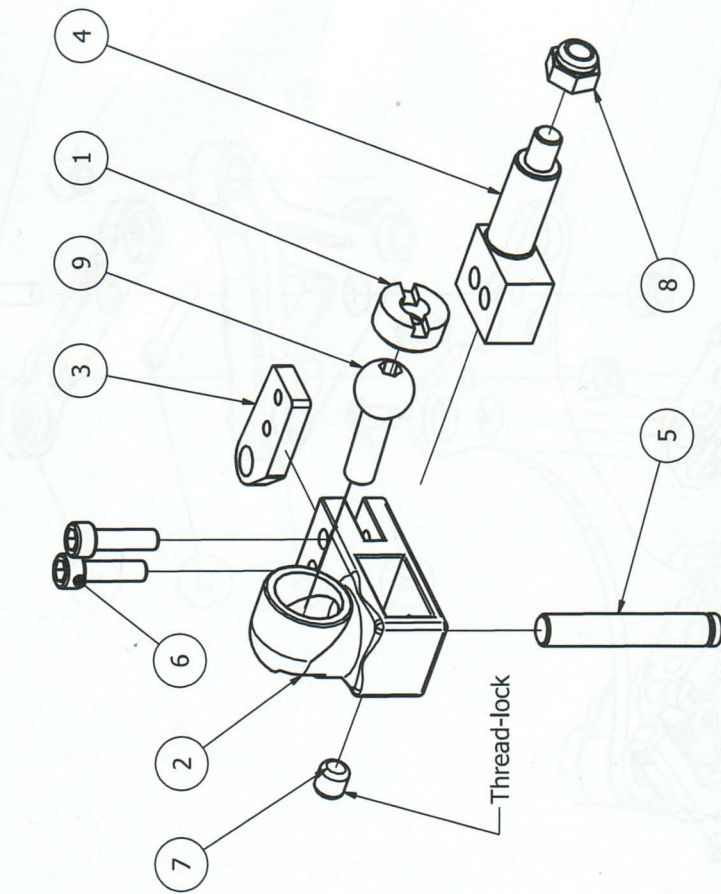
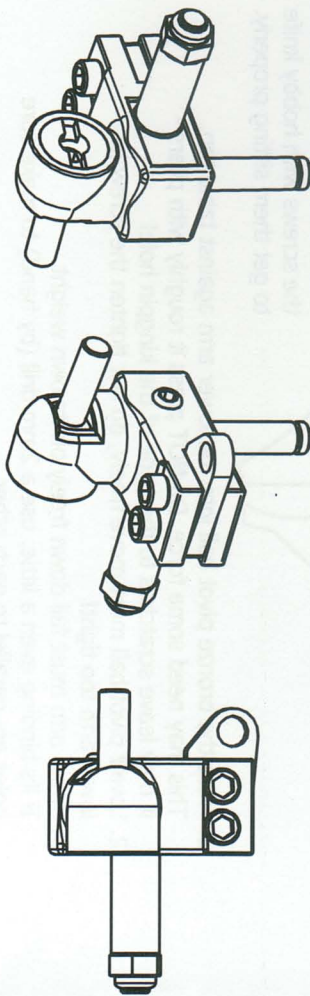
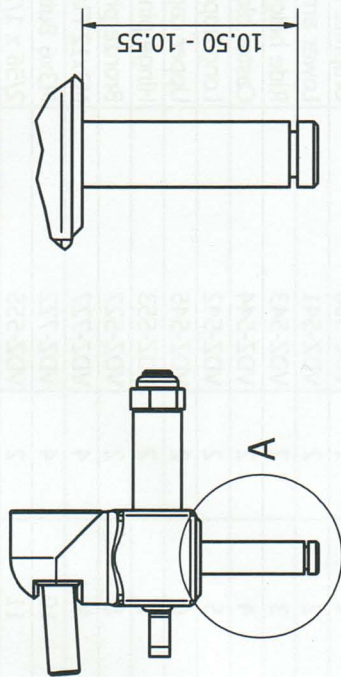


# Bag A1 - Steering block assembly



Detail A

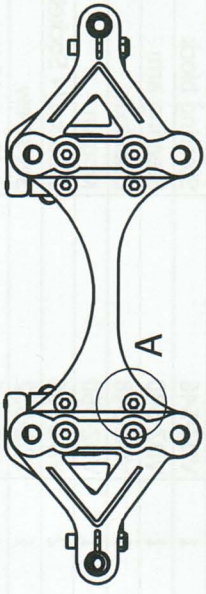
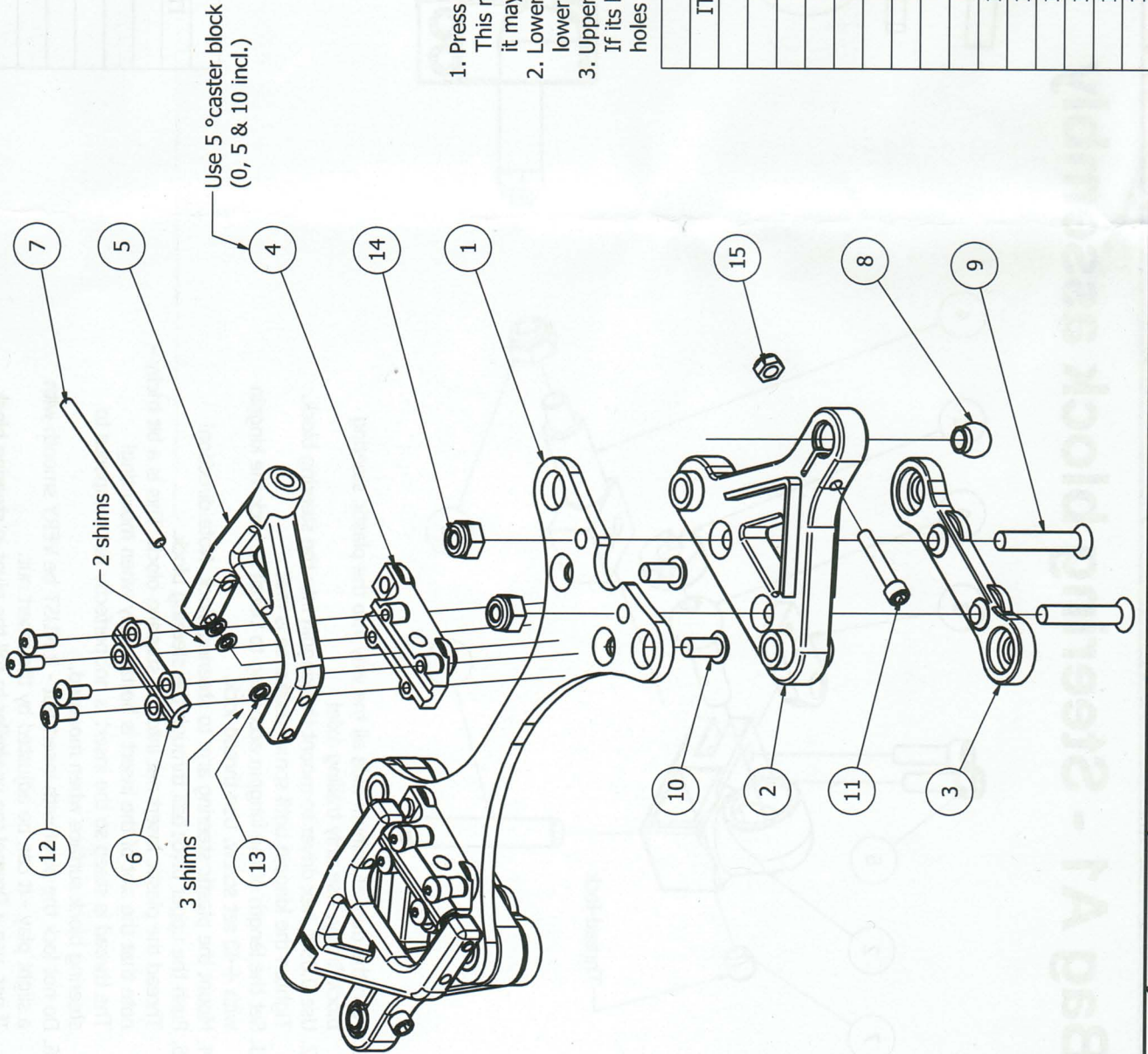


