



TEKNO



INTRODUCTION



Thank you for purchasing the Tekno RC EB48 1/8th Electric 4WD Competition Buggy. The EB48 represents the state-of-the-art in 1/8th Electric Buggy technology. We hope you have as much fun driving your new vehicle as we did developing it. We are always working on new projects, so please check our website (www.teknorc.com) regularly for the latest news, parts, and kits. Thanks again.

Additional equipment and parts needed:

2/3 channel radio transmitter and receiver

1/8th scale ESC and motor

High torque steering servo, optional brake servo

4-6s LiPo battery

1/8th scale buggy tires, wheels & CA glue

Paint for body

MOD1 Pinion (TKR4171->TKR4190)

Or Tekno RC Traktion Drive / Elektri-Clutch slipper system (TKR4301X)

Tools needed:

Hex drivers (1.5mm, 2.0mm, 2.5mm)

Nut drivers (5.0mm, 5.5mm, 7.0mm)

Hobby knife

Needle-nose pliers

Adjustable (Crescent) wrench (for shock assembly)

4mm turnbuckle wrench

Lexan Body Scissors

Disclaimer: Tekno RC is not responsible or liable for any property or personal damage, loss, or injury incurred as a result of using this product. This kit is meant for use by persons 14 years of age or older and in the strict confines of a legally permitted RC track or facility.

Warnings: Always double-check that your radio gear is working properly before operating vehicle. Never operate the vehicle indoors (unless the RC track is an indoor facility). Use caution while operating vehicle so as not to collide with people who may be turn mashing or who might otherwise not be aware that a fast moving RC vehicle is in the vicinity.

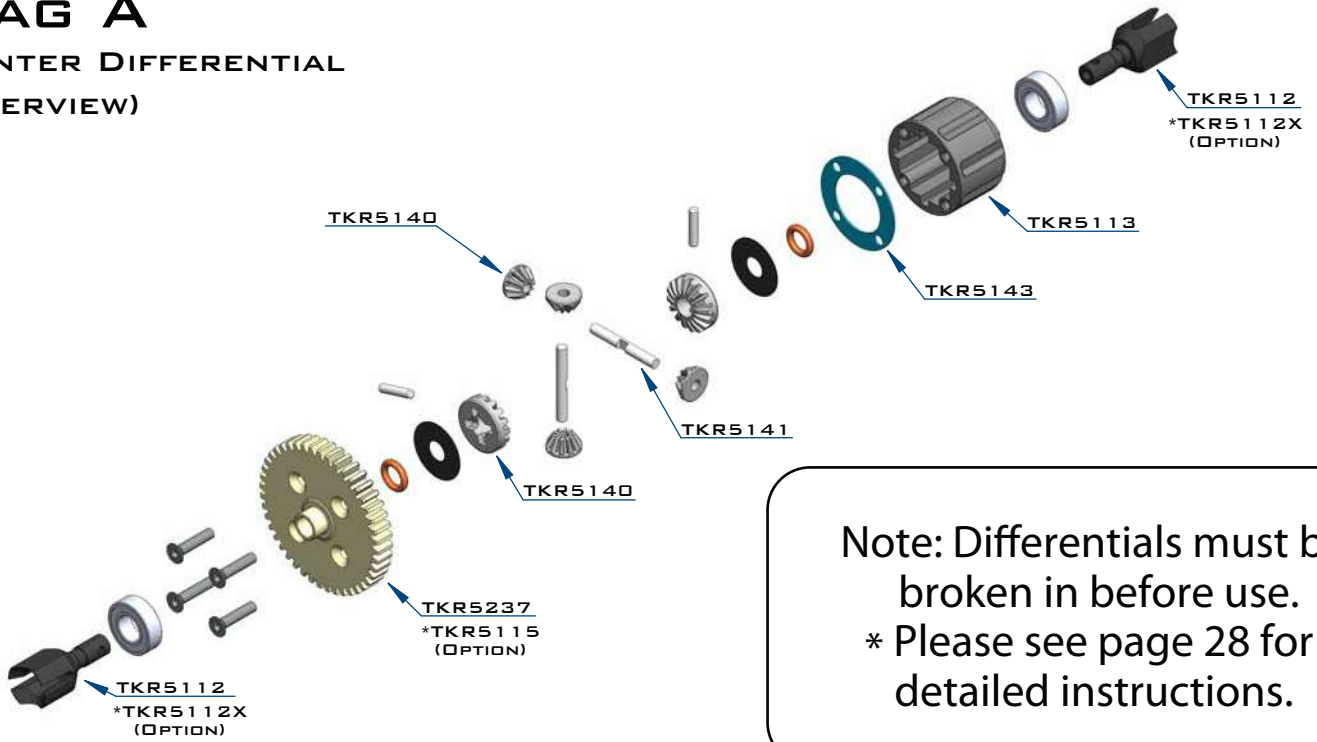
Warranty: We warrant that the parts included in this kit are free from defects. If you find a defective part in your kit, please contact us @ info@teknorc.com and we will help you to resolve the issue. We do not warranty parts that may be broken during operation of the vehicle or otherwise. Refer to the end of this instruction manual for a listing of spare/replacement and option parts. All spare parts and other info are available on our website (www.teknorc.com) and through our network of domestic and international dealers and distributors.

This project is dedicated to Herb Lewis.

BAG A

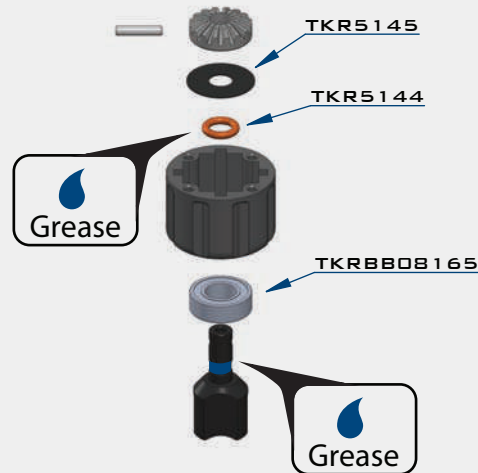
CENTER DIFFERENTIAL

(OVERVIEW)

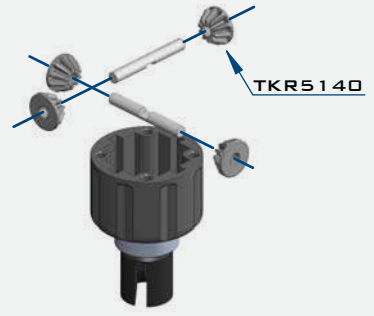


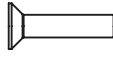

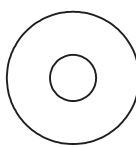

Note: Differentials must be broken in before use.
* Please see page 28 for detailed instructions.

STEP A-1



STEP A-2

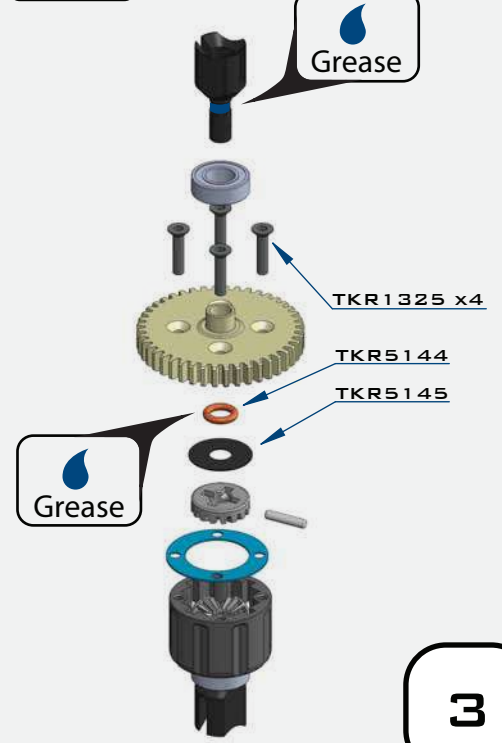


-  x4
TKR1325
M3X14MM FLAT HEAD SCREW
-  x2
TKR5144
DIFFERENTIAL O-RINGS
-  x2
TKR5145
DIFFERENTIAL SHIMS (6X17MM)
-  x2
TKRBB08165
BALL BEARING(8X16X5MM)

STEP A-3

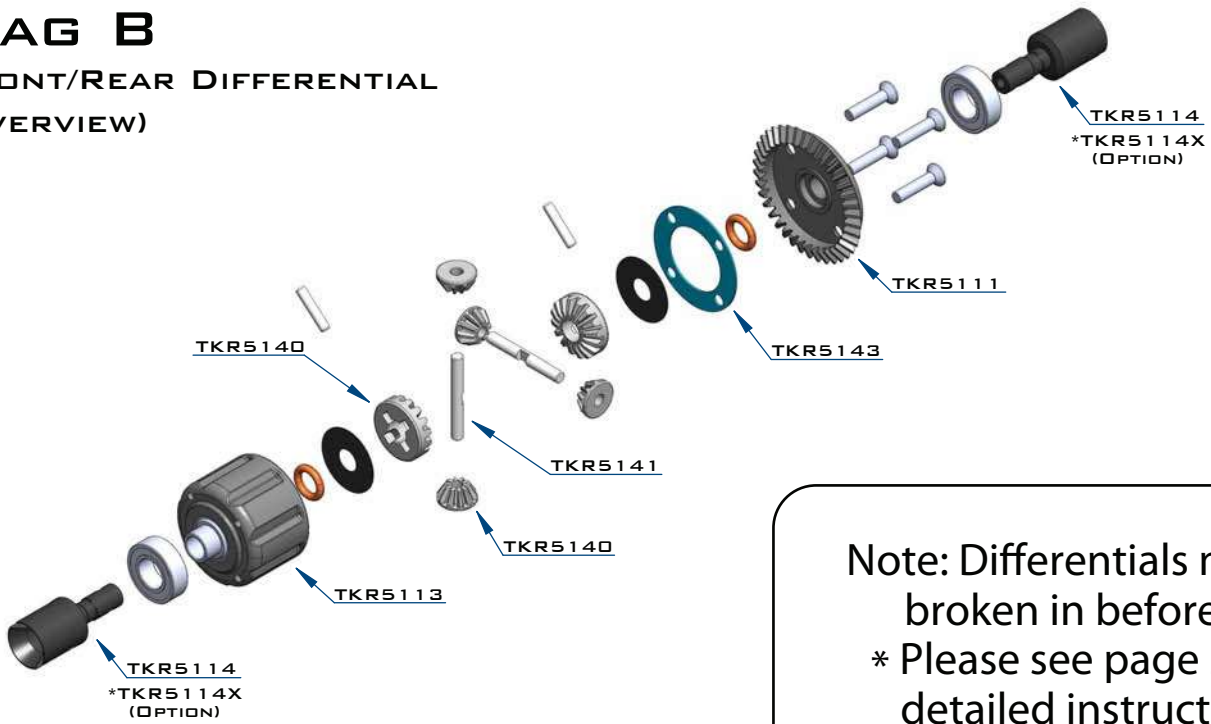


STEP A-4



BAG B

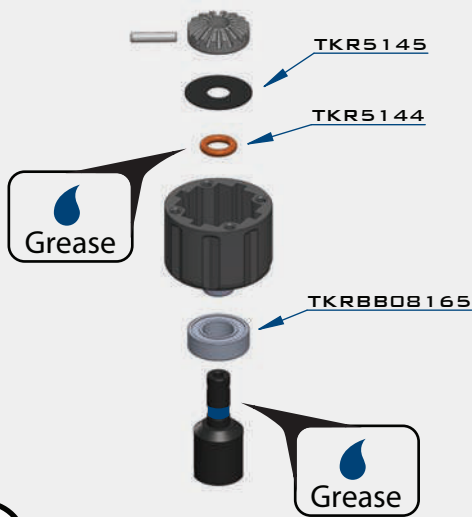
FRONT/REAR DIFFERENTIAL (OVERVIEW)



Note: Differentials must be broken in before use.
* Please see page 28 for detailed instructions.

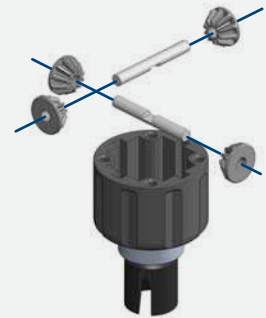
STEP B-1

Note: Repeat for rear diff



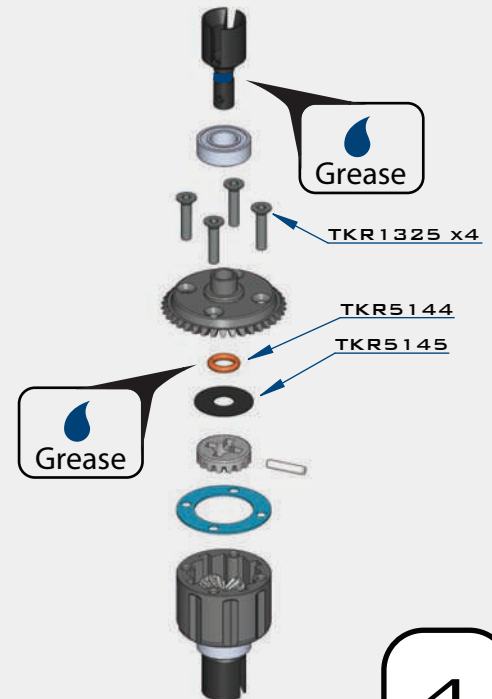
STEP B-2

Note: Repeat for rear diff



STEP B-4

Note: Repeat for rear diff

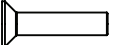

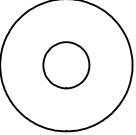
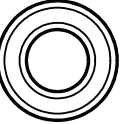


STEP B-3

Note: Repeat for rear diff

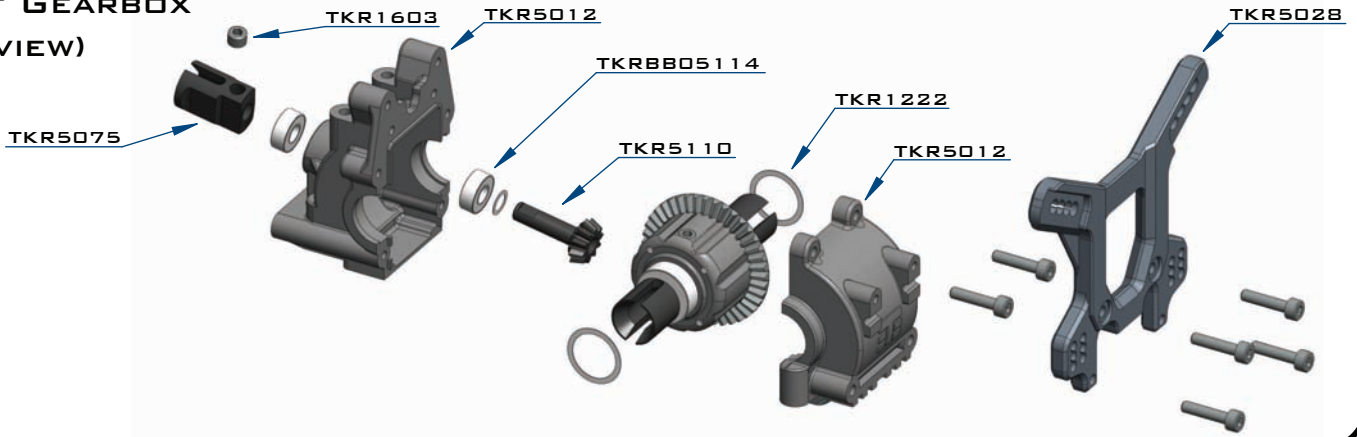


Fill with 7000 wt front, 3000 wt rear, to the top of spider gears

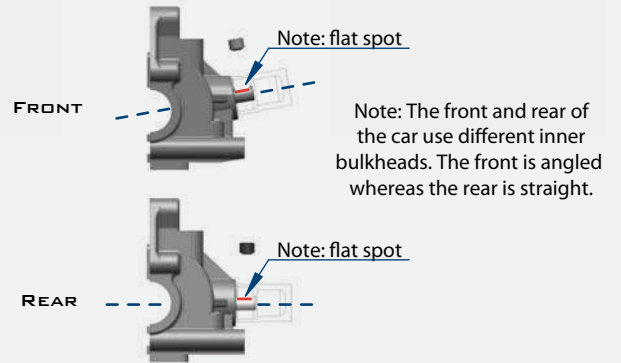
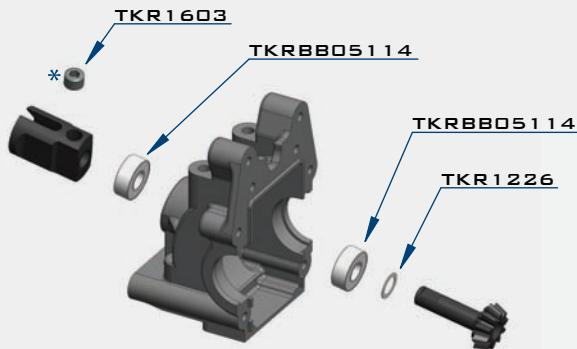
-  x8
TKR1325
M3X14MM FLAT HEAD SCREW
-  x4
TKR5144
DIFFERENTIAL O-RINGS
-  x4
TKR5145
DIFFERENTIAL SHIMS (6X17MM)
-  x4
TKRBB08165
BALL BEARING(8X16X5MM)

BAG C

FRONT GEARBOX (OVERVIEW)

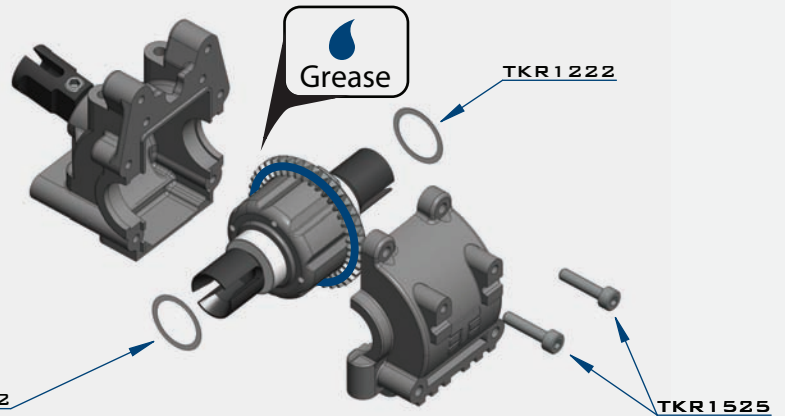


STEP C-1

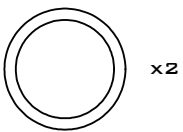
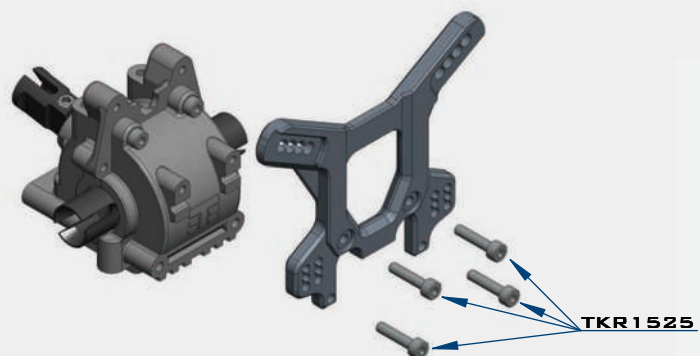


Note: TKR1222 and TKR1226 Shims - The gear mesh should be tight without any binding. TKR1226 should always be installed. Then test fitment of the diff with both TKR1222 shims on the gear-side of the diff. If the diff turns freely without binding, continue to next step. If the diff binds and does not turn freely (it will make a grinding or crunching sound when spun), remove one TKR1222 shim from the gear side and install it onto the other side of the diff. Reassemble and test the mesh again. If it is still binding, remove the second TKR1222 shim from the gear side and install it onto the other side of the diff. When you are satisfied that you have the best gear mesh possible continue to the next step.

