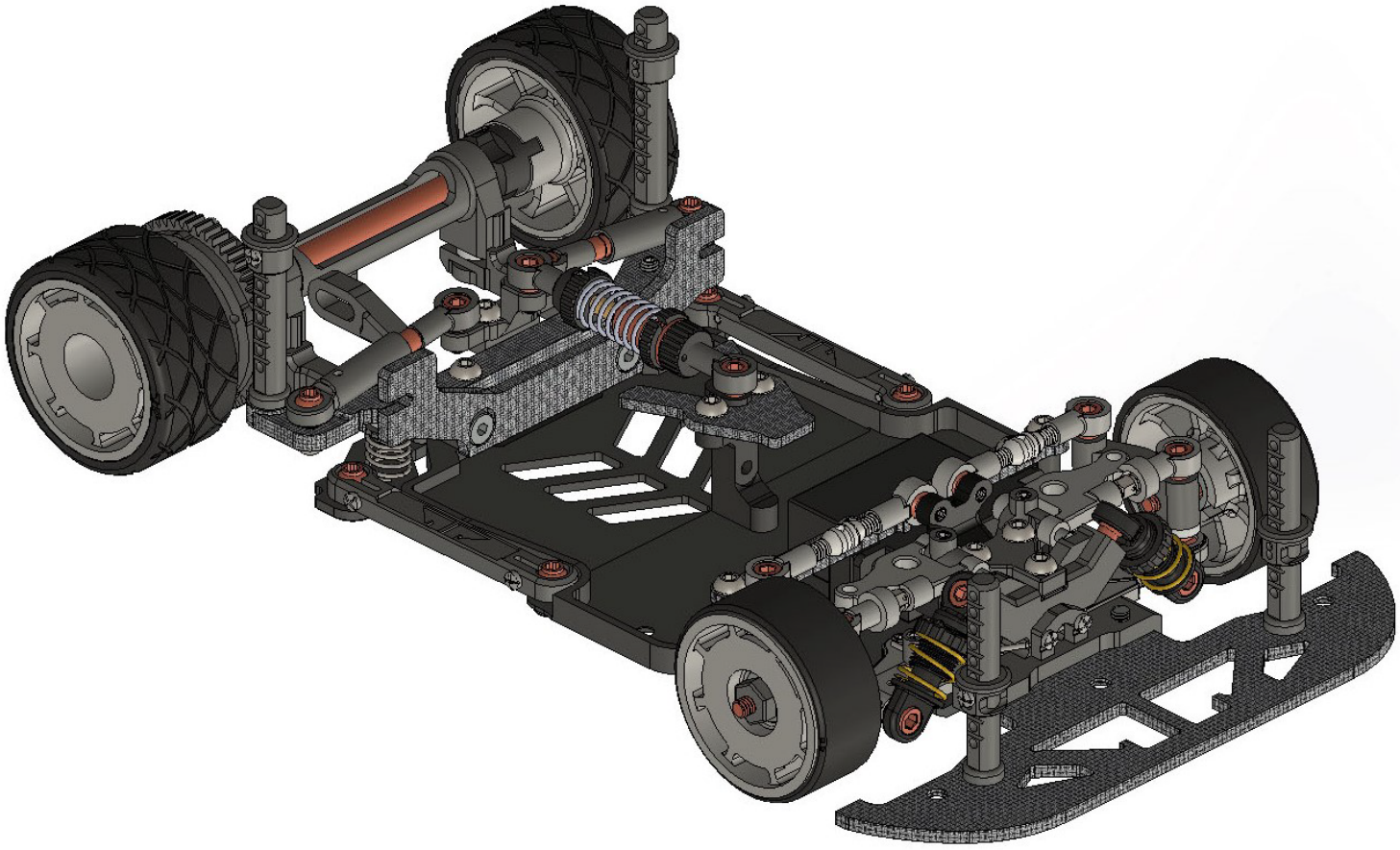
RX28 SE

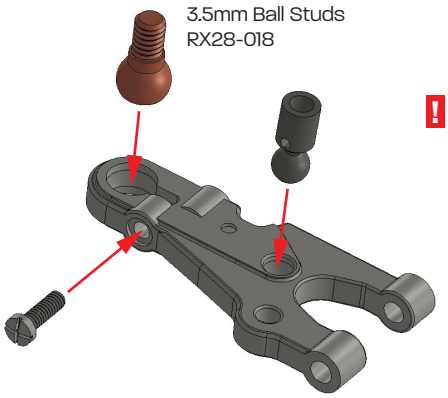
INSTRUCTION MANUAL



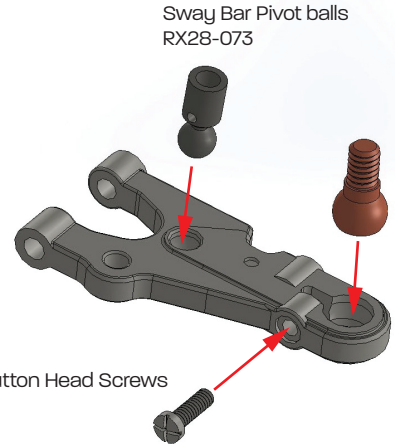
REFLEX RACING

VER 1.01

1 FRONT SUSPENSION LOWER ARM

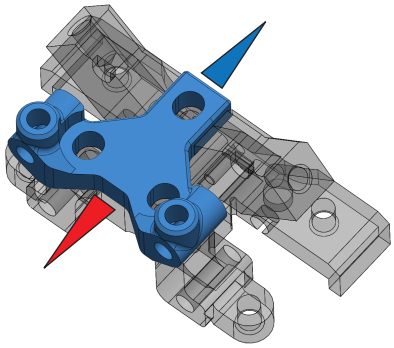


! Insert pivot balls and sway bar into lower arm.



! Tighten the Screw to eliminate any slop in the pivot ball. Be careful not to bind the ball. Build L/R sides.

2 FRONT SUSPENSION UPPER MOUNT

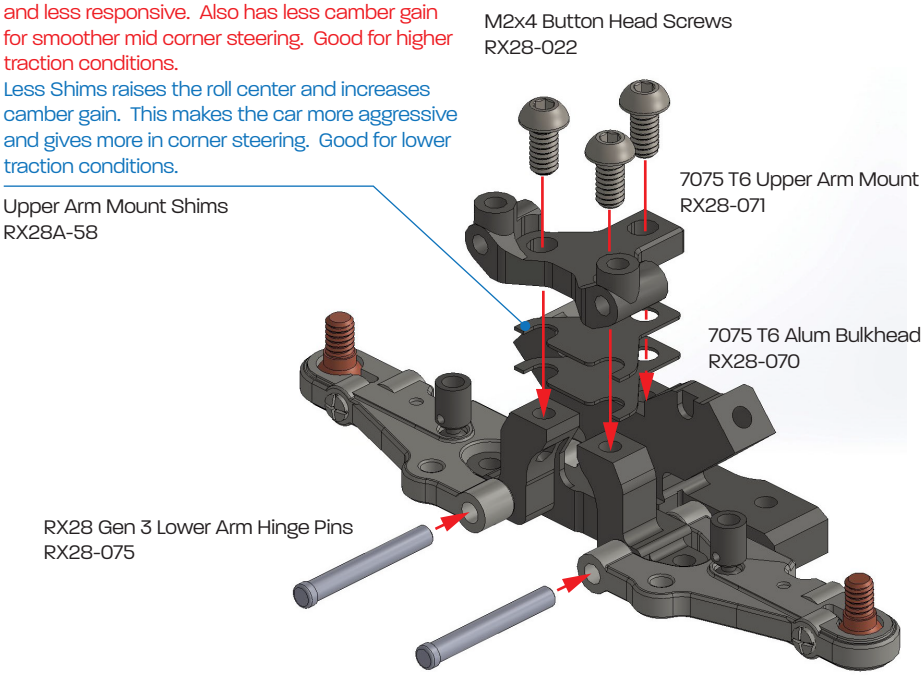


CASTER :

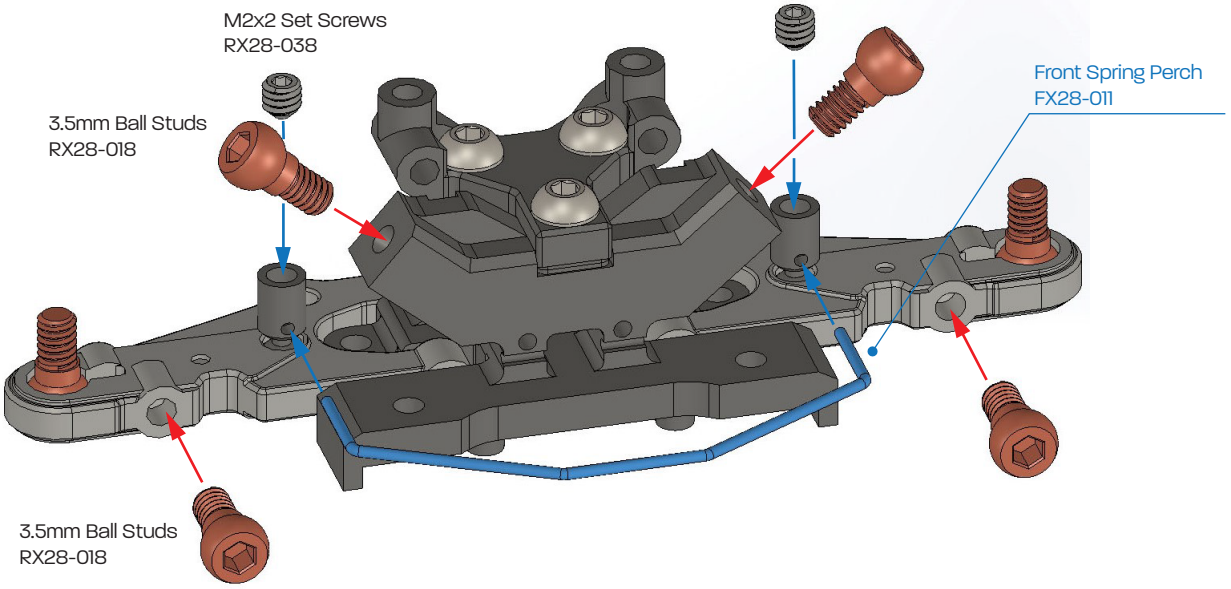
Move upper arm to rearward position (3.5*) to gain more straight line stability and more in corner steering.
Move upper arm mount forward (2.0*) for More initial response, but flatter and more predictable cornering.

ROLL CENTER SHIMS :

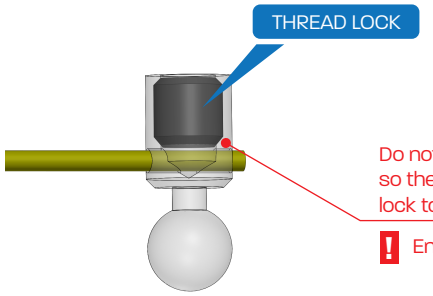
More lowers the roll center. This allows the car to roll more and makes the car easier to drive and less responsive. Also has less camber gain for smoother mid corner steering. Good for higher traction conditions.
Less Shims raises the roll center and increases camber gain. This makes the car more aggressive and gives more in corner steering. Good for lower traction conditions.



3 FRONT DAMPER BALL STUDS AND SWAY BAR



SWAY BAR



TRANSPARENCY VIEW

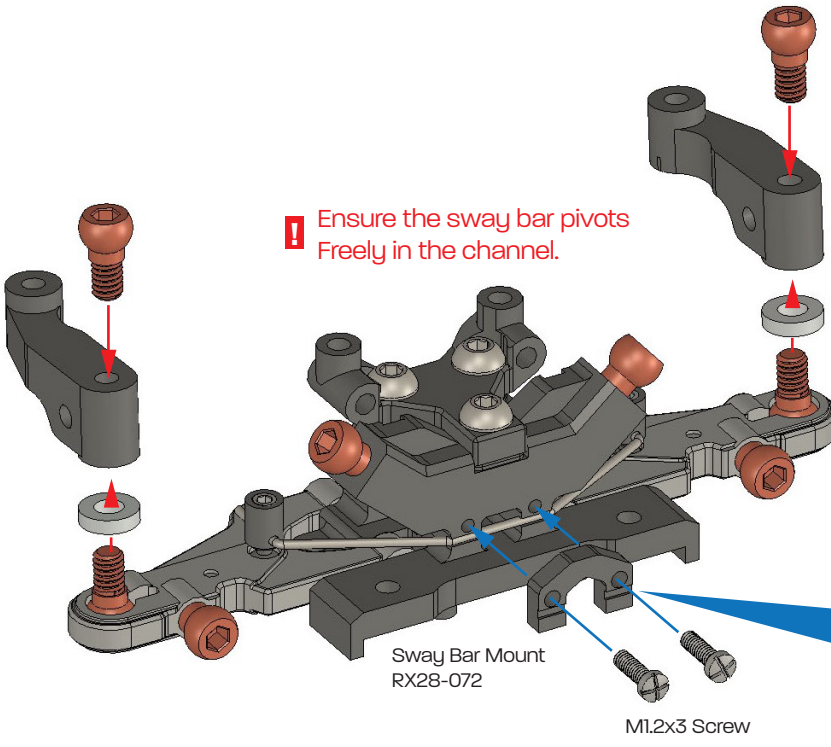
Do not tighten the set screws all the way, just so thescrew hits the bar. Apply some thread lock to hold in place.

! Ensure free movement.

SWAY BAR

Front Sway Bar		
RX28A-60	Soft	
RX28A-61	Medium	KIT
RX28A-62	Hard	

4 STEERING KNUCKLES AND SWAY BAR

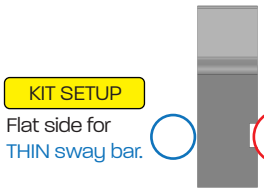


! Ensure the sway bar pivots Freely in the channel.

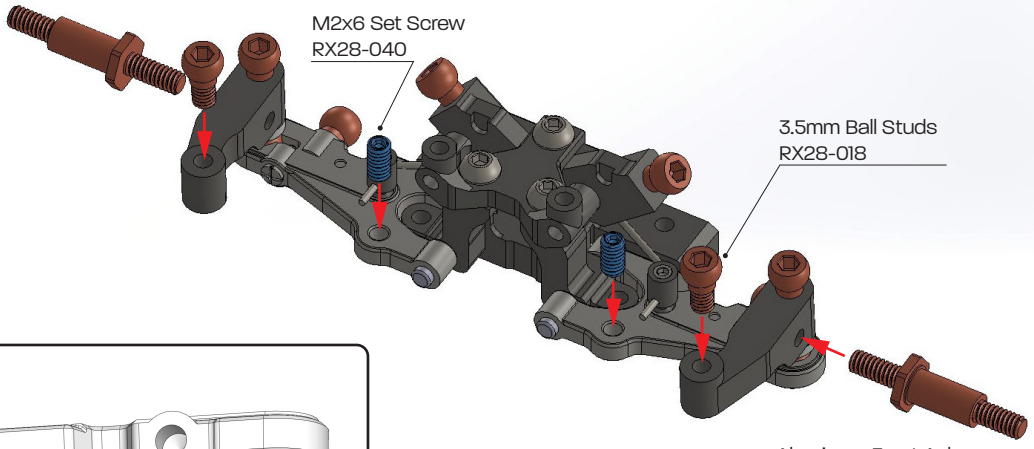
SWAY BAR HOLDER

! Note the holder direction.

