CEN

GENESIS 46

1/8th Scale Ready To Rock Monster Truck

CEN Racing brings together huge engine displacement with a massive chassis to bring you the largest, most powerful monster truck ever introduced to the world, The Genesis! This monster was designed to raise the bar when it comes to power, engine size, tires size, and even handling characteristics. By purchasing this truck you have chosen to be the biggest on the block, while others must move over or be driven over. The Genesis simply redefines the term "Monster Truck".

GENESIS Fast Facts

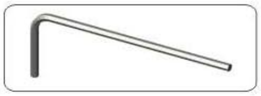
Length: 23.1in. (587mm)
Width: 18.4in. (467mm)
Wheelbase: 15.63in. (397mm)
Weight: 17 lbs,(272 oz, 7.7kg)
Ground Clearance: 4 in. (111.8mm)
Suspension Travel:
4.4inch & 5 inch (w/o Top shocks)
Tire Size: 7.5in. (190.5mm)
Wheel Size: 5.2in. (132.1mm)
Fuel Tank Capacity: 220cc

9501 RTR Version
9502 ARR Version
(w/o Radio & SafeGuard)

G00105001
20040801

Tools

The following tools are necessary to make assembly & maintenance of your new R/C car. both easier & more enjoyable. For your safty, exercise care when using any hand tools, sharp instruments, or power tools during construction. Always use safty glasses. If you have any questions, please consult your local hobby shop or experienced friend.



Hexagon wrench (kit tools supplied)
1.5mm, 2mm, 2.5mm,3mm.

Cross wrench (hexagon socket tools)
5.5mm, 7mm, 8mm, 10mm, 12mm, 17mm.

Hobby scissors
For cutting and trimming the car's body, decals.

Grease
Lubrication of gears; reduces friction.

Glue
Use to glue tires onto the wheels; temporary repairs.

! Always use hand and eye protection with cyanoacrylic glue.

Threadlock
For locking screws and nuts to prevent loosening.

Hobby knife
Use for trimming and cutting.

! This knife cuts plastic and fingers with equal ease, so be careful

Flat blade screwdriver

Phillips screwdriver

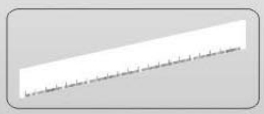
Needle nose pliers
Clamping parts during assembling and disassembling

Hand drill
2mm, 3mm, 6mm.

Soldering iron (40~50 watts) and a small amount of solder.

! Be careful iron is very hot

Liquid dish soap

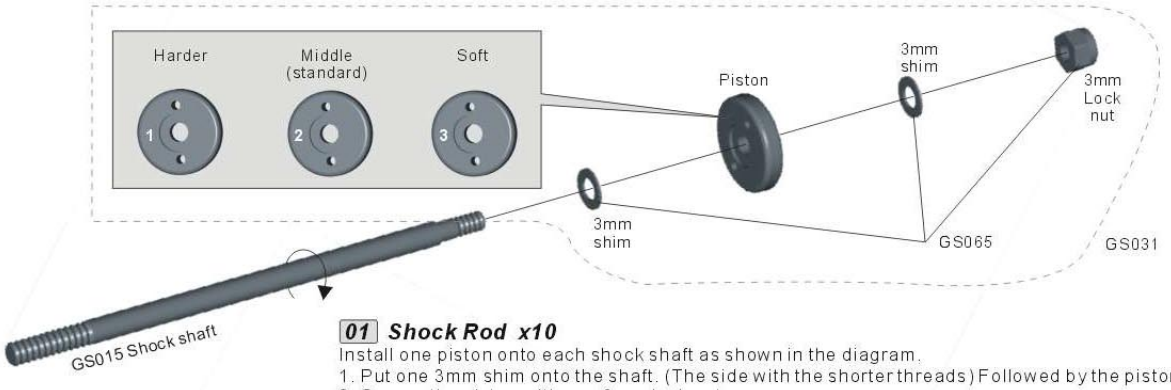


Ruler

SAFETY PRECAUTIONS

- This radio controlled model is not a toy. For yours and others safty, the following guidelines and cautions should be followed carefully.
  WARNING: Do not operate R/C car in the following locations:
  1. Street
  2. Crowded area; keep away from children.
  3. Indoors or an unventilated room.
  SUGGESTION: Outside in a large open area without obstructions; R/C race track.
- This kit uses many kinds of small parts, sharp tools, large polybag, and chemical materials. Please keep these and other potentially harmful items away from children.
- Use only FCC approved ground frequency crystals in the R/C unit.
- Do not operate a Gas powered car in a residential area. The noise could disturb the peace.
- If you are operating several cars together, check the frequencies to make sure none are the same. Operating the cars on the same frequency can cause radio interference and loss of control of the car.
- If the car is not operating properly, stop immediately and check the condition of the car.
- To avoid damage to the R/C equipment, or losing control of the car, avoid running in or near water.
- To always maintain control of your car and to avoid a jump start, Please do the following:
  1. ON - First turn on the transmitter, then the car's receiver. 2. OFF - Turn off the car's receiver, then the transmitter.
- Do not touch the R/C car after operation, as the engine, muffler, electric motor, battery, and speed controller will be very hot! Allow to cool before handling. While charging your car's battery, it could become hot. Carefully read your battery charger's instructions for proper use.
- When the R/C car is in operation, do not touch any of its moving parts such as drive shafts, wheel ,etc., as the rotating parts can cause serious injury.
- After operation of the R/C car, it is necessary to remove the battery for protection of the R/C equipment.
- Paint and grease are extremely flamable, keep away from sources of ignition. Do not puncture or throw away spray paint cans into garbage.

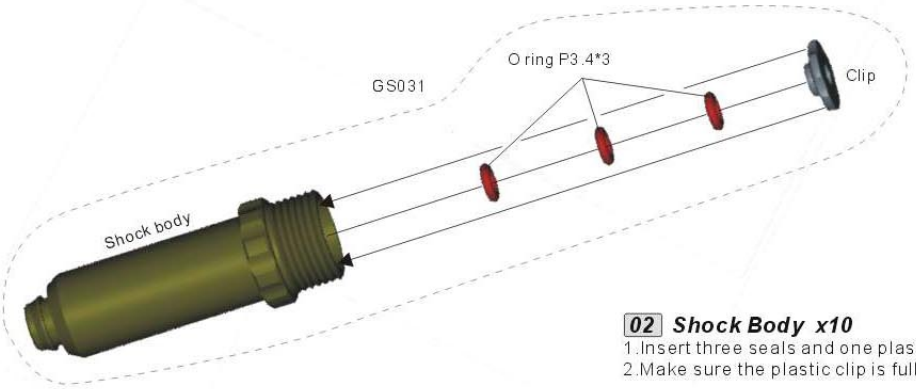
Shock Assembly

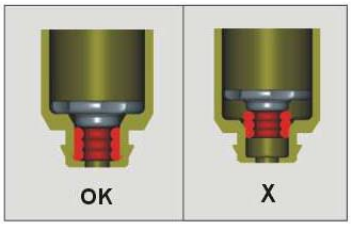


01 Shock Rod x10

Install one piston onto each shock shaft as shown in the diagram.
1. Put one 3mm shim onto the shaft. (The side with the shorter threads) Followed by the piston then the last 3mm shim.
2. Secure the piston with one 3mm lock nut.

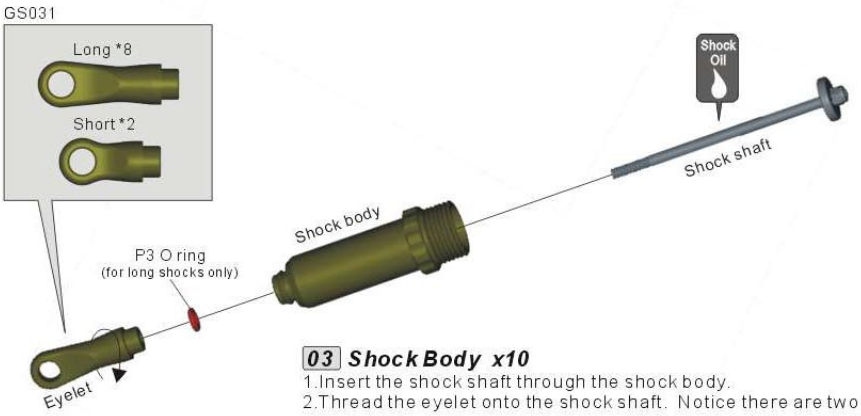
"Racer Tip" Thread the nut on with the nylon side first. This will help it stay in place.

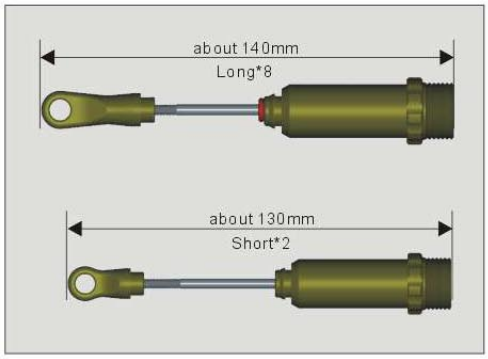




02 Shock Body x10

1.Insert three seals and one plastic clip into each shock body as shown in the diagram.
2.Make sure the plastic clip is fully seated in the shock body, refer to the diagram.

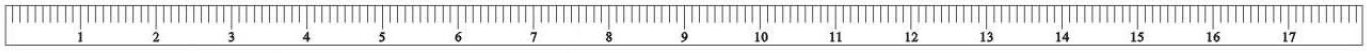


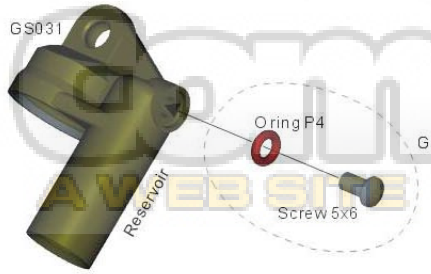


03 Shock Body x10

1.Insert the shock shaft through the shock body.
2.Thread the eyelet onto the shock shaft. Notice there are two sizes of eyelets.

"Racer Tip" Make sure you screw the eyelets on equally. Compare the long shafts with each other and adjust eyelet if needed to make them all the same length. Repeat for the short shafts.

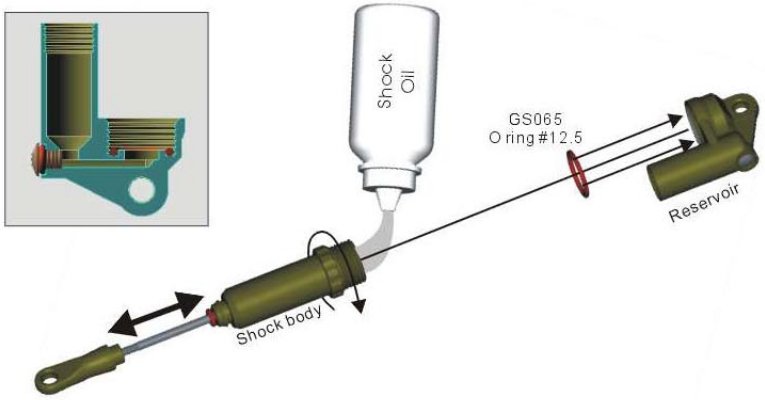




04 Reservoir x10

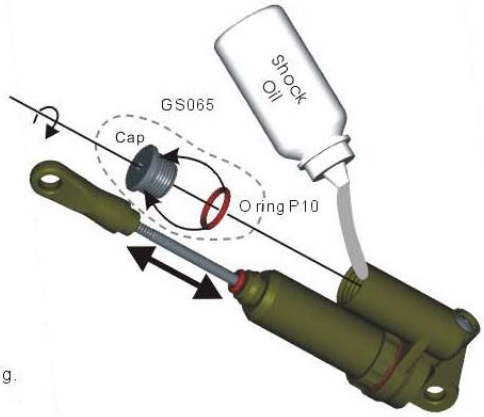
1.First close off the bleeder valve with one P4 "O" ring and 5x6 button head screw.
2.Repeat for each reservoir.

Shock Assembly



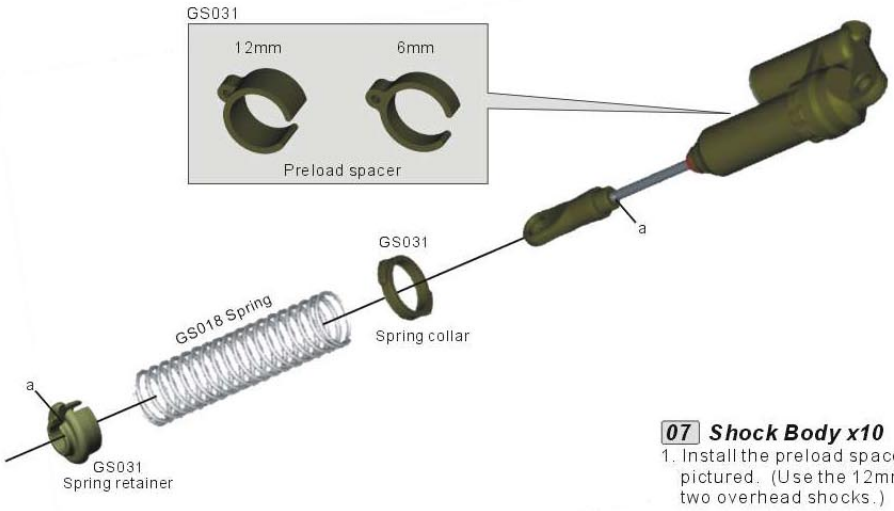
05 Shock Body x10

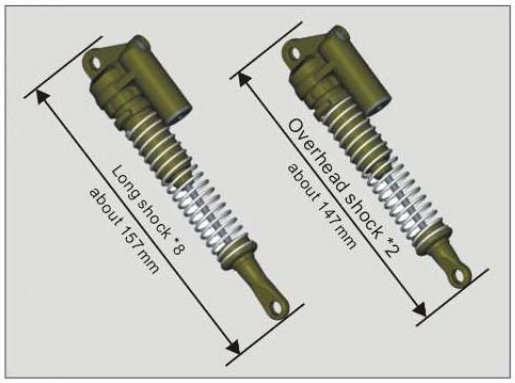
1. Insert one #12.5 "O" ring into each reservoir. Make sure the "O" ring is completely seated as shown in the diagram.
2. Fill the shock body with shock oil. Slowly move the shock shaft up and down until you get all the air bubbles out of the oil. Refill the shock to the top with oil if needed.
3. Screw the reservoir onto the shock body and tighten down.



06 Shock Body x10

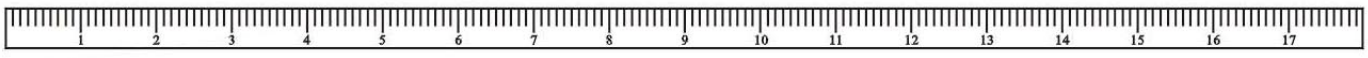
1. Now you need to fill the reservoir with oil. Fill the reservoir up to the bottom of the threads. Now slowly move the shaft up and down to get any extra air bubbles out.
2. Refill to the bottom of the threads if needed and insert the cap with the "O" ring. Tighten down then loosen 1 full turn. Slowly push the shock shaft all the way in and while holding the shaft in tighten down the cap.
3. Check your work, the shaft should go all the way into the shock body. If it doesn't you may need to bleed the shock slightly more. Shock action should be smooth without binding.
4. Repeat for each shock.



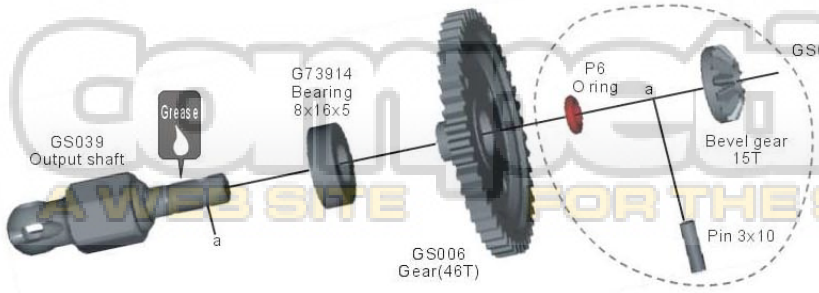


07 Shock Body x10

1. Install the preload spacers, spring collar, spring, followed by the spring retainer as pictured. (Use the 12mm spacer for the 8 long shocks and the 6mm spacer for the two overhead shocks.)



Transmission Assembly



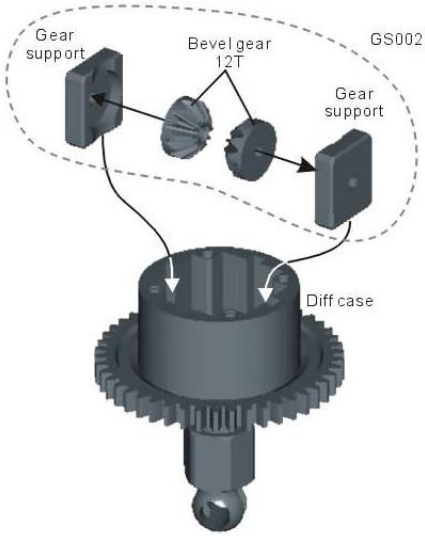
08 Center Diff

1. Slide one G73914 8x16x5 bearing onto the GS006 gear.
2. Insert output shaft into the gear as shown. Next slide one P6 "O" ring onto to the output shaft, on the inside of the gear.
3. Insert one 3x10 pin through the pinhole on the output shaft followed by the 15T bevel gear.

Transmission Assembly

09 Center Diff

1. Attach the GS006 gear to the GS001 diff case using four 3x10 flat head screws and gasket. Pay close attention to centering the gasket properly.
2. Make sure screw are tight

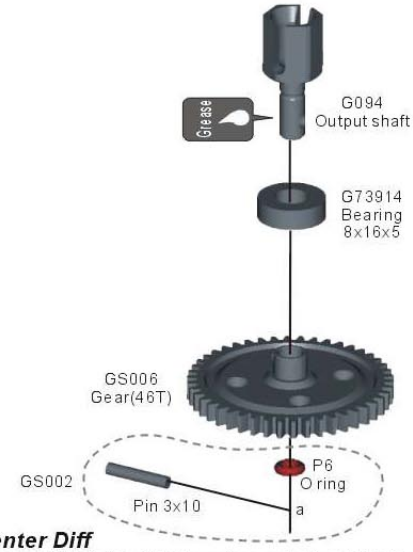


10 Center Diff

1. Install two 12T bevel gears and the two square gear supports into the diff case.

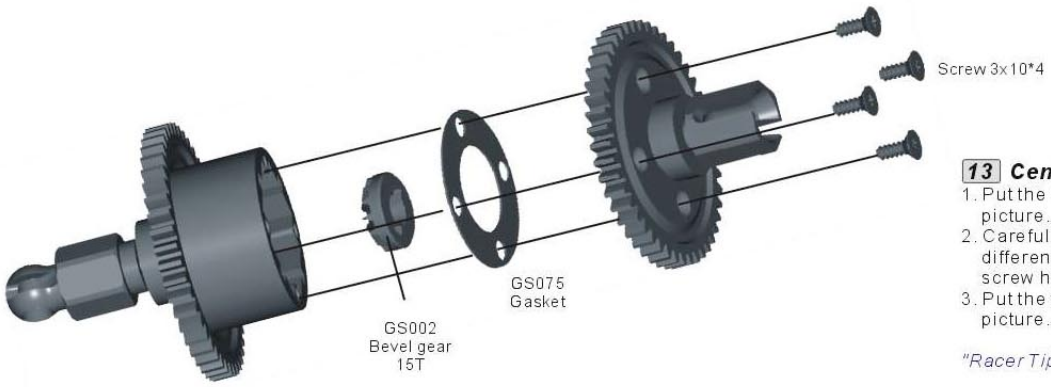
11 Center Diff

1. Fill the differential case just above the gears with differential grease.



12 Center Diff

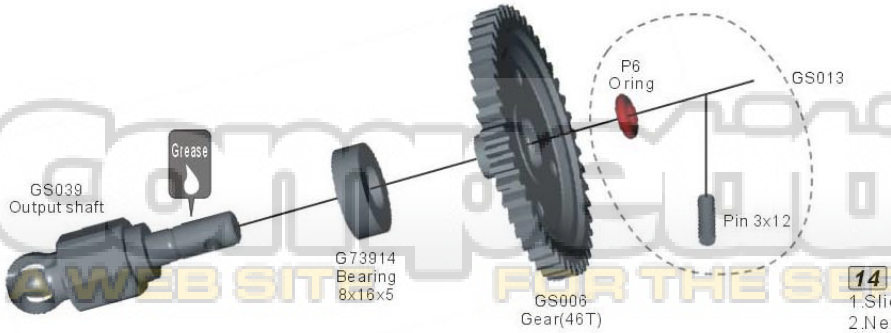
1. Insert one G73914 8x16x5 bearing onto the GS006 gear.
2. Slide the output shaft GS094 through the GS006 46T gear.
3. Slide one P6 "O" ring onto the output shaft followed by a 3x10 pin.