STEP C-2

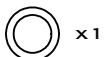


STEP C-3



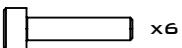
x2

TKR1222
13x16x0.1MM DIFF SHIM



x1

TKR1226
5x7x0.2MM SHIM



x6

TKR1525
M3X14MM CAP HEAD SCREW



x1

TKR1603
M5X4MM SET SCREW

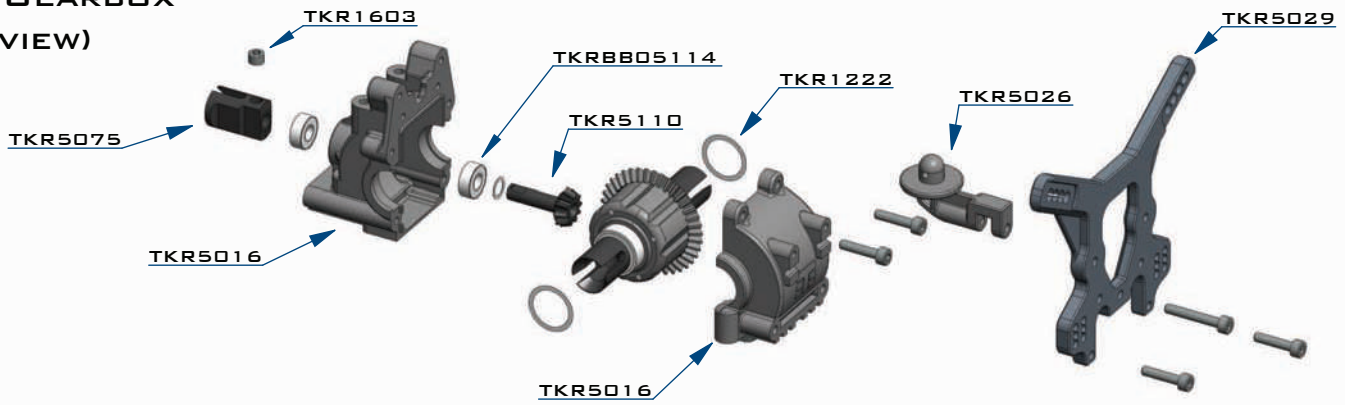


x2

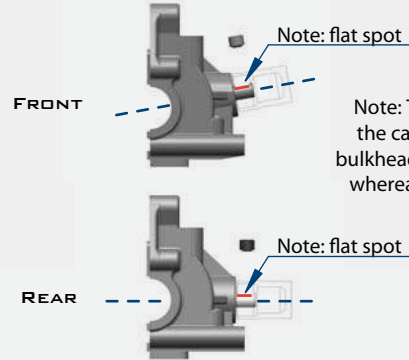
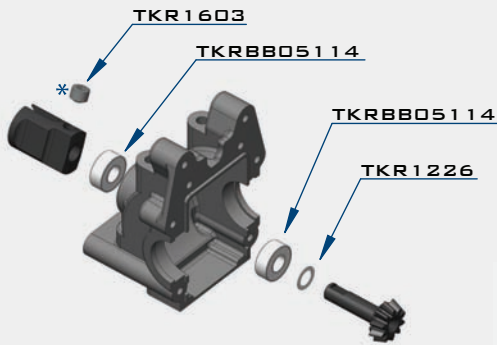
TKRBB05114
BALL BEARING (5X11X4)

BAG D

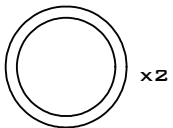
REAR GEARBOX (OVERVIEW)



STEP D-1



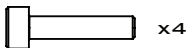
Note: TKR1222 and TKR1226 Shims - The gear mesh should be tight without any binding. TKR1226 should always be installed. Then test fitment of the diff with both TKR1222 shims on the gear-side of the diff. If the diff turns freely without binding, continue to next step. If the diff binds and does not turn freely (it will make a grinding or crunching sound when spun), remove one TKR1222 shim from the gear side and install it onto the other side of the diff. Reassemble and test the mesh again. If it is still binding, remove the second TKR1222 shim from the gear side and install it onto the other side of the diff. When you are satisfied that you have the best gear mesh possible continue to the next step.



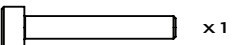
TKR1222
13x16x0.1MM DIFF SHIM



TKR1226
5x7x0.2MM SHIM



TKR1525
M3x14MM CAP HEAD SCREW



TKR1529
M3x20MM CAP HEAD SCREW

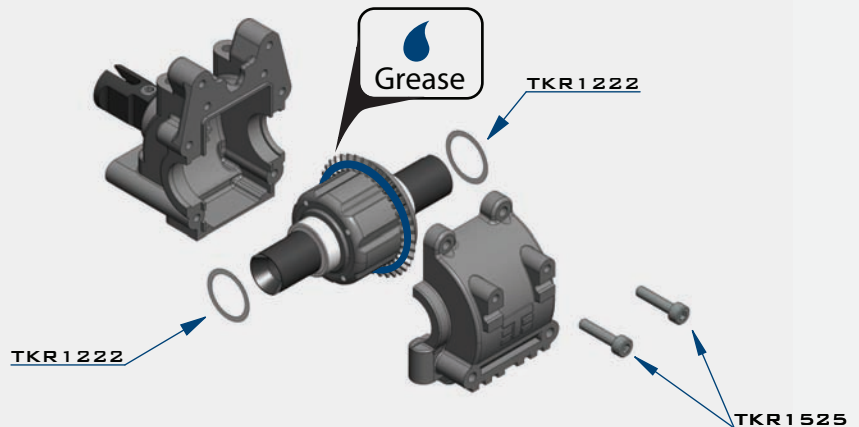


TKR1603
M5x4MM SET SCREW

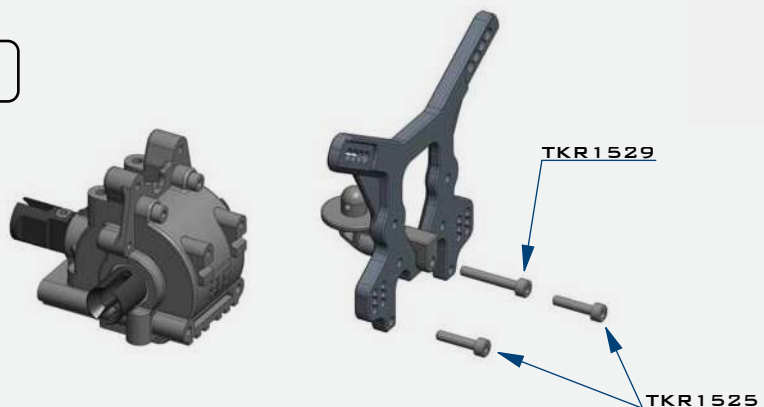


TKRBB05114
BALL BEARING (5x11x4)

STEP D-2

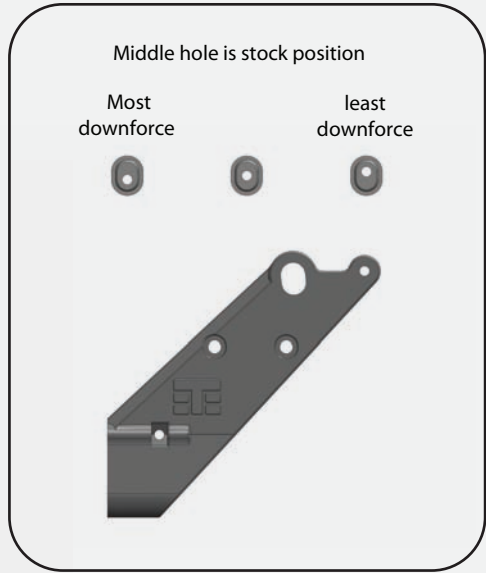


STEP D-3

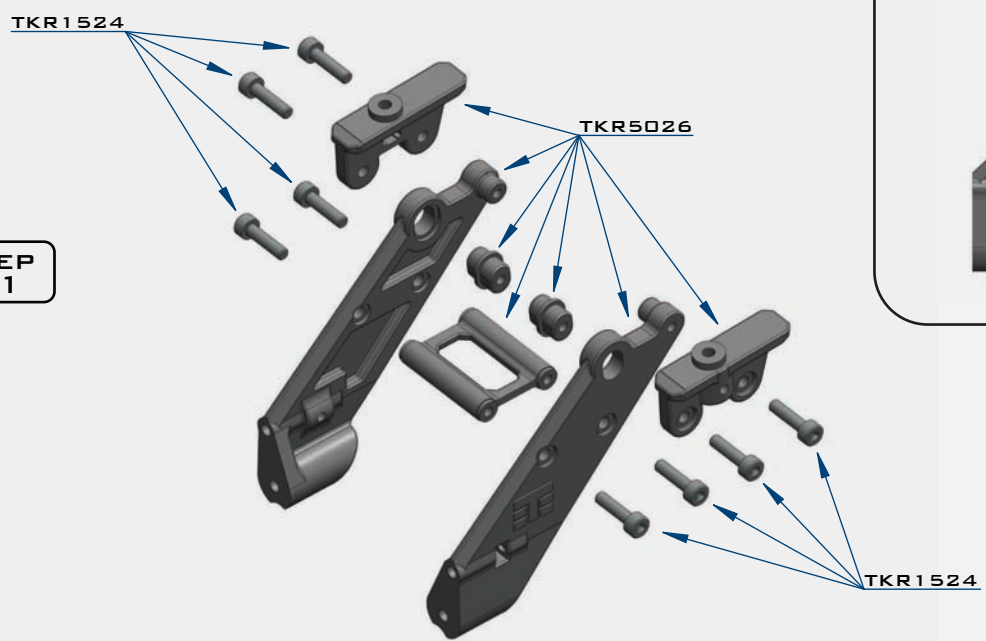


BAG E

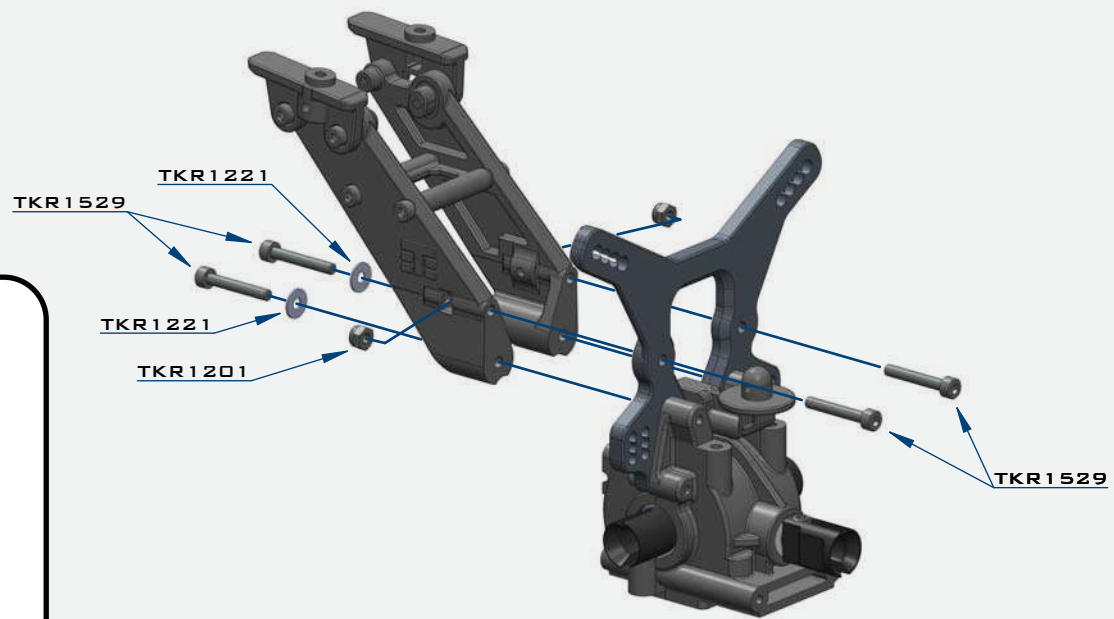
WING MOUNT



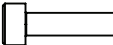
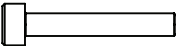


STEP E-1



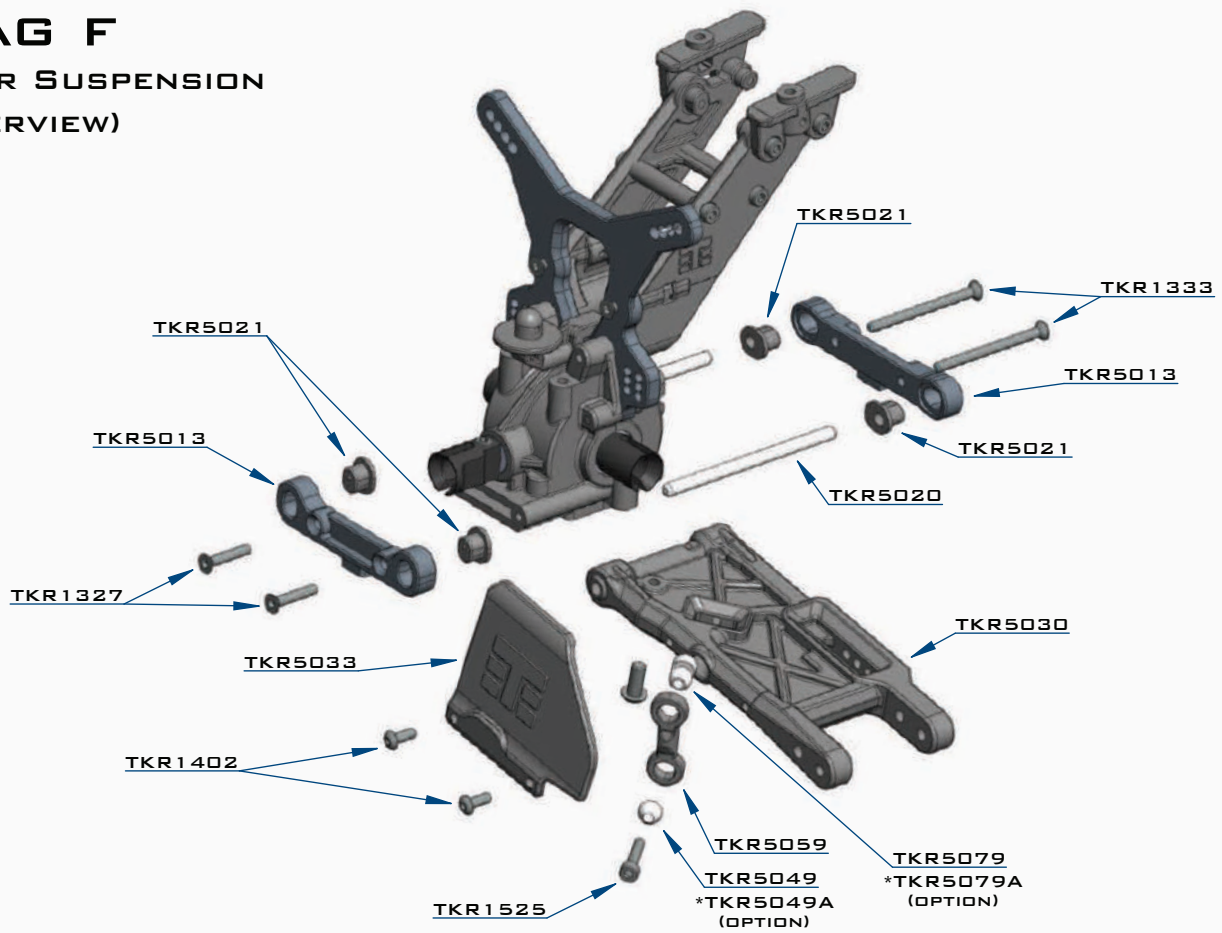
STEP E-2



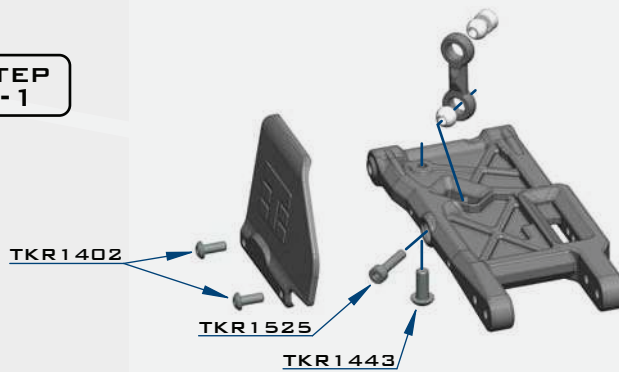
-  x2
 TKR1201
 M3 LOCK NUT BLACK
-  x2
 TKR1221
 M3X8MM WASHER
-  x8
 TKR1524
 M3X12MM CAP HEAD SCREW
-  x4
 TKR1529
 M3X20MM CAP HEAD SCREW

BAG F

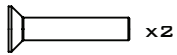
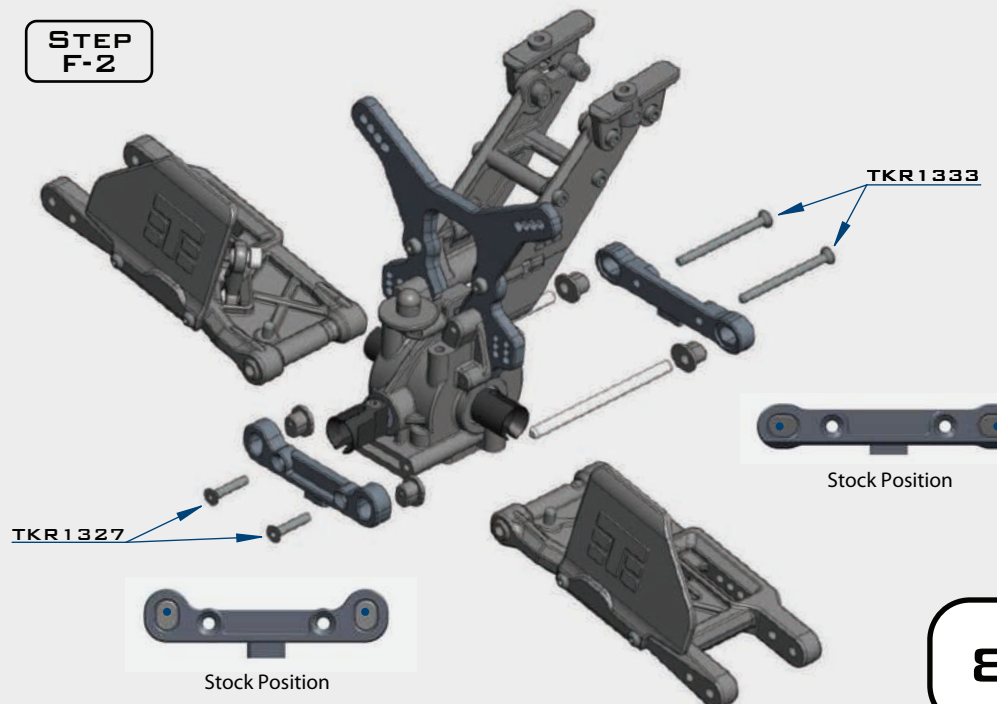
REAR SUSPENSION (OVERVIEW)



STEP F-1



STEP F-2



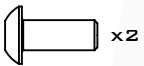
TKR1327
M3X16MM FLAT HEAD SCREW



TKR1333
M3X40MM FLAT HEAD SCREW



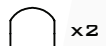
TKR1402
M3X8MM BUTTON HEAD SCREW



TKR1443
M4X10MM BUTTON HEAD SCREW



TKR1525
M3X14MM CAP HEAD SCREW



TKR5049
PIVOT BALL SWAY BAR



TKR5079
STABILIZER BALL

BAG F

REAR SWAY BAR

STEP F-3

TKR5082 - 2.4MM
(OPTION)

*TKR5080 - 2.2MM

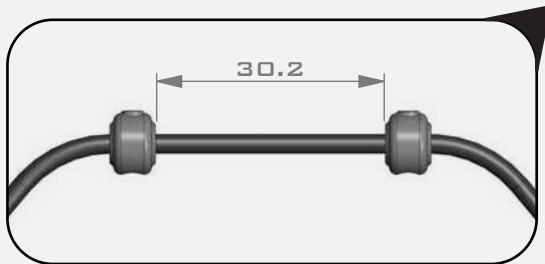
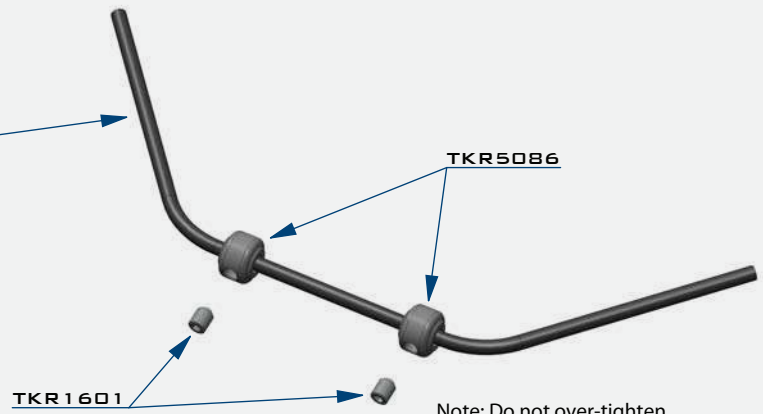
*TKR5081 - 2.3MM

*TKR5083 - 2.5MM

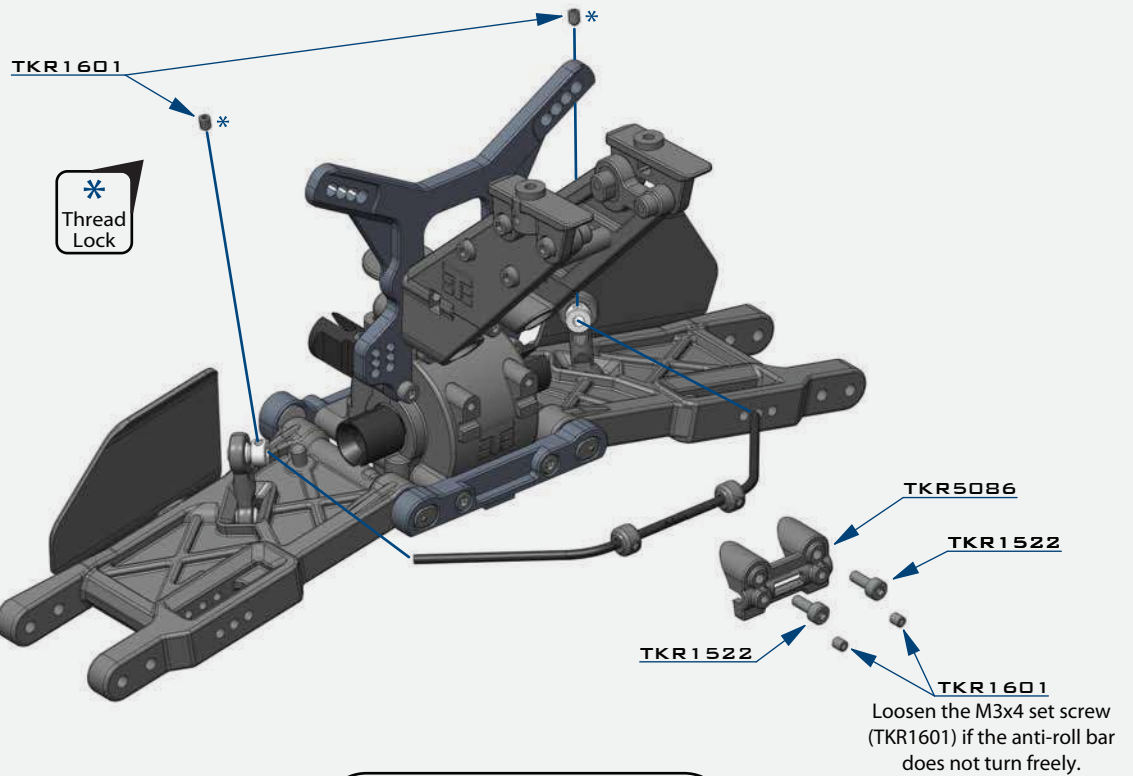
*TKR5084 - 2.6MM

*TKR5085 - 2.8MM

*TKR5087 - 3.0MM



STEP F-4



x2

TKR1522
M3x8MM CAP HEAD SCREW



x6

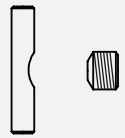
TKR1601
M3x4MM SET SCREW



Install the Sway Bar Ball onto the Sway Bar Wire until the end of the wire is flush with the ball as picture above.

