

Assembly Guide

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A new benchmark of Low Center Gravity on 1/27 Mini RC – GLR-GT

Ver00

GL Racing and Development Team conducts a wide research and consulation for 1:27-1:28 scale RC car racing and the GLR-GT is developed and test intensively on track by GL Team Drivers and group of experienced RC car players.

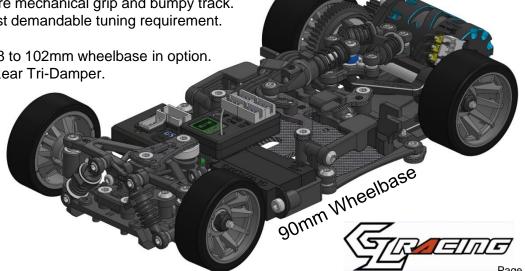
Performance is always our goal with no compromise for case of drive, adjustment, maintainence and optional upgrade. All levels of player will be benefited by a proper setup GLR-GT chassis for at least 0.5sec or more faster in average lap-times.

Traction roll is substantially reduced by further lowering down the CG, new suspension design and geometry:

- 1. "One layered" electronics layout without stacking to achieve the lowest and optimized CG.
- 2. Micro but most-wanted "Cable Routers" to ensure obstacle-free rear subframe movement.
- 3. "Roller-Bearing" side shock mechanism for more stroke, sensitivity and centered gravity.
- 4. New Long Doubled-Wishbone front suspension and geometry for less traction roll.
- 5. Less traction roll even with lighter springs for more mechanical grip and bumpy track.
- 6. New optional Front Anti-Roll Bar for fine and most demandable tuning requirement.
- 7. New Slide Linkage design optimized positioning.
- 8. Few conversion parts for switching in between 98 to 102mm wheelbase in option.
- 9. Stock adjustable and optional tuning Front and Rear Tri-Damper.
- 10. Aluminum Motor Mount for best heat dissipation.
- 11. Full and high quality ball bearing.
- 12. Lightened and ultra-smooth rear ball differential.

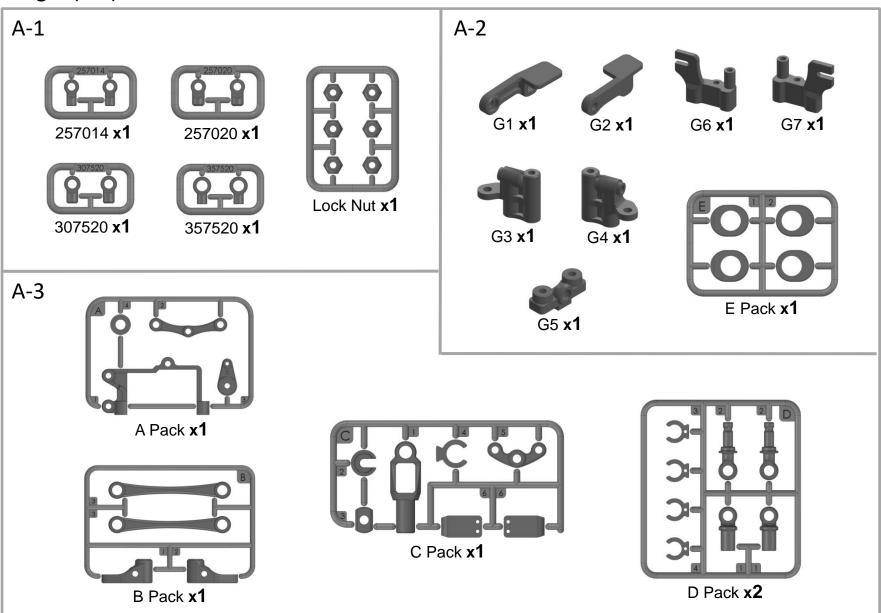
GL Racing products are designed and developed in Hong Kong. Our high-end and performance product is recommended for player with age of 14 or over.

Thanks for choosing GL Racing.



Bag A (1-5)





