NEMESIS 7.7

CEN Racing introduces their newest monster truck, The NEMESIS 7.7. This high performance monster truck is based off of the mighty GENESIS 46 with racing in mind. The NEMESIS is fully stocked with new features that will conquer any competition in its path. The NEMESIS 7.7 is designed for any monster truck enthusiast that seeks racing quality performance from a true bashing monster truck. Durability and performance are the key factors in the development of the massive NEMESIS 7.7. Whether or not, you're racing at your local R/C track or you' re bashing in your backyard, The NEMESIS 7.7 has all you' ll ever need in a monster truck, and then some.

The NEMESIS 7.7 will also include an FM MX3 radio system from Airtronics / Sanwa. Two 144 oz servos are included for ensured steering and throttle response.

NEMESIS Fast Facts

Length	: 23.1in(587mm)
Width	: 18in(458mm)
Wheelbase	: 15.63in(397mm)
Ground Clearance	: 3in(76mm)
Tire Size	: D7.48xW3.54in(D190xW90mm)
Wheel Size	: D4.84in(D123mm)
Engine	: 7.6cc
Fuel Tank	: 220cc
Weight	: 15.4 lbs(7 Kgs)

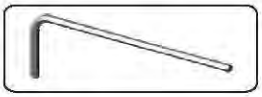
CEN

www.cenracing.cm

G105009
20060801

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

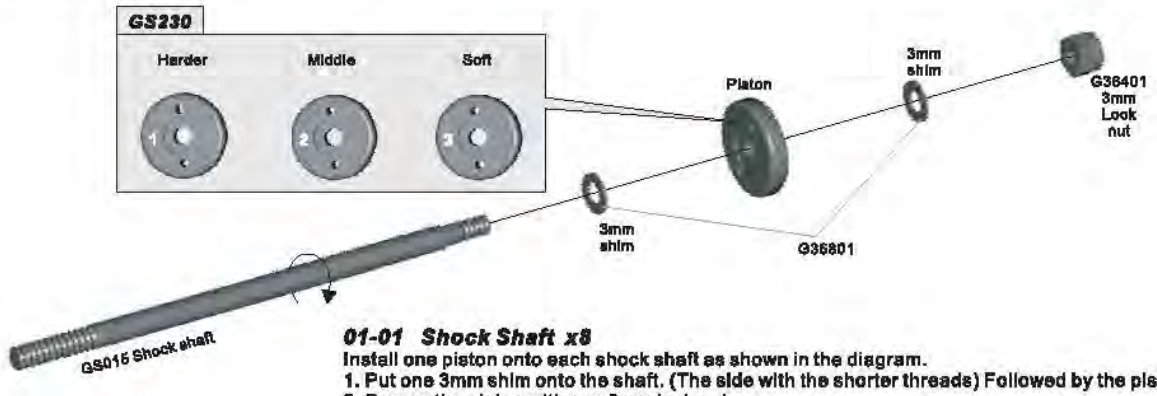
Liquid dish soap

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.

01 Shock Assembly

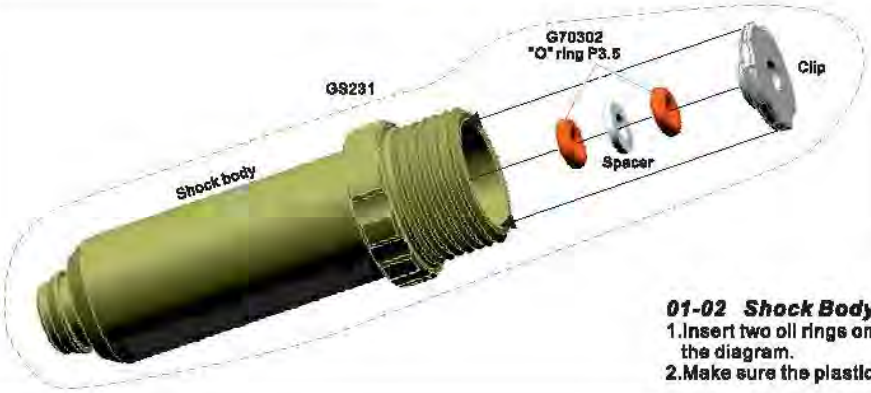


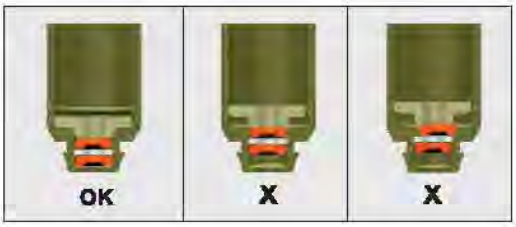
01-01 Shock Shaft x8

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.





01-02 Shock Body x8

1. Insert two oil rings one spacer 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.

01-03 Shock Body x8

1. Insert the shock shaft through the shock body.
2. Thread the eyelet onto the shock shaft.

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

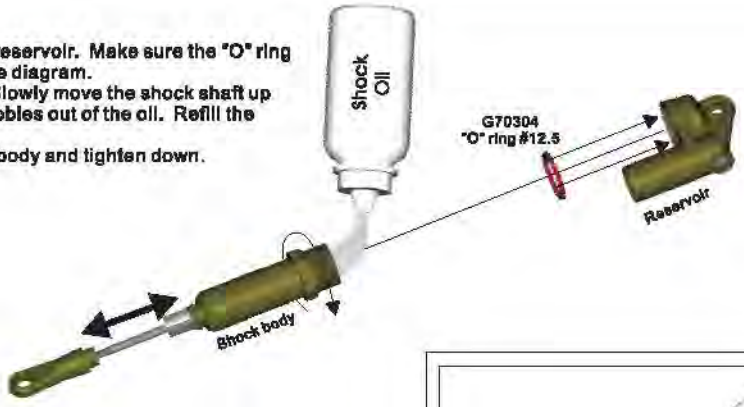
01-04 Reservoir x8

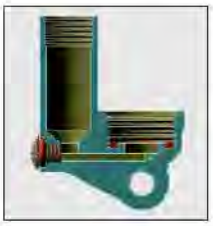
1. First close off the bleeder valve with one P4 "O" ring and 5x6 button head screw.
2. Repeat for each reservoir.

01 Shock Assembly

01-05 Shock Body x8

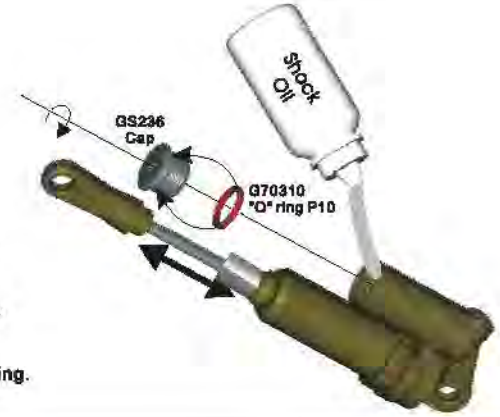
1. Insert one #12.5 "O" ring into each reservoir. Make sure the "O" ring is completely seated as shown in the diagram.
2. Fill the shock body with shock oil. Slowly move the shock shaft up and down until you get all the air bubbles out of the oil. Refill the shock to the top with oil if needed.
3. Screw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

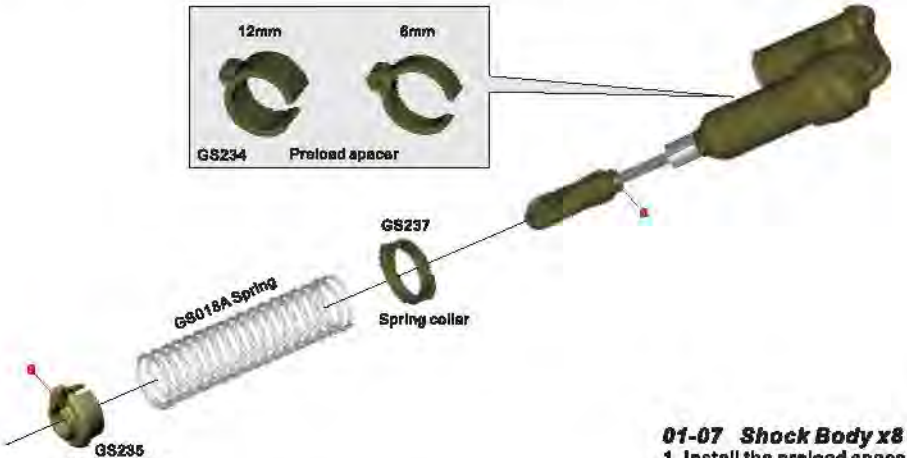


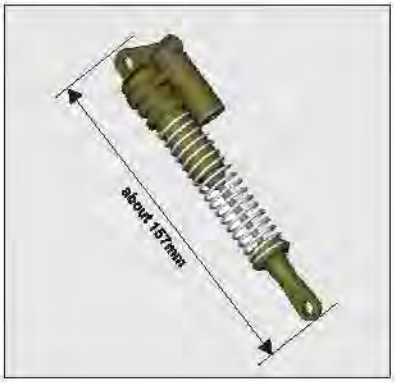


01-06 Shock Body x8

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.

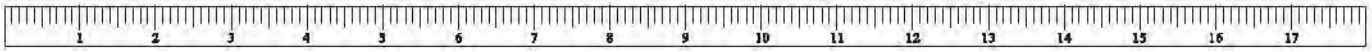




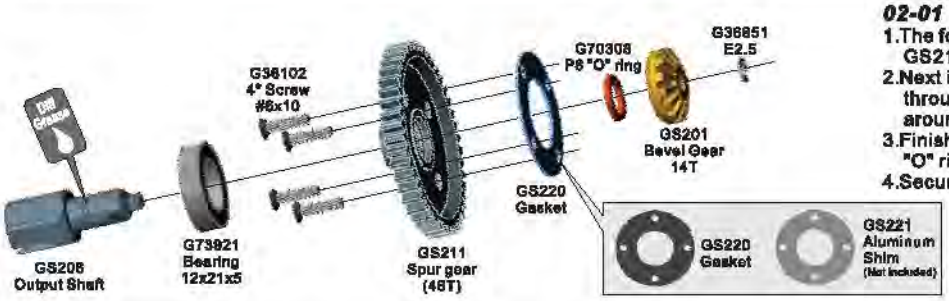


01-07 Shock Body x8

1. Install the preload spacers, spring collar, spring, followed by the spring retainer as pictured.



02 Transmission Assembly



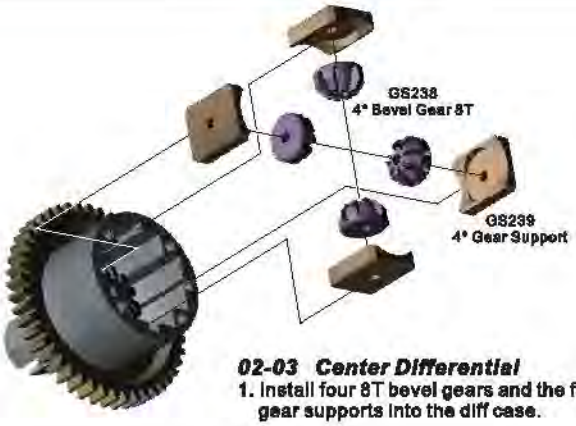
02-01 Center Differential

1. The four #6x10 screws must be inserted through the GS211 spur gear first.
2. Next insert the GS208 output shaft with 12x21x5 bearing through the spur gear. * Apply a small amount of grease around the output shaft as shown.
3. Finish the step at shown with the GS220 gasket, P8 "O" ring, 14T bevel gear.
4. Secure assembly with one E2.5 clip.

02 Transmission Assembly

02-02 Center Differential

1. Screw the four #6x10 screws down evenly until tight. Thread lock is highly recommended on these screws.

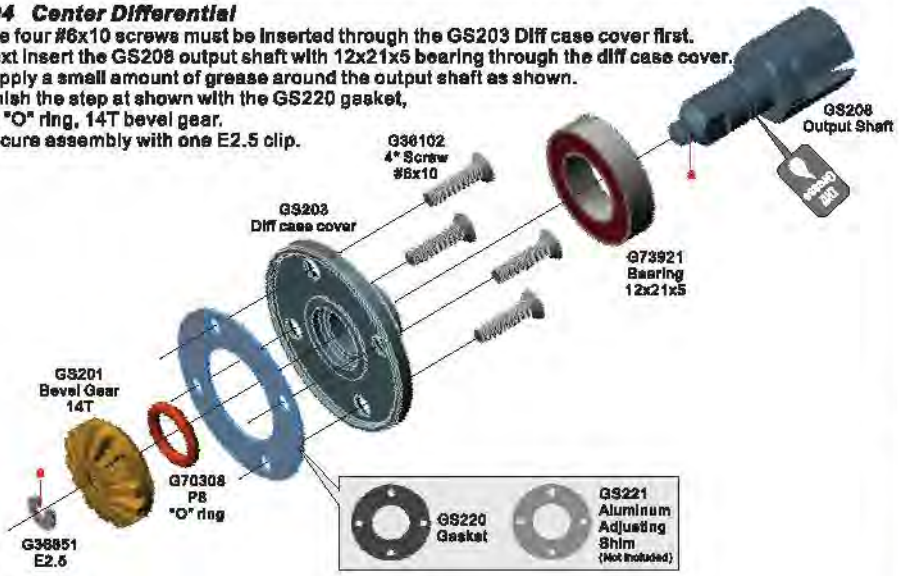


02-03 Center Differential

1. Install four 8T bevel gears and the four square gear supports into the diff case.

02-04 Center Differential

1. The four #6x10 screws must be inserted through the GS203 Diff case cover first.
2. Next insert the GS208 output shaft with 12x21x5 bearing through the diff case cover.
   * Apply a small amount of grease around the output shaft as shown.
3. Finish the step at shown with the GS220 gasket, P8 "O" ring, 14T bevel gear.
4. Secure assembly with one E2.5 clip.



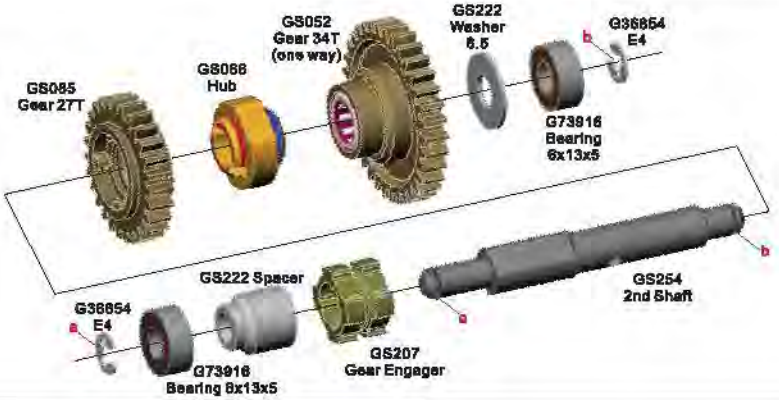
02-05 Center Differential

1. Fill the differential case just above the gears with differential grease.
2. Secure the diff case cover assembly with four #6x10 screws. Tighten them down evenly until tight. * Thread lock is highly recommended

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

02-06 2nd shaft Unit

1. Assemble the 2nd shift unit as shown in picture. Make sure both end of the shaft are secure by E4 "E" clips



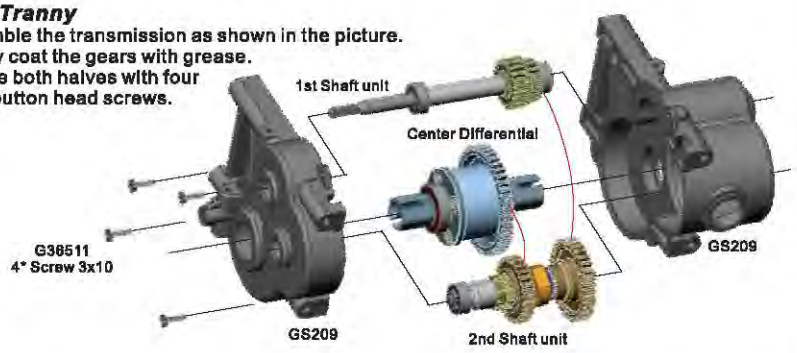
02-07 1st shaft Unit

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 G73916 bearing 6x13x5

02 Transmission Assembly

02-08 Tranny

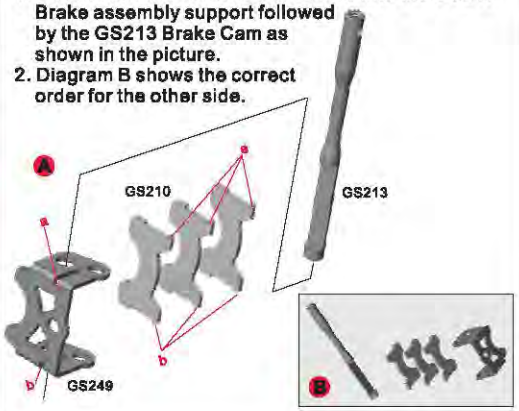
1. Assemble the transmission as shown in the picture.
2. Lightly coat the gears with grease.
3. Secure both halves with four 3x10 button head screws.