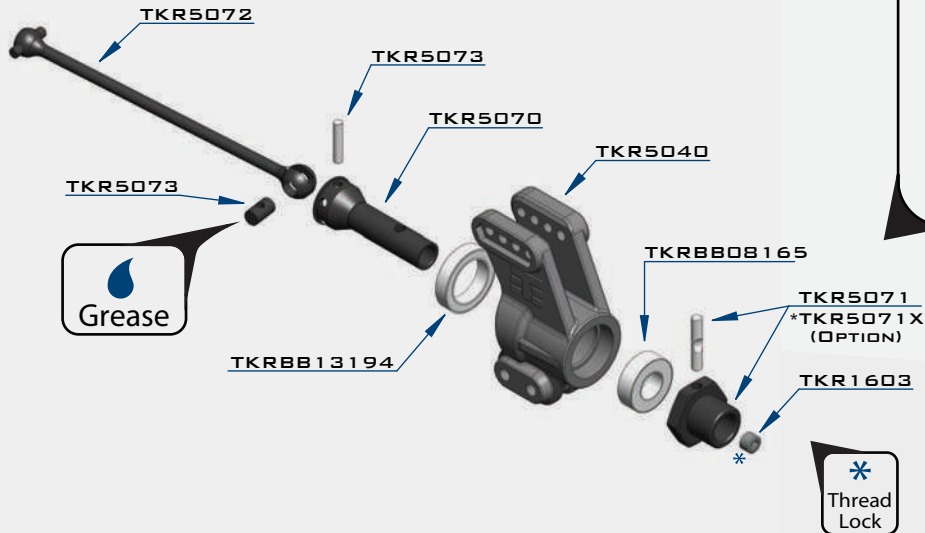
BAG G

REAR HUB/CVA ASSEMBLY



Note: notch on pin needs to line up with set screw.

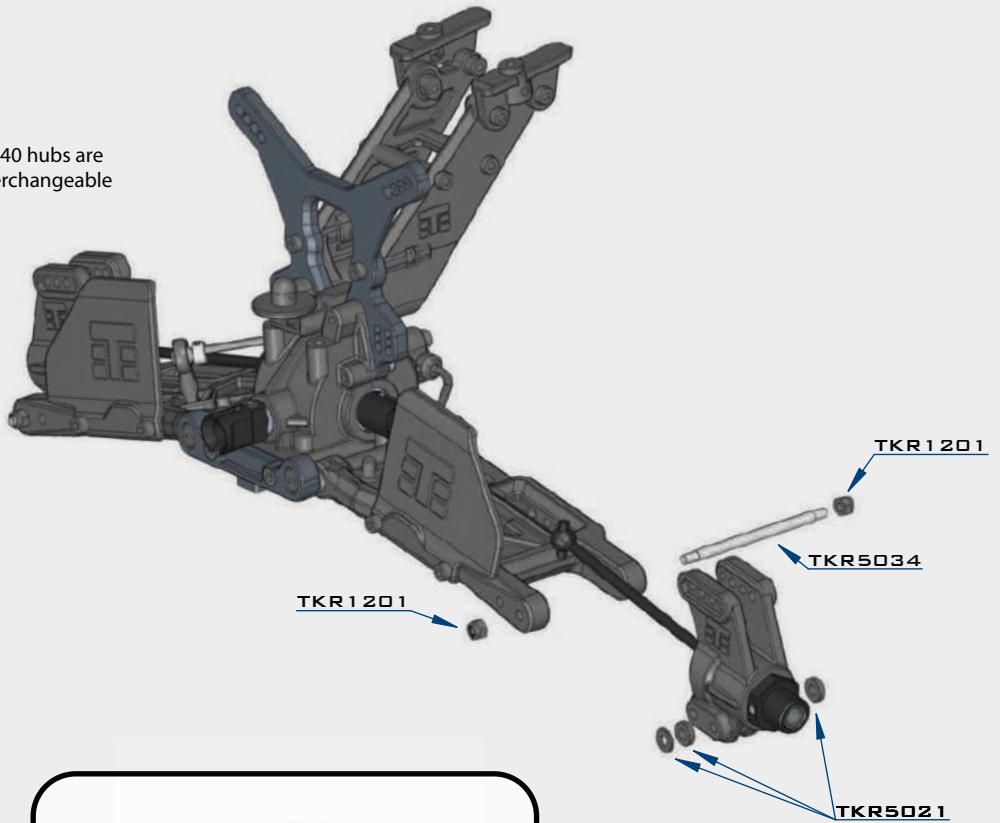
STEP G-1



* Thread Lock

STEP G-2

Note: TKR5040 hubs are left/right interchangeable



x4

TKR1201
M3 LOCKNUT BLACK



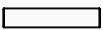
x2

TKR1603
M5X4MM SET SCREW



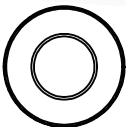
x2

TKR5071
M3X16.8MM PIN



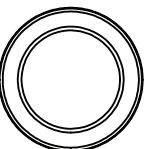
x2

TKR5073
CV JOINT PIN



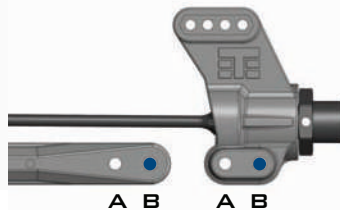
x2

TKRBB08165
BALL BEARING (8X16X5)



x2

TKRBB13194
BALL BEARING (13X19X4)



A B A B

Hole "B" is the stock position

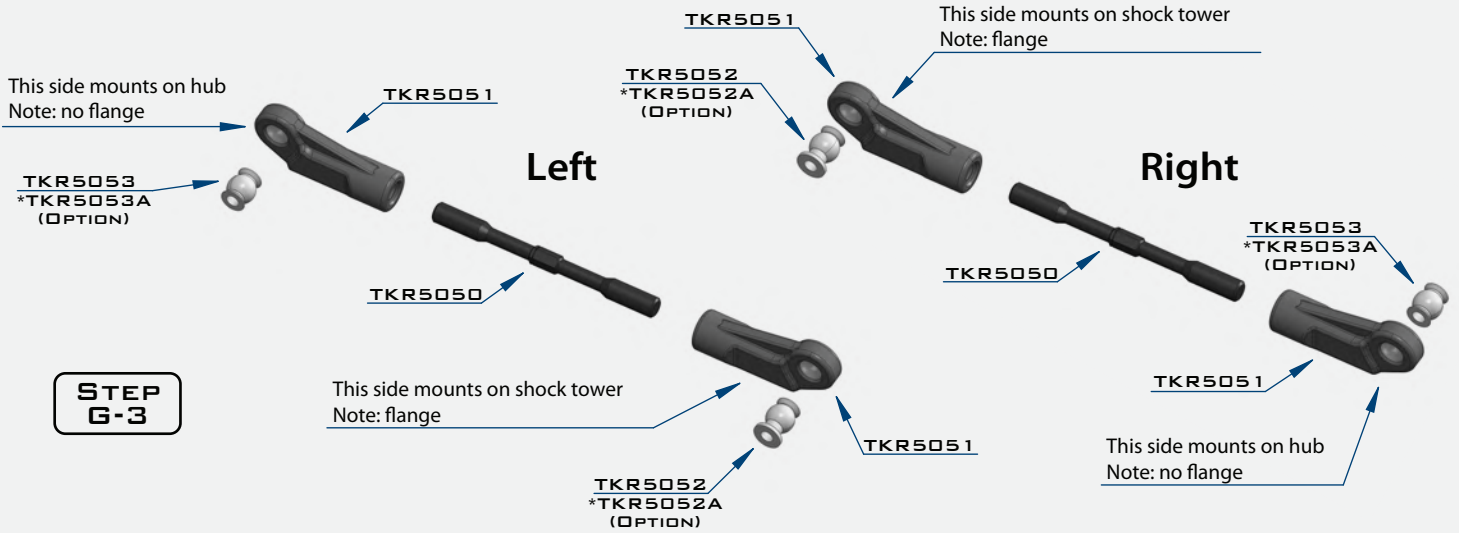
*Only use hole A in the arm with hole A in the hub

*Only use hole B in the arm with hole B in the hub

The outside hole offers greater stability and is recommended for bumpy open tracks. Inside hole offers greater amount of steering and is recommended for flat technical tracks.

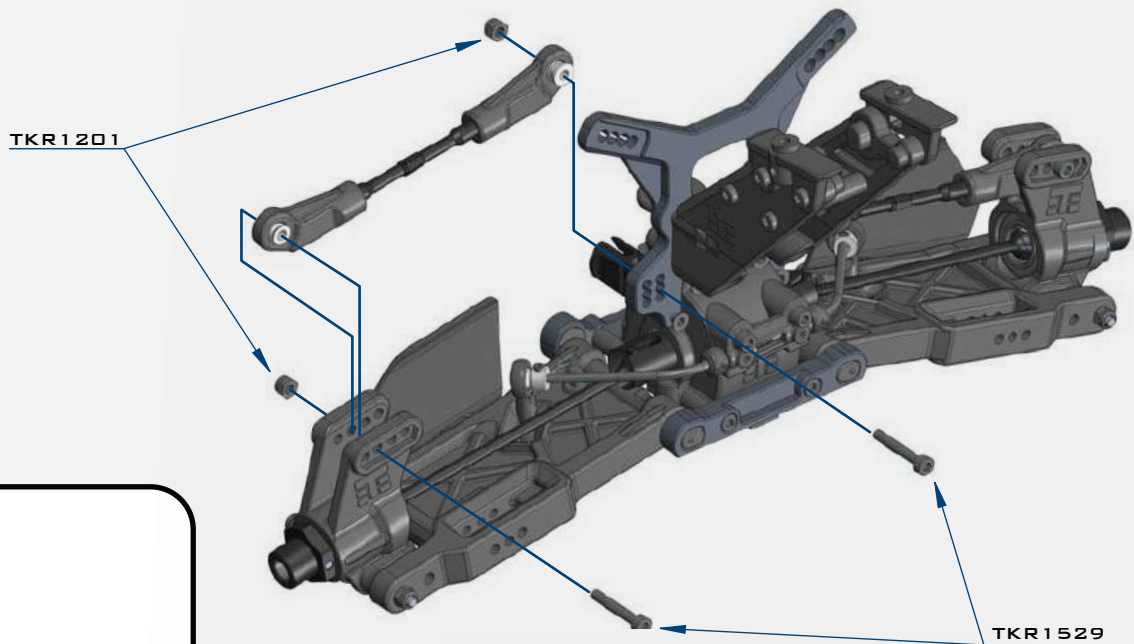
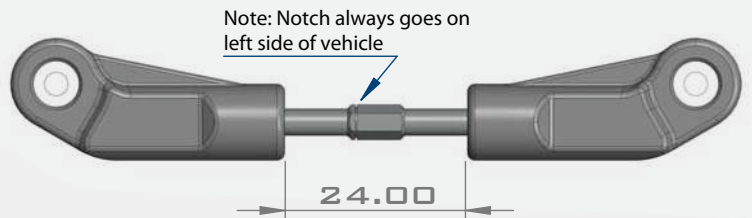
BAG G

REAR CAMBER LINKS



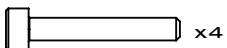
STEP
G-3

STEP
G-4



x4

TKR1201
M3 LOCKNUT BLACK



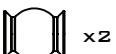
x4

TKR1529
M3X20MM CAP HEAD SCREW



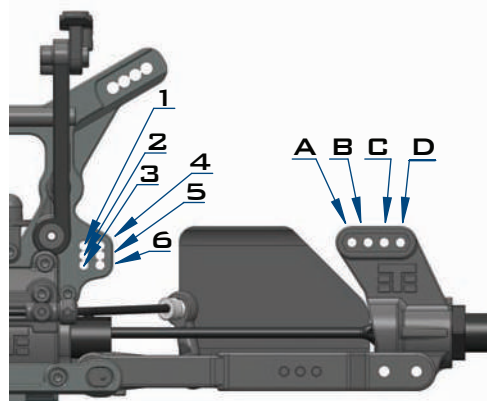
x2

TKR5052
PIVOT BALL M3X6.8MM



x2

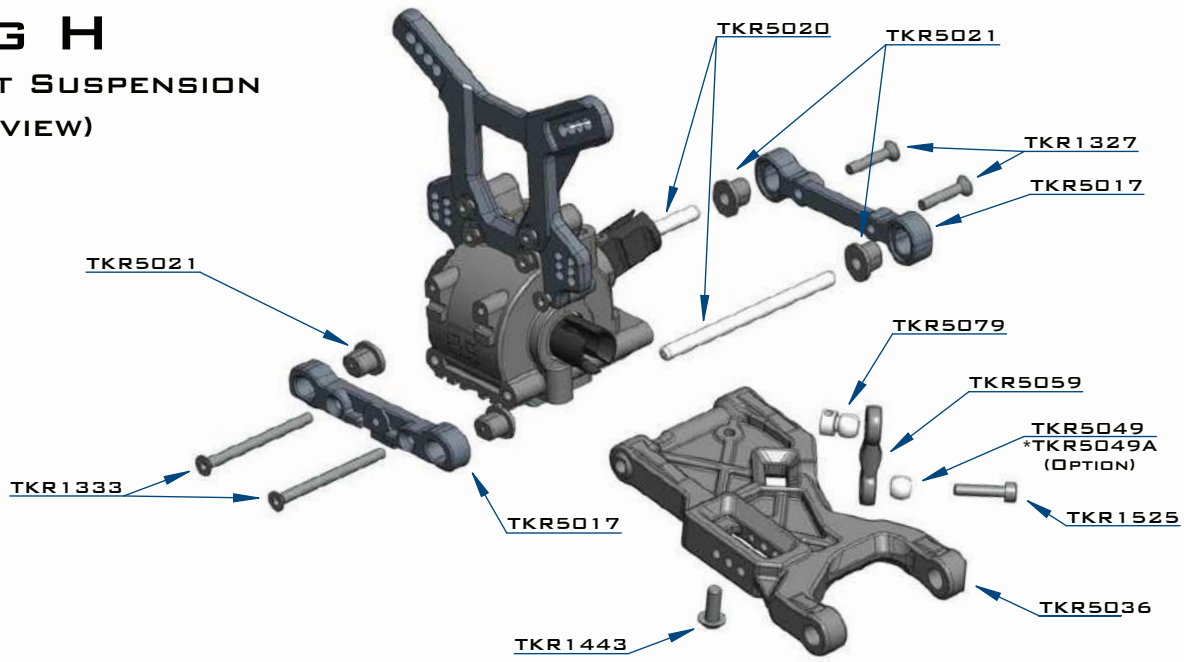
TKR5053
PIVOT BALL M3X6.8MM
NO FLANGE



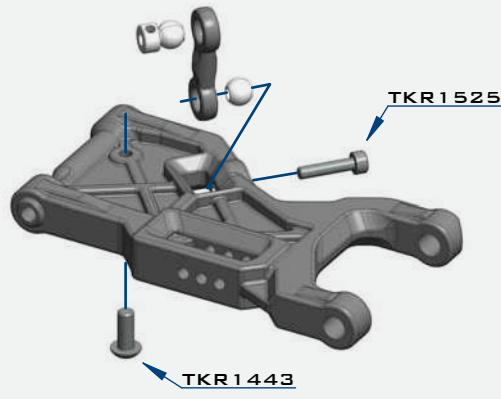
Stock position is 2 / A

BAG H

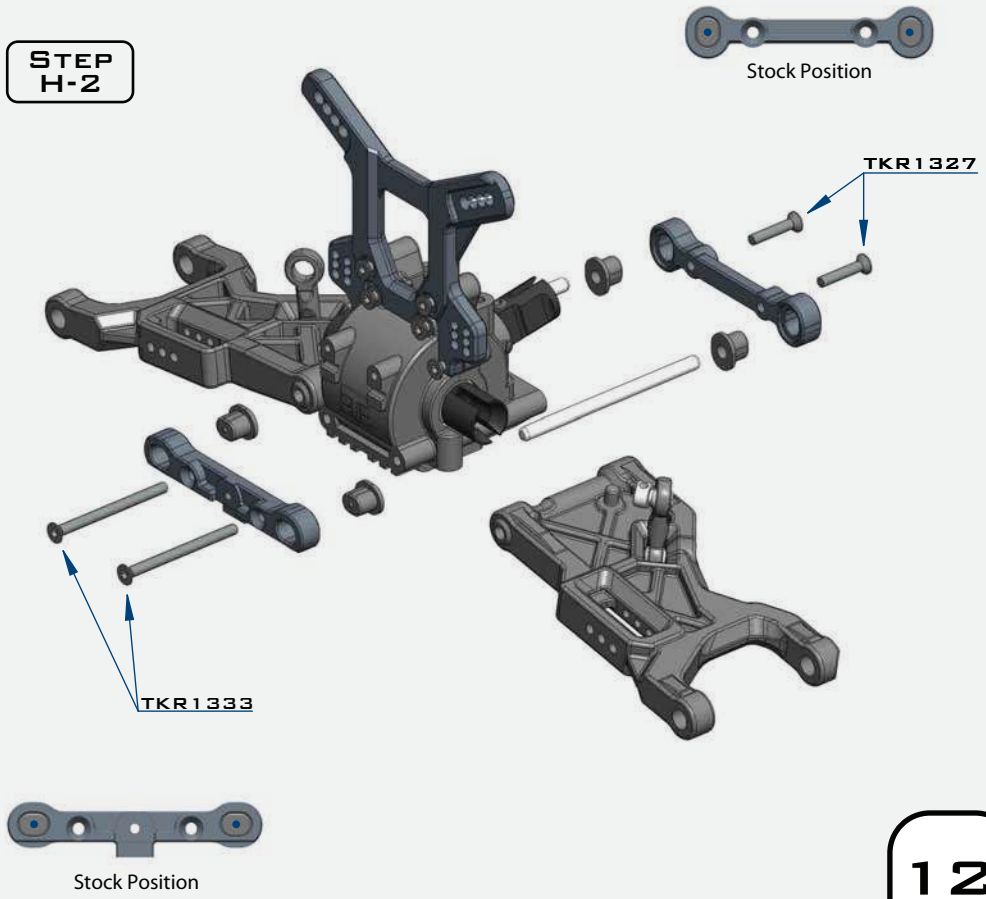
FRONT SUSPENSION (OVERVIEW)

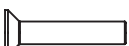
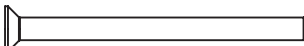
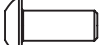
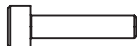




STEP H-1



STEP H-2



-  x2
TKR1327
 M3X16MM FLAT HEAD SCREW
-  x2
TKR1333
 M3X40MM FLAT HEAD SCREW
-  x2
TKR1443
 M4X10MM BUTTON HEAD SCREW
-  x2
TKR1525
 M3X14MM CAP HEAD SCREW
-  x2
TKR5049
 PIVOT BALL SWAY BAR
-  x2
TKR5079
 STABILIZER BALL

BAG H

FRONT SWAY BAR

TKR5081 - 2.3MM
(OPTION)

*TKR5080 - 2.2MM

*TKR5082 - 2.4MM

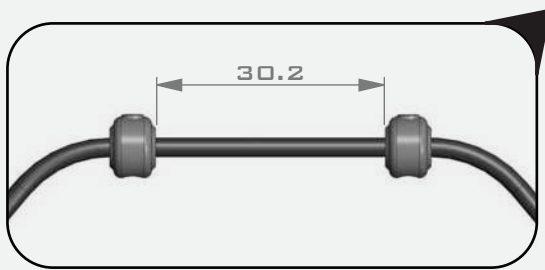
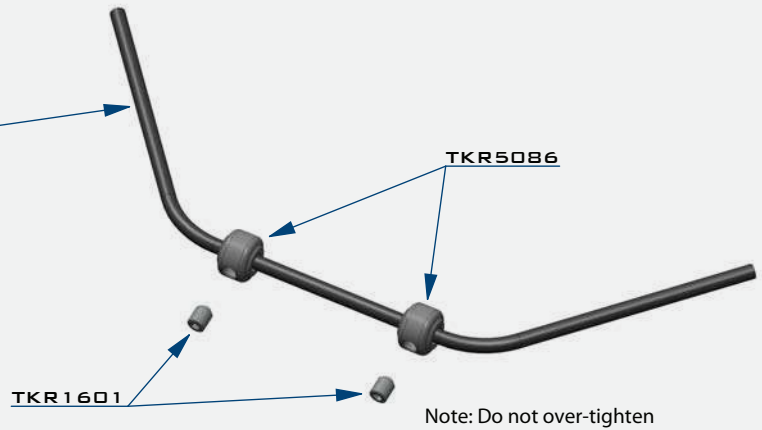
*TKR5083 - 2.5MM