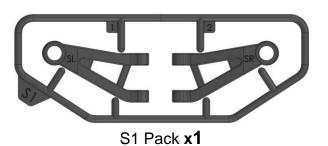




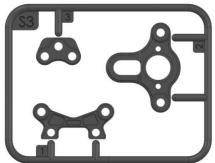










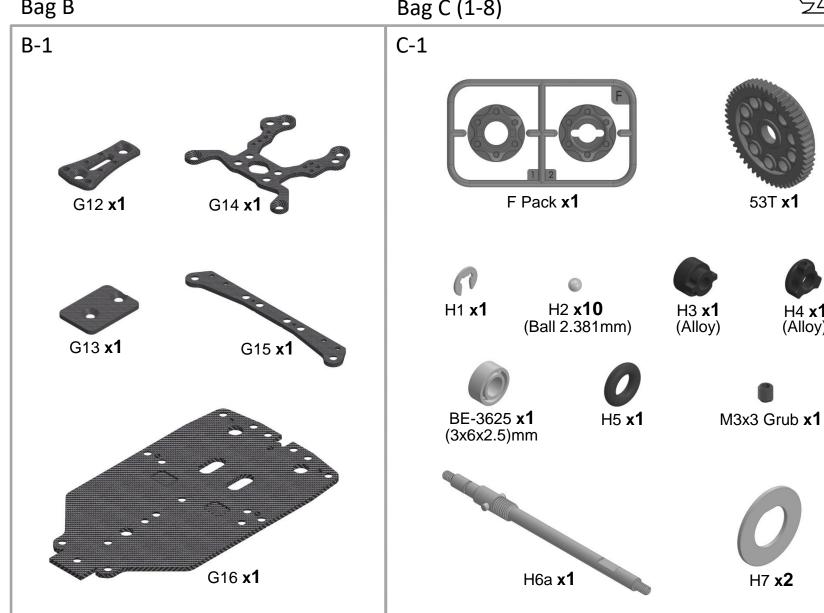






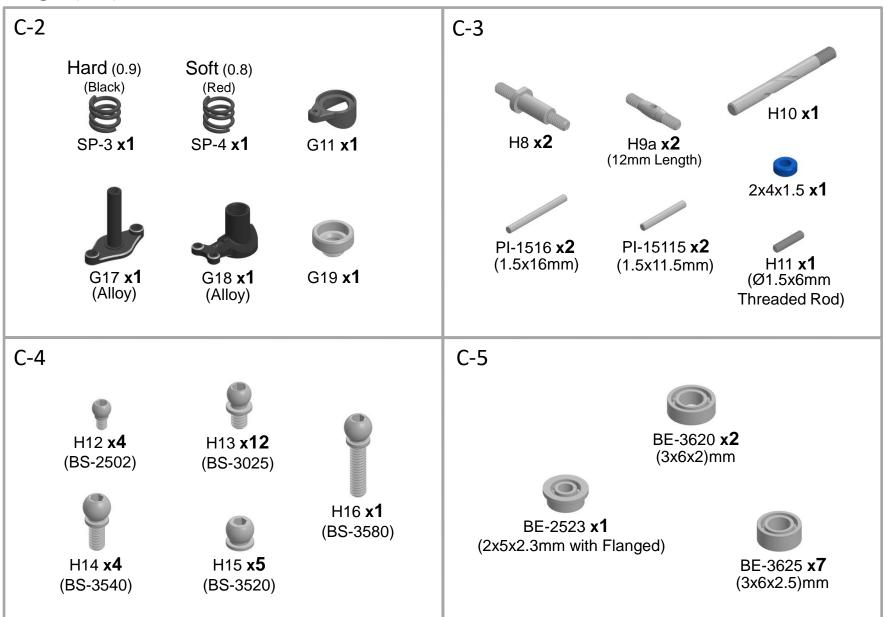


H4 **x1** (Alloy)



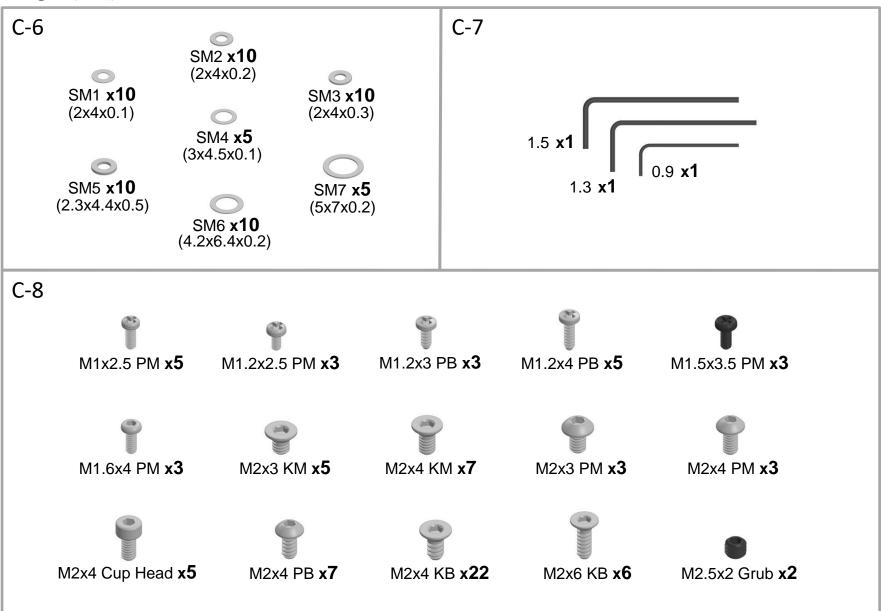
Bag C (1-8)





Bag C (1-8)