The sway bar holder has 2 sides for different thickness bars.

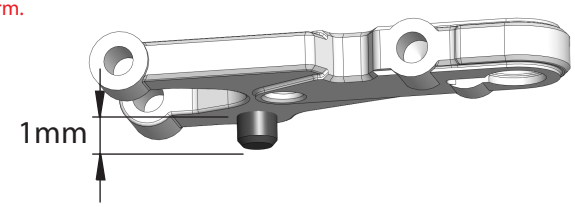


5 FRONT AXLES AND FRONT DROOP SCREWS



DROOP SCREWS

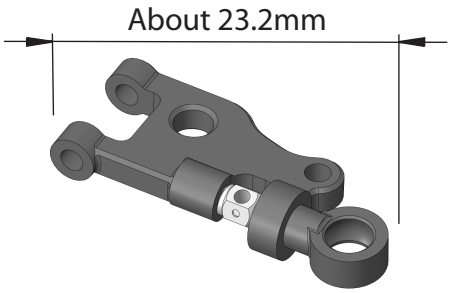
Set screw should be about 1mm below the arm.

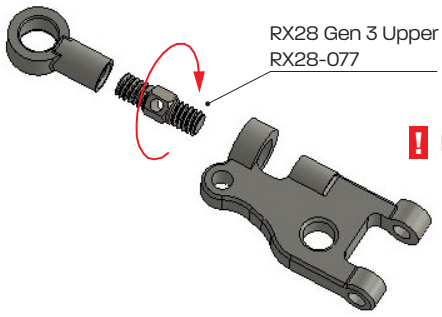


6 FRONT UPPER ARMS AND LOWER ARM PINS

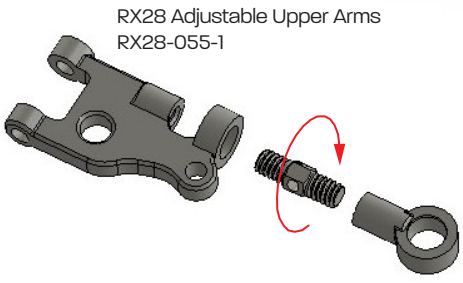
UPPER ARM LENGTH

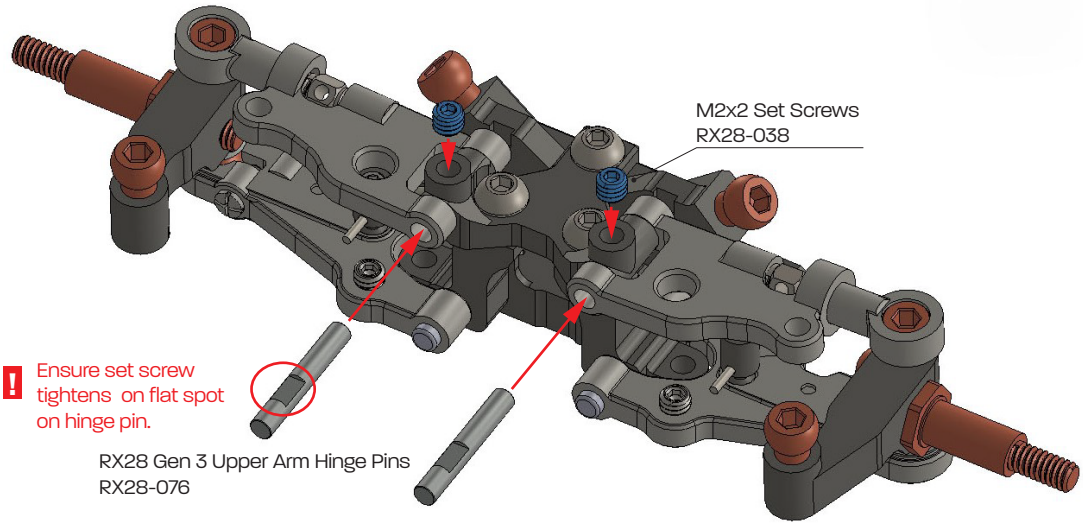
Adjust upper arm length via the turnbuckle.
A shorter upper arm will give more camber.
Start with a total length of about 23.2mm.



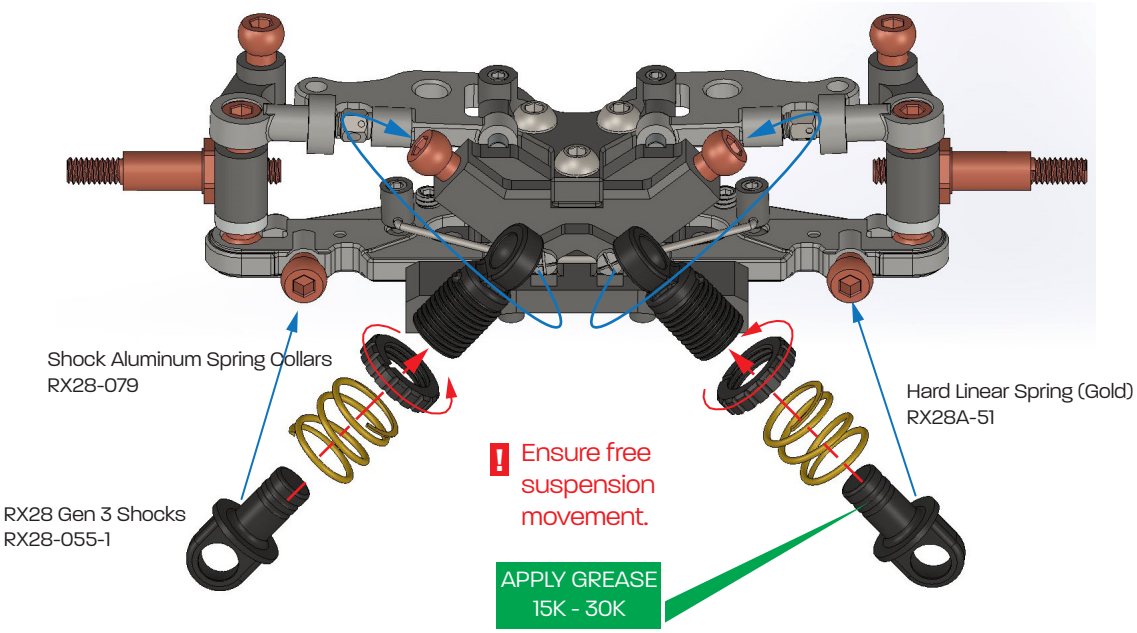


! Build L/R Sides.





7 FRONT DAMPERS



FRONT SPRING :

Harder Spring :
More on-power steering but more traction roll.
Softer Spring :
More off power steering, less traction roll.

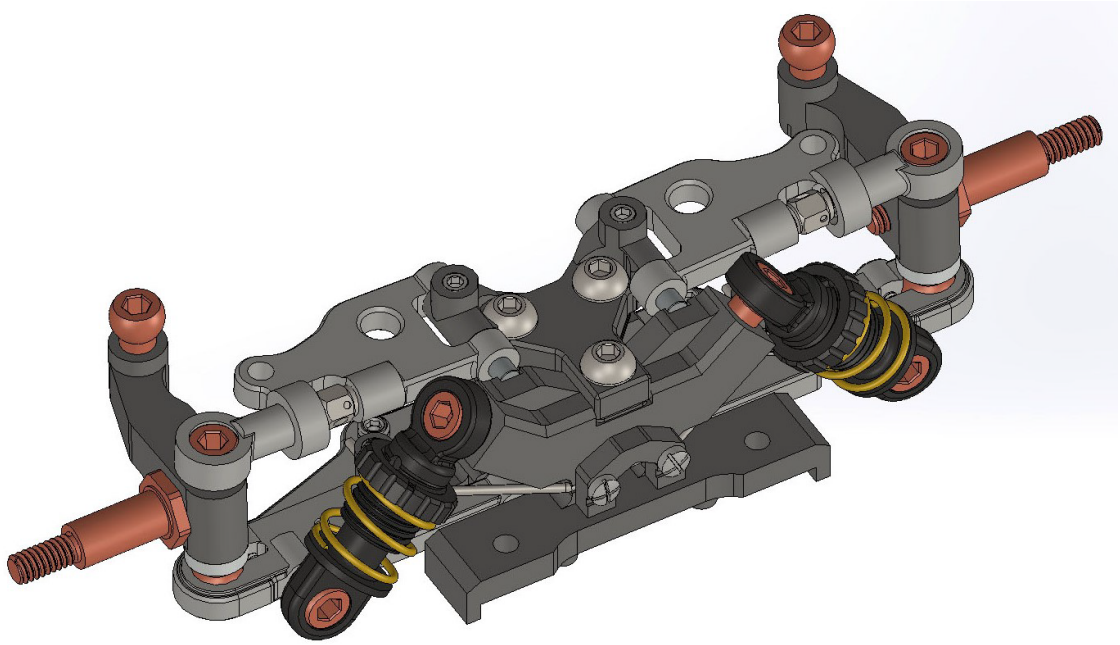


Front Spring	
RX28A-48	Soft (Gray)
RX28A-49	Medium Linear (Black)
RX28A-50	Medium Progressive (Silver)
RX28A-51	Hard Linear (Gold) KIT

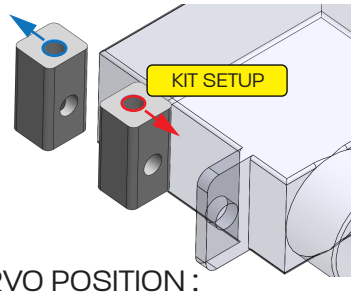
SHOCK ANGLE :

More Layed Down :
Smoother steering, less response.
More Vertical :
More direct feel and more response.
Good for tight corners and 180's.

8 RX28D G3 & RX28SE G3 FRONT SUSPENSION



9 SERVO INSTALLATION

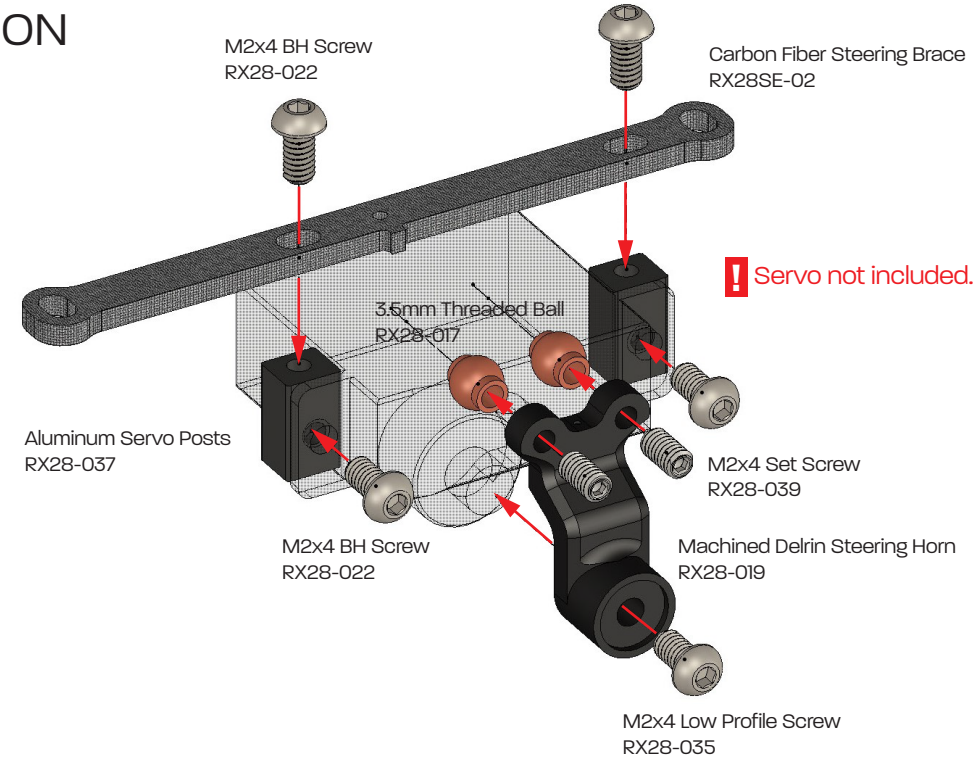


SERVO POSITION :

Rotate the direction of servo post to change the servo position forward/rearward (+/-0.5mm). Servo position depends on electronics.

Move servo forward. KIT SETUP
Less ackerman, more in corner steering.

Move servo rearward.
More Ackermann, smoother steering, less in corner steering.



OPTION SERVO HORN

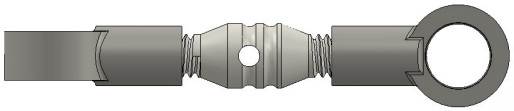
OPTION

RX28 Linear Steering Horn
RX28A-40

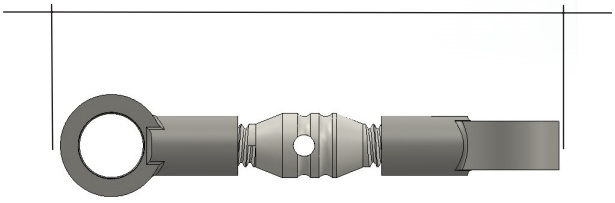
RX28 Short Steering Horn
RX28A-41

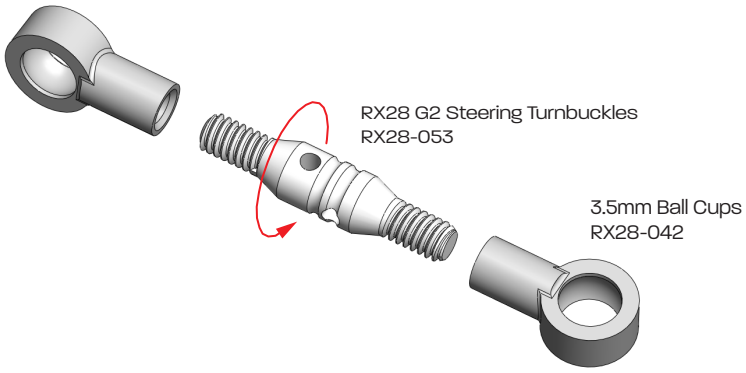
10 STEERING LINKAGES

! Build L/R sides.