13 Center Diff

1. Put the 15T bevel gear together as shown in the picture.
2. Carefully center the GS075 gasket onto the differential case. Make sure you line up the screw holes accurately.
3. Put the two halves together as shown in the picture. Secure with four 3x10 screws.

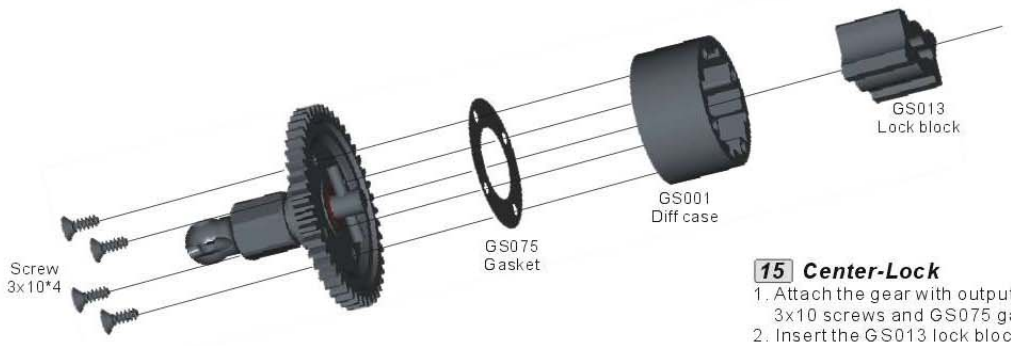
"Racer Tip" Tighten down the four screws evenly making sure they are all equally snug.



14 Center Lock

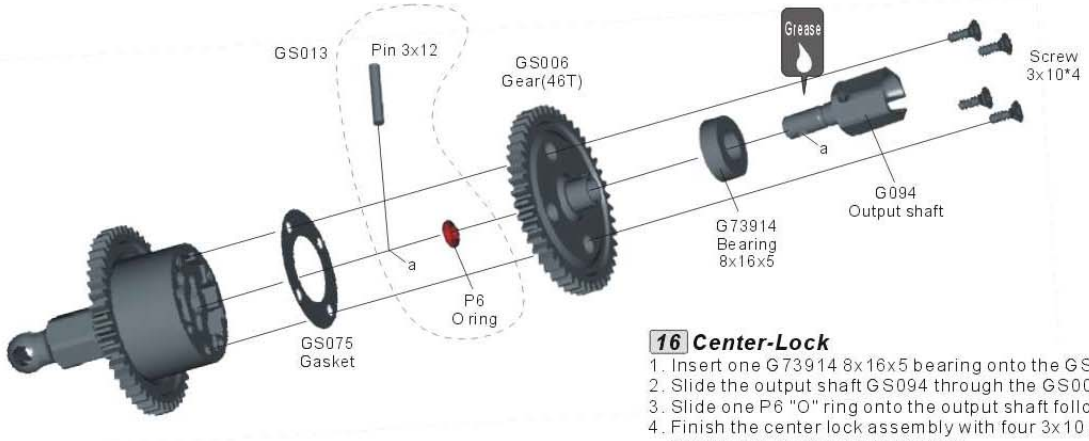
1. Slide one G73914 3x16x5 bearings onto the GS006 gear.
2. Next slide the output shaft into the gear as shown.
3. Slide on "O" ring followed by the 3x12 pin.

Transmission Assembly



15 Center-Lock

1. Attach the gear with output shaft to the GS001 differential case using four 3x10 screws and GS075 gasket.
2. Insert the GS013 lock block into the case lining up the pin on the slot.

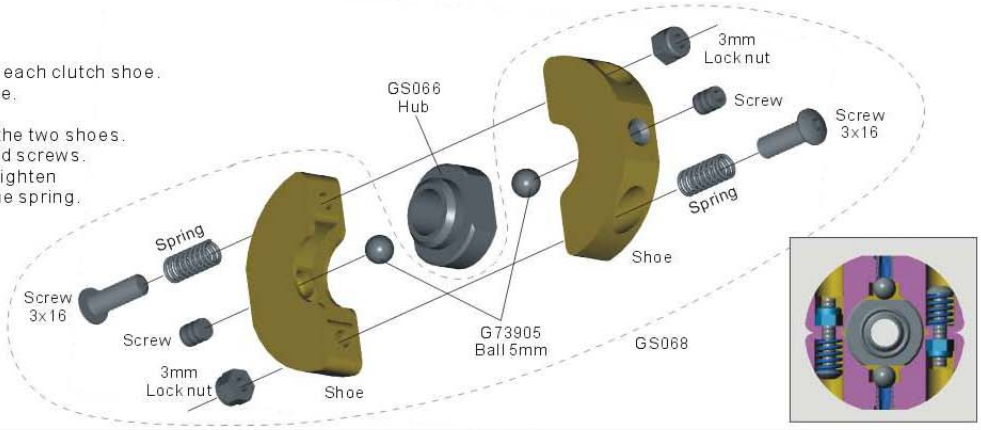


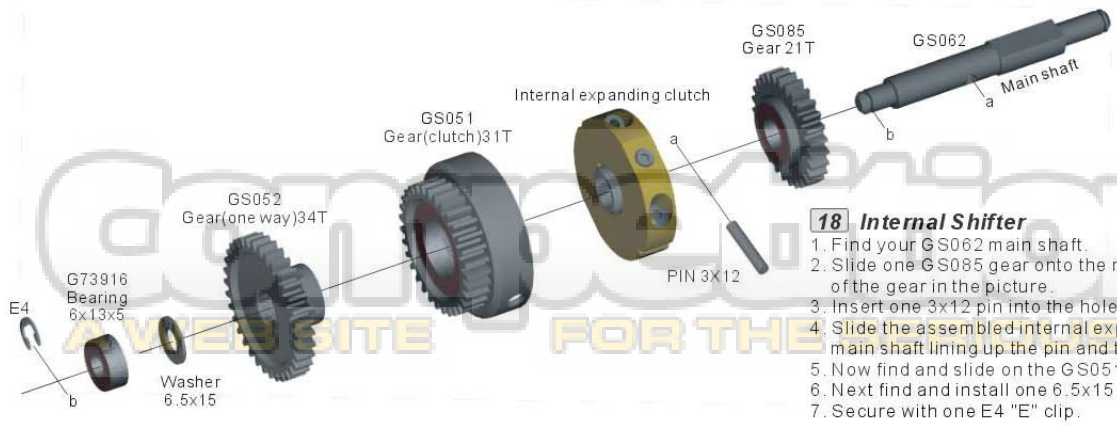
16 Center-Lock

1. Insert one G73914 8x16x5 bearing onto the GS006 gear.
2. Slide the output shaft GS094 through the GS006 46T gear.
3. Slide one P6 "O" ring onto the output shaft followed by a 3x12 pin.
4. Finish the center lock assembly with four 3x10 screws. Make sure you line the pin up with the lock block.

17 Internal Expanding Clutch

1. Assemble the clutch as shown in the diagram.
2. Start by threading one setscrew into the center of each clutch shoe.
3. Next insert one 3mm lock nut into each clutch shoe.
4. Place one 5mm ball into the center of each shoe.
5. Next place the GS066 shift hub into the center of the two shoes.
6. Slide one spring onto each of the 3x16 button head screws.
7. Thread the 3x16 screws into the 3mm locknuts. Tighten then down all the way being careful not to crush the spring. Then loosen each screw 7 1/2 turns.
8. Next adjust the setscrews so the ball just hit the internal hub. Watch for the shoe to lift slightly then back off slightly. Repeat on the other shoe.
9. Your clutch is now complete.

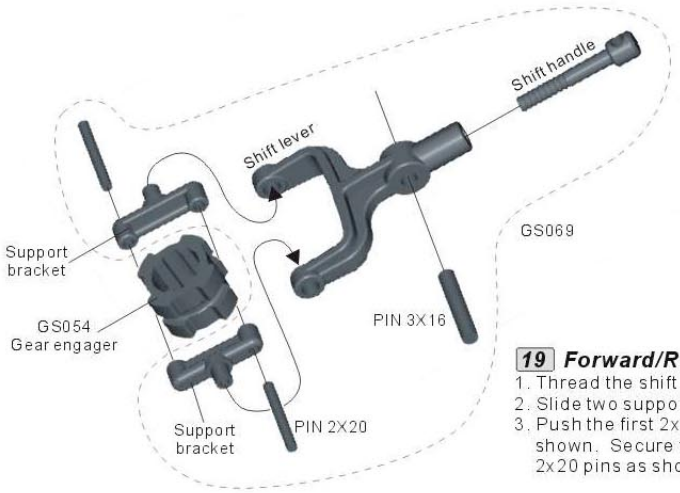




18 Internal Shifter

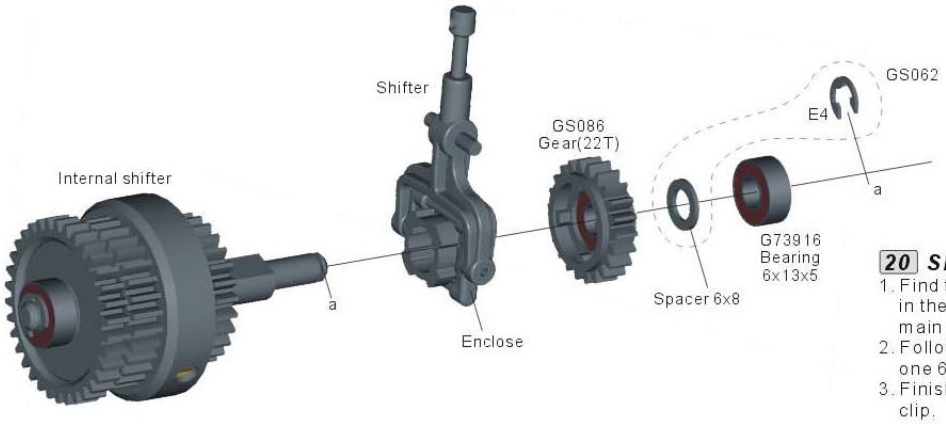
1. Find your GS062 main shaft.
2. Slide one GS085 gear onto the main shaft. * Notice the direction of the gear in the picture.
3. Insert one 3x12 pin into the hole mark "a".
4. Slide the assembled internal expanding clutch assembly onto the main shaft lining up the pin and the slot.
5. Now find and slide on the GS051 gear, followed by the GS052 gear.
6. Next find and install one 6.5x15 washer and one 6x13x5 bearing.
7. Secure with one E4 "E" clip.

Transmission Assembly



19 Forward/Reverse Shifter

1. Thread the shift handle into the shift lever.
2. Slide two support bracket onto the shift lever
3. Push the first 2x20 pin into the support bracket as shown. Secure the gear engager with the second 2x20 pins as shown in the diagram.

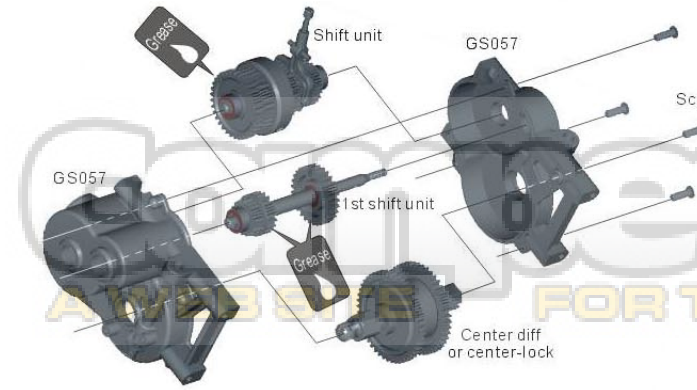


20 Shift Unit

1. Find the internal shift gear assembly that was completed in the last section. Slide the shift assembly onto the main shaft as shown in the diagram.
2. Following the shifter, install the GS086 gear followed by one 6x8 spacer.
3. Finish this step with one 6x13x5 bearing and one E4 "E" clip.

21 1st Shift Unit

1. 1st shift unit is assembled as pictured. Make sure the 2.6x12 pin is lined up with the slot on the side of the GS050 twin gear.
2. Slide on the 6x13x5 bearing and then secure with one E4 "E" clip.
3. Following the aluminum tube ,slide the GS053 gear followed by one 6x8 spacer and one 6x13x5 bearing

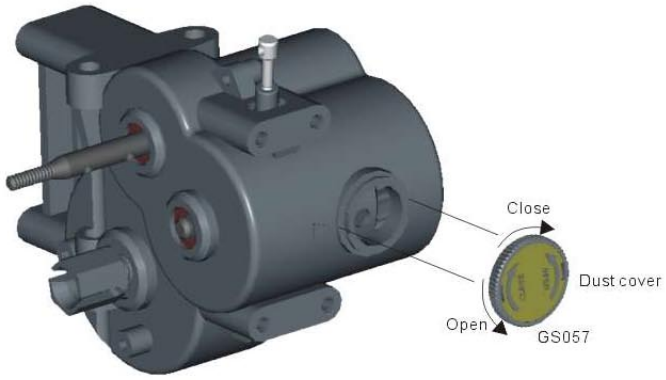


22 Center Transmission

1. Assemble the transmission as shown in the picture.
2. Lightly coat the gears with grease.
3. Secure both halves with four 3x10 button head screws.

"Racer Tip" The truck comes assembled with the Center-Lock installed. For racing, install the center differential that came with the truck. This will greatly improve handling and eliminate wheelies.

Transmission Assembly

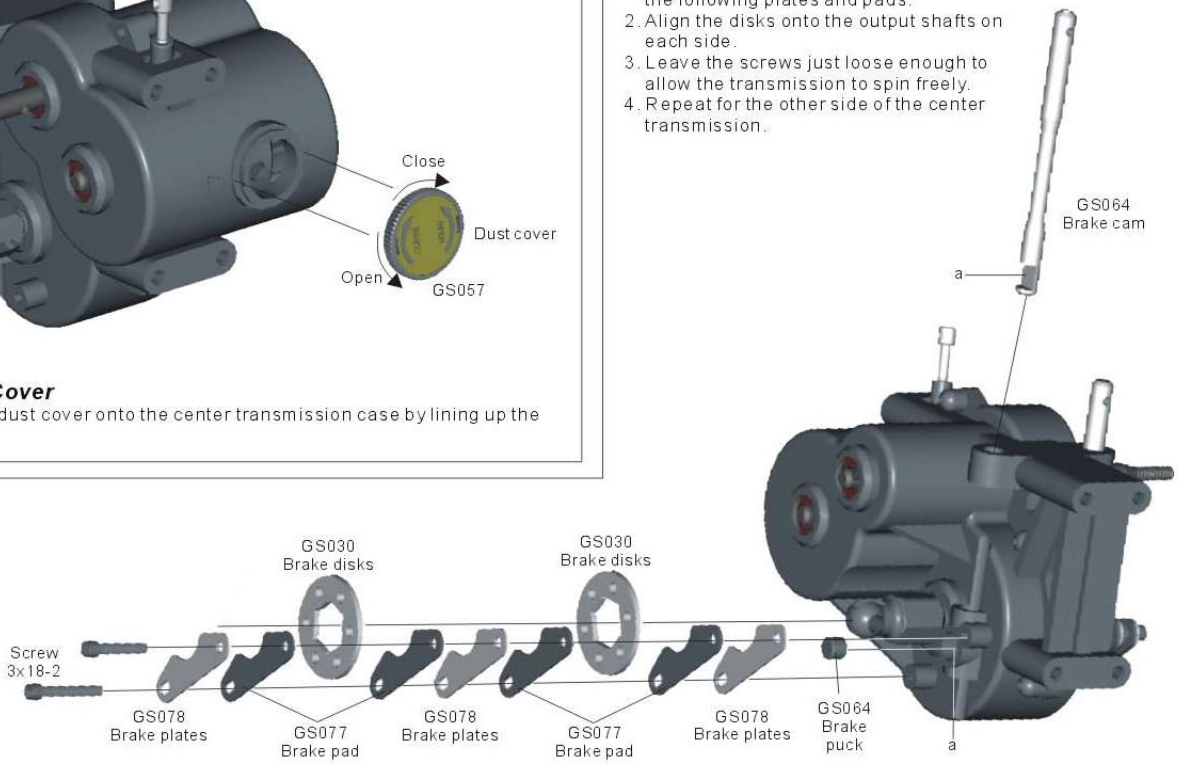


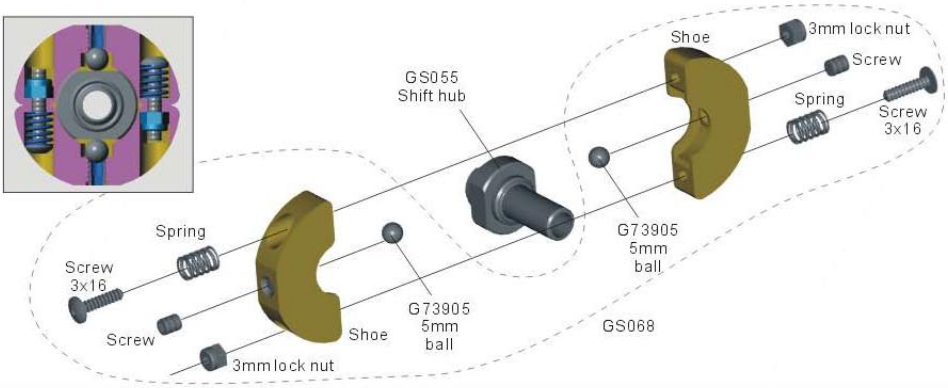
23 Dust Cover

1. Install the dust cover onto the center transmission case by lining up the notches.

24 Disk Brakes

1. Secure the brake disks, pads and plates in the order show in the picture. Make sure you put the brake cam in first followed by the brake puck then the following plates and pads.
2. Align the disks onto the output shafts on each side.
3. Leave the screws just loose enough to allow the transmission to spin freely.
4. Repeat for the other side of the center transmission.



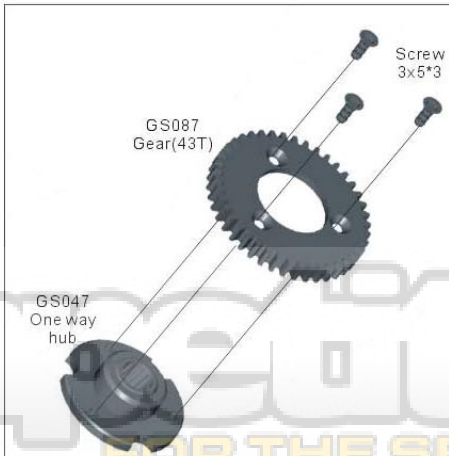


25 External Expanding Clutch

1. Assemble the clutch as shown in the diagram.
2. Start by threading in one setscrew into the center of each clutch shoe.
3. Next insert one 3mm lock nut into each clutch shoe.
4. Place one 5mm ball into the center of each shoe.
5. Next place the GS055 shift hub into the center of the two shoes.
6. Slide one spring onto each of the 3x16 button head screws.
7. Thread the 3x16 screws into the 3mm locknuts. Tighten then down all the way being careful not to crush the spring. Then loosen each screw 7 1/2 turns.
8. Next adjust the setscrews so the ball just hit the internal hub. Watch for the shoe to lift slightly then back off slightly. Repeat on the other shoe.
9. Your clutch is now complete.

26 External Clutch Gear

1. Insert one G73914 8x16x5 bearing into the GS056 hub.
2. Attach the spur gear to the GS056 hub using three 3x5 screws.



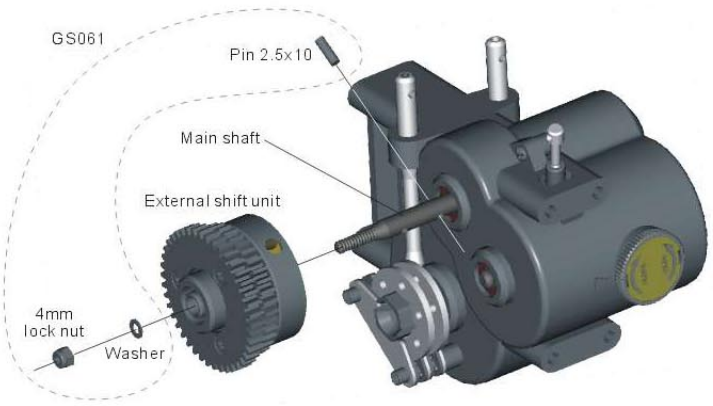
27 External One Way Gear

1. Attach the spur gear to the GS047 one-way hub using three 3x5 screws.

28 External Shift Unit

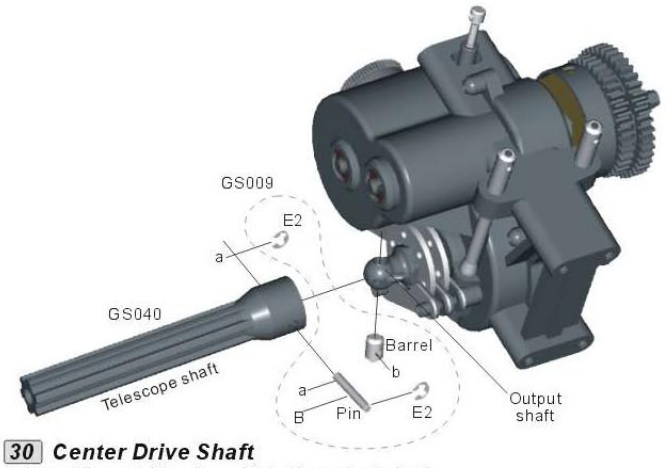
1. Slide the clutch gear onto the external expanding clutch followed by the one-way gear hub.