02-09 Tranny

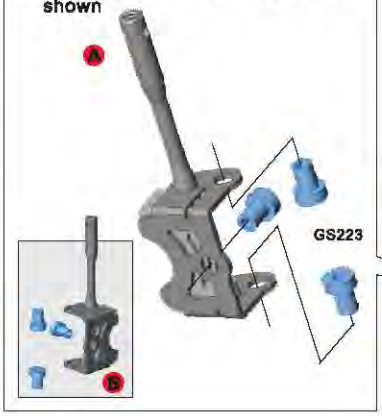
02-10 Brake Unit

1. Put three of the GS210 brake shoes into the GS249 Brake assembly support followed by the GS213 Brake Cam as shown in the picture.
2. Diagram B shows the correct order for the other side.



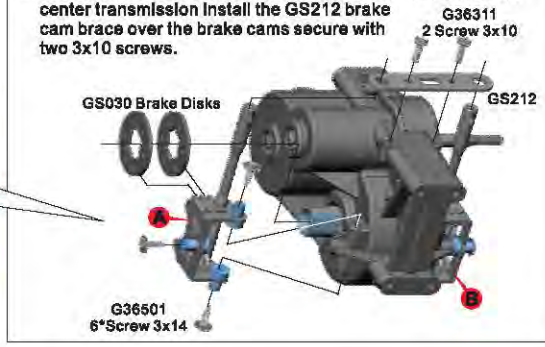
02-11 Brake Unit

1. Insert three mounting supports as shown



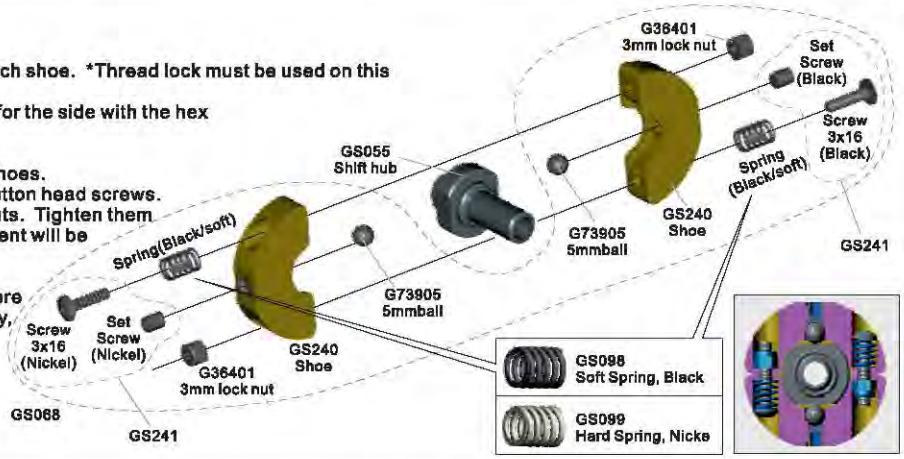
02-12 Brake Unit

1. Install the two GS030 brake disks between the brake shoes. Make sure each disk is in between two shoes.
2. Next align the hex in the disks with the hex on the outdrive.
3. Carefully aligning all the parts slide all the way onto the outdrive and secure with three 3x14 screws. Repeat for the other set.
4. With both the front and rear brake assemblies secured to the center transmission install the GS212 brake cam brace over the brake cams secure with two 3x10 screws.



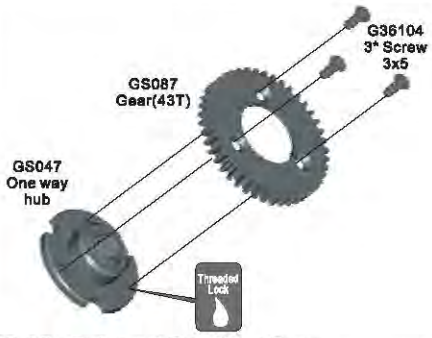
02-13 External Expanding Clutch(2nd Speed)

1. Assemble the clutch as shown in the diagram.
2. Start by threading the setscrew into the center of each clutch shoe. *Thread lock must be used on this setscrew to keep it in place.
3. Next insert one 3mm lock nut into each clutch shoe. Lock for the side with the hex where the lock nut will sit.
4. Place one 5mm ball into the center if each shoe.
5. Next place the GS055 shift hub into the center of the two shoes.
6. Slide one black, (soft) spring, onto each of the two 3x16 button head screws.
7. Thread the 3x16 screws, with springs, into the 3mm locknuts. Tighten them up just enough to hold the shoes to the hub. Final adjustment will be made later.
8. Adjust the setscrews so the ball just touches the shift hub. Slowly tighten the setscrew while looking at the center where the shoes and hub meet. Once you see the shoe lift slightly, loosen 1/8 turn. Repeat for the other shoe.
9. After you have adjusted both setscrews tighten down 3x16 screws all the way being careful not to crush the springs. Then loosen each screw 5 turns. Minor adjustment may be desired for personal shift point preference.



02-14 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.
3. Thread lock is required on these screws.

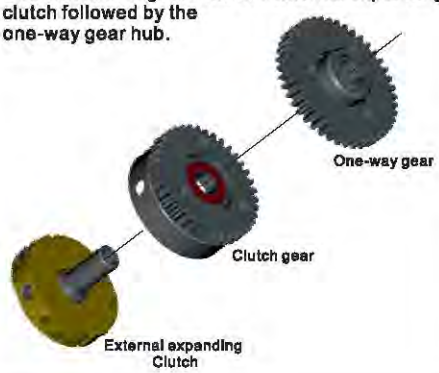


02-15 External One Way Gear

1. Attach the spur gear to the GS047 one-way hub using three 3x5 screws.
2. Thread lock is required on these screws

02-16 External Shift Unit

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

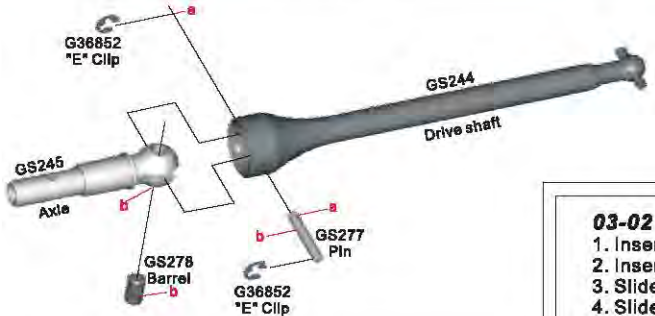


02 Transmission Assembly

02-17 Tranny

1.Insert one 2.5x10 pin through the main shaft as shown.
2.Slide external shift unit assembly onto the main shaft.
3.Secure with one "T" bolt. * Don't tighten too much or it will bind the assembly.

03 Suspension Assembly



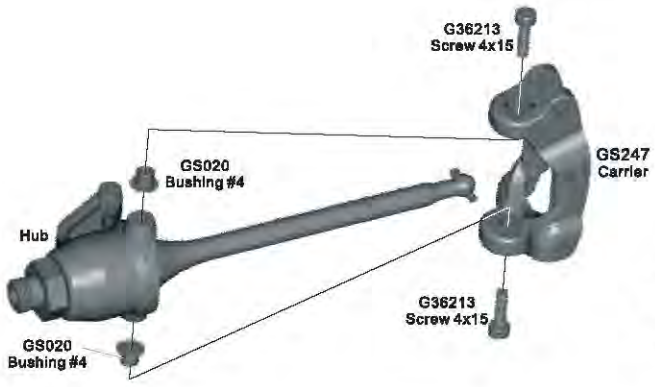
03-01 Drive Shaft Assembly x4

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.

03-02 Hub and Driveshaft Assembly x4

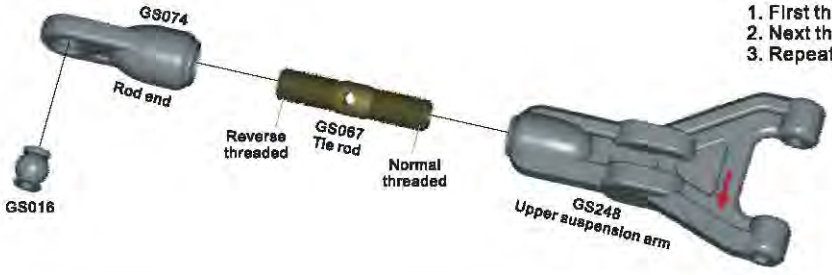
1. Insert one 10x19x5 bearing on the inside of the GS246 hub.
2. Insert one 8x16x5 bearing on the outside of the GS246 hub.
3. Slide the wheel axle through the hub and bearings as shown in the picture
4. Slide on the wheel hub and secure by inserting one 3x22 pin and set screw.
5. Repeat for each hub.

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



03-03 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.



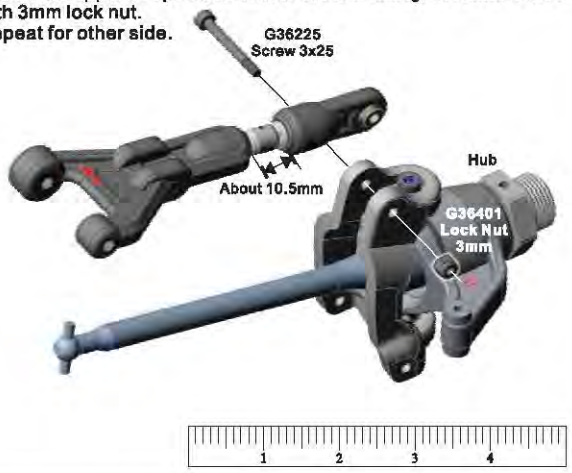
03-04 Upper Suspension Arm Assembly x4

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 GS248 upper suspension arm.
3. Repeat for the other side.

03 Suspension Assembly

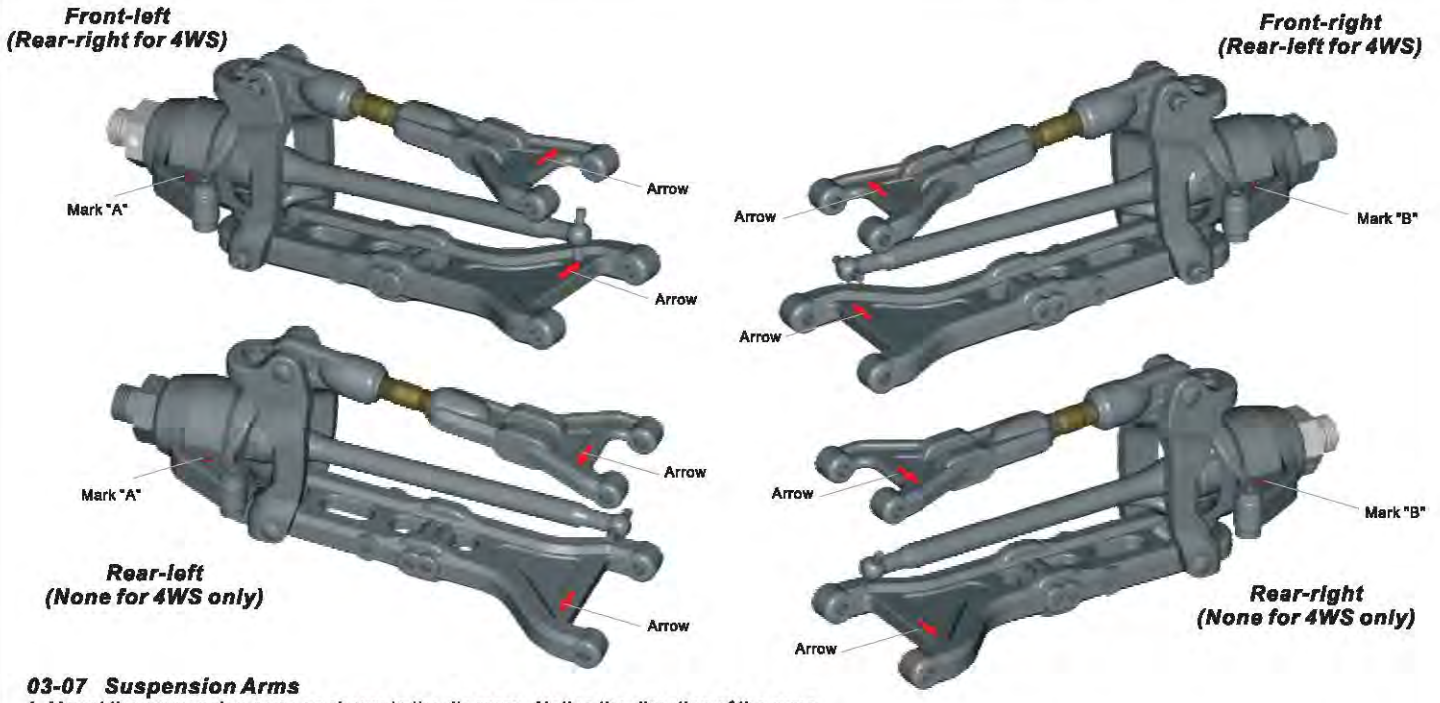
03-05 Suspension Arm Assembly (Front-right)

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



03-06 Suspension Arm Assembly (Front-right)

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



03-07 Suspension Arms

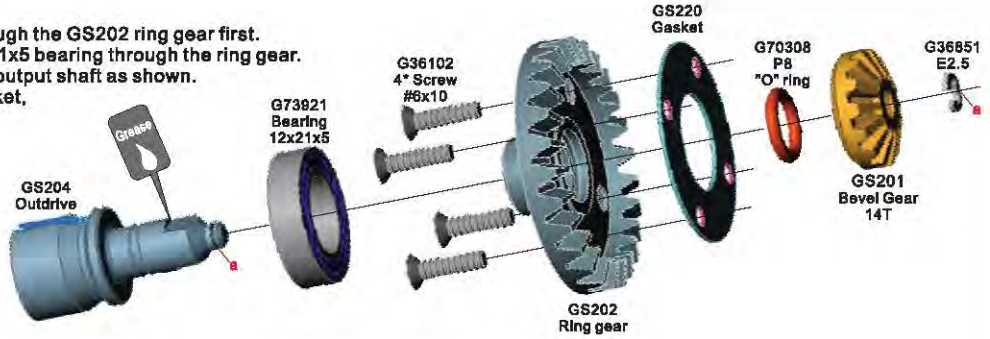
1. Mount the suspension arms as shown in the diagram. Notice the direction of the arms.

