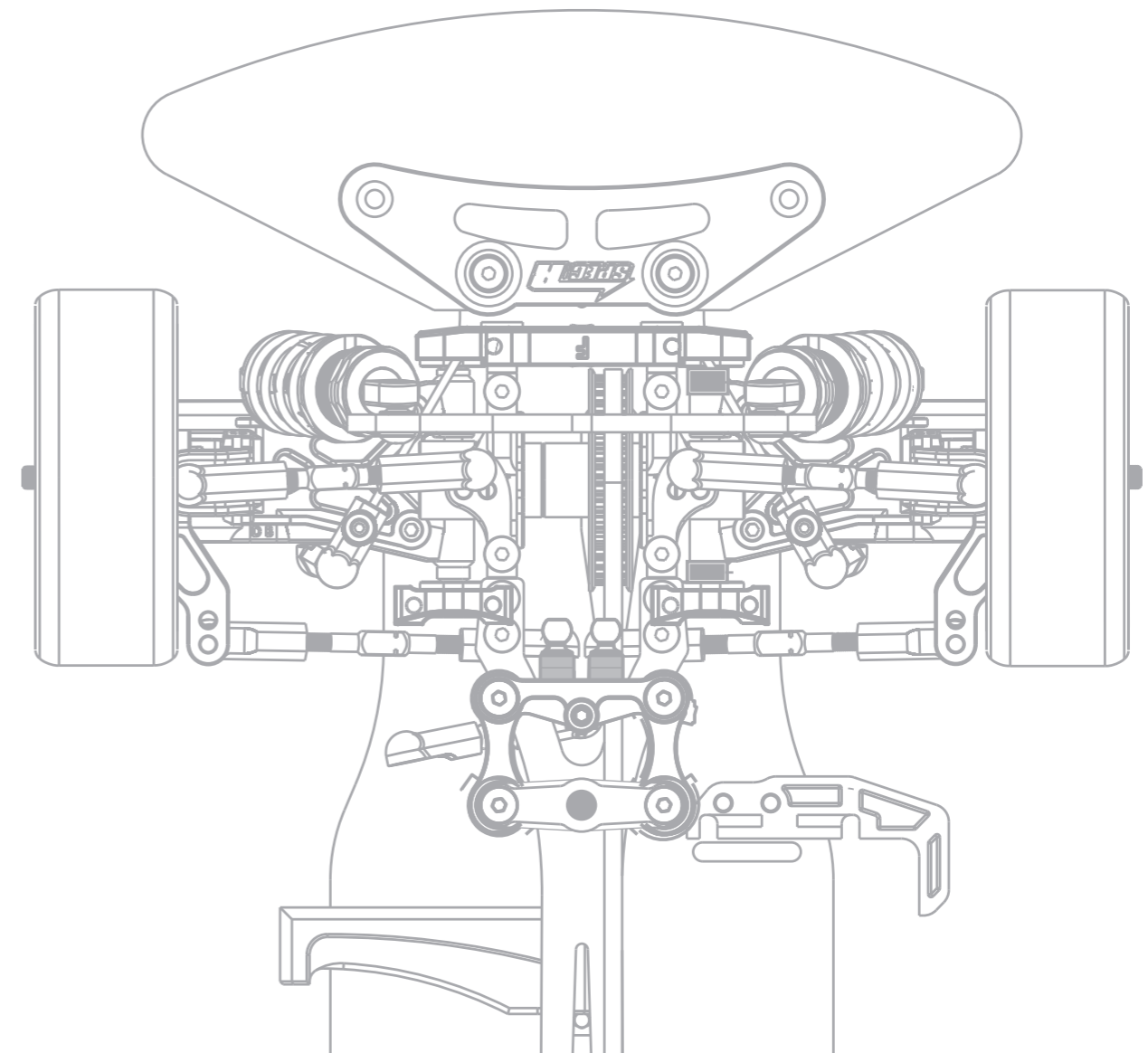


**SPEC R**

**R2**

Instruction Manual  
**Instruction Manual**  
Instruction Manual



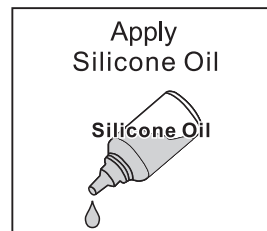
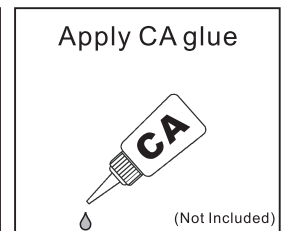
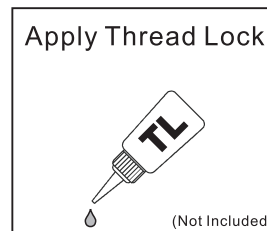
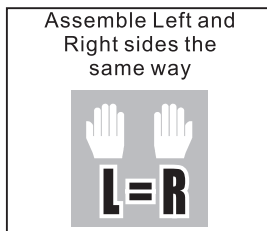
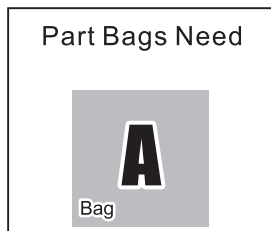
**SPEC R**

<http://www.spec-r.com>

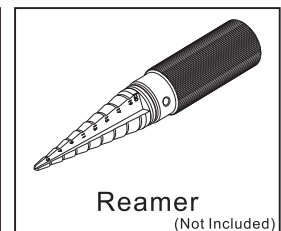
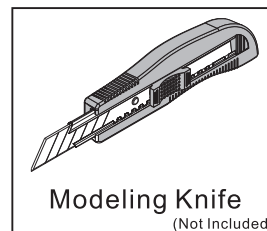
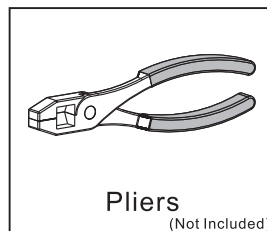
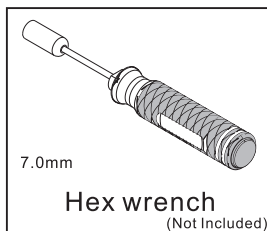
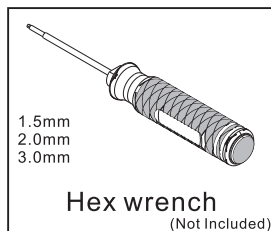
# Contents

| Content                           | Page | Content                                | Page | Content                          | Page |
|-----------------------------------|------|--|------|----------------------------------|------|
| 0.Tool and Accessories            | 1    | 15.Drive Shaft Assembly (50 ,52mm)     | 9    | 29.Rear Shock Installation       | 15   |
| 1.Gluing the Edges of the Chassis | 2    | 16.Front Hub Carrier Assembly          | 10   | 30.Front Body Mount Installation | 16   |
| 2.Bulkhead Installation           | 2    | 17.Front Suspension Installation       | 10   | 31.Bumper Installation           | 16   |
| 3.Spur Gear Assembly              | 3    | 18.Rear Carrier Assembly               | 11   | 32.Rear Body Mount Installation  | 17   |
| 4.Front Spool Assembly            | 3    | 19.Rear Suspension Installation        | 11   | 33.Radio Connections             | 17   |
| 5.Gear Differential Assembly      | 4    | 20.Upper Arm and Steering Rod Assembly | 12   | 34.Steering Servo Assembly       | 18   |
| 6.Drive Train Installation        | 5    | 21.Upper Arm Installation              | 12   | 35.Steering Servo Installation   | 18   |
| 7.Front Shock Mount               | 5    | 22.Steering Rod Installation           | 13   | 36.R/C Unit Installation         | 19   |
| 8.Rear Shock Mount                | 6    | 23.Sway Bar Linkage Assembly           | 13   | 37.Motor Installation            | 19   |
| 9.Steering Crank Assembly         | 6    | 24.Front Sway Bar Installation         | 13   | 38.Battery Holder Installation   | 20   |
| 10.Upper Deck Installation        | 7    | 25.Rear Sway Bar Installation          | 14   | 39.Battery Installation          | 20   |
| 11.Front Suspension Arm Assembly  | 7    | 26.Shock Parts Assembly                | 14   | 40.Body Installation             | 21   |
| 12.Front Suspension Installation  | 8    | 27.Shock Assembly                      | 15   | Gear Ratio                       | 21   |
| 13.Rear Suspension Arm Assembly   | 8    | 28.Front Shock Installation            | 15   | Setting Sheet                    | 22   |
| 14.Rear Suspension Installation   | 9    |  |      |                                  |      |

