

# Assembly Guide

www.gl-racing.com

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

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.

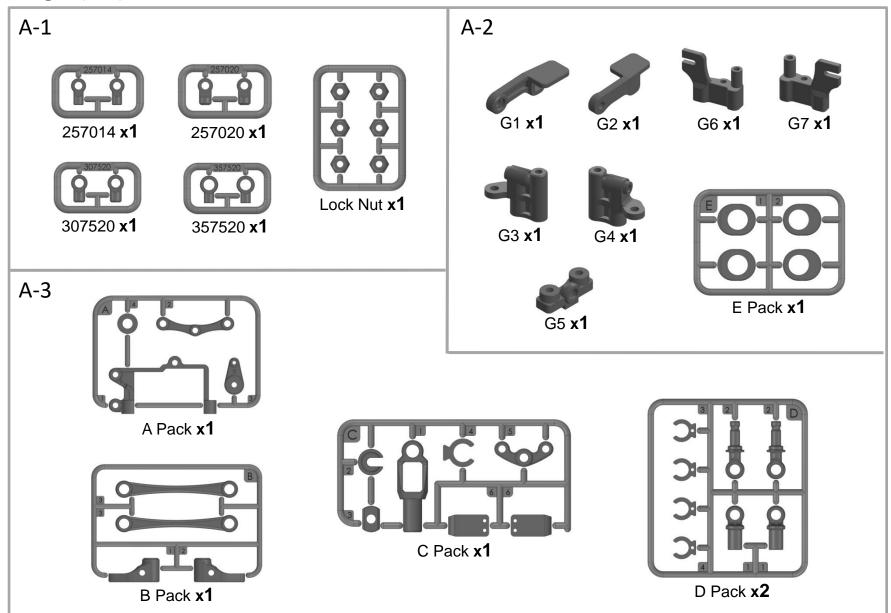
Thanks for choosing GL Racing.



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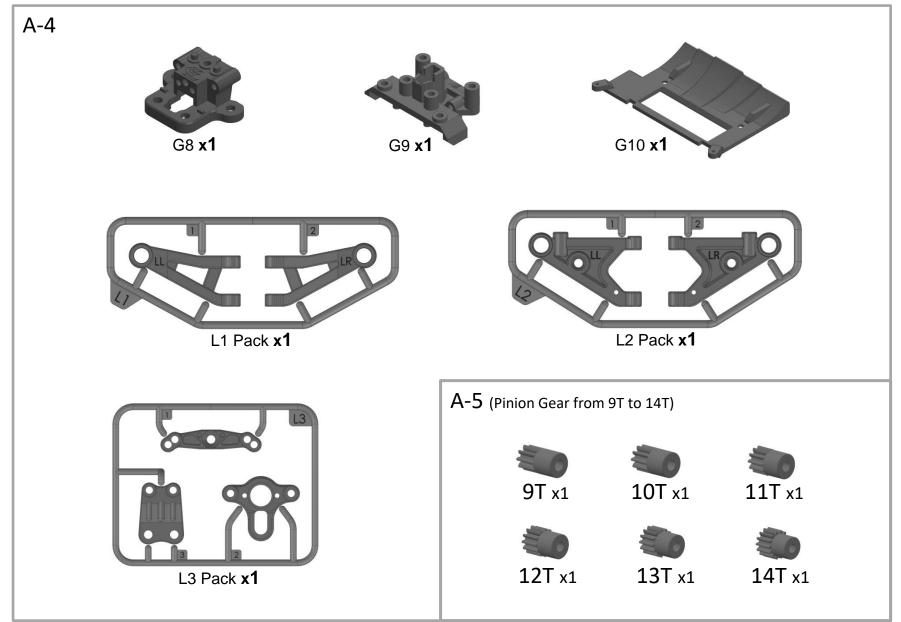
Bag A (1-5)