Approximately 25mm

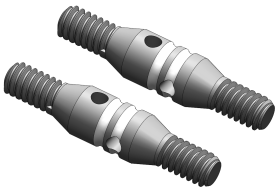




OPTION ALUMINUM TURNBUCKLE SET

OPTION

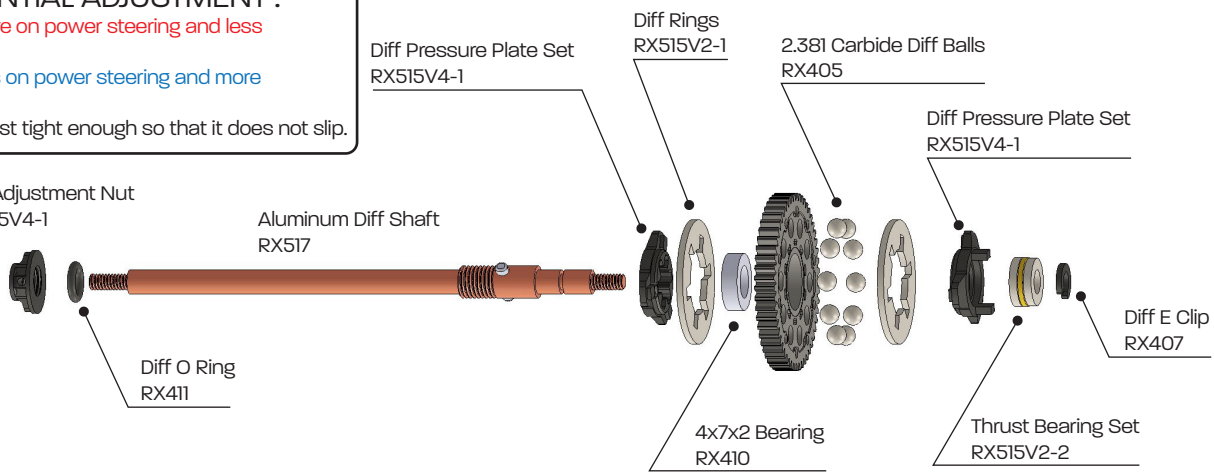
RX28 Aluminum Turnbuckles
RX28A-44



11 BALL DIFFERENTIAL

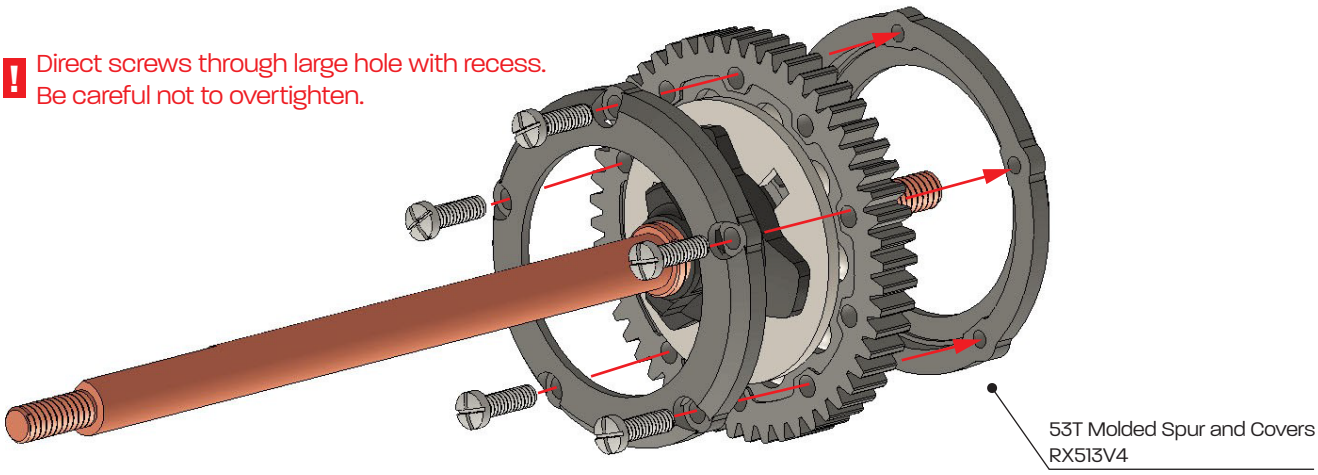
Reflex Racing V4 Ball Differential
RX515V4

BALL DIFFERENTIAL ADJUSTMENT :
Tighter diff gives more on power steering and less entry steering.
Looser diff gives less on power steering and more turn in.
Set the diff initially just tight enough so that it does not slip.

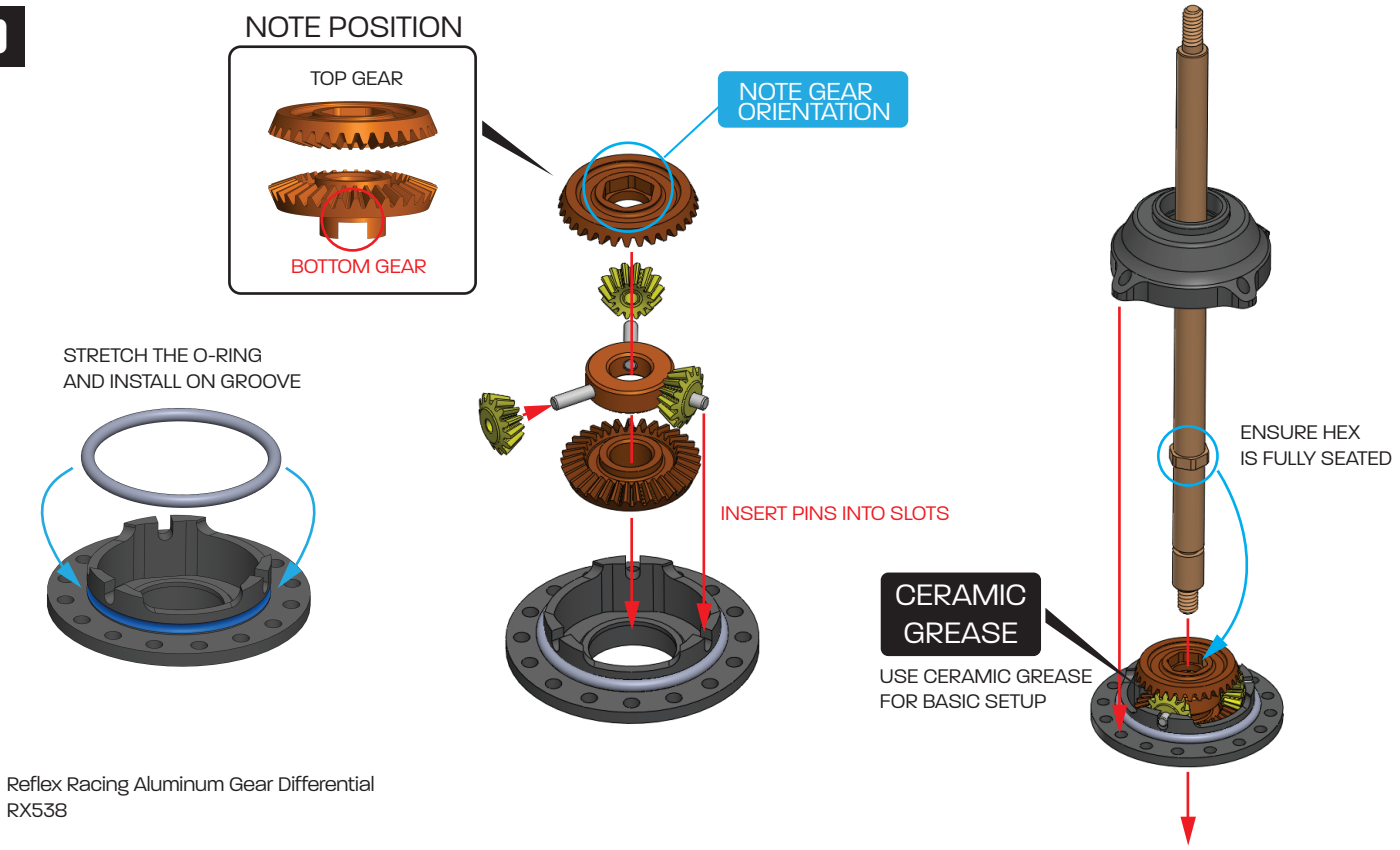


12 BALL DIFFERENTIAL

! Direct screws through large hole with recess.
Be careful not to overtighten.