*TKR5084 - 2.6MM

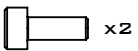
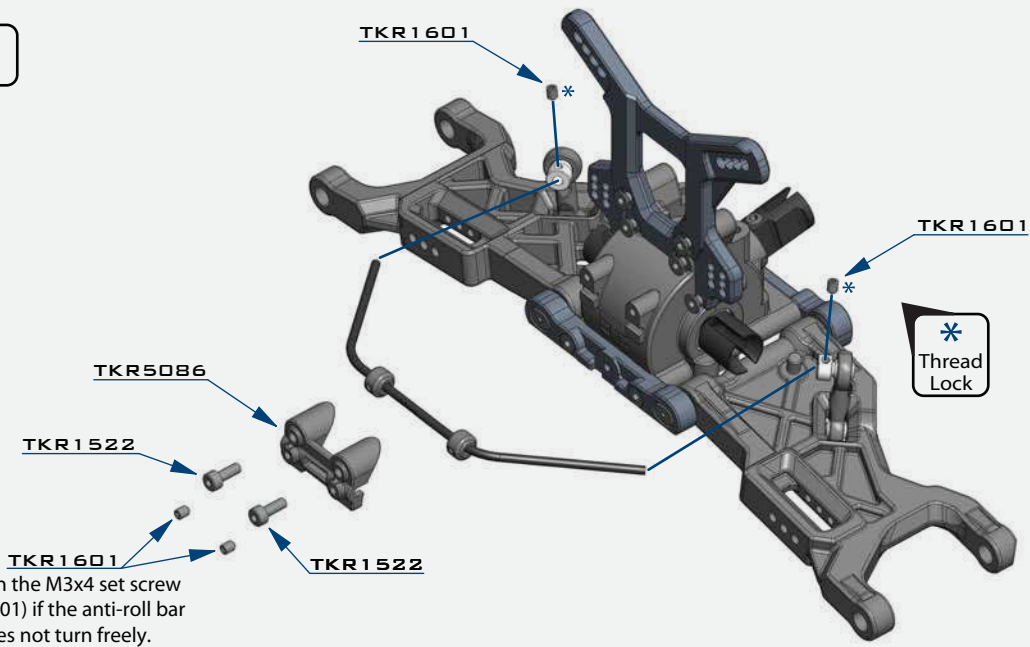
*TKR5085 - 2.8MM

*TKR5087 - 3.0MM

**STEP
H-3**



**STEP
H-4**



TKR1522
M3x8MM CAP HEAD SCREW



TKR1601
M3x4MM SET SCREW



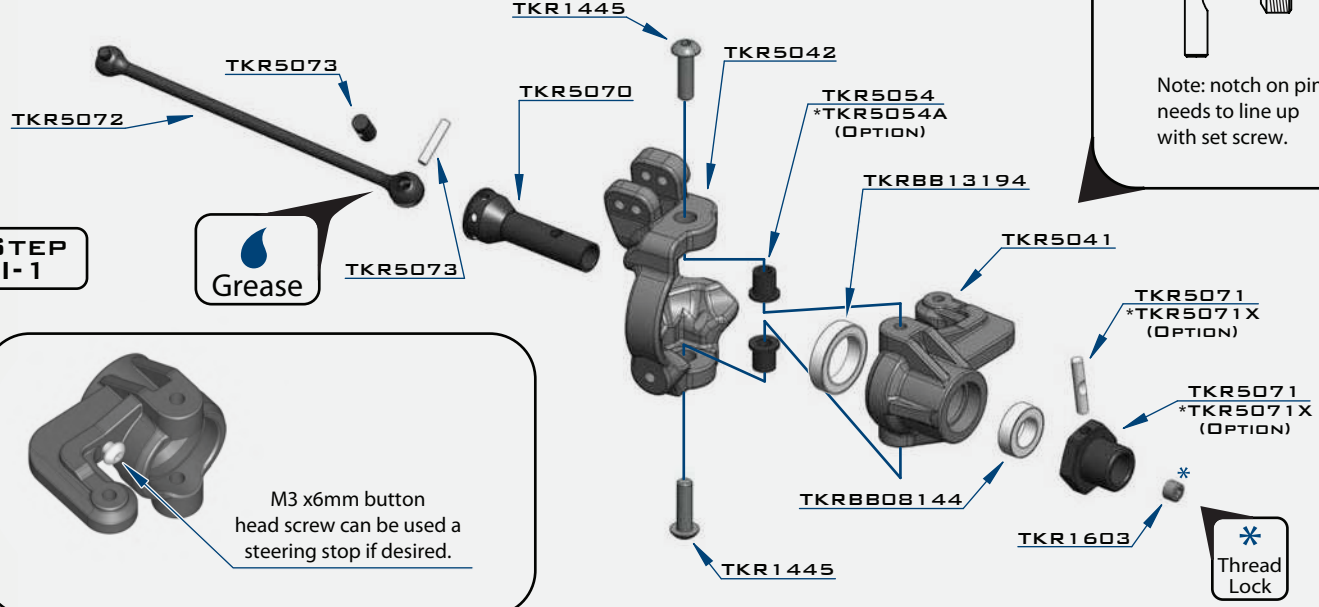
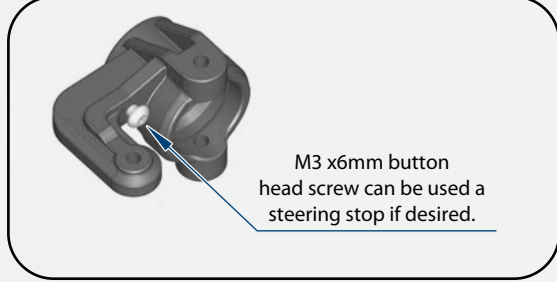
Install the Sway Bar Ball on the Sway Bar Wire until the end of the wire is flush with the ball as picture above.

BAG I

FRONT STEERING

Note: notch on pin needs to line up with set screw.

STEP I-1



x4
TKR1445
M4x14MM BUTTON HEAD SCREW

x2
TKR1447
M4x16MM BUTTON HEAD SCREW

x2
TKR1448
M4x18MM BUTTON HEAD SCREW

x2
TKR1603
M5x4MM SET SCREW

x4
TKR5054
SPINDLE PIN SLEEVE

x4
TKR5055
SUSPENSION PIN SLEEVE FRONT

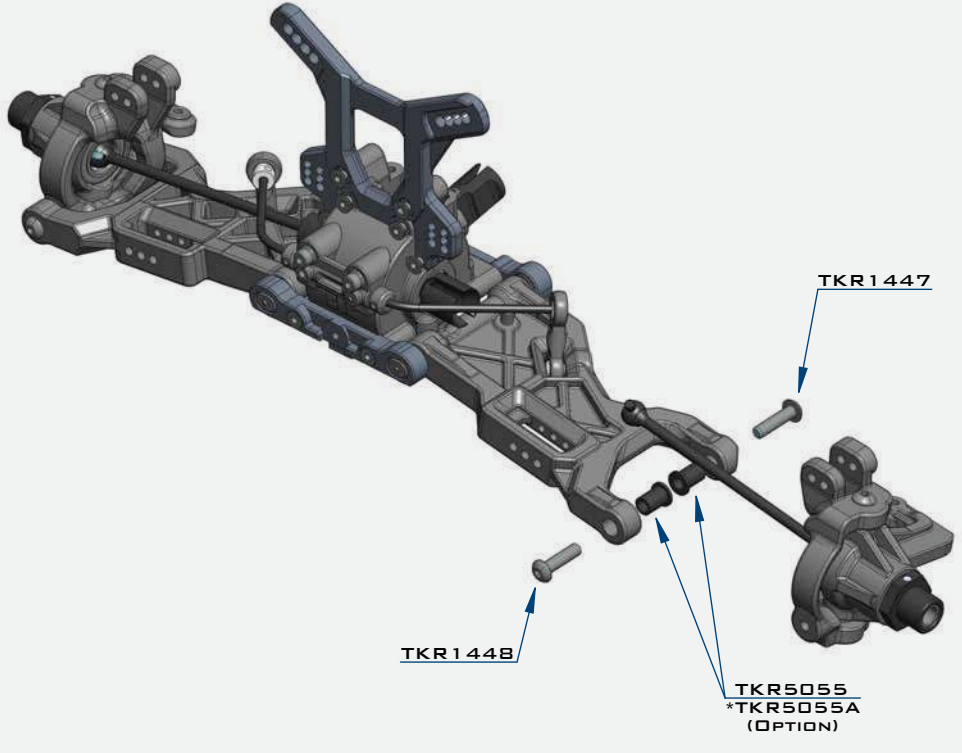
x2
TKR5071
M3x16.8MM PIN

x2
TKR5073
CV JOINT PIN

x2
TKRBB08144

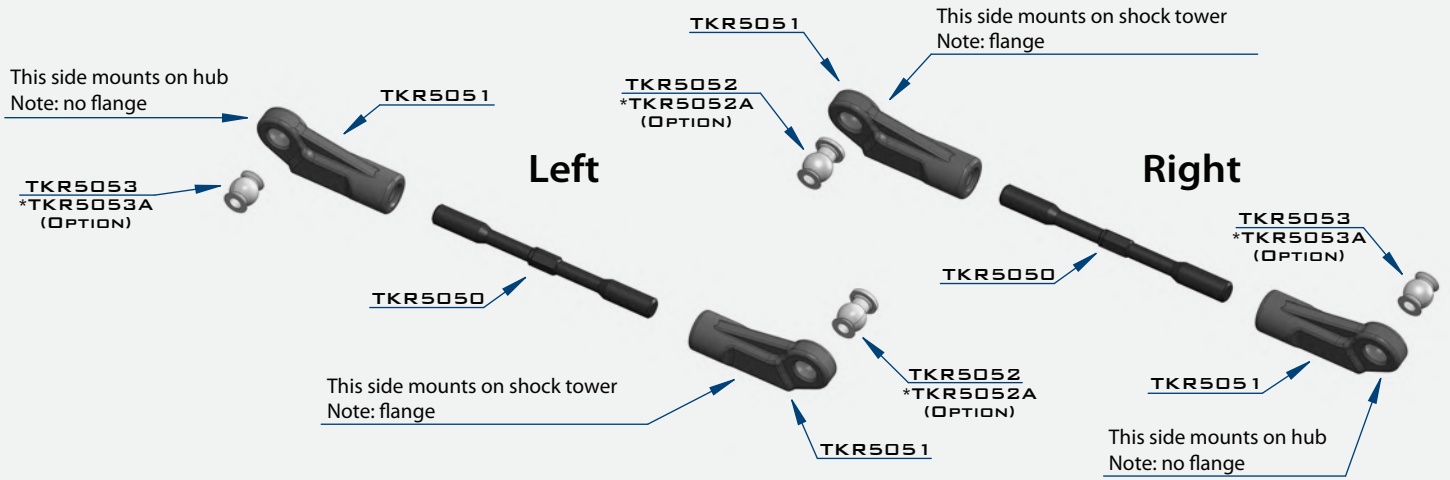
x2
TKRBB13194

STEP I-2

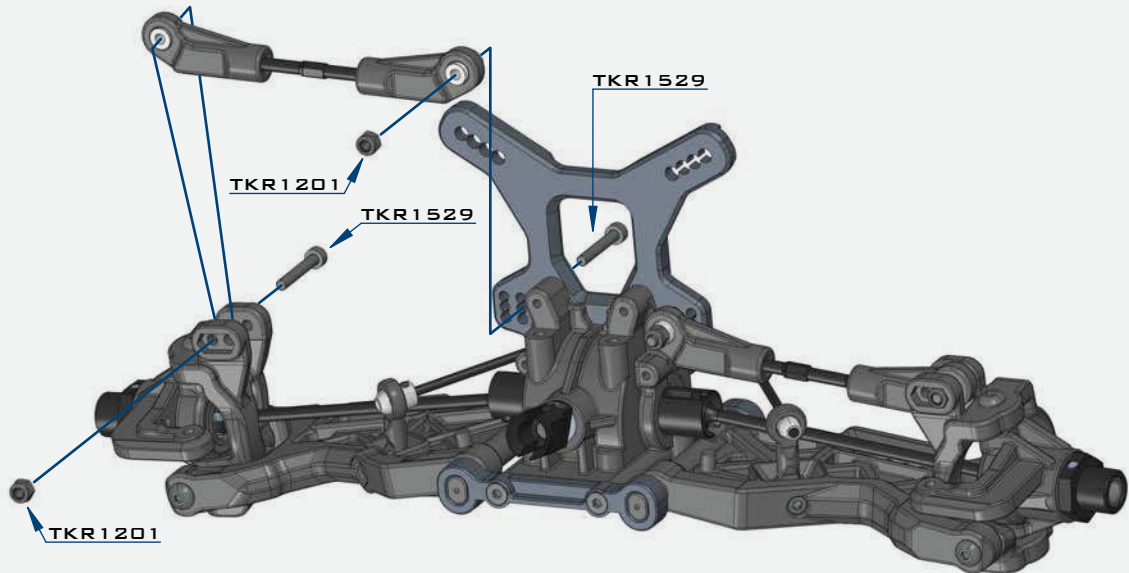


BAG I

FRONT CAMBER LINKS



STEP 1-4



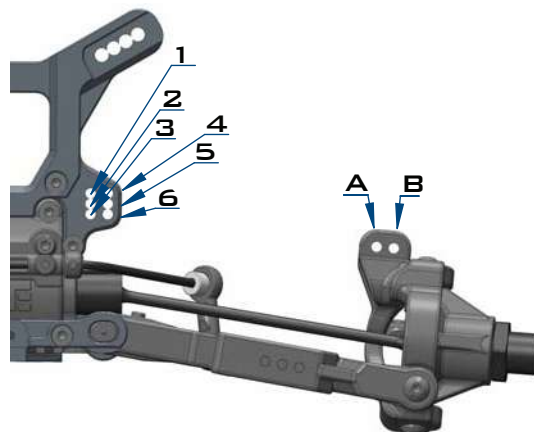
Note: Notch always goes on left side of vehicle

x4
TKR1201
M3 LOCK NUT BLACK

x4
TKR1529
M3X20MM CAP HEAD SCREW

x2
TKR5052
PIVOT BALL M3X6.8MM

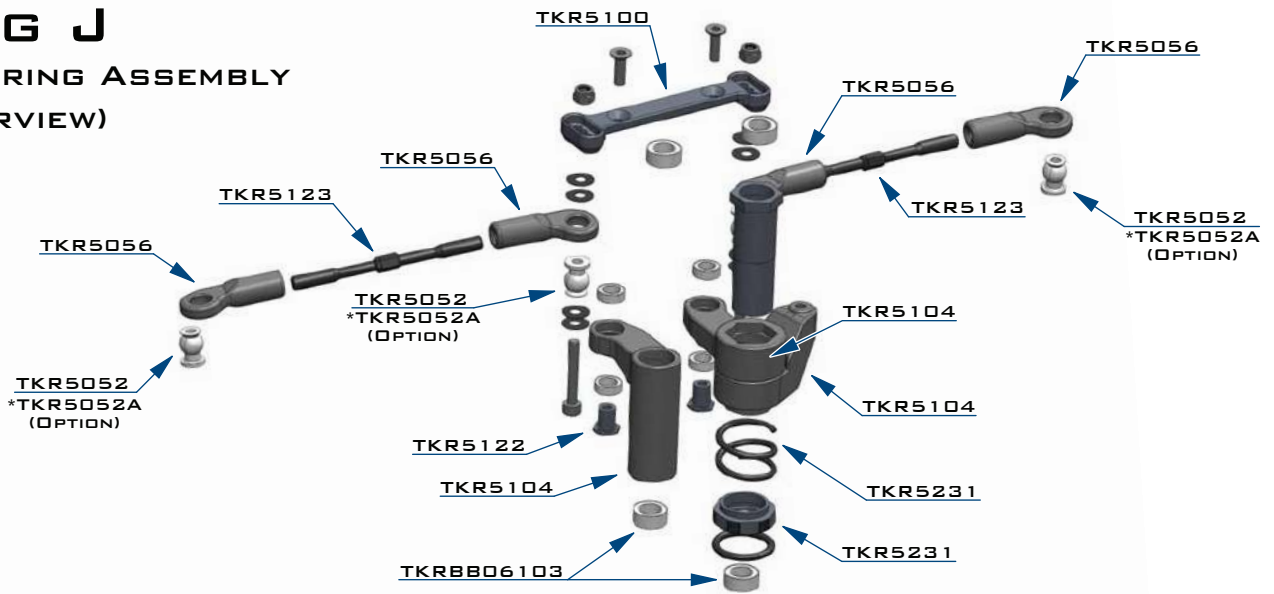
x2
TKR5053
PIVOT BALL M3X6.8MM
NO FLANGE



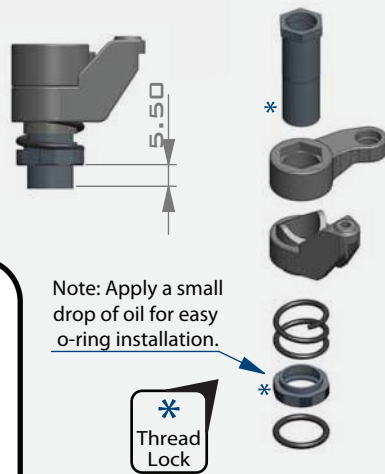
Stock position is 2B

BAG J

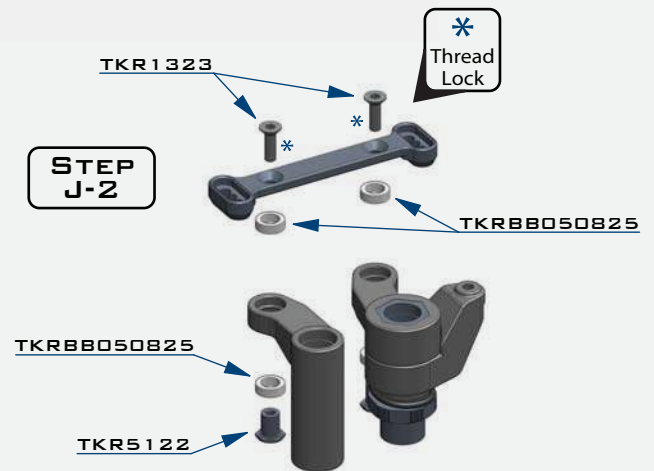
STEERING ASSEMBLY (OVERVIEW)



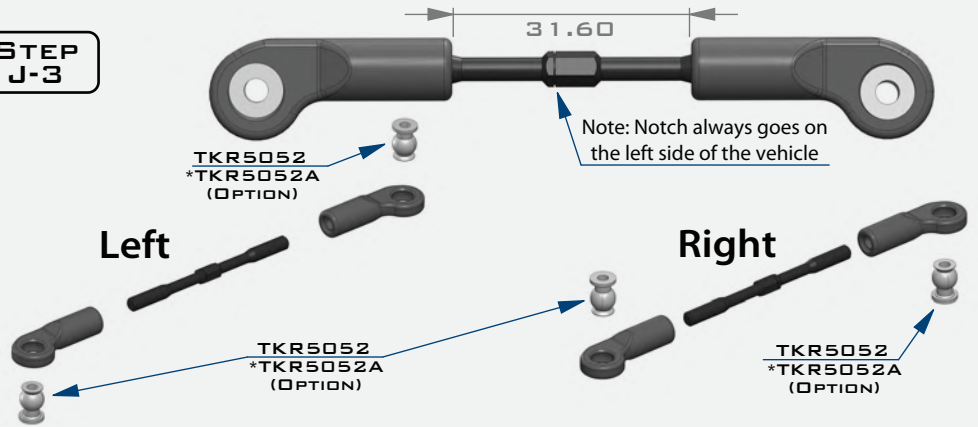
STEP J-1



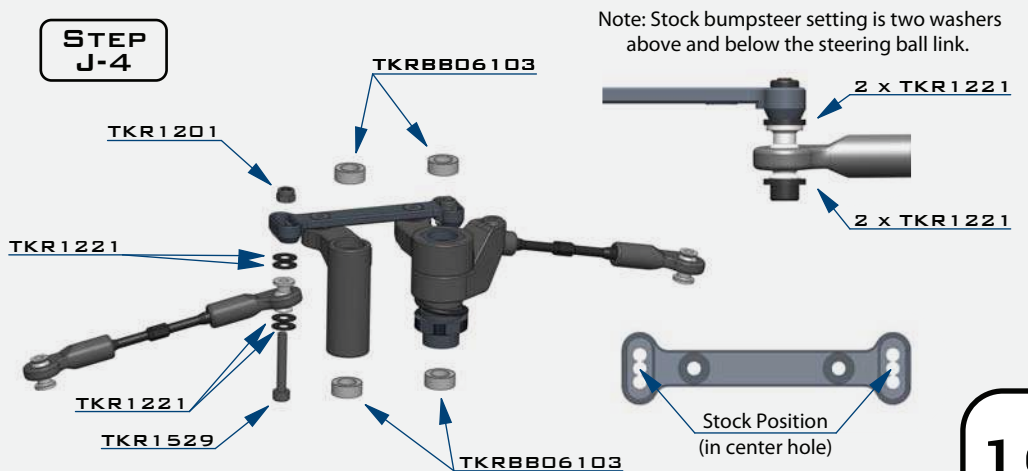
STEP J-2



STEP J-3



STEP J-4



x2
TKR1201
M3 LOCK NUT BLACK



x8
TKR1221
M3X8MM WASHER



x2
TKR1323
M3X10MM FLAT HEAD SCREW



x2
TKR1529
M3X20MM CAP HEAD SCREW



x4
TKR5052
PIVOT BALL M3X6.8MM



x1
TKR5231
O-RING 16X12X2



x4
TKRBB050825
BALL BEARING (5X8X2.5)

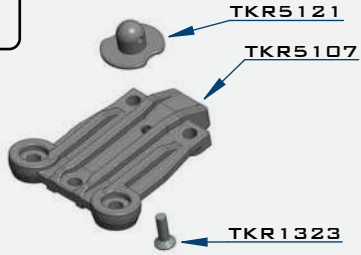


x4
TKRBB06103
BALL BEARING (6X10X3)

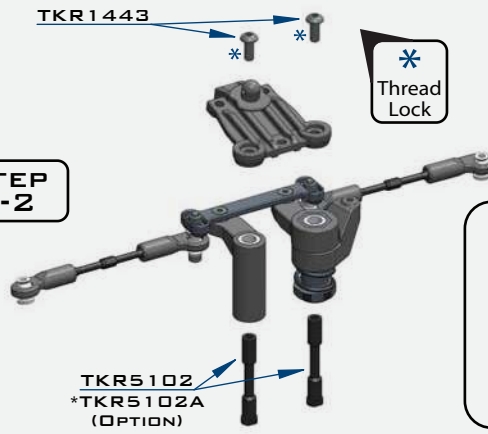
BAG K

FRONT END ASSEMBLY

STEP K-1



STEP K-2

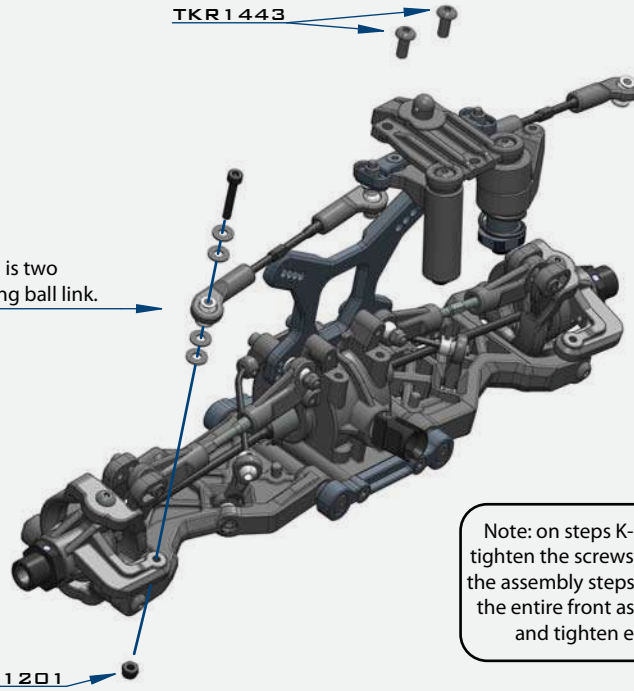


*
Thread Lock

Note Step K-2:
Line up the bottom of the steering posts (TKR5102) with the corresponding recess cut in the chassis.

