

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".

viv.cenracin

GST Fast Facts

Length: 23.lin. (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 linch (w/o Top shocks)
Tire Size: 7.5in. (190.5mm)
Wheel Size: 5.2in. (132.1mm)
Fuel Tank Capacity: 220cc

Item #:9508

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.



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,



amount of solder. Be careful iron is very hot

Soldering iron (40~50 watts) and a small

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.

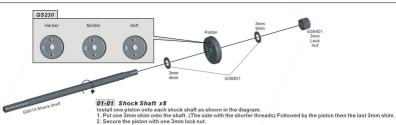
Use only FCC approved ground frequency crystals in the R/C unit.

- ●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.

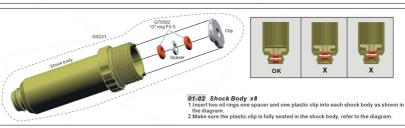
• If the car is not operating properly, stop immediately and check the condition of the car.

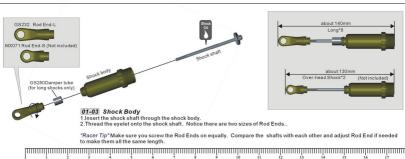
- ●To avoid damage to the R/C equipment, or losing control of the car, avoid running in or near water.
- ●To always maintain control of your car and to avoid a jump start, Please do the following:
- 1. ON First turn on the transmitter, then the car's receiver. 2. OFF Turn off the car's receiver, then 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



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





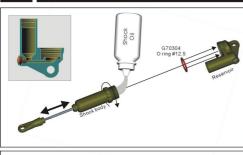


01-04 Reservoir x8

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

eat for each reservoir.

Shock Assembly



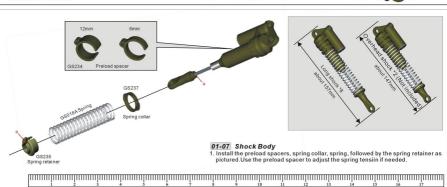
01-05 Shock Body x8

- Insert one #12.5 "O" ring into each reservoir. Make sure the "O" ring is completely seated as shown in the diagram.
- 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.

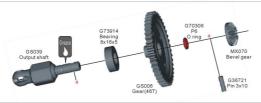


01-06 Shock Body x8

- 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.
- 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.



02 Transmission Assembly



02-01 Center Diff

- Slide one G73914 8x16x5 bearing onto the GS006 gear.
 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.

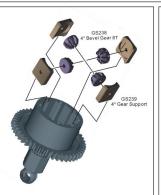
 3. Insert one 3x10 pin through the pinhole on the output shaft followed by the bevel gear.



GS001 Diff case

02-02 Center Diff

- 1. Attach the GS006 gear to the GS001 differential case using the four 3x10 flat head screws, GS220 gasket, and one GS221 shim. Pay close attention to centering the gasket properly.
- 2. Make sure you get the screws tight. Thread lock is highly recommended on all the differential screws.





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



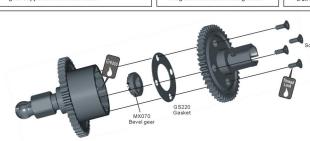
02-04 Center Diff

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



02-05 Center Diff

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

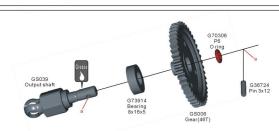


G36101 Screw 3x10*4

02-06 Center Diff

- 1. Put the bevel gear together as shown in the picture
- 2. Carefully center the GS220 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.

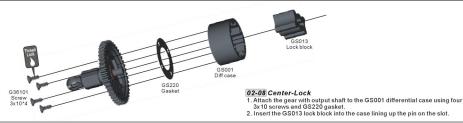
"Racer Tip" Tighten down the four screws evenly making sure they are all equally snug.

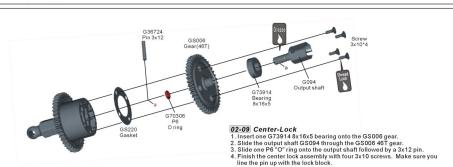


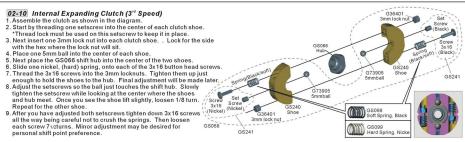
02-07 Center Lock

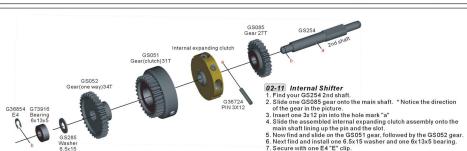
1.Slide one G73914 8x16x5 bearings onto the GS006 gear. 2.Next slide the output shaft into the gear as shown. 3.Slide on "O" ring followed by the 3x12 pin.

Transmission Assembly

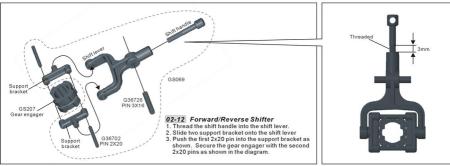


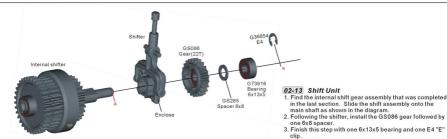




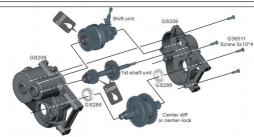


06









02-15 Center Transmission

- 1. Assemble the transmission as shown in the picture.
- Lightly coat the gears with grease.

GS053

Secure both halves with four 3x10 button head screws.

"CEN Tip" Installing the center-lock will give your truck the ability pull wheelies. * The use of the center-lock will greatly reduce the life of drive train parts due to the added stress and wear the block creates. Expect excessive wear and stress.

GS285

Transmission Assembly

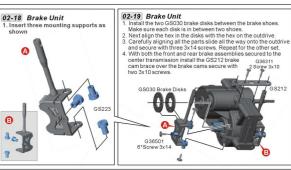
02-16 Dust Cover

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



Screw 3x10





02-20 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.

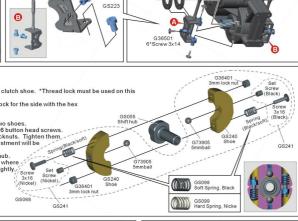
5. Next place the GS055 shift hub into the center of the two shoes. 6. Slide one black, (soft) spring, onto each of the two 3x16 button head screws.

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.



02-21 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. G36104 Screw GS056 GS088 Gear(39T) G73914



using three 3x5 screws

2. Thread lock is required on these screws



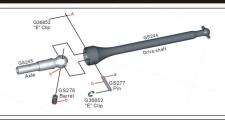
Transmission Assembly



02-24

- 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
- G36852 3 E2 GS040 lescope shaft G36852 GS27
- 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 "E" clips.