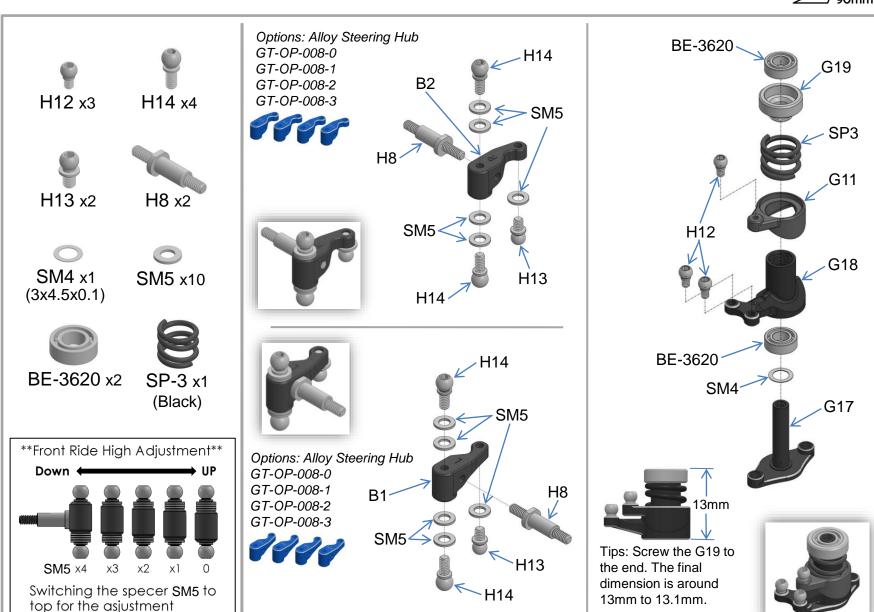




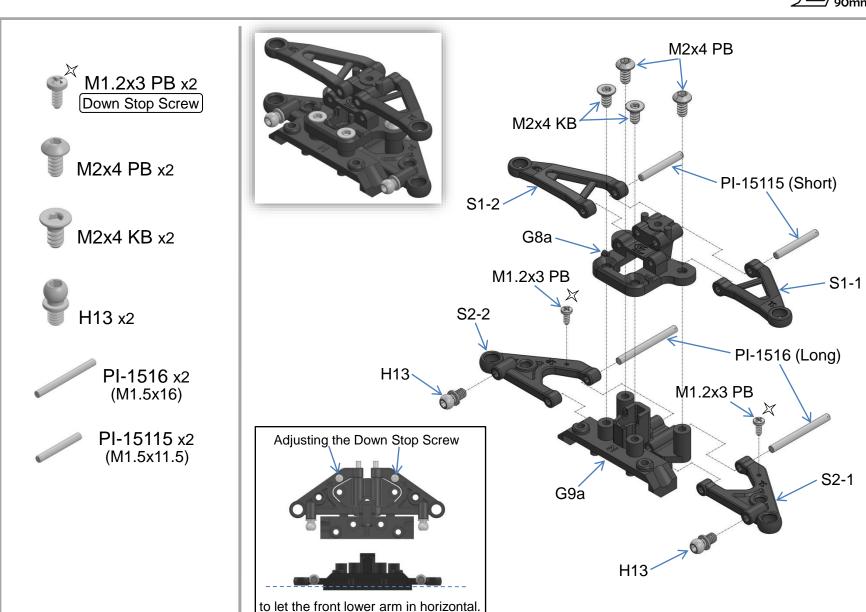


D-1 SP-2 **x1** (Ø6x11)mm GT-S-035 **x1** (GL003 DMG) SP-1 **x4** (Ø5.3x6.5)mm GT-S-036 x1 G20a **x1** (Alloy)