Transmission Assembly



29 ***Center Drive***

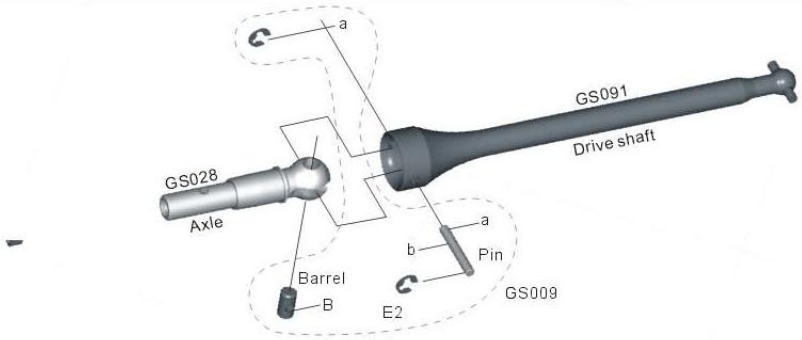
1. Slide the assembled two-speed onto the main shaft and secure with one lock nut and washer.



30 ***Center Drive Shaft***

1. Insert the outdrive barrel into the output shaft.
2. Next, line up the hole in the telescope shaft with the hole in the barrel.
3. Secure the pin with two E2 "E" clips

Suspension Assembly



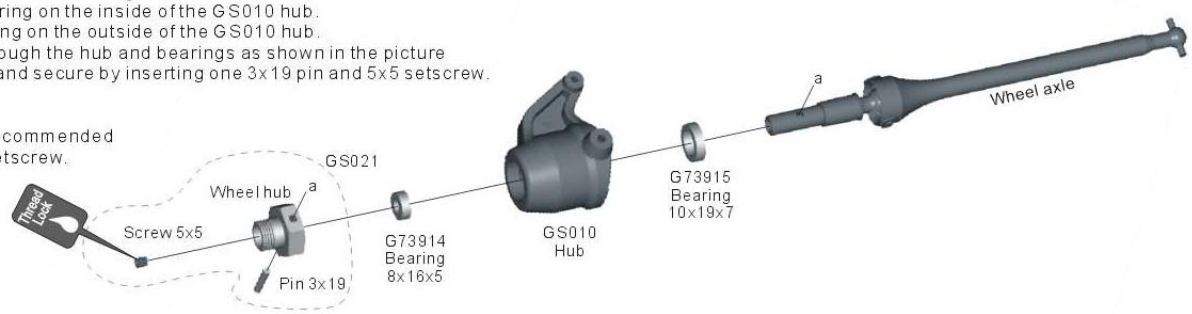
31 ***Drive Shaft Assembly x4***

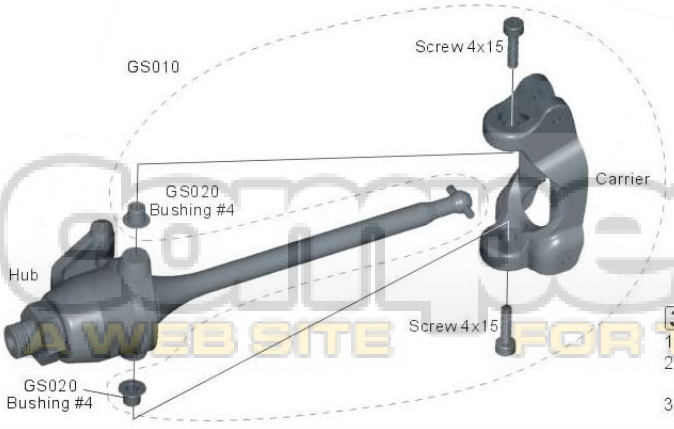
1. Insert one barrel into the axle as shown.
2. Align the pin hole on the drive shaft and barrel.
3. Push pin through and secure with two E2 "E" clips
4. Repeat three more times.

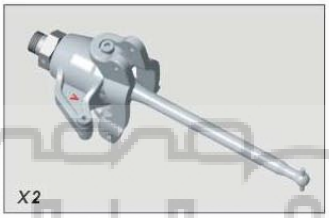
32 ***Hub and Driveshaft Assembly x4***

1. Insert one 10x19x5 bearing on the inside of the GS010 hub.
2. Insert one 8x16x5 bearing on the outside of the GS010 hub.
3. Slide the wheel axle through the hub and bearings as shown in the picture
4. Slide on the wheel hub and secure by inserting one 3x19 pin and 5x5 setscrew.
5. Repeat for each hub.

"Racer Tip" Thread lock recommended on the 5x5 setscrew.



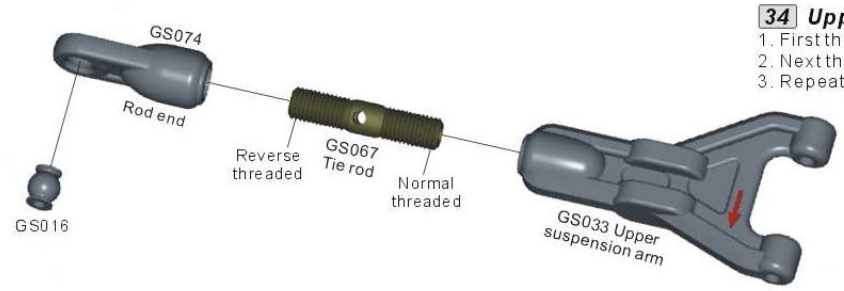




33 ***Hub and Spindle Assembly x4***

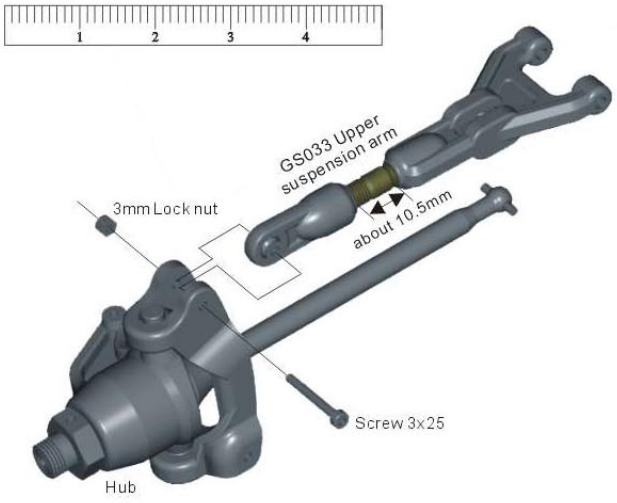
1. Put two #4 pivot bushings into the carrier as shown in the diagram.
2. Line up the spindle pivot bushings and the hub, and tighten down two 4x15 cap head screws.
3. Repeat for each hub.

Suspension Assembly



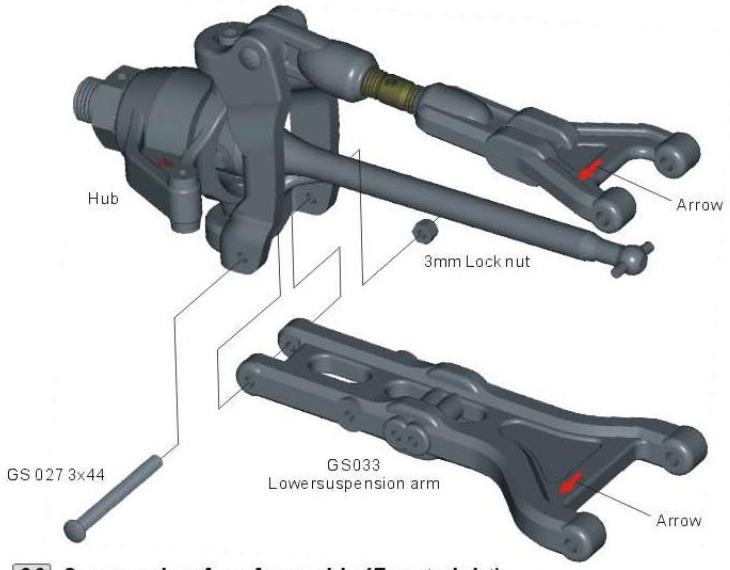
34 ***Upper Suspension Arm Assembly x4***

1. First thread on the GS074 rod end onto the GS067 threaded tie rod.
2. Next thread the tie rod and rod end into the GS033 upper suspension arm.
3. Repeat for the other side.



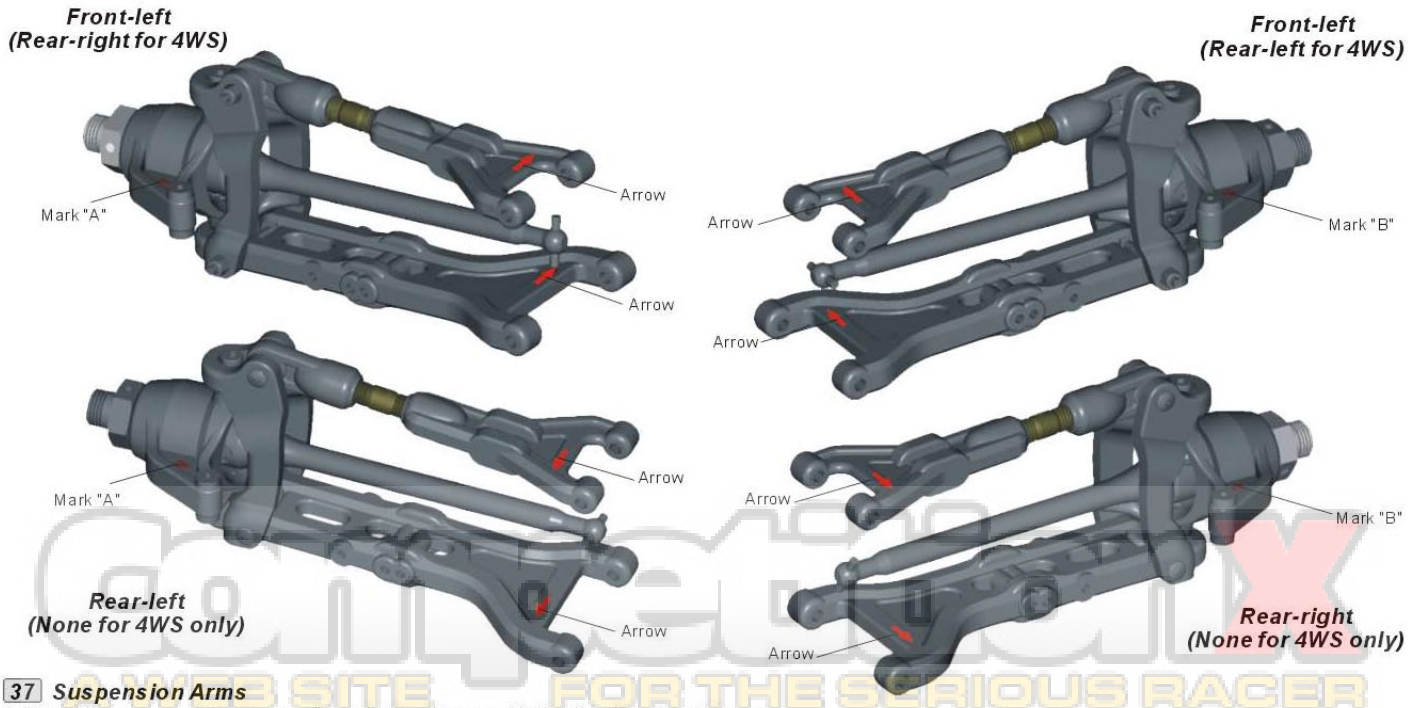
35 ***Suspension Arm Assembly (Front-right)***

1. Attach the upper suspension arm to the hub using one 3x25 screw with 3mm lock nut.
2. Repeat for other side.



36 ***Suspension Arm Assembly (Front-right)***

1. Attach the lower suspension arm to the hub assembly using one 3x44 screw and 3mm lock nut.

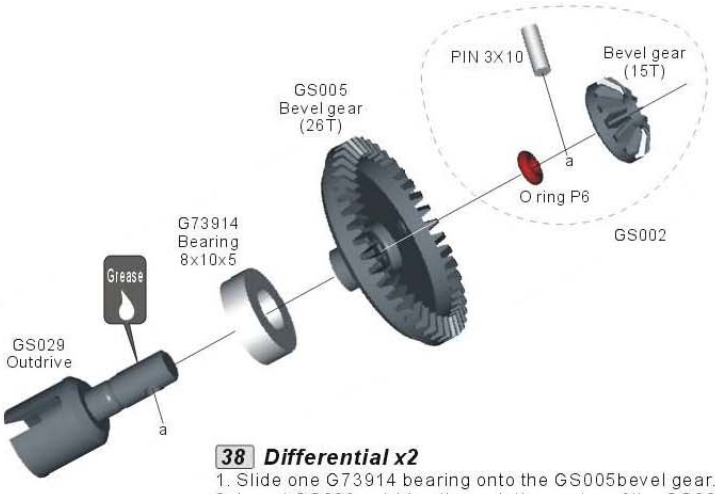


37 ***Suspension Arms***

1. Mount the suspension arms as shown in the diagram. Notice the direction of the arms.

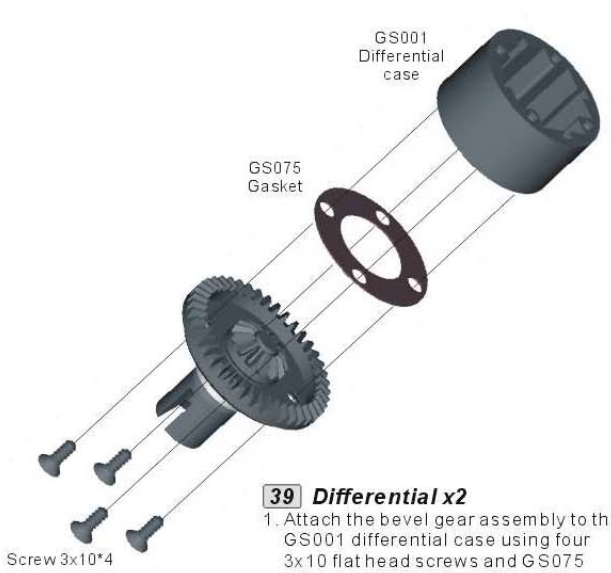
Notice: Look carefully and you will find an arrow. This arrow should always point towards the outside of the truck. Use this arrow for the front and rear.

Differential Assembly



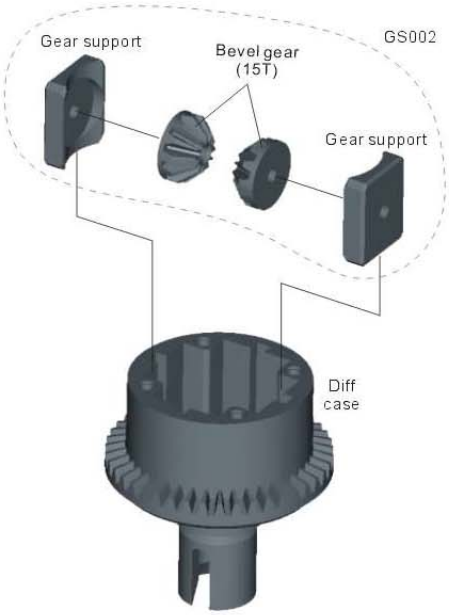
38 Differential x2

1. Slide one G73914 bearing onto the GS005bevel gear.
2. Insert GS029 outdrive through the center of the GS005 bevel gear.
3. Apply small amount of grease to the outdrive shaft followed by one P6 "O" ring.
4. Insert one 3x10 pin finishing it up with a 15T gear. Make sure you line the slot on the gear with the pin.
5. Repeat one more time.



39 Differential x2

1. Attach the bevel gear assembly to the GS001 differential case using four 3x10 flat head screws and GS075 gasket. Carefully tighten screws down equally to ensure a good seal.
2. Repeat one more time.



40 Differential x2

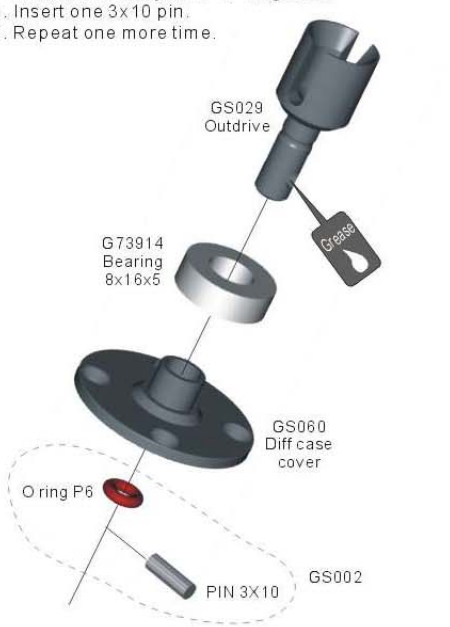
1. Install two small bevel gears and gear supports into the differential case. Carefully install everything making sure the bevel gears on the gears stay correctly in place.
2. Repeat one more time.

41 Differential x2

1. Fill the differential to the top of the smaller gears with silicon fluid.
*Don't over fill or the differential will leak.

42 Differential x2

1. Slide one G73914 bearing onto the differential case cover.
2. Insert the GS029 outdrive through the GS060 differential case cover.
3. Apply a small amount of grease to the outdrive shaft followed by a P6 "O" ring seal.
4. Insert one 3x10 pin.
5. Repeat one more time.

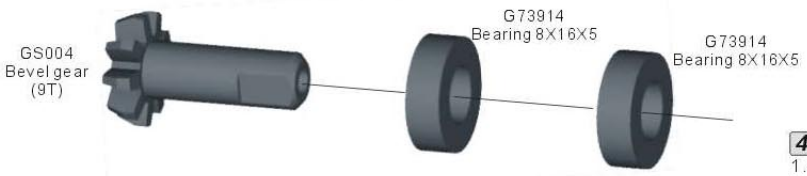


43 Differential x2

1. Put the 15T bevel gear together as shown in the picture.
2. Carefully center the GS075 gasket onto the differential case. Make sure you line up the screw holes accurately.
3. Put the two halves together as shown in the picture. S ecure with four 3x10 screws.

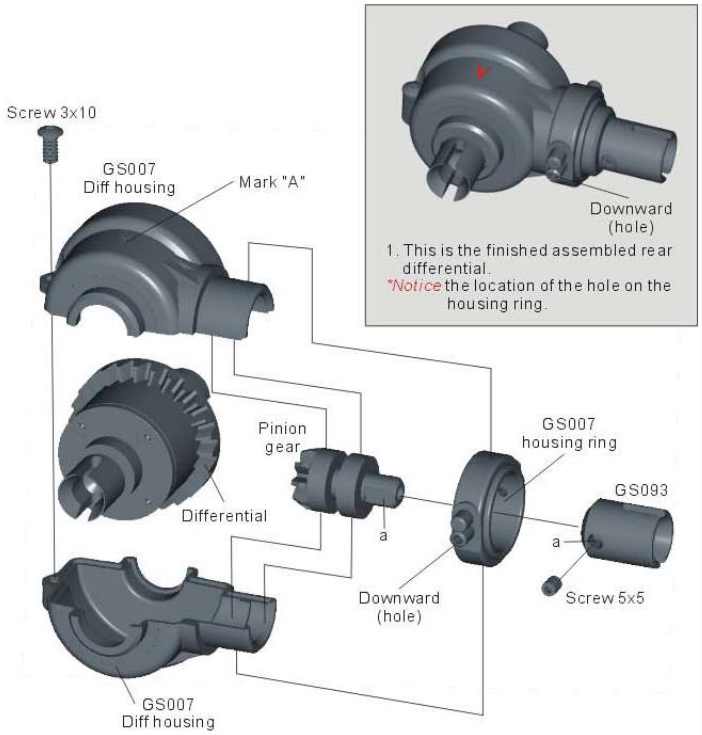
"Racer Tip" Tighten down the four screws evenly making sure they are all equally snug.