Suspension Assembly



03-01 Drive Shaft Assembly x4

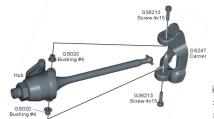
- 1. Insert one barrel into the axle as shown
- 2. Align the pin hole on the drive shaft and barrel.
- Push pin through and secure with two E2 "E" clips
- 4. Repeat three more times.

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 setscrew.
- 5. Repeat for each hub.
- "Racer Tip" Thread lock recommended











03-03 Hub and Spindle Assembly x4

- 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





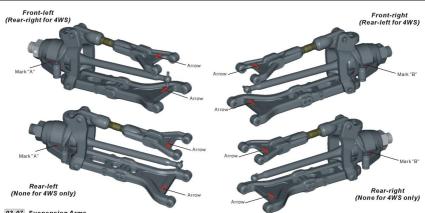
03-05 Suspension Arm Assembly (Front-right)

- 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.

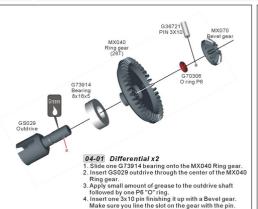


03-07 Suspension Arms

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

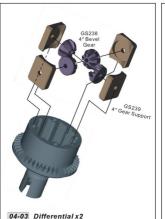
Notice: Look carefully and you will find an arrow. This arrow should always point towards the outside of the truck. Use this arrow for the front and rear,

Differential Assembly



5. Repeat one more time.





04-04 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.

04-05 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. GS029 Outdrive G73914 Bearing 8x16x5 GS060 G70306 Oring P6

G36721

IN 3X10

04-06 Differential x2

gears stay correctly in place.

2. Repeat one more time.

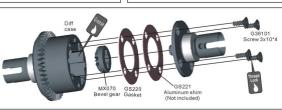
1. Line the slot on the bevel gear up with the 3x10 pin from the outdrive cup.

1. Install two small bevel gears and gear supports into the differential case. Carefully install

everything making sure the bevel gears on the

- 2. Assemble the differential using one GS220 gasket and one GS221 differential shim, using four 3x10 flat head
 - * Thread lock is highly recommended on these screws.

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

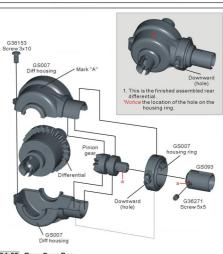


Gear Box Unit



G36153 Screw 3x10

G73914



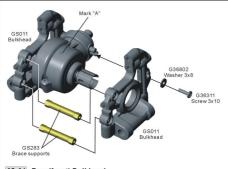
04-08 Rear Gear Box

- 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.

Mark "A" GS007 Diff housing Upward (hole) 1. This is the finished assembled front differential. Notice the location of the hole on the housing ring. GS007 housing ring Pinion Upward (hole) Differential GS007 Diff housing 04-09 Front Gear Box

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

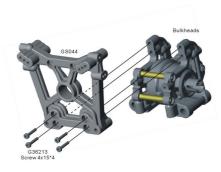
Front / Rear End



05-01 Rear(front) Bulkhead

- 1. Assemble the two GS011 bulkheads together as shown with two GS283 brace supports. 2. Screw in two 3x10 screws with washers.

3. Repeat for the front.

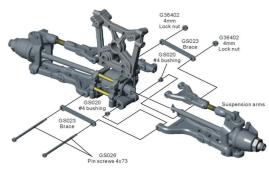


05-02 Rear(front) Bulkhead

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

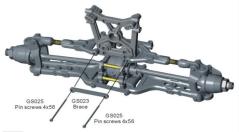
05-03 Upper Bracket x2

- 1. Secure the GS251 bracket to the rear bulkhead using two 4x15 screws
- 2. Repeat for the front.



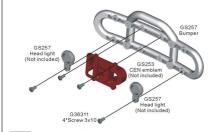
05-04 Front and Rear End

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



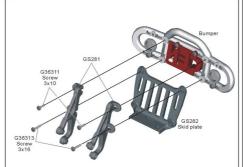
05-05 Front and Rear End

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



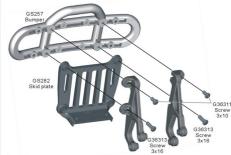
05-06 Front Bumper

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



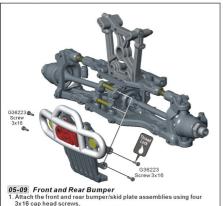
05-07 Front Bumper

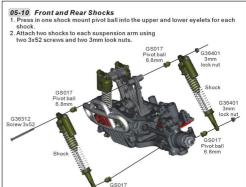
1. Attach bumper and skid plate using two 3x10 and two 3x16 button head screws. Notice 3x16 screws must go through skid plate into the bumper.



05-08 Rear Bumper

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.





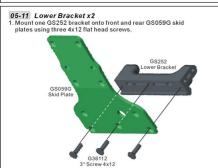
Pivot ball

6.8mm

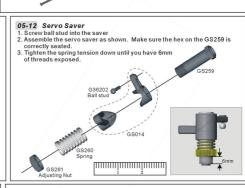
G36312

05-14 Servo Saver

Screw 3x5



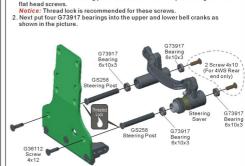
Notice: Thread lock recommended for these screws.



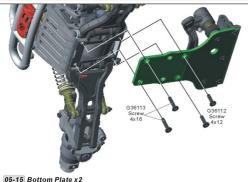


05-13 Steering Bell Crank screws, two 3mm washers, two 3mm lock nuts and the GS012 #3 bushings Double check you have the parts in the correct order as pictured

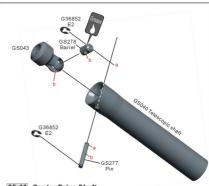
2. Bell cranks should pivot freely. Loosen screws slightly if needed.



1. Attach two GS258 steering posts onto the front bottom plate using two 4x12

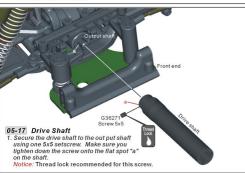


1. With the steering assembly mounted correctly onto the bottom plate, secure the entire end assembly onto the bottom plate using two 4x16 flat head screws and two 4x12 flat head screws.



05-16 Center Drive Shaft

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



CT032 Rodend Steering rod GS017 Reverse threaded Ball 6.8 Normal threaded CT032 Rod end GS017 **Ball 6.8** 05-18 Steering Rod Assembly x2 1. Thread two CT032 into two GS072 steering rods.