1. Push the dual aluminum axle all the way into the plastic steering block firmly. Use only trailing axle!
2. Use 0.050" hex driver to mount the kingpin into the steering block. Tighten the kingpin until some resistance is met.
3. Set the length of the kingpin according to Detail A. Lock the kingpin with 4-40 set screw. Use thread-lock.
4. Mount the plastic steering arm to steering block. Note direction!
5. Push the upper pivot ball through the steering block. This is a bit tricky - Thread the plastic insert nut into the steering block. This is a bit tricky - note that the slot of the insert is horizontally when mounting! The thread is steep so the insert is not perfectly flat compared to steering block surface when mounted.
6. Do not lock the pivot with insert nut - it MUST be VERY smooth with a slight play - it can be adjusted by the insert nut. If not, use a Dremel too or similar to roll the pivot in steering block but be careful not to burn the plastic!
7. Now the assembly is ready - repeat the same to the right side parts!

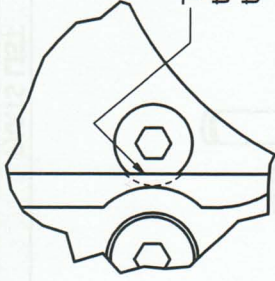
## PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	VDZ-547	Insert nut
2	1	VDZ-546	Steering block
3	1	VDZ-540	Steering arm
4	1	VDZ-548	Dual axle
5	1	VDZ-550	Kingpin
6	2	VDZ-556	2/56 x 1/4 Socket head
7	1	VDZ-552	Set screw
8	1	VDZ-732	4-40 x 3-16 Nut
9	1	VDZ-549	Upper pivot ball

# Bag A2 - A4 - Front brace assembly



Detail A



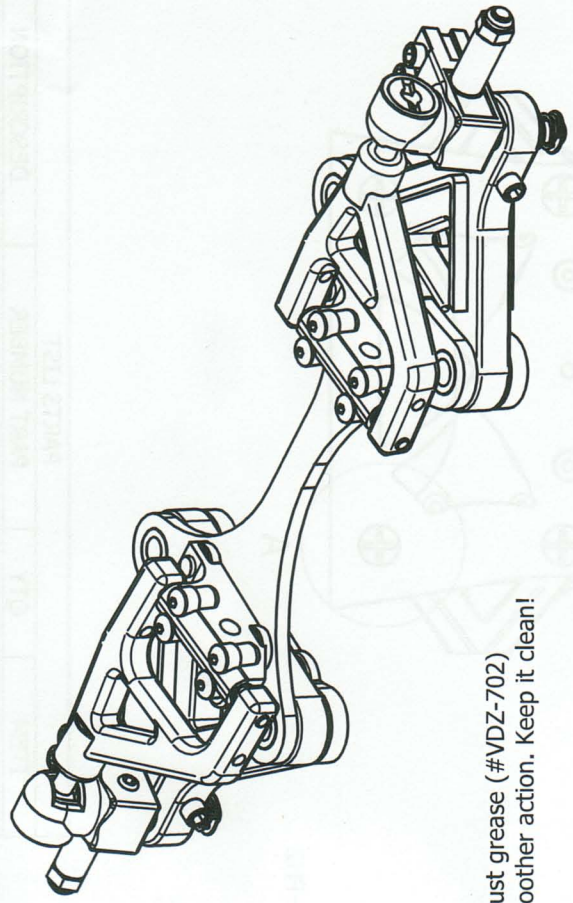
Take some material off around the screws with hobby knife to get them sitting properly.

1. Press the bronze pivot ball into the lower arm against table top. This may need some force. Do NOT press it roughly with pliers - it may leave scratches to the edge of the kingpin hole!
2. Lower pivot ball must move freely, do not tighten the screw in lower arm too tight!
3. Upper arm must fall down freely on its own weight. If its binding even a little, use a 2mm drill (by hand) to make sure holes are parallel to each other.

## PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	VDZ-506	Graphite front brace
2	2	VDZ-541	Lower arm
3	2	VDZ-543	Ride height blocks
4	2	VDZ-544	Caster block
5	2	VDZ-542	Long upper arm
6	2	VDZ-545	Upper cap
7	2	VDZ-553	Hinge pin
8	2	VDZ-527	Bronze pivot ball
9	4	VDZ-727	M3x12 Flat head
10	4	VDZ-722	M3x6 Button head
11	2	VDZ-555	2/56 x 1/2 Socket head
12	8	VDZ-558	2-56 x 1/4 Button head
13	6	VDZ-554	Teflon shims
14	4	VDZ-731	M3 Nut
15	2	VDZ-557	2/56 Lock nut

# Bag A - Front-end assembly



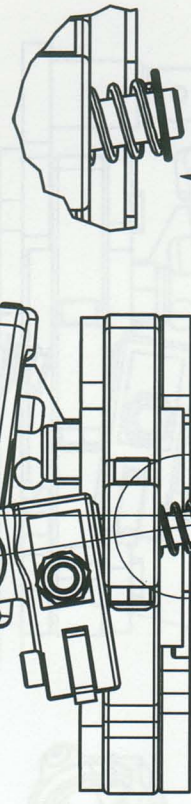
Use V-Dezign Thrust grease (#VDZ-702) on kingpin for smoother action. Keep it clean!

Use 2mm hex driver to tighten upper pivot to arm and to set camber

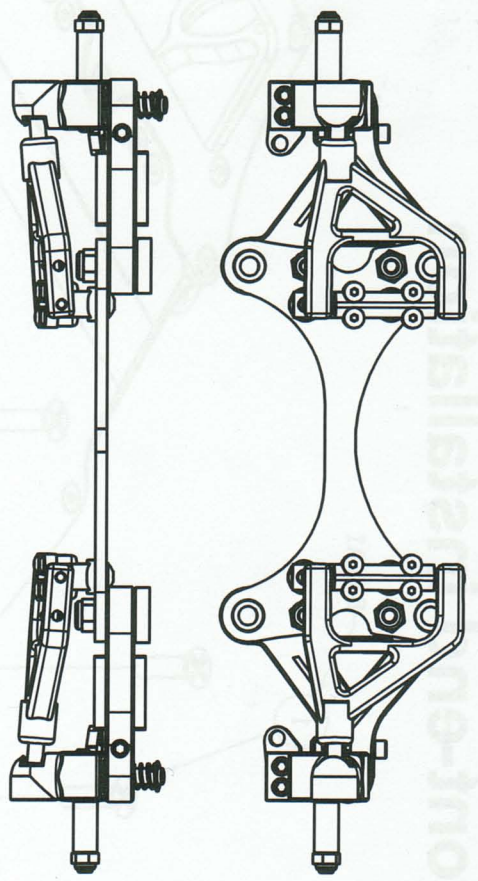
Caster  $\sim 4-7^\circ$

Note!  
Caster angle possibly differs slightly from side to side when using equal shimming with upper arm. Adjust equal caster on both sides with shims.