Gear Box Unit



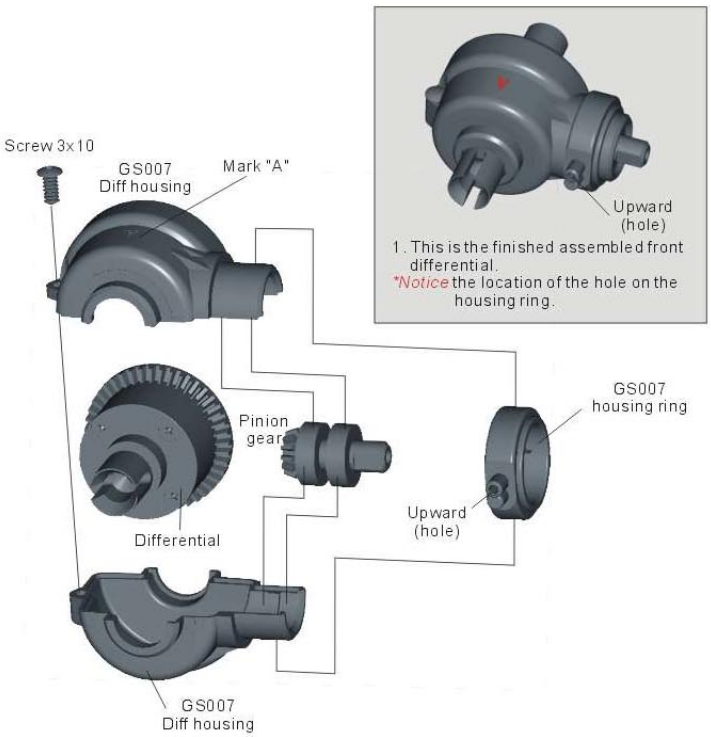
44 Bevel Pinion Gear x2

1. Slide two G73914 8x16x5 bearings onto the GS004 bevel gear.



45 Rear Gear Box

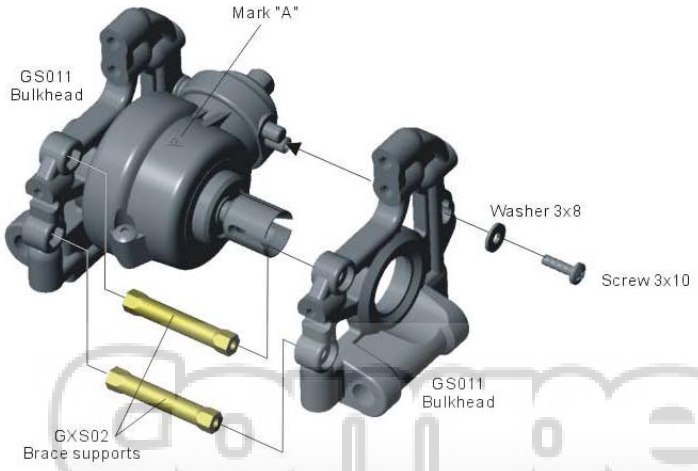
1. Place the differential and pinion gears inside the differential housing as pictured in the diagram.
2. Secure with one 3x10 screw and housing ring.



46 Front Gear Box

1. Assemble the differential housing using 3x10 screw and housing ring.

Front / Rear End



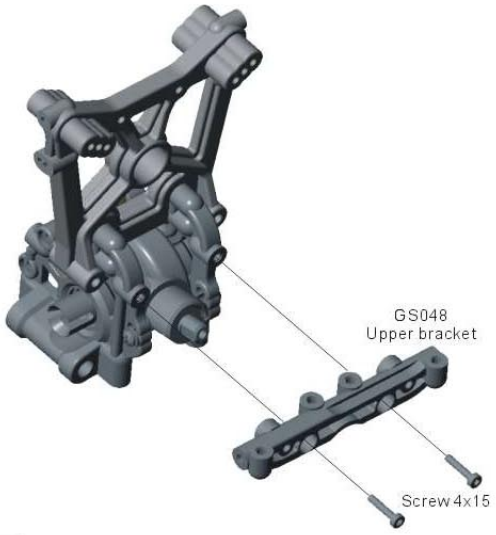
47 Rear(front) Bulkhead

1. Assemble the two GS011 bulkheads together as shown with two GXS02 brace supports.
2. Screw in two 3x10 screws with washers.
3. Repeat for the front.

48 Rear(front) Bulkhead

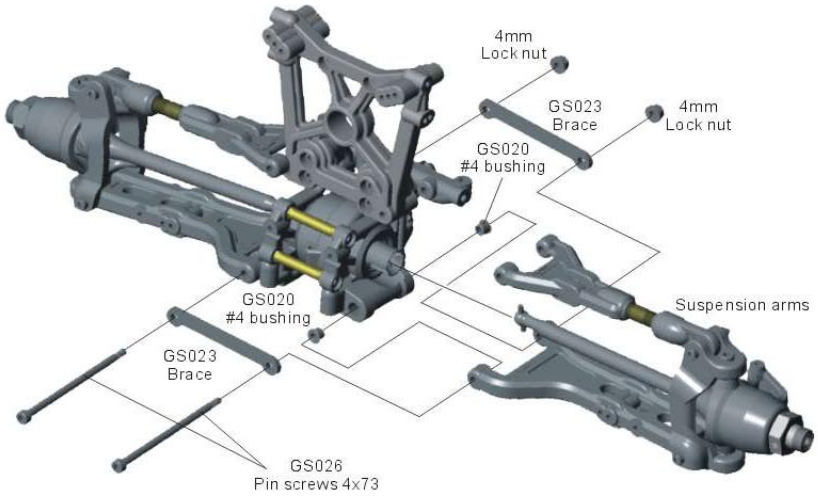
1. Secure the GS044 shock tower to the GS011 bulkheads using four 4x15 cap screws.
2. Repeat for the front.

Front / Rear End



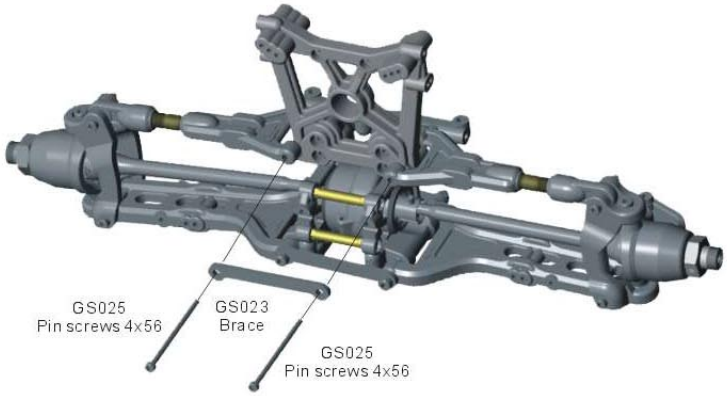
49 Upper Bracket x2

1. Secure the GS048 bracket to the rear bulkhead using two 4x15 screws.
2. Repeat for the front.



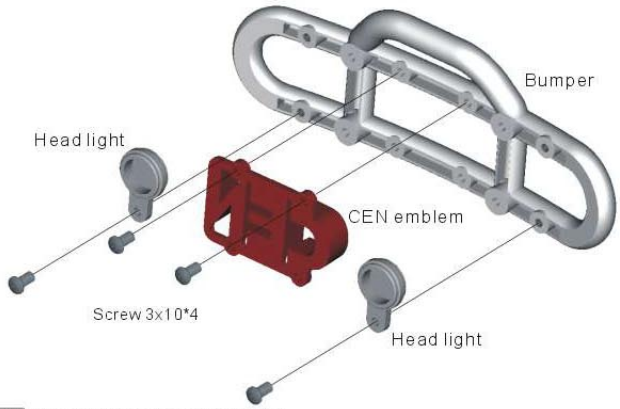
50 Front and Rear End

1. Attach the suspension arms using two GS026 pin screws, two aluminum braces, followed up with lock nuts.
2. Repeat for the front.



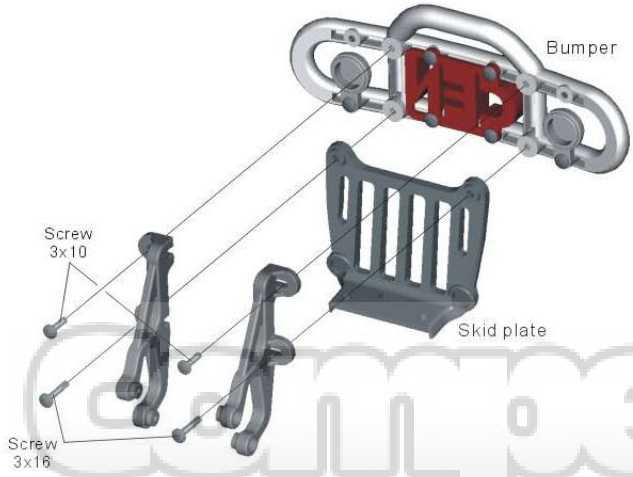
51 Front and Rear End

1. Now install the upper suspension arms and braces using GS025 pin screws, and GS023 aluminum brace.
2. Repeat for the front.



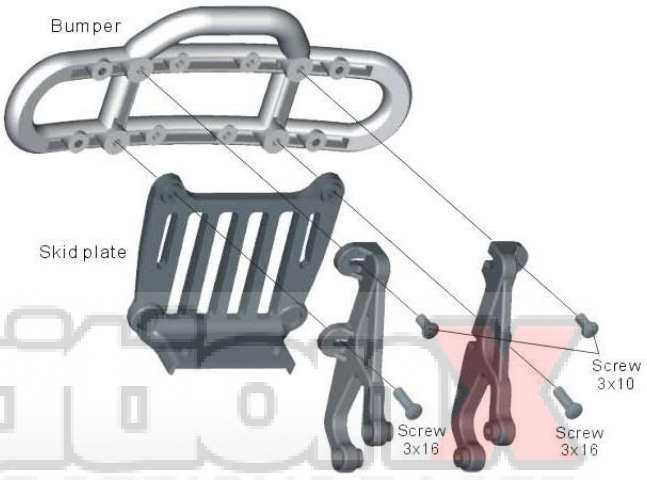
52 Front Bumper (GS042)

1. Attach the CEN emblem and head lights using 3x10 button head screws to the front bumper only.



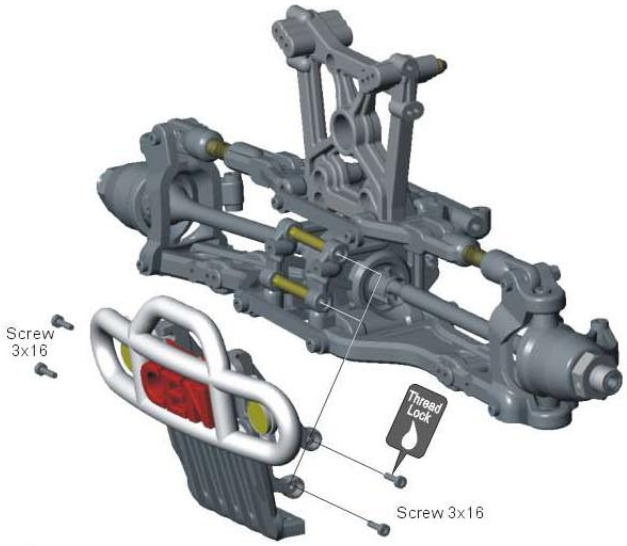
53 Front Bumper (GS042)

1. Attach bumper and skid plate using two 3x10 and two 3x16 button head screws. Notice 3x16 screws must go through skid plate into the bumper.



54 Rear Bumper (GS042)

1. .Attach the bumper and ski plate using two 3x10 and two 3x16 button head screws. Notice 3x16 screws must go through skid plate into the bumper.

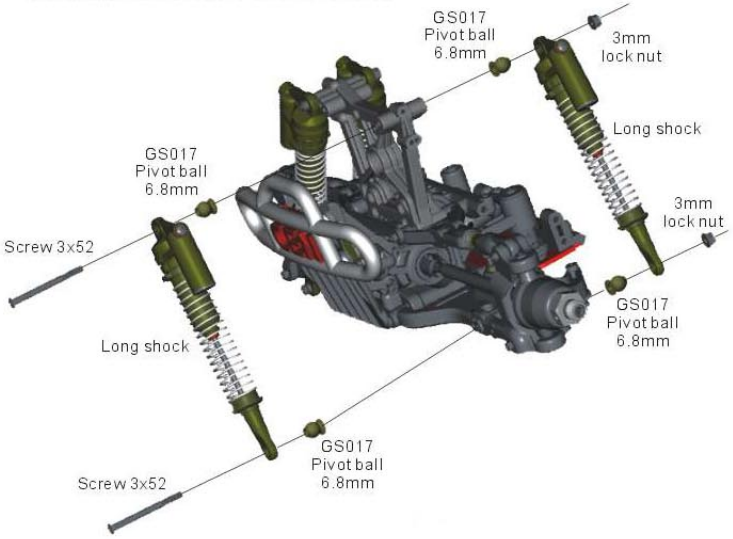


55 Front and Rear Bumper

1. Attach the front and rear bumper/skid plate assemblies using four 3x16 cap head screws.
   Notice: Thread lock recommended for these screws.

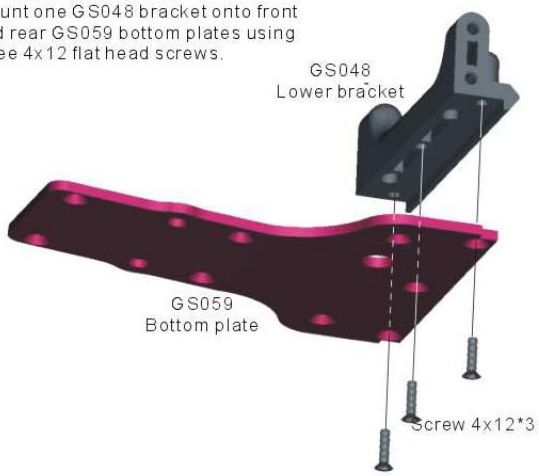
56 Front and Rear Shocks

1. Press in one shock mount pivot ball into the upper and lower eyelets for each shock.
2. Attach two shocks to each suspension arm using two 3x52 screws and two 3mm look nuts.



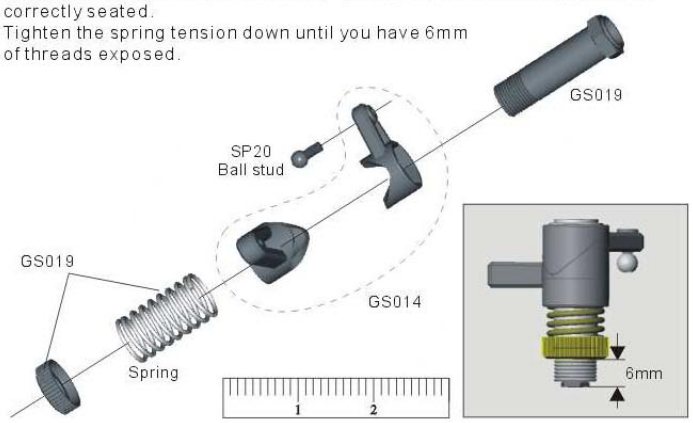
57 Lower Bracket x2

1. Mount one GS048 bracket onto front and rear GS059 bottom plates using three 4x12 flat head screws.



58 Servo Saver

1. Screw ball stud into the saver
2. Assemble the servo saver as shown. Make sure the hex on the GS019 is correctly seated.
3. Tighten the spring tension down until you have 6mm of threads exposed.

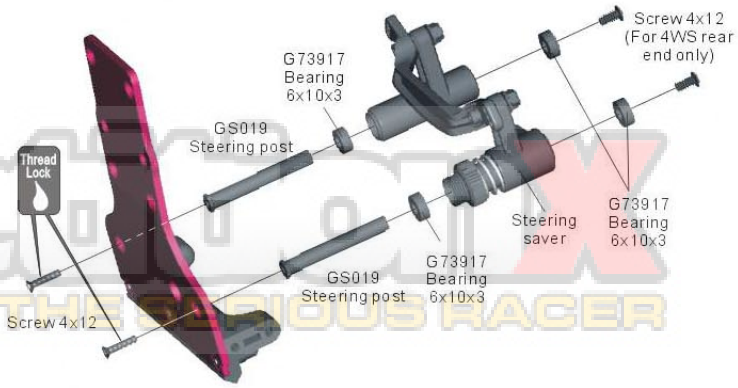


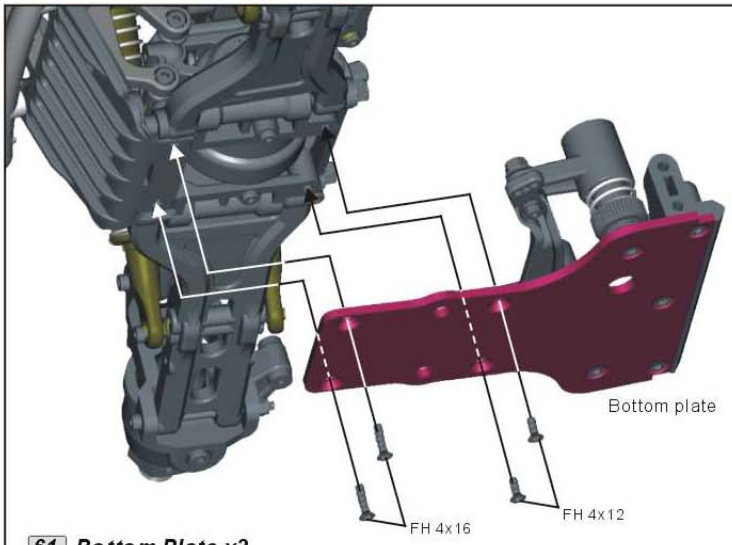
59 Steering Ball Crank

1. Attach the center link to each steering bell crank using 3x18 cap screws, two 3mm washers, two 3mm lock nuts and the GS012 #3 bushings. Double check you have the parts in the correct order as pictured.
2. Bell cranks should pivot freely. Loosen screws slightly if needed.

60 Servo Saver

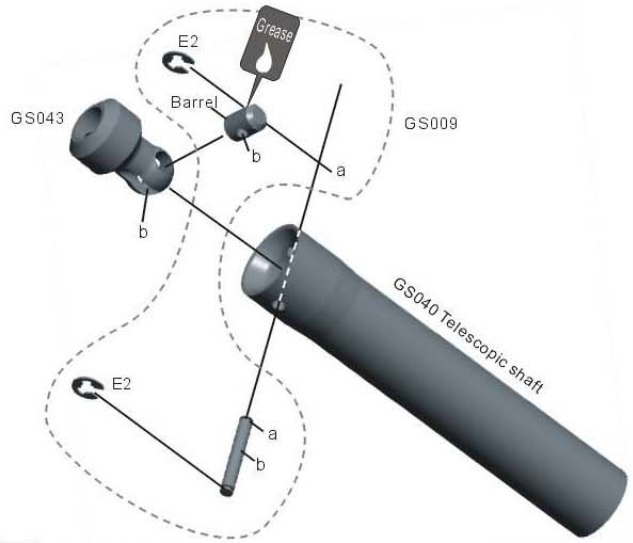
1. Attach two GS019 steering posts onto the front bottom plate using two 4x12 flat head screws.
   Notice: Thread lock is recommended for these screws.
2. Next put four G73917 bearings into the upper and lower bell cranks as shown in the picture.





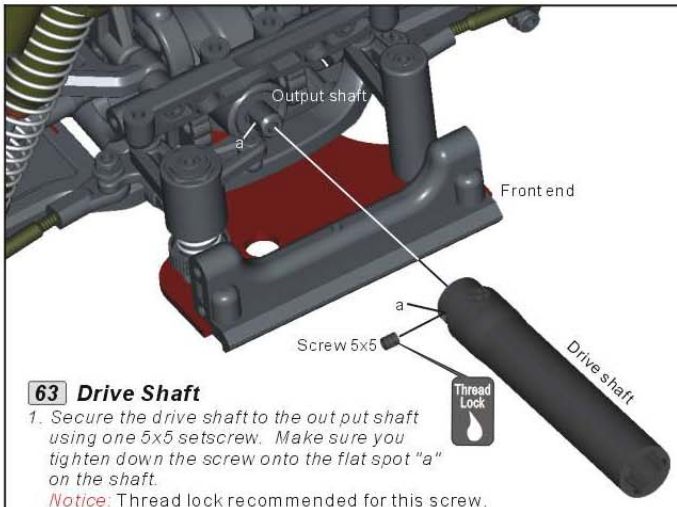
61 Bottom Plate x2

1. With the steering assembly mounted correctly onto the bottom plate, secure the entire end assembly onto the bottom plate using two 4x16 flat head screws and two 4x12 flat head screws.



62 Center Drive Shaft

1. Apply a small amount of grease to the pivot barrel marked "b".



63 Drive Shaft

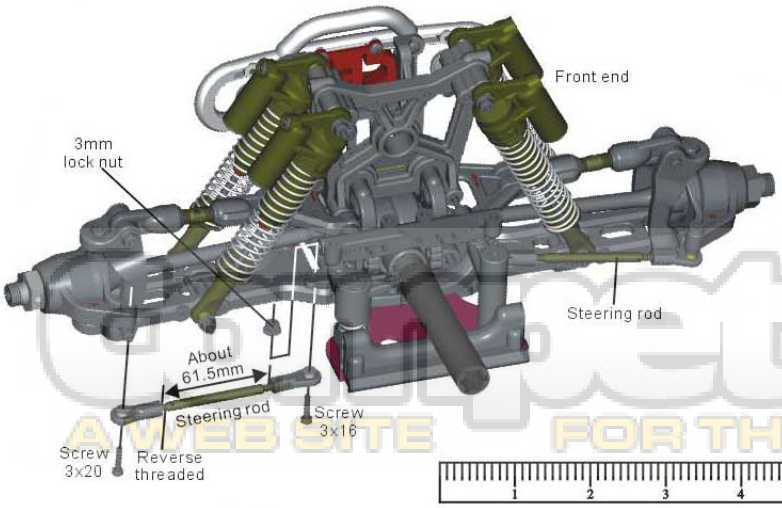
1. *Secure the drive shaft to the out put shaft using one 5x5 setscrew. Make sure you tighten down the screw onto the flat spot "a" on the shaft.*
   Notice: Thread lock recommended for this screw.