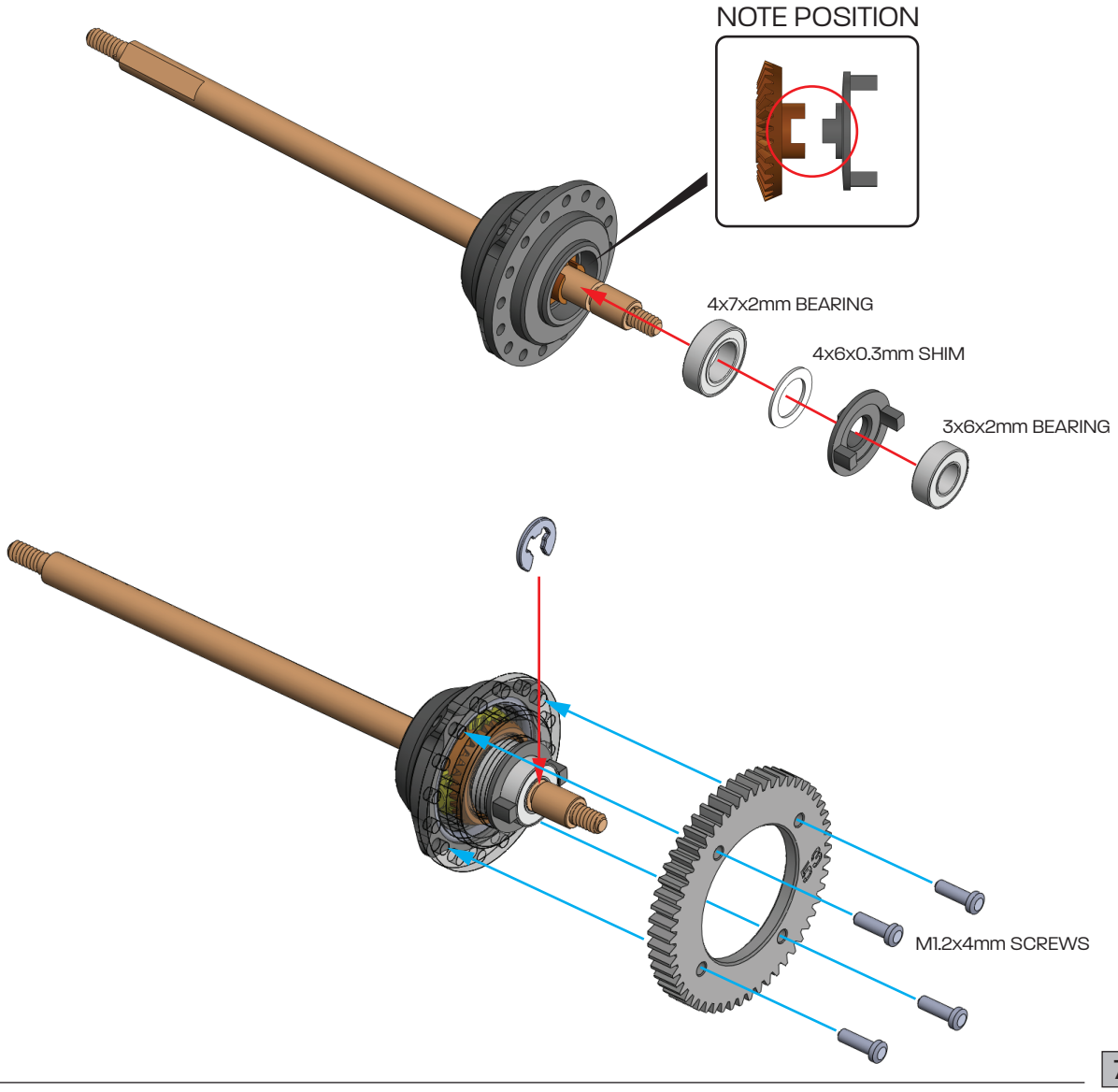


13

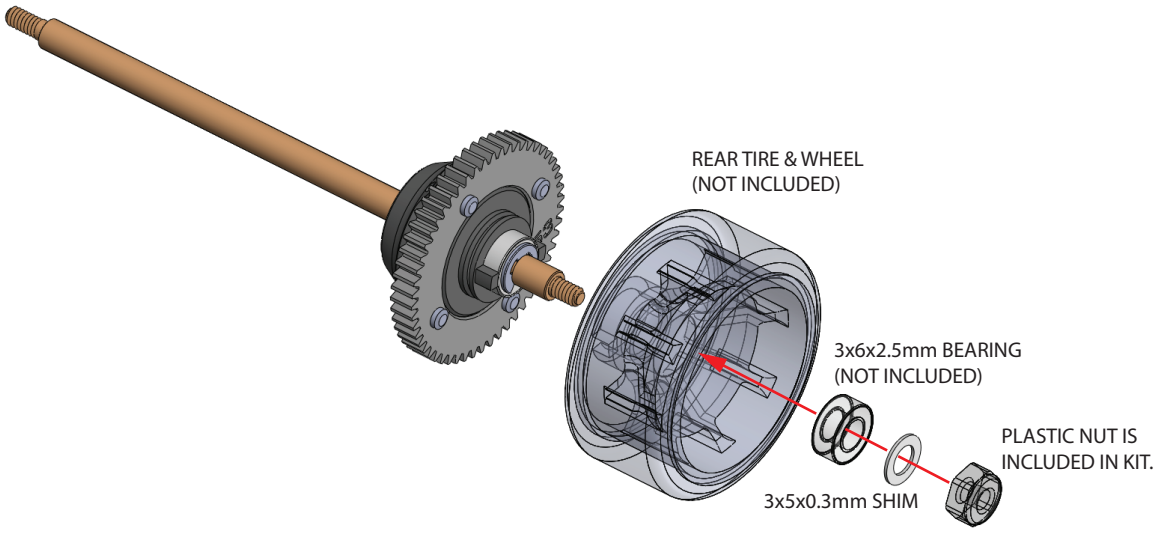


Reflex Racing Aluminum Gear Differential
RX538

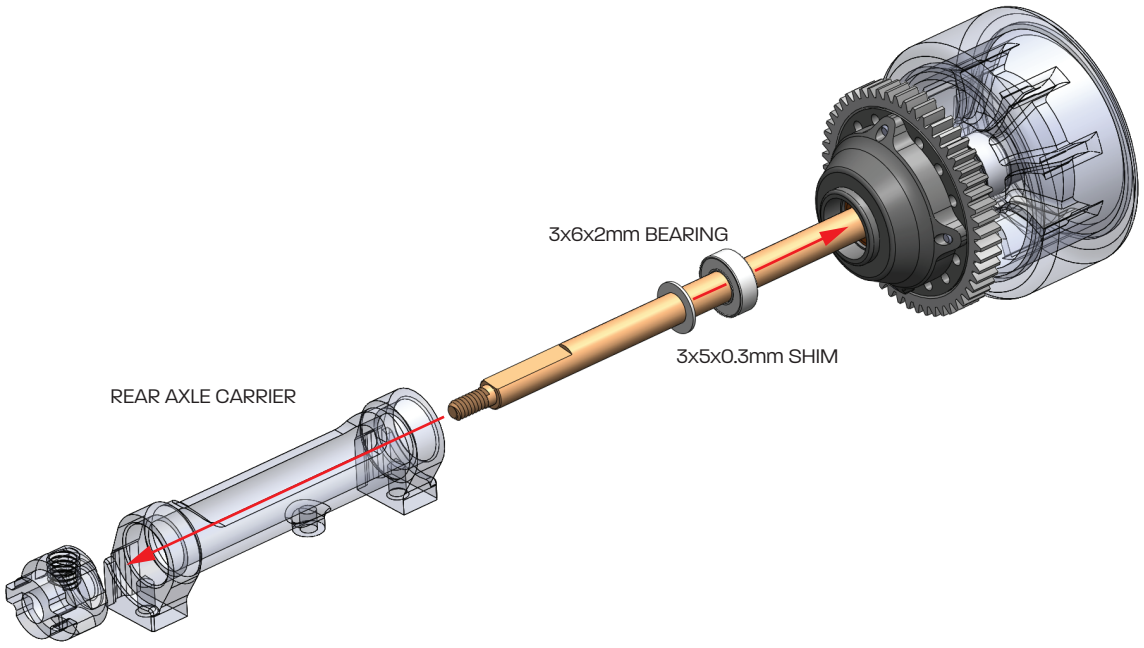
14

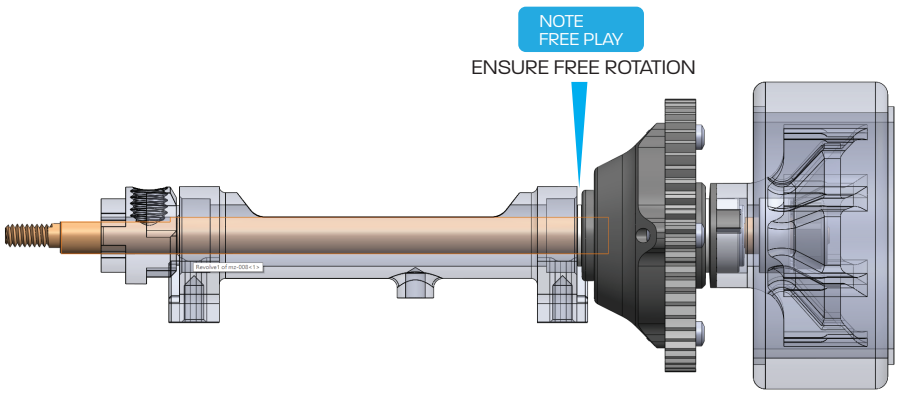


15 GEAR DIFFERENTIAL

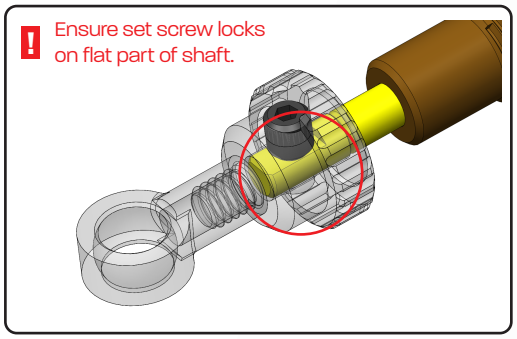


16



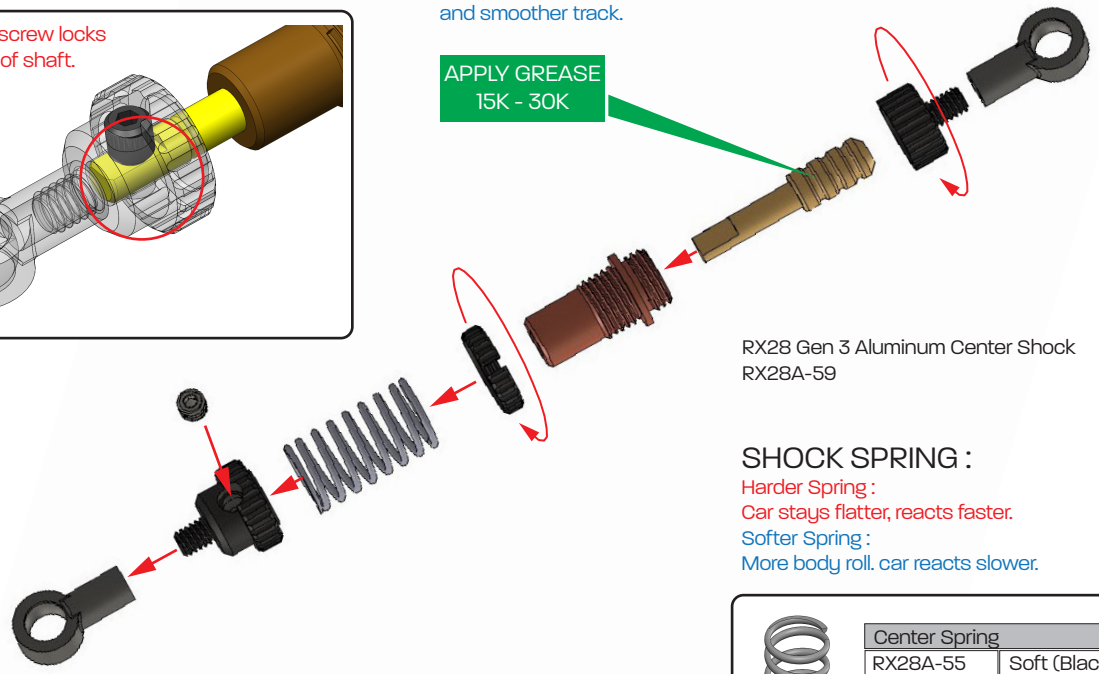


17 CENTER SHOCK MOUNT



DAMPER GREASE :

Harder Grease :
Better for bumpy track but takes away forward bite.
Softer Grease :
Reacts quicker and is better for slower classes
and smoother track.



RX28 Gen 3 Aluminum Center Shock
RX28A-59

SHOCK SPRING :

Harder Spring :
Car stays flatter, reacts faster.
Softer Spring :
More body roll. car reacts slower.

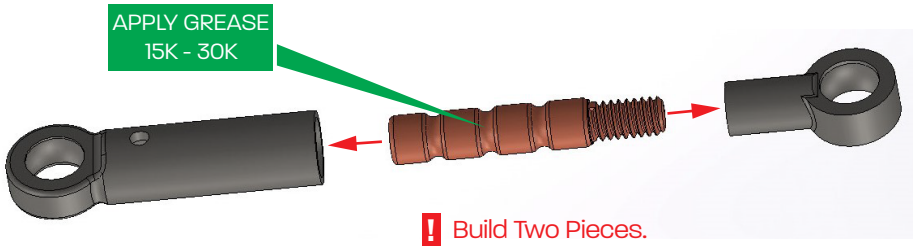


Center Spring		
RX28A-55	Soft (Black)	
RX28A-56	Medium (Silver)	KIT
RX28A-57	Hard (Gold)	

18 SIDE SHOCKS

SIDE SHOCKS GREASE :

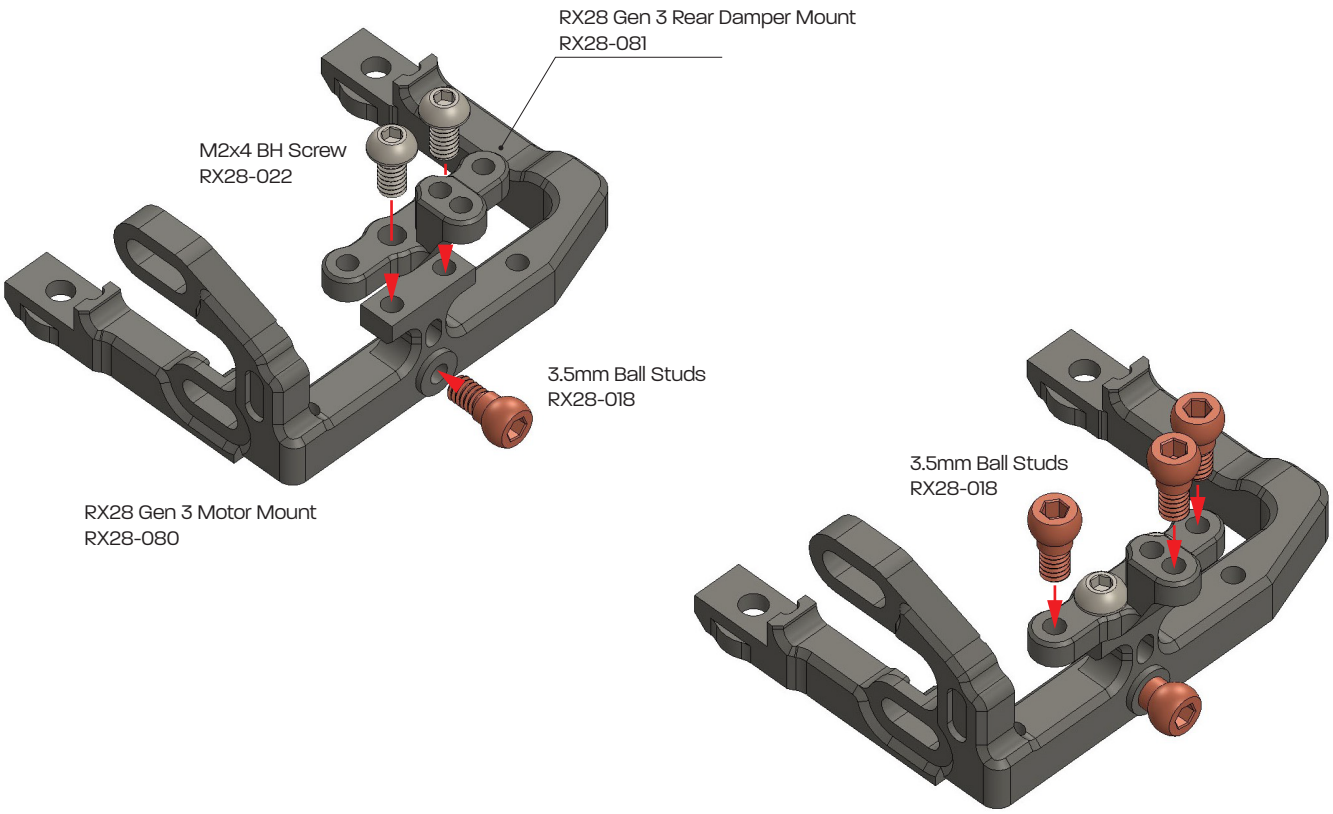
Harder Grease :
Slows rate of roll on the car and provides more stability up to a certain point.
Softer Grease :
Allows the car to react faster and roll harder.



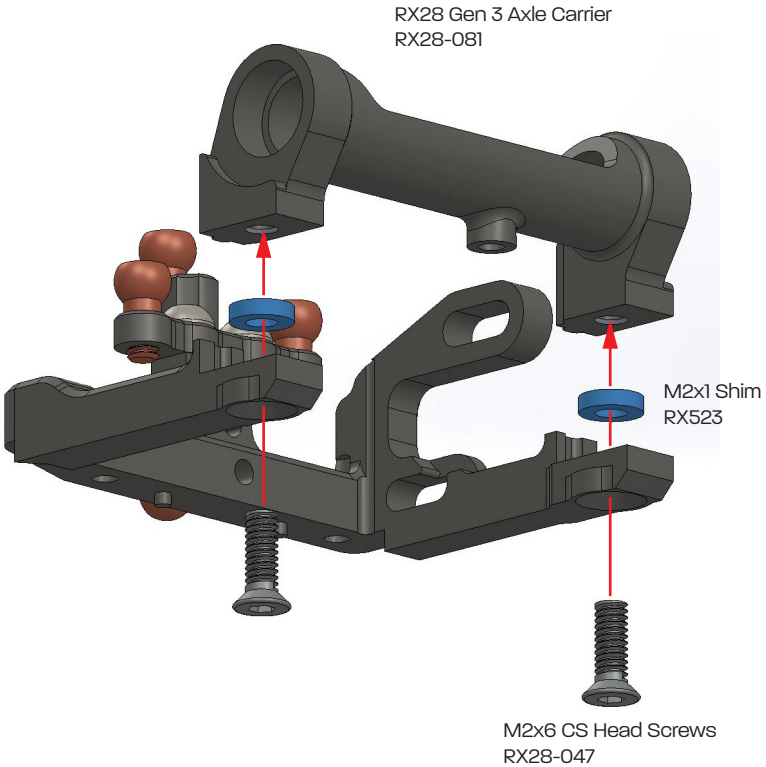
Build Two Pieces.

Hardcoated 7075 T6 Aluminum Damper Piston
RX28-054

19 MOTOR MOUNT AND SHOCK MOUNT



20 REAR AXLE CARRIER

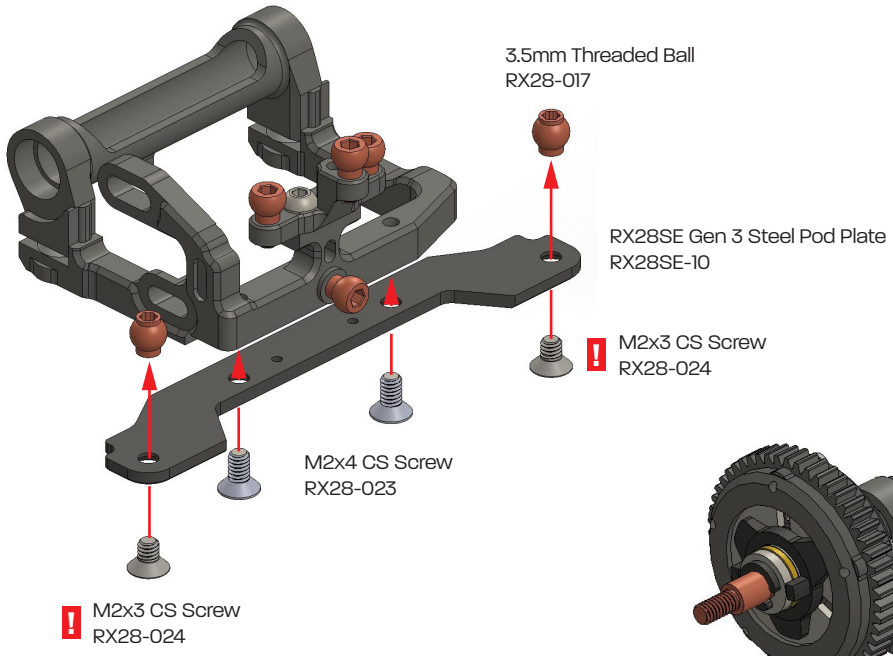


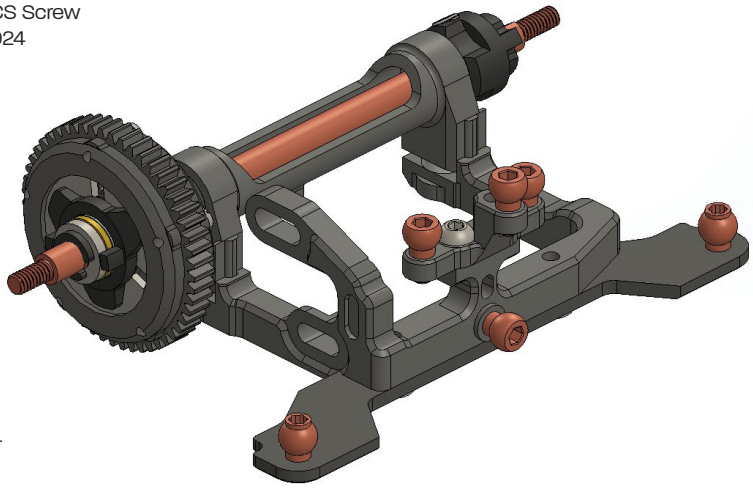
! Build L/R Sides.