Detail A



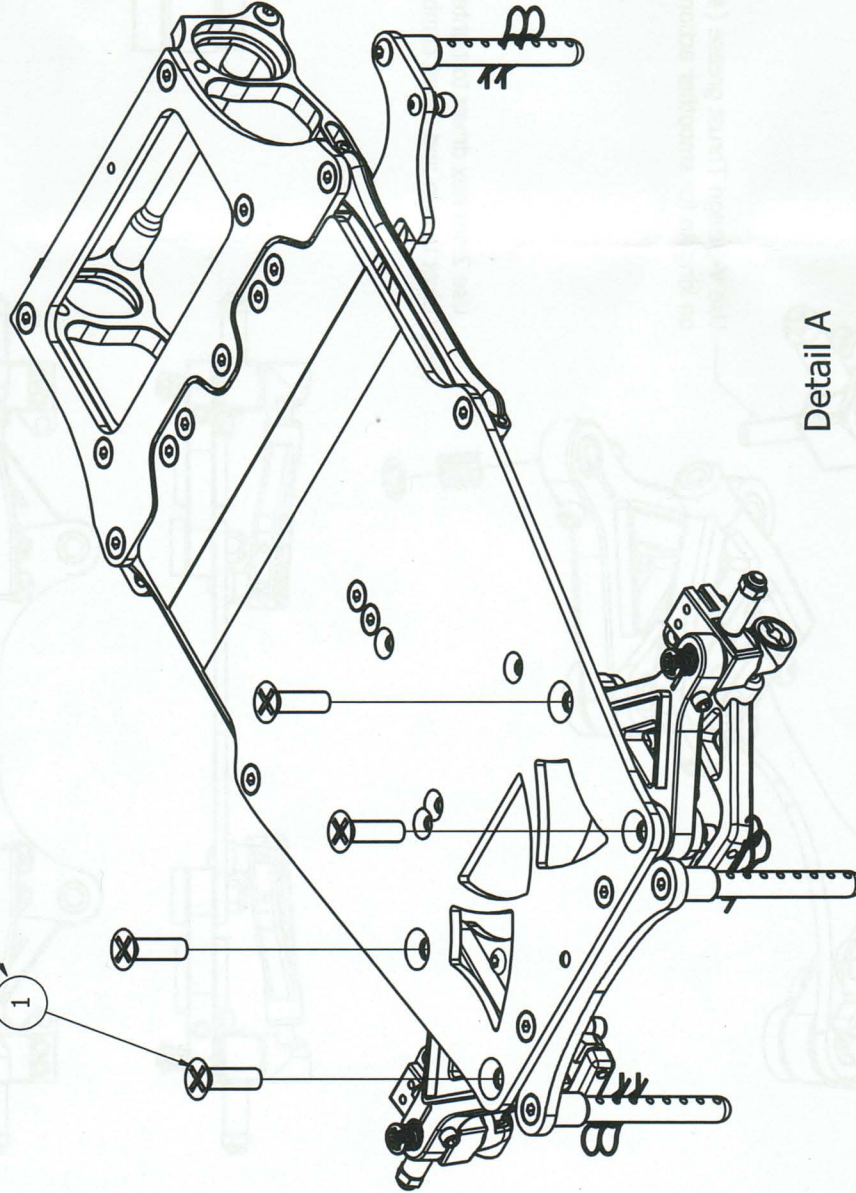
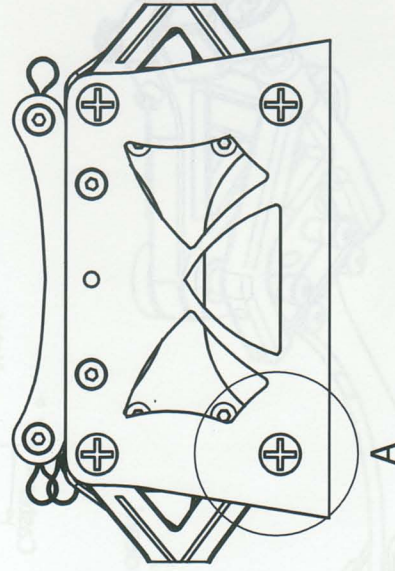
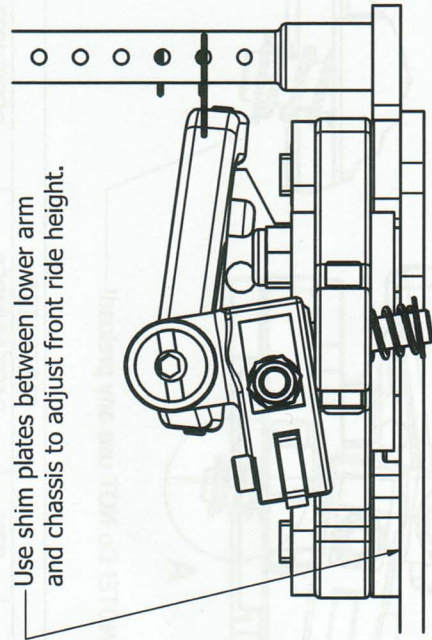
NOTE! Do NOT use any preload!



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
19	2	VDZ-562	Front spring 0.50mm
20	2	VDZ-551	E-clip

# Front-end installation

Use shim plates between lower arm and chassis to adjust front ride height.

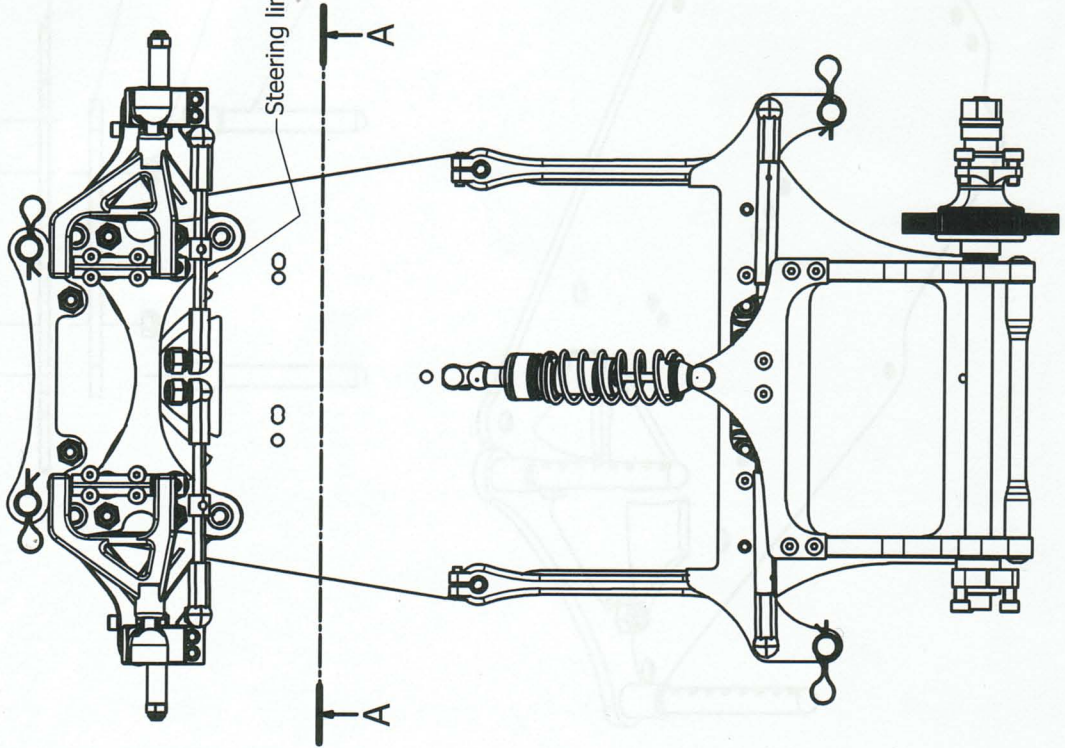


Detail A

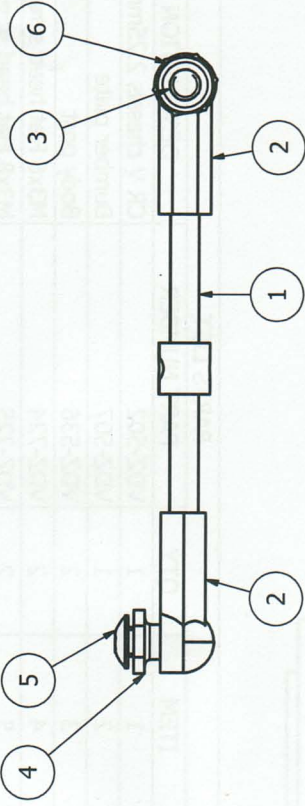
## PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	VDZ-733	8-32 x 5-8 Flat Head