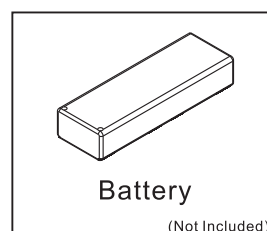
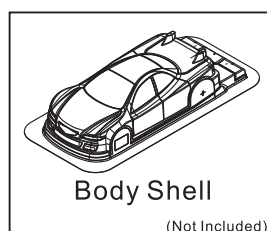
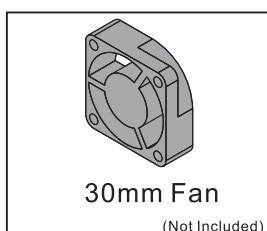
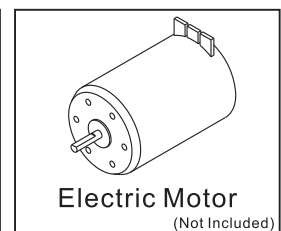
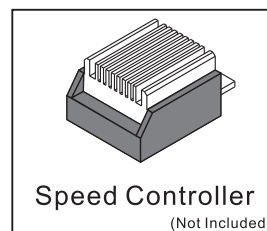
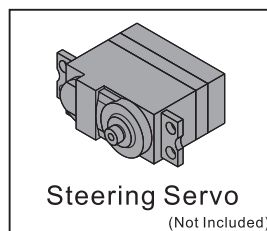
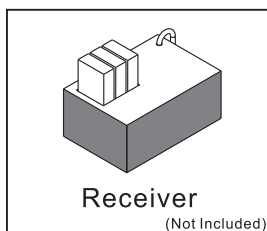
## Symbols Used