STEP K-3

Note: Initial bumpsteer setting is two washers above and below the steering ball link.



Note: on steps K-2, K-3 and K-4 Do not tighten the screws all the way down until the assembly steps are complete. Position the entire front assembly on the chassis and tighten each screw evenly.

x2
TKR1201
M3 LOCK NUT BLACK

x8
TKR1221
M3x8MM WASHER

x1
TKR1323
M3x10MM FLAT HEAD SCREW

x2
TKR1343
M4x10MM FLAT HEAD SCREW

x4
TKR1344
M4x12MM FLAT HEAD SCREW

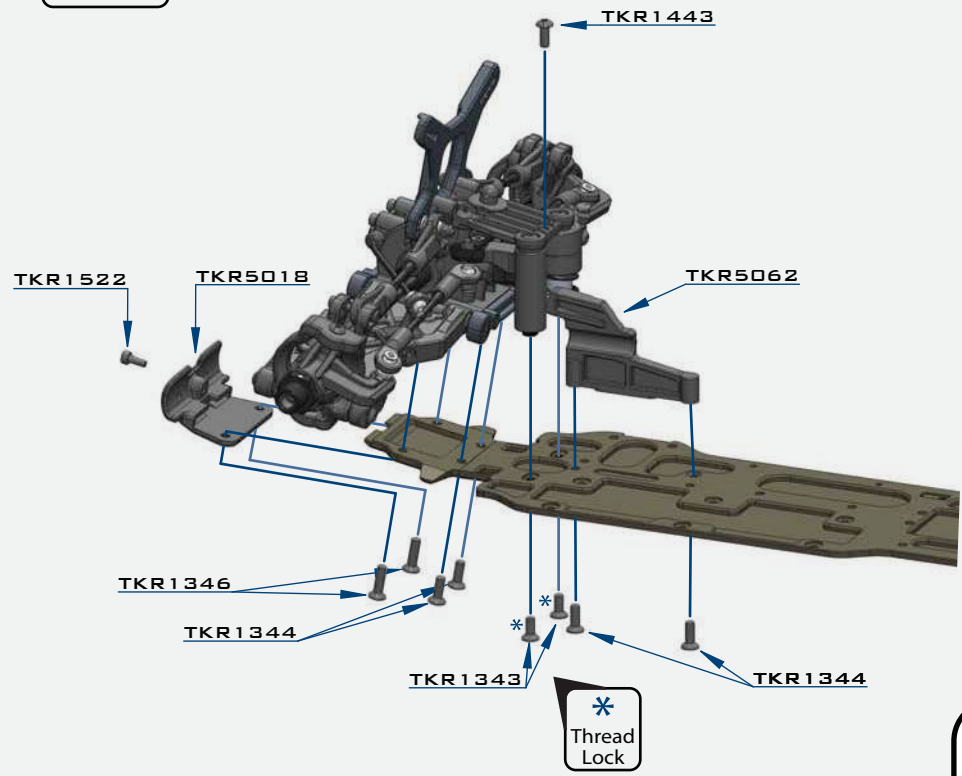
x2
TKR1346
M4x15MM FLAT HEAD SCREW

x5
TKR1443
M4x10MM BUTTON HEAD SCREW

x1
TKR1522
M3x8MM CAP HEAD SCREW

x2
TKR1529
M3x20MM CAP HEAD SCREW

STEP K-4

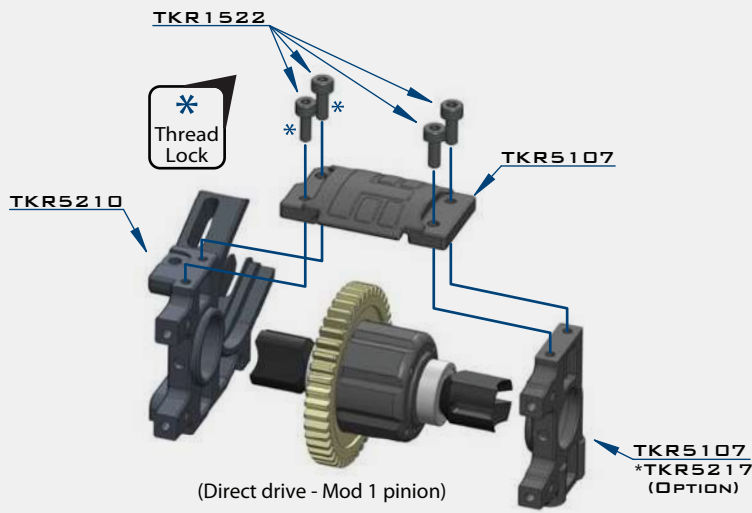


*
Thread Lock

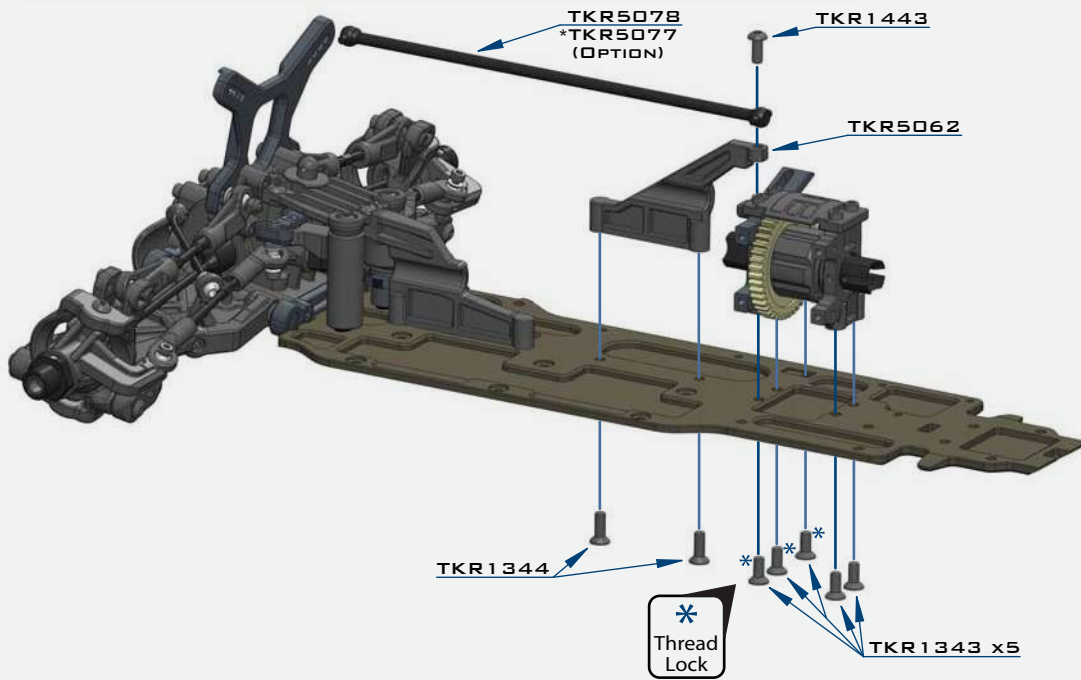
BAG L

CENTER/REAR ASSEMBLY

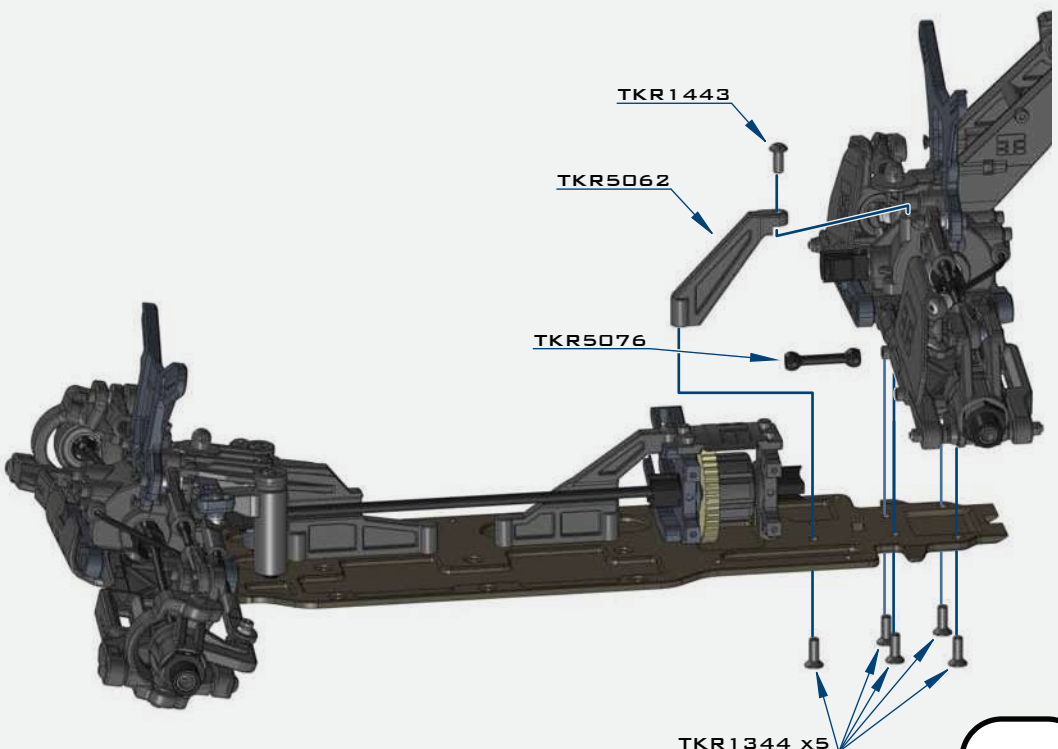
STEP L-1







STEP L-2



STEP L-3



-  x5
TKR1343
M4x10MM FLAT HEAD SCREW
-  x7
TKR1344
M4x12MM FLAT HEAD SCREW
-  x2
TKR1443
M4x10MM BUTTON HEAD SCREW
-  x4
TKR1522
M3x8MM CAP HEAD SCREW

SHOCK FILLING INSTRUCTIONS

FOR BOTH FRONT AND REAR SHOCKS

The following steps and information will provide you with the proper way to fill and bleed your Tekno RC EB48 shocks.

After thorough testing, we've found it's easiest to complete steps 1 through 3 on each shock before moving onto step 4. By the time you've finished step 3 on the last shock the first one should be ready for step 4.

- Step 1. Extend the shock shaft all the way down. Fill the shock with oil until the body is approximately 90% full.
- Step 2. Slowly pump the shock shaft up and down about 3-5 times to release air bubbles from underneath the piston.
- Step 3. Let the shock rest vertically with the shock shaft fully extended for five minutes or until all of the air bubbles have released.
- Step 4. Push the shaft in to the amount of rebound desired. For example, to achieve little or no rebound, push the shaft in all the way (in this case, about 1/4" of shaft showing). For 50% rebound, push the shaft in half way. Make sure that you match the rebound amount between the left and right shocks. We've found that running the least amount of (0%) rebound in both the front and rear shocks gives the most consistent overall performance.
- Step 5. Next you will top off the shock with oil. The goal is not to fill the body completely, but only to fill it enough so that when the bladder is placed on top there will be no air underneath. If you do overfill the shock, it won't hurt performance, it will just spill out and make a little bit of a mess.
- Step 6. In this step you will be placing the bladder on top the shock body. While holding the shock shaft in the desired position from step 4, push the bladder down onto the shock body using your fingertip to fully seat the lip of the bladder onto the rim of the shock body. If done correctly a small amount of oil should bleed out. If no oil is released you may have some air trapped underneath the bladder and you will need to remove the bladder and repeat step 5. Once the bladder is seated onto the shock body, pull the shock shaft down about 20mm. This will "suck" the bladder down and hold it in place. Carefully wipe away the excess oil that was bled, being careful not to disrupt the seal of the bladder on the shock body.
- Step 7. While continuing to hold the shock vertically, screw the shock cap down onto the body and tighten fully. The cap will bottom out easily, but the bladder will be sealed tight. You can use an adjustable wrench to hold the bottom of the shock while tightening the shock cap down to be sure they are tight.

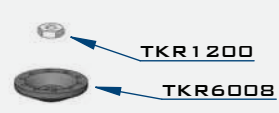
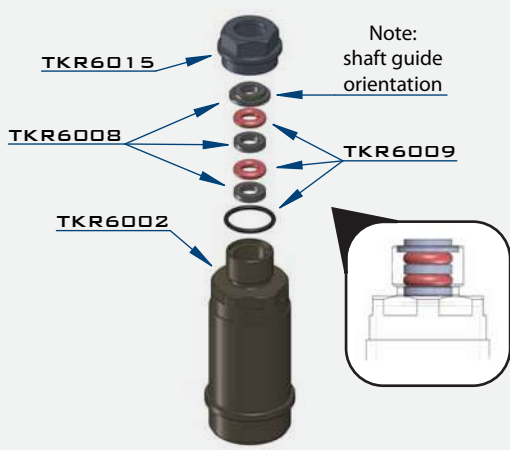
You can build the shocks in any manner you prefer, but we've found this way provides the best handling and more consistent shocks. They will also last longer between rebuilds.

Use part #'s TKR6008 (pistons and guides) and TKR6009 (o-ring pack) to rebuild your shocks regularly.

BAG M

FRONT SHOCK ASSEMBLY

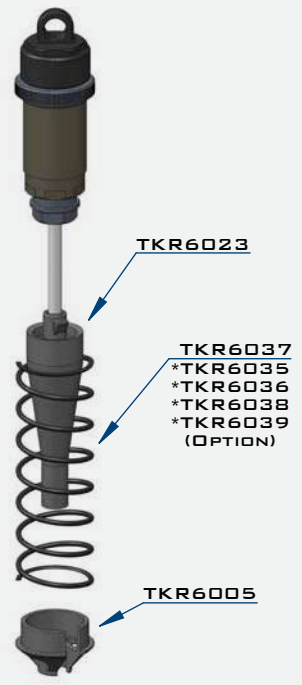
STEP M-1



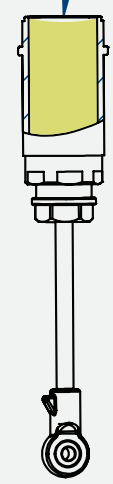
Note: front shocks use shorter shock bodies - TKR6002, shorter shock shafts - TKR6004, shorter springs - TKR6037 and shorter shock boots - TKR6023



STEP M-2

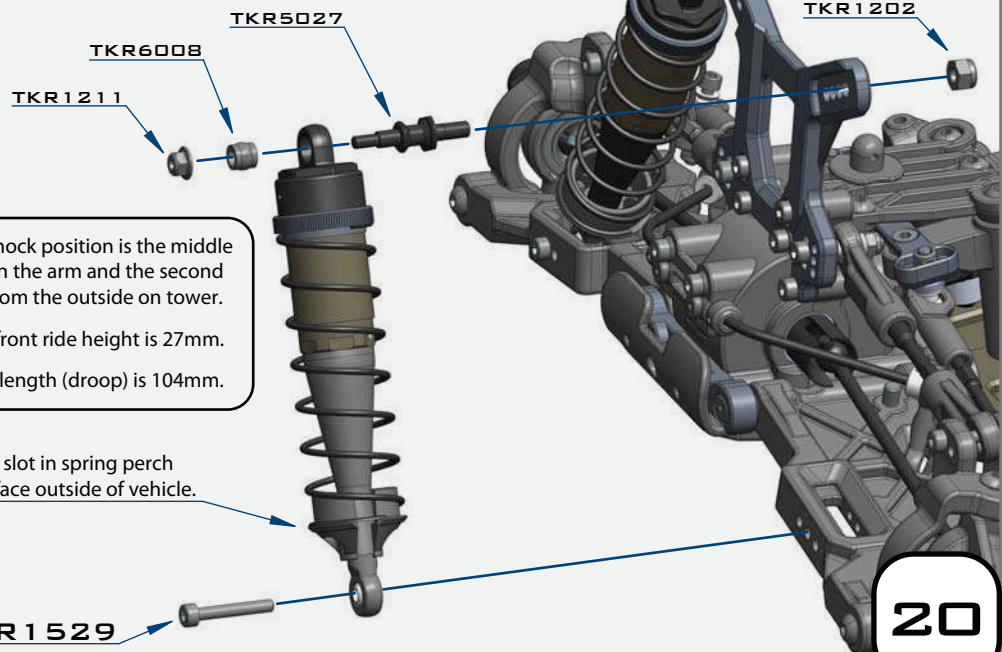


Fill oil level just below the top of the shock body.
Use #450 Oil Front




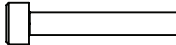



Note: make sure to tighten both cartridge cap (TKR6015) and shock cap (TKR6003) to ensure a proper seal. Tools may be required.

STEP M-3



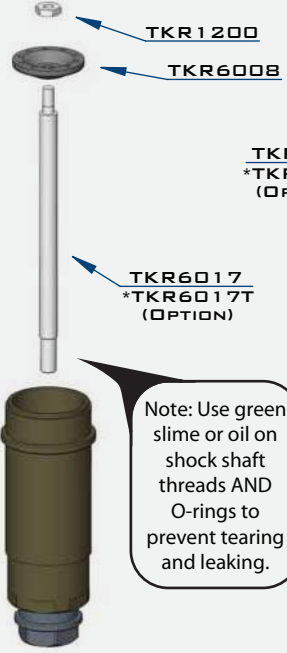
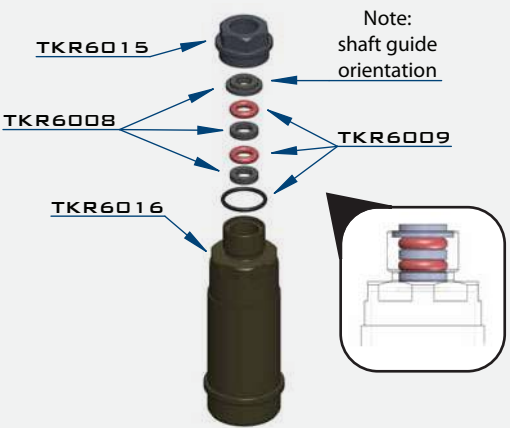
Stock shock position is the middle hole on the arm and the second hole from the outside on tower.
Stock front ride height is 27mm.
Shock length (droop) is 104mm.