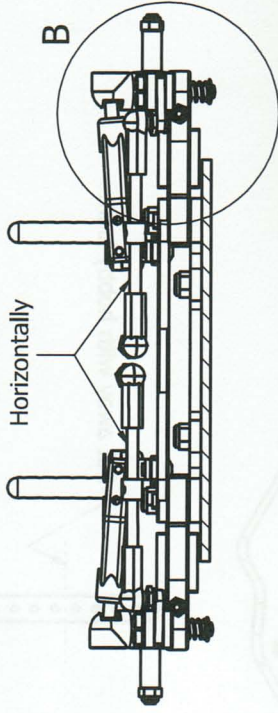
# Bag A - Steering link installation



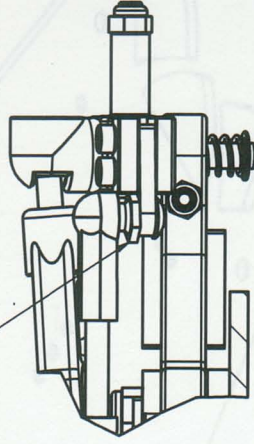
Depending on tire size, use 1-3mm shims under the ball to keep steering link horizontally levelled



Detail A

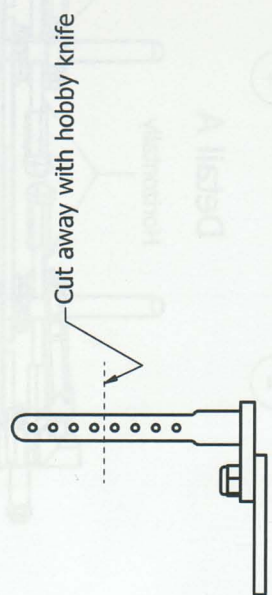
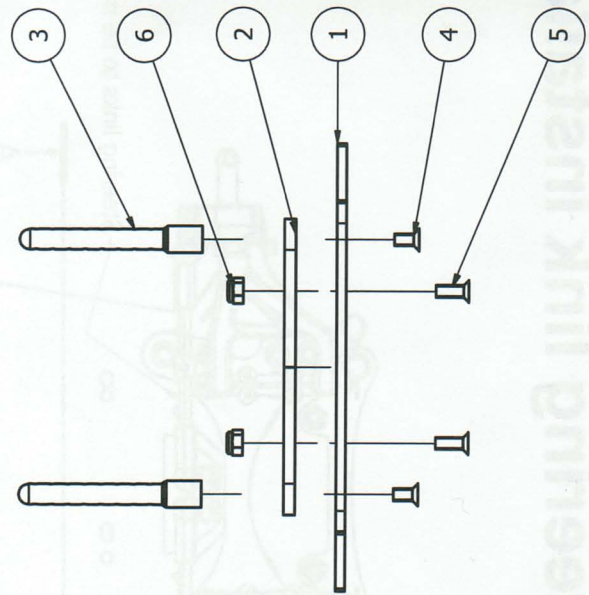
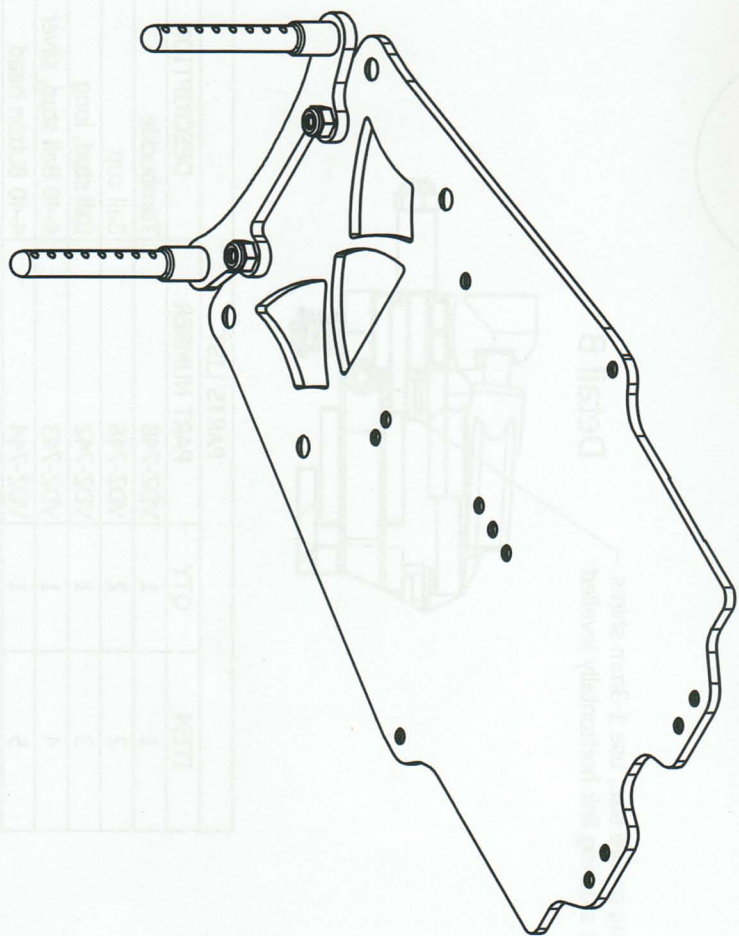
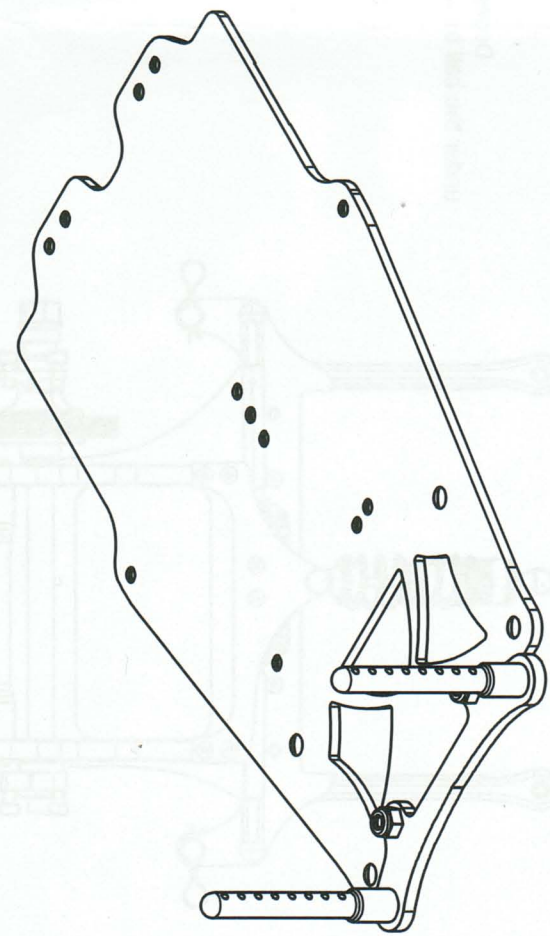


Detail B



PARTS LIST					
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	VDZ-748	Turnbuckle		
2	2	VDZ-748	Ball cup		
3	1	VDZ-742	Ball stud, long		
4	1	VDZ-743	4-40 Ball stud, silver		
5	1	VDZ-744	4-40 Button head		
6	1	VDZ-731	M3 Nut		