## Tools Required

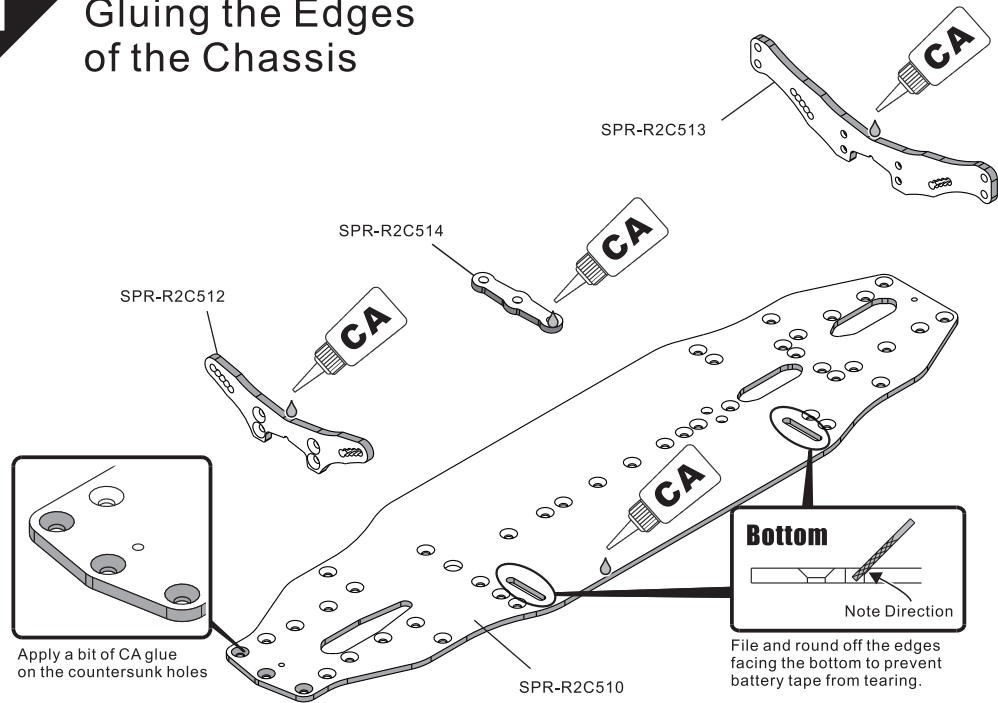


## Equipment Required



**A**  
Bag

## 1 Gluing the Edges of the Chassis



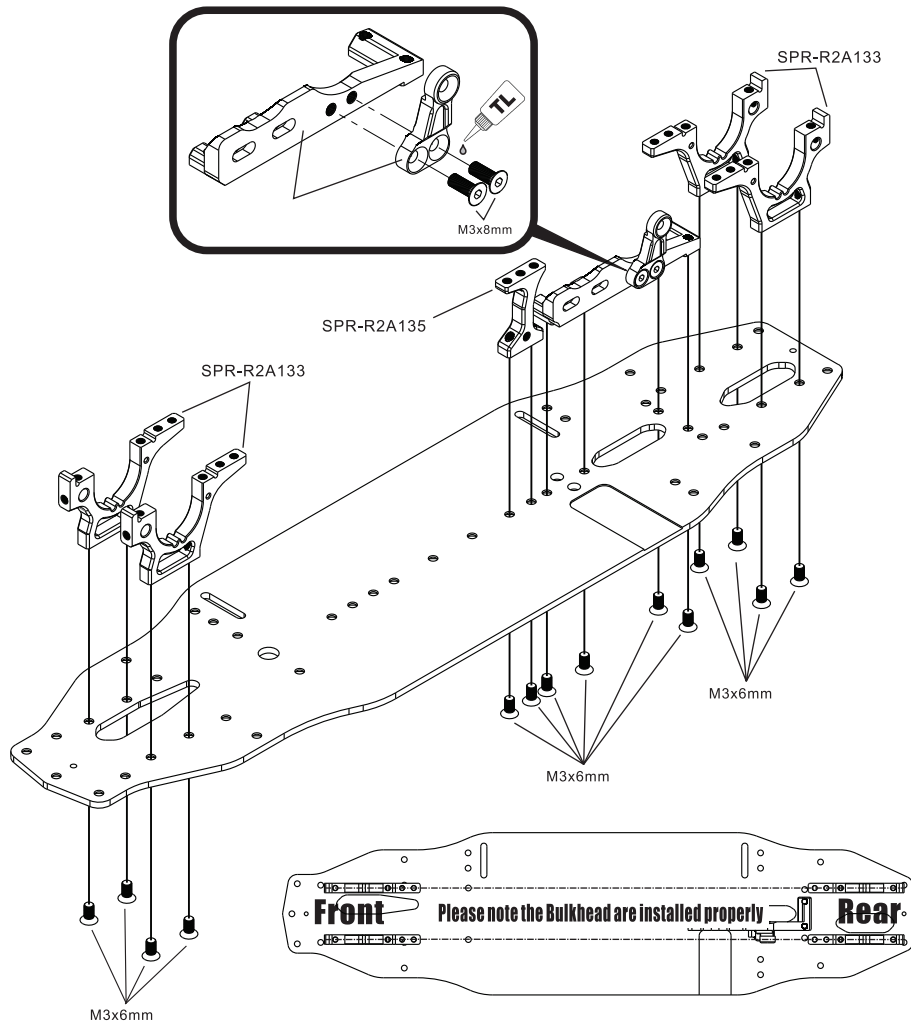
**A + C**  
Bag

**L**  
Bag

**x2**  
Flat Head Screw **M3x8mm**

**x14**  
Flat Head Screw **M3x6mm**

## 2 Bulkhead Installation



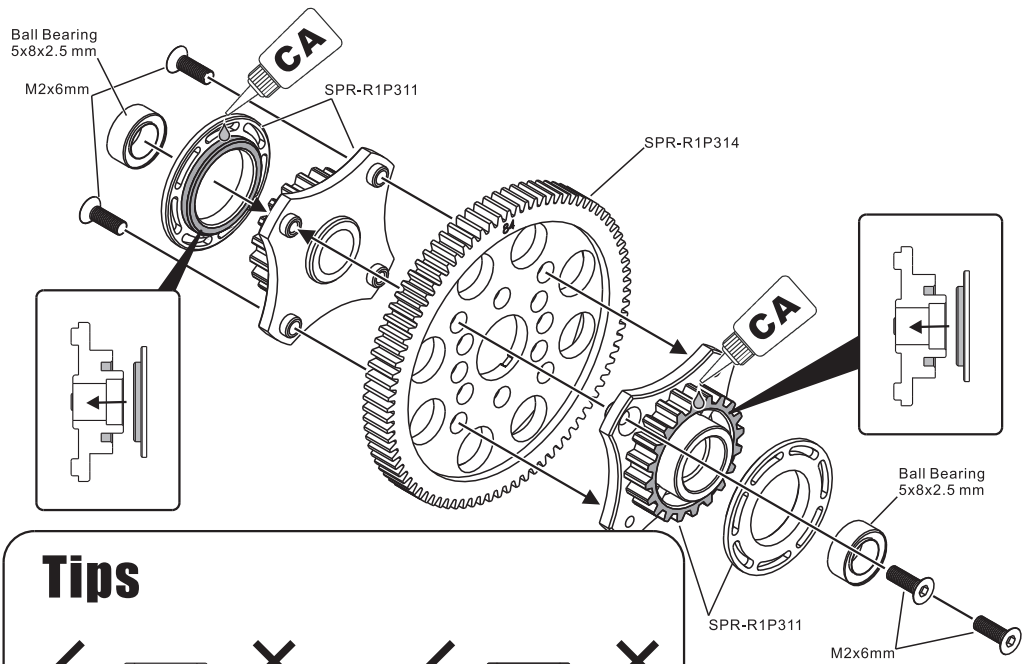
**E** + **L**  
Bag Bag

**M**  
Bag

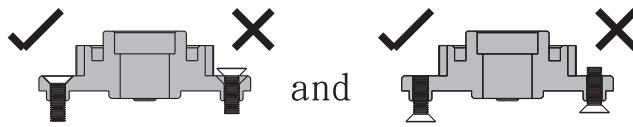
  x4  
Flat Head Screw **M2x6mm**

  x2  
Ball Bearing **5x8x2.5mm**

### 3 Spur Gear Assembly



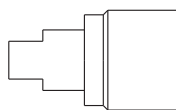
#### Tips



Screws should be tightened properly as shown.

**D** + **E**  
Bag Bag

**L** + **M**  
Bag Bag

 x2

Front Spool Outdrive Adapters

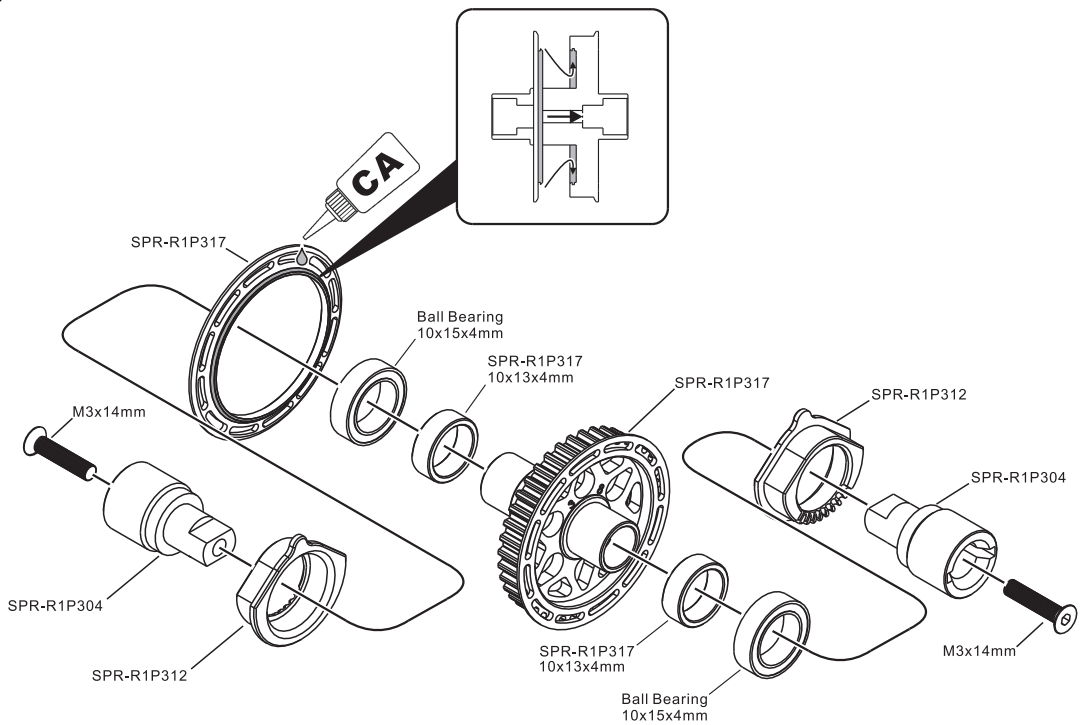
  x2  
Flat Head Screw **M3x14mm**

 x2  
Ball Bearing **10x15x4mm**

Ball Bearing **10x15x4mm**

 x2  
Plastic Collar **10x13x4mm**

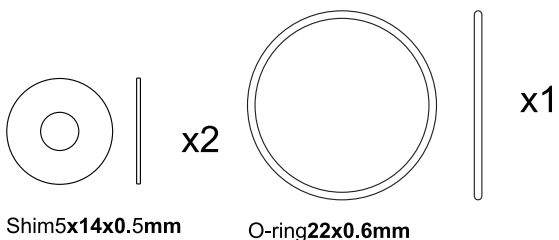
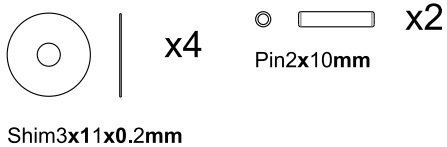
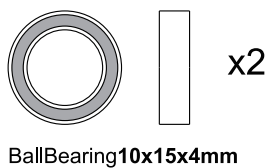
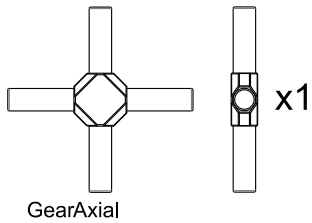
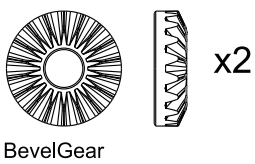
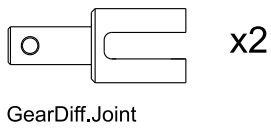
### 4 Front Spool Assembly