-  x2
TKR1200
HEX 4035 - M2.5
-  x2
TKR1202
M4 LOCK NUT BLACK
-  x2
TKR1211
M3 LOCK NUT FLANGE BLACK
-  x2
TKR1529
M3x20MM CAP HEAD SCREW
-  x2
TKR5027
SHOCK STAND OFF

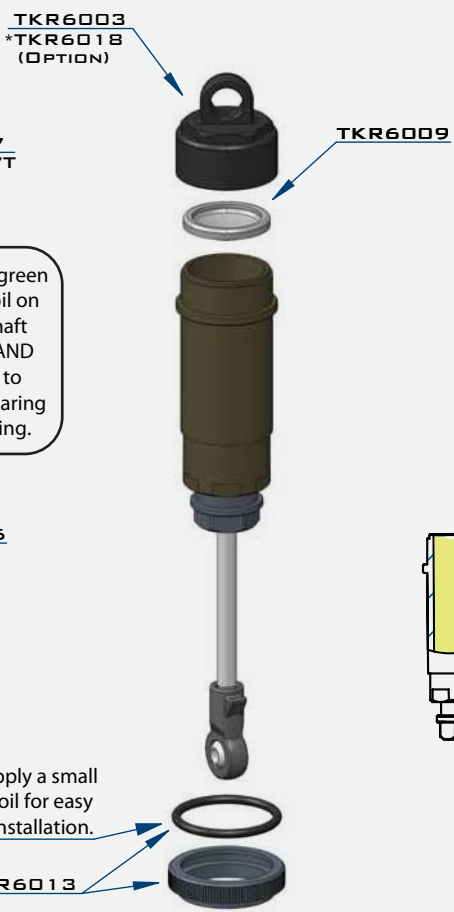
BAG N

REAR SHOCK ASSEMBLY

STEP N-1

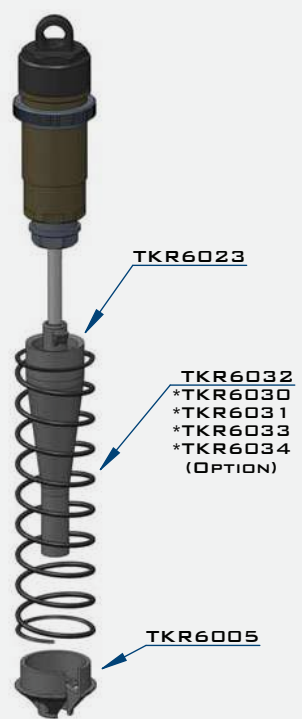


Note: rear shocks use longer shock bodies - TKR6016, longer shock shafts - TKR6017, longer springs - TKR6032 and longer shock boots - TKR6023



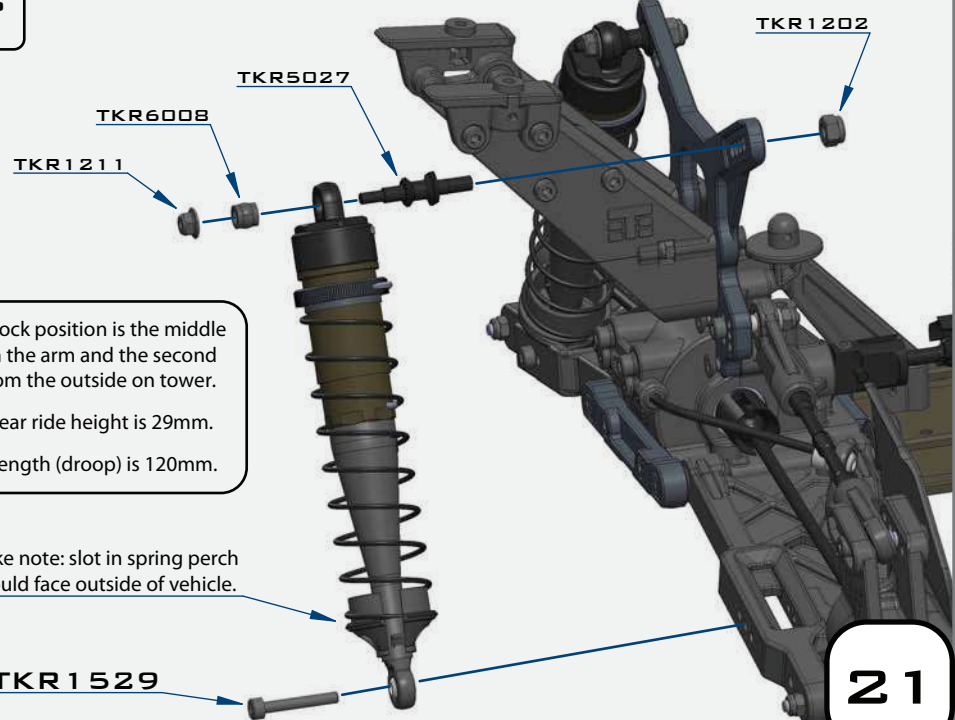
Fill oil level just below the top of the shock body
Use #350 Oil Rear

STEP N-2




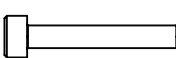



Note: make sure to tighten both cartridge cap (TKR6015) and shock cap (TKR6003) to ensure a proper seal. Tools may be required.

STEP N-3



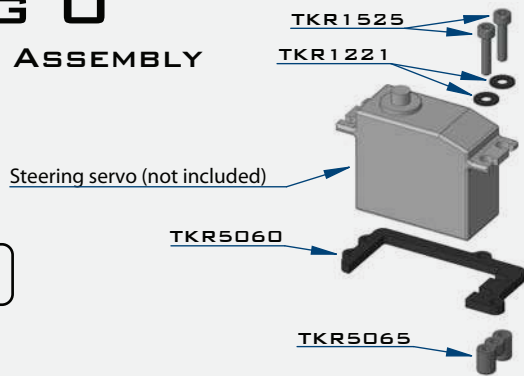
Stock shock position is the middle hole on the arm and the second hole from the outside on tower.
Stock rear ride height is 29mm.
Shock length (droop) is 120mm.

-  x2
TKR1200
HEX 4035 - M2.5
-  x2
TKR1202
M4 LOCK NUT BLACK
-  x2
TKR1211
M3 LOCK NUT FLANGE BLACK
-  x2
TKR1529
M3x20MM CAP HEAD SCREW
-  x2
TKR5027
SHOCK STAND OFF

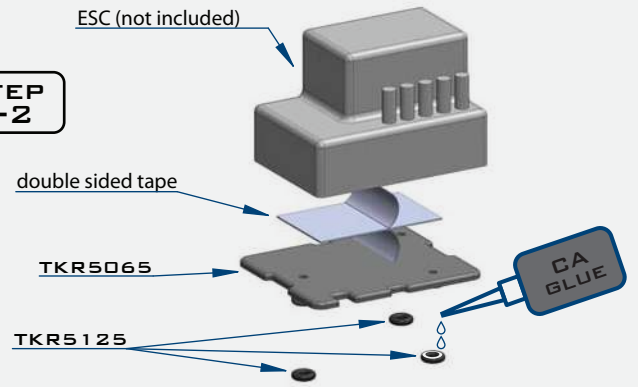
BAG 0

FINAL ASSEMBLY

STEP 0-1

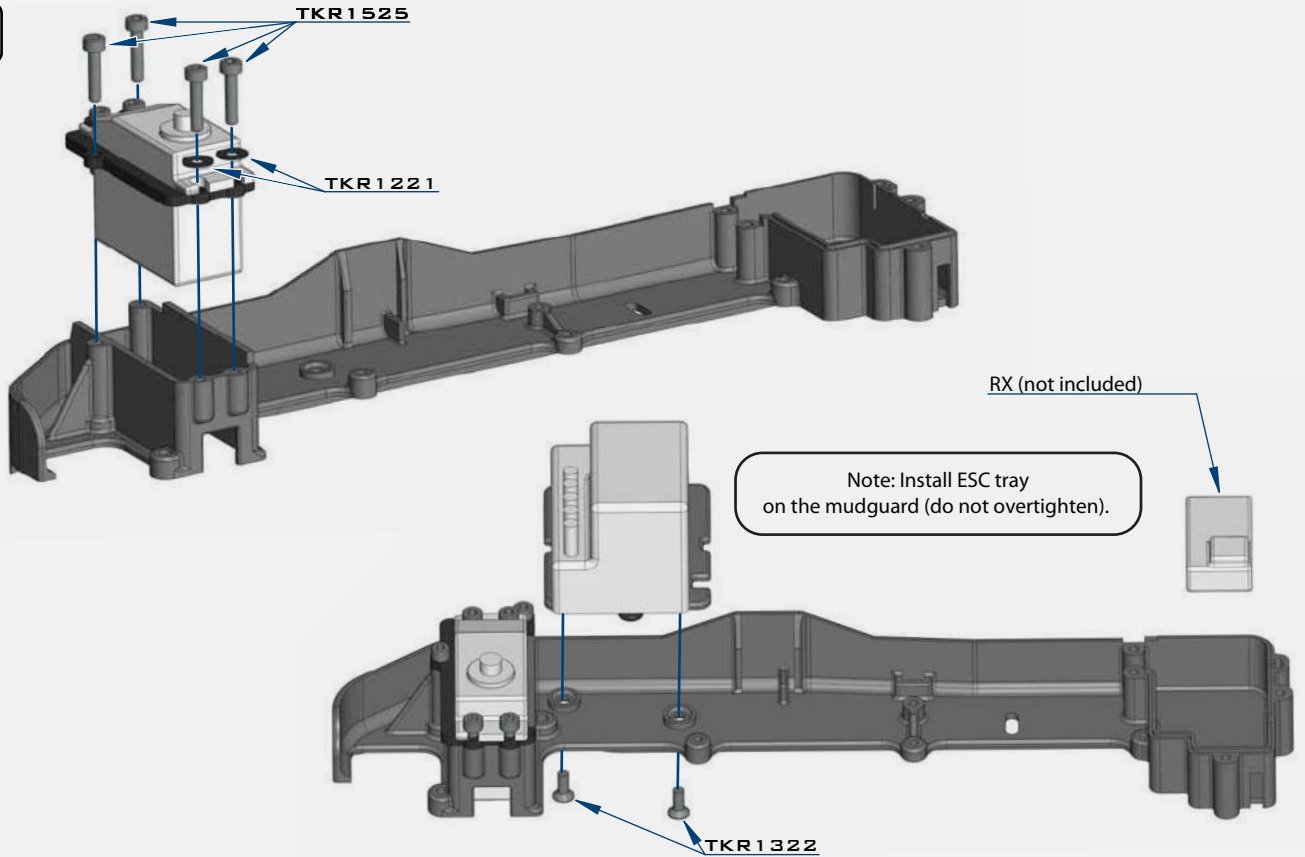


STEP 0-2



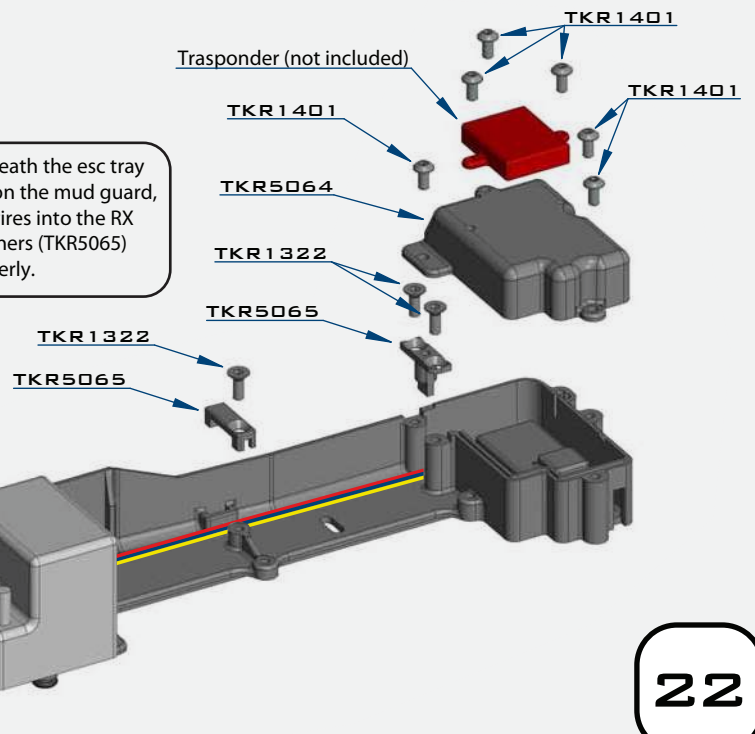
Note: CA glue 3 black o-rings (TKR5125) to the bottom legs of the ESC tray.

STEP 0-3



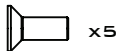
STEP 0-4

Note: Feed the servo wire underneath the esc tray in between the mounting screws on the mud guard, then feed both ESC and servo wires into the RX box as shown. Install wire retainers (TKR5065) to secure them properly.



x4

TKR1221
M3X8MM WASHER



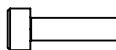
x5

TKR1322
M3X8MM FLAT HEAD SCREW



x6

TKR1401
M3X6MM BUTTON HEAD SCREW



x6

TKR1525
M3X14MM CAP HEAD SCREW



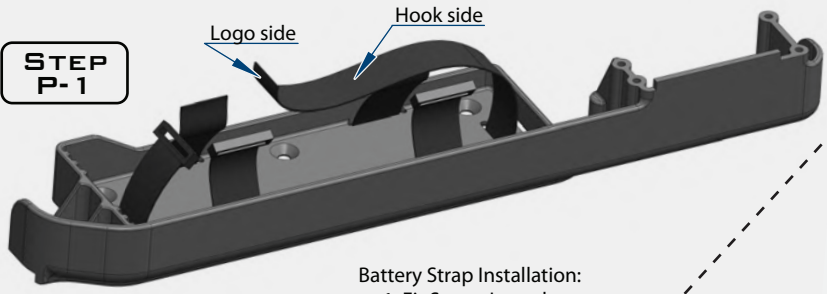
x3

TKR5125
O-RING 3X7MM

BAG P

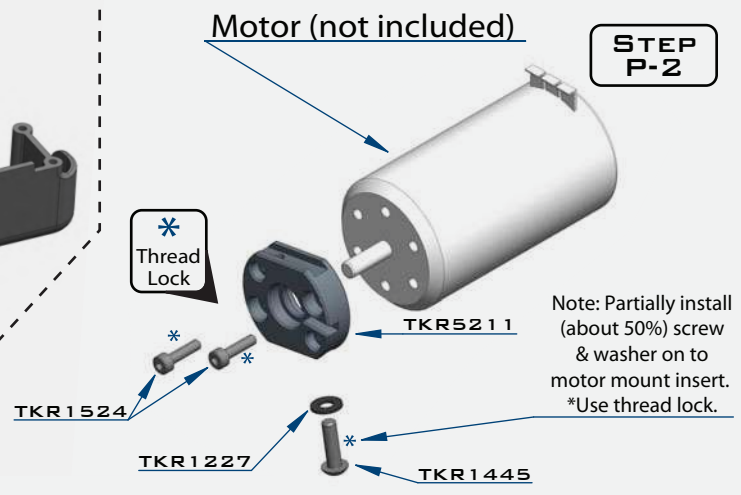
FINAL ASSEMBLY

STEP P-1



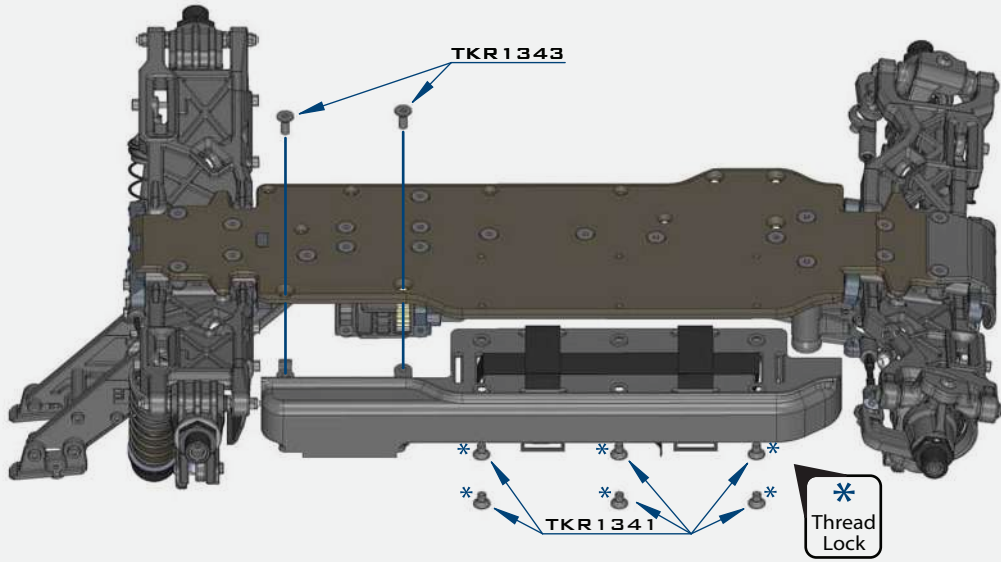
Battery Strap Installation:
 1. Fit Straps Loosely
 2. Position On Chassis
 3. Proceed To P-2

STEP P-2

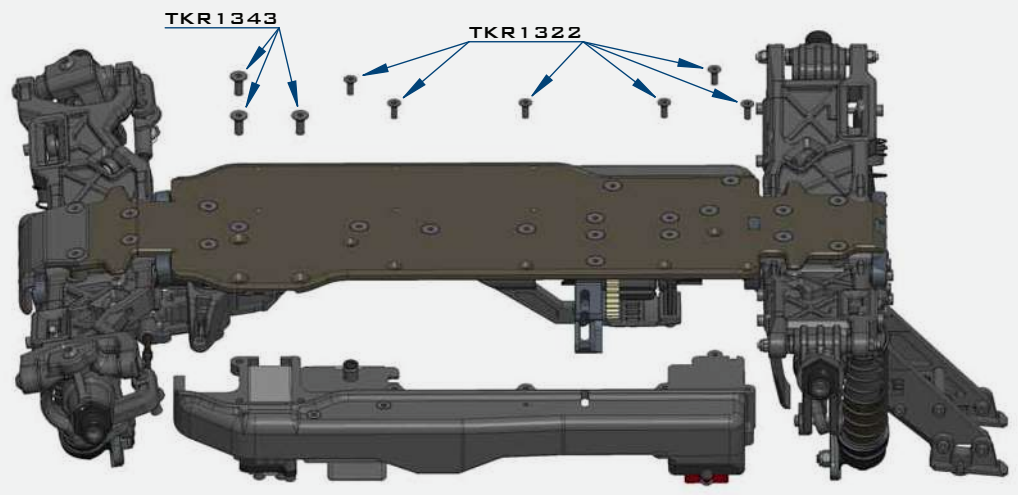








Note: Partially install (about 50%) screw & washer on to motor mount insert.
 *Use thread lock.

STEP P-3

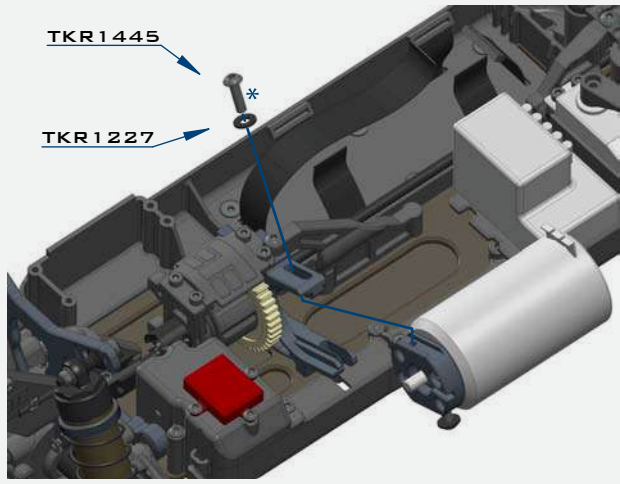


STEP P-4



-  X2
TKR1227
M4X9MM WASHER
-  X6
TKR1322
M3X8MM FLAT HEAD SCREW
-  X6
TKR1341
M4X6MM FLAT HEAD SCREW
-  X5
TKR1343
M4X10MM FLAT HEAD SCREW
-  X2
TKR1445
M4X14MM BUTTON HEAD SCREW
-  X2
TKR1524
M3X12MM CAP HEAD SCREW

STEP P-5

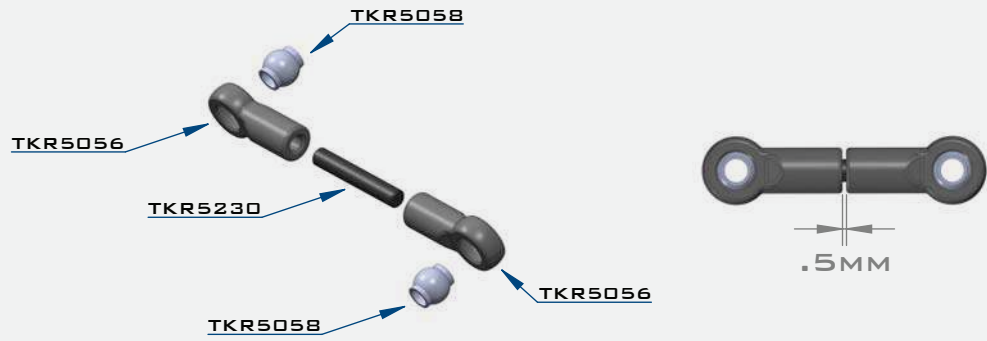


Note: Install MOD1 pinion (TKR4171-4190) or Tekno RC Traktion Drive / Elektri-Clutch slipper system (TKR4301X) at this step. Adjust gear mesh and tighten screws (TKR1445) well.
 *Use thread lock.