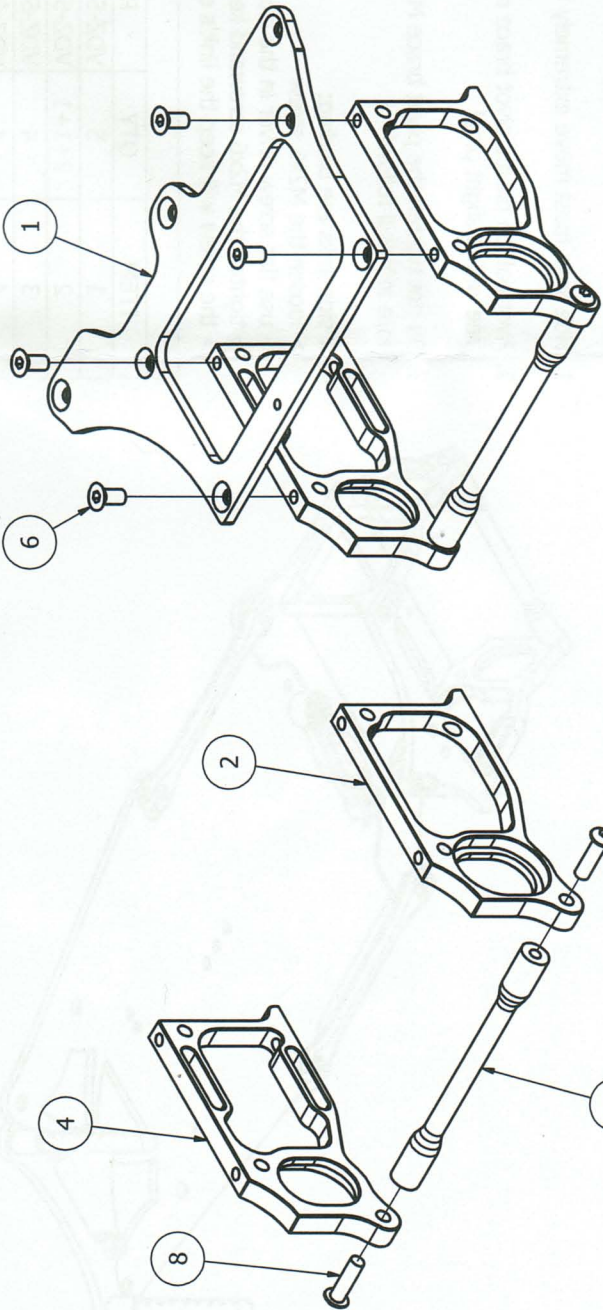
# Bag B - Bumber assembly



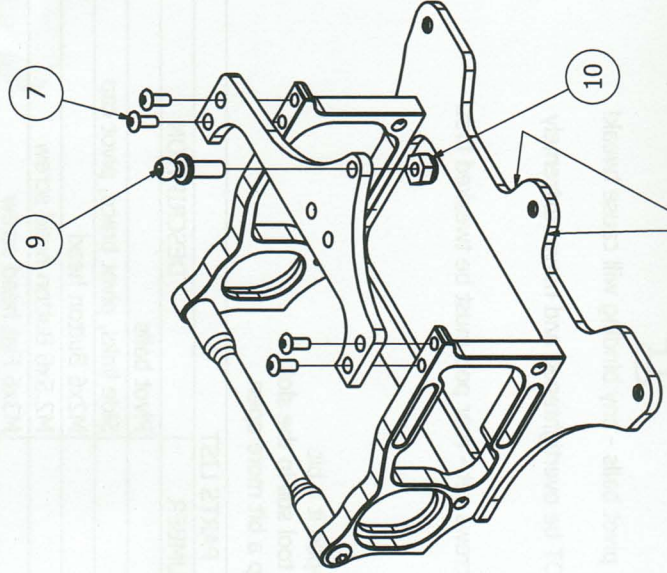
PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	VDZ-502	CR V chassis 2.25mm
2	1	VDZ-507	Bumber plate
3	2	VDZ-536	Body post
4	2	VDZ-724	M3x6 Flat head screw
5	2	VDZ-725	M3x8 Flat head screw
6	2	VDZ-731	M3 Nut

# Bag C - Rear pod assembly



Tighten after assembled on the lower pod plate



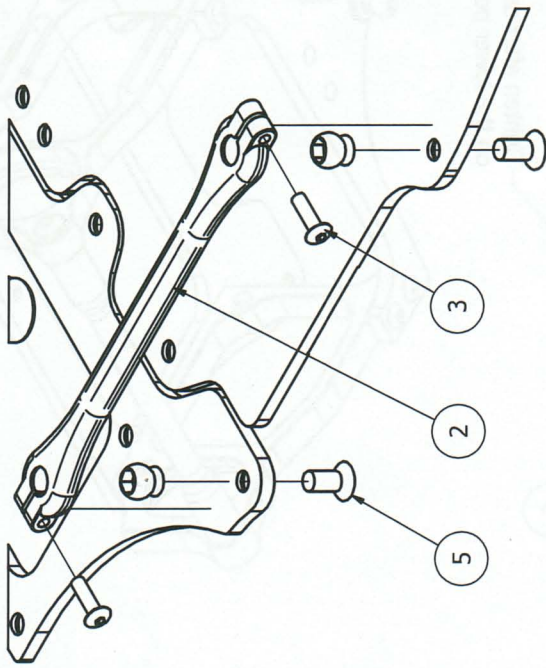
File the edges to allow more movement for rear pod

1. Lay the complete rear pod assembly to a flat surface for tightening the shock mount plate and rear brace when all parts are together to make sure nothing is tweaked.
2. Do not overtighten!

## PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	VDZ-503	CR V lower motor pod plate
2	1	VDZ-512	CR V motor pod L
3	1	VDZ-508	CR V pod brace
4	1	VDZ-511	CR V motor pod R
5	1	VDZ-504	Shock mount plate
6	4	VDZ-724	M3x6 Flat head screw
7	4	VDZ-722	M3x6 Button head Alum
8	2	VDZ-723	M3x10 Button head
9	1	VDZ-742	Ball-stud, long
10	1	VDZ-731	M3 Nut

# Bag D - Link suspension assembly



Cut off the 'bubbles' under the pivot brace after mounting the cap

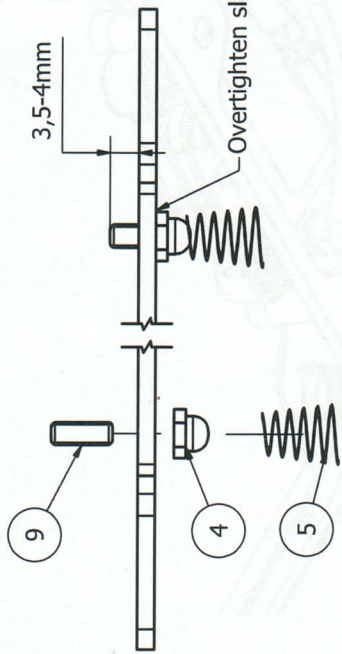
1. Side links must move extremely free on pivot balls - any binding will cause tweak!
2. Pivot ball on plastic pivot brace must NOT be overtightened and mover extremely free with a slight play!
3. Do not tighten the pivot brace M3x10 screws yet - rear pod must be tweaked first. More info will follow!
4. If side links are binding:
  - > loosen the M2x6 screw
  - > use flat screw driver in the slot and open it a bit
  - > tighten the M2x6 screw and keep the tool still in the slot
  - > the screw will keep the link's end loop a bit more open.

## PARTS LIST

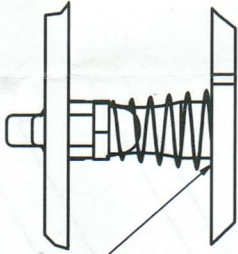
ITEM	QTY	PART NUMBER	DESCRIPTION
1	5	VDZ-538	Pivot balls
2	2+1+1	VDZ-526	Side links, pivot brace, pivot cap
3	4	VDZ-559	M2x6 Button head
4	4	VDZ-560	M2.5x6 Button head screw
5	6	VDZ-724	M3x6 Flat head screw
6	2	VDZ-726	M3x10 Flat head screw
7	2	VDZ-731	M3 Nut



# Bag E - Rear cross brace assembly



Detail A

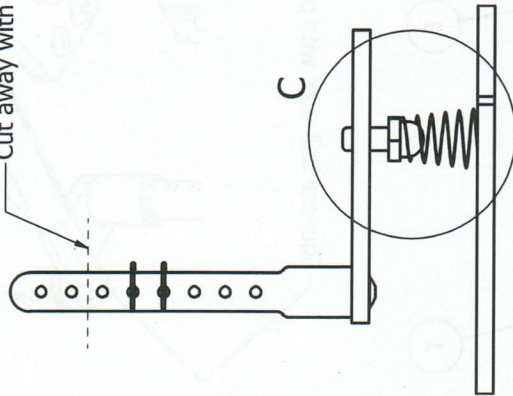


!NOTE!  
Setting the side springs is one of the most important things about the setup!