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.

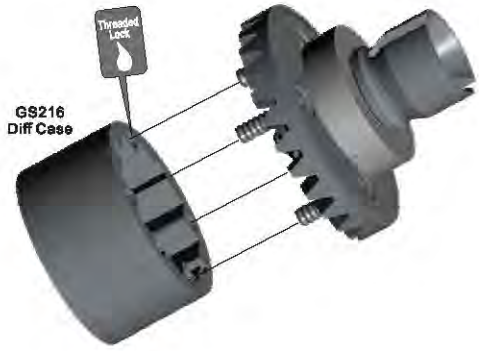
04 Differential Assembly

04-01 Differential

1. The four #6x10 screws must be inserted through the GS202 ring gear first.
2. Next insert the GS204 output shaft with 12x21x5 bearing through the ring gear.
   * Apply a small amount of grease around the output shaft as shown.
3. Finish the step at shown with the GS220 gasket, P8 "O" ring, 14T bevel gear.
4. Secure assembly with one E2.5 clip.

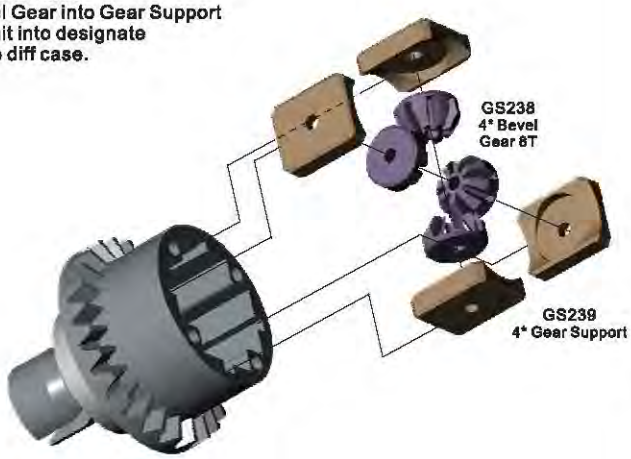


04 Differential Assembly

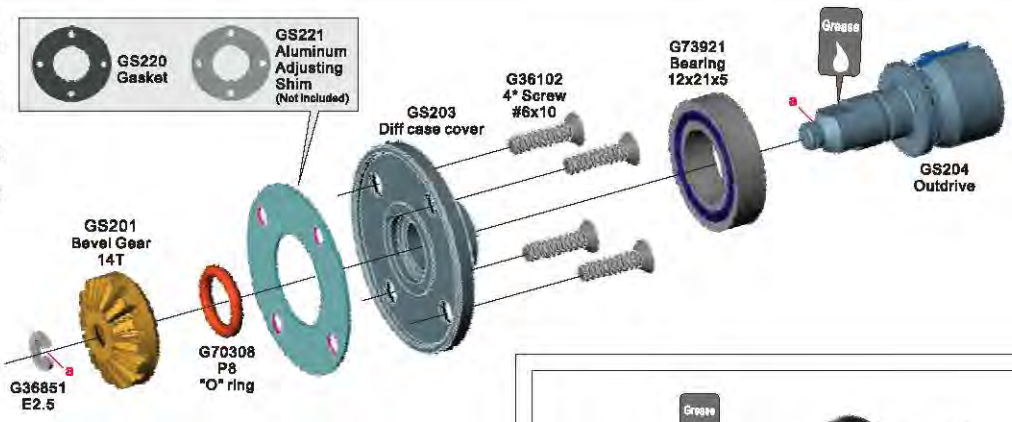


04-02 Differential
1. Screw the four #6x10 screws down evenly until tight. Thread lock is highly recommended on these screws.

04-03 Differential
1.Install Bevel Gear into Gear Support
2.Slide the unit into designate slots on the diff case.

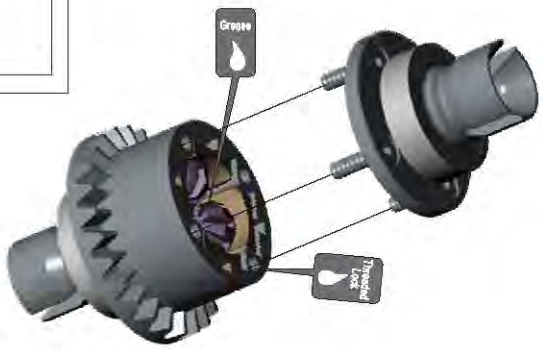


04-04 Differential
1. The four #6x10 screws must be inserted through the GS203 Diff case cover first.
2. Next insert the GS204 output shaft with 12x21x5 bearing through the diff case cover.
   * Apply a small amount of grease around the output shaft as shown.
3. Finish the step at shown with the GS220 gasket, P8 "O" ring, 14T bevel gear.
4. Secure assembly with one E2.5 clip.



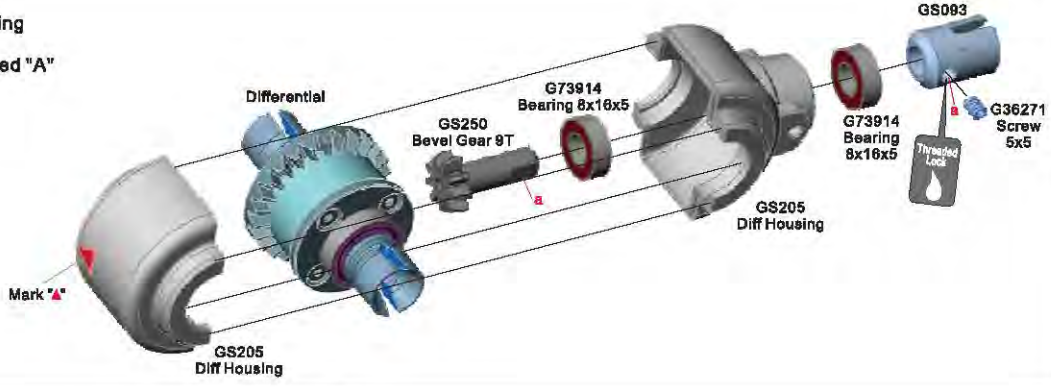
04-05 Differential
1. Fill the differential case just above the gears with differential grease.
2. Secure the diff case cover assembly with four #6x10 screws. Tighten them down evenly until tight. * Thread lock is highly recommended.

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



05 Gear Box Unit

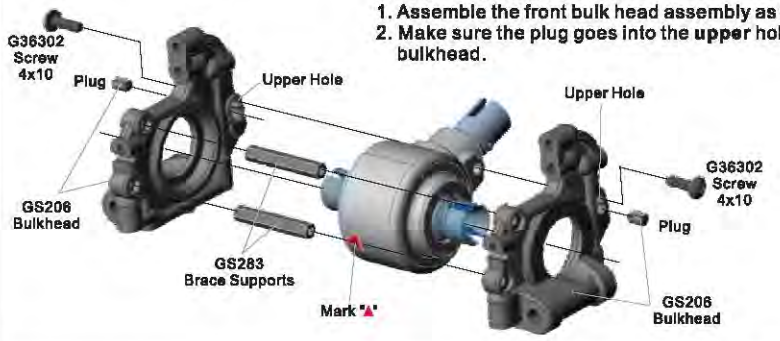
05-01 Gear Box Unit
1.Slide 2 8x16x5 bearing onto the diff housing
2.Slide on Bevel Gear and Differential
3.Close the diff case with diff housing marked "A"
4.Slide GS093 onto the Bevel Gear shaft
5.Apply Threaded Lock on the 5x5 screw

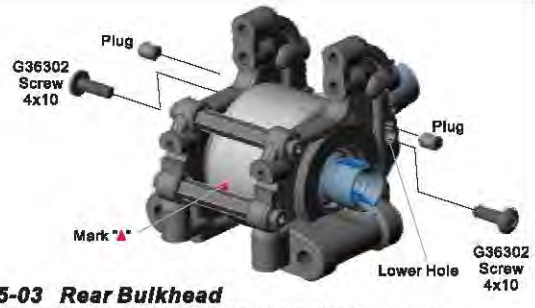


05 Gear Box Unit

05-02 Front Bulkhead

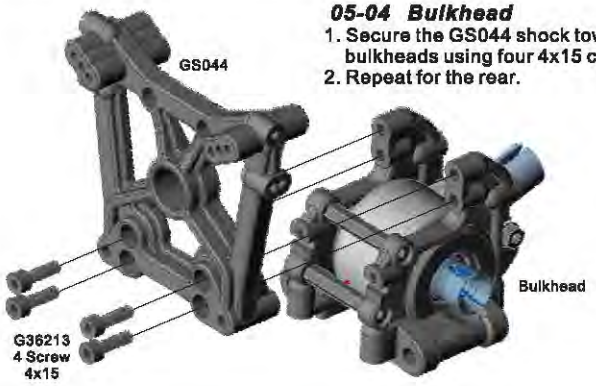
1. Assemble the front bulk head assembly as shown.
2. Make sure the plug goes into the **upper** hole on the bulkhead.





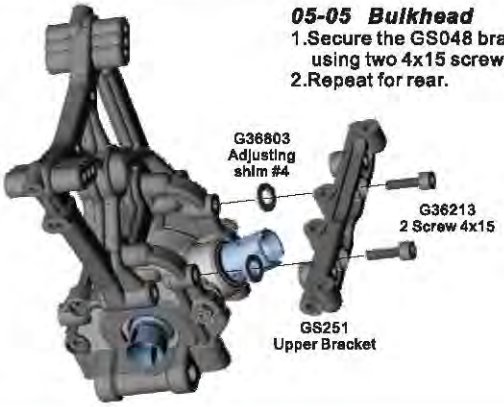
05-03 Rear Bulkhead

1. Assemble the rear bulk head assembly as shown.
2. Make sure the plug goes into the **lower** hole on the bulkhead.



05-04 Bulkhead

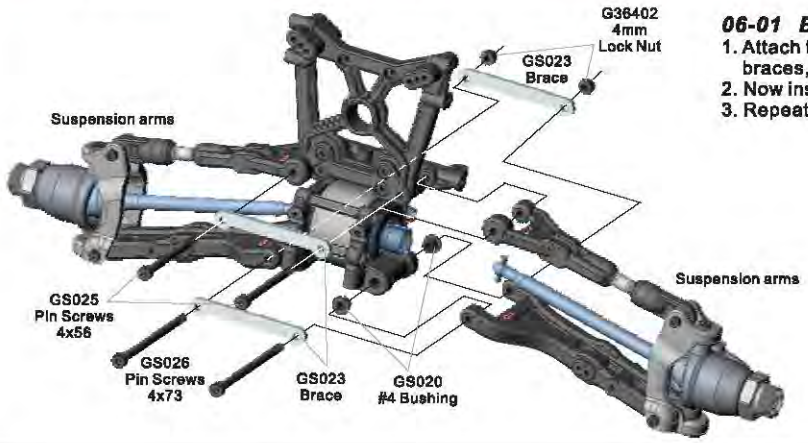
1. Secure the GS044 shock tower to the bulkheads using four 4x15 cap screws.
2. Repeat for the rear.



05-05 Bulkhead

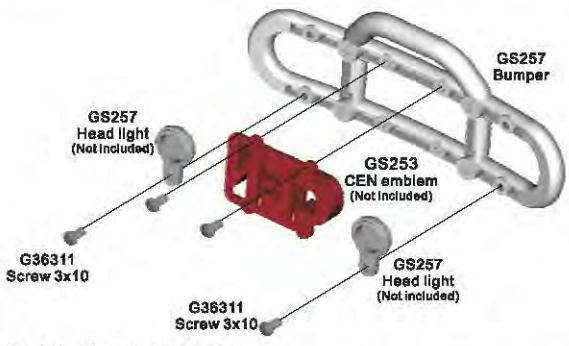
1. Secure the GS048 bracket to the bulkhead using two 4x15 screws and #4 shims.
2. Repeat for rear.

06 Front/Rear End



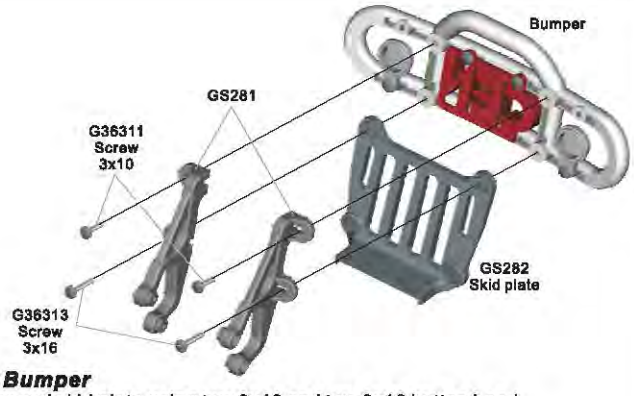
06-01 Bulkhead

1. Attach the suspension arms using two GS026 pin screws, two aluminum braces, followed up with lock nuts.
2. Now install the upper suspension arms and braces using GS025 pin screws.
3. Repeat for the rear.



06-02 Front Bumper

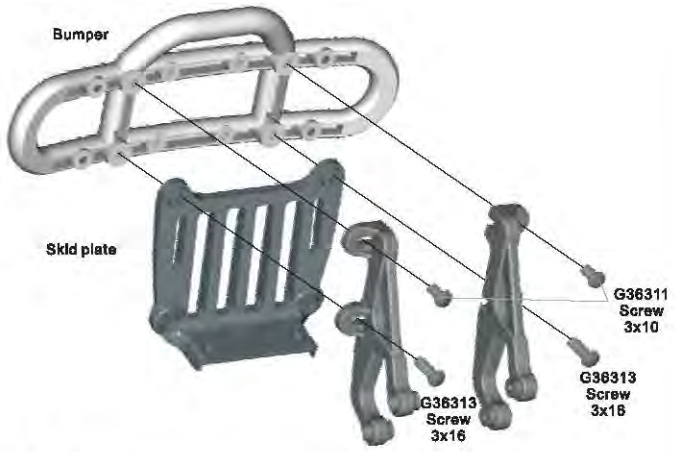
1. Attach the CEN emblem and head lights using 3x10 button head screws to the front bumper only.



06-03 Front Bumper

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.