REAR RIDE HEIGHT :
More Shims :
Lower rear ride height. Increase rear stability.
Less Shims :
Higher rear ride height. Increase steering respoinse.

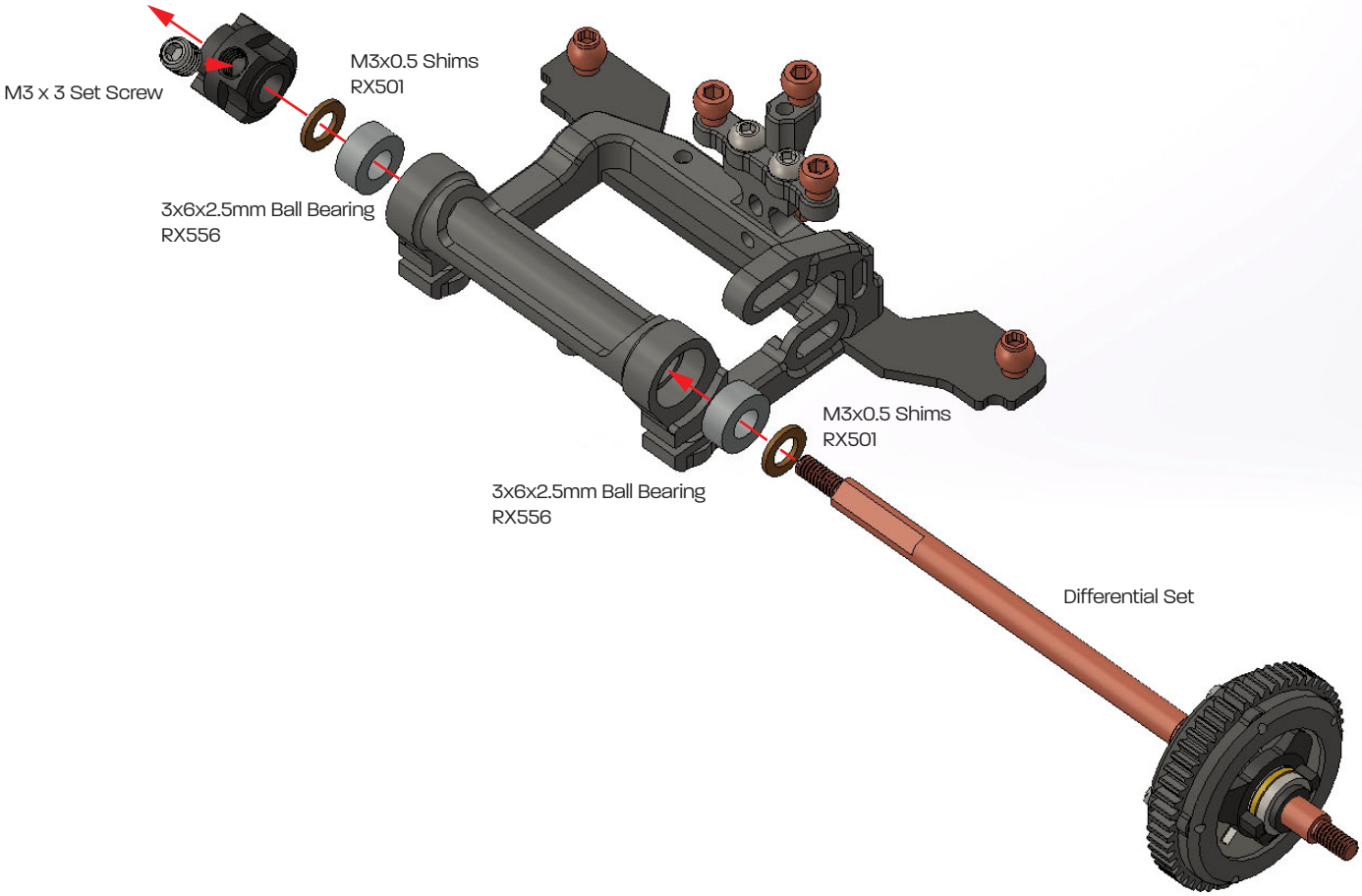
! Recommended basic setup
Front : 2mm
Rear : 2mm

21 STEEL REAR PLATE

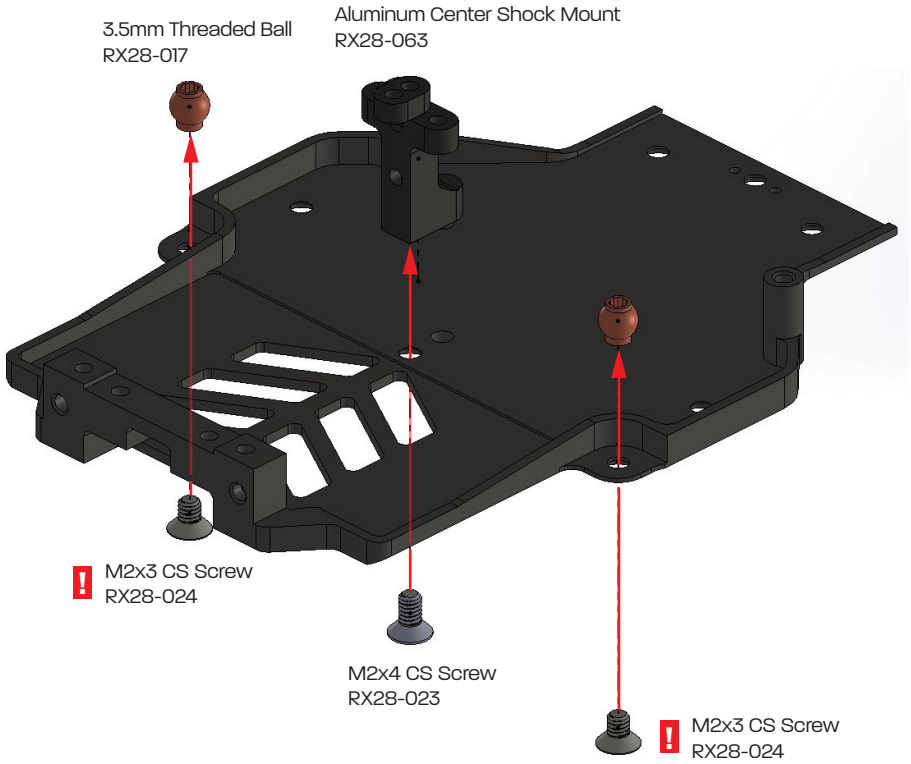




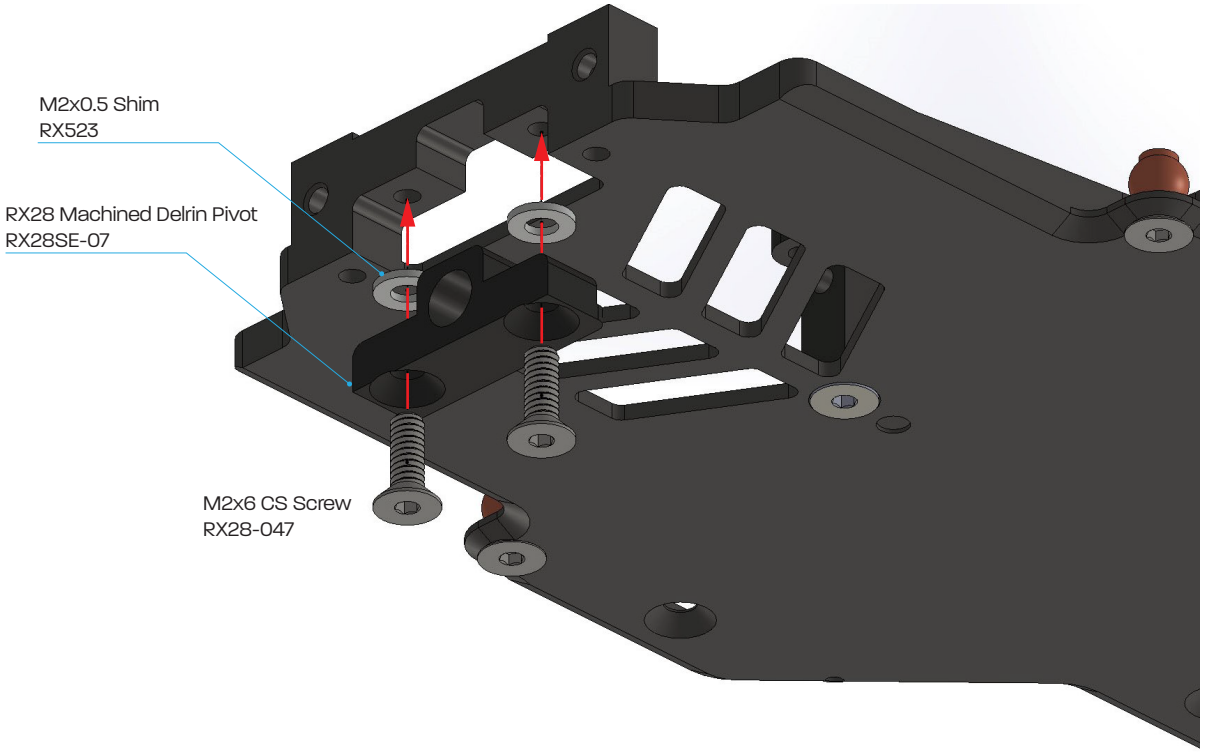
22 DIFFERENTIAL AND WHEEL HUB



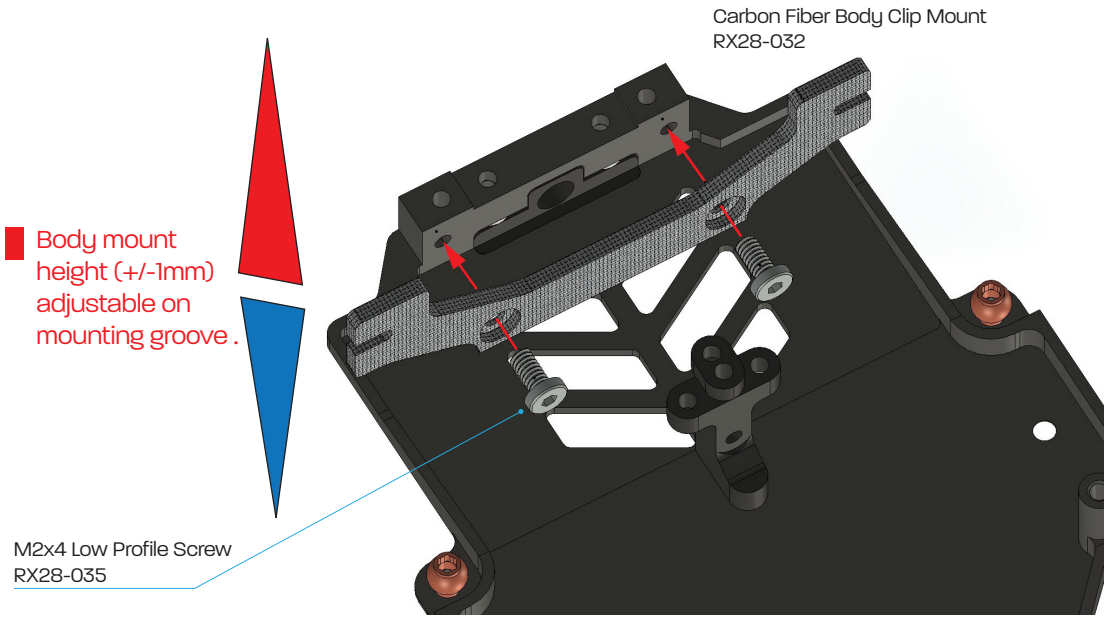
23 CENTER SHOCK MOUNT



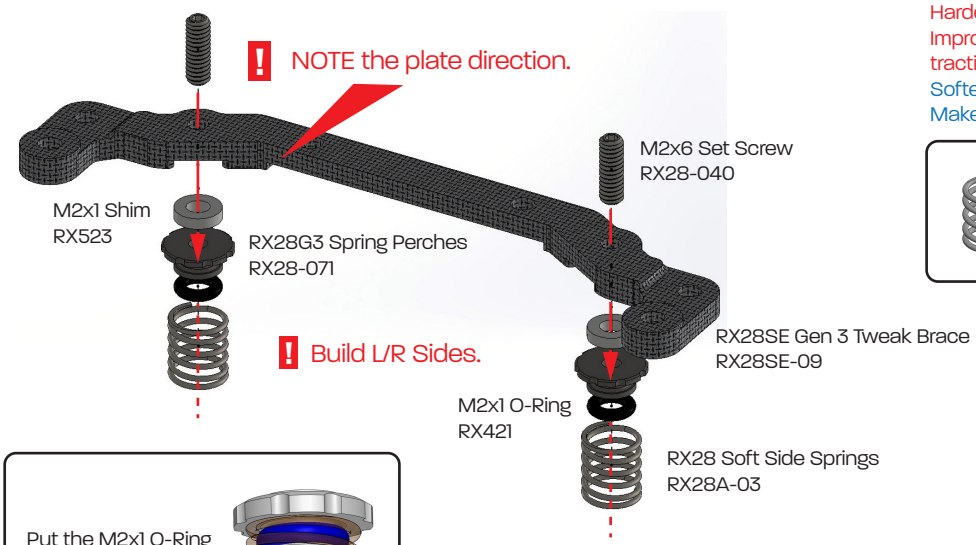
24 PIVOT MOUNT



25 BODY MOUNT



26 CHASSIS BRACE AND SIDE SPRINGS



Side SPRING :

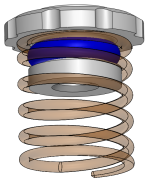
Harder Spring :
Improves steering response, also increase traction rolling.

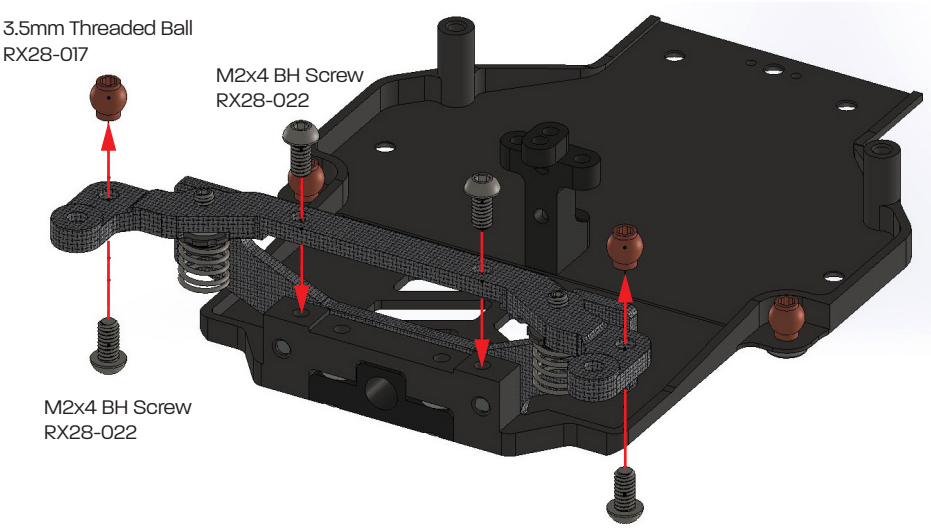
Softer Spring :
Makes the car easier to drive.