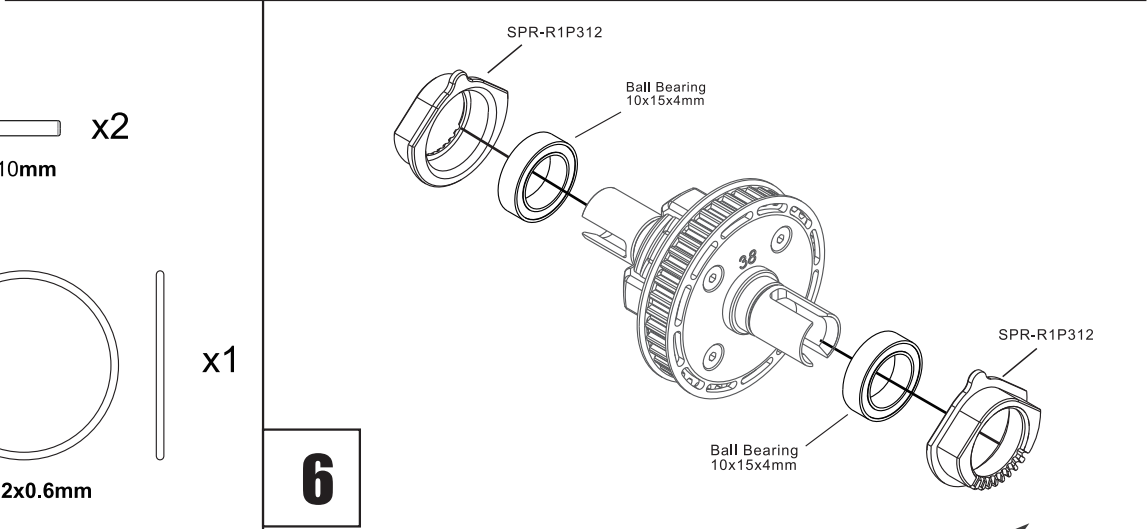
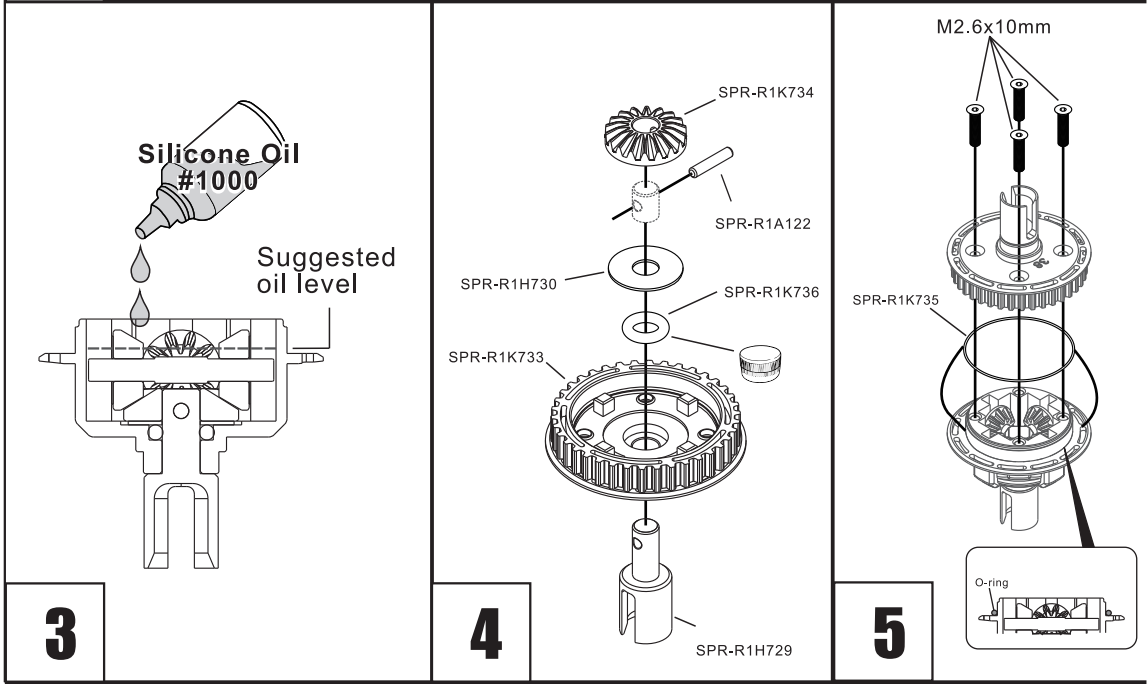
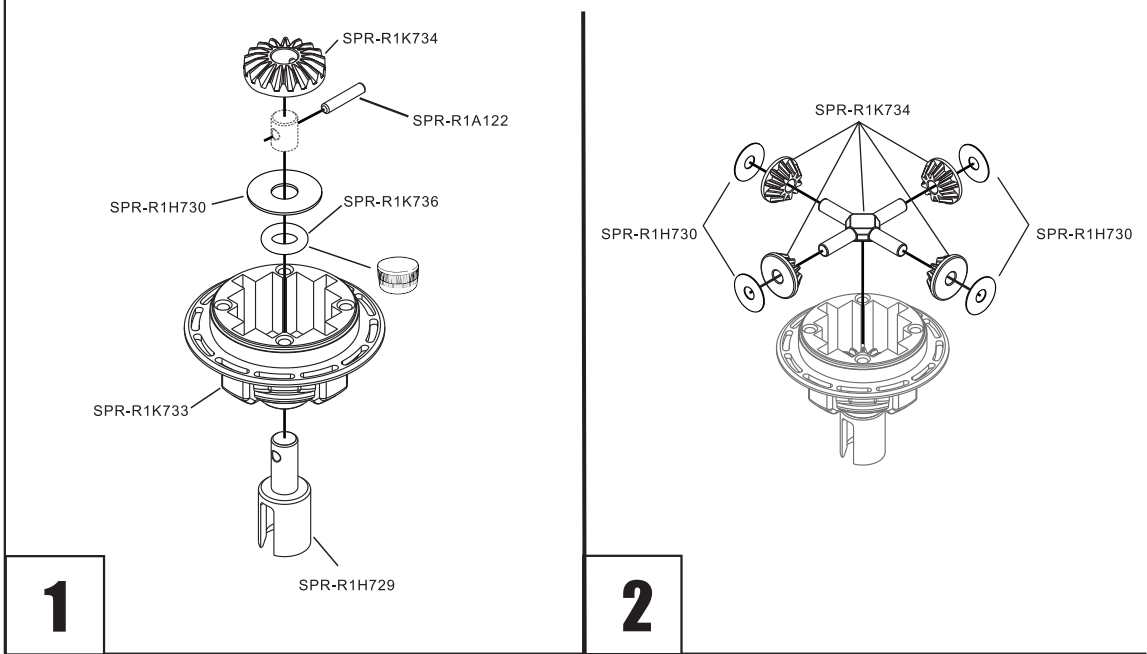
**D** + **E**  
Bag Bag