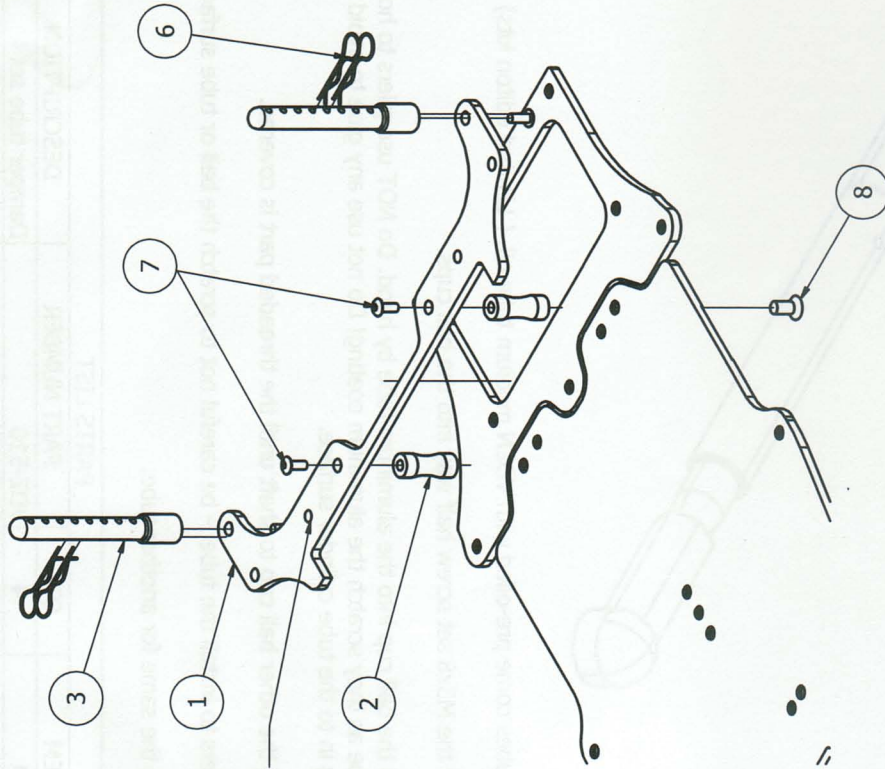
Actually - the preload is minimal or doesn't exist!  
Start rather with a little gap or flat than preload.

Normal fine tuning is 1/8 turn.

Cut away with hobby knife



1. Thread M3x8 set screws through the pre-threaded cross brace holes by 2mm with 1.5mm hex driver.
2. Use a vernier for measuring. Do same for both screws.
3. Hold the set screw on its place with the hex driver and tighten the spring retainer with a socket nut tool (not pliers!) to ensure that the retainer does not twist while tightening. Tighten until it reaches the cross brace.
4. Overtighten a bit - like ~ 1/2 to 3/4 turn - and you will notice that the spring retainer straightens itself against the surface. No more twisting spring retainers!
5. Mount the springs by clicking them around the spring retainers.
6. Set the preload to 0 mm against the lower motor pod plate. 1 turn = 0.5mm when setting side springs.



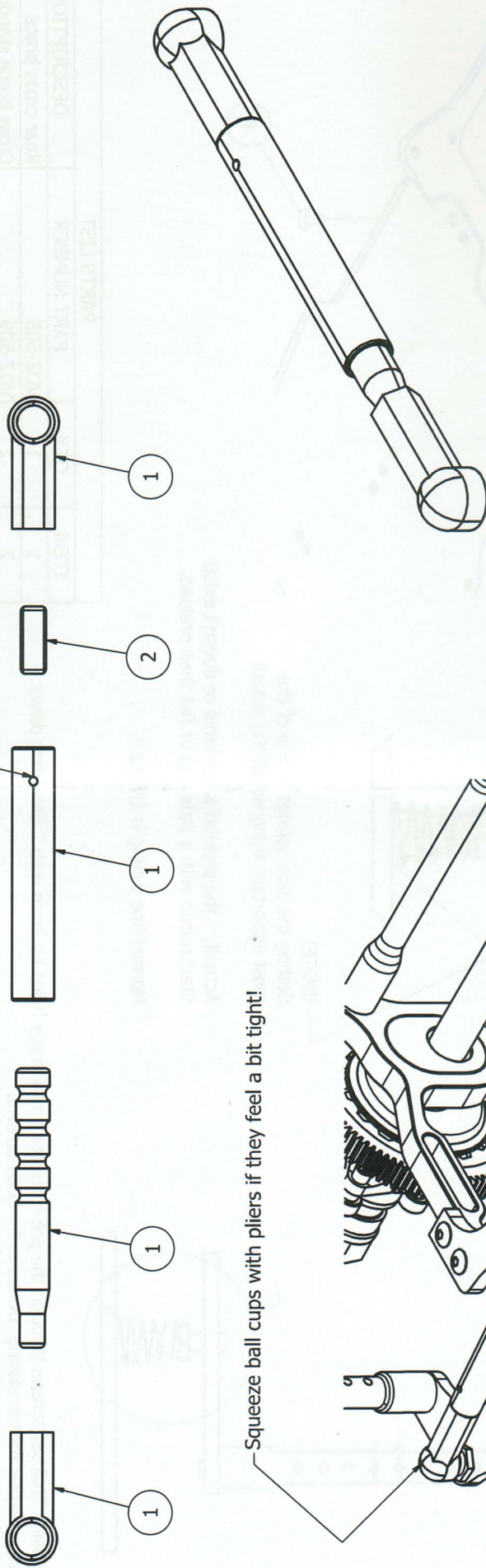
Pre-threaded holes for side springs

PARTS LIST

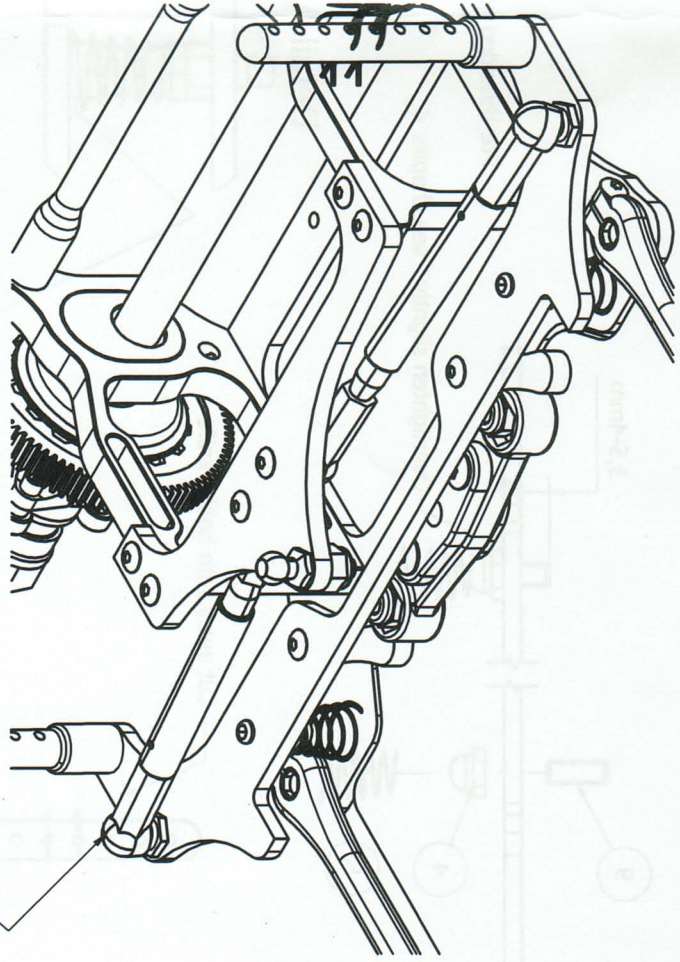
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	VDZ-505	Rear cross brace
2	2	VDZ-509	Cross brace standoffs
3	2	VDZ-536	Body post
4	2	VDZ-570	Spring retainer
5	2	VDZ-571	Side springs, blue
6	4	VDZ-537	Body clips
7	4	VDZ-722	M3x6 Button head Alum
8	2	VDZ-724	M3x6 Flat head screw
9	2	VDZ-730	Set screw M3x8

# Bag E - Tube assembly & installation

Air hole - do not thread the set screw too deep!