Notice: Carefully look at the eyelet holes. Insert bushing into open

2. Press in one pivot bushing (Ball 6.8) into each rod end.

05-19 Steering Rods

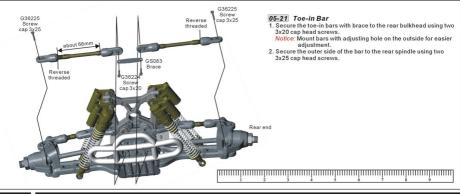
1. First mount the steering rods to the bell cranks using two 3x16 caps screws and 3mm lock nuts. The steering rod should be mounted to the bottom side of the bell cranks.

2. Next mount the outer side of the steering rod to the spindles using two 3x25 cap head G36401 Lock nut Steering Rod Reverse Threaded G36225 Reverse Threaded 3x25

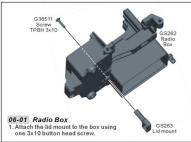
GS074 Rod end GS016 Ball 7.8 Normal threaded Reverse threaded GS016 Ball 7.8 GS074 Rod end 05-20 Toe-in Bar x2 1. Thread the GS074 rods ends onto the rear GS255 toe-in bars. 2. Press one GS016 pivot bushing into each rod end.

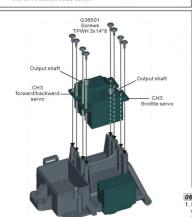
Notice: Carefully look at the eyelet holes. Insert bushing into open side.

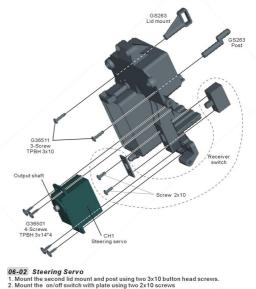
05 Rear End



06 Radio Box







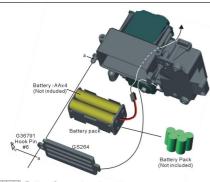
Mount the steering servo to the underside of the radio box using four 3x14 screws.

Notice: Pay attention to the placement of the output shaft on the servo.

06-03 Servos

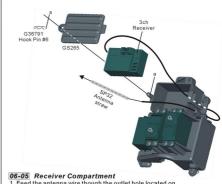
 Mount two servos; throttle and auxiliary servo, to the upper side of the radio box using eight 3x14 screws.
 Notice: Pay attention to the placement of each servos output shaft in the diagram

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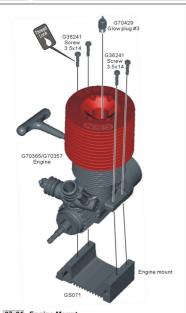
06-04 Battery Compartment

- 1. Install four fresh AA batteries into the battery pack.
- Feed the plug through the outlet hole on the inside of the battery compartment.
- 3. Mount and secure GS264 compartment cover with one Hook Pin #6.



- Feed the antenna wire though the outlet hole located on the inside of the receiver compartment.
- 2. Mount and secure the GS265 compartment cover with one Hook Pin #6.
 3. Gently slide the antenna wire up through the antenna
 - straw and press into mount.

07 Engine



07-01 Engine Mount

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

07-02 Vented Flywheel

Install one 9.6x14x0.5 copper shim onto the crankshaft followed by the drive cone (if needed).

Next slide the GS266 flywheel onto the drive cone and secure with the GS008 nut.

cone and secure with the GS008 nut.

Notice: Thread lock is recommended for the nut.

GS267

Nut

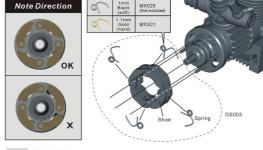
GS266

Flywheel

G70357-20

Drive cone

G36906



07-03 Clutch Shoes

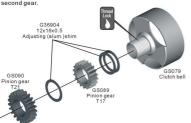
- Put one clutch spring into the center of each shoe lining up the eyelet with the hole in each shoe.
 Press the shoe with the spring in the center half way onto the pin on the flywheel.
- 3. Using a flat head screwdriver press the small tab on the spring into the groove found on the clutch nut.
- 4. 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.

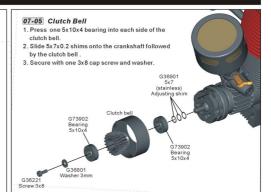
11

07-04 Clutch Bell

07-07 Air Filter

- 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.





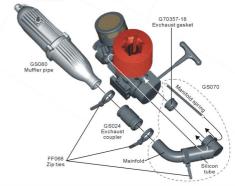
07-06 Muffler Pipe (GS080) GS268 G36191 1.Assemble the muffler as shown in the diagram. 2.Use four 3x12 button head screws to hole pipe together. Screws 4*3x12 Notice: Thread lock recommended for these screws. 3. Thread in nipple with "O" ring into the front portion of the pipe. GS279 Nipple G70301 P4 "O" ring

1.Press the foam filter into the rubber air filter mount. 2.Press entire air filter onto the carburetors air intake. GS269 Foam filter GS022 Filter mount

07-08 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.

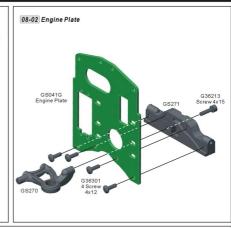


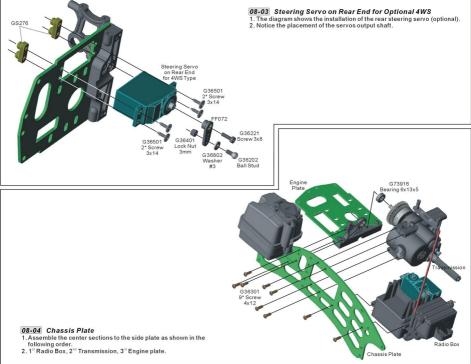
08 Frame

08-01 Fuel Tank

- Secure the fuel tank mount to the GS037G chassis plate as shown using two 3x10 button head screws.
- Mount the GS036 fuel tank to the mount using two 3x14 screws and two rubber grommets.





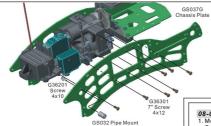


10

08-06 Roll Over Bar

screws and four 4mm locknuts.

08



08-05 Chassis Plate

- 1. Attach the GS032 pipe mount to the left side plate using one
- 4x10 screw.

 2. Secure the side plate to the main chassis assembly using
- Secure the side plate to the main chassis assembly using seven 4x12 screws.

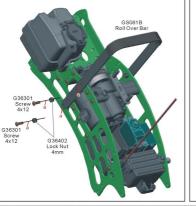
08-07 Engine

1. Mount the massive .46 engine to the engine plate using four 4x10 hexagonal head crews.

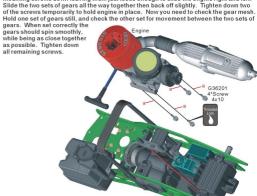
Gear mesh will need to be set. Notice: Thread lock is recommended on all these screws.