**M**  
Bag



**5**

## Gear Differential Assembly (Full Set HD Gear Differential . SPR-R1K732)



**F** + **G**  
Bag Bag

**H** + **L**  
Bag Bag

 x 2  
Flat Head Screw **M3x8mm**

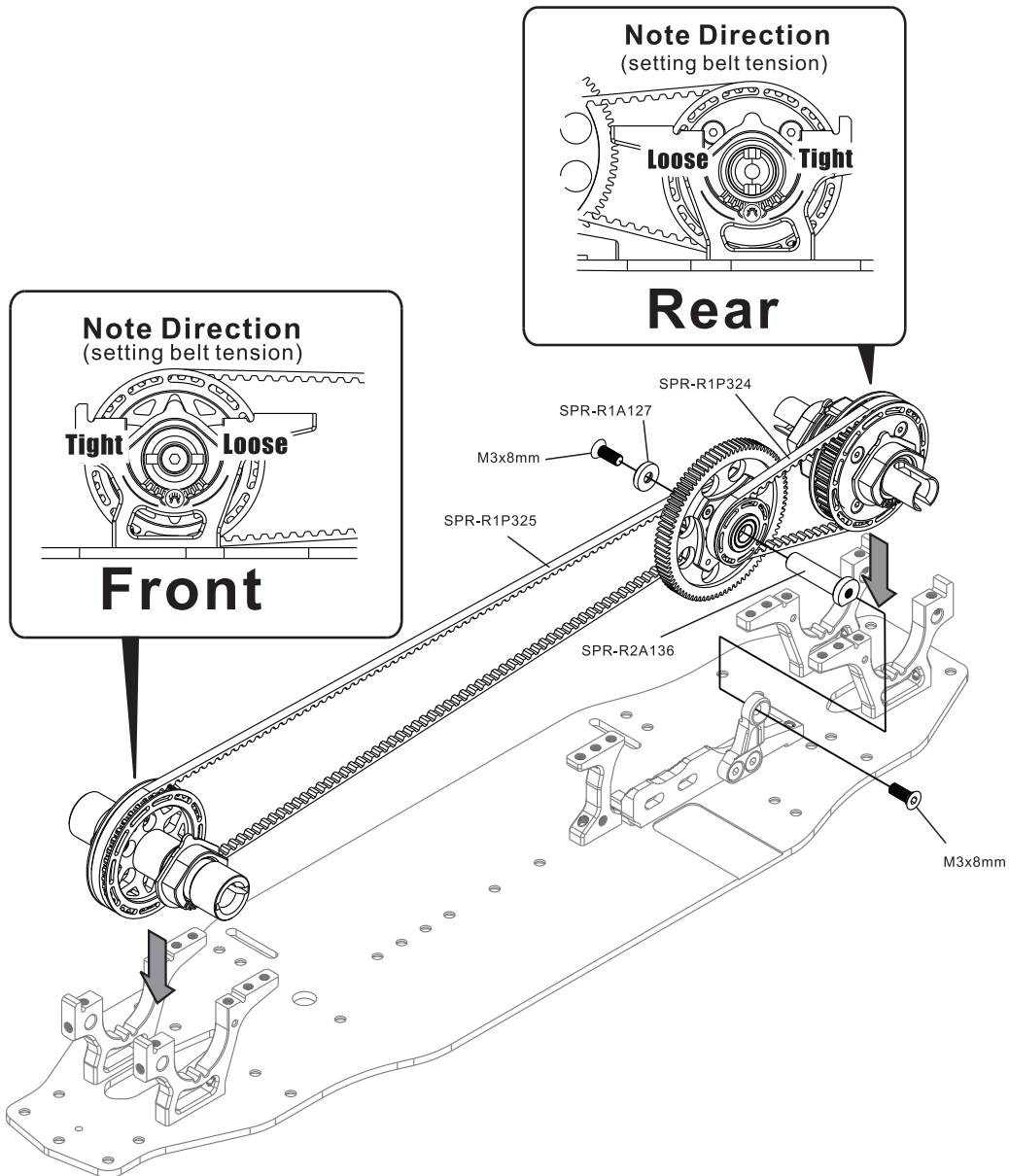
 x 1  
Alu. Flat Head Washer **M3**



x 1  
Spur Gear Shaft


**6**

## Drive Train Installation




**A** + **C**  
Bag Bag

**G** + **L**  
Bag Bag

 x 4  
Button Head Screw **M3x6mm**

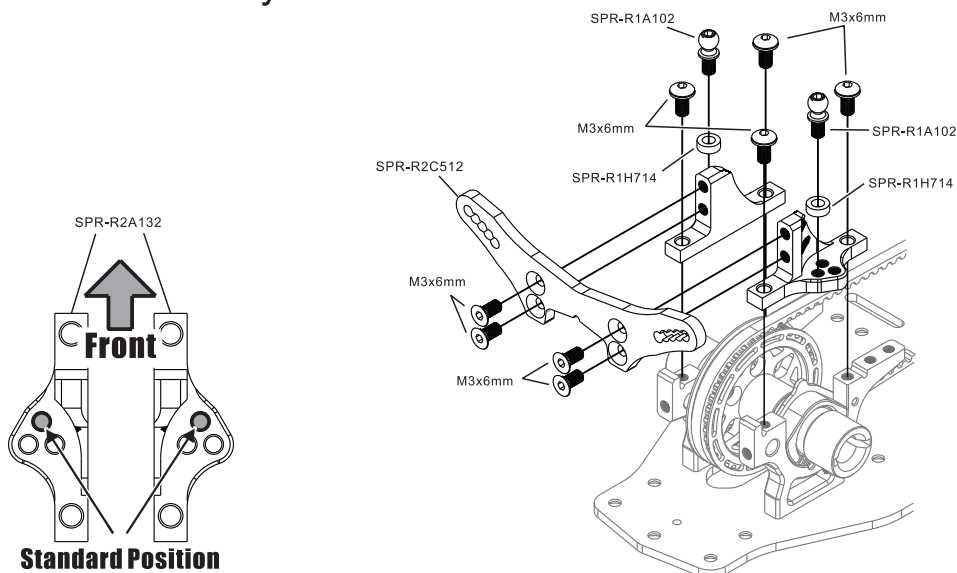
 x 4  
Flat Head Screw **M3x6mm**

 x 2  
Alu. Ball Stud **4.7x5mm (2mm Socket)**

 x 2  
Alu. Spacer **3x5.5x2mm**

**7**

## Front Shock Mount Assembly and Installation





Button Head Screw **M3x6mm**



Flat Head Screw **M3x6mm**



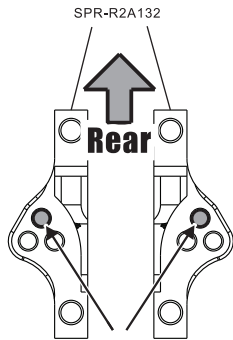
Alu. Ball Stud **4.7x5mm** (2mm Socket)



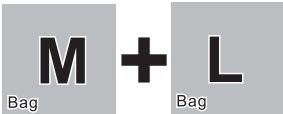
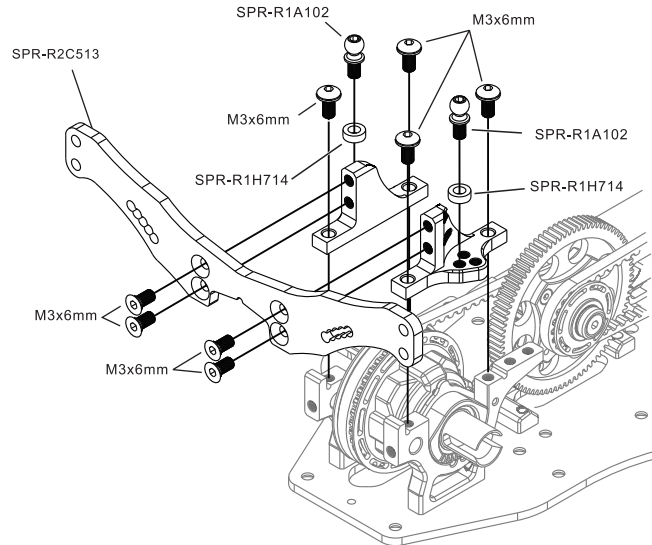
Alu. Spacer **3x5.5x2mm**

**8**

## Rear Shock Mount Assembly and Installation



**Standard Position**



Button Head Screw **M3x6mm**



Flat Head Screw **M3x6mm**



Ball Bearing **3x6x2.5mm**



Ball Bearing **5x8x2.5mm** (Flanged)