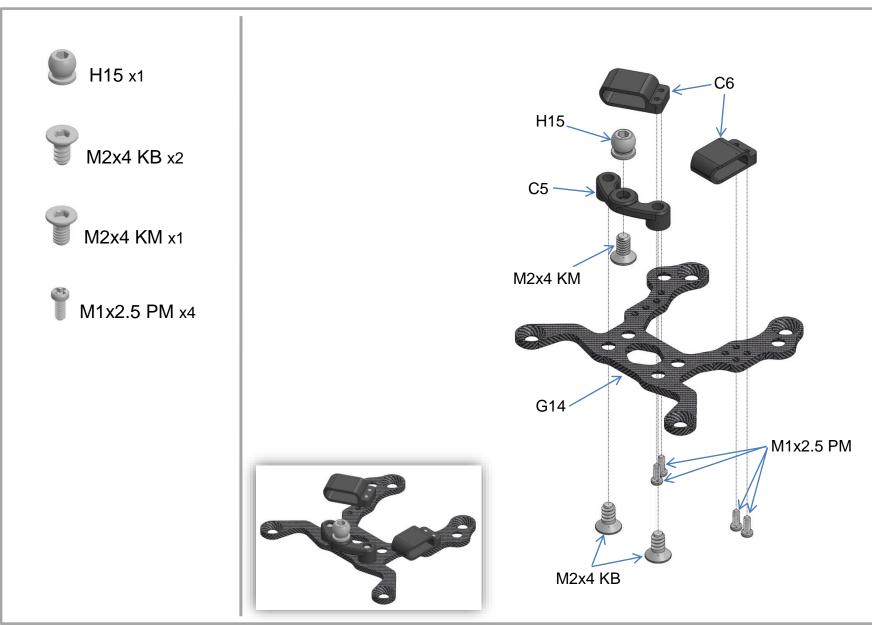








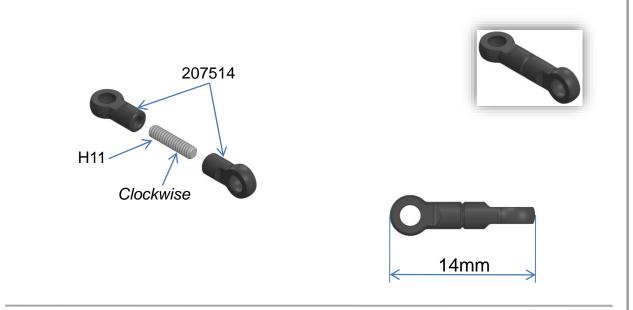








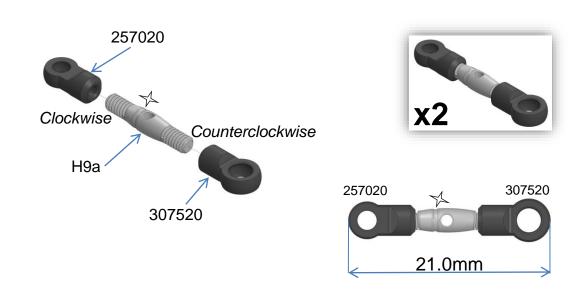
H11 x1 (Ø1.5x6mm Threaded Rod)















M2x4 KB x2



M2x4 x2 (Cup Head)



M1.5x3.5 PM x1



H12 x1 (BS-2502)