06 Front/Rear End

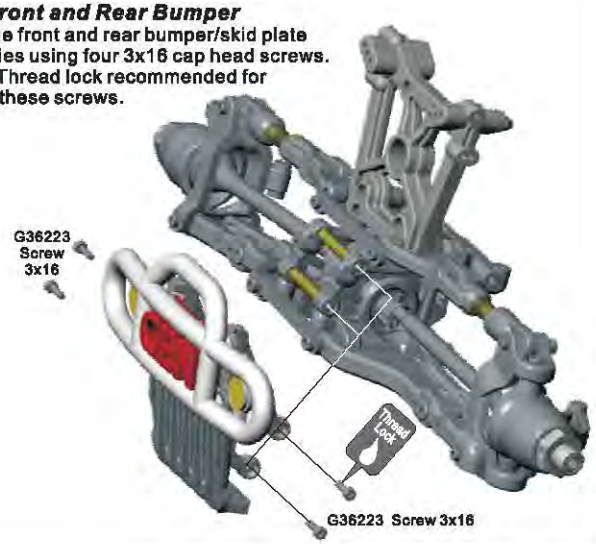


06-04 Rear Bumper (GS042)

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

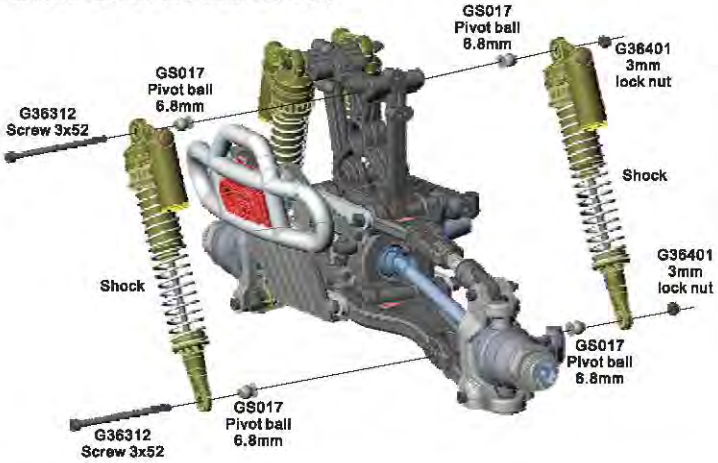
06-05 Front and Rear Bumper

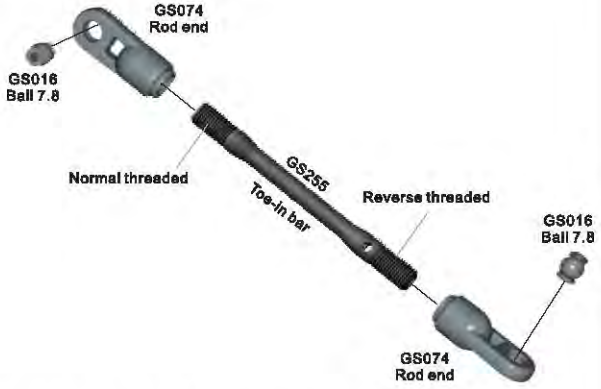
1. Attach the front and rear bumper/skid plate assemblies using four 3x16 cap head screws.
   Notice: Thread lock recommended for these screws.



06-06 Front and Rear Shocks

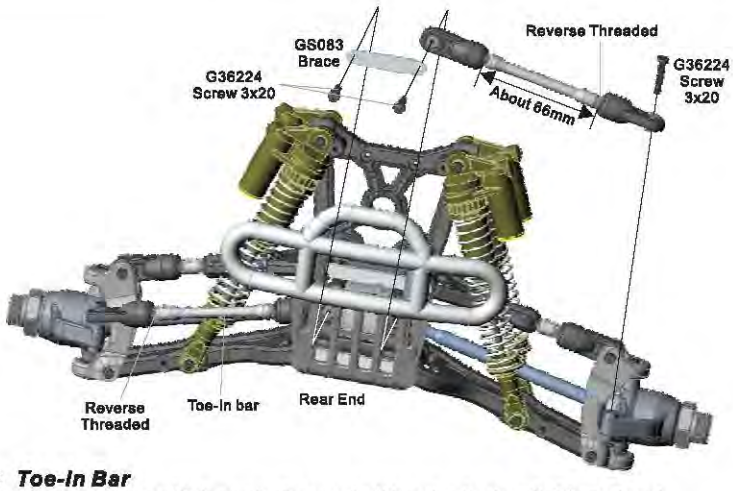
1. Press in one shock mount pivot ball into the upper and lower eyelets for each shock.
2. Attach two shocks to each suspension arm using two 3x52 screws and two 3mm lock nuts.





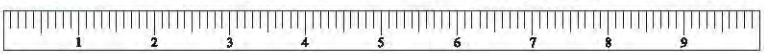
06-07 Toe-In Bar x2

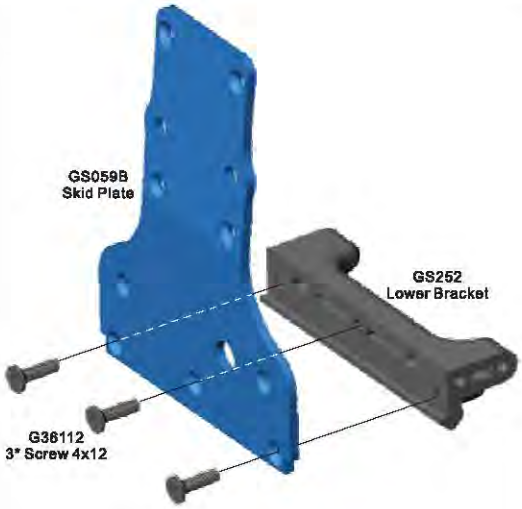
1. Thread the GS074 rods ends onto the rear GS255 toe-in bars.
2. Press one GS016 pivot bushing into each rod end.
   Notice: Carefully look at the eyelet holes. Insert bushing into open side.



06-08 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 easieradjustment.
2. Secure the outer side of the bar to the rear spindle using two 3x20 cap head screws.



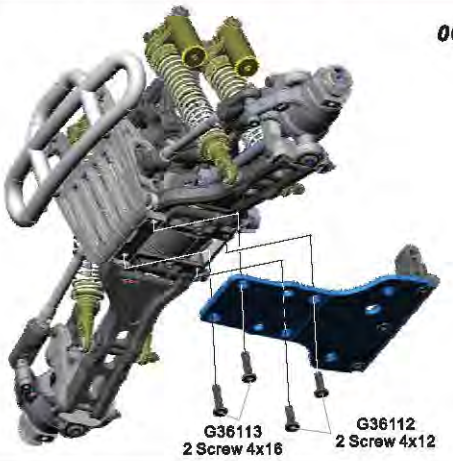


06-09 Lower Bracket x2

1. Mount one GS048 bracket onto front and rear GS059B skid plates using three 4x12 flat head screws.

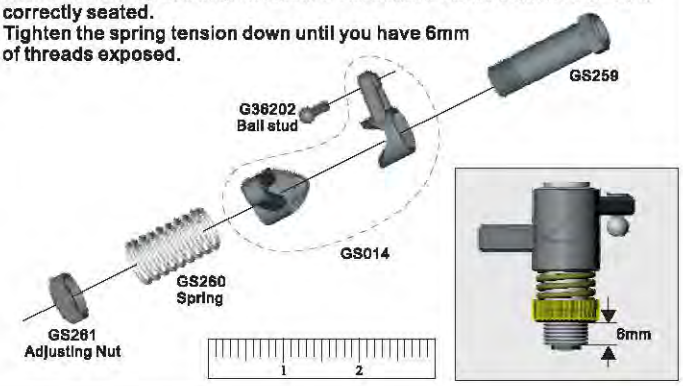
06 Front/Rear End

06-10 Rear Skid Plate



06-11 Servo Saver

1. Screw ball stud into the saver
2. Assemble the servo saver as shown. Make sure the hex on the GS259 is correctly seated.
3. Tighten the spring tension down until you have 6mm of threads exposed.

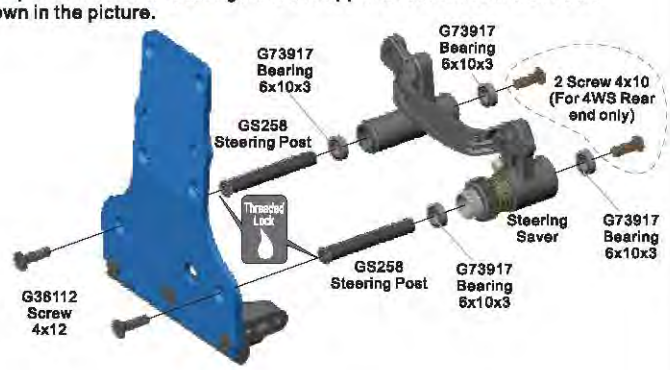


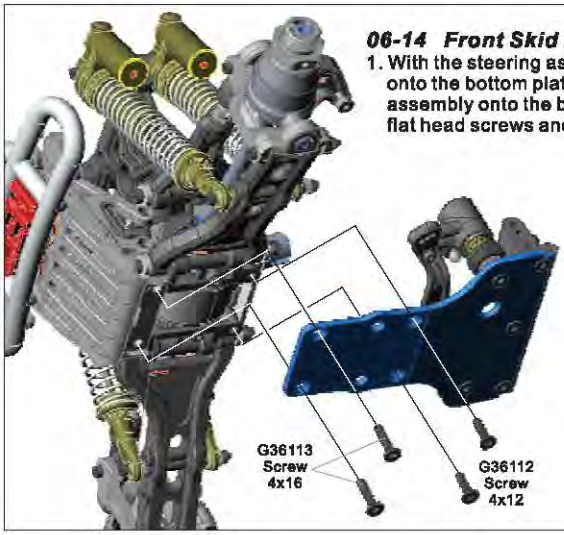
06-12 Steering Bell Crank

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

06-13 Servo Saver

1. Attach two GS258 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.



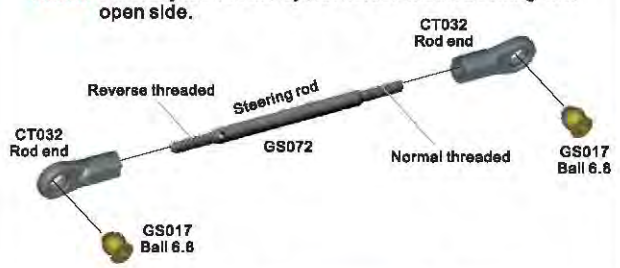


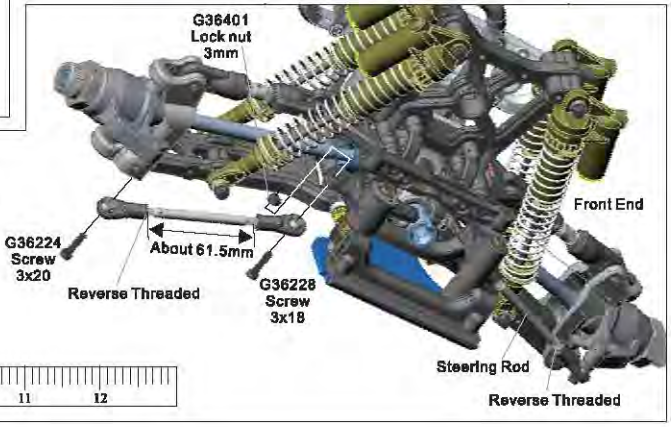
06-14 Front Skid Plate

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.

06-15 Steering Rod Assembly x2

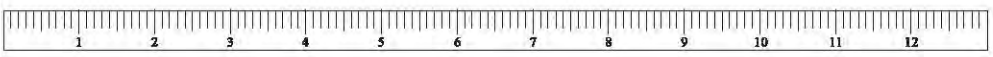
1. Thread two CT032 into two GS072 steering rods.
2. Press in one pivot bushing(Ball 6.8) into each rod end.
   Notice: Carefully look at the eyelet holes. Insert bushing into open side.





06-16 Steering Rods

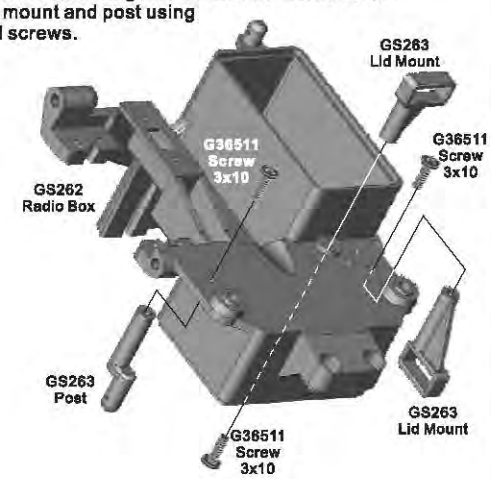
1. First mount the steering rods to the bell cranks using two 3x18 caps screws and 3mm lock nuts. The steering rod should be mounted to the bottom side of the bell cranks.
2. Next mount the outer side of the steering rod to the spindles using two 3x20 cap head screws.



07 Radio Box

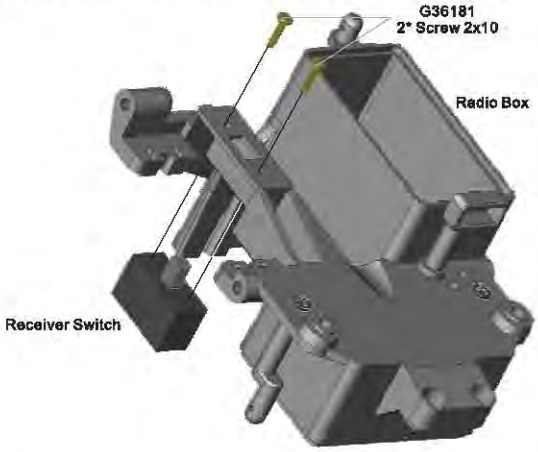
07-01 Radio Box (GS038)

1. Attach the lid mount to the box using one 3x10 button head screw.
2. Mount the second lid mount and post using two 3x10 button head screws.



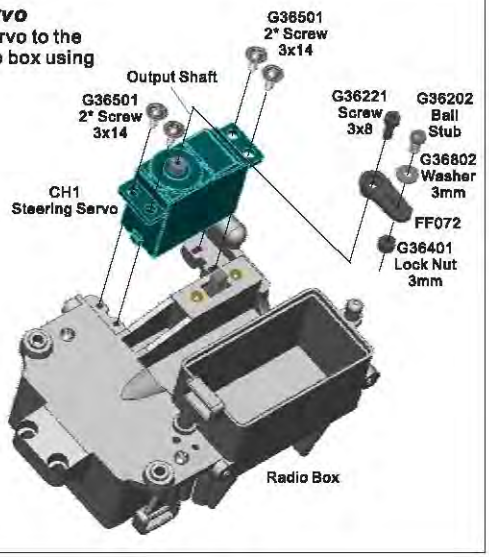
07-02 Radio Box

1. Mount the G82113 on/off switch with plate using two 2x10 screws



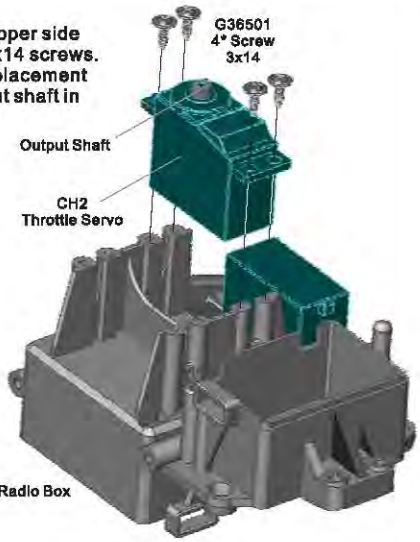
07-03 Steering Servo

1. Mount the steering servo to the underside of the radio box using four 3x14 screws.



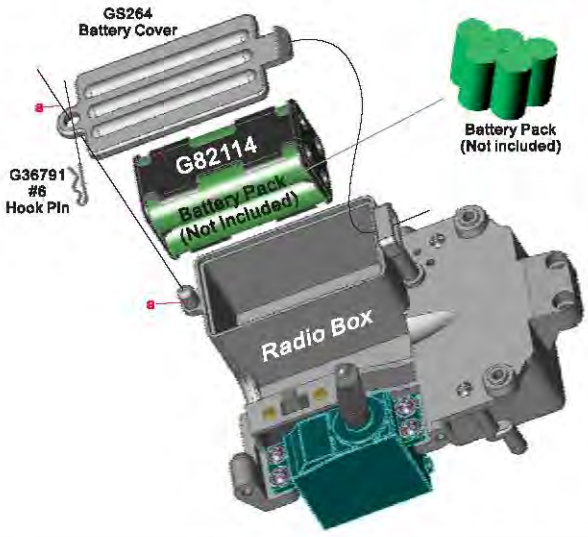
07-04 Throttle Servo

1. Mount throttle servo to the upper side of the radio box using four 3x14 screws.
   Notice: Pay attention to the placement of each servos output shaft in the diagram



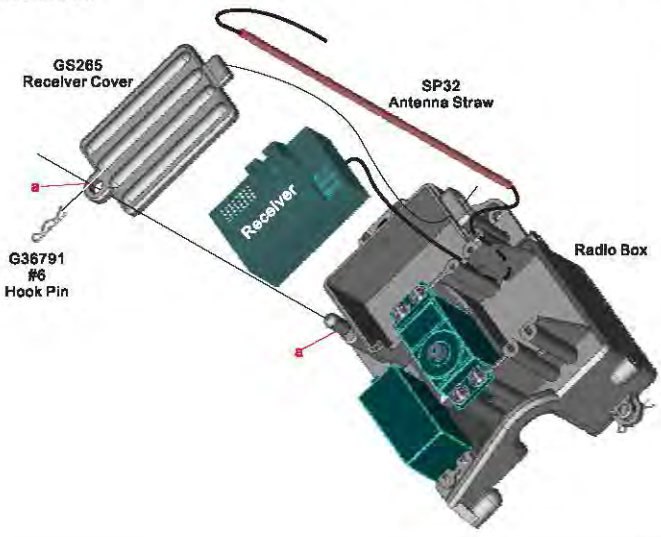
07-05 Battery Compartment

1. Install four fresh AA batteries into the G82114 battery pack.
2. Feed the plug through the outlet hole on the inside of the battery compartment.
3. Mount and secure GS264 Battery cover with one G36791 clip.