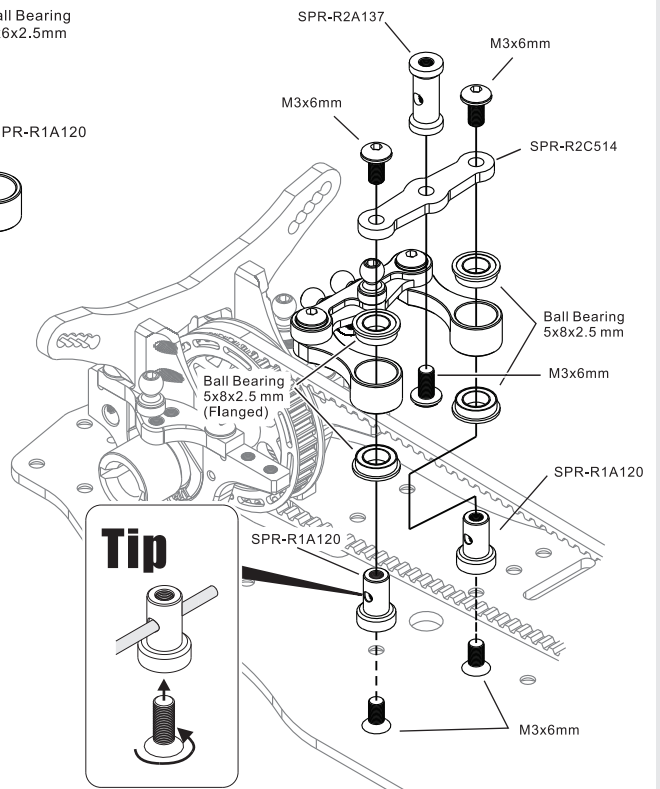
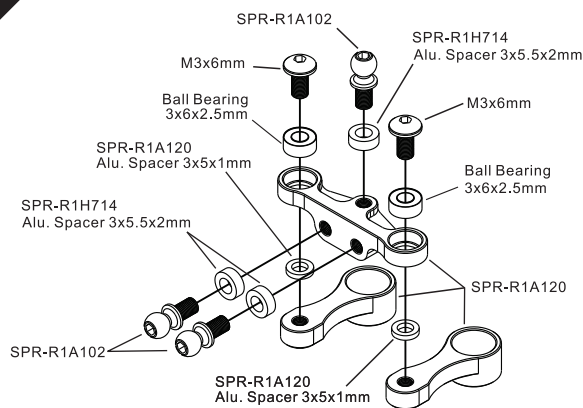
Steering Post



Alu. Stand

**9**

## Steering Crank Assembly



**A + E**  
Bag Bag

**G + L**  
Bag Bag

**M**  
Bag



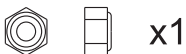
Button Head Screw **M3x6mm**



Button Head Screw **M3x12mm**



Ball Bearing **3x6x2.5mm**



Lock Nut **M3**



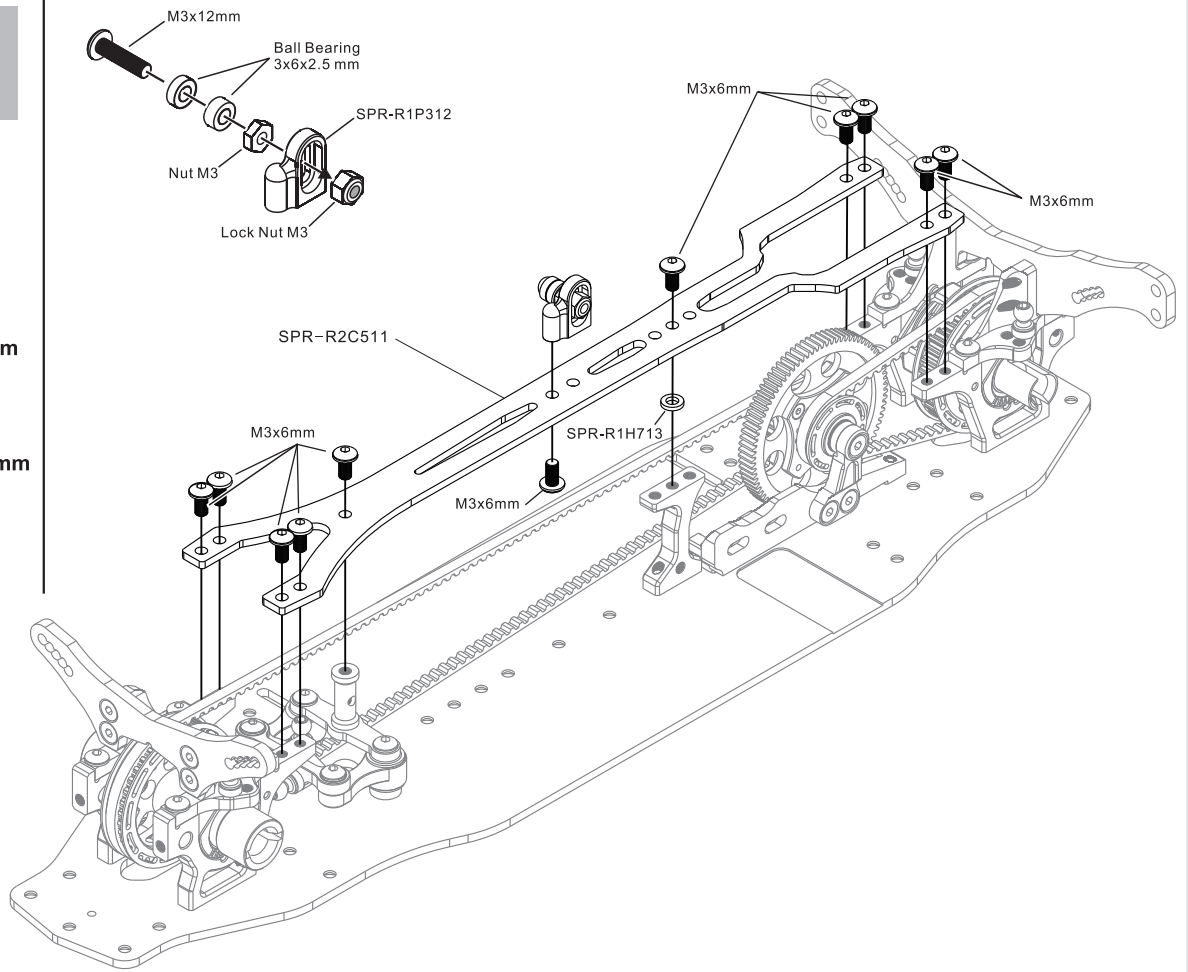
Nut **M3**



Alu. Spacer **3x5.5x1mm**

**10**

## Upper Deck Installation



**B + H**  
Bag Bag

**L**  
Bag



Set Screw **M4x8mm**



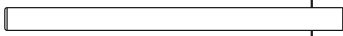
Pivot Ball **3x5mm**



Plastic Spacer **3x5x2mm**



Plastic Spacer **3x5x1mm**

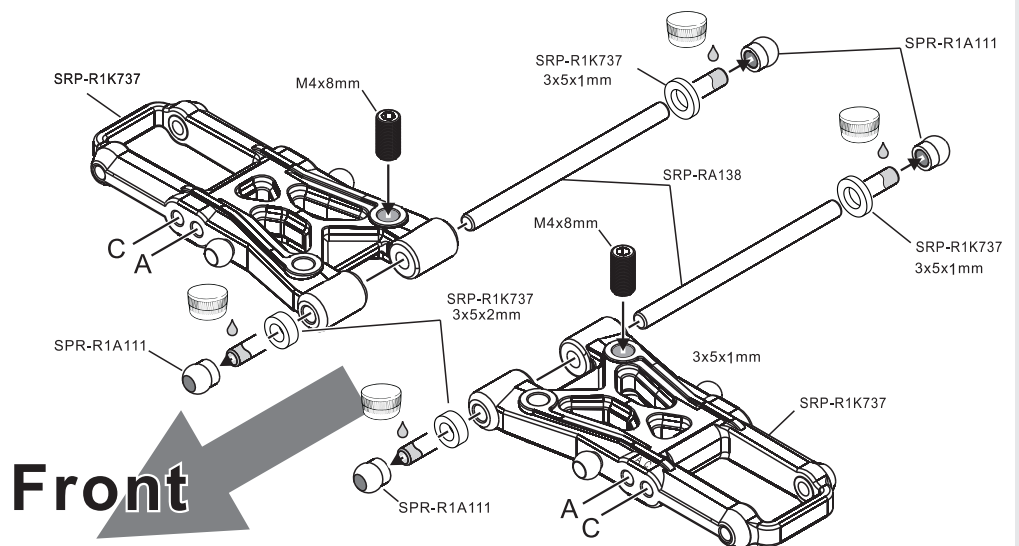


x2

Pivot Pin **3x45mm**

**11**

## Front Suspension Arm Assembly



Suspension Arm (Soft) **SRP-R1P302**  
Carbon Suspension Arm (Hard) **SRP-R1K737**