Squeeze ball cups with pliers if they feel a bit tight!

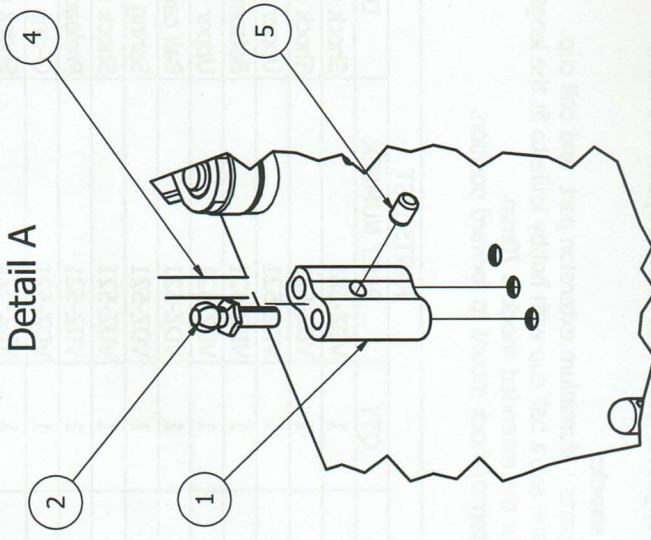


1. CR V tubes come pre-oiled with VDZN medium tube oil. ( Limited edition kits)
2. Thread the M3x8 set screw half way into the ball cups.
3. Thread the ball cup into the aluminum tube by hand. Do NOT use pliers to hold the tube as they scratch the aluminum coating! Do not use any glue to avoid getting in to the tube cylinder surface.
4. Thread the other ball cup to shaft until the threaded part is covered.
5. Use pliers to install the tube - be careful not to scratch the ball or tube surface!
6. Repeat the same for another tube.

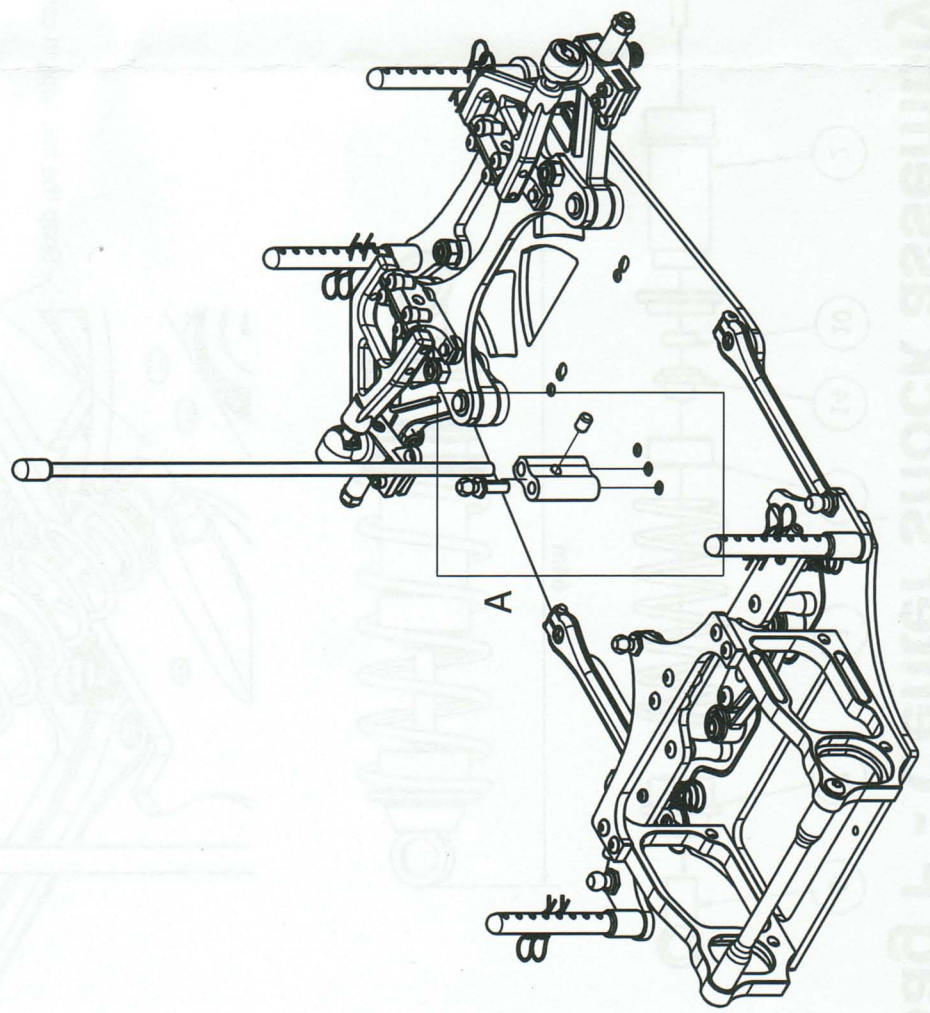
## PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	VDZ-510	Damper tube set
2	1	VDZ-730	Set screw M3x8

# Bag F - Antenna mount assembly



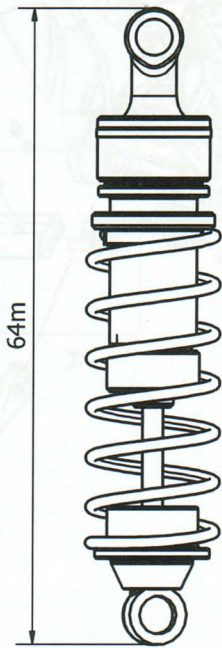
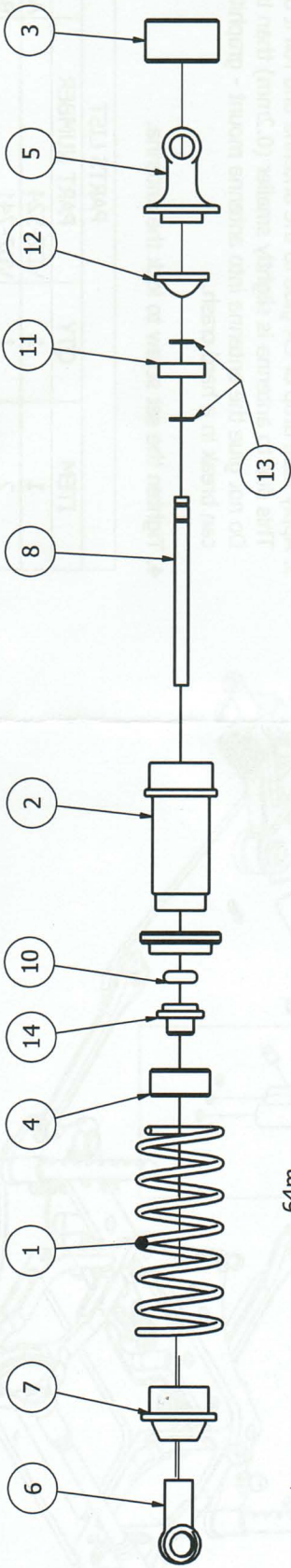
1. There are 2 positions for shock center shock, short and long. Start with short option.
2. The shock/antenna mount is mounted to the most rear holes - see Detail A.
3. Apply little drop of CA glue to the antenna and roll it on a pit towel or paper. This due to antenna is slightly smaller (0.2mm) than the hole for antenna. Do not glue the antenna into antenna mount - graphite roll-over antenna can break in a hard crash.
4. Tighten the set screw to lock the antenna.



## PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	VDZ-524	Antenna mount
2	1	VDZ-741	Ball-end, short
3	2	VDZ-724	M3x6 Flat head screw
4	1	VDZ-539	Roll-over antenna
5	1	VDZ-733	M3x4 set screw

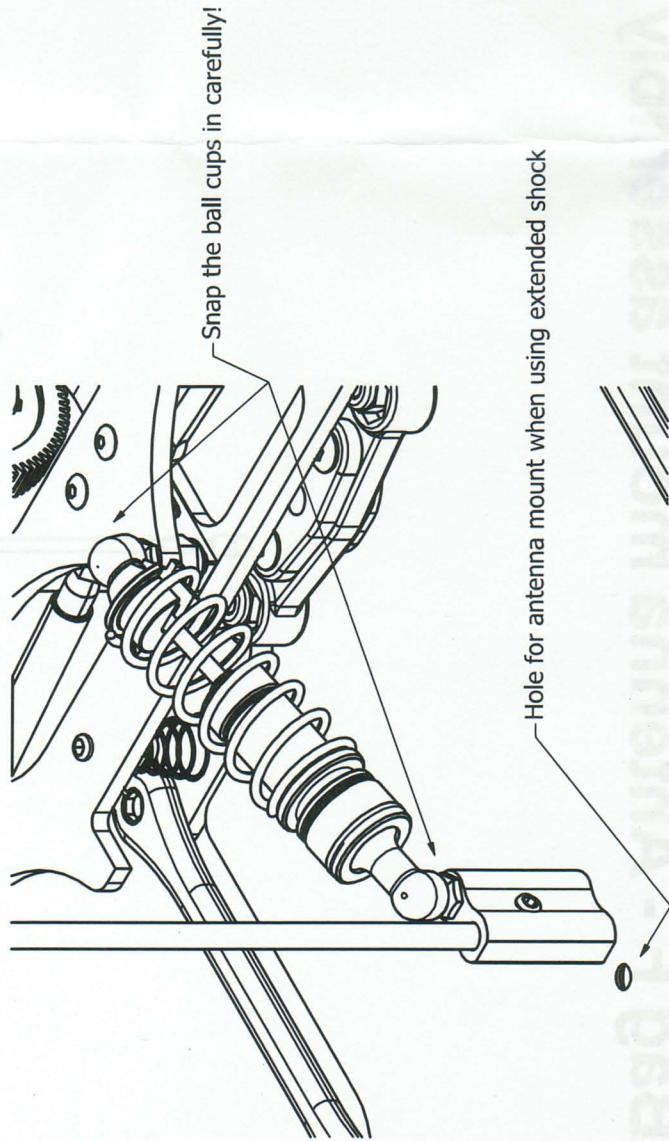
# Bag F - Center shock assembly & installation



1. To make the shock maximum smooth, work the piston a bit to make it round on edges. You can do this by using a Dremel tool or similar after the piston is assembled to the shaft and locked with e-clips.
2. It is recommended to use AE 35w oil or similar from other brands.
3. Starting length for the shock in short option is 64mm.

### Extended shock:

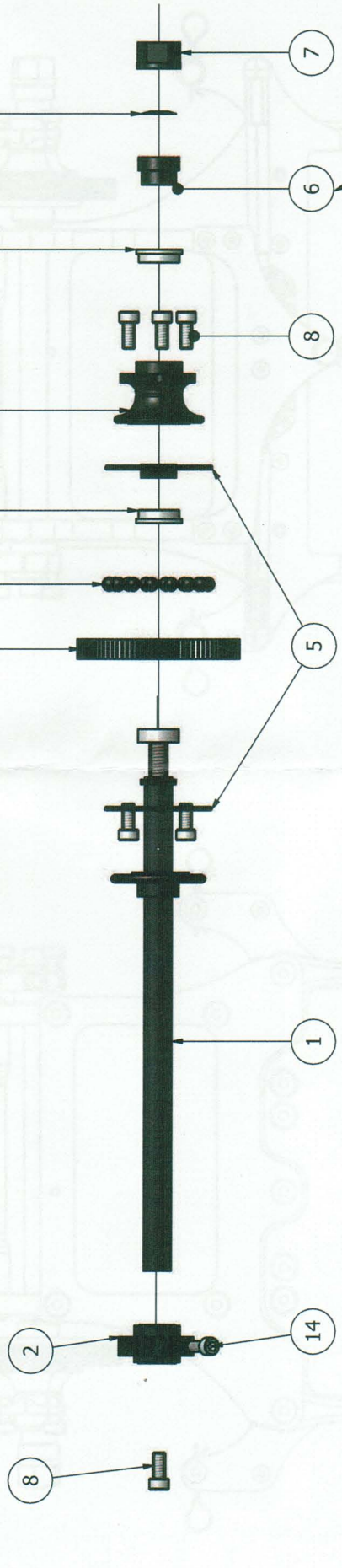
1. Needed parts : aluminium extension part and ball cup.
2. Shorten the extra ball cup with hobby knife to fit the length.
3. Length for the extended shock is 70mm.
4. Move antenna/shock mount to forward position.



### PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	VDZ-581	Shock spring, gold
2	1	VDZ-521	Shock cylinder
3	1	VDZ-521	Upper nut
4	1	VDZ-521	Bottom nut
5	1	VDZ-521	Upper ball cup
6	1	VDZ-521	Ball cap, short
7	1	VDZ-521	Spring plate
8	1	VDZ-521	Shock shaft
9	1	VDZ-521	Preload nut
10	1	VDZ-521	O-ring
11	1	VDZ-521	Shock piston
12	1	VDZ-521	Bladder
13	2	VDZ-521	e-clip, small
14	1	VDZ-521	Bottom plastic adapter

# Bag G - Rear axle assembly

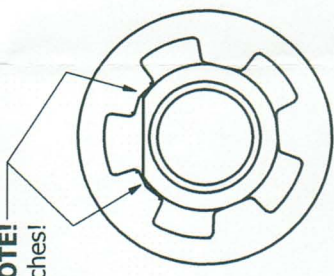


**Recommendations:**

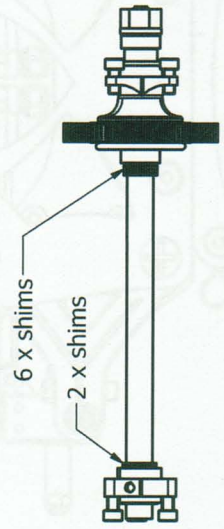
- °Polish diff rings with #1000-1200 abrasive paper for smoother performance.
- °Use Team V-Dezign Diff grease - apply only small amount of grease to diff rings. If using other brands (i.e. Team AE #6636) apply about half capacity of grease for 8-10 holes.
- °Apply small amount of grease to diff rings back side to keep them in place while assemble.
- °Diff needs some run-in (1-pack) - DO NOT overtighten the diff nut! Pay attention also for the left clamp screw when tightening it on the axle.

**Remember to keep the diff always smooth & non-slipping!**

**!NOTE!**  
Place the diff rings according to notches!



Axle shims for Jaco wheels:



PARTS LIST			DESCRIPTION
ITEM	QTY	PART NUMBER	
1	1	VDZ-520	Rear axle
2	1	VDZ-522	Left axle clamp
3	3	VDZ-523	Diff hub
4	1	VDZ-528	Xenon VSS 64dp 90t
5	2	VDZ-529	Lite diff rings
6	1	VDZ-530	Diff bushing
7	1	VDZ-534	Diff nut, plastic
8	6	VDZ-532	4-40 X 1/4" SS SHCS
9	1	VDZ-533	8x4.2x0.4mm Belleville
10	2	VDB-14F	1/4" X 3/8" Flanged
11	1	VDB-14P	1/4" X 3/8" Plain
12	16	VDB-18D	1/8" Ceramic ball
14	1	VDZ-531	M2.5x6mm Socket
15	8	VDZ-735	Rear axle shims