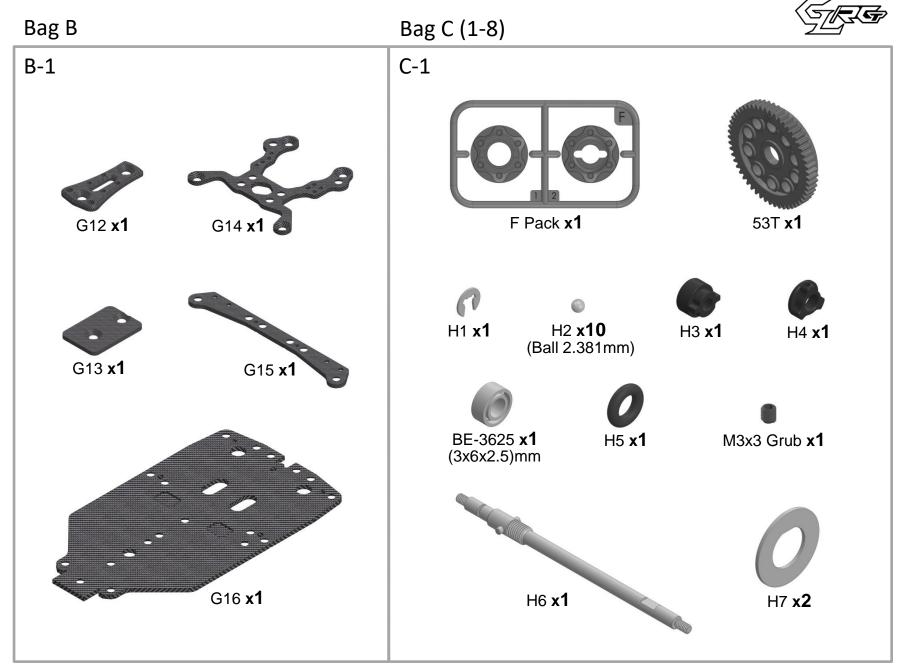




#### Bag A (1-5)

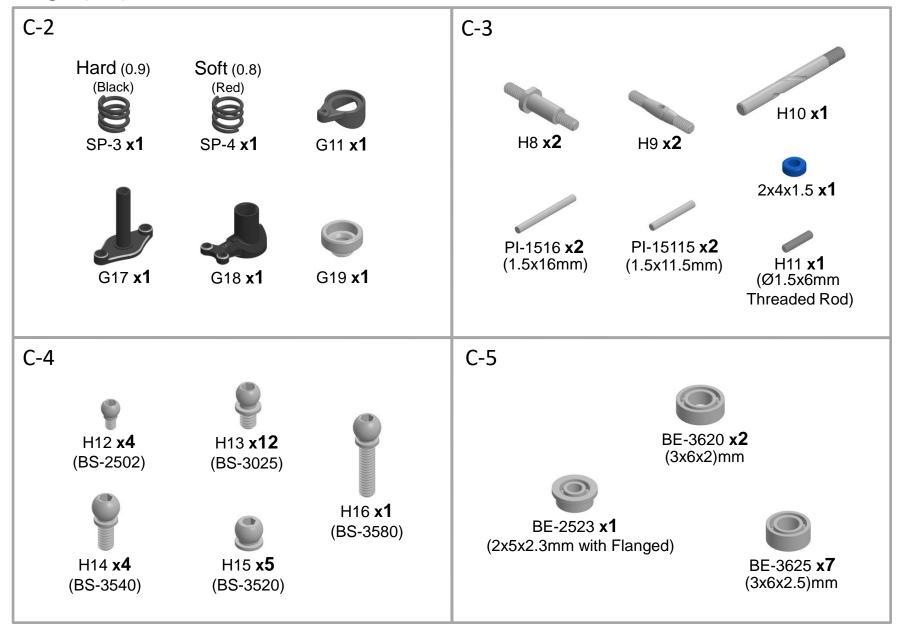






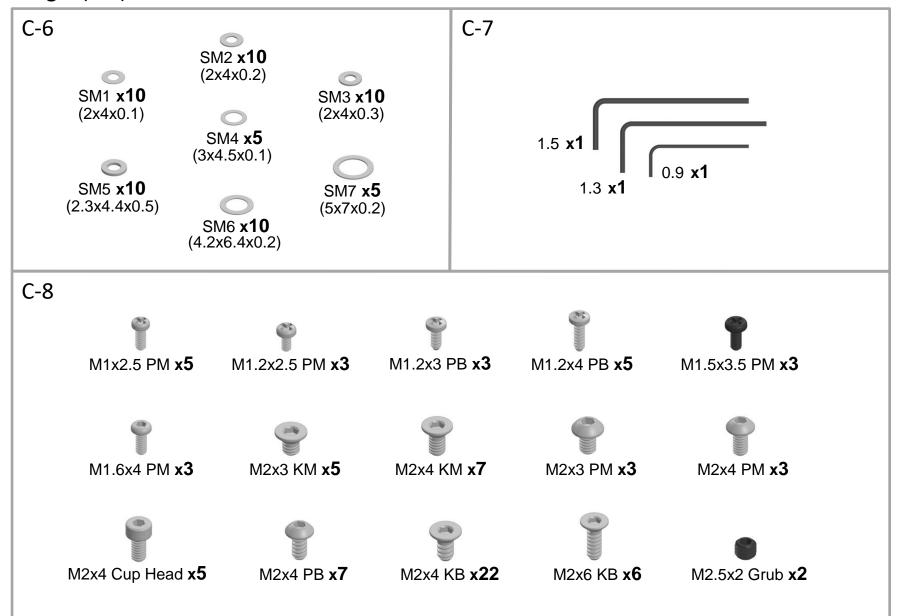
Bag C (1-8)