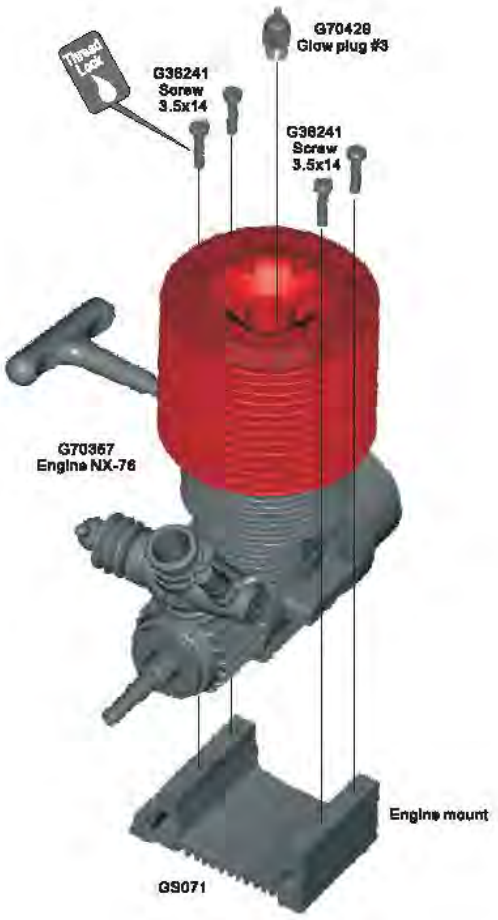


07-06 Receiver Compartment

1. Feed the antenna wire through the outlet hole located on the inside of the receiver compartment.
2. Mount and secure the GS265 receiver cover with one G36791 clip.
3. Gently slide the antenna wire up through the SP32 antenna straw and press into mount.



08 Engine



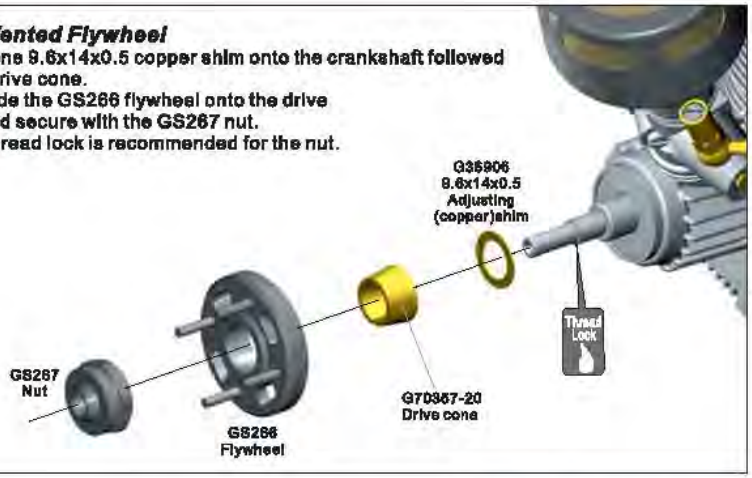
08-01 Engine Mount

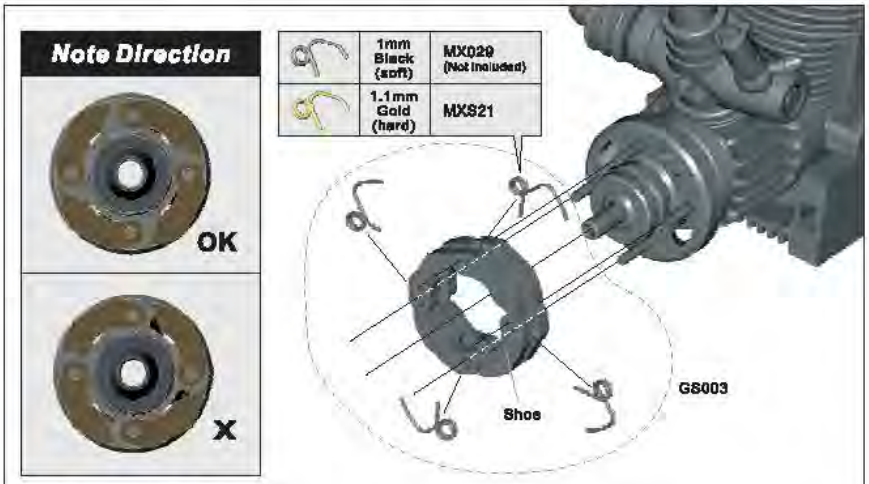
1. Mount the engine to the engine mount using four 3.5x14 cap head screws.
   Notice: Thread lock recommended on these screws.

08-02 Vented Flywheel

1. Install one 9.6x14x0.5 copper shim onto the crankshaft followed by the drive cone.
2. Next slide the GS266 flywheel onto the drive cone and secure with the GS267 nut.

Notice: Thread lock is recommended for the nut.



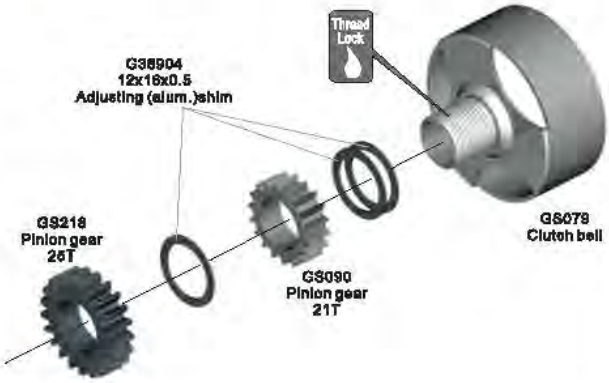


08-03 Clutch Shoes

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.

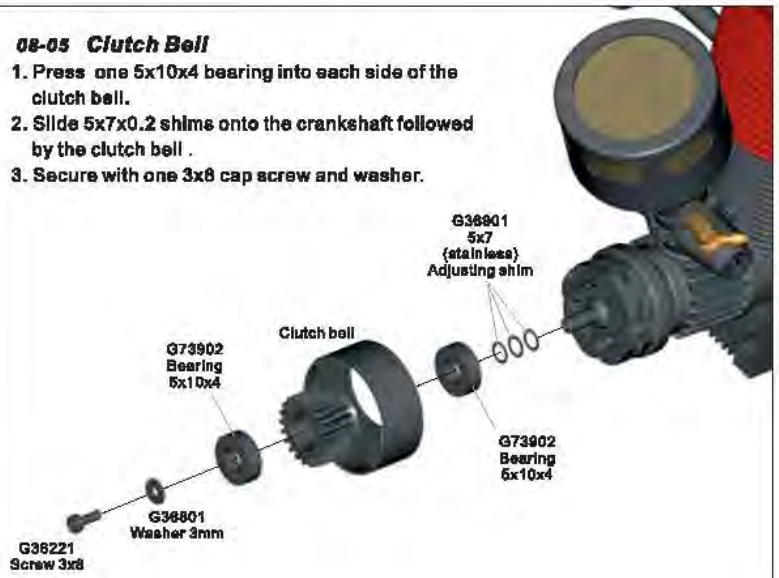
08-04 Clutch Bell

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.



08-05 Clutch Bell

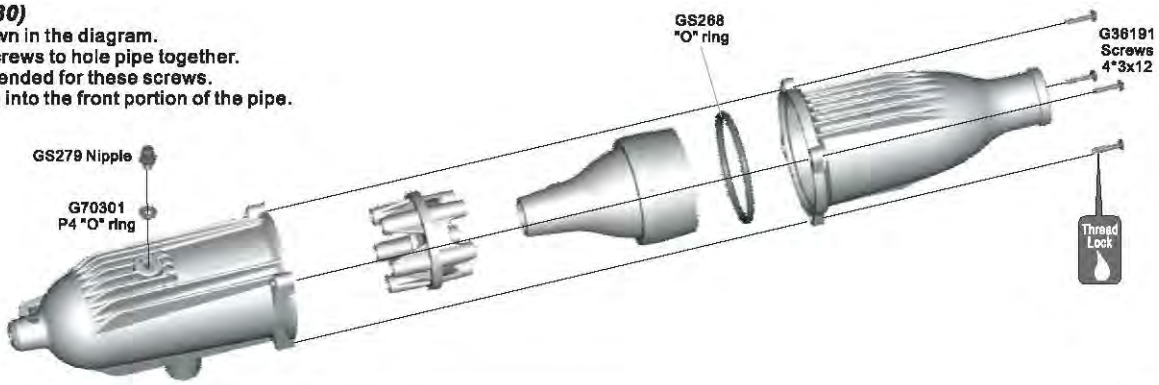
1. Press one 5x10x4 bearing into each side of the clutch bell.
2. Slide 5x7x0.2 shims onto the crankshaft followed by the clutch bell .
3. Secure with one 3x8 cap screw and washer.



08 Engine

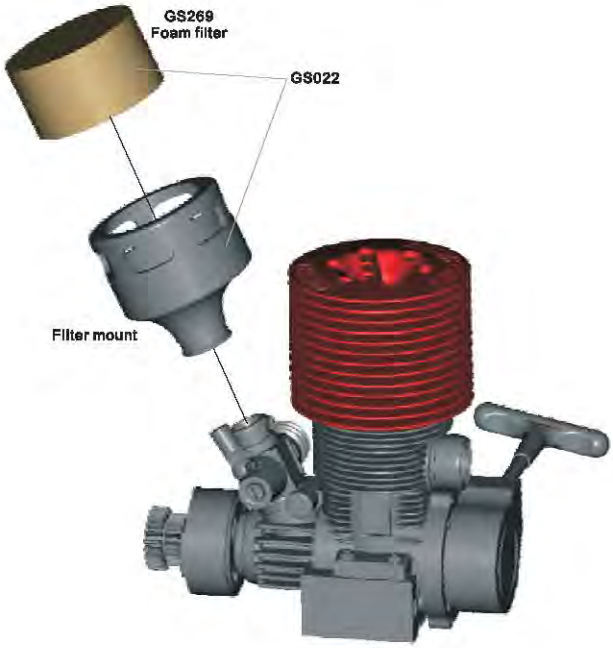
08-06 Muffler Pipe (GS080)

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.



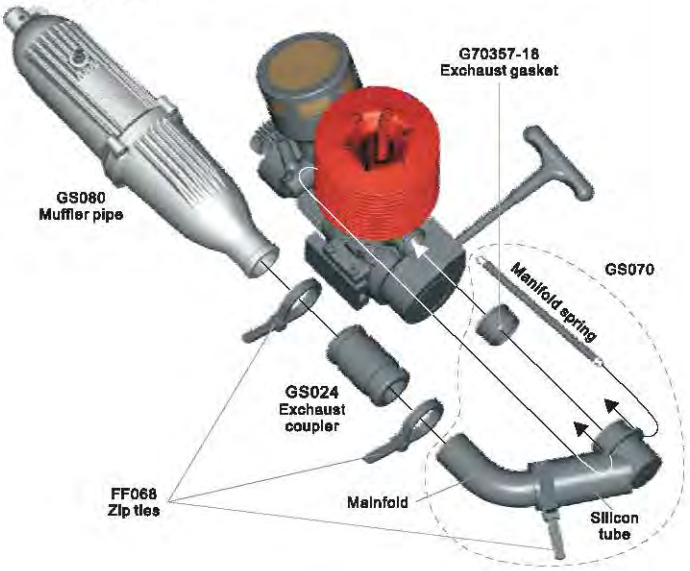
08-07 Air Filter

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



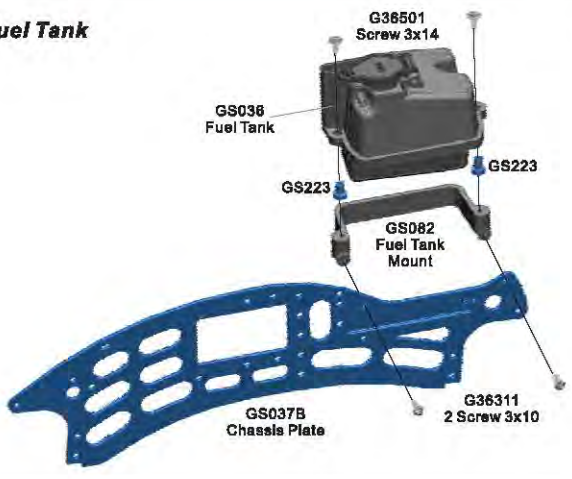
08-08 Muffler Pipe

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.