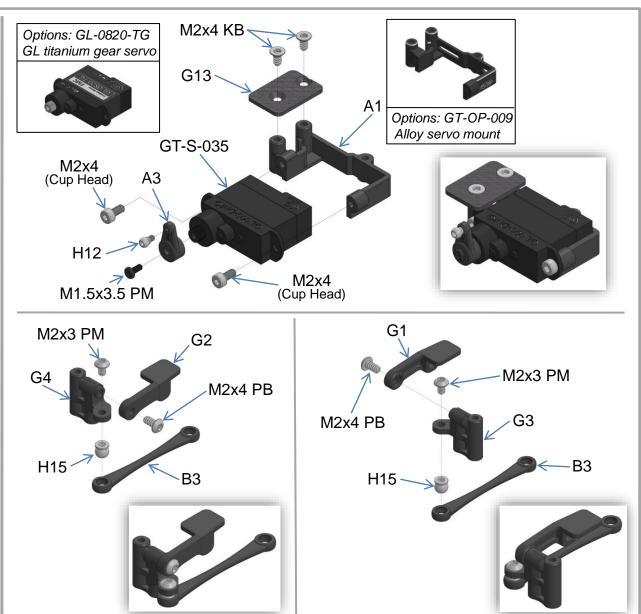
M2x3 PM x2



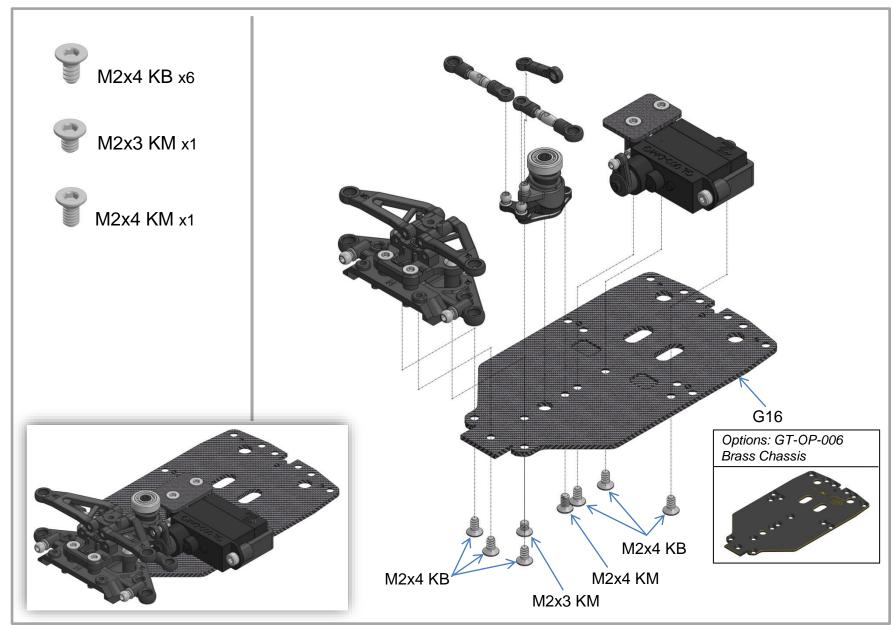
M2x4 PB x2



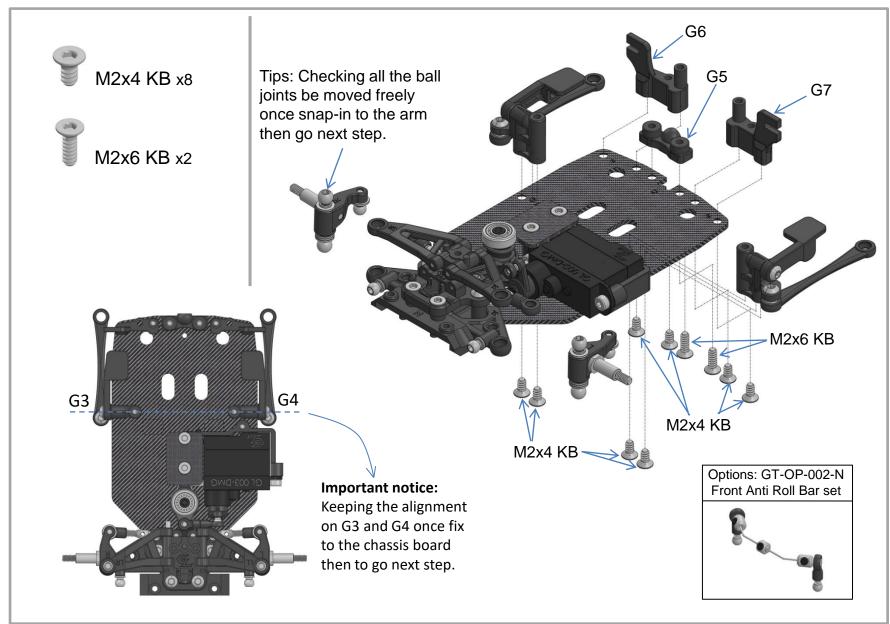
H15 x2 (BS-3520)



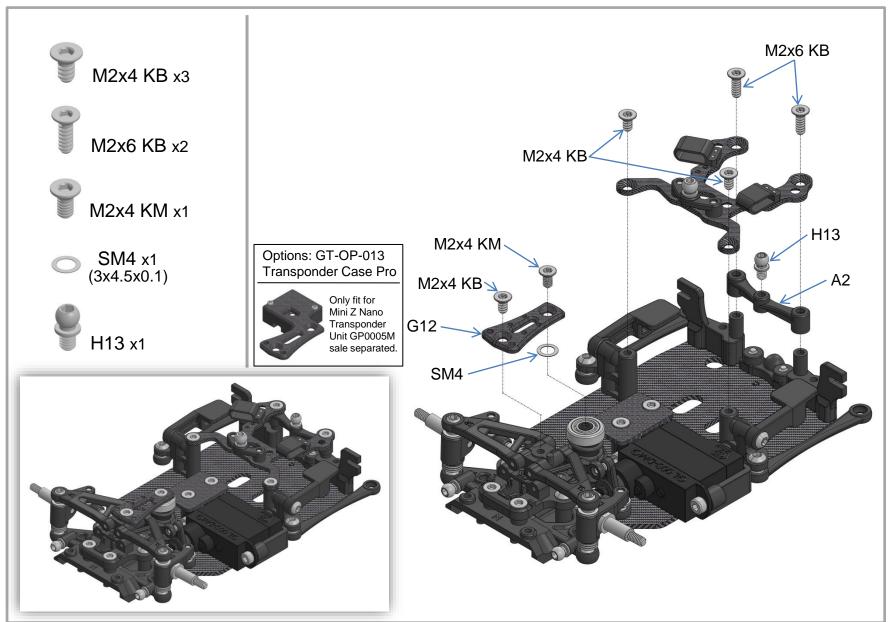




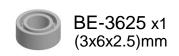








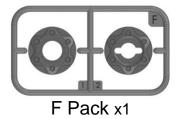


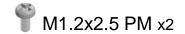


H2 x10 (Ball 2.381mm)