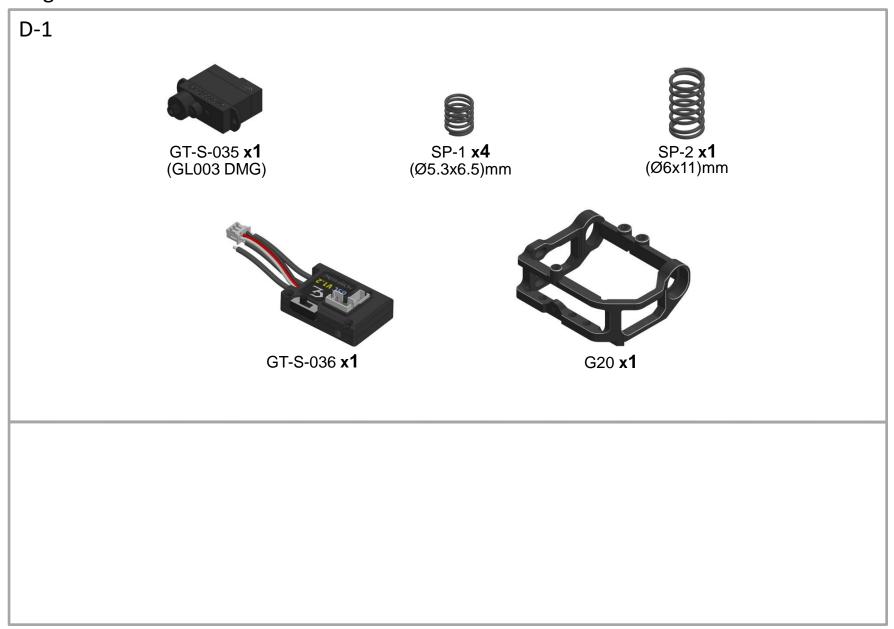
Bag C (1-8)



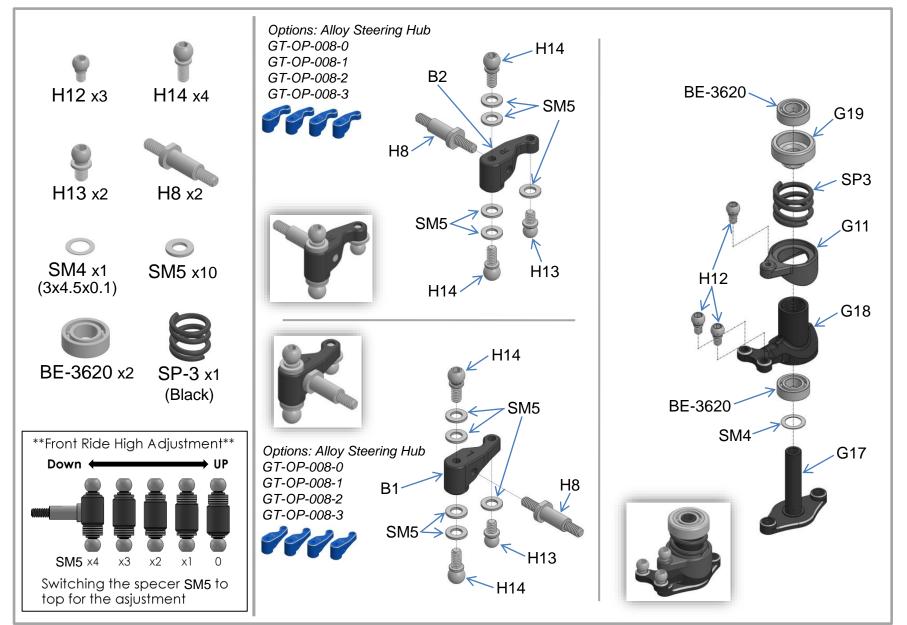


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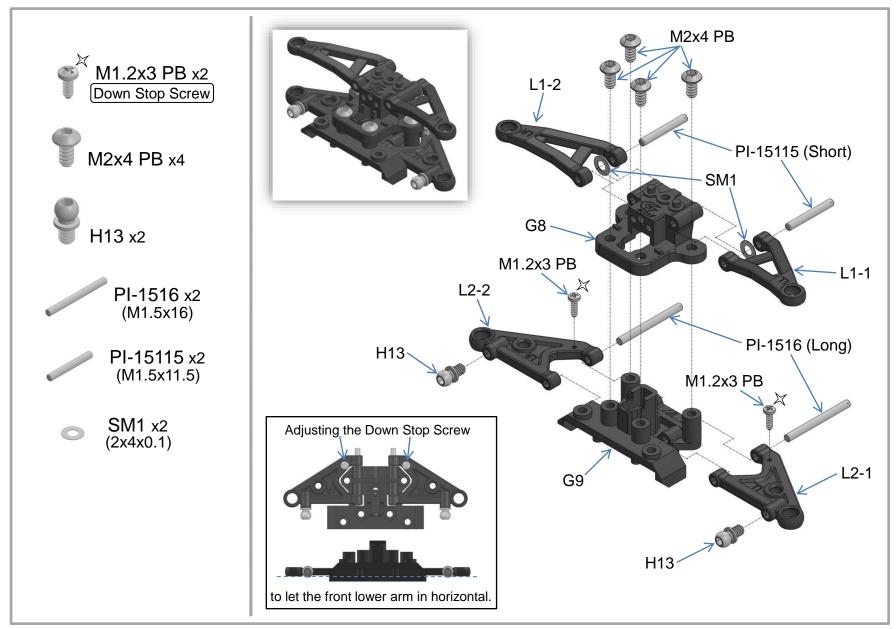