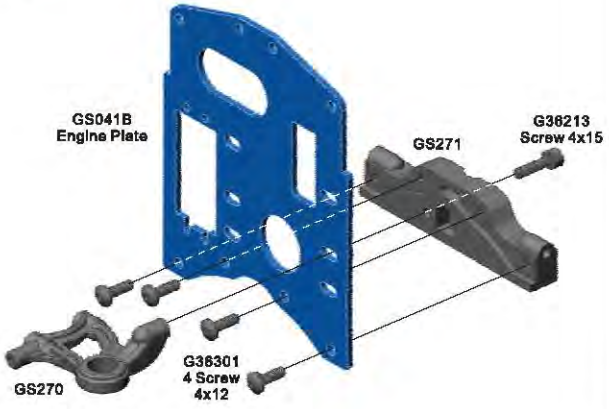


09 Mid

09-01 Fuel Tank



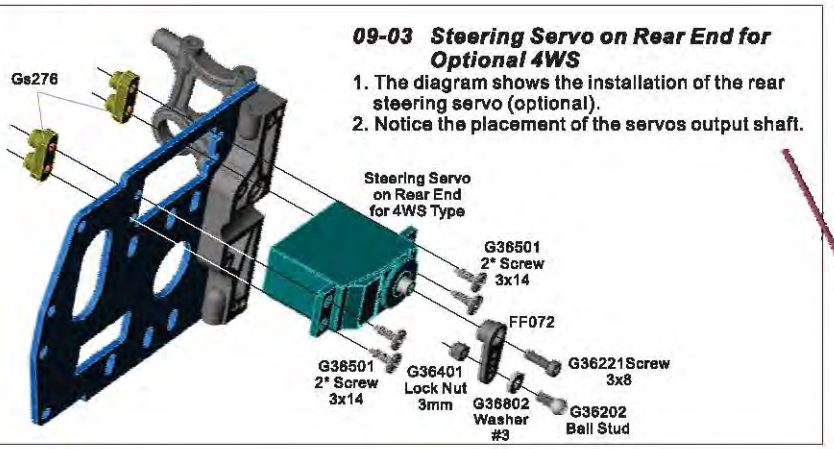
09-02 Engine Plate

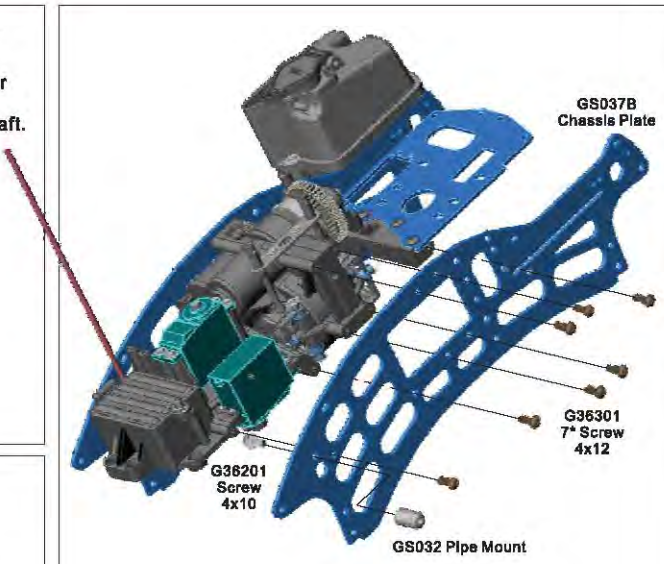


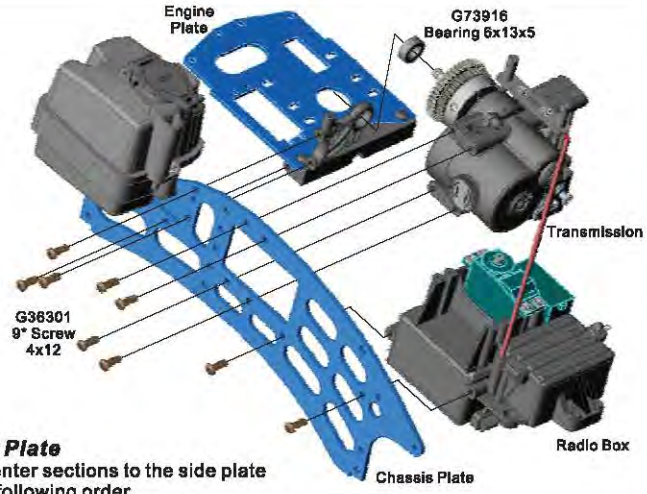
09 Mid

09-03 Steering Servo on Rear End for Optional 4WS

1. The diagram shows the installation of the rear steering servo (optional).
2. Notice the placement of the servos output shaft.







09-04 Chassis Plate

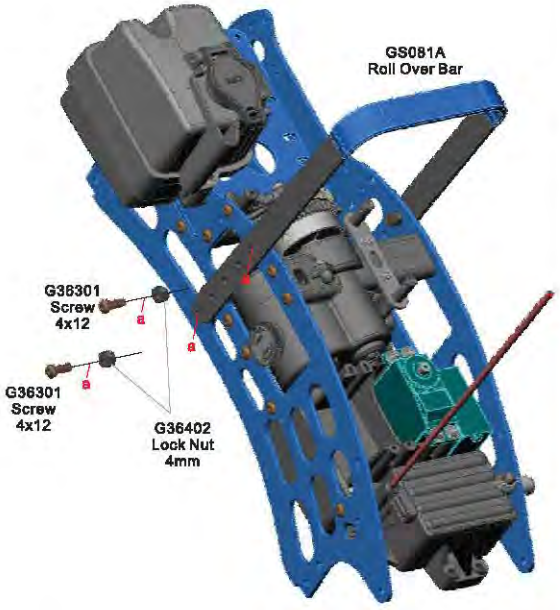
1. Assemble the center sections to the side plate as shown in the following order.
2. 1st Radio Box, 2nd Transmission, 3rd Engine plate.

09-05 Chassis Plate

1. Attach the GS092 pipe mount to the left side plate using one 4x10 screw.
2. Secure the side plate to the main chassis assembly using seven 4x12 screws.

09-06 Roll Over Bar

1. Mount the GS081A roll over bar using four 4x12 button head screws and four 4mm locknuts.

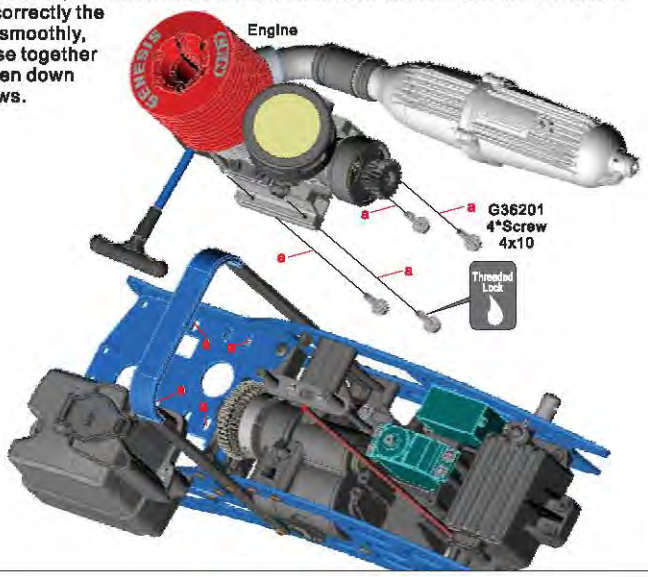


09-07 Engine

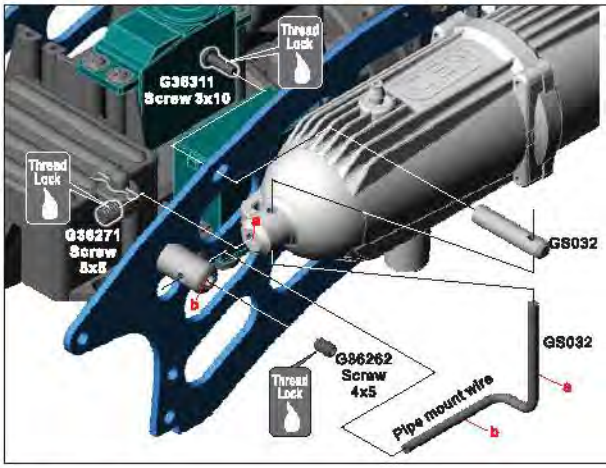
1. Mount the massive .46 engine to the engine plate using four 4x10 hexagonal head crews. Gear mesh will need to be set. *Notice:* Thread lock is recommended on all these screws.

<u>Setting Proper Gear Mesh</u>

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.



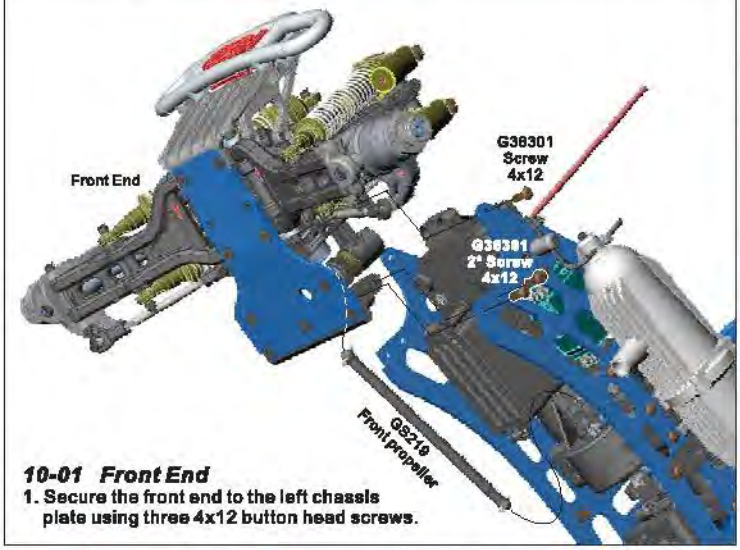
09 Mid



09-08 Muffler Mount

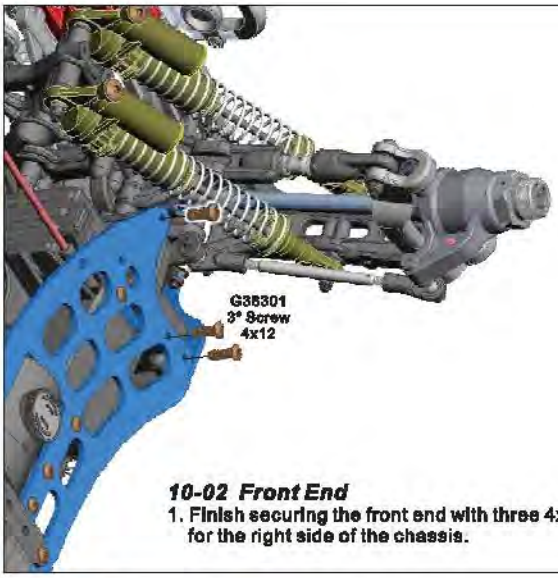
1. First slide the pipe mount wire through the pipe mount hole. Secure it with the 4x6 set screw.
2. Next slide the pipe mount wire through the end of the muffler. Secure it with the 5x6 set screw.

10 Frame



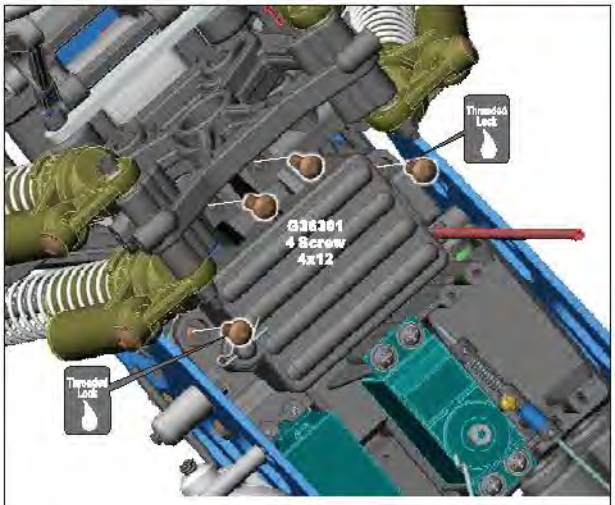
10-01 Front End

1. Secure the front end to the left chassis plate using three 4x12 button head screws.



10-02 Front End

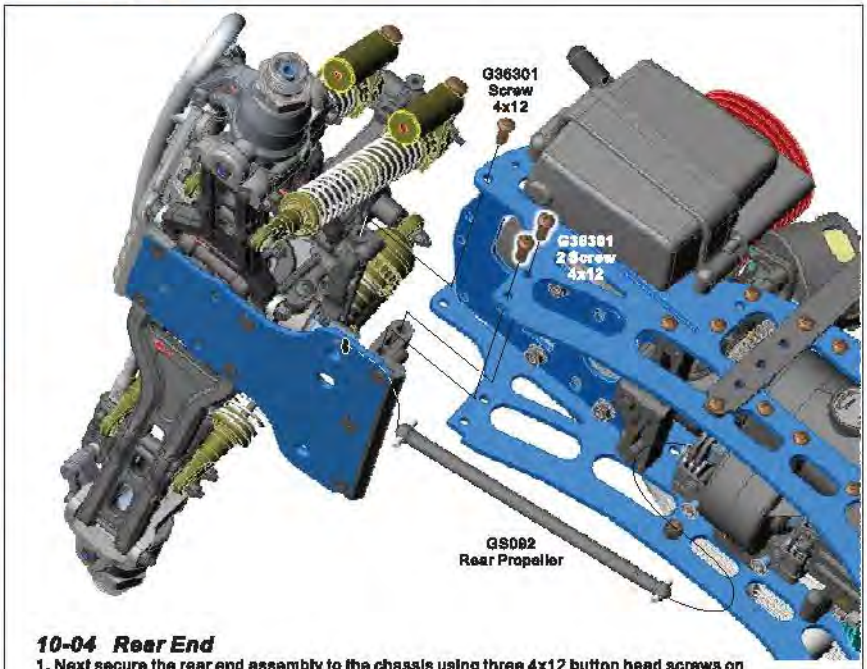
1. Finish securing the front end with three 4x12 head screws for the right side of the chassis.



10-03 Front End

1. Secure the front side of the radio box using four 4x12 screws as shown in the picture.

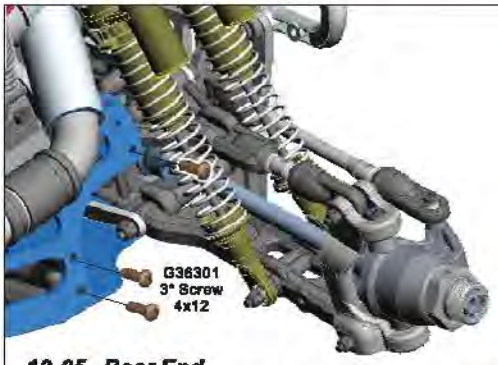
Notice: Thread lock is recommended for the two 4x12 screws that thread into the steering posts.



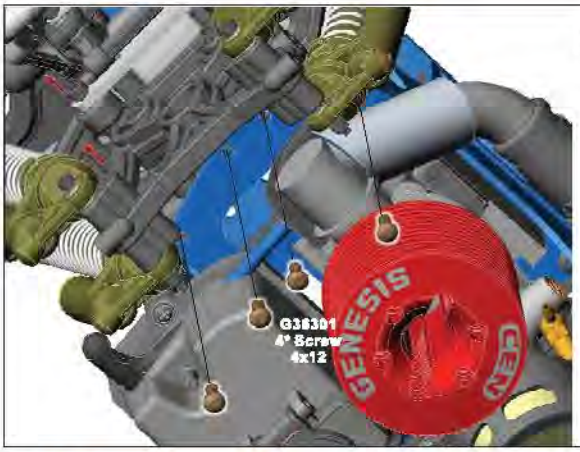
10-04 Rear End

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

10 Mid

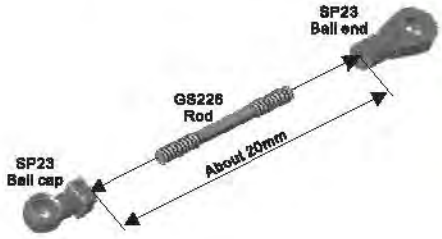


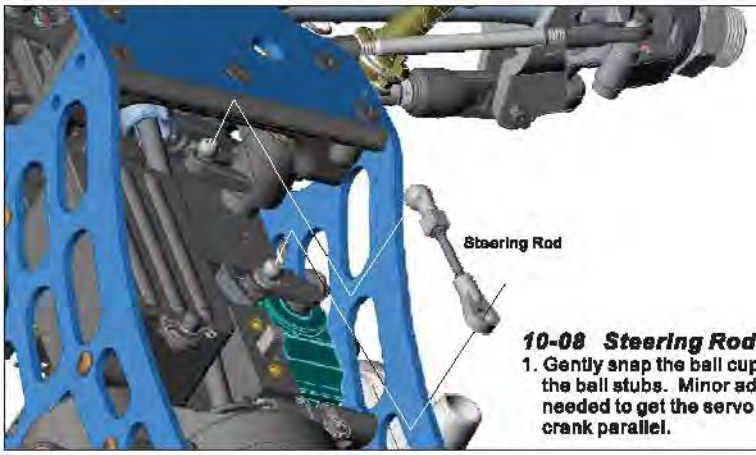
10-05 Rear End
1. Secure the left side using three 4x12 button head screws.