Side Spring		
RX28A-52	Soft (Gray)	
RX28A-53	Medium (Black)	KIT
RX28A-54	Hard (Silver)	

Put the M2x1 O-Ring in the groove.

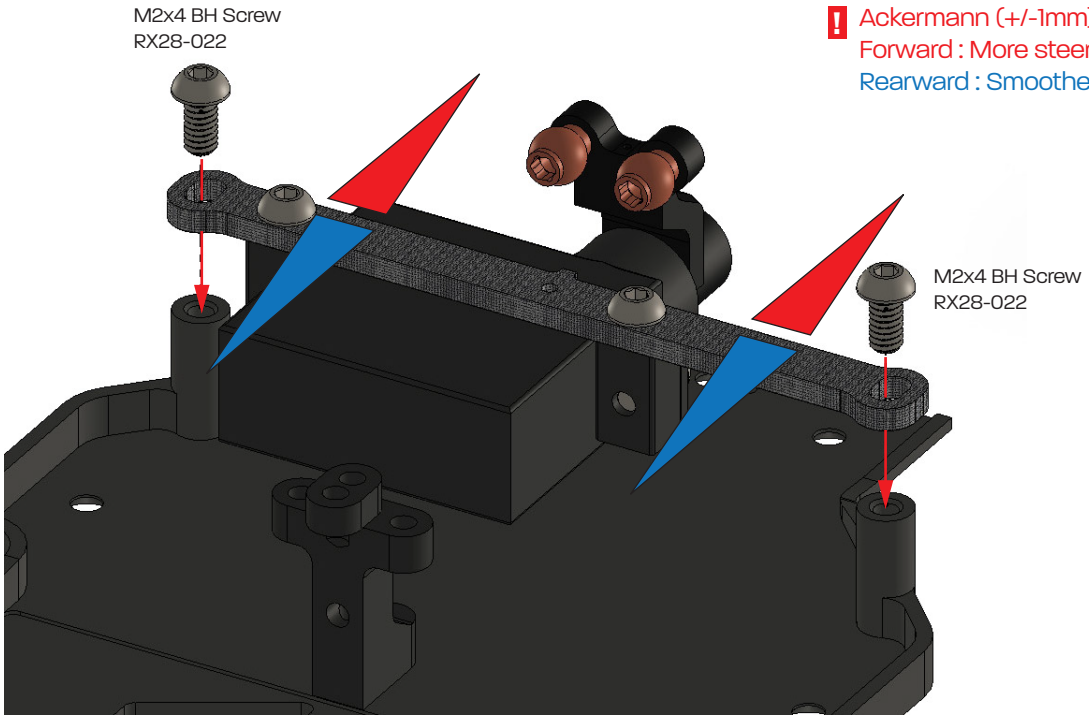




27 SERVO

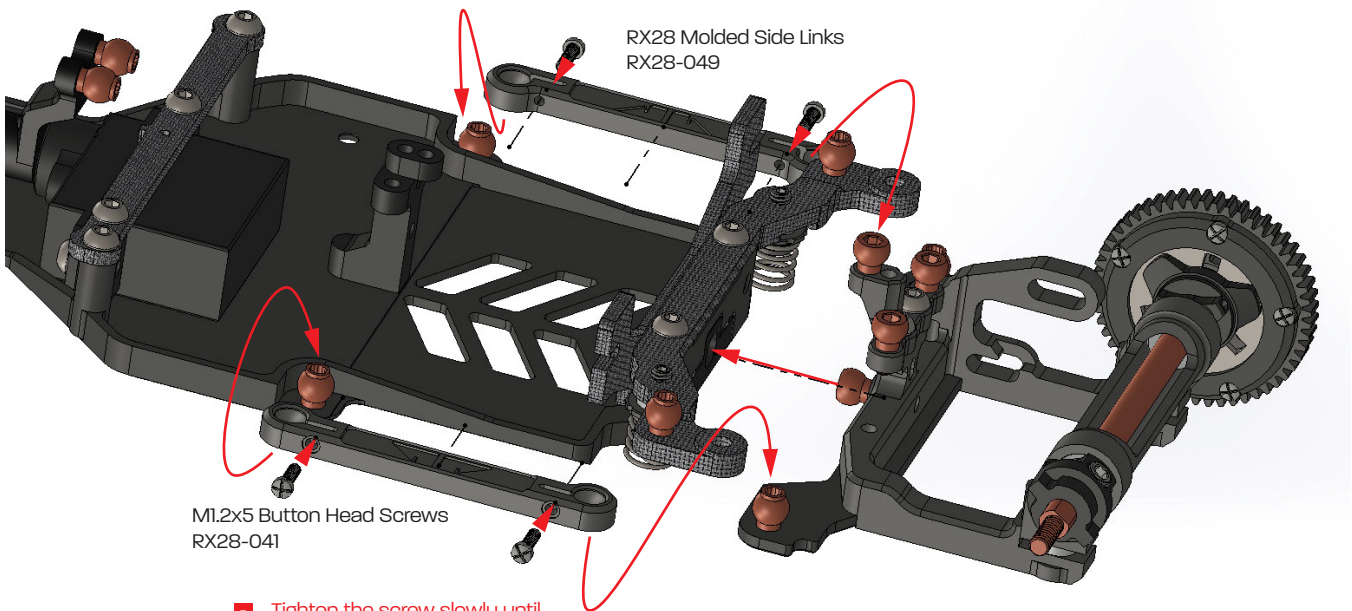
ACKERNMAN

! Ackermann (+/-1mm) adjustable.
Forward : More steering.
Rearward : Smoother steering.



28 SIDE LINKS AND MOTOR MOUNT

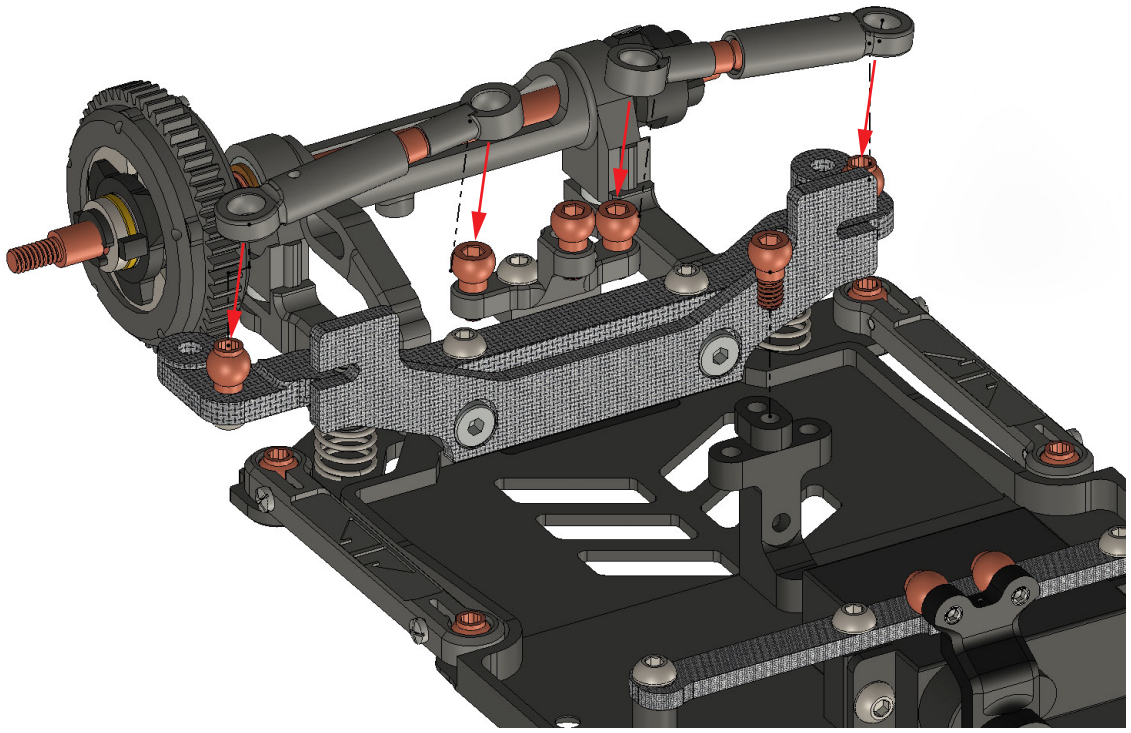
! Build L/R Sides.



! Tighten the screw slowly until the slop is mostly gone.
Ensure the links pivot freely.
Build L/R sides.

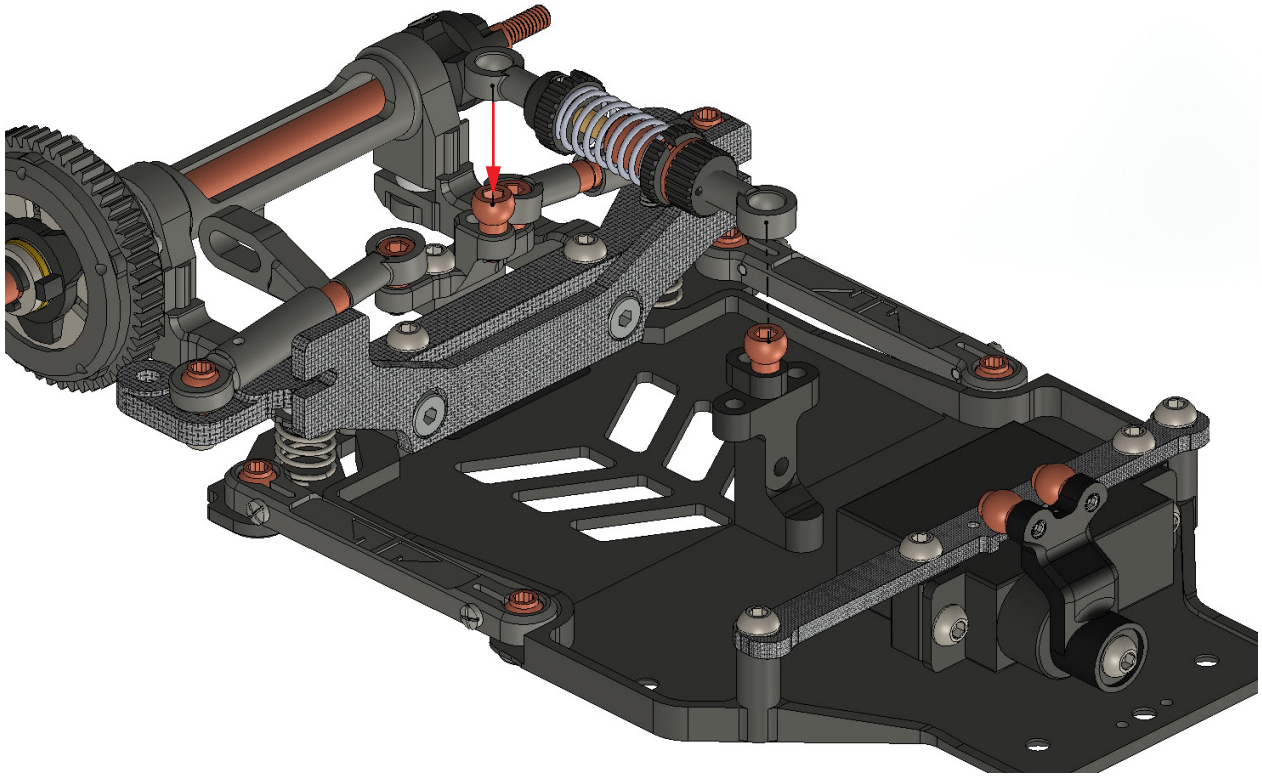
29 SIDE DAMPERS

! Ensure free movement.
Build L/R Sides.

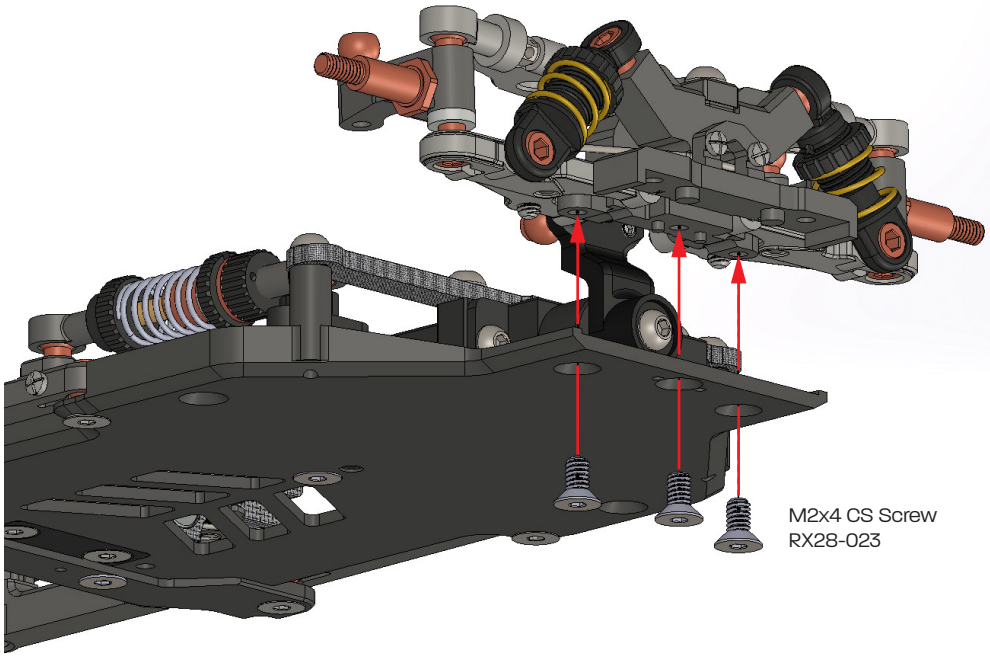


30 CENTER SHOCK

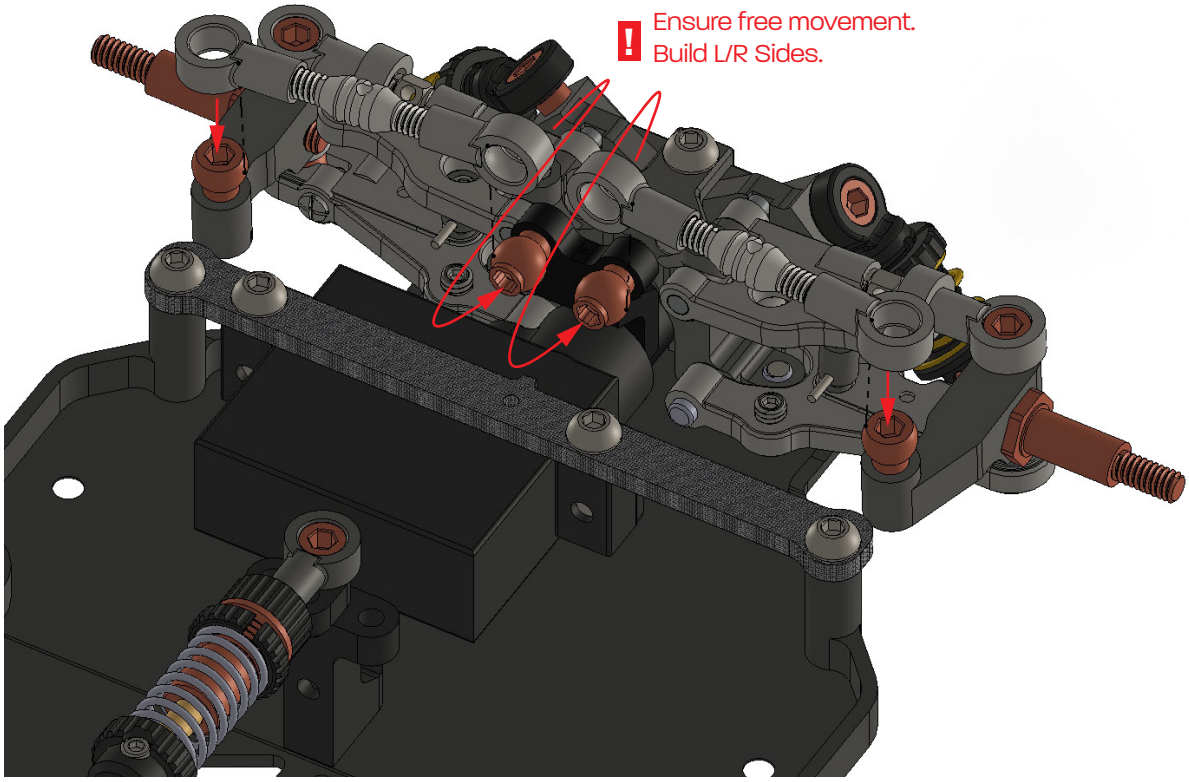
! Ensure free movement.