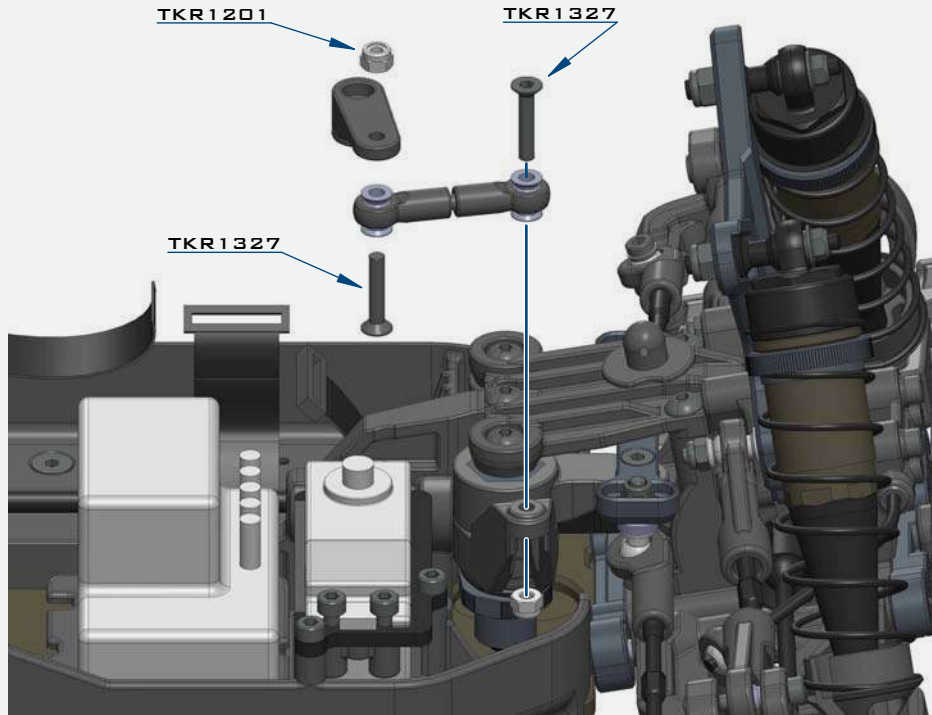
BAG P

FINAL ASSEMBLY

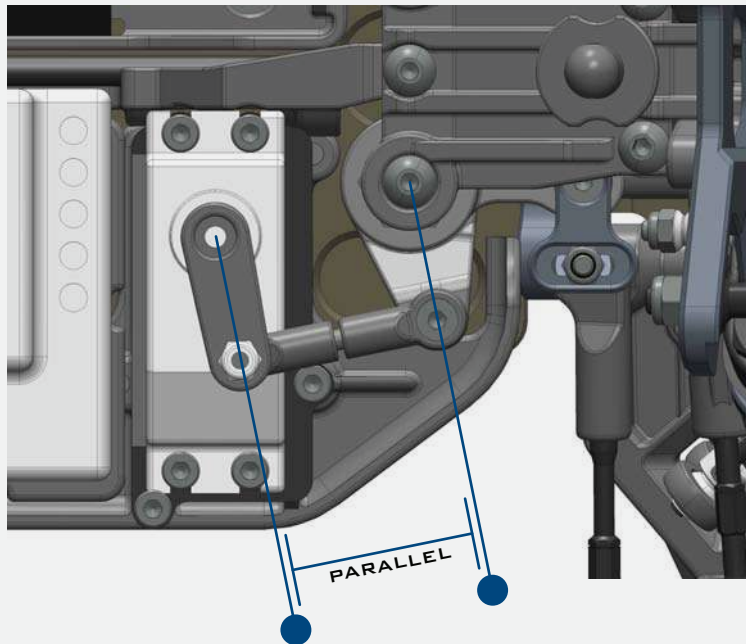
STEP
P-6



STEP
P-7



STEP
P-8



x1
TKR1201
M3 LOCK NUT BLACK

x2
TKR1327
M3X16MM FLAT HEAD SCREW

x2
TKR5058
PIVOT BALL M3X5.8MM
NO FLANGE

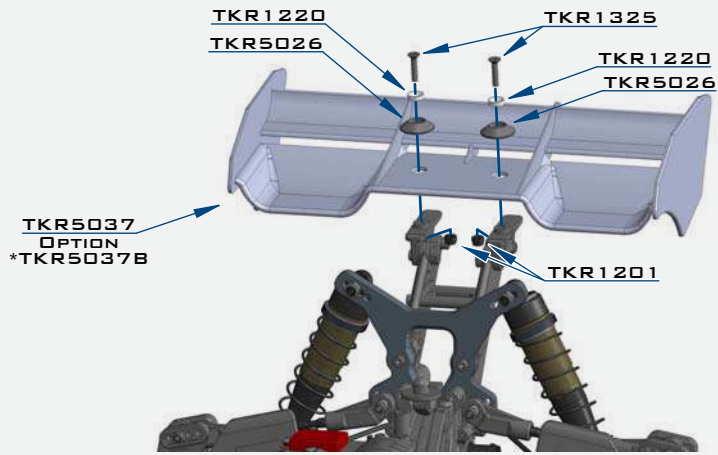
x1
TKR5230
M3X18 THREADED ROD

Note: Offset servo arm so it is parallel with the connecting arm at neutral or zero servo position.

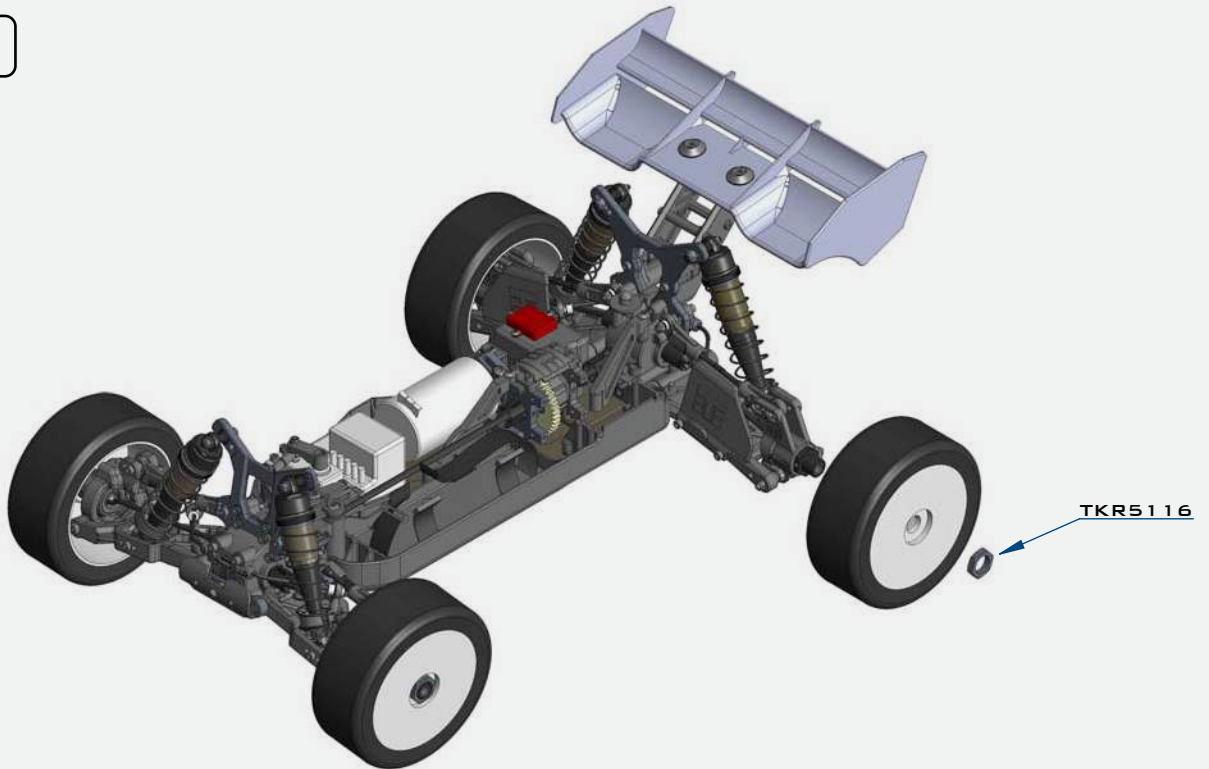
BAG Q

WING/WHEELS/BODY

STEP Q-1

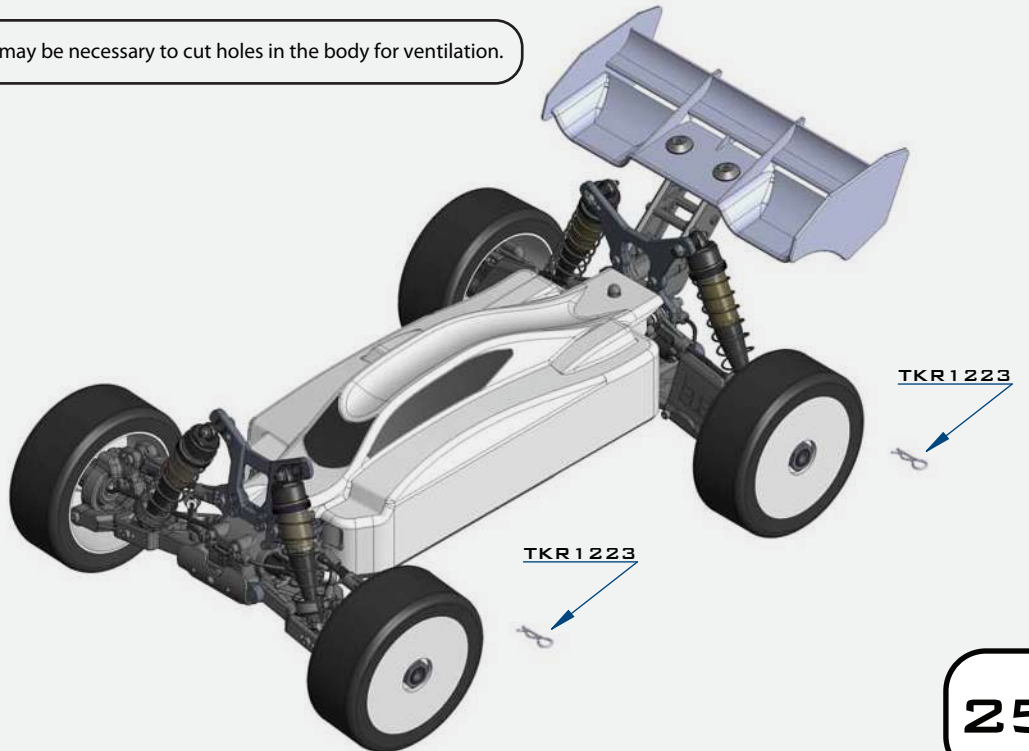



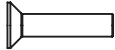

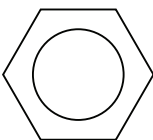
STEP Q-2



STEP Q-3

Note: It may be necessary to cut holes in the body for ventilation.



-  x2
TKR1201
M3 LOCK NUT BLACK
-  x2
TKR1325
M3X14MM FLAT HEAD SCREW
-  x2
TKR1223
BODY CLIP
-  x4
TKR5116
WHEEL NUT

Coming Soon!

TKR5000 Spare Parts List
TKR5000 - EB48 Electric 1/8th Scale 4WD Buggy Kit
TKR5000F - Chassis (7075, hard anodized)
TKR5010 - Battery Tray, Mud Guard (left side)
TKR5011 - Radio Tray, Mud Guard (right side)
TKR5012 - Gearbox (front)
TKR5016 - Gearbox (rear)
TKR5013 - Adjustable Hinge Pin Braces (rear, 7075 CNC, gun metal ano)
TKR5017 - Adjustable Hinge Pin Braces (front, 7075 CNC, gun metal ano)
TKR5018 - Front Bumper
TKR5020 - Hinge Pins (inner, front/rear)
TKR5021 - Hinge Pin Inserts, Wheelbase Shims (complete set)
TKR5026 - Wing Mount, Body Mount Set
TKR5027 - Shock Standoffs (2pcs)
TKR5028 - Shock Tower (front, 7075 NC, gun metal ano)
TKR5029 - Shock Tower (rear, 7075 NC, gun metal ano)
TKR5030 - Suspension Arms (rear, 2pcs)
TKR5033 - Rear Arm Mud Guards
TKR5034 - Hinge Pins (outer, rear)
TKR5036 - Suspension Arms (front, 2pcs)
TKR5037 - Wing (white)
TKR5037B - Wing (black)
TKR5040 - Rear Hubs (2pcs)
TKR5041 - Spindles (left and right)
TKR5042 - Spindle Carriers (left and right)
TKR5049 - Pivot Balls (6.8mm, no flange, sway bars, shock ends, 4pcs)
TKR5049A - Pivot Balls (6.8mm, no flng, sway bar, shck ends, almmn, 4pcs)
TKR5050 - Turnbuckle (camber link, front/rear, 2pcs)
TKR5051 - Rod Ends (6.8mm, camber links, 8pcs)
TKR5052 - Pivot Balls (6.8mm, inside camber, steering links, 4pcs)
TKR5052A - Pivot Balls (6.8mm, inside camber, strng links, aluminum, 4pcs)
TKR5053 - Pivot Balls (6.8mm, flanged, outside camber, 4pcs)
TKR5053A - Pivot Balls (6.8mm, flanged, outside camber, aluminum, 4pcs)
TKR5054 - Spindle Bushings (4pcs)
TKR5054A - Spindle Bushings (4pcs, aluminum, hard ano)
TKR5055 - Arm Bushings (4pcs)
TKR5055A - Arm Bushings (4pcs, aluminum, hard ano)
TKR5056 - Rod Ends (5.8mm, brake/steering/sway bar linkage, 8pcs)
TKR5058 - Pivot Balls (5.8mm, no flange, brake/steering linkage, 4pcs)
TKR5058A - Pivot Balls (5.8mm, no flange, brake/strng link, aluminum, 4pcs)
TKR5060 - Steering Servo Brace (aluminum, gun metal ano)
TKR5060C - Steering Servo Brace (carbon fiber)
TKR5062 - Chassis Brace Set (front/rear/center)
TKR5065 - ESC Tray and Radio/Battery Tray Accessories
TKR5070 - Stub Axles (hardened steel, 2pcs)
TKR5071 - Wheel Hubs (17mm, aluminum, black ano, w/pins, 2pcs)
TKR5071X - Wheel Hubs (17mm, aluminum, lightened, gun metal ano, w/pins, 2pcs)
TKR5072 - Driveshafts (f/r, hardened steel, 2pcs)
TKR5073 - CV Rebuild kit (f/r, for 2 axles)
TKR5075 - Diff Coupler (f/r, hardened steel)
TKR5076 - Driveshaft (center, rear, hardened steel)
TKR5077 - Driveshaft (center, front, 7075 aluminum, gun metal ano)
TKR5078 - Driveshaft (center, front, hardened steel)
TKR5079 - Stabilizer Balls (6.8mm, sway bars, 4pcs)
TKR5079A - Stabilizer Balls (6.8mm, sway bars, aluminum, 4pcs)
TKR5080 - Sway Bar (f/r, 2.2mm)
TKR5081 - Sway Bar (f/r, 2.3mm)
TKR5082 - Sway Bar (f/r, 2.4mm)
TKR5083 - Sway Bar (f/r, 2.5mm)
TKR5084 - Sway Bar (f/r, 2.6mm)
TKR5085 - Sway Bar (f/r, 2.8mm)
TKR5086 - Sway Bar Mounts
TKR5087 - Sway Bar (f/r, 3.0mm)
TKR5100 - Ackerman Plate (aluminum, gun metal ano)
TKR5102 - Steering Posts (steel)
TKR5102A - Steering Posts (aluminum, gun metal ano)
TKR5103 - Servo Saver Post (aluminum, gun metal ano)
TKR5104 - Steering Bell Cranks
TKR5107 - Steering Top Plate, Center Diff Top Plate, Center Diff Rear Support
TKR5116 - Wheel Nuts (17mm, serrated, gun metal ano, M12x1.0, 4pcs)
TKR5122 - Steering Rack Bushings (aluminum, gun metal ano, 2pcs)
TKR5123 - Turnbuckle (steering links, 2pcs)
TKR5125 - O-Ring (ESC tray, 3pcs)
TKR5126 - Antenna tube (universal, w/ caps, 5pcs)
TKR5210 - Center Diff Motor Mount (aluminum, gun metal ano)
TKR5211 - Motor Mount Insert (aluminum, gun metal ano)
TKR5217 - Center Diff Rear Support (aluminum, gun metal ano)
TKR5220 - Servo Horns (steering, brakes)
TKR5230 - Steering linkage (M3x18mm threaded rod, 10pcs)
TKR5231 - Servo Saver Nut and Spring
TKR5237 - Spur Gear (44t, composite)
TKR5240 - Adjustable Hinge Pin Braces (front and rear, composite)
TKR5245 - Body (.040 lexan, EB48)
TKR5246 - Instruction Manual (EB48)
TKR5247 - Decal Sheet (EB48)
TKR5110 - Diff Pinion (10T, CNC)
TKR5111 - Differential Ring Gear (40t)

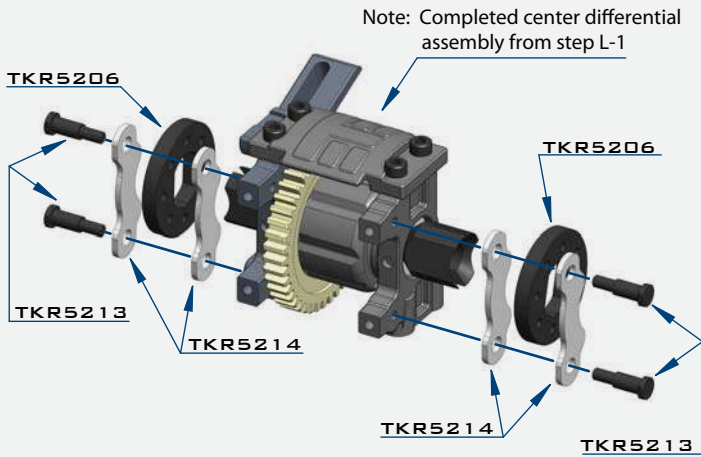
TKR5112 - Differential Outdrives (center)
TKR5112X - Differential Outdrives (center, lightened)
TKR5113 - Differential Case (f/c/r)
TKR5114 - Differential Outdrives (f/r)
TKR5114X - Differential Outdrives (f/r, lightened)
TKR5115 - Spur Gear (44t, hardened steel, lightened)
TKR5140 - Differential Gear Set (internal gears only)
TKR5141 - Differential Cross Pins (6pcs)
TKR5143 - Differential Seals (3pcs)
TKR5144 - Differential O-Rings (6pcs)
TKR5145 - Differential Shims (6x17mm, 6pcs)
TKR5147 - Complete Center Differential
TKR5148 - Complete F/R Differential
TKR5206 - Brake discs (fiberglass, 2pcs)
TKR5208 - Brake Levers, Brake Cam Stays (w/ pins)
TKR5213 - Brake Posts (steel, 4pcs)
TKR5213A - Brake Posts (aluminum, 4pcs)
TKR5214 - Brake Pads (steel, 4pcs)
TKR5215 - Brake Cams (steel, 2pcs)
TKR5219 - Brake Linkage Ball Lever (steel)
TKR5222 - Brake Linkage
TKR5067 - Brake Servo Brace (aluminum, gun metal ano)
TKR5067C - Brake Servo Brace (carbon fiber)
TKR5057 - Turnbuckle (brake bias adjustment)
TKR5206X - Brake Kit (complete)
TKR6002 - Shock Body (front, aluminum, hard ano, 2pcs)
TKR6003 - Shock Caps (aluminum, black ano, 2pcs)
TKR6004 - Shock Shafts (front, steel, 2pcs)
TKR6004T - Shock Shafts w/ TiNi coating (front, steel, 2pcs)
TKR6005 - Shock Rod Ends and Spring Perches (6.8mm, shock ends, 4pcs)
TKR6008 - Shock Shaft Guide, Piston, and Bushing Set (for 2 shocks)
TKR6009 - Shock O-Ring and Bladder Set (for 2 shocks)
TKR6013 - Shock Adjustment Nuts (aluminum, gun metal ano, 2pcs)
TKR6015 - Shock Cartridge Caps (aluminum, gun metal ano, 2pcs)
TKR6016 - Shock Body (rear, aluminum, hard ano, 2pcs)
TKR6017 - Shock Shafts (rear, steel, 2pcs)
TKR6017T - Shock Shafts w/ TiNi coating (rear, steel, 2pcs)
TKR6018 - Shock Cap and Spring Adjuster Set (composite, for 2 shocks)
TKR6021 - Shock Set (front, complete)
TKR6022 - Shock Set (rear, complete)
TKR6023 - Shock Boot Set (2 front, 2 rear)
TKR6030 - Shock Spring Set (rear, 1.4 x 11.0T, 85mm)
TKR6031 - Shock Spring Set (rear, 1.4 x 10.5T, 85mm)
TKR6032 - Shock Spring Set (rear, 1.4 x 10.0T, 85mm)
TKR6033 - Shock Spring Set (rear, 1.4 x 9.5T, 85mm)
TKR6034 - Shock Spring Set (rear, 1.4 x 9.0T, 85mm)
TKR6035 - Shock Spring Set (front, 1.5 x 9.0T, 70mm)
TKR6036 - Shock Spring Set (front, 1.5 x 8.5T, 70mm)
TKR6037 - Shock Spring Set (front, 1.5 x 8.0T, 70mm)
TKR6038 - Shock Spring Set (front, 1.5 x 7.5T, 70mm)
TKR6039 - Shock Spring Set (front, 1.5 x 7.0T, 70mm)
TKRBB050825 - Ball Bearing (5x8x2.5mm, 4pcs)
TKRBB05114 - Ball Bearing (5x11x4, 4pcs)
TKRBB06103 - Ball Bearing (6x10x3, 4pcs)
TKRBB08144 - Ball Bearing (8x14x4, 4pcs)
TKRBB08165 - Ball Bearing (8x16x5, 4pcs)
TKRBB13194 - Ball Bearing (13x19x4, 4pcs)
TKR1200 - M2.5 Locknuts (zinc finish, 10pcs)
TKR1201 - M3 Locknuts (black, 10pcs)
TKR1202 - M4 Locknuts (black, 10pcs)
TKR1211 - M3 Locknuts (flanged, black, 10pcs)
TKR1221 - M3x8mm Washer (black, 10pcs)
TKR1222 - 13x16x.1mm Diff Shims (10pcs)
TKR1223 - Body Clips (10pcs)
TKR1226 - 5x7x.2mm shims (10pcs)
TKR1227 - M4x9mm Washer (zinc finish, 10pcs)
TKR1322 - M3x8mm Flat Head Screws (black, 10pcs)
TKR1323 - M3x10mm Flat Head Screws (black, 10pcs)
TKR1325 - M3x14mm Flat Head Screws (black, 10pcs)
TKR1327 - M3x16mm Flat Head Screws (black, 10pcs)
TKR1328 - M3x18mm Flat Head Screws (black, 10pcs)
TKR1333 - M3x40mm Flat Head Screws (black, 10pcs)
TKR1341 - M4x6mm Flat Head Screws (black, 10pcs)
TKR1343 - M4x10mm Flat Head Screws (black, 10pcs)
TKR1346 - M4x15mm Flat Head Screws (black, 10pcs)
TKR1401 - M3x6mm Button Head Screws (black, 10pcs)
TKR1402 - M3x8mm Button Head Screws (black, 10pcs)
TKR1443 - M4x10mm Button Head Screws (black, 10pcs)
TKR1445 - M4x14mm Button Head Screws (black, 10pcs)
TKR1447 - M4x16mm Button Head Srews (black, 10pcs)
TKR1448 - M4x18mm Button Head Screws (black, 10pcs)
TKR1522 - M3x8mm Cap Head Screws (black, 10pcs)
TKR1524 - M3x12mm Cap Head Screws (black, 10pcs)
TKR1525 - M3x14mm Cap Head Screws (black, 10pcs)
TKR1529 - M3x20mm Cap Head Screws (black, 10pcs)
TKR1601 - M3x4mm Set Screws (black, 10pcs)
TKR1603 - M5x4mm Set Screws (black, 10pcs)

BAG R

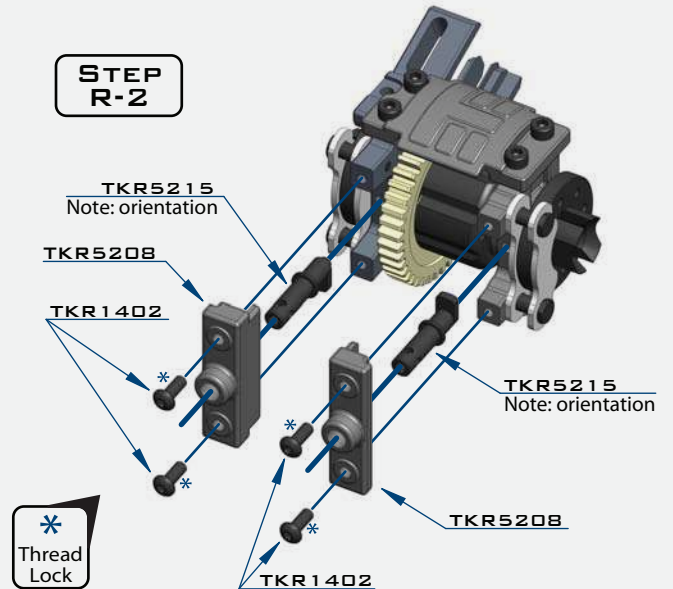
MECHANICAL BRAKES (OPTIONAL - TKR5206X)

A mechanical brake setup will allow you to adjust the front/rear brake bias as well as reduce the running temperature of your motor and ESC. Mechanical brakes can provide an advantage on tracks where traction is scarce, but it may suit your driving style in any case. These instructions assume that the center differential/motor mount is completed but not yet installed on your EB48 (Step L). If your vehicle is complete, you will need to remove the center differential/motor mount to complete the brake installation. Refer to Step L in the EB48 instruction manual if you need help.