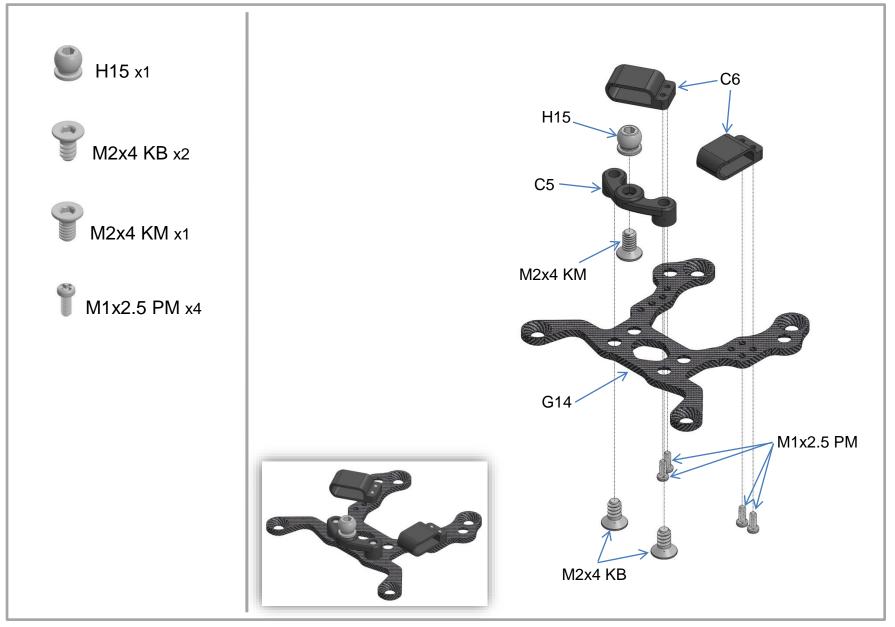




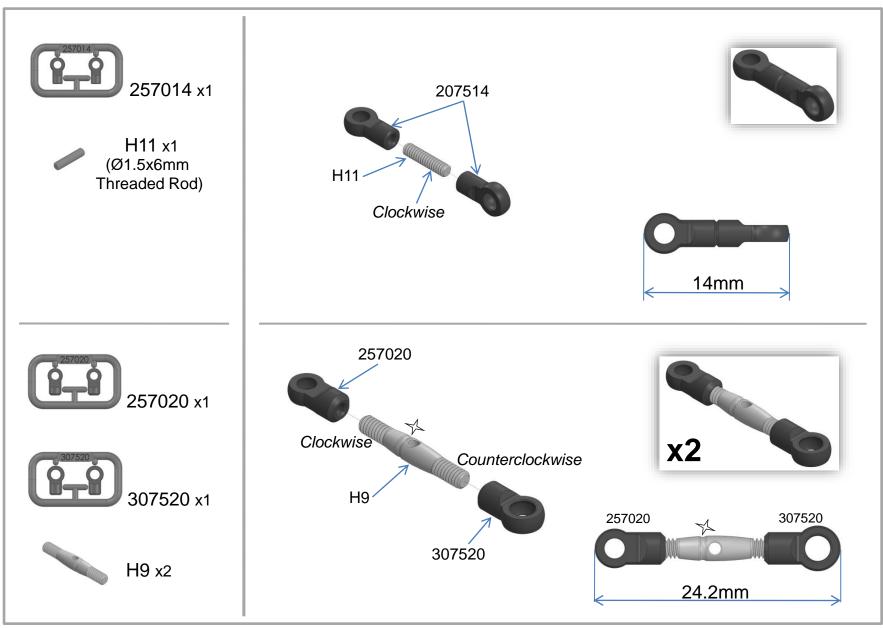




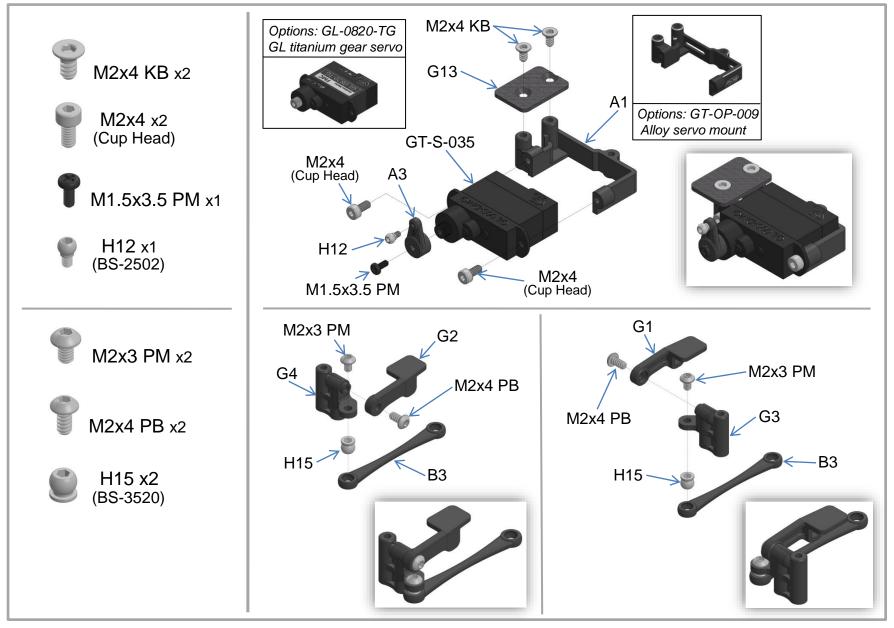




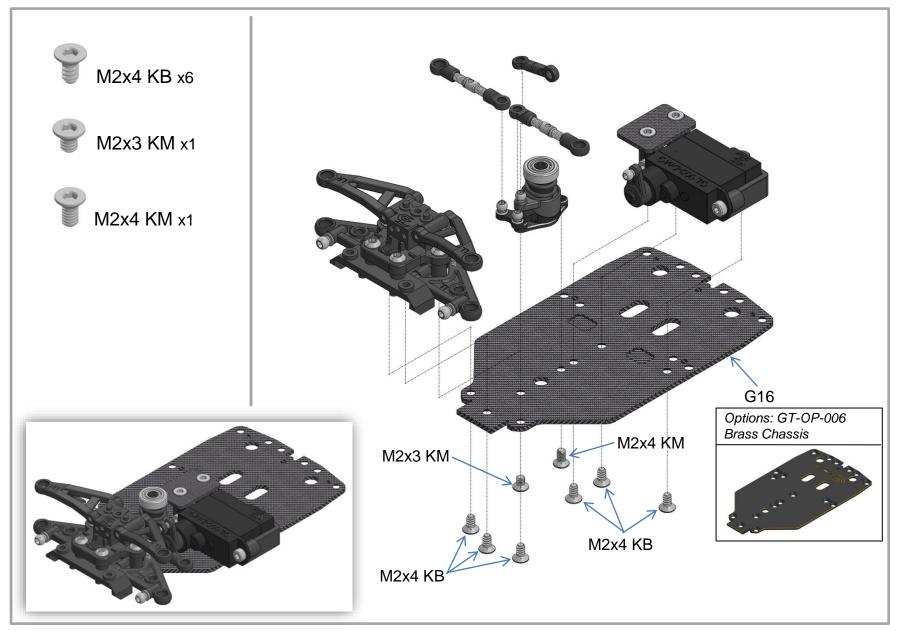




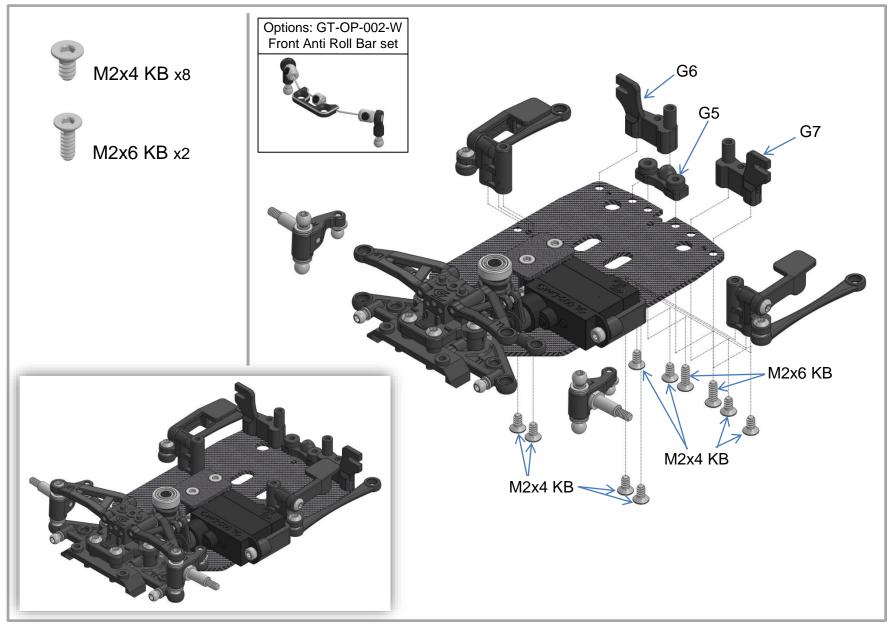




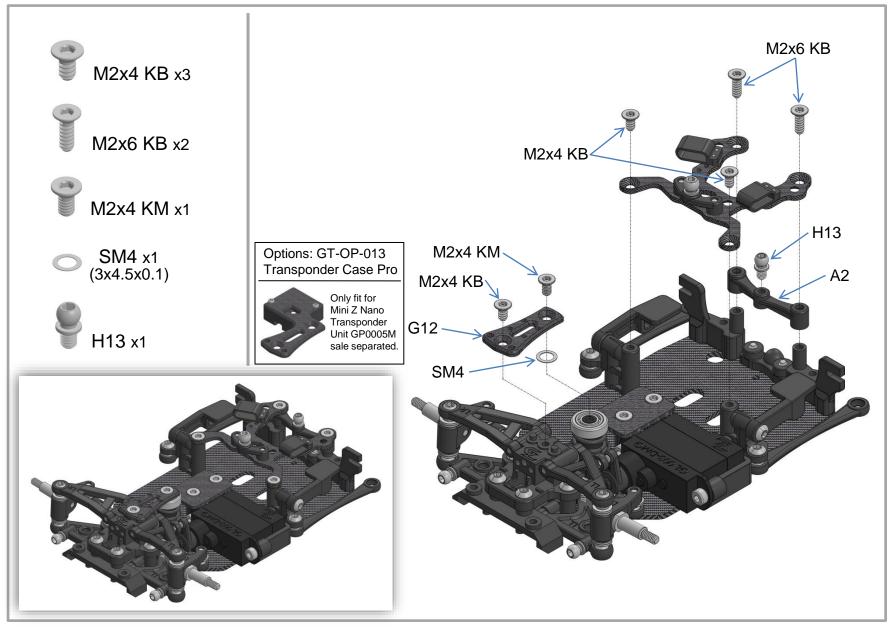




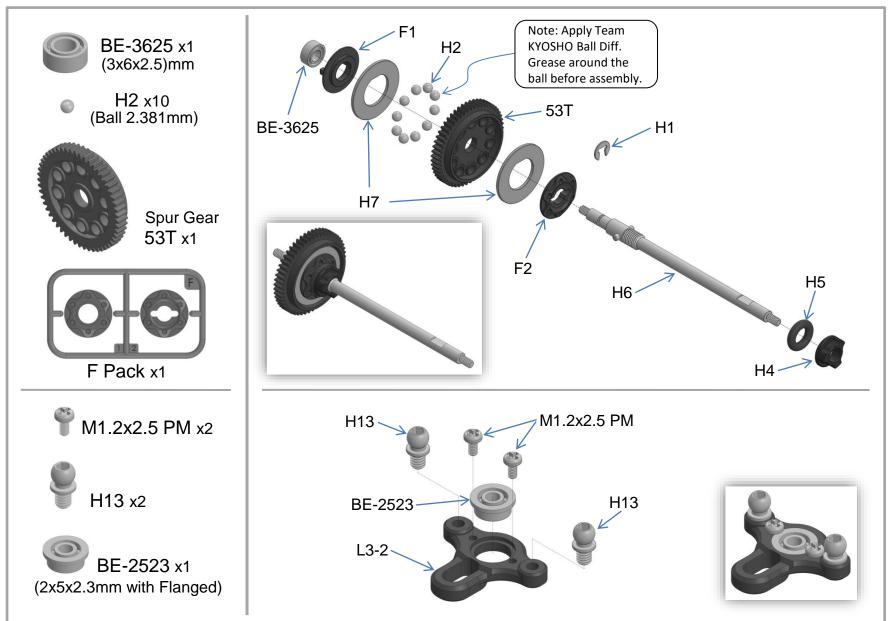




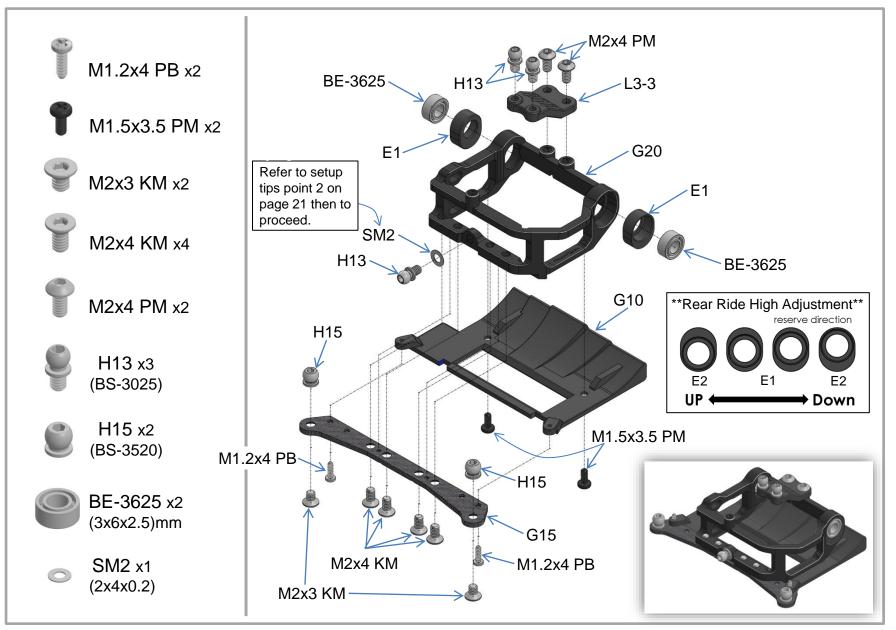




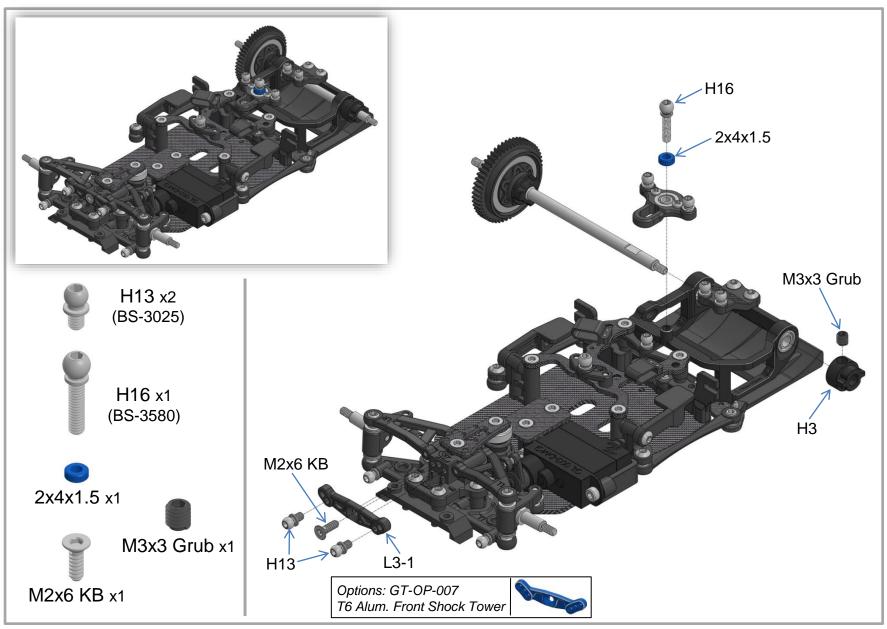




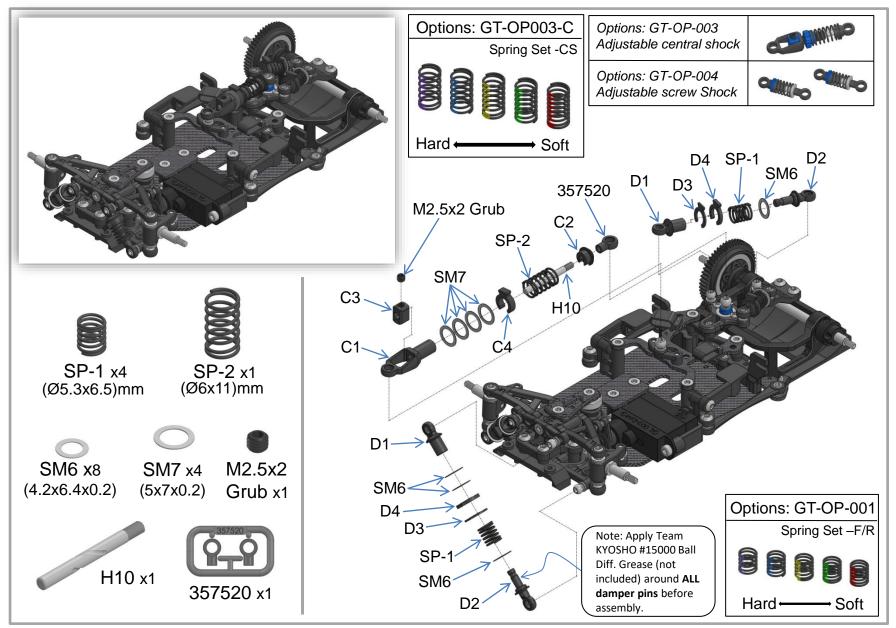




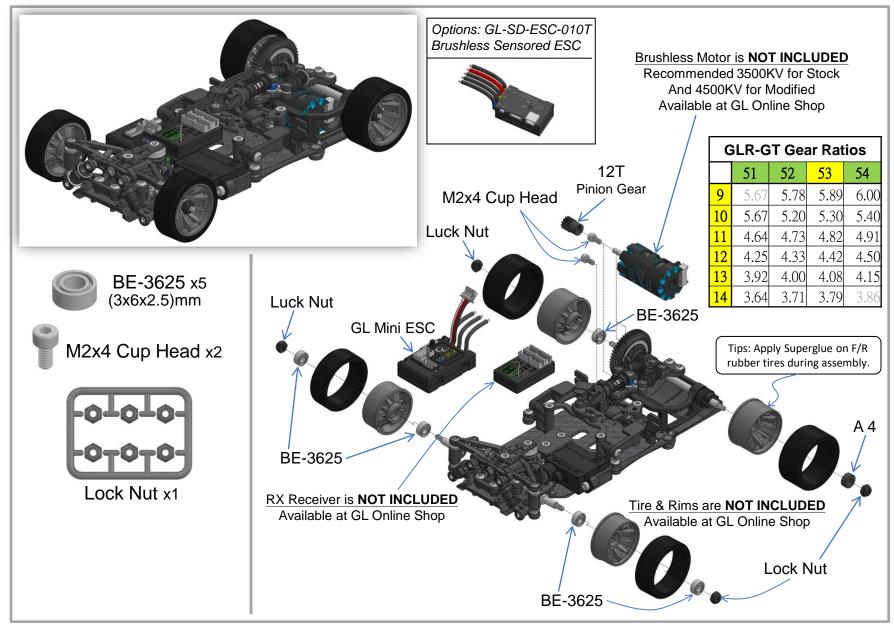








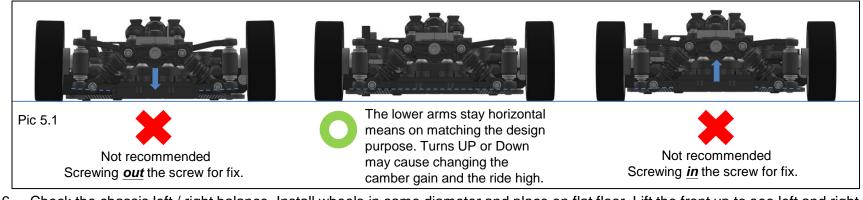