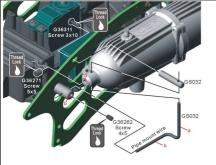
Setting Proper Gear Mesh

Setting Proper Sear wesh. 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 quears still, and check the other set for movement between the two sets of



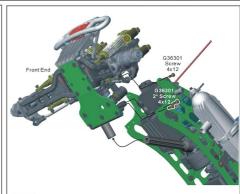
1. Mount the GS081B roll over bar using four 4x12 button head





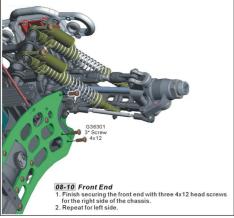
08-08 Muffler Mount

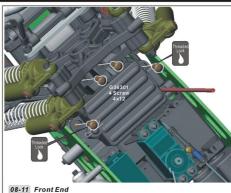
- First slide the pipe mount wire through the pipe mount hole. Secure it with the 4x6 set screw.
- Next slide the pipe mount wire through the end of the muffler. Secure it with the 5x6 set screw.



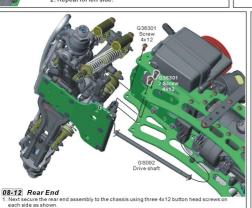
08-09 Front End

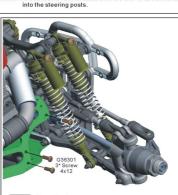
 Secure the front end assembly to the chassis plates as pictured using three 4x12 button head screws.





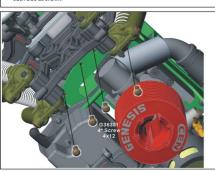
1. Secure the front side of the radio box using four 4x12 screws as shown in the picture. Notice: Thread lock is recommended for the two 4x12 screws that thread





08-13 Rear End

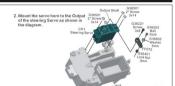
1. Secure the left side using three 4x12 button head screws.

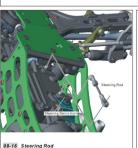


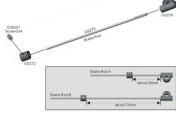
08-14 Rear End

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









 Gently snap the ball cup and ball end onto the ball stubs. Minor adjusting may be needed to get the serve arm and the bell crank narallel

08-17 Brake Linkage (A.B) Thread one brake rod into each rod mount.

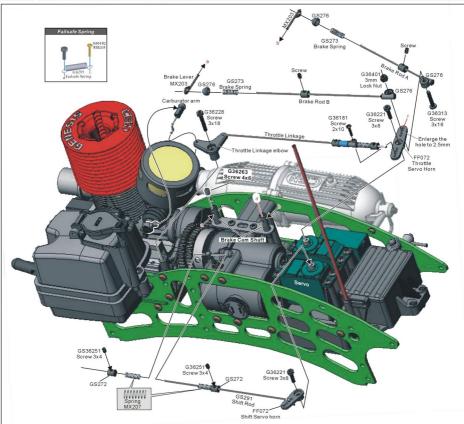
- Slide one collet onto each rod and secure with setscrew the
- correct length away from rod mount as shown. Leave the screws loose, will adjust in the later steps.





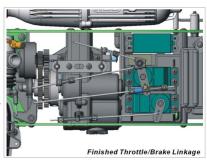
08-18 Throttle Linkage

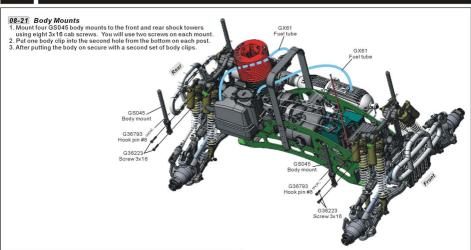
 Slide the throttle hardware onto the throttle control rod in the order shown. Leave the setscrews loose, will adjust and tighten in later steps.

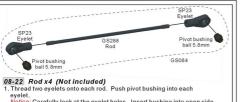


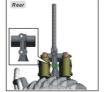
08-20 Throttle/Brake Linkage

- 1. Mount the throttle linkage elbow to the bracket using one 3x18 cap head screw. Leave loose enough to move freely.
- 2. Insert the carburator arm into the throttle elbow as shown.
- 3. Snap the ball cup onto the ball stud found on the carburetor.
- 4. Slide one spring and one spring collar onto each Brake rod.
- 5. Enlarge the third hole in from the end on the throttle servo horn to 2.5mm.
- 6. Using one 3x16 screw, mount rod mount (A) on the bottom and rod mount (B)
- on top of the throttle servo horn as pictured in the diagram. Secure with 3mm lock nut.
- 7. Don't over tighten the screw, rod mounts should move freely. 8. Slide both brake rods with the springs and collars through the brake levers.
- 9. Install the brake lever with 1mm sticking out the other side of the brake cam.
- 10. Make sure the eyelets are facing the direction pictured in the diagram
- 11. Secure the brake levers with the single setscrew found on the top of the brake
- 12. Slide the Shift hard ware onto the shift rod in the order shown . Leave the Setscrews Loose. Will adjust and tighten in the later steps.



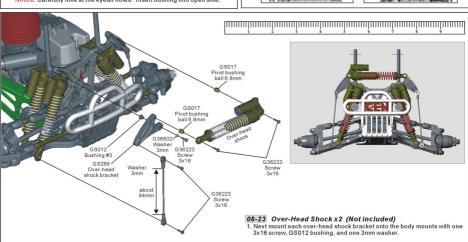








Notice: Carefully look at the eyelet holes. Insert bushing into open side.

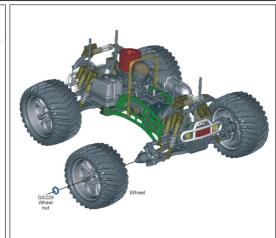


08-24 Wheels

- 1. First carefully seat the foam inside the tire.
- 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 of the later step for correct position.

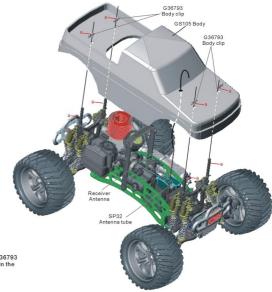
 3. After the tire is neatly seated on the wheel you need to glue the
- After the tire is heatiy seated on the wheel you need to glue the tires to the wheels.
- Using CA glue, lift the tire up slightly from the wheel and apply a small bead around the entire wheel/tire.
- 5. Repeat for each side of each tire.





08-25 Wheels

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



08-26 Body

- 1.The GST7.7 body comes pre-drilled for you.
- 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.
- Place body onto the post and secure with FF069 body clips. Remember to insert the antenna tube through the body.