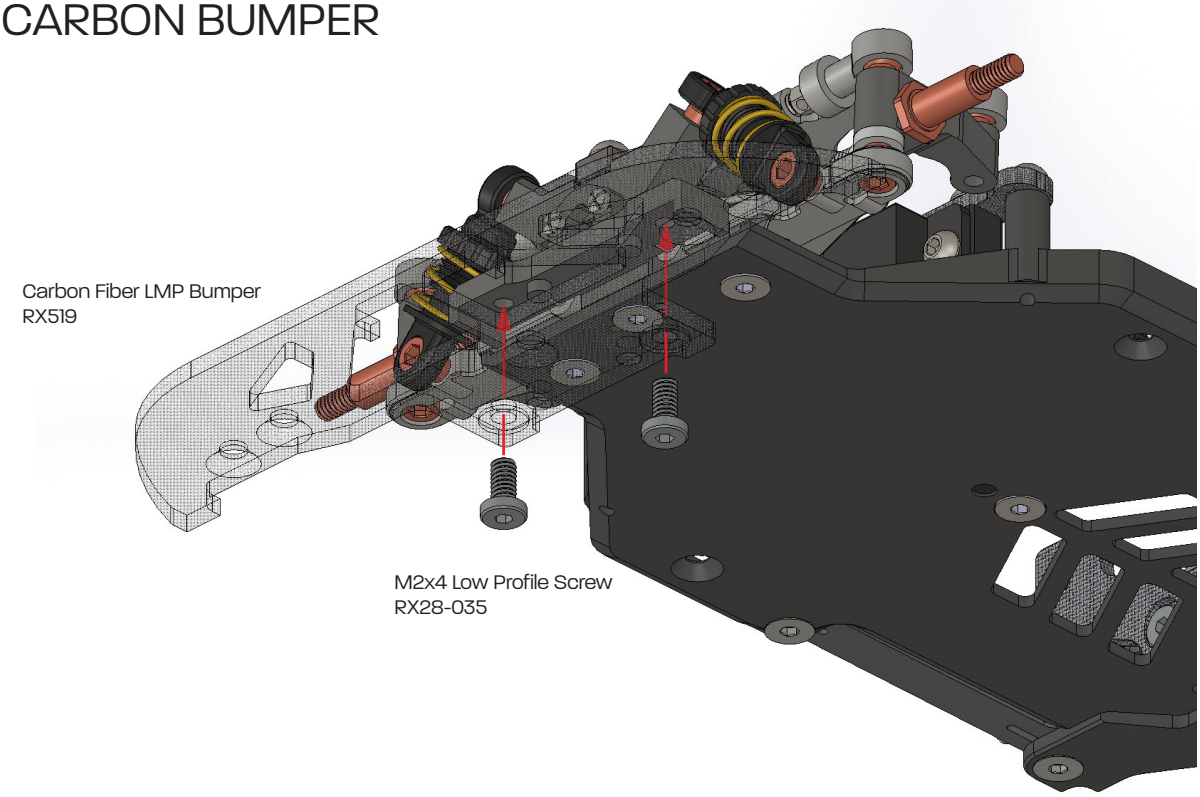
31 FRONT SUSPENSION MOUNT



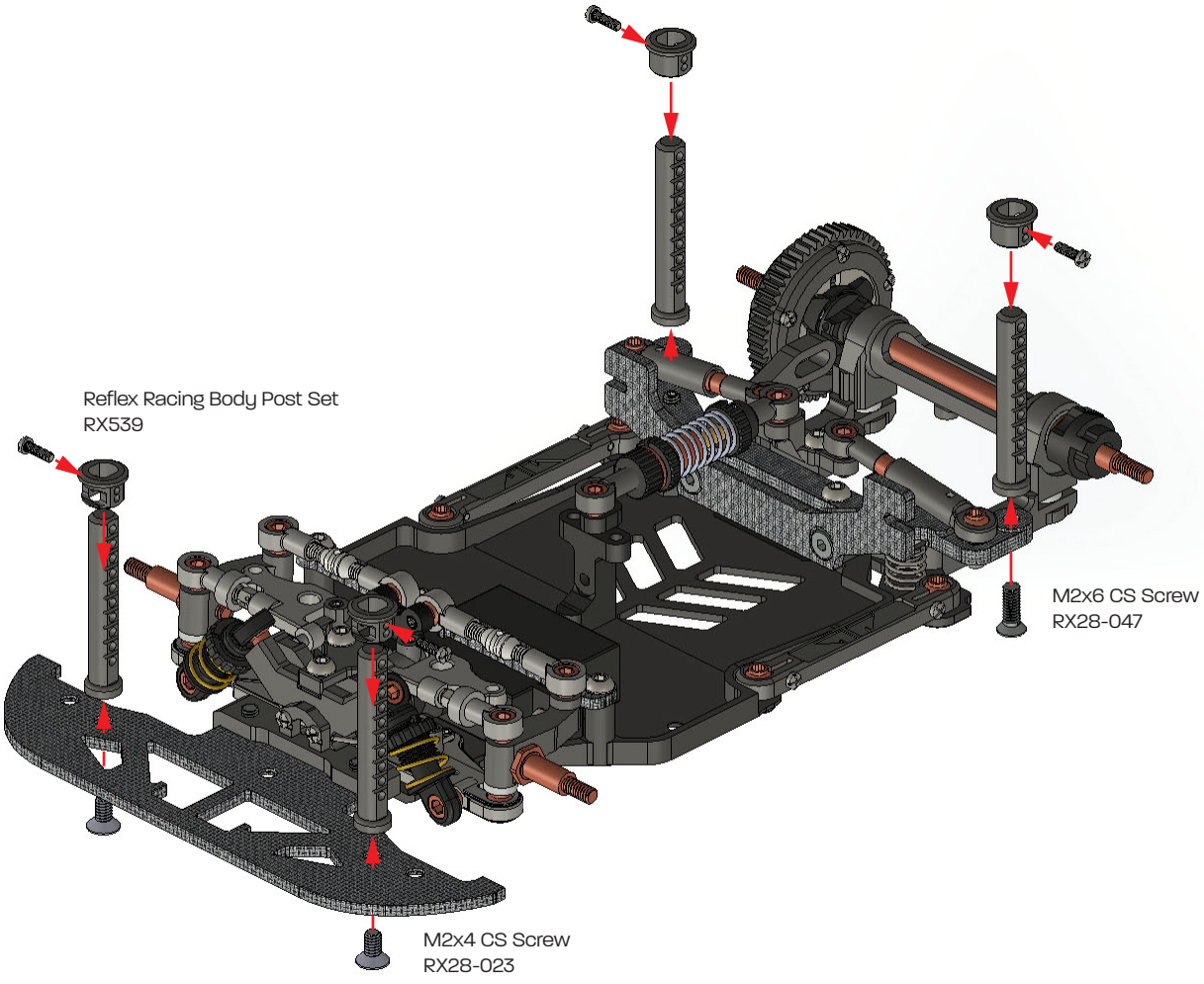
32 STEERING LINKAGES



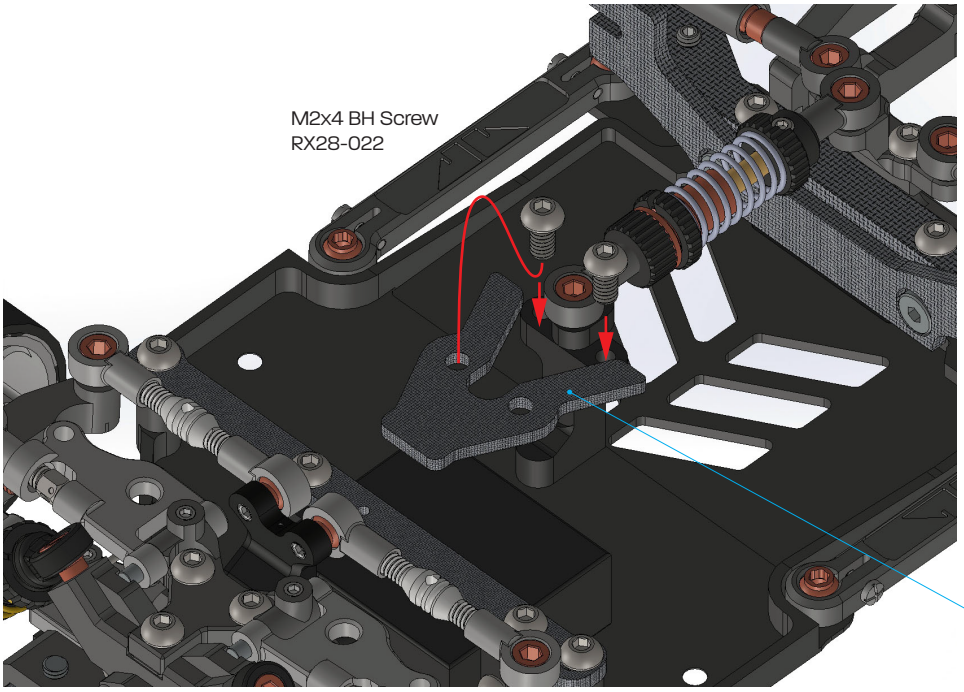
33 FRONT CARBON BUMPER



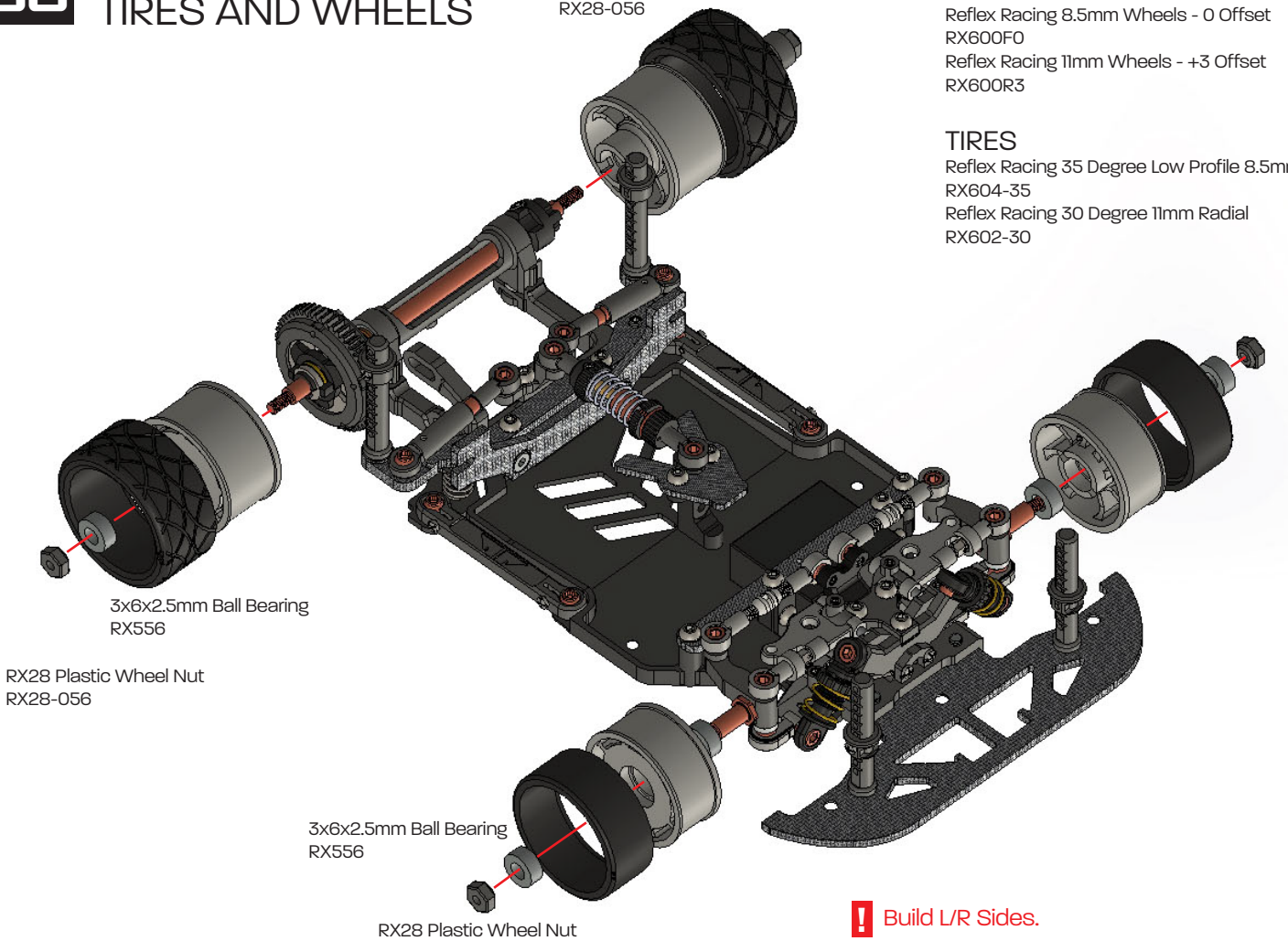
34 BODY POSTS



35 BATTERY PLATE



36 TIRES AND WHEELS



WHEELS

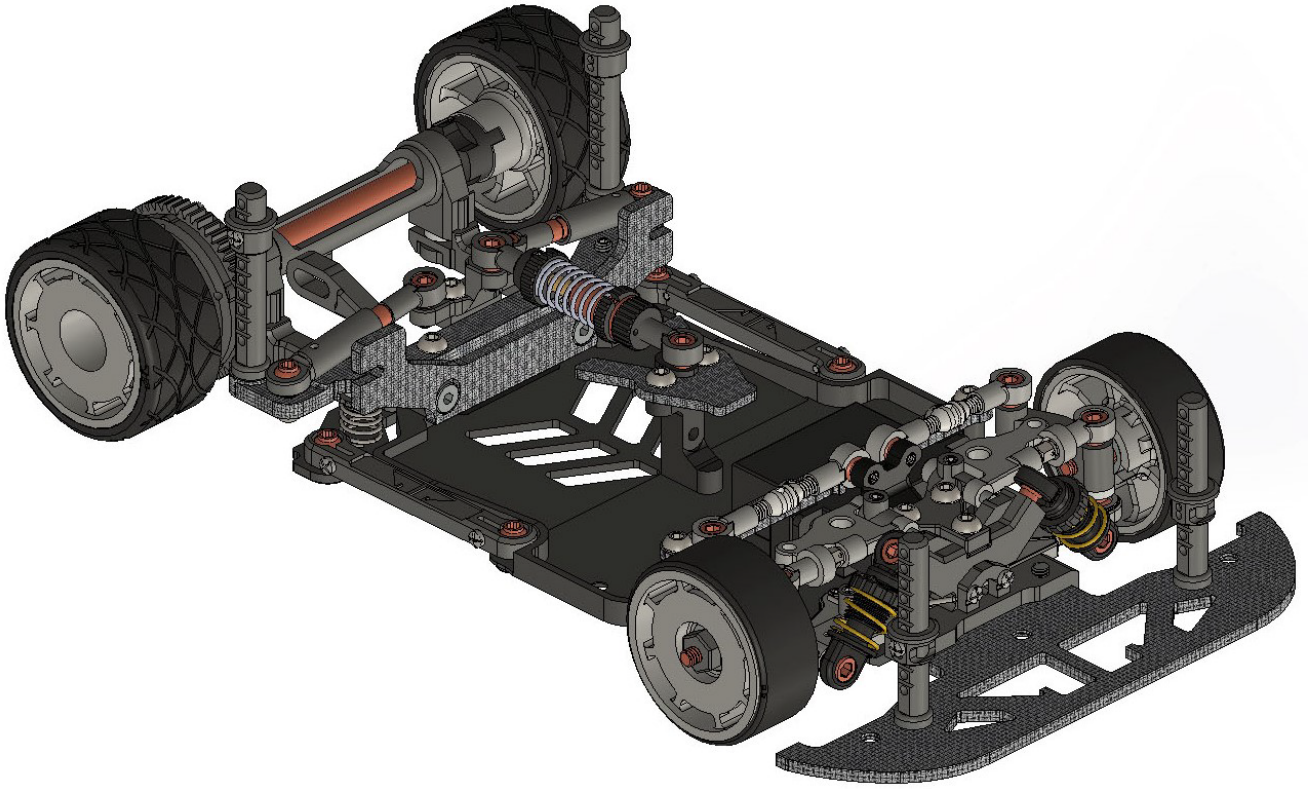
Reflex Racing 8.5mm Wheels - 0 Offset
RX600F0
Reflex Racing 11mm Wheels - +3 Offset
RX600R3

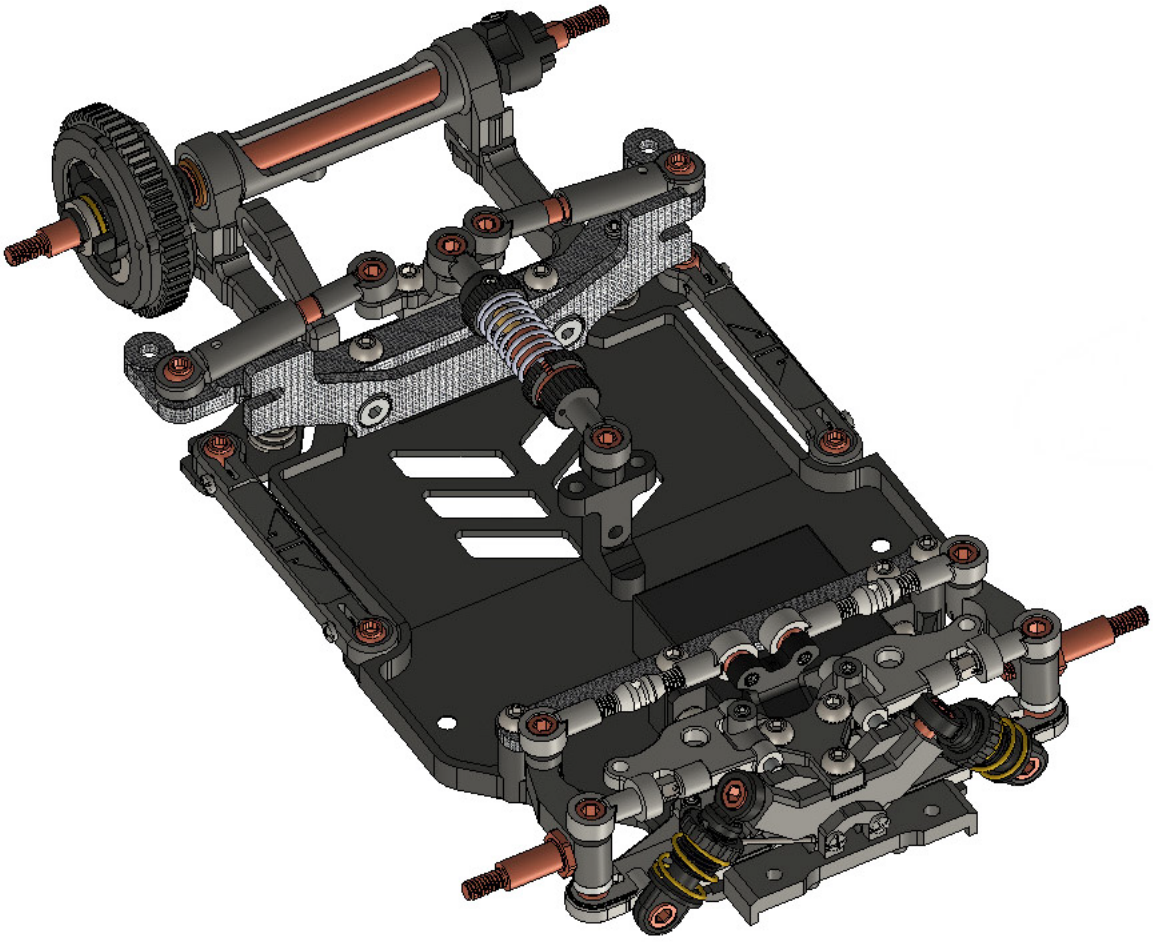
TIRES

Reflex Racing 35 Degree Low Profile 8.5mm Tire
RX604-35
Reflex Racing 30 Degree 11mm Radial
RX602-30

! Build L/R Sides.

37 RX28SE G3 COMPLETED





REFLEX RACING RX28

DATE / /	TRACK		TRACTION	HIGH ☐ ☐ ☐ ☐ ☐ LOW	
DRIVER NAME	COUNTRY		TEMP.	AIR	TRACK

EVENT		BEST LAP TIME		QUALIFYING POSITION		FINAL POSITION	

REAR

DIFFERENTIAL
- ☐ GEAR DIFF
- GREASE _____ /CST
- ☐ BALL DIFF
- ☐ TIGHT
- ☐ MEDIUM