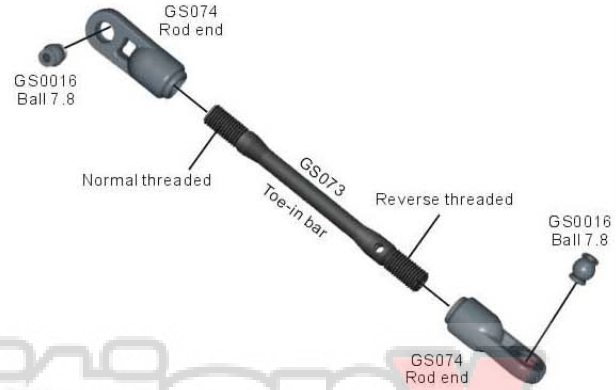
64 Steering Rod Assembly x2

1. Thread two CT032 into two GS072 steering rods.
2. Press in one pivot bushing(Ball 6.8) into each rod end.
   Notice: Carefully look at the eyelet holes. Insert bushing into open side.

65 Steering Rods

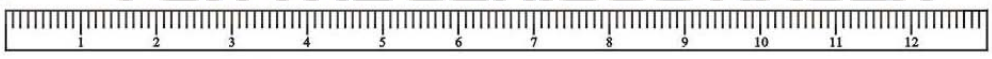
1. First mount the steering rods to the bell cranks using two 3x16 caps screws and 3mm lock nuts. The steering rod should be mounted to the bottom side of the bell cranks.
2. Next mount the outer side of the steering rod to the spindles using two 3x20 cap head screws.



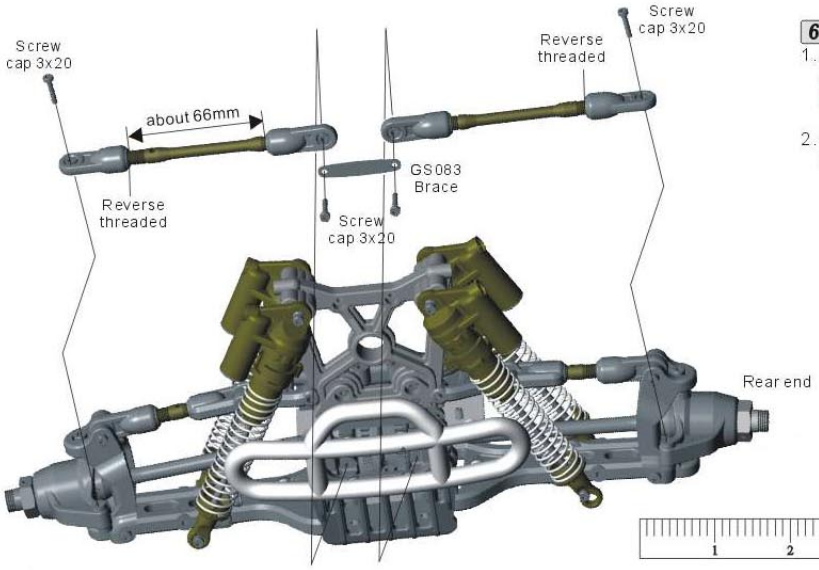


66 Toe-in Bar x2

1. Thread the GS074 rods ends onto the rear GS073 toe-in bars.
2. Press one GS016 pivot bushing into each rod end.
   Notice: Carefully look at the eyelet holes. Insert bushing into open side.



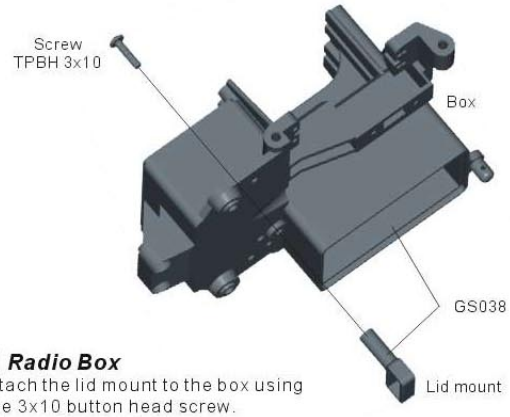
Rear End



67 ***Toe-in Bar***

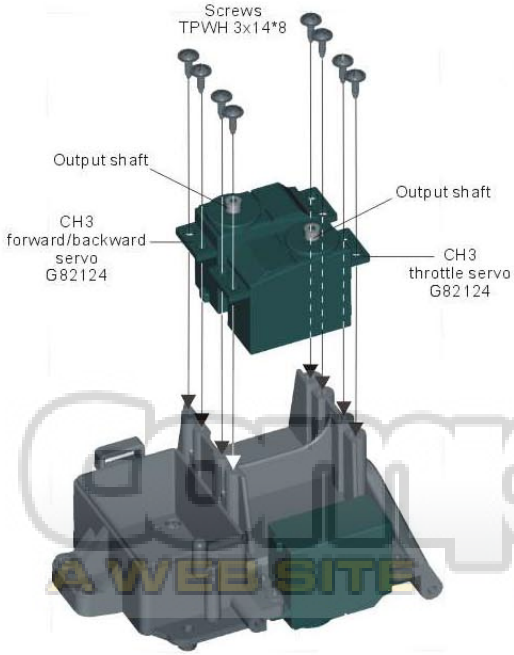
1. Secure the toe-in bars with brace to the rear bulkhead using two 3x20 cap head screws.
   Notice: Mount bars with adjusting hole on the outside for easier adjustment.
2. Secure the outer side of the bar to the rear spindle using two 3x20 cap head screws.

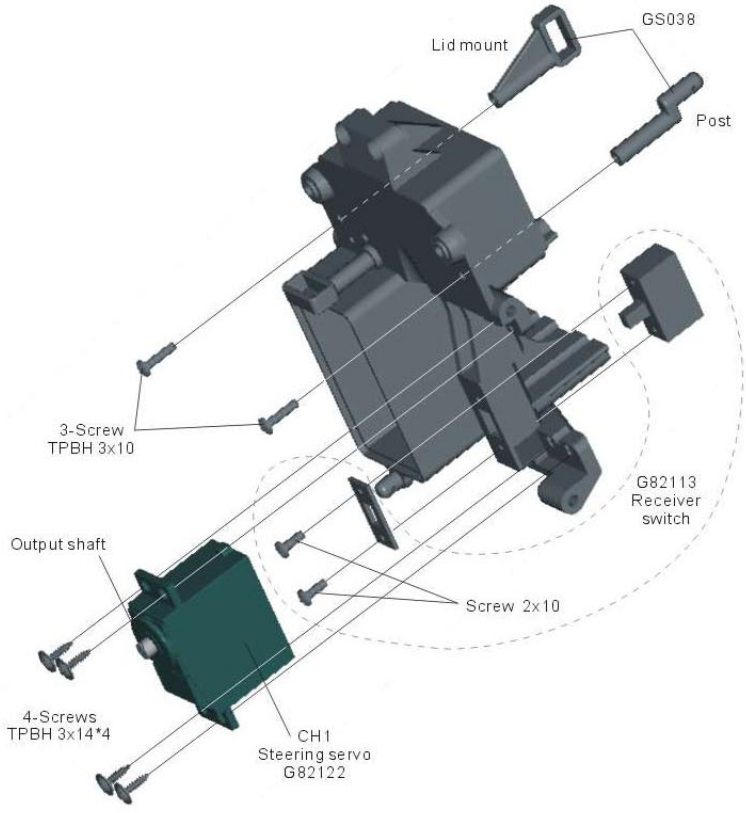
Radio Box



68 ***Radio Box***

1. Attach the lid mount to the box using one 3x10 button head screw.





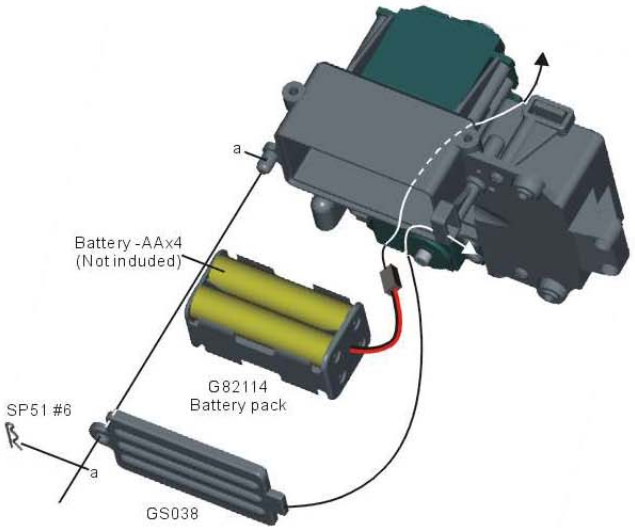
69 ***Steering Servo***

1. Mount the second lid mount and post using two 3x10 button head screws.
2. Mount the G82113 on/off switch with plate using two 2x10 screws.
3. Mount the G82122 steering servo to the underside of the radio box using four 3x14 screws.
   Notice: Pay attention to the placement of the output shaft on the servo.

70 ***Servos***

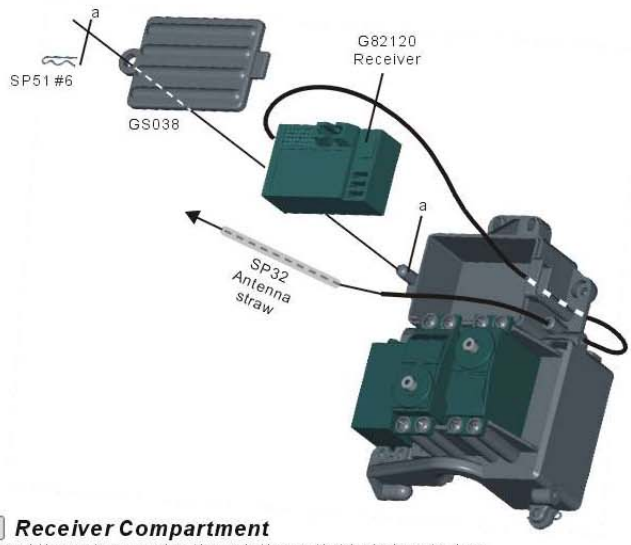
1. Mount two G82124 servos, throttle and auxiliary servo, to the upper side of the radio box using eight 3x14 screws.
   Notice: Pay attention to the placement of each servos output shaft in the diagram

Radio Box



71 Battery Compartment

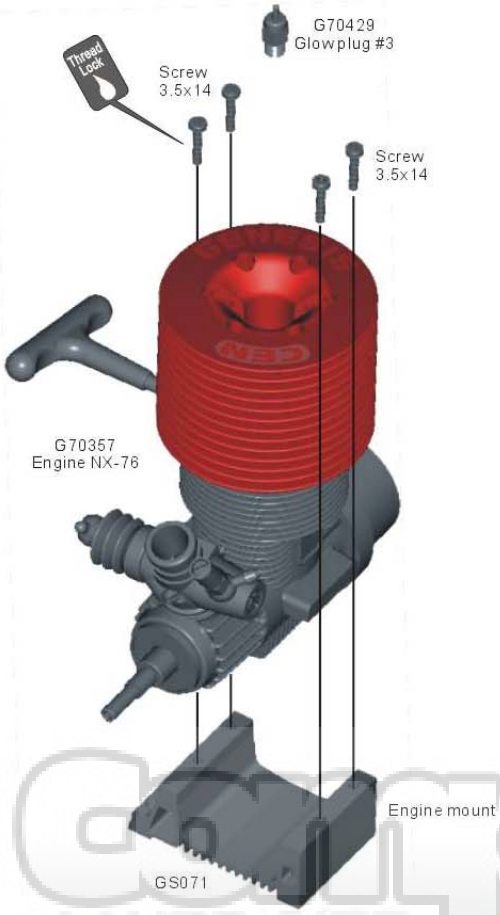
1. Install four fresh AA batteries into the G80114 battery pack.
2. Feed the plug through the outlet hole on the inside of the battery compartment.
3. Mount and secure GS038 compartment cover with one SP51 clip.



72 Receiver Compartment

1. Feed the antenna wire though the outlet hole located on the inside of the receiver compartment.
2. Mount and secure the GS038 compartment cover with one SP51 clip.
3. Gently slide the antenna wire up through the SP32 antenna straw and press into mount.

Engine

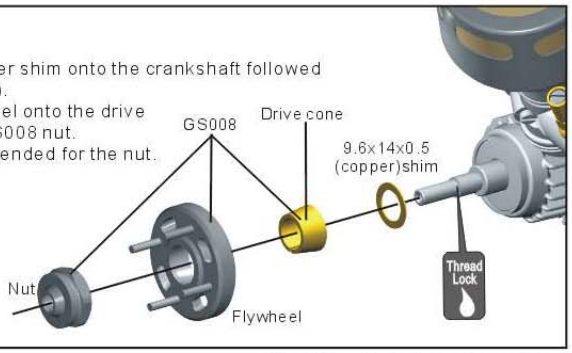


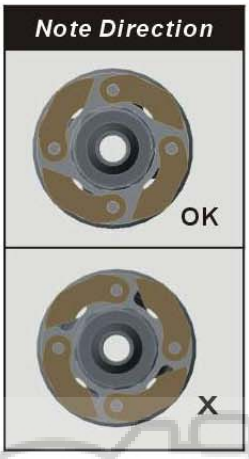
73 Engine Mount

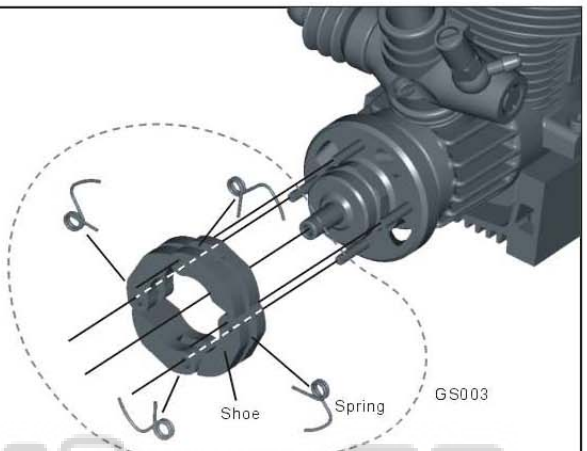
1. Mount the engine to the engine mount using four 3.5x14 cap head screws.
   Notice: Thread lock recommended on these screws.

74 Vented Flywheel

1. Install one 9.6x14x0.5 copper shim onto the crankshaft followed by the drive cone (if needed).
2. Next slide the GS008 flywheel onto the drive cone and secure with the GS008 nut.
   Notice: Thread lock is recommended for the nut.





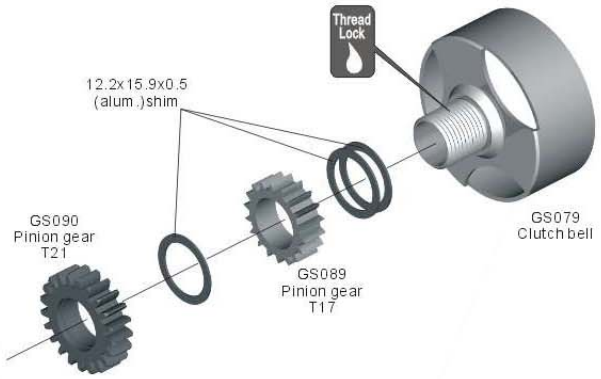


75 Clutch Shoes

1. Put one clutch spring into the center of each shoe lining up the eyelet with the hole in each shoe.
2. Press the shoe with the spring in the center half way onto the pin on the flywheel.
3. Using a flat head screwdriver press the small tab on the spring into the groove found on the clutch nut.
4. Press shoe and spring all the way down onto the flywheel pin.
5. Repeat for each shoe.
6. If done correctly the shoes will be held close by the springs.

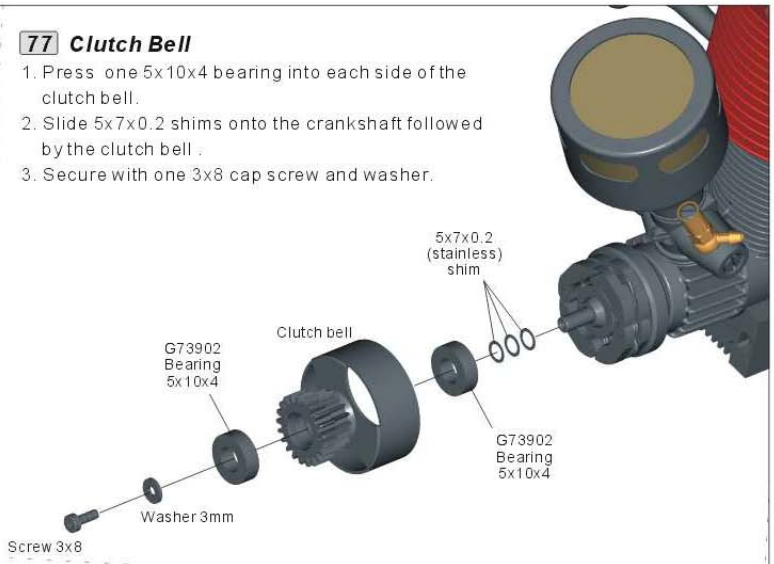
76 Clutch Bell

1. Put adjusting shim onto the clutch bell after threading on the first pinion gear if needed.
   Notice: Thread lock recommended for both pinion gears.
2. Slide one more adjusting shim onto the clutch bell and thread on second gear.



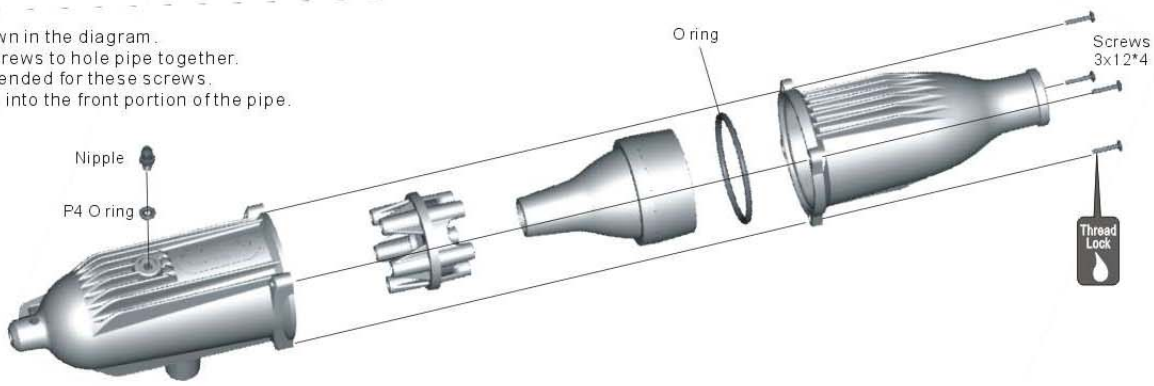
77 Clutch Bell

1. Press one 5x10x4 bearing into each side of the clutch bell.
2. Slide 5x7x0.2 shims onto the crankshaft followed by the clutch bell .
3. Secure with one 3x8 cap screw and washer.



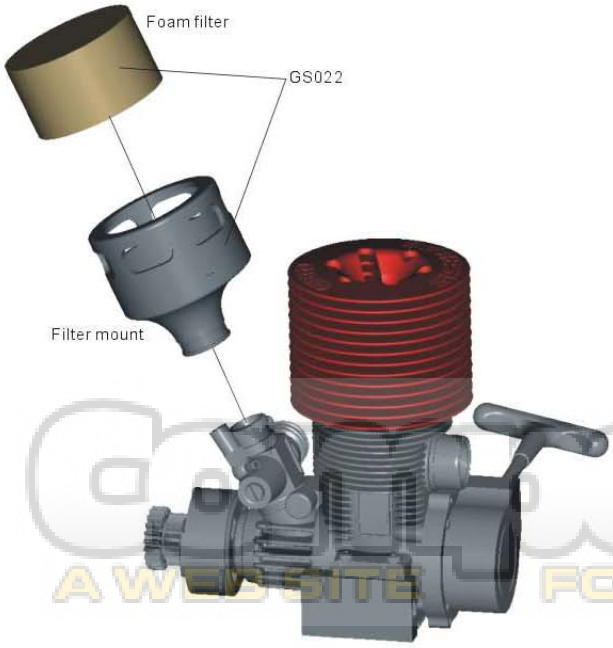
78 Muffler Pipe (GS080)

1.Assemble the muffler as shown in the diagram.
2.Use four 3x12 button head screws to hole pipe together.
Notice: Thread lock recommended for these screws.
3.Thread in nipple with "O" ring into the front portion of the pipe.