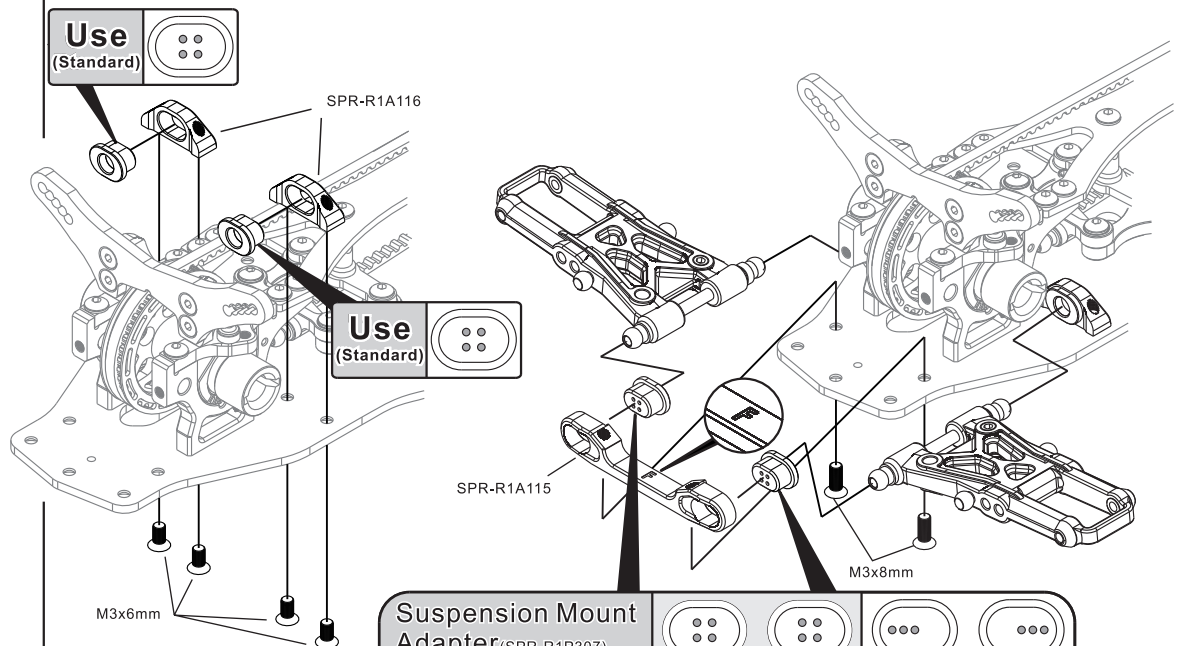
**C** + **E**  
Bag Bag









**L**  
Bag

  x4  
Flat Head Screw **M3x6mm**

  x2  
Flat Head Screw **M3x8mm**

## 12 Front Suspension Installation



|                                       |   |   |   |   |
|---------------------------------------|---|---|---|---|
| Suspension Mount Adapter (SPR-R1P307) |   |   |   |   |
| Toe Angle                             | <b>0°</b><br>(Standard)   | <b>Out 0.5°</b>   |   |   |
| Suspension Mount Adapter (SPR-R1P307) |  |  |  |  |
| Toe Angle                             | <b>Out 1.0°</b>   | <b>Out 1.5°</b>   |   |   |

**B** + **H**  
Bag Bag

**L**  
Bag

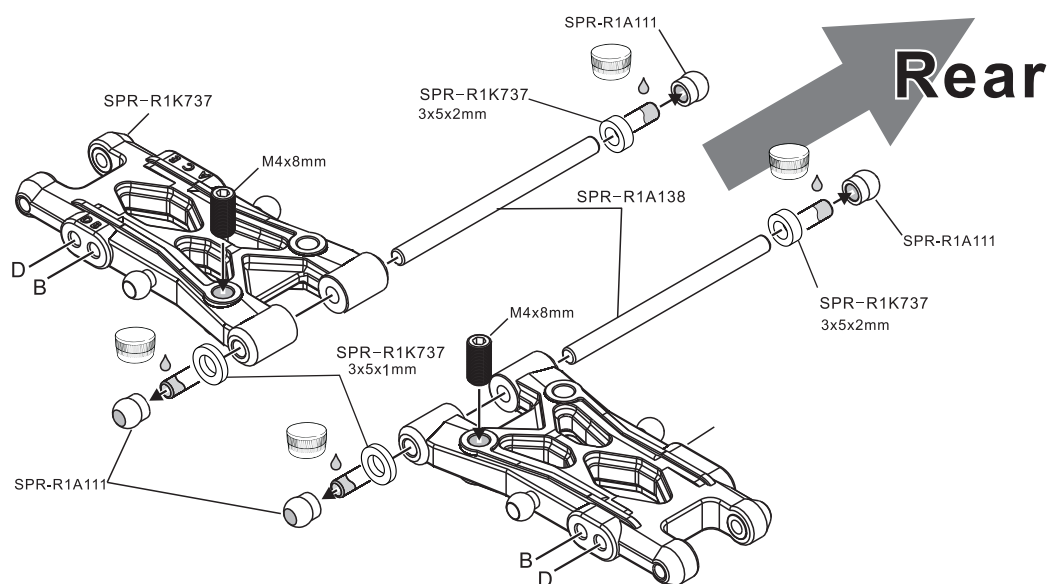
  x2  
Set Screw **M4x8mm**

 x4  
Pivot Ball **3x5mm**

  x2  
Plastic Spacer **3x5x3mm**

x2  
Pivot Pin **3x45mm**

## 13 Rear Suspension Arm Assembly



Suspension Arm (Soft) SPR-R1P302  
Carbon Suspension Arm (Hard) SPR-R1K737



**C** + **E**  
Bag Bag

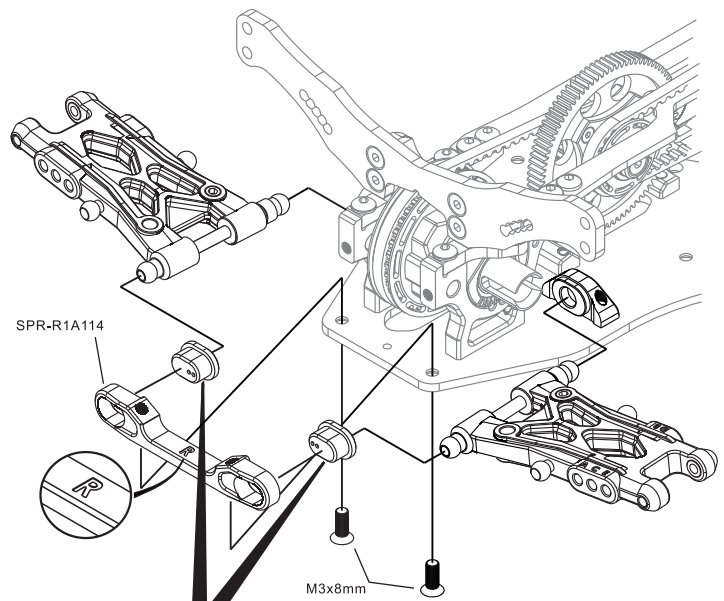
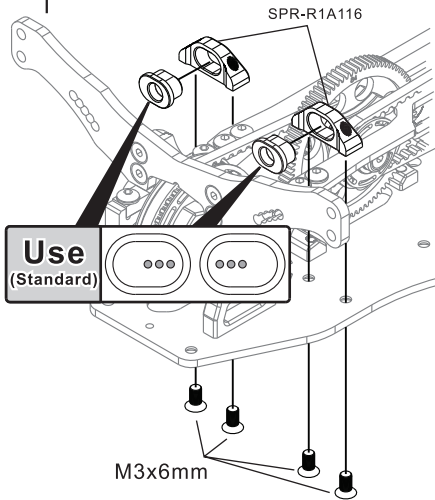
**14**