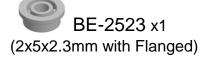


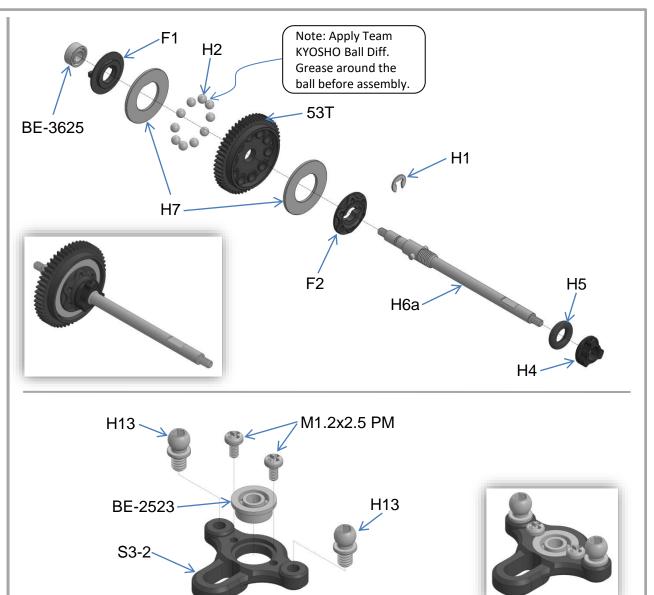
Spur Gear 53T x1















M1.2x4 PB x2



M1.5x3.5 PM x2



M2x3 KM x2



M2x4 KM x4



M2x4 KB x1



H13 x3 (BS-3025)

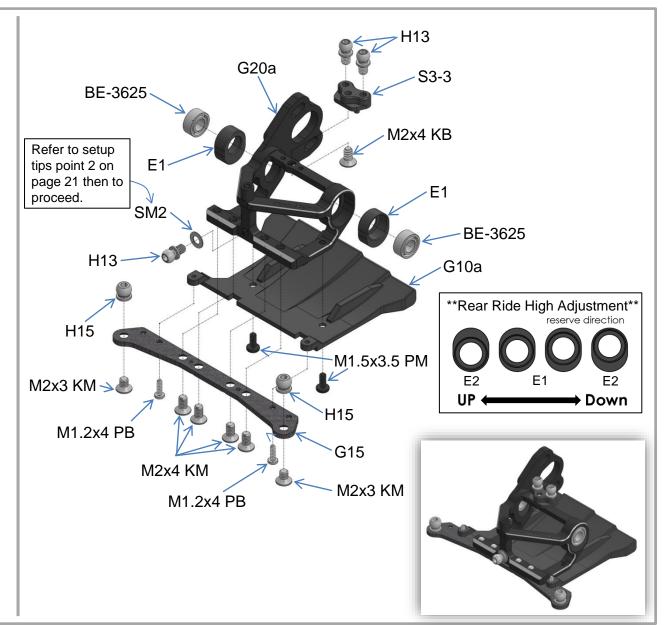


H15 x2 (BS-3520)