# Basic setup/assembly tips before 1<sup>st</sup> run on **RCP Track**



- 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 for the RCP track.

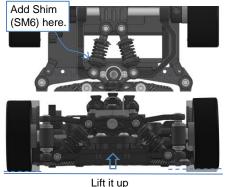


6, Check the chassis left / right balance. Install wheels in same diameter and place on flat floor. Lift the front up to see left and right wheels apart from the floor, you will see 2 situation below.

6.1 Both side of the wheels are apart the floor at the same time. In this case, congratulations!!! This is the main target that we need to get it. Otherwise, follow the instruction on 6.2.



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.

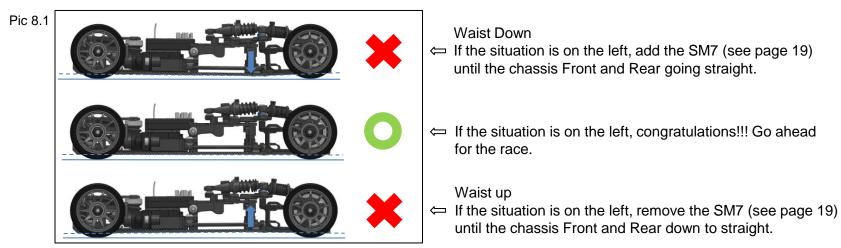


### Basic setup/assembly tips before 1<sup>st</sup> run on **RCP Track**

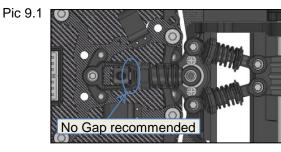


Tips: If the car is new or just re-builded, suggest to do point 6 first then to plug sensor and soldering motor wire. It will effect the result if the length of all wires are not suitable. It means that if you did nothing wrong, you will have the same result after all wire installed.