- ☐ LOOSE

RIDE HEIGHT /mm

CENTER

CENTER SHOCK SPRING
- ☐ SOFT ☐ MEDIUM
- ☐ HARD
- OTHERS _____

DAMPER GREASE /CST

SIDE SHOCK GREASE /CST

SIDE SPRING
- ☐ SOFT ☐ MEDIUM
- ☐ HARD
- OTHERS _____

DROOP /mm

PIVOT HEIGHT SHIM /mm

FRONT

CAMBER DEG

CASTER
- ☐ 2° ☐ 3.5°

ROLL CENTER SHIM /mm

KNUCKLE SHIMS
- ABOVE /mm
- UNDER /mm

SHOCK OIL /CST

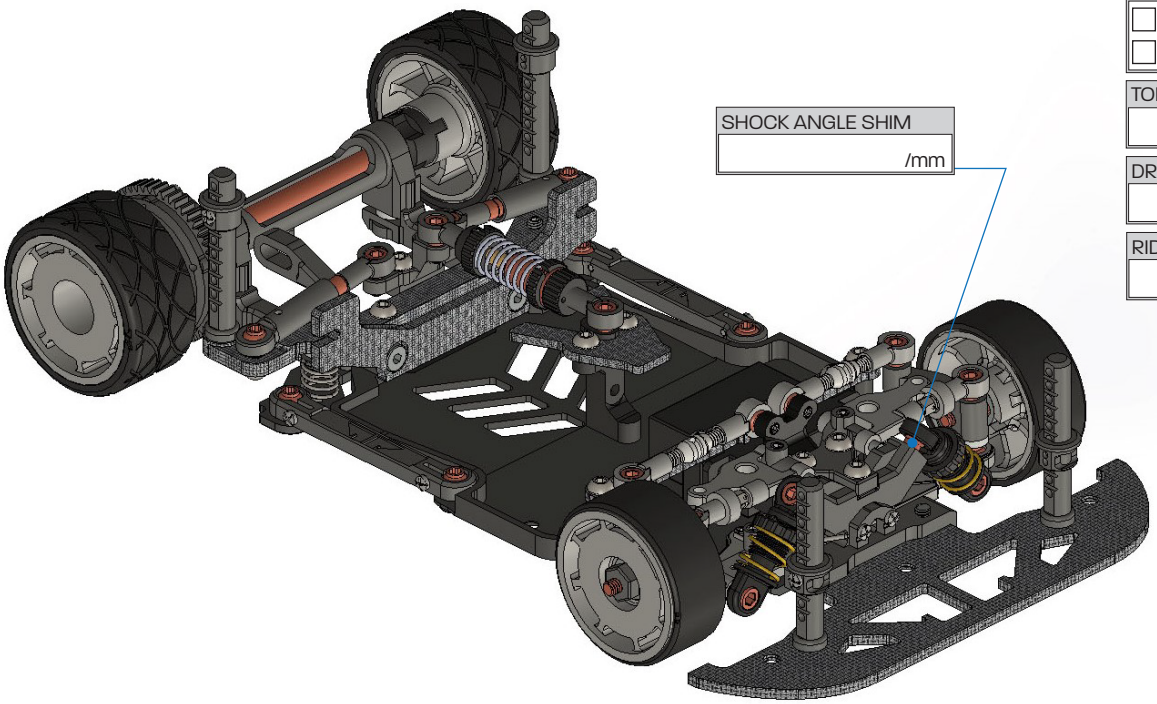
FRONT SPRING
- ☐ SOFT ☐ MEDIUM
- ☐ MED. PROGRESSIVE
- ☐ HARD

SWAY BAR
- ☐ SOFT ☐ MEDIUM
- ☐ HARD

TOE ANGLE DEG

DROOP /mm

RIDE HEIGHT /mm



SHOCK ANGLE SHIM /mm

TIRE SETTING

FRONT	REAR
TIRE	TIRE
WHEEL	WHEEL
OFFSET /mm	OFFSET /mm
DIAMETER /mm	DIAMETER /mm
GLUE ☐ TAPE ☐	GLUE ☐ TAPE ☐

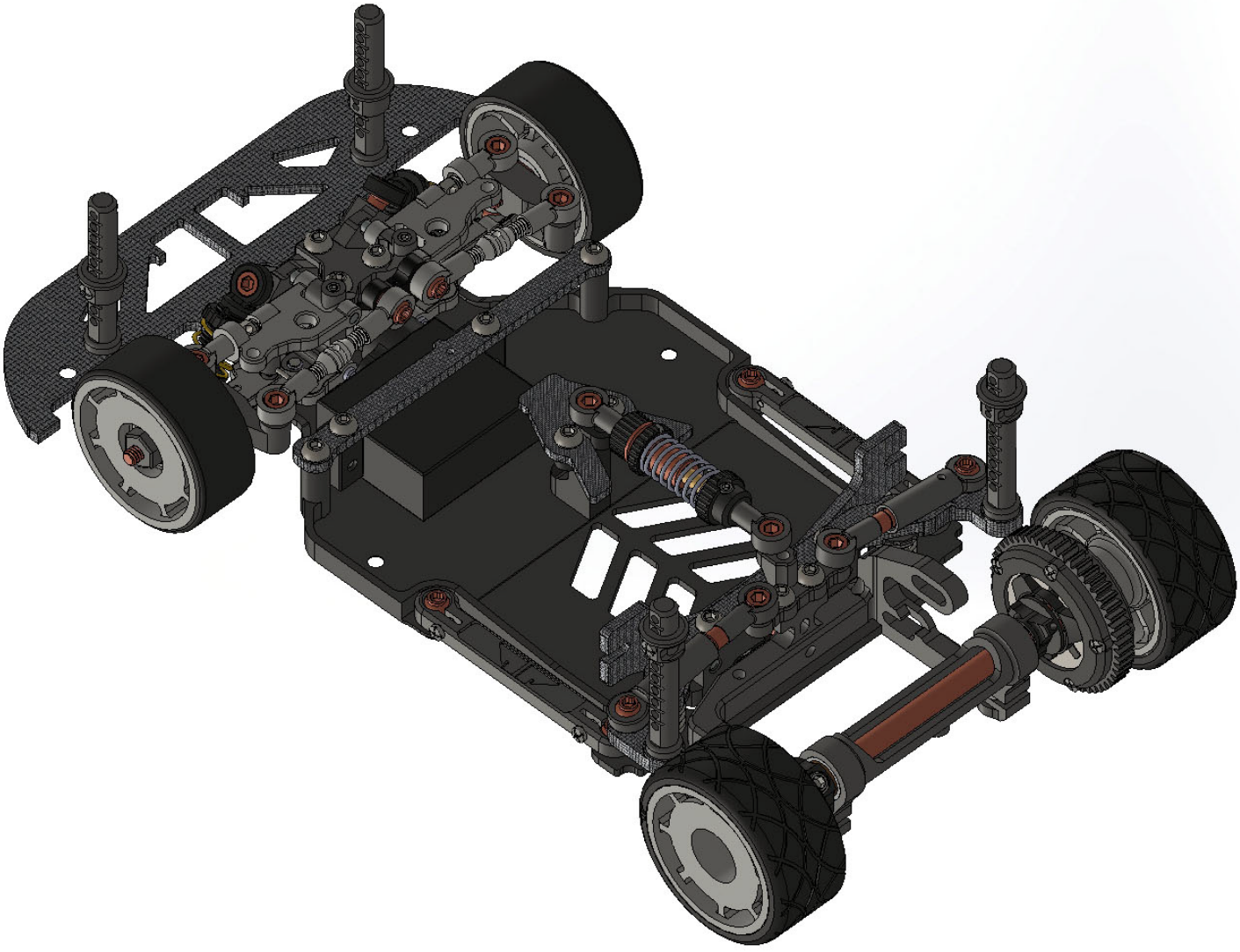
MOTOR		KV		GYRO	
PINON GEAR	T	SPUR GEAR	T	BODY	

ESC		RECEIVER		SERVO	
BATTERY		CHARGE CURRENT	A	TOTAL WEIGHT	/grams

NOTES

RX28 5E

www.reflexracing.net



REFLEXRACING