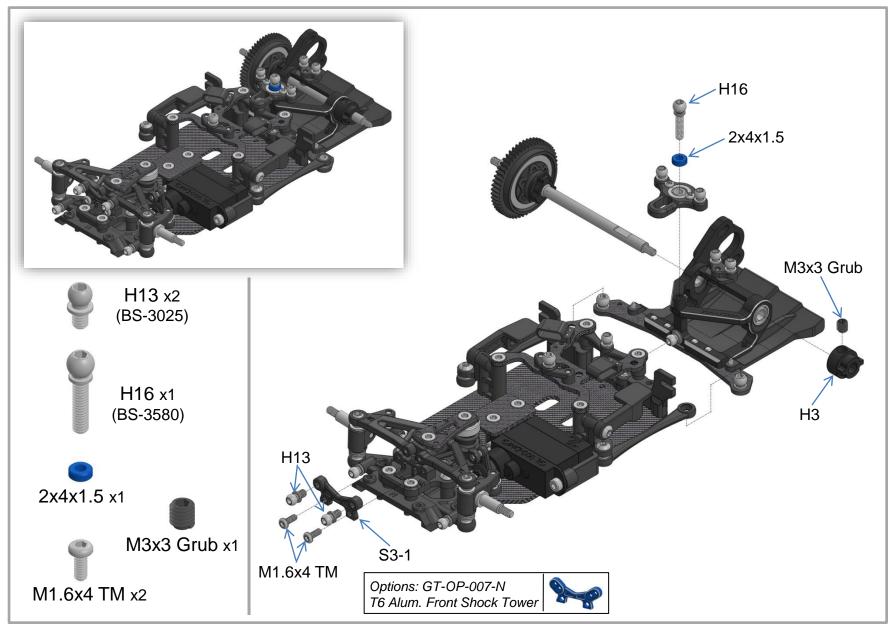


BE-3625 x2 (3x6x2.5)mm

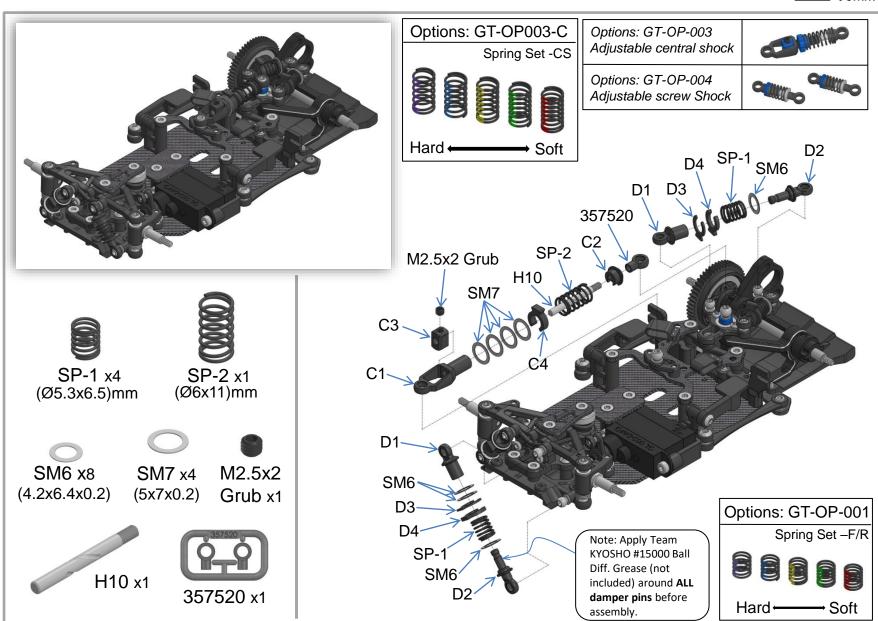
SM2 x1 (2x4x0.2)



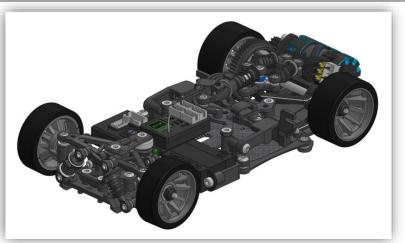














GLR-GT Gear Ratios 53 54 5.78 5.89 6.00 10 5.67 5.20 5.30 5.40 11 4.73 4.82 4.91 4.64 12 4.25 4.33 4.50 4.42 13 3.92 4.00 4.08 3.71 3.79 3.64

12T Pinion Gear

M2x4 Cup Head

BE-3625

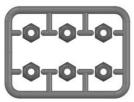
Brushless Motor is **NOT INCLUDED**Recommended 2500KV or 3500KV motor
Available at GL Online Shop



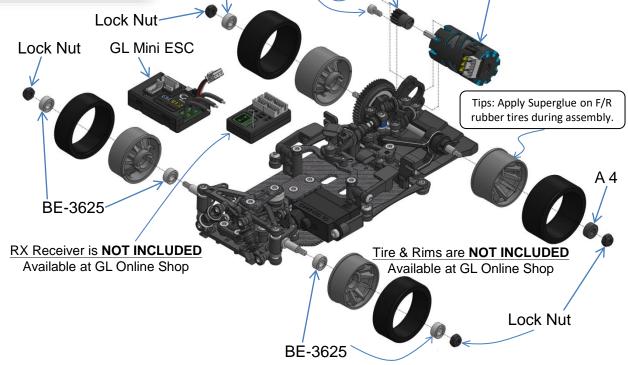
BE-3625 x5 (3x6x2.5)mm



M2x4 Cup Head x2



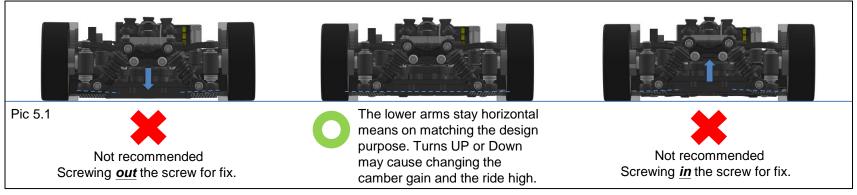
Lock Nut x1



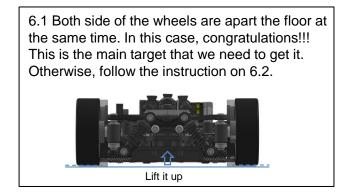
Basic setup/assembly tips before 1st run on RCP Track



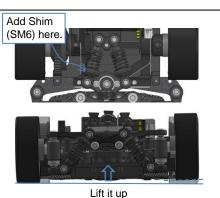
- 1, Checking all the ball joints and movement parts are moving freely. Especially motor and sensor wire are installed.
- 2, Check that the Rear-Subframe (P-17) can move very freely after assembly, check shim amount for best free movement. Please refer to the link "http://gl-racing.com/GLR/v1/guide/#rear_subframe" for more setup and assembly details.
- 3, Applying suitable grease on ball differential (P-16) and Shocks (P-19) which is as thinner as possible and just wrap around the pin is enough. Don't put too much for being maintain frequency.
- 4, Tire around the Rims (P-20) must be fixed with Superglue (Aron Alpha).
- 5, Set the front lower arms both left and right in horizontal. See below Pic 5.1
 - Use cross type screw driver to adjust the screw which is located in backward of the front lower arm. See page 9. NO DOWN STOP IS REQUIRED IN FIRST SETUP. Applying down stop may cause steering sensitive which depends on the traction of the RCP track.