GS087

GS088

Steel Spur Gear 43T Steel Spur Gear 39T

Spare P	arts	GS089	Pinion Gear 17T	GS277	"E" Pin 3x18
MX037	Driving Bevel Gear(9T1.5M)	GS090	Pinion Gear 21T	GS278	Cross Pin
MX040	Ring Bevel Gear-d6(26T1.5M)	GS092	Rear Drive Shaft	GS 279	Nipple M4
MX070	Diff. Sun Gear-d6	GS093	Drive Cup	GS 280	Shock Damper Tube
MX203	Brake Lever	GS094	Brake Drive Cup	GS281	Bumper Bracket
MX207	Shift Spring 0.5D4C8.5L9	GS098	Clutch Spring (Black / 0.7mm)	GS 282	End Guard
MXS21	Clutch Spring 1.1mm	GS099	Clutch Spring (Nickle / 0.8mm)	GS 283	Hex Post 33mm
MXS39	Aluminum Diff. Case(M3)	GS105	Body GST 7.7	GS 285	Tranny Spacer for Genesis
3S001	Aluminum Diff. Case(M3)*2	GS207	Gear Engager II	GS 286	Aluminum Bearing Holder for Tranny Gear Bo
3S003	Clutch Shoes .46	GS209	Tranny Gear Box II	GS 287	Chrome Wheels-23mm
3S006	Internal Trans. Spur Gear(46T)	GS210	Brake Shoes	GS 291	Shiftrod
3S007	Gear Box (Genesis)	GS212	Brake Cam Brace	GS 292	Tie Rod 3x36
3S011	Side Plate (Genesis)	GS213	Brake Cam Shaft II	G36101	Flat Head Screw 3x10
S012	Flange Bushing #3x6	GS217	Wheel Hex Driver 23mm	G36103	Flat Head Screw 3x20
S013	Lock Block (Genesis)	GS220	Differential Gasket II	G36104	Flat Head Screw 3x5
S014	Steering Plastic Parts	GS221	Aluminum Differential Shim	G36105	Flat Head Screw 3x8
S015	Shock Shaft 77mm	GS223	Rubber Damper	G36111	Flat Head Screw 4x8
S015	Ball B7.8	GS225	Suspension Arm	G36111	Flat Head Screw 4x12
S017	Ball B6.8	GS225	1st Shaft	G36112	Flat Head Screw 4x16
S018A	Shock Spring(White)	GS229	Wheel Hex Nuts 23mm	G36151	Binding Head Screw 3x12
S020	Flange Bushing #4x6	GS230	Piston(14mm)	G36152	Binding Head Screw 3x8
S022	Air Filter	GS231	Shock Body(14mm)	G36153	Binding Head Screw 3x10
S023	Aluminum Arm Brace	GS232	Shock End-L	G36181	Round Head Screw 2x10
S024	Silicon Exhaust Coupler	GS233	Reservoir	G36182	Round Head Screw 2x8
S025	Threaded Hinge Pins 4x56	GS234	Preload Spacer	G36191	Round Head Screw 3x12
S026	Threaded Hinge Pins 4x73	GS235	Spring Retainer	G36201	Flange Hex Head Screw 4x10
S027	Threaded Hinge Pins 3x44	GS236	Reservoir Cap	G36202	Ball Studs B5.8xM3x14
S029	Differential Outdriver-d6	GS237	Spring Collar	G36211	Cap Screw 4x40
S030	Brake Disk	GS238	Diff. Planet Gear	G36212	Cap Screw 4x10
S032	Muffler Mount	GS239	Diff. Gear Supports	G36213	Cap Screw 4x15
S035	V-Pattern Tires	GS240	Expanding Clutch Shoes	G36221	Cap Screw 3x8
S036	220cc Fuel Tank	GS241	Adjusting Screws	G36222	Cap Screw 3x12
S037G	Side Frame (Chassis)/Green	GS242	Dust Cover	G36223	Cap Screw 3x16
S038	Radio Box (Plastic Parts)	GS243	"T" Bolt	G36224	Cap Screw 3x20
S039	Differential Brake Shaft	GS244	Swing Dogbone	G36225	Cap Screw 3x25
S040	Telescopic Shaft	GS245	Wheel Axle	G36226	Cap Screw 3x6
S041G	Engine Plate(Green)	GS246	Spindle	G36227	Cap Screw 3x10
S043	Universal Joint Ball	GS247	Spindle Carrier	G36228	Cap Screw 3x18
S044	Shock Tower	GS248	Upper Suspension Arm	G36229	Cap Screw 3x14
S045	Body Post	GS249	Brake Bracket	G36230	Cap Bolt 3x18
S047	External One-way Gear Hub	GS251	Upper Bracket	G36241	Cap Screw 3.5x14
S050	Twin Gear 17-20T	GS251	Lower Bracket	G36251	Set Screw 3x4
S051	Internal Clutch GearT31	GS252	CEN Emblem	G36251	Set Screw 4x4
S052		GS253 GS254	2nd Shaft		
8052	Internal One-way Gear T34 Idle Gear with Bearing	GS254 GS255	Znd Shaft Toe-in Bar	G36262 G36263	Set Screw 4x5 Set Screw 4x6
S055	External Gear Hub	GS255 GS256		G36264	
S055	External Gear Hub External Clutch Gear Hub	GS256 GS257	Steering Drag Link Bumper	G36264 G36271	Set Screw 4x12 Set Screw 5x5
-		_	(100 min 100 m		
S059G	Skid Plate(Green)	GS258	Steering Post	G36272	Set Screw 5x6
S060	Differential Case Cover-d6	GS259	Aluminum Steering Tube	G36301	Truss Head Screw 4x12
S066	Internal Clutch Hub	GS260	Steering Spring	G36302	Truss Head Screw 4x10
S067	Turnbuckles 8x36	GS261	Adjusting Nut	G36311	Truss Head Screw 3x10
S068	2-Speed Clutch Shoes Set	GS262	Radio Box	G36312	Truss Head Screw 3x52
S069	Shift Lever Set	GS263	Radio Box Lip Mount	G36313	Truss Head Screw 3x16
070	Manifold NX-76	GS264	Battery Cover	G36321	Truss Head Screw 5x6
3071	Engine Mount	GS265	Receiver Cover	G36401	Lock Nut 3
3072	Turnbuckles 4x78	GS266	Vented Flywheel	G36402	Lock Nut 4
S074	Ball End B7.8	GS267	Pilot Nut	G36501	Tapping Flange Screw 3x14
S079	Clutch Bell(.46)	GS268	Oil Ring #39.5x2.6	G36511	Tapping Binding Head Screw 3x10
S080	Alum. 4-Piece Tunned Pipe	GS269	Air Foam Filter	G36521	Tapping Truss Head Screw 4x12
S081B	heavy Duty Handle /Black	GS270	Main Shaft Bracket	G36702	Pin 2x20
	Plastic Parts Set(Tank Bracket, L Lever)	GS270	Engine Plate Bracket	G36711	Pin 2.5x10
S082	/ are self ram proceedin perel)				
	Rear Toe-in Brace	GS272			
S083	Rear Toe-in Brace	GS272	Rod Stopper Brake Spring	G36721	Pin 3x10
GS082 GS083 GS085 GS086	Rear Toe-in Brace Forward Gear T27 Reverse Gear T22	GS272 GS273 GS274	Rod Stopper Brake Spring Throttle Spring	G36721 G36722 G36724	Pin 3x10 Pin 3x22 Pin 3x12