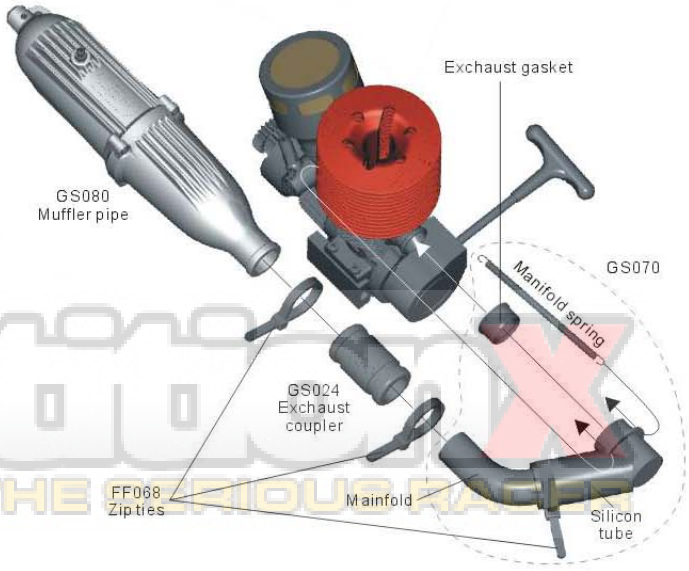
79 Air Filter

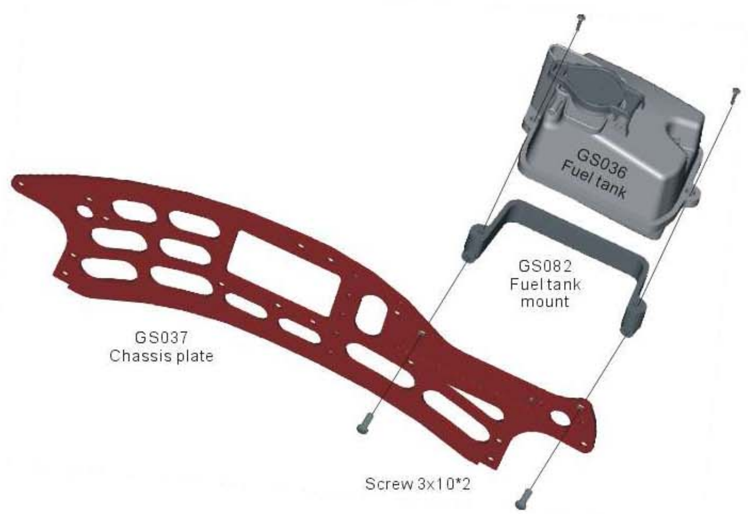
1.Press the foam filter into the rubber air filter mount.
2.Press entire air filter onto the carburetors air intake.



80 Muffler Pipe

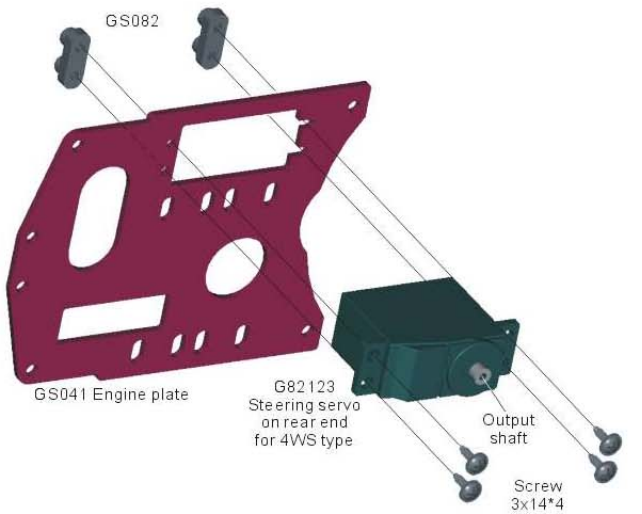
1. Push the GS024 exhaust coupler onto the GS080 pipe.
2. Press the GS070 manifold into the GS024 exhaust coupler
3. Secure using two FF068 medium zip ties. Trim off excess zip tie.
4. Press one exhaust gasket onto the engines exhaust port.
5. Gently press the manifold assembly onto the engine and secure using the supplied manifold spring.
   Notice: The exhaust spring should wrap around the engine case not the carburetor.





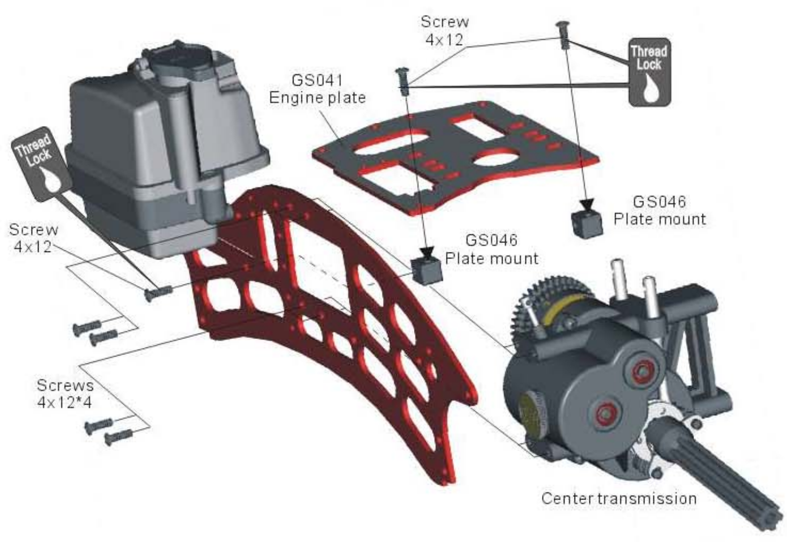
81 Fuel Tank

1. Secure the fuel tank mount to the GS037 chassis plate as shown using two 3x10 button head screws.
2. Mount the GS036 fuel tank to the mount using two 3x14 screws.
   Notice: Tighten down just enough to slightly compress the fuel tank.



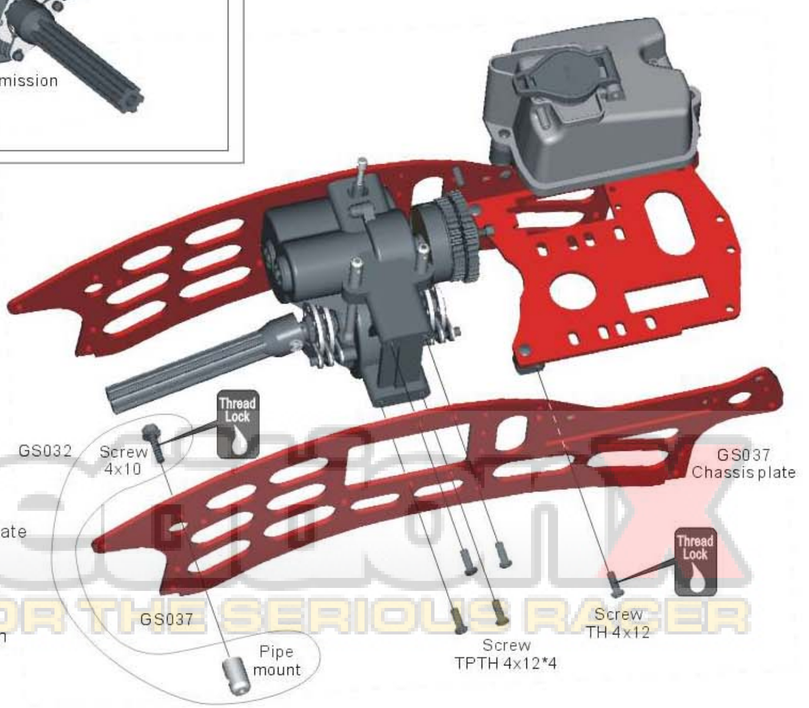
82 Steering Servo on Rear End for Optional 4WS

1. Secure the G82123 rear steering servo (not included) to the GS041 engine plate using four 3x14 screws and two GS082 servo mounts.
   Notice: Double check the location of the servo output shaft.



83 Center Transmission

1. Mount the aluminum plate mounts to the engine plate using two 4x12 button head screws
   Notice: Thread lock recommended for these screws.
2. Secure the center transmission to the same side plate that the fuel tank is mounted on using four 4x12 button head screws. Make sure you have the correct side of the transmission lined up.
3. Next secure the first side of the engine plate using one 4x12 button head screw.
   Notice: Thread lock recommended for the screw.



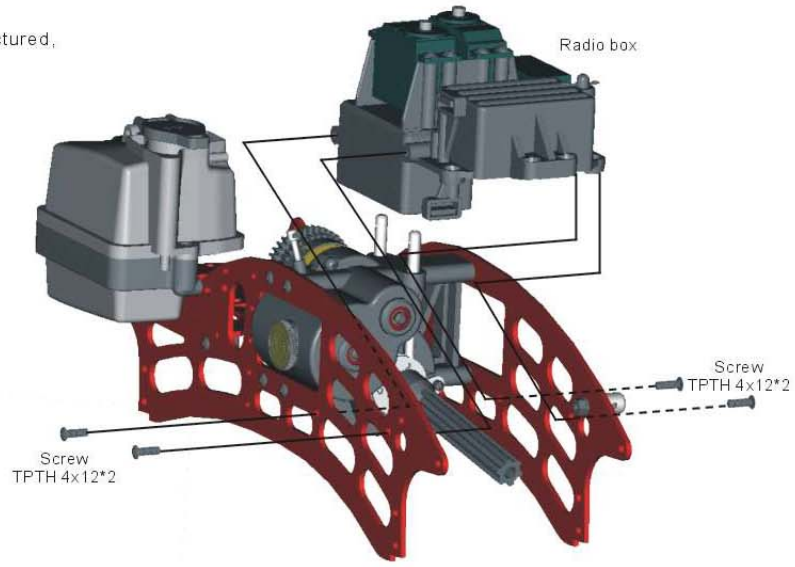
84 Center Transmission

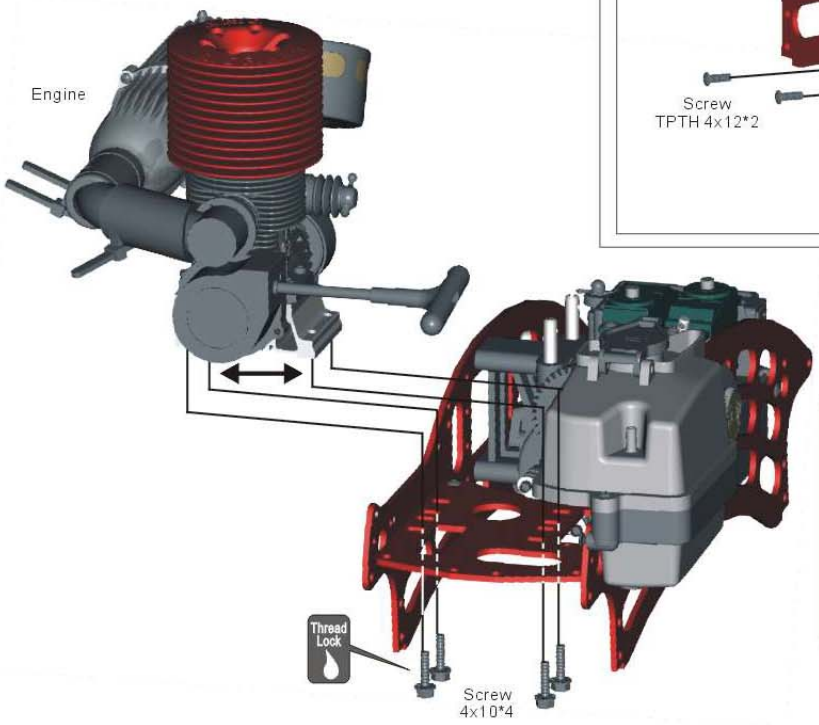
1. First mount the pipe mount to the left side of the GS037 chassis plate using one 4x10 hexagonal head screw.
   Notice: Thread lock recommended for this screw.
2. Secure the left chassis plate to the center transmission using four 4x12 button head screws.
3. Secure the chassis plate to the engine plate using one 4x12 button head screw.
   Notice: Thread lock recommended for this screw.

Frame

85 Radio Box

1. Mount assembled Radio Box in the middle of the chassis plates as pictured, using four 4x12 button head screws.





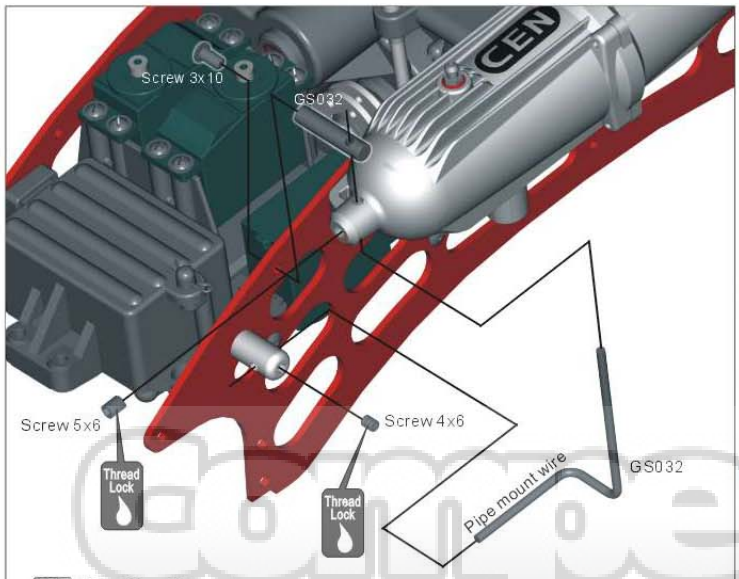
86 Engine

1. Mount the massive .46 engine to the engine plate using four 4x10 hexagonal head screws. Gear mesh will need to be set. *Notice:* Thread lock is recommended on all these screws.

Setting Proper Gear Mesh

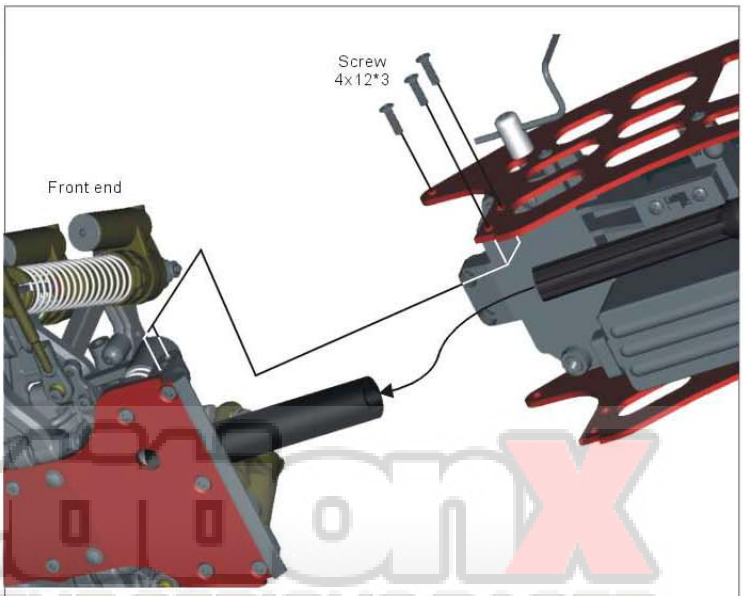
The engine plate is slotted to allow different size gears to be used. This means you must manually set the distance between the spur and pinion gears.

First screw all four engine mounting screws down leaving them just loose enough to slide the engine right and left. Slide the two sets of gears all the way together then back off slightly. Tighten down two of the screws temporarily to hold engine in place. Now you need to check the gear mesh. Hold one set of gears still, and check the other set for movement between the two sets of gears. When set correctly the gears should spin smoothly, while being as close together as possible. Tighten down all remaining screws.



87 Muffler Mount

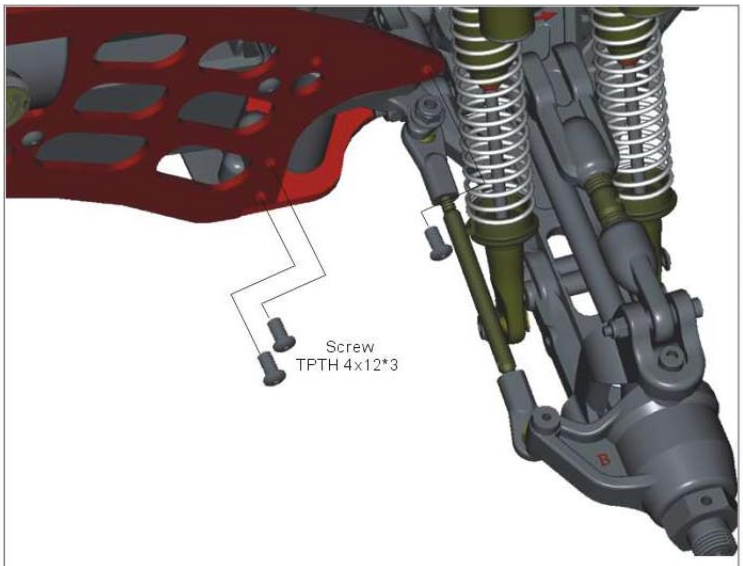
1. First slide the pipe mount wire through the pipe mount hole. Secure it with the 4x6 set screw.
2. Next slide the pipe mount wire through the end of the muffler. Secure it with the 5x6 set screw.



88 Front End

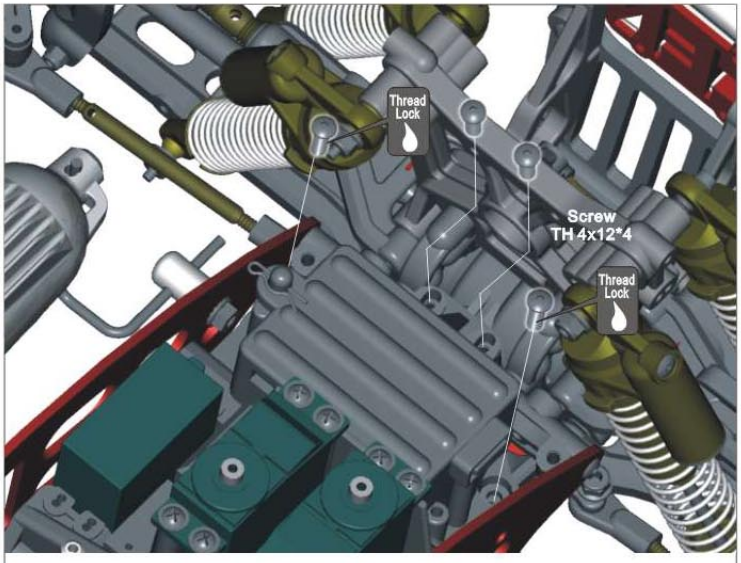
1. Secure the front end assembly to the chassis plates as pictured using three 4x12 button head screws.

Frame



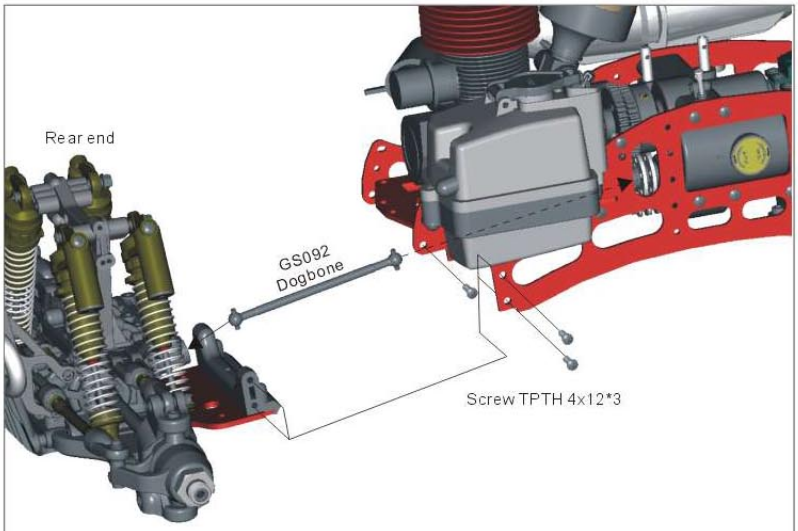
89 Front End

1. Finish securing the front end with three 4x12 head screws for the right side of the chassis.
2. Repeat for left side.



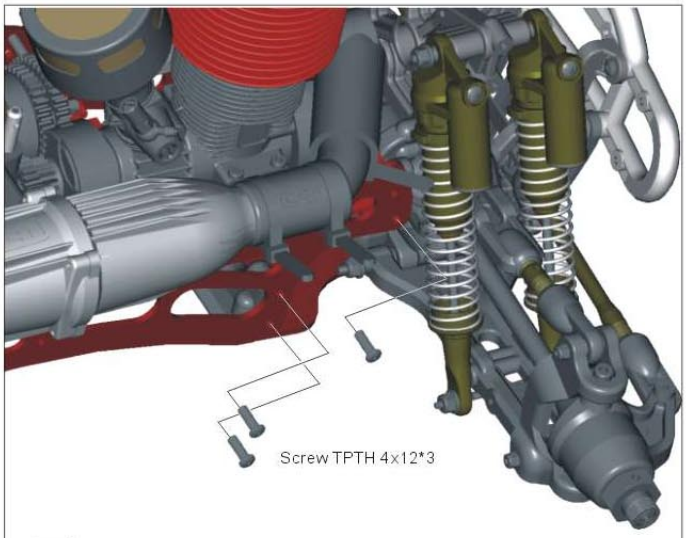
90 Front End

1. Secure the front side of the radio box using four 4x12 screws as shown in the picture.
   Notice: Thread lock is recommended for the two 4x12 screws that thread into the steering posts.