6, Check the chassis left / right balance. Install wheels in same diameter and place on flat floor. Lift the front up to see left and right wheels apart from the floor, you will see 2 situations below.



6.2 One of the wheel apart the floor first. For example, if the **left** wheel apart first, adjust the **right** side damper (above the motor) in adding the shim (SM6) until both wheels apart the floor like 6.1. If the right wheel rise up first, do the same on other side.



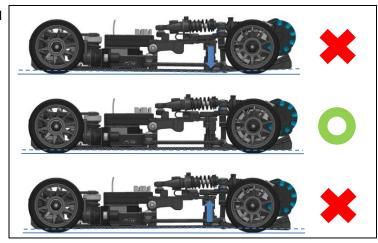
Basic setup/assembly tips before 1st run on RCP Track



Tips: If the car is new or just re-builded, suggest to do point 6 first then to plug sensor and soldering motor wire. It will effect the result if the length of all wires are not suitable. It means that if you did nothing wrong, you will have the same result after all wire installed.

- 7, Keeping the spring preload on **SIDE DAMPER** even if you change the options **GT-OP-004 Adjust Screw Shock**. The spring should be keep in touch of both end during extend and depress in valid of travelling. This issue may help the chassis running stable. Another if change the tension of the side damper, go back to check the point 6 to ensure the chassis L/R balance.
- 8, Check the chassis Front and Rear are staying straight. Detach the C3 first (page 19). See pic below 8.1.

Pic 8.1



Waist Down

- ← If the situation is on the left, add the SM7 (see page 19) until the chassis Front and Rear going straight.
- If the situation is on the left, congratulations!!! Put back the C3 (page 19) and check again the waist stay straight then to race.

Waist up

- ← If the situation is on the left, remove the SM7 (see page 19) until the chassis Front and Rear down to straight.
- 9, Adjust with NO GAP (no down stop) on Central Shock. See pic 9.1.

Pic 9.1



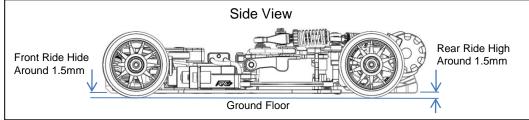
Adjust the C3 (page 19) with NO gap but need to keep the point 8 Front and Rear chassis in straight. This Gap = Down Stop for having unstable in all the time running on the high traction RCP track.

Basic setup/assembly tips before 1st run on RCP Track



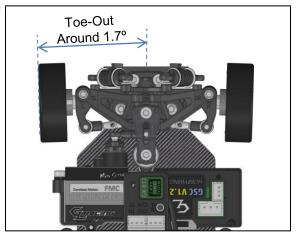
10, Adjusting ride high around 1.5mm on front (P-8) and rear (P-17) before run. See pic 10.1.

Pic 10.1



11, Adjust the length of Steering Rods (P-11) in between 21.0mm to 21.3mm. See Pic 11.1. Shorter may cause toe-out (recommended) for stable in cornering and running straight. Adjust it longer may cause less toe-out to toe-in for steering sensitive.

Pic 11.1



Steering Rod length

21.0mm is around toe-out 1.7° per side

21.3mm is around toe-out 0.2° per side

- 12, For beginner: Motor 2500KV, Front Tire GT0001-S19/GT0001-S20, Rear Tire MZR-V1R05/MZR-V1R10.
- 13. For stock: Motor 3500KV, Front Tire GT0001-S18.5/GT0001-S19. Rear Tire MZR-V1R05/MZR-V1R10.
- 14, For modified: Motor 4500KV or above, Front Tire GT0001-S18.5/GT0001-S19, Rear Tire MZR-V1R05/MZR-V1R10.
- 15, After the body shell installed (Auto Scale or Lexan) to the chassis, check all the moving parts and steering turned no jam before run.

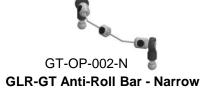
Recommended Basic Options Parts



GLR-GT T6 Alum. Front Shock Tower - Narrow

GT-OP007-N





GLR-GT Transponder Case PRO

GT-OP-013



Brushless sensored ESC

GL-SD-ESC-010T

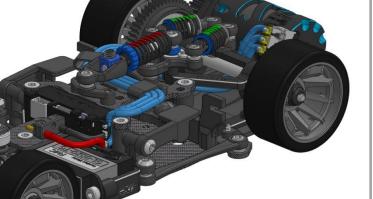


GLR-GT Central Shock - L

GLR-GT Brass Chassis GT-OP-006



GLR-GT Option Spring Set CL GT-OP-003-CL



GL Connector GL-CR-20

GLR-GT Option

Spring Set F/R GT-OP-001











GLR-GT Adjustable Screw Shock

GLR-GT T6 Alum. Servo Mount



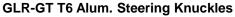


GL-0820-TG GL titanium gear servo

GLR-GT Adjustable Screw Shock

GT-OP-004





GT-OP-008-0 GT-OP-008-2 GT-OP-008-3