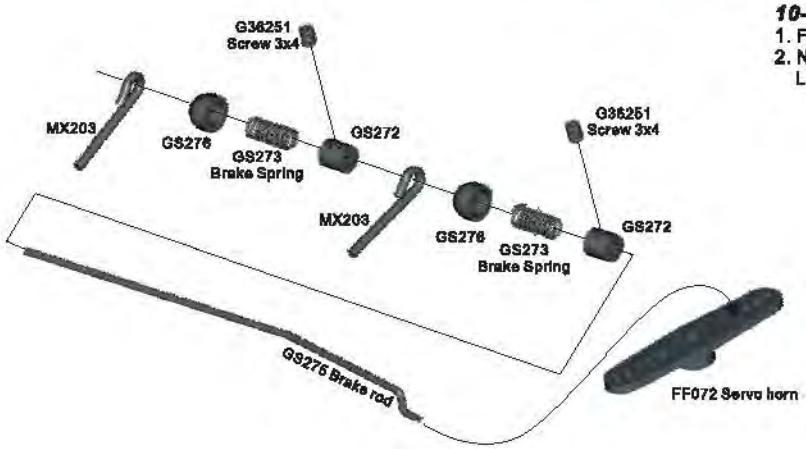
10-06 Rear End
1. Secure the rear of the engine mounting plate using four 4x12 button head screws as shown.

10-07 Steering Rod
1. Screw the call cup and the ball end on equally until you get a distance of 20mm between the ends of each cup.



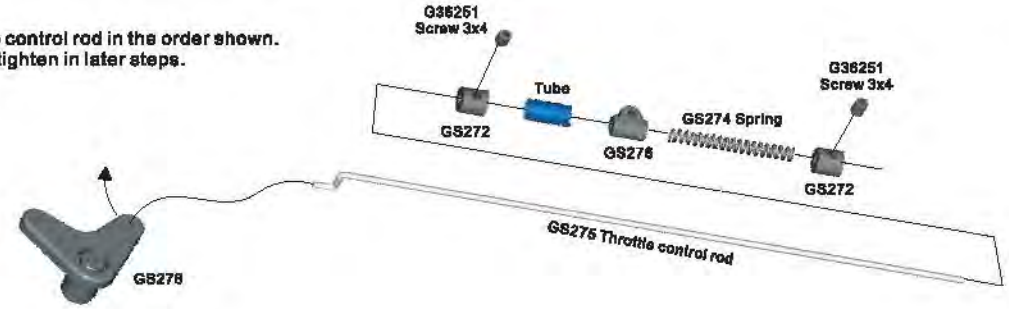


10-08 Steering Rod
1. Gently snap the ball cup and ball end onto the ball stubs. Minor adjusting may be needed to get the servo arm and the bell crank parallel.



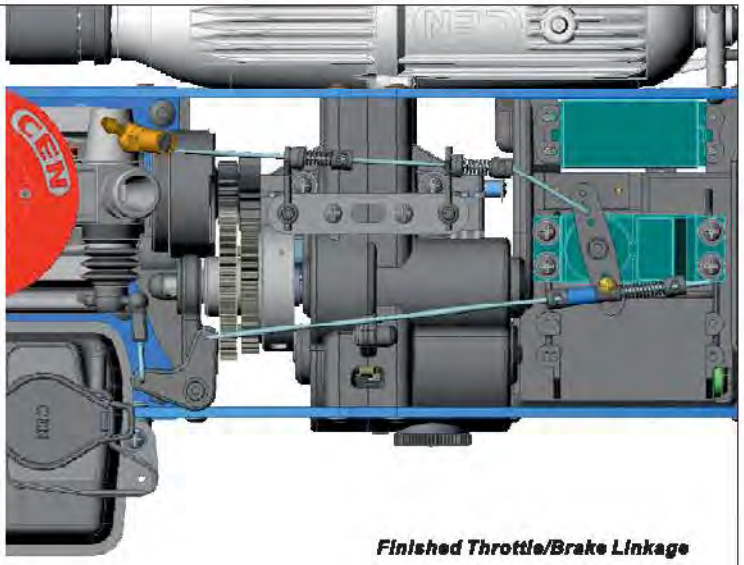
10-09 Brake Linkage
1. First insert the brake rod into the second hole of the servo horn.
2. Next slide the hardware onto the rod in the order shown in the diagram. Leave the setscrews loose, will adjust in later steps.

10-10 Throttle Linkage
1. Slide the throttle hardware onto the throttle control rod in the order shown. Leave the setscrews loose, will adjust and tighten in later steps.



10-11 Carburetor Arm

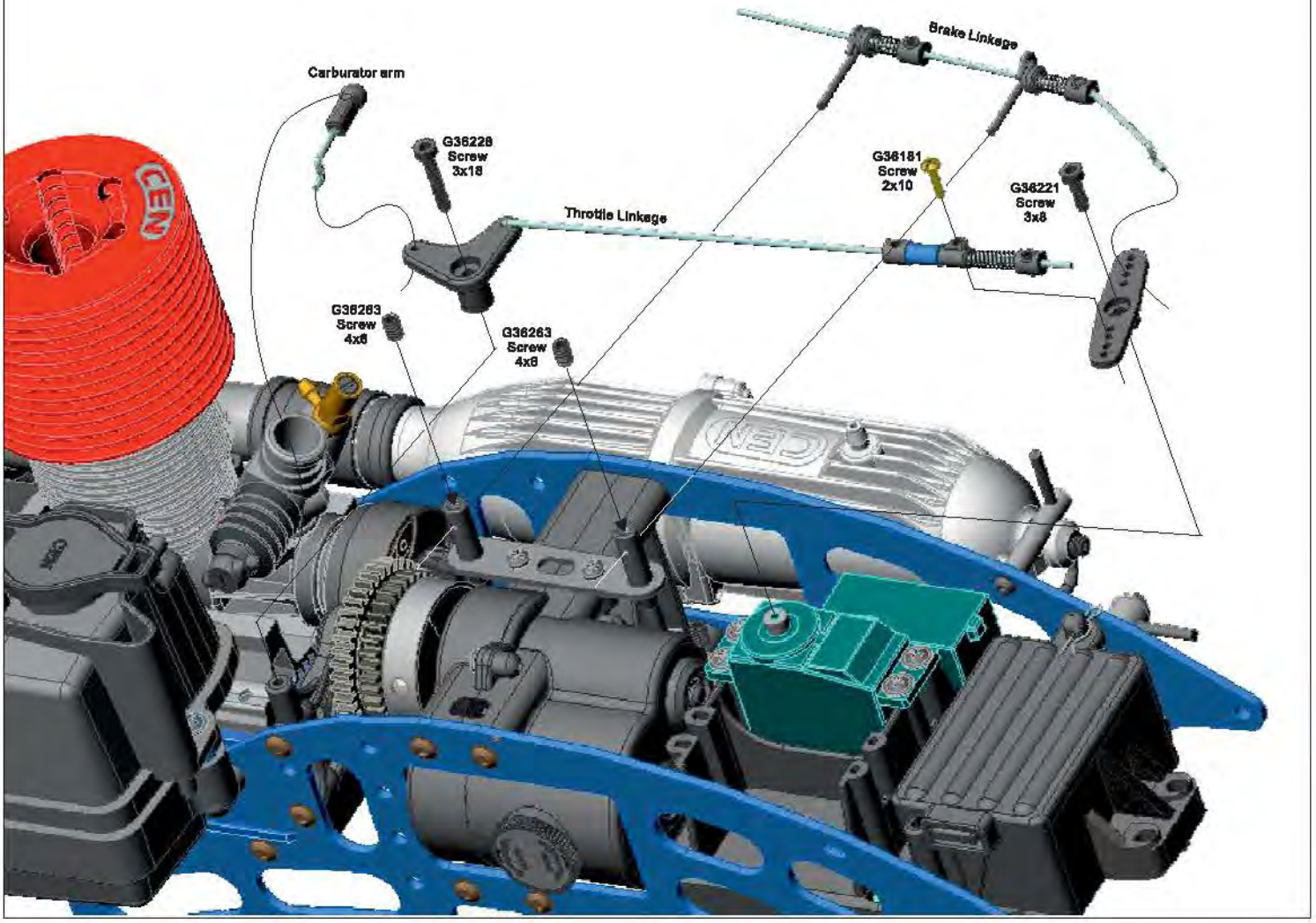
1. Thread the carburetor ball cup onto the short throttle rod.



Finished Throttle/Brake Linkage

10-12 Throttle/Brake Linkage

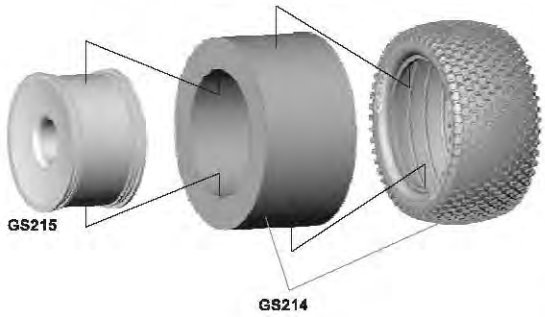
1. Mount the GS082 throttle linkage elbow to the bracket using one 3x18 cap head screw. Leave loose enough to move freely.
2. Insert the short throttle arm into the throttle elbow as shown.
3. Snap the ball cup onto the ball stud found on the carburetor.
4. Insert the two brake lever arms into the two brake camshafts using two 3x4 setscrews.



Frame

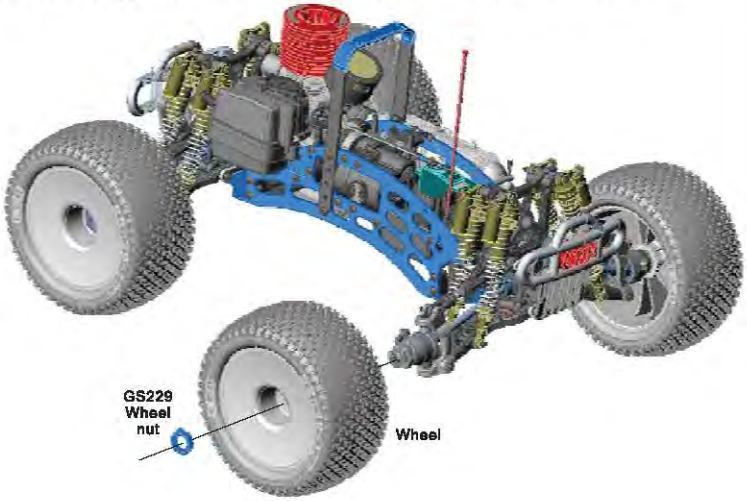
10-13 Wheels(GS228)

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.
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.



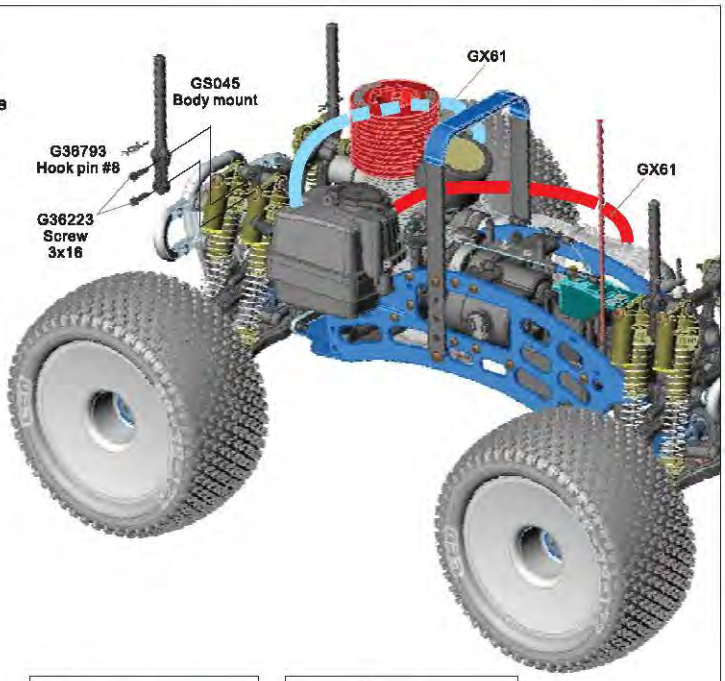
10-14 Wheels

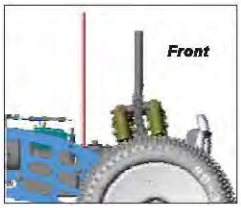
1.After the glue on the tires has dried completely it is time to bolt them to the truck.
2.Using the supplied wheel wrench, tighten down the GS229 wheel nuts.

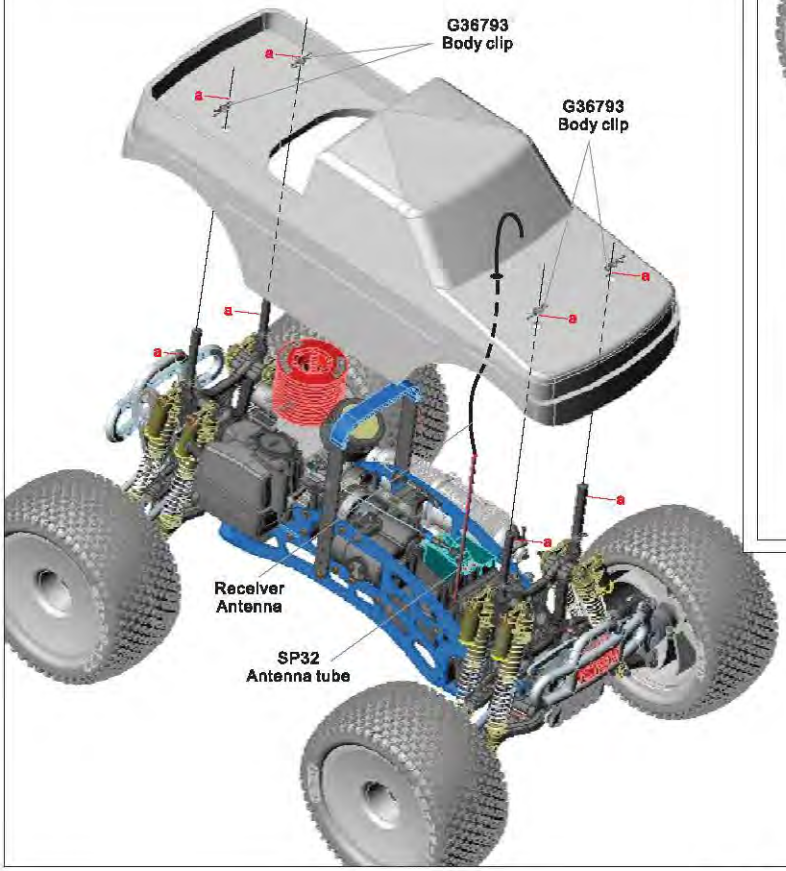


10-15 Body Mounts

1. Mount four GS045 body mounts to the front and rear shock towers using eight 3x16 cab screws. You will use two screws on each mount.
   Notice: There are two lowers holes to choose from. On the rear shock tower use the forward hole. On the front use the backward hole. When done the front and rear mounts should point straight up.
2. Put one body clip into the second hole from the bottom on each post.
3. After putting the body on secure with a second set of body clips.