91 Rear End

1. Next secure the rear end assembly to the chassis using three 4x12 button head screws on each side as shown.



92 Rear End

1. Secure the left side using three 4x12 button head screws.
2. Repeat for the right side.

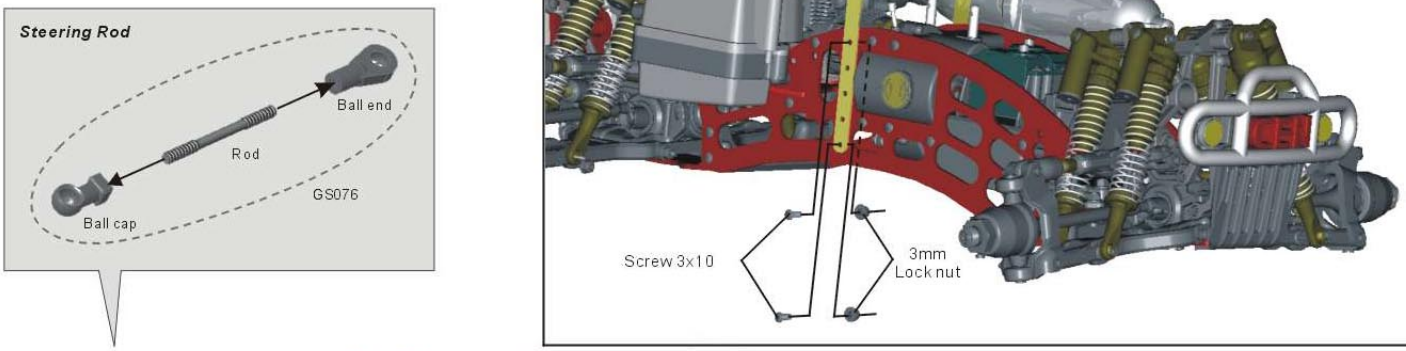
93 Rear End

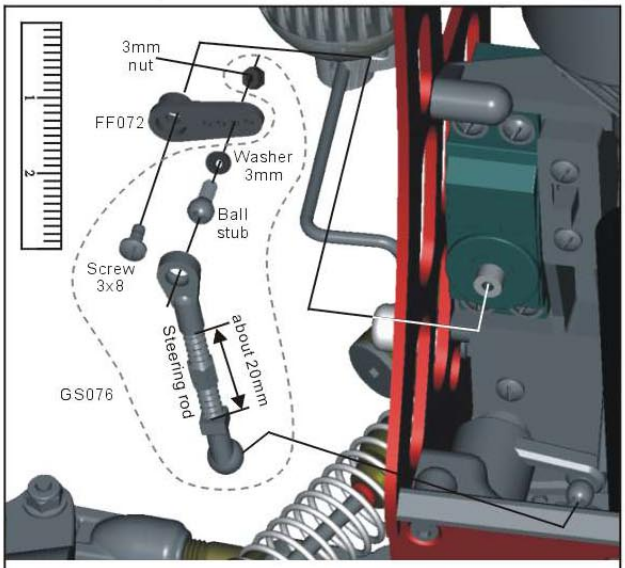
1. Secure the rear of the engine mounting plate using four 4x12 button head screws as shown.

Frame

94 Roll Over Bar

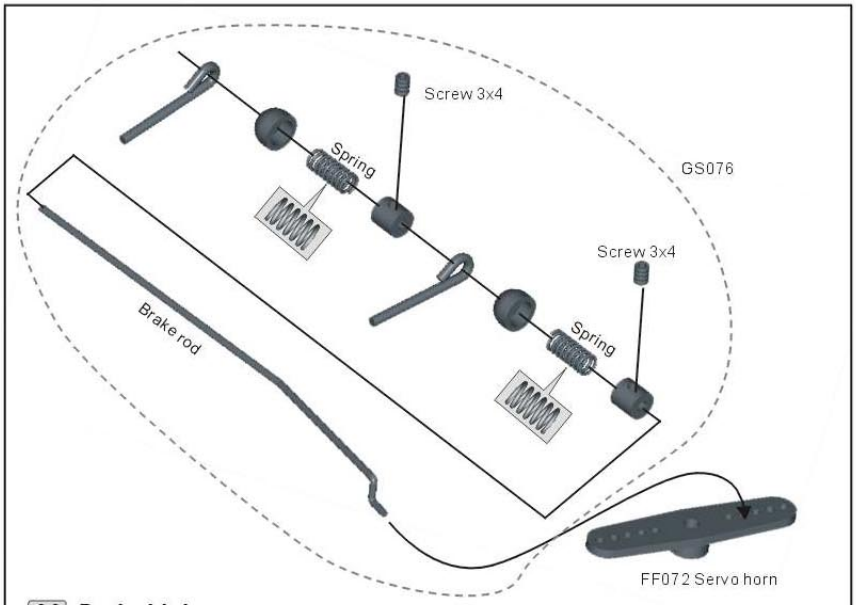
1. Mount the GS081 roll over bar using four 3x10 button head screws and four 3mm locknuts.





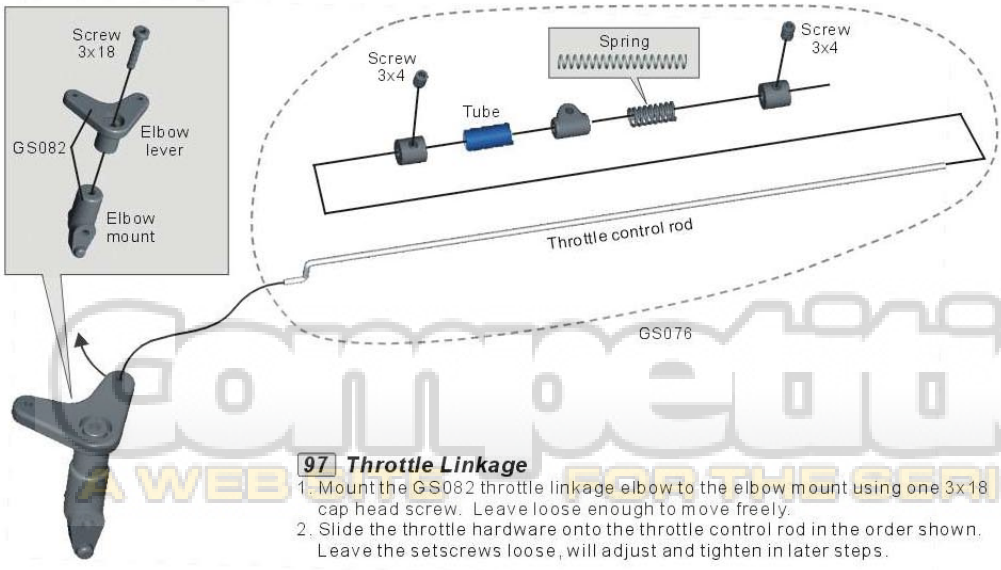
95 Steering Servo Arm

1. Thread one ball stub into the 3rd hole on your servo horn as shown.
2. Center steering servo and press servo horn on and secure with 3x8 button head screw.



96 Brake Linkage

1. First insert the brake rod into the second hole of the servo horn.
2. Next slide the hardware onto the rod in the order shown in the diagram. Leave the setscrews loose, will adjust in later steps.

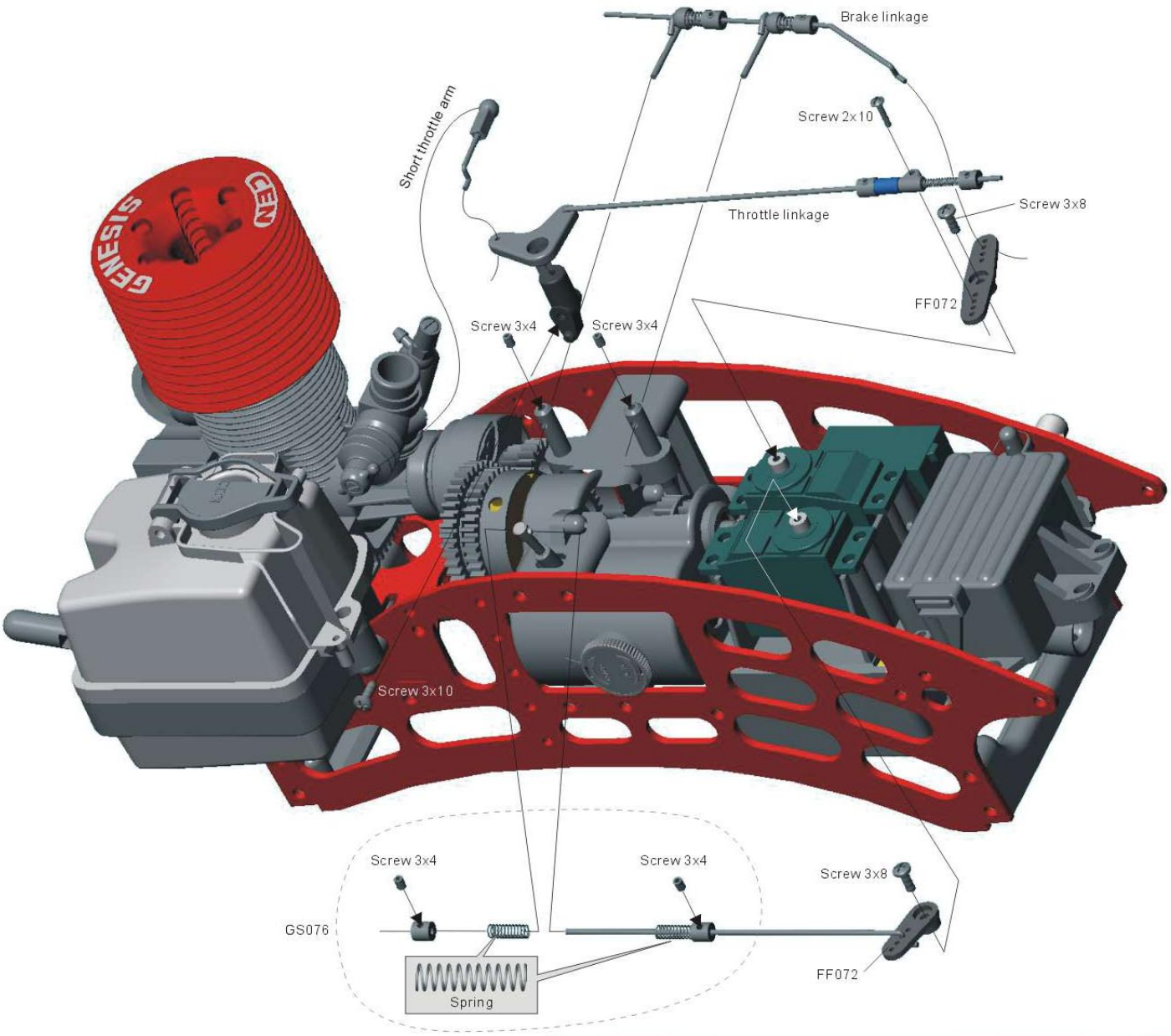


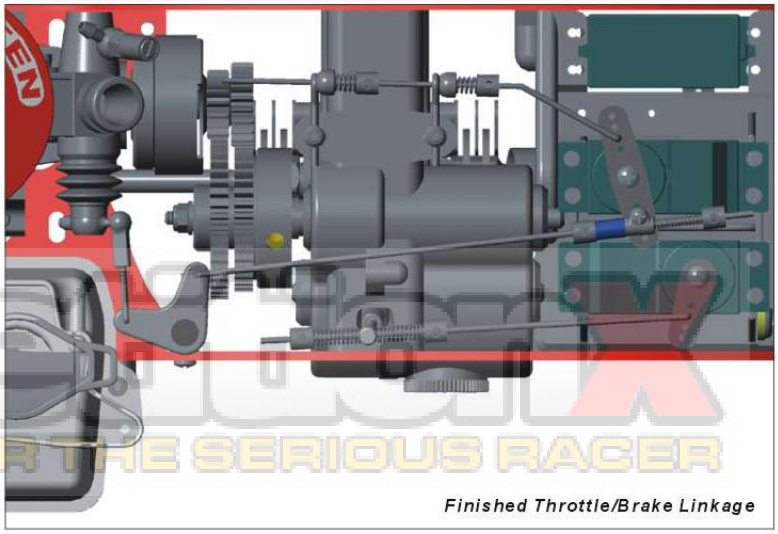
97 Throttle Linkage

1. Mount the GS082 throttle linkage elbow to the elbow mount using one 3x18 cap head screw. Leave loose enough to move freely.
2. Slide the throttle hardware onto the throttle control rod in the order shown. Leave the setscrews loose, will adjust and tighten in later steps.

98 Carburetor Arm

1. Thread the carburetor ball cup onto the short throttle rod.





Finished Throttle/Brake Linkage

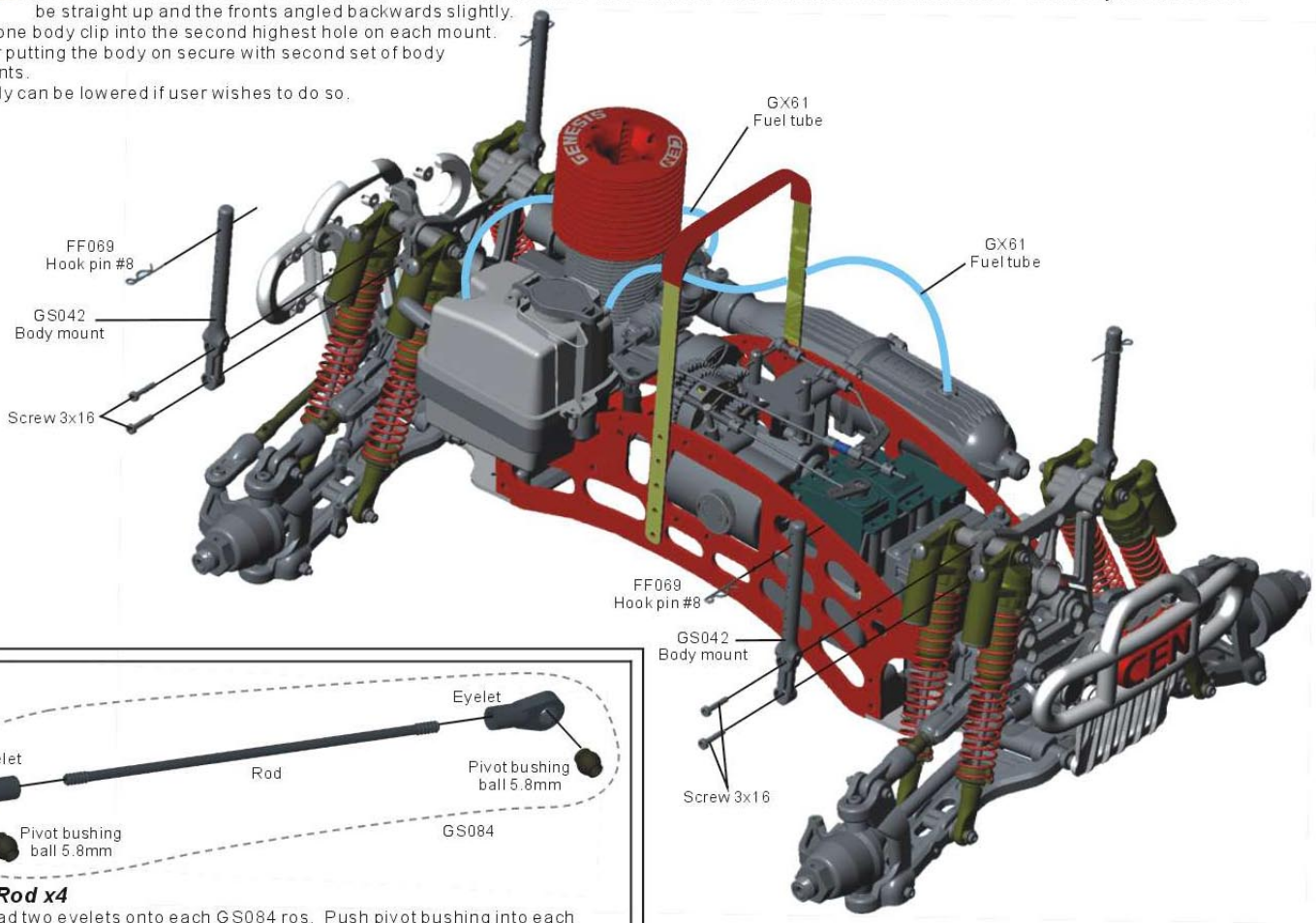
99 ***Throttle/Brake Linkage***

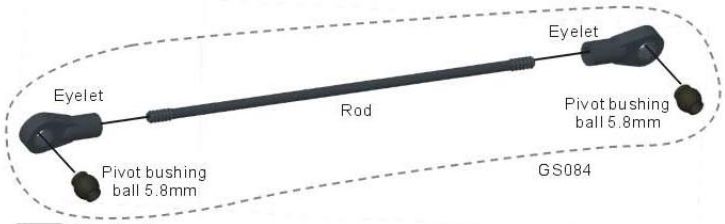
1. Secure the throttle elbow to the right chassis plate using one 3x10 button head screw.
2. Insert the short throttle arm into the throttle elbow as shown.
3. Snap the ball cup onto the ball stud found on the carburetor.
4. Insert the two brake lever arms into the two brake camshafts using two 3x4 setscrews.

Frame

100 Body Mounts

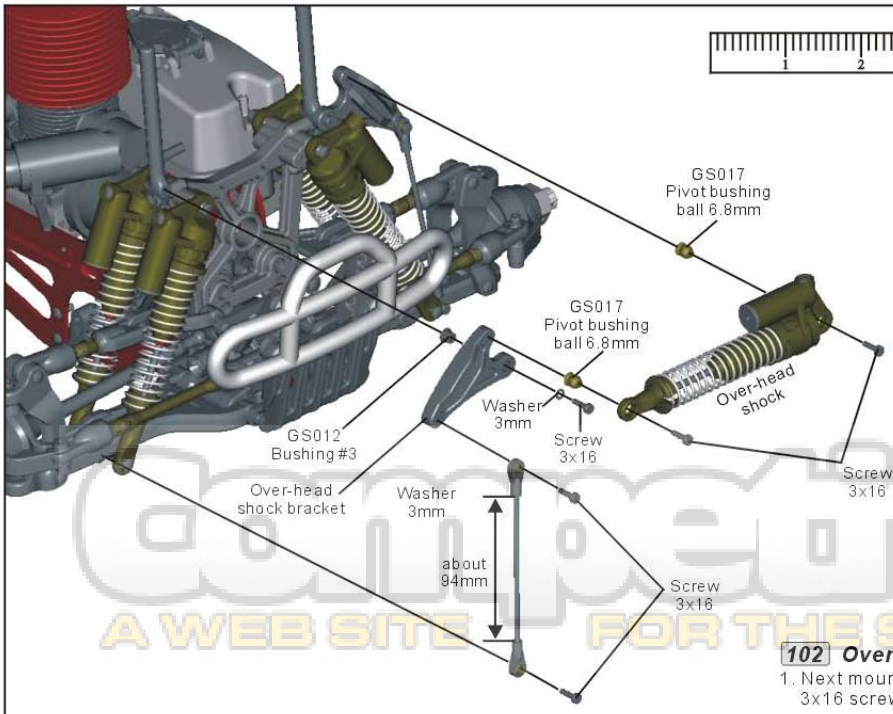
1. Mount four GS042 body mounts to the front and rear shock towers using eight 3x16 cap head screws.
   Notice: There are two lower holes to choose from. On the rear shock use the rear hole. On the front use the forward hole. *Rear body mounts should be straight up and the fronts angled backwards slightly.
2. Put one body clip into the second highest hole on each mount. After putting the body on secure with second set of body mounts.
   *Body can be lowered if user wishes to do so.