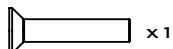
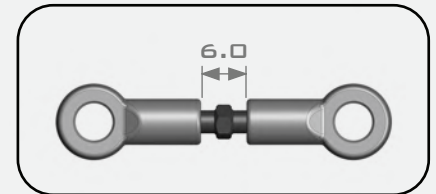
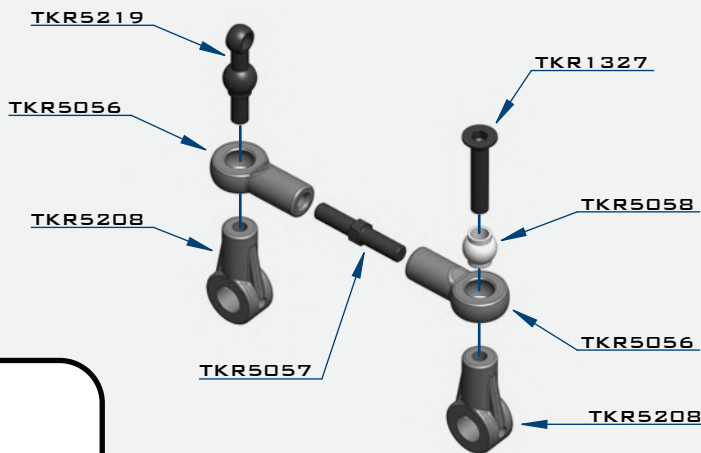
STEP R-1



STEP R-2



STEP R-3



TKR1327
M3X16MM FLAT HEAD SCREW



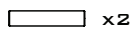
TKR1402
M3X8MM BUTTON HEAD SCREW



TKR1601
M3X4MM SET SCREW

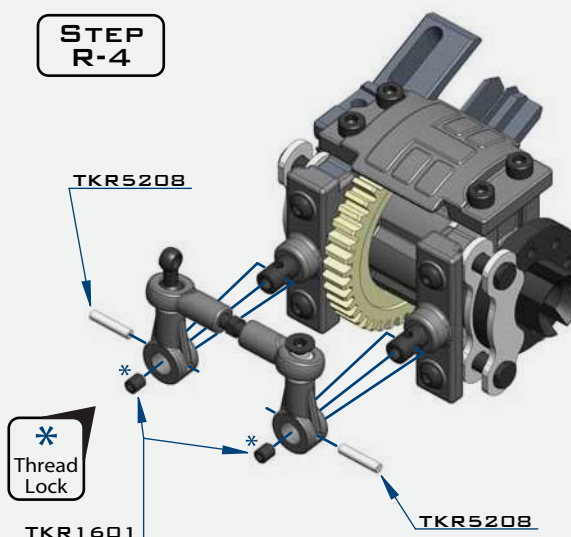


TKR5058
PIVOT BALL M3X5.8MM
NO FLANGE



TKR5208
CAM JOINT PIN

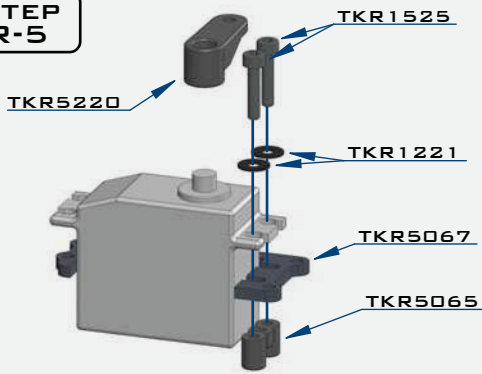
STEP R-4



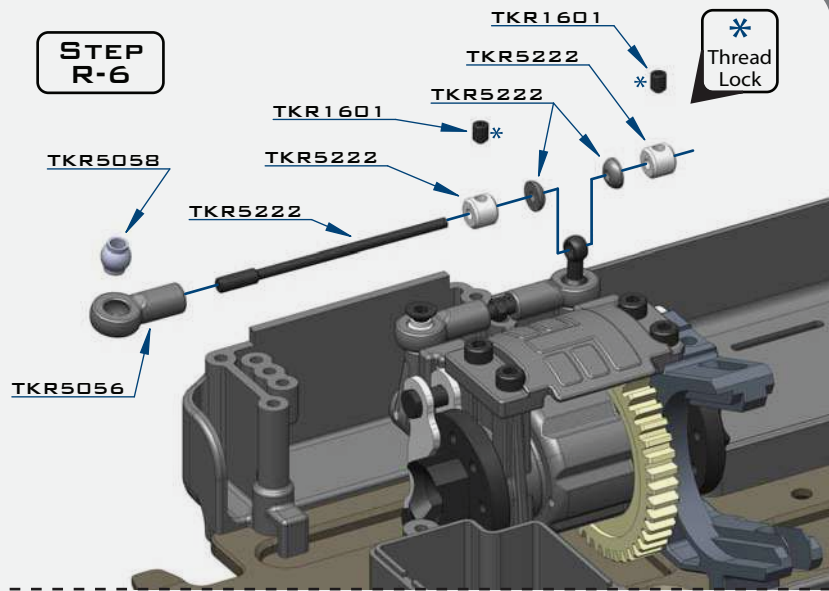
BAG R

MECHANICAL BRAKES (OPTIONAL - TKR5206X)

STEP
R-5



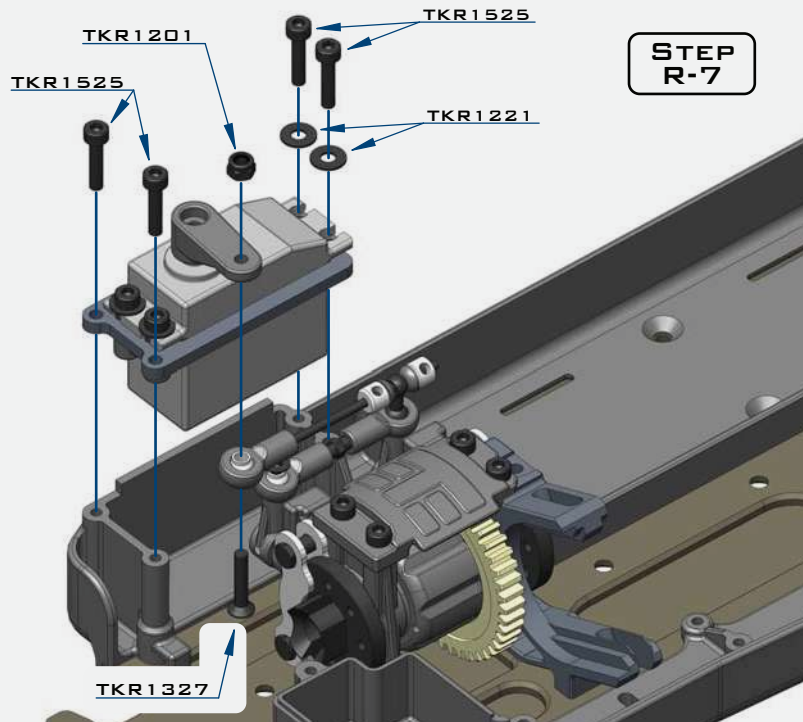
STEP
R-6



Radio Setup:

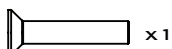
- You need a separate servo for the brakes. A servo with at least 160oz/in torque @ .15sec or faster is recommended.
- To set up the brake servo action, you will need a radio transmitter that has the ability to perform 3rd/AUX mixing on the throttle channel.
- Adjust the mixing function so the brake servo only moves when activating the brakes (moving the trigger forward on your transmitter). If the servo is also moving when on throttle, you will damage the brake system or your servo and the car will not function properly.
- Set the ESC brakes to 0 (zero). Although, you can still use the ESC for partial brakes or drag brake if desired.
- Refer to your transmitter manual for mixing functions specific to your brand.

STEP
R-7

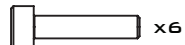


Adjusting the Brakes and Brake Bias:

- The total braking force is set by your transmitter via servo travel (EPA for 3rd/AUX/Brake channel)
- When your servo is in the neutral position, there should be no contact with the brakes. Use the ESC settings to adjust drag brake.
- Adjust the brake linkage stops (TKR5222) and servo EPA to set the brakes to your liking. Some prefer the brakes to come on very quick, while others prefer them to be a little more progressive.
- The brakes bias is adjusted by lengthening or shortening the brake adjustment turnbuckle (TKR5057). A longer link will provide more rear braking bias, a shorter link will provide more front braking bias.
- We recommend leaving the servo horn loose while adjusting the brake bias. This way you can test the brake bias, take the servo horn off to adjust, test, repeat if necessary. When you have the brake bias where you want it, tighten down the servo horn.



x1
TKR1327
M3x16MM FLAT HEAD SCREW



x6
TKR1525
M3x14MM CAP HEAD SCREW



x2
TKR1601
M3x4MM SET SCREW

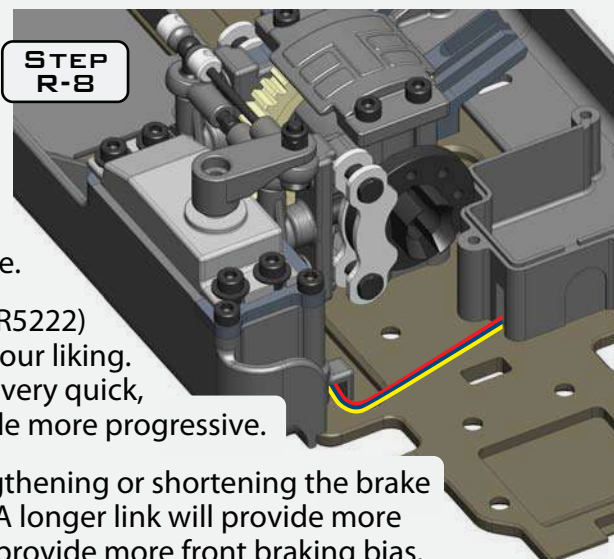


x1
TKR5058
PIVOT BALL M3x5.8MM
NO FLANGE



x1
TKR1201
M3 LOCKNUT BLACK

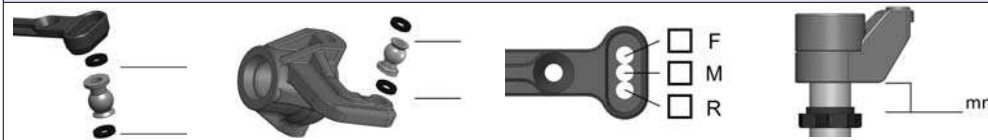
STEP
R-8



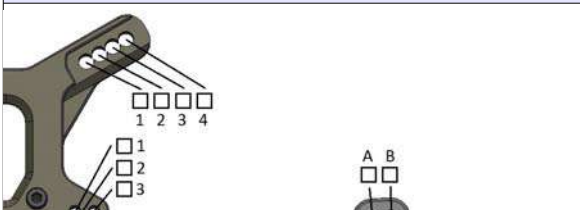
SETUP SHEET

Name:	Date:	Event:
Track Conditions:	Outdoor Open Loose/Loamy Dusty High Bite	Low Bite Rough
Indoor Tight Smooth Hard Packed Wet Dry Med Bite		Blue Groove

BUMPSTEER/ACKERMANN/SERVO SAVER SHOCKS

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;">Front</td> <td style="width: 50%;">Rear</td> </tr> <tr> <td>Piston</td> <td></td> <td></td> </tr> <tr> <td>Oil</td> <td></td> <td></td> </tr> </table>		Front	Rear	Piston			Oil		
	Front	Rear								
Piston										
Oil										

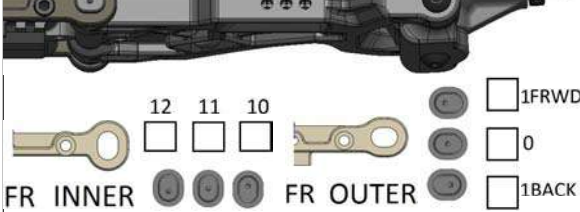
FRONT SUSPENSION

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;">Front</td> <td style="width: 50%;">Rear</td> </tr> </table>		Front	Rear	
	Front	Rear			
Ride Height					
Camber					
Toe					


TIRES

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;">Front</td> <td style="width: 50%;">Rear</td> </tr> </table>		Front	Rear	
	Front	Rear			
Brand					

WING

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>			
Brand:				
Type:				

REAR BRACES

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Front</td> <td><input type="checkbox"/> Middle</td> <td><input type="checkbox"/> Rear</td> </tr> </table> <p>(Front is always recommended)</p>	<input type="checkbox"/> Front	<input type="checkbox"/> Middle	<input type="checkbox"/> Rear
<input type="checkbox"/> Front	<input type="checkbox"/> Middle	<input type="checkbox"/> Rear		

WHEELBASE DIFFS

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 33%;">Front</td> <td style="width: 33%;">Center</td> <td style="width: 33%;">Rear</td> </tr> </table>		Front	Center	Rear
	Front	Center	Rear		

ELECTRONICS

ESC:
Battery:
Servo(s):
Radio:
Motor:

DRIVETRAIN

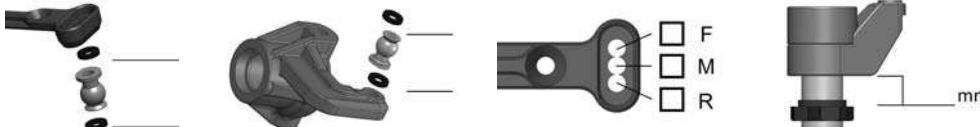
Gear Ratio: _____ / _____	Spur: <input type="checkbox"/> Metal <input type="checkbox"/> Plastic
<input type="checkbox"/> Pinion <input type="checkbox"/> Long Shank	Shoes:
<input type="checkbox"/> Traktion <input type="checkbox"/> Clutch	Springs:
<input type="checkbox"/> Mech. Brake <input type="checkbox"/> Motor Brake	Radio Notes:

NOTES:

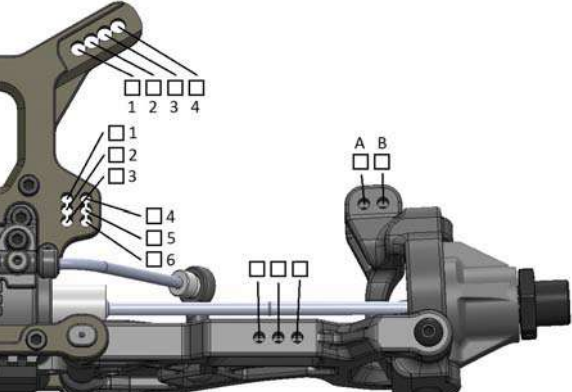
SETUP SHEET

Name:	Date:	Event:
Track Conditions:	Outdoor Open Loose/Loamy Dusty High Bite	Low Bite Rough
Indoor Tight Smooth Hard Packed Wet Dry Med Bite		Blue Groove

BUMPSTEER/ACKERMANN/SERVO SAVER SHOCKS

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;">Front</td> <td style="width: 50%;">Rear</td> </tr> <tr> <td>Piston</td> <td></td> <td></td> </tr> <tr> <td>Oil</td> <td></td> <td></td> </tr> </table>		Front	Rear	Piston			Oil		
	Front	Rear								
Piston										
Oil										

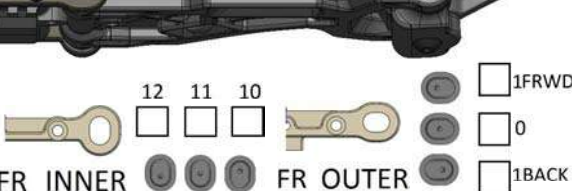
FRONT SUSPENSION

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;">Front</td> <td style="width: 50%;">Rear</td> </tr> <tr> <td>Ride Height</td> <td></td> <td></td> </tr> <tr> <td>Camber</td> <td></td> <td></td> </tr> <tr> <td>Toe</td> <td></td> <td></td> </tr> </table>		Front	Rear	Ride Height			Camber			Toe			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;">Front</td> <td style="width: 50%;">Rear</td> </tr> <tr> <td>Bladder</td> <td></td> <td></td> </tr> <tr> <td>Spring</td> <td></td> <td></td> </tr> <tr> <td>Length/ Droop</td> <td></td> <td></td> </tr> </table>		Front	Rear	Bladder			Spring			Length/ Droop		
	Front	Rear																								
Ride Height																										
Camber																										
Toe																										
	Front	Rear																								
Bladder																										
Spring																										
Length/ Droop																										

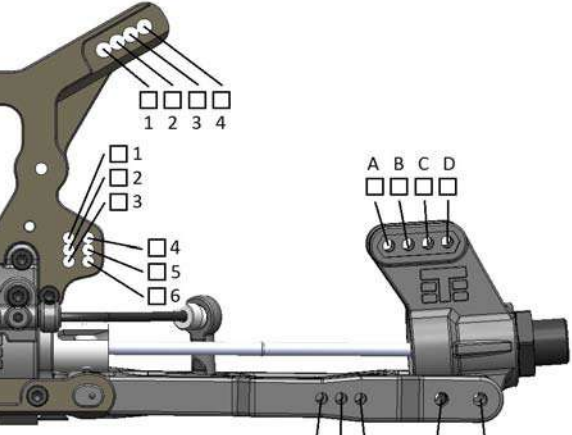
TIRES

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 50%;">Front</td> <td style="width: 50%;">Rear</td> </tr> <tr> <td>Brand</td> <td></td> <td></td> </tr> </table>		Front	Rear	Brand			
	Front	Rear						
Brand								

WING

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Brand:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Type:</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Brand:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Type:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Brand:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Type:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Compound</td> <td></td> <td></td> </tr> <tr> <td>Insert</td> <td></td> <td></td> </tr> <tr> <td>Wheel</td> <td></td> <td></td> </tr> </table>	Compound			Insert			Wheel		
Compound										
Insert										
Wheel										

REAR BRACES

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 33%;">Front</td> <td style="width: 33%;">Middle</td> <td style="width: 33%;">Rear</td> </tr> <tr> <td>Notes:</td> <td colspan="3"></td> </tr> </table>		Front	Middle	Rear	Notes:			
	Front	Middle	Rear						
Notes:									

WHEELBASE DIFFS

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="width: 33%;">Front</td> <td style="width: 33%;">Center</td> <td style="width: 33%;">Rear</td> </tr> <tr> <td>DIFFS</td> <td></td> <td></td> <td></td> </tr> </table>		Front	Center	Rear	DIFFS			
	Front	Center	Rear						
DIFFS									

ELECTRONICS

ESC:	
Battery:	
Servo(s):	
Radio:	
Motor:	

DRIVETRAIN

Gear Ratio: _____ / _____	Spur: <input type="checkbox"/> Metal <input type="checkbox"/> Plastic
<input type="checkbox"/> Pinion	<input type="checkbox"/> Long Shank
<input type="checkbox"/> Traktion	<input type="checkbox"/> Clutch
<input type="checkbox"/> Mech. Brake	Radio Notes:
<input type="checkbox"/> Motor Brake	

NOTES:

TEKNO 



Tekno RC
10755 Scripps Poway Pkwy #598
San Diego CA 92131
USA

www.teknorc.com