GS275

Pin 3x15

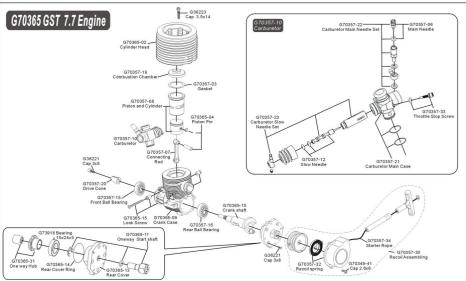
G36725

G36726 Pin 3x16

Parts List

C D	40	PR0.40			00100	a	Г		
Spare Par		FF068	Zipper Tie (middle)	Н	GS102	Genesis Body	l F	GSS14	Lock-Block (Nemesis)
G36731	Pin 2.6x10	FF072	Servo Horn	П	Gs103	Genesis Limited Flash Body	l H	GSS15	CNC Flywheel
G36732	Pin 2.6x12	SP23	Rod End 5.8	П	GS104	Nemesis Flash Body	Ļ	GSS16	CNC Cluch Shoes.46
G36791	Hook Pin #6	SP32	Antenna Straw	П	GS201	Differential Sun Gear , d8	L	G36102	Flat Head Screw #6-32x10
G36793	Hook Pin #8	SP50	Zipper Tie (small)	П	GS202	Ring Bevel Gear, d8(26T)	L	G36106	Flat Head Screw 3x16
G36801	Washer 3x6x0.5	GX61	Fuel Tube		GS203	Diff. Case Cover , d8	L	G70308	Oil Ring P8
G36802	Washer 3x8x1	CT032	Rod End 6.8		GS204	Diff. Outdriver , d8		G70309	Oil Ring 10
G36803	Washer 4x10x0.8	G70429	Glow Plug #3	П	GS205	Aluminum Diff. Gear Box (#6), Nemesis		G70358	Roto-tech Starter
G36851	"E" 2.5 Clip	Tunned	Parts		GS206	Side Plate II		G70359	Back Plate Gear Set
G36852	"E" 2 Clip	MX029	Clutch Spring 1mm	П	GS208	Diff. Brake Outdriver-d8	П	G73921	Bearing 12x21x5
G36853	"E" 3 Clip	MX038	Power Switch Cover		GS211	Spur Gear 46T-d8 (Nemesis)	ı	G82113	Receiver Switch
G36854	"E" 4 Clip	MX068	Shock Spring-Blue (Rear)	П	GS214	"Sniper" Racing Tires		G82122	High Torque 10kg-cm Servo (Metal Gear)
G36901	Shim 5x7	MX073	Aluminum Steering Post	П	GS215	"Assault" Wheels (23mm Hex)		G82123	High Torque 10kg-cm Reverse Servo (Metal Gear)
G36902	Shim 8x11.5	MX086	Shock Dust-proof Boots		GS218	Pinion Gear 25T		G82124	High Torque 5kg-cm Servo (Metal Gear)
G36903	Shim 14x16	MX202	Tube Clamp		GS219	Front Drive Shaft		G82126	Metal Servo Gear Set
G36904	Shim 12x16x0.5	MX208	Fuel Filter	П	GS222	Tranny Spacer for Nemesis		G82130	Safe Guard
G36906	Shim 9.6x14x0.5	GS004	Driving Bevel Gear(9T)		GS224	Swing Dogbone-Pin4		GXS02	Post 33mm
G70301	Oil Ring P4	GS 005	Drived Bevel Gear(26T)	П	GS227	Diff. Outdriver -d8-Pin4		MXS24	Steel Main Gear T46-d6
G70302	Oil Ring P3.5	GS018	Shock Spring(Red)		GS228	Wheels (pre-glued)		MXS41	CNC Bell Crank Upper
G70303	Oil Ring P3	GS037	Side Frame (Chassis)/Red		GS284	Shock Bushing for Aluminum Shock		MX061	Aluminum Fuel Filer
G70304	Oil Ring 12.5	GS037B	Side Frame (chassis)/Blue		GS288	Tie Rods for Over-head Shock		MX071	Shock End-S
G70306	Oil Ring P6	GS 041	Engine Plate	П	GS289	Triangle Plate for Over-head Shock			
G70310	Oil Ring P10	GS041B	Engine Plate /Blue	П	GS290	Alum. Holder for Side Plate II			
G70357-18	Exhaust Rubber Gasket	GS 042	Bumper Set (Chrome)		GS293	Wheel Cup Nut			
G70357-20	Drive cone	GS 059	Skid Plate (Red)	П	GS294	Alum. Wheel Hex. Driver 23mm			
G73902	earing 5x10x4	GS059B	Skid Plate/Blue		GSS01	4WS Option Kits(w/10kgs-cm reverse servo)			
G73905	Ball 5mm	GS067A	Aluminum Turnbuckles 8x36	П	GSS03	Steel Forward Gear T27	П		
G73914	Bearing 8x16x5	GS073A	Aluminium Turnbuckles 8x90	П	GSS04	Steel Reverse Gear T22			
G73915	Bearing 10x19x7	GS080A	Heavy Duty Handle /Blue	П	GSS06	Aluminium Hex Driver 23mm			
G73916	Bearing 6x13x5	GS081	Red heavy Duty Handle	П	GSS07	F/R Tranny Unit (Nemesis)			
G73917	Bearing 6x10x3	GS084	Over-head Shock Set	П	GSS09	Aluminium Shocks			
G70365	Engine GST 7.7	GS101	Genesis Flash Body	П	GSS10	Outdriver-d8,Swing Shaft-Pin4			
Eng	ine								

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2

GST 7.7 Starting Instructions Please follow the steps below to prepare, start and break-in your GST 7.7 nitro engine. If you have any questions at any time please give your local

Step 1. Charge Glow Igniter

The nitro engine requires a glow igniter (available separately) to light the glow plug when starting the engine. The igniter takes approximately 12 hours to fully charge. You should always make sure the igniter is fully charged when starting your engine.

CEN Repair Shop a call or E-mail us at customerservice@cenracing.com for technical support.

Step 2.Install 12 AA Batteries The transmitter and receiver pack both need to have batteries installed into them before doing anything else to the CEN vehicle, eight batteries in

the transmitter and four batteries in the truck. If you start the CEN vehicle before installing them it may run away from you. You may use NiMh or NICd in addition to alkaline batteries. Be sure to completely charge rechargeable batteries before installing.