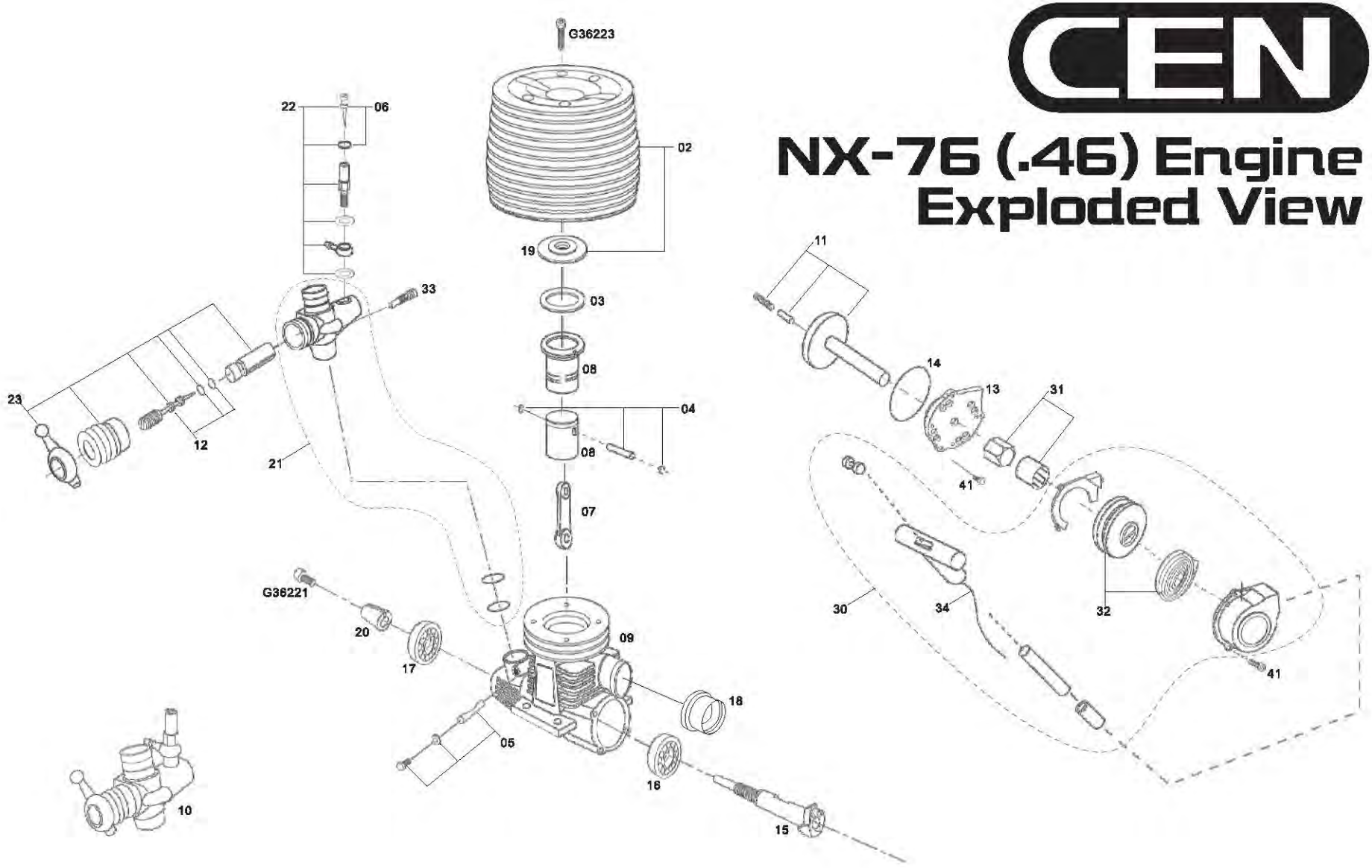




10-16 Body

1.The Nemesis body comes pre-drilled for you.
2. Select the height you would like the body to sit. Insert one G36793 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.

NX-76 (.46) Engine
Exploded View



G70357-02 Cylinder Head	G70357-07 Connecting Rod	G70357-12 Slow Needle	G70357-17 Front Ball Bearing	G70357-22 Carburetor Main Needle Set	G70357-33 Throttle Stop Screw
G70357-03 Cylinder Head Gasket	G70357-08 Piston and Cylinder	G70357-13 Rear Cover	G70357-18 Exhaust Seal Ring	G70357-23 Carburetor Slow Needle Set	G70357-34 Starter Rope
G70357-04 Piston pin	G70357-09 Crank Case	G70357-14 Rear Cover Gasket	G70357-19 Combustion Chamber	G70357-30 Recoil Assembling	G70349-41 Rear Cover Screw
G70357-05 Lock Nut for Carb.	G70357-10 Carburetor	G70357-15 Crank Shaft	G70357-20 Drive Cone	G70357-31 Oneway Hub	G36221 Screw 3x8 cap
G70357-06 Main Needle	G70357-11 Oneway Start Shaft	G70357-16 Rear Ball Bearing	G70357-21 Carburetor Main Case	G70357-32 Recoil Spring	G36223 Cylinder Head Screw

Parts List

Spare Parts	
MX037	Driving Bevel Gear(9T1.5M)
MX203	Brake Lever
MX207	Throttle Spring
MXS21	Clutch Spring 1.1mm
GS003	Clutch Shoes .46
GS012	Flange Bushing #3x6
GS014	Steering Plastic Parts
GS015	Shock Shaft 77mm
GS016	Ball B7.8
GS017	Ball B6.8
GS018A	Shock Spring(White)
GS020	Flange Bushing #4x6
GS022	Air Filter
GS023	Aluminum Arm Brace
GS024	Silicon Exhaust Coupler
GS025	Threaded Hinge Pins 4x56
GS026	Threaded Hinge Pins 4x73
GS027	Threaded Hinge Pins 3x44
GS030	Brake Disk
GS032	Muffler Mount
GS036	220cc Fuel Tank
GS037B	Side Frame (Chassis)/Blue
GS038	Radio Box
GS041B	Engine Plate(Blue)
GS042	Bumper Set (Chrome)
GS044	Shock Tower
GS045	Body Post
GS047	External One-way Gear Hub
GS050	Twin Gear 17-20T
GS052	Internal One-way Gear T34
GS055	External Gear Hub
GS056	External Clutch Gear Hub
GS059B	Skid Plate(Blue)
GS066	Internal Clutch Hub
GS067	Turnbuckles 8x36
GS068	2-Speed Clutch Shoes Set
GS070	Manifold NX-76
GS071	Engine Mount
GS072	Turnbuckles 4x78
GS074	Ball End B7.8
GS079	Clutch Bell(.46)
GS080	Alum. 4-Piece Tunned Pipe
GS081A	Blue heavy Duty Handle
GS082	Plastic Parts Set(Tank Bracket,L Lever)
GS083	Rear Toe-in Brace
GS085	Forward Gear T27
GS087	Steel Spur Gear 43T
GS088	Steel Spur Gear 39T
GS090	Pinion Gear 21T
GS092	Rear Propeller
GS093	Drive Cup
GS098	Clutch Spring (Black / 0.7mm)
GS099	Clutch Spring (Nickle / 0.8mm)
GS104	Nemesis Flash Body
GS201	Differential Sun Gear d8
GS202	Ring Bevel Gear d8(26T)
GS203	Diff. Case Cover-d8
GS204	Diff. Outdriver -d8
GS205	Aluminum Diff. Gear Box
GS206	Side Plate II
GS207	Gear Engager II
GS208	Diff. Brake Outdriver-d8
GS209	Tranny Gear Box II
GS210	Brake Shoes
GS211	Spur Gear 46T-d8
GS212	Brake Cam Brace
GS213	Brake Cam Shaft II
GS214	"Sniper" Racing Tires
GS215	"Assault" Wheels (23mm Hex)
GS216	Aluminum Diff. Case (#6)
GS217	Wheel Hex Driver 23mm
GS218	Pinion Gear 25T
GS219	Front Propeller
GS220	Differential Gasket II
GS221	Aluminum Differential Shim II
GS222	Tranny Spacer
GS223	Rubber Damper
GS225	Suspension Arm
GS226	1st Shaft
GS228	Wheels (pre-glued)
GS229	Wheel Hex Nuts 23mm
GS230	Piston(14mm)
GS231	Shock Body(14mm)
GS232	Shock End-L
GS233	Reservoir
GS234	Preload Spacer
GS235	Spring Retainer
GS236	Reservoir Cap
GS237	Spring Collar
GS238	Diff. Planet Gear
GS239	Diff. Gear Supports
GS240	Expanding Clutch Shoes
GS241	Adjusting Screws
GS242	Dust Cover
GS243	"T" Bolt
GS244	Swing Dogbone
GS245	Wheel Axle
GS246	Spindle
GS247	Spindle Carrier
GS248	Upper Suspension Arm
GS249	Brake Bracket
GS250	Driving Bevel Gear (9T)
GS251	Upper Bracket
GS252	Lower Bracket
GS253	CEN Emblem
GS254	2nd Shaft
GS255	Toe-in Bar
GS256	Steering Drag Link
GS257	Bumper
GS258	Steering Post
GS259	Aluminum Steering Tube
GS260	Steering Spring
GS261	Adjusting Nut
GS262	Radio Box
GS263	Radio Box Lip Mount
GS264	Battery Cover
GS265	Receiver Cover
GS266	Vented Flywheel
GS267	Pilot Nut
GS268	Oil Ring #39.5x2.6
GS269	Air Foam Filter
GS270	Main Shaft Bracket
GS271	Engine Plate Bracket
GS272	Rod Stopper
GS273	Brake Spring
GS274	Throttle Spring
GS275	Controlled Rod
GS276	Controlled Plastic Parts
GS277	"E" Pin 3x18
GS278	Cross Pin
GS279	Nipple M4
GS280	Shock Damper Tube
GS281	Bumper Bracket
GS282	End Guard
GS283	Hex Post 33mm
G36101	Flat Head Screw 3x10
G36102	Flat Head Screw #6-32x10
G36103	Flat Head Screw 3x20
G36104	Flat Head Screw 3x5
G36105	Flat Head Screw 3x8
G36106	Flat Head Screw 3x16
G36111	Flat Head Screw 4x8
G36112	Flat Head Screw 4x12
G36113	Flat Head Screw 4x16
G36151	Binding Head Screw 3x12
G36152	Binding Head Screw 3x8
G36181	Round Head Screw 2x10
G36182	Round Head Screw 2x8
G36191	Round Head Screw 3x12
G36201	Flange Hex Head Screw 4x10
G36202	Ball Studs B5.8xM3x14
G36211	Cap Screw 4x40
G36212	Cap Screw 4x10
G36213	Cap Screw 4x15
G36221	Cap Screw 3x8
G36222	Cap Screw 3x12
G36223	Cap Screw 3x16
G36224	Cap Screw 3x20
G36225	Cap Screw 3x25
G36226	Cap Screw 3x6
G36227	Cap Screw 3x10
G36228	Cap Screw 3x18
G36229	Cap Screw 3x14
G36230	Cap Bolt 3x18
G36241	Cap Screw 3.5x14
G36251	Set Screw 3x4
G36261	Set Screw 4x4
G36262	Set Screw 4x5
G36263	Set Screw 4x6
G36264	Set Screw 4x12
G36271	Set Screw 5x5
G36272	Set Screw 5x6
G36301	Truss Head Screw 4x12
G36302	Truss Head Screw 4x10
G36311	Truss Head Screw 3x10
G36312	Truss Head Screw 3x52
G36313	Truss Head Screw 3x16
G36321	Truss Head Screw 5x6
G36401	Lock Nut 3
G36402	Lock Nut 4
G36501	Tapping Flange Screw 3x14
G36511	Tapping Binding Head Screw 3x10
G36521	Tapping Truss Head Screw 4x12
G36702	Pin 2x20
G36711	Pin 2.5x10
G36721	Pin 3x10
G36722	Pin 3x22
G36724	Pin 3x12
G36725	Pin 3x15
G36726	Pin 3x16
G36731	Pin 2.6x10
G36732	Pin 2.6x12
G36791	Hook Pin #6
G36793	Hook Pin #8
G36801	Washer 3x6x0.5
G36802	Washer 3x8x1
G36803	Washer 4x10x0.8

Parts List

Spare Parts	
G36851	"B" 2.5 Clip
G36852	"E" 2 Clip
G36853	"E" 3 Clip
G36854	"E" 4 Clip
G36901	Shim 5x7
G36902	Shim 8x11.5
G36903	Shim 14x16
G36904	Shim 12x16x0.5
G36906	Shim 9.6x14x0.5
G70301	Oil Ring P4
G70302	Oil Ring P3.5
G70303	Oil Ring P3
G70304	Oil Ring 12.5
G70308	Oil Ring P8
G70309	Oil Ring 10
G70310	Oil Ring P10
G73902	Bearing 5x10x4
G73905	Ball 5mm
G73914	Bearing 8x16x5
G73915	Bearing 10x19x7
G73916	Bearing 6x13x5
G73917	Bearing 6x10x3
G73921	Bearing 12x21x5
G70357	Engine NX-76
G70429	Glow Plug #3
GX61	Fuel Tube
CT032	Rod End 6.8
FF068	Zipper Tie (middle)
FF072	Servo Horn
SP23	Rod End 5.8
SP32	Antenna Straw
SP50	Zipper Tie (small)
G82130	SafeGuard

Tunned Parts	
MX029	Clutch Spring 1mm
MX038	Power Switch Cover
MX061	Aluminum Fuel Filter
MX068	Shock Spring-Blue (Rear)
MX073	Aluminum Steering Post
MX086	Shock Dust-proof Boots
MX202	Tube Clamp
MX208	Fuel Filter
MXS20	CNC Aluminum 3P Clutch Shoes
GS004	Driving Bevel Gear(9T1.5M)
GS018	Shock Spring(Red)
GS021	Wheel Hex Driver 19mm
GS034	Chrome Wheels(19mm)
GS035	V-Pattern Tires
GS037	Side Frame (Chassis)/Red
GS041	Engine Plate
GS051	Internal Clutch GearT31
GS053	Idle Gear Set
GS059	Skid Plate
GS066	Internal Clutch Hub
GS067A	Aluminum Turnbuckles 8x36
GS069	Shift Lever Set
GS073A	Aluminium Turnbuckles 8x90
GS081	Red heavy Duty Handle
GS084	Over-head Shock Parts
GS086	Reverse Gear T22
GS089	Pinion Gear 17T
GS101	Genesis Flash Body
GS102	Genesis Body
GS103	Genesis Limited Flash Body
GS224	Swing Dogbone-Pin4
GS227	Diff. Outdriver -d8-Pin4
GSS01	4WS Option Kits(w/10kgs-cm reverse servo)
GSS03	Steel Forward Gear T27
GSS04	Steel Reverse Gear T22
GSS06	Aluminium Hex Driver 23mm
GSS09	Aluminium Shocks
GSS10	Outdriver-d8,Swing Shaft-Pin4
G70358	Roto-tech Starter
G70359	Back Plate Gear Set
G82113	Receiver Switch
G82122	High Torque 10kg-cm Servo (Metal Gear)
G82123	High Torque 10kg-cm Reverse Servo (Metal Gear)
G82124	High Torque 5kg-cm Servo (Metal Gear)
G82126	Metal Servo Gear Set
GXS02	Post 33mm

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Nemesis Exploded View