- 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 change the tension of the side damper, go back to check the point 6 to ensure the chassis balance.
- 8, Check the chassis Front and Rear are staying straight. Detach the C3 first (page 19). See pic below 8.1.



9, Adjust with NO GAP (no down stop) on Central Shock. See pic 9.1.

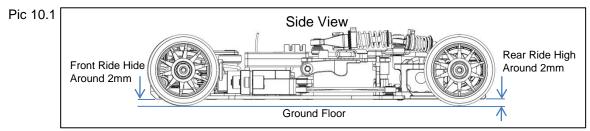


Adjust the C3 (page 19) with NO gap but need to keep the point 8 Front and Rear chassis in straight. This Gap = Down Stop for having unstable in all the time running on the high traction RCP track.

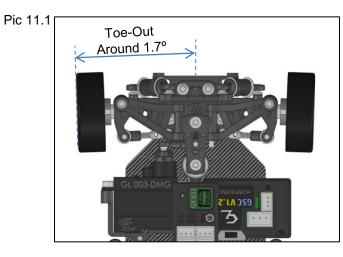
## Basic setup/assembly tips before 1<sup>st</sup> run on RCP Track



10, Adjusting ride high around **2mm** on front (P-8) and rear (P-17) before run. See pic 10.1.



11, Adjust the length of Steering Rods (P-11) in between 24.2mm to 24.5mm. 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.



Steering Rod length 24.2mm is around toe-out 1.7° per side 24.5mm 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/GT0001-S18.5, 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 be freely before run.

#### **Recommended Basic Options Parts**