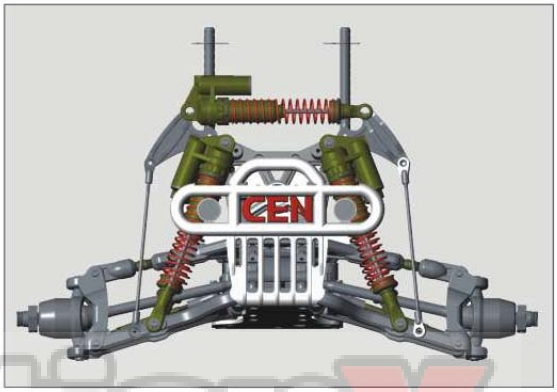




101 Rod x4

1. Thread two eyelets onto each GS084 ros. Push pivot bushing into each eyelet.
   Notice: Carefully look at the eyelet holes. Insert bushing into open side.





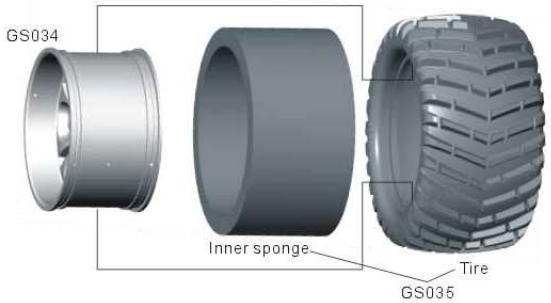
102 Over-Head Shock x2

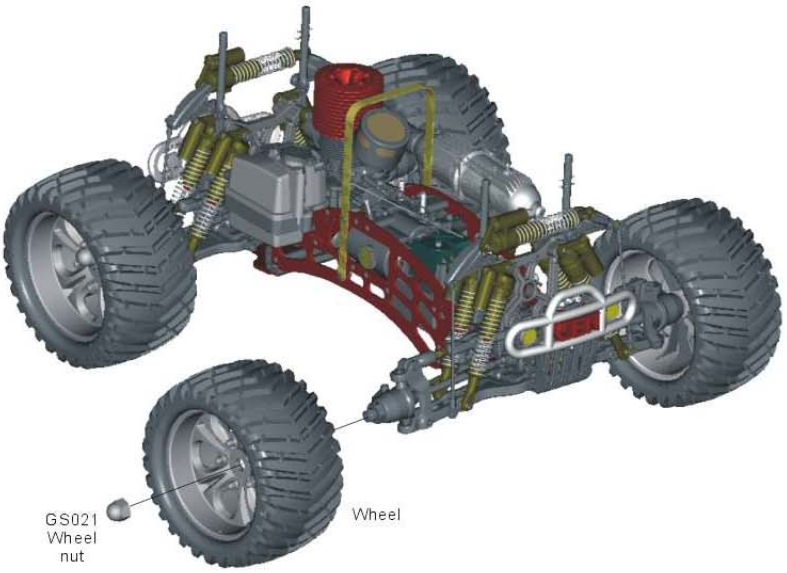
1. Next mount each over-head shock bracket onto the body mounts with one 3x16 screw, GS012 bushing, and one 3mm washer.

Wheel

103 Wheels

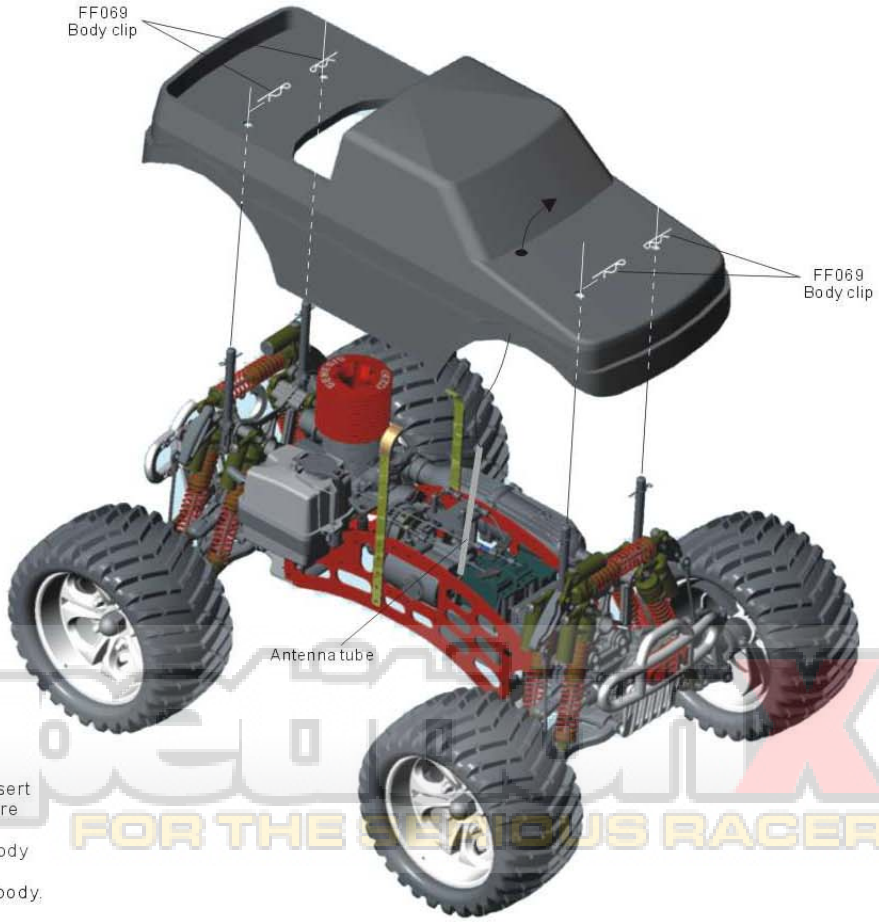
1. First carefully seat the foam inside the tire.
2. Gently pull the tire with insert over the wheel. You want the mounting rib to sit in the ridge on the wheel.
   Notice: The tires are directional. Refer to the picture below for correct position.
3. After the tire is neatly seated on the wheel you need to glue the tires to the wheels.
4. Using CA glue, lift the tire up slightly from the wheel and apply a small bead around the entire wheel/tire.
5. Repeat for each side of each tire.





104 Wheels

1. After the glue on the tires has dried completely it is time to bolt them to the truck.
2. Using the supplied wheel wrench, tighten down the GS021 wheel nuts.



105 Body

1. The Genesis body comes pre-drilled for you.
2. Select the height you would like the body to sit. Insert one FF069 body clip into each body post. Make sure you have the clips in the same hole on each post.
3. Place body onto the post and secure with FF069 body clips.
   Remember to insert the antenna tube through the body.

THE SMART SOLUTION

G82125

3 Channel Proportional Radio Set

Features

- Pistol grip 3 channel AM proportional radio
- Non-slip steering wheel
- Steering ,Throttle and auxiliary servos reversing switches
- Steering and Throttle Servo(s) Trim adjustment
- Throttle Trigger Adjustment switch (5:5 & 7:3)
- Steering Dual rate Adjustment
- Ni-Cad battery charging Jack in Transmitter
- LED power indicator for battery condition
- Auto Cut-off Power Saving System for transmitter

Specifications-

(1) Transmitter

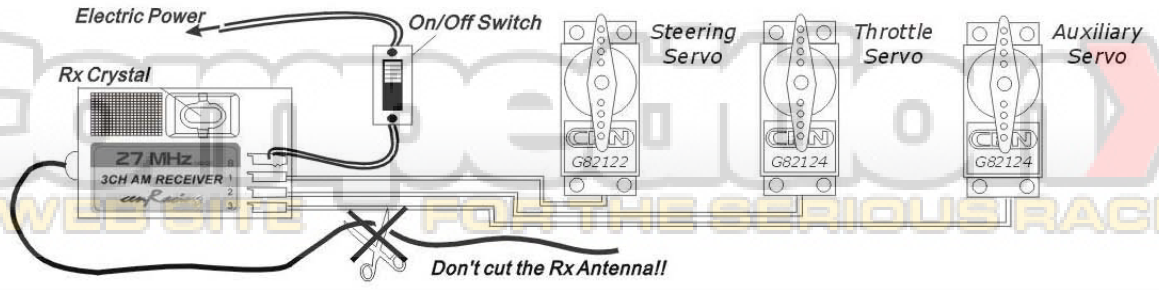
Model	G82121
Output power	500 mW
Modulation	AM/PPM
Power Requirement	AA battery 8pcs.(DC 12V) (Ni-Cad or Alkaline)
Frequency	27MHz

(2) Receiver

Model	G82120
Modulation	AM
Power requirement	DC4.8-6.0V (Ni-Cad or Alkaline)
Frequency	27MHz

(3) Servo

Model	G82122 (metal gears)	G82124 (metal gears)
Output Torque	10kg.cm/4.8v	5kg.cm/4.8v
Operating Speed	0.18sec/60°	0.18sec/60°



LED Power Indicator

(A) **Battery conditions**

Green Batteries are in good condition (12-8.5V)
Yellow Batteries are in acceptable condition (8.4-8.0V)
Red Batteries are very low (7.9-7.0V)
* LED will flash red every three seconds. Batteries then need to be replaced (alkaline) or recharge (Ni-cads) before operating radio again.
* After replaced the new batteries, turn off the radio then turn back on to regain normal operation.

(B) **Auto Cut-off Power Saving System**

Power will automatically turn off when radio has not been used for longer then 5 minutes.
*After auto-cut off, please turn off the radio, then turn back on to regain normal operation..

Power Switch

Use to turn transmitter on

Antenna

Pull antenna to full length before operating.

Steering Wheel

Use to steer the vehicle left and right

Steering Trim Adjustment

Adjusts steering trim from left to right

Steering Dual Rate Adjustment

Adjusts the amount of steering model has

Throttle Trim Adjustment

Adjusts throttles neutral point

Throttle Trigger Adjustment

Two neutral positions can be adjusted the trigger
5-5 Models that have reverse
7-3 Models that have no reverse with brakes

Steering Servo Reverse Switch

Use to reverse direction of steering servo

Throttle servo Reverse Switch

Use to reverse direction of throttle servo

Auxiliary Servo Reversing Switch (3ch)

Use to reverse the direction of 3rd channel servo

TX (Transmitter) Crystal Holder/Plug

Used to replace or change transmitter crystal

Rechargeable Battery charging jack

Only use when Ni-cad or NiMh batteries are installed in transmitter.

Throttle Trigger

Use to accelerate and brake.

Forward/Reverse

Shifts switch for forward and reverse (3rd channel)

Battery Cover

Push down and slide battery cover open and install eight (8) Ni-Cad or alkaline AA size batteries

G82130 CEN Racing Safeguard

SafeGuard Installation Instructions

Step1: Plug the throttle servo into the SafeGuard.

Step2: Make sure the leads plugged into the SafeGuard are in the same exact order as the leads exiting the unit.

Step3: Mount the SafeGaurd onto the chassis with double sided. Make sure you can still easily access the adjustment pot from the stop you mount the unit.

Set-up and Adjusting

* Make sure your using fresh batteries when setting-up the SafeGaurd.

Step1: Turn the model on leaving your transmitter turned off. The L.E.D should now be flashing which indicated the unit is controlling the servo.

Step2: Using a small screw driver turn the adjust pot to set the position of the servo when the single is lost. We recommend you set it to apply the brakes when single is lost.

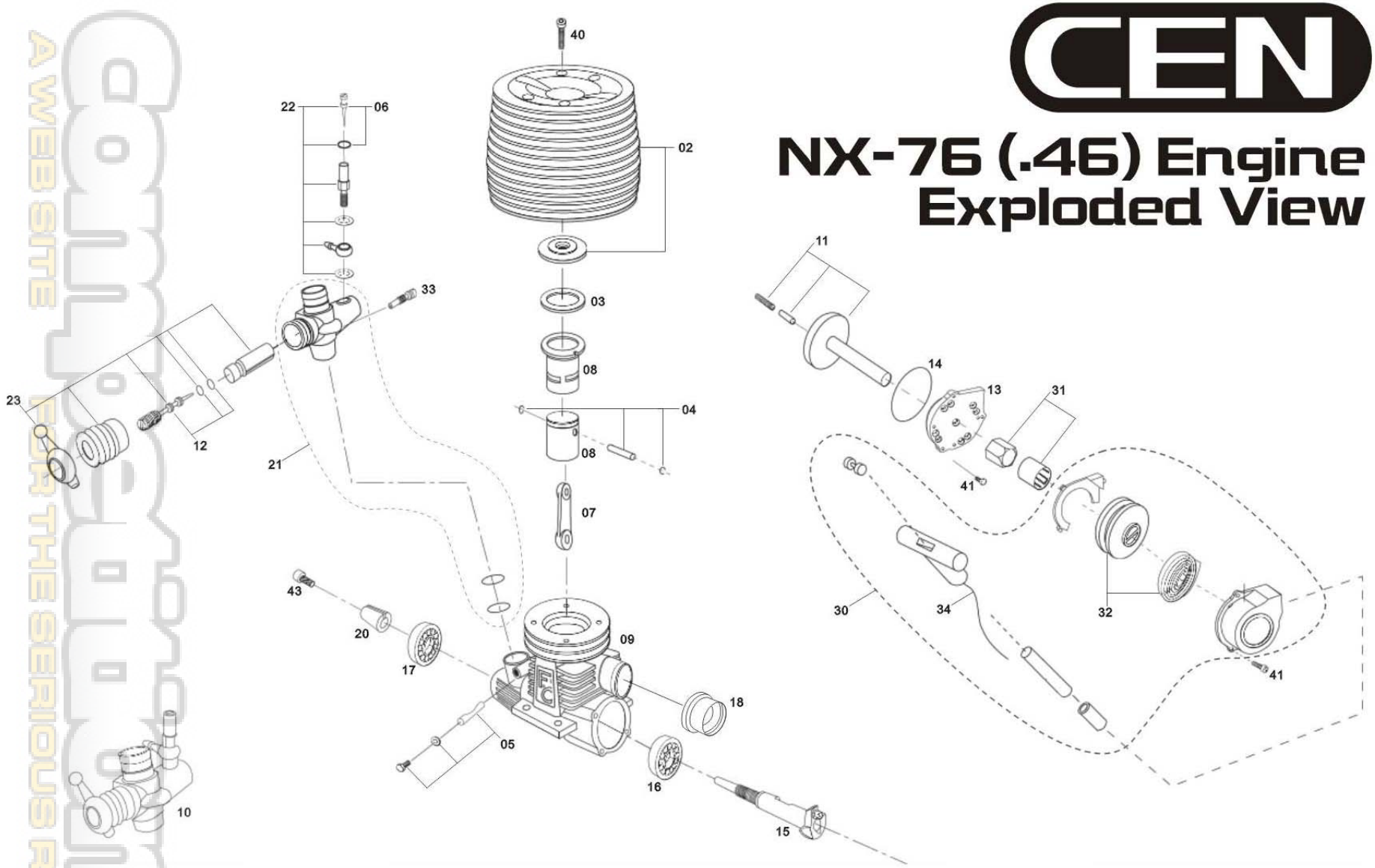
Step3: Turn the transmitter on, the servos should all move to there normal neutral positions.

Testing the SafeGuard's Operation

To test the set-up of the unit turn on both the transmitter and the receiver on the model. Turn the transmitter off and watch the throttle servo. It will move to the position that you had set earlier. The L.E.D. will flash when controlling the servo.

* The LED will flashing when the SafeGuard is activated.
* The SafeGuard will take control if the receiver battery voltage drops below 3.6V. And the SafeGuard will re-set automatically when battery voltage is above 4.3V.

NX-76 (.46) Engine
Exploded View



G70357- 02 Cylinder Head	G70357- 07 Connecting Rod	G70357-12 Slow Needle	G70357- 17 Front Ball Bearing	G70357- 23 Carburetor Slow Needle Set	G70357- 34 Starter Rope
G70357- 03 Cylinder Head Gasket	G70357- 08 Piston and Cylinder	G70357- 13 Rear Cover	G70357- 18 Exhaust Seal Ring	G70357- 30 Recoil Assembling	G70357- 40 Cylinder Head Screw
G70357- 04 Piston pin	G70357- 09 Crank Case	G70357- 14 Rear Cover Gasket	G70357- 20 Drive Parts	G70357- 31 Oneway Hub	G70357- 41 Rear Cover Screw
G70357- 05 Lock Nut for Carb.	G70357- 10 Carburetor	G70357- 15 Crank Shaft	G70357- 21 Carburetor Main Case	G70357- 32 Recoil Spring	G70349- 43 Screw 3x8 cap
G70357- 06 Main Needle	G70357- 11 Oneway Start Shaft	G70357- 16 Rear Ball Bearing	G70357- 22 Carburetor Main Needle Set	G70357- 33 Throttle Stop Screw	

SPARE PARTS

Number	Name	Number	Name
GS001	Differential Case	GS066	Internal Clutch Hub
GS002	Differential Bevel Gear	GS067	Turnbuckles M8x36
GS003	Clutch Shoes	GS068	2-Speed Clutch Shoe Set
GS004	Driving Bevel Gear(9T)	GS069	Shift Lever Set
GS005	Drived Bevel Gear(26T)	GS070	Alum. Manifold(NX-76)
GS006	Internal Trans. Spur Gear(46T)	GS071	Alum. Engine Mount
GS007	Gear Box	GS072	Turnbuckles M4x78
GS008	Flywheel	GS073	Turnbuckles M8x90
GS009	E-ring Pin	GS074	Ball End B7.8
GS010	Wheel Hub	GS075	Differential Gasket
GS011	Side Plate	GS076	Throttle Linkage Set
GS012	Flanged Bushing #3	GS077	Brake Pads
GS013	Lock Block	GS078	Brake Shoes
GS014	Steering Plastic Parts	GS079	2-Speed Clutch Bell
GS015	Shock Shaft	GS080	Alum. 4-piece Tunned Pipe
GS016	Ball B7.8	GS081	Roll-over Bar
GS017	Ball B6.8	GS082	Plastic Parts Set
GS018	Shock Springs	GS083	Rear Toe-in Brace
GS019	Steering Metal Parts	GS084	Over-head Shock Parts Set
GS020	Flanged Bushing #4	GS085	Forward Gear
GS021	Wheel-adaptor	GS086	Reverse Gear
GS022	NX-76 Air Filter	GS087	Steel Spur Gear (43T)
GS023	Alum. Arm Brace	GS088	Steel Spur Gear (39T)
GS024	Silicon Exhaust Coupler	GS089	Pinion Gear(17T)
GS025	Threades Hinge Pins 4x56	GS090	Pinion Gear(21T)
GS026	Threades Hinge Pins 4x73	GS091	Universal Swing Shaft(pair)
GS027	Threades Hinge Pins 3x44	GS092	Dogbone
GS028	Wheel Axles	GS093	Drive Cup
GS029	Differential Drive Cup	GS094	Brake Drive Cup
GS030	Brake Disk	GS101	Genesis Body
GS031	Shock Plastic Parts	G73914	Ball Bearing 8x16x5
GS032	Muffler Mount	G73915	Ball Bearing 10x19x7
GS033	Suspension Arms	G73916	Ball Bearing 6x13x5
GS034	Chrome Wheel Set (pair)	G73917	Ball Bearing 6x10x3
GS035	Genesis Tires (pair)	G70357	Engine NX-76(7.6cc)
GS036	Fuel Tank(220cc)	G70358	Roto-Tech Starter Set
GS037	Side Frame(chassis)	G70359	Back Plate Gear Set
GS038	Radio Box	G70429	Glow Plug #3
GS039	Differential Brake Shaft	G73902	Bearing 5x10x4
GS040	Telescopic Shaft	G73905	Ball 5mm
GS041	Engine plate	GX61	Fuel Tube
GS042	Bumper Set (chrome)	GXS02	Post 33mm
GS043	Universal Joint Ball	CT032	Rod End 6.8
GS044	Shock Tower	FF068	Zip Ties(mid)
GS045	Body Post	FF069	Hook Pins #8
GS046	Adaptor Block	SP20	Ball Studs
GS047	One-way Gear Hub	SP23	Rod End 5.8
GS048	Bulkhead Brace	SP32	Antenna straw
GS050	Two-step Gear	SP50	Zip Ties (small)
GS051	Internal Clutch Gear(31T)	SP51	Hook Pins #6
GS052	Internal One-way Gear(34T)	G82113	Receiver Switch
GS053	Idle Gear Set	G82114	Battery Pack
GS054	Shift Disc	G82120	3CH AM 27MHz Receiver
GS055	Gear Hub	G82121	3CH AM 27MHz Transmitter
GS056	Clutch Gear hub	G84122	High Torque 10kg-cm Servo (metal gear)
GS057	Transmission Gear Box	G84123	High Torque 10kg-cm Reverse Servo (metal gear)
GS059	Alum. Skit Plate	G84124	High Torque 5kg-cm Servo (metal gear)
GS060	Differential Case Cover	G82126	Metal Servo Gear Set
GS061	Main Shaft	G82130	Safeguard
GS062	Gear Shaft	GSS01	4WS Optional Kits (w/10kgs-cm reverse servo)
GS064	Brake Cam Shaft	GSS02	Genesis .46 Support Package(option)
GS065	Reservoir Shock"Small Parts"		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Safeguard
(RTR Version)
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Transmission
"Dimension X" 10
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