Step 3.Check your Fuel

Make sure you are using the proper high quality fuel with the correct nitro percentage (20-30% Nitro). Fuel that is left in an open bottle will go bad uickly. Always keep fuel in an airtight container

Step 4.Install your Air Filter

Some models may already have the air filter installed. If yours has not, find it in the box and install it onto the carburetor. It comes with a zip tie to use to secure it to the engine.

Step 5.Standing your Antenna Up Insert the antenna wire through the antenna mount, then through the antenna tube, then insert into tube mount. The antenna wire may be longer

then the tubes, if so DO NOT cut the wire let excess hang freely Step 6. Turning on your Transmitter

ALWAYS turn on the transmitter first, followed by the receiver. Never turn off the transmitter or the reciever while the engine is running. Always turn off engine first then the receiver, followed by the radio.

Remember... You should always turn the transmitter on first and turn it off last.

Step 7.Check for Proper Operation of Servos With the transmitter and receiver all turned on (engine not running) make sure your steering, throttle and forward/reverse servos are working correctly. Make sure when you turn the wheel on the transmitter left the wheels turn left, and then check the right side. When you pull the throttle trigger the carburetor should open, when you push the trigger back the brakes should be applied. If your servos are slow moving or responding you

need to check for weak batteries. Step 8.Checking the Transmitters Range

Before driving your CEN vehicle, test the range of your radio system. Walk away from the truck to equal the furthest distance you plan to drive your CEN vehicle. Make sure all the servos operate correctly. Do not operate the truck if you notice any transmitter problems.

Step 9. Filling the Fuel Tank Up with Fuel Using your supplied fuel bottle, squeeze the bottle and insert it into your container of fuel, Let go of it and the suction will suck the fuel into your fuel

bottle. Next lift the cap on the tank and fill of up with fuel.

Step 10. Prime the Engine with Fuel To prime the fuel system put your finger over the exhaust outlet on the exhaust pipe. Pull the pull cord a few times and watch for the fuel to fill the

fuel line. Stop once the fuel reaches the carburetor. *If you notice the fuel line is not priming right you may need to open the carburetor to allow the fuel to flow through.

Step 11. Starting the Engine Do not start the engine until you have read and understood all the directions. By starting the engine you have indicated that you have checked the transmitter and servos ECT. For proper operation. With transmitter and receiver all turned on, attach your fully charged glow igniter onto the glow plug. With one hand holding the glow heater, use your other hand to give the pull starter quick short pulls. (Pulling the pull start cord too far will

brake the spring inside and void the warranty) The engine will start much easier if you hold 4 throttle on the transmitter.

Step 12. Keeps the Engine Running A new engine may not idle smoothly until it's correctly broken in (Break-in procedures found in step 14). Use the transmitter to keep the engine reved up just enough to keep it running. If the engine stalls you may need to raise the idle slightly.

Step 13. Proper engine break-in is very important to achieve the highest possible performance and reliability Allow yourself some time to properly break-in the engine. This is one of the most important steps to follow so take your time. Do not run the engine

at high RPMs until it is completely broken in. It is usual for the engine to stall, run inconsistently, and even foul glow plugs during the first couple of tanks. If this is happening to yours, don't worry about it too much. It is a normal step in running any nitro powered R/C car. All of this will go-away when your engine is broken in well.

Step 14. Break-in Procedures

To begin break in procedures for you're new engine simply idle 3 tanks of fuel allowing the engine to cool down completely between tanks. On the 4" and 5" tank start driving the truck around slowly. On the 6" tank start leaning it out and making final tuning adjustments. After the engine is broken in, recommended starting carburetor settings are: Top End: 3½ turns out. Bottom End: 1 turns out from flush-flush.

Step 15. Running the First Tanks in the CEN vehicle By now you should have fully broken in your engine. Hopefully you took your time and broke the engine in correctly. When driving the CEN vehicle

drive it on flat smooth surface like the street first. Make sure that your steering trim is adjusted correctly and that the CEN vehicle tracks straight. There is also a dual rate adjustment for the steering. This will adjust how much steering throw you have. (How much the wheels actually turn)

Step 16. Engine Tuning (adjusting the high-end needle)

Now your CEN vehicle and engine should be up and running well. The overall performance of the engine is determined by how lean you run the engine. The "leaner" the engine the faster it will go, and the hotter it will run. You want to find the point where it's running very well with lots of power but not running too hot. If you don't see a light stream of blue smoke from the exhaust it may be to lean. You then need to richen up the top end. (Screw with brass sleeve around it) All of the engine adjustments listed above is not certain because of variations in type of fuel, brand, %nitro, humidity, elevation, ECT. If you want your engine to last longer run the engine at a lower temperature. If you want all out speed then run the engine hotter and engine life will be less. Preferred engine temperature is around 220-240'F.

adjustments make sure you do it in small adjustments.

Step 17. Fine Tuning low-speed Mixture and Idle screw. The low-end needle should be pretty close to correct setting at 1 turns out from flush. The best way to check the bottom end adjustment is by listening to the way the engine idles. If the engine idle rises the bottom end is lean, if the engine idle drops its too rich. When making any needle Step 18. Installing the Body Clips Align the holes in the body with the body mounts. Then install the pins through the holes in the mounts. You may adjust the height of the body with the lower body clips.

Step 19. This is the most important step of all Have fun and drive safely. Show your model the same respect as you would driving your full size car or CEN vehicle. The CEN vehicle travels at high speeds and can handle jumps and ruff terrain but don't get too crazy.

Steps to follow After you're Done Running your Engine. Step 1, Burn all the fuel out of the engine by putting the glow igniter on the engine and attempt to start the engine. The engine will start if there is

enough fuel still in the fuel line; do this until the engine will not start. Step 2. Take the glow plug out and put a few drops of after run oil into the engine. After run oil is available at most hobby shops.

Precautions that Must be Taken

- Because there are electrical components on the CEN vehicle it should not be ran through water, wet grass, mud or anything else that may get water
- inside the electronics.
- Avoid leaving the glow heater on the glow plug any longer then needed to start. The heater will burn the glow plug out if left on too long.
- Do not drive the CEN vehicle when your radio is showing low battery voltage. Do not drive your CEN vehicle at night, on public streets, or in large crowds.
- Do not drive if the servos are slow or unresponsive, this usually means your batteries are low, replace with new
- Always use common sense when driving your CEN vehicle. Abusive driving will only result in poor performance and many broken parts. User accepts full responsibility for the use of this product.

Most common mistakes made by beginners: 1. Most beginners pull the pull starts out too far and bend the spring. Pull the cord no more then 8 inches out. If you get to the end of the cord you will

- bend the spring and it will not recoil correctly. 2. Avoid pulling the pull starter if you engine is flooded. You know your engine is flooded when the cord becomes very difficult to pull. To get excess fuel
- out of the engine simply remove the glow plug and turn the engine upside down. Give the pull starter a couple of pulls and excess fuel will come out.
- 3. If you leave your glow heater on you glow plug when you not trying to start it the glow plug will burn out very quickly. Only put the heater on when
- you're ready to start the engine. 4. Make sure you unbundled the antenna wire and stand it up using the supplied antenna straw.

General information

Irregular idling

High-end Mixture Controls the fuel mixture at high R.P.Ms.

- Low-End Mixture Controls the fuel mixture at low R.P.M.s
- This term is used to describe the amount of fuel entering the carburetor. Lean means less fuel. Turn carburetor needles clockwise for a leaner setting. Running too lean will damage your engine.
- This term is used to describe the amount of fuel entering the carburetor. Rich means more fuel. Turn the carburetor needles counter-Rich Setting clockwise for a richer setting.
- CEN engines come standard with a CEN G70429 glow plug. You may also use most standard or short glow plugs. Always make sure Glow plugs you are using the copper washer that is supplied with each glow plug.
- Air Filter The air filter is very important to an engines life. Keeping it clean and oiled will increase performance and engine life. **Pull Starter** When removing the pull starter be careful with the spool, which is spring loaded. Use a small screwdriver to gently push the spool off the output shaft
- CEN Racing offers an electric Roto-Starter for the GST7.7 engine. CEN Recommends you don't install the starter until you have ran Electric Starter

at least one gallon of fuel through the engine. When the engine is new, the pull starter may be hard to pull. You may loosen the glow plug to make it easier to start. Once the engine has started, re-tighten the glow plug. After the engine is broken-in properly, you will no longer need to do this.

Description	Problem	Solution
Engine Stalls	Idle set too low	Turn the idle screw to the right
	Bad glow plug	Replace glow plug
Engine losses power	Engine overheating	Richen the main needle
Cant start engine	Old fuel left in the tank	Pour out and replace fuel
	Glow heater not charged	Charge glow heater overnight
	Idle set too low	Hold 1/2 throttle and start engine. Adjust idle screw

Richen up the bottom end 1/4th of a turn

bottom mixture too lean

- * The CEN Racing Roto-Tech starter has been released to give you an alternative to traditional pull starters.
- * The Roto-Tech starter includes everything you need to start your truck using an electronic 7.2-volt hand held starting unit (included).
- * This greatly reduces the amount of time and effort spent starting your engine.



- Roto-Tech Starter Includes:
- * 7.2-volt Hand Held Starter Unit
- * Heavy Duty Starting Shaft
- * Heavy Duty Starting Back Plate Assembly
 - * All Required Hardware
- 7.2v Battery and charger not included.

How to set Correct Gear mesh

You need to make sure that your clutch bell gears (GS090 and GS089) are correctly spaced in relation to the spur gears (GS088 and GS087). Below are some pictures showing the correct spacing and the wrong spacing. Included with these instructions are engine, and clutch bell shims. Use these shims to achieve the correct gear alignment. This is critical to the life of your spur gears.

First you will have to remove the engine from the truck. Refer to your GENESIS manual on how to remove the engine from the truck.

Next you will have to take the clutch bell (GS079) off the engine's crankshaft. Unscrew the 3x8mm screw that is holding on the clutch bell. Remove the clutch bell. Note: Be careful to not lose the 3mm washer and the two 5x10x4 bearings (G73902).

To correctly shim the clutch bell, use the shims provided. The small shims are for use on the engine's crankshaft. Slide them onto the shaft before putting on the clutch bell. (Moving the clutch bell further out on the shaft)

The larger shims are for spacing the clutch bell gears (GS090 and GS089) further apart to prevent interference with the opposing spur gears (GS088 and GS087).



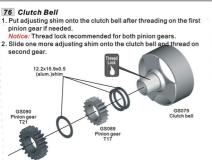


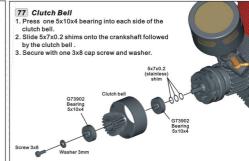
Correct Way!

Notice where and how the gears are lined up in each picture. Make sure that your Gear mesh matches the picture on the left. This is very important, in doing so your spur gears will not chip or shatter.

Shim Installation (Genesis)







G10500 20040901

Genesis 2rd and 3rd

The Genesis GST46 comes with advanced three speed transmission that when adjusted correctly will give you wheelie pulling, low-end power, and blistering top speeds. These instructions below will help you set both the2[™] and 3[™] speed correctly.

2nd Speed Set-up

The second speed adjustment screws can be found by looking through the hole on the spur gear hub. The screws are offset, so you will need to have them at an angle to see them. Refer to page 8 diagram 25 in your assembly manual for a better understanding of the adjustment screws placement. When moving from one screw to the next hold the hub with your finger

screws placement. When moving from one screw to the next hold the hub with your finger and roll the truck. You will see the clutch shoes move, roll the truck until you find the next adjustment screw. Tightening the screws will increase the tension on the springs which will make is shift later. Loosening the screws will allow for an earlier shift point. This works the same for both the $2^{\rm nd}$ and $3^{\rm nd}$ speed shifters.

When adjusting the shift point you must adjust the two screws as evenly as possible. The screws are color coated to help you adjust them evenly. Once you have the engine warmed up drive the truck in a straight line. You want the 2^{st} speed to shift in about 25-35 feet from a stand still.



Take a look at the picture to help you find the adjustment screws.

3rd Speed Set-up

The 3^{nd} speed adjustment screws can be found by removing the dust cap on the right side of the central transmission. The screws are offset in a similar fashion like the 2^{nd} speed adjustment screws. Refer to page 6, diagram 17 for a better understanding of the internal setup.

The 3rd gear should shift when you hear the engine almost wind out. Make adjustment to each screw in very small increments, no more then 1/8th of a turn at a time. Try your best to adjust the vos screws evenly. They are color coated to help you make even adjustments.

Starting shift settings for each shift unit are below. These are the number of turns you should loosen each screws after you have tightened each screw all the way down. Be careful not to crush the springs.

2nd Speed 5 turns out

3rdSpeed 71/2 turns out



Genesis Helpful Tips

This page contains useful information to help you enjoy your new truck. Please read and understand all of the following information before attempting to start your engine.

Pull Starter Tips

Do not pull the cord more than 12" out.





Make sure you pull the cord out to the side and not up. Pulling the cord up like shown in the picture on the right will cause the cord to snap.

* You may want to loosen the glow plug slightly to reduce the compression of the engine. This will make it easier for you to pull the cord. Once the engine has started, tighten down the glow plug. After the engine is broken in you will not need to do this anymore.

Glow Plugs

You should periodically check the condition of the glow plug. Glow plugs may be damaged from a number of things including, leaving the glow heater on too long, running the engine out of fuel when revved up, and even just sitting around and not being used.

First take the glow plug out and look at the coil. The coil should not look burnt or bed ben up. Next take the glow plug and put into your glow heater as shown below. You should see the coil glow bright orange. Be careful not to touch the coil. It may burn your finger.