## Rear Suspension Installation

**L**  
Bag

  x4  
Flat Head Screw **M3x6mm**

  x2  
Flat Head Screw **M3x8mm**



|                                       |                              |                |  |  |
|---------------------------------------|------------------------------|----------------|--|--|
| Suspension Mount Adapter (SPR-R1P307) |                              |                |  |  |
| Toe Angle                             | <b>In 3.5°</b>               | <b>In 3.0°</b> |  |  |
| Suspension Mount Adapter (SPR-R1P307) |                              |                |  |  |
| Toe Angle                             | <b>In 2.5°</b><br>(Standard) | <b>In 2.0°</b> |  |  |

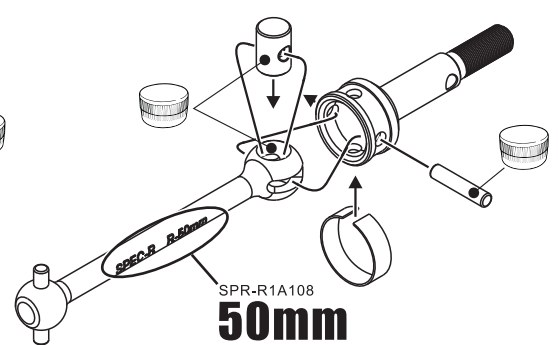
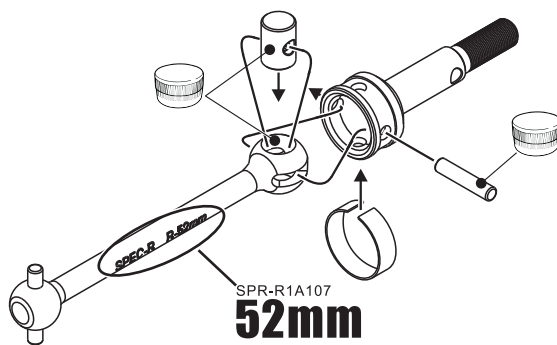
**I**  
Bag

**15**

## Drive Shaft Assembly (50 ,52mm)

**2x** Make 2

**2x** Make 2





**B** + **G**  
Bag Bag

**H** + **L**  
Bag Bag

**M**  
Bag



Button Head Screw **M3x8mm**



Cap Head Screw **M2x5mm**



Ball Bearing **5x10x4mm**



Ball Stud **4.7x8mm** (2mm Socket)



Alu. Ball Stud **4.7x5mm** (2mm Socket)



Steering Block Bushing



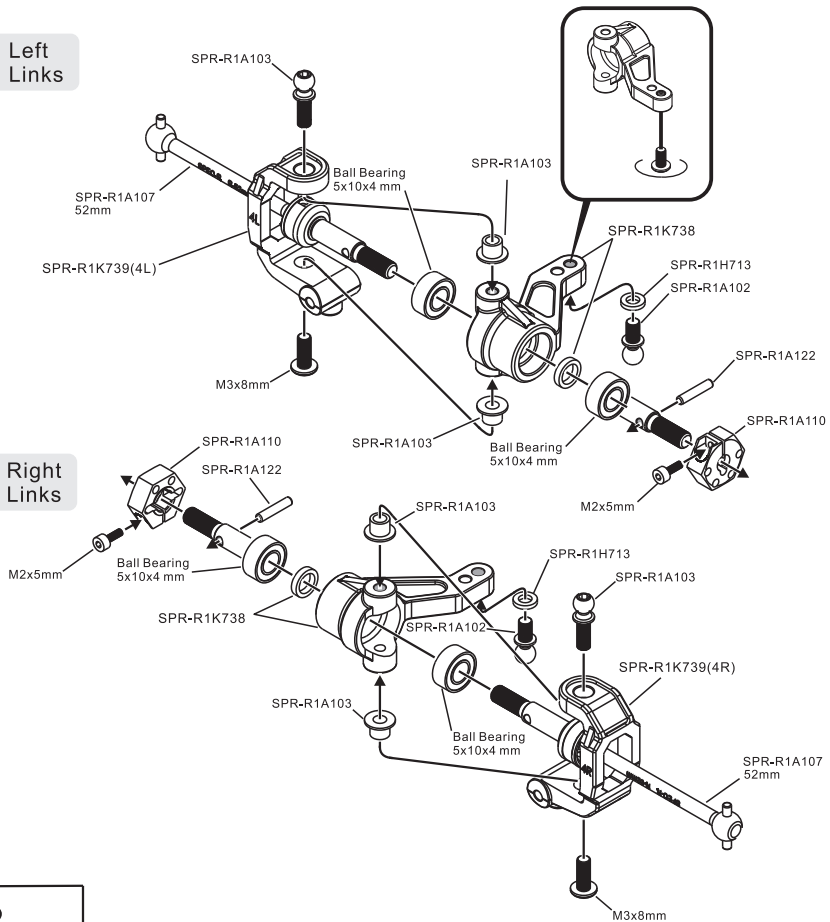
Plastic Spacer **5x7x1.5mm**

**16**

## Front Hub Carrier Assembly

**L** Left Links

**R** Right Links



C-Hub (Soft) **SPR-R1P301**  
Carbon C-Hub (Hard) **SPR-R1K739**  
Steering Block (Soft) **SPR-R1P303**  
Carbon Steering Block (Hard) **SPR-R1K738**

**H** + **L**  
Bag Bag



Set Screw **M3x4mm**



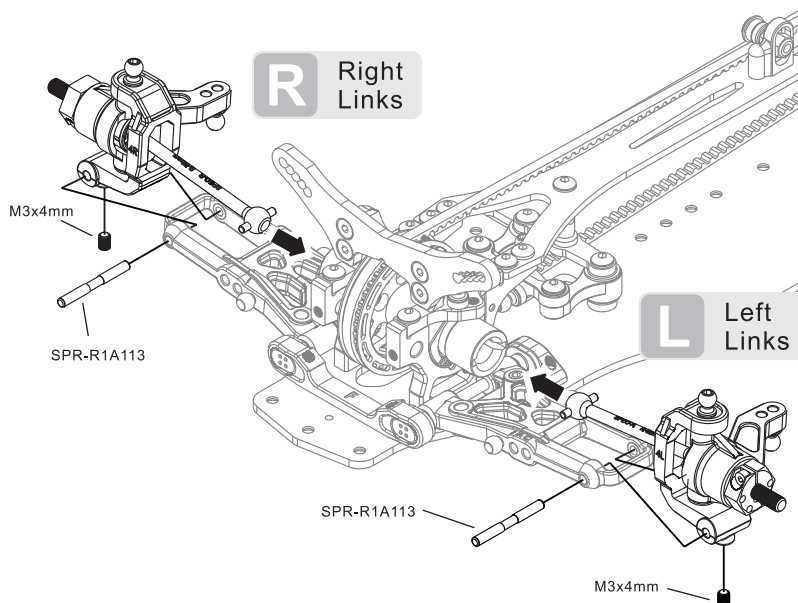
Outer Pivot Pin **2.5x24mm**

**17**

## Front Suspension Installation

**R** Right Links

**L** Left Links







**B** + **D**  
Bag Bag

**G** + **H**  
Bag Bag



**L** + **M**  
Bag Bag



  x2  
Cap Head Screw M2x5mm

  x4  
Ball Bearing 5x10x4mm

  x2  
Alu. Ball Stud 4.7x8mm (2mm Socket)

  x2  
Plastic Spacer 5x7x1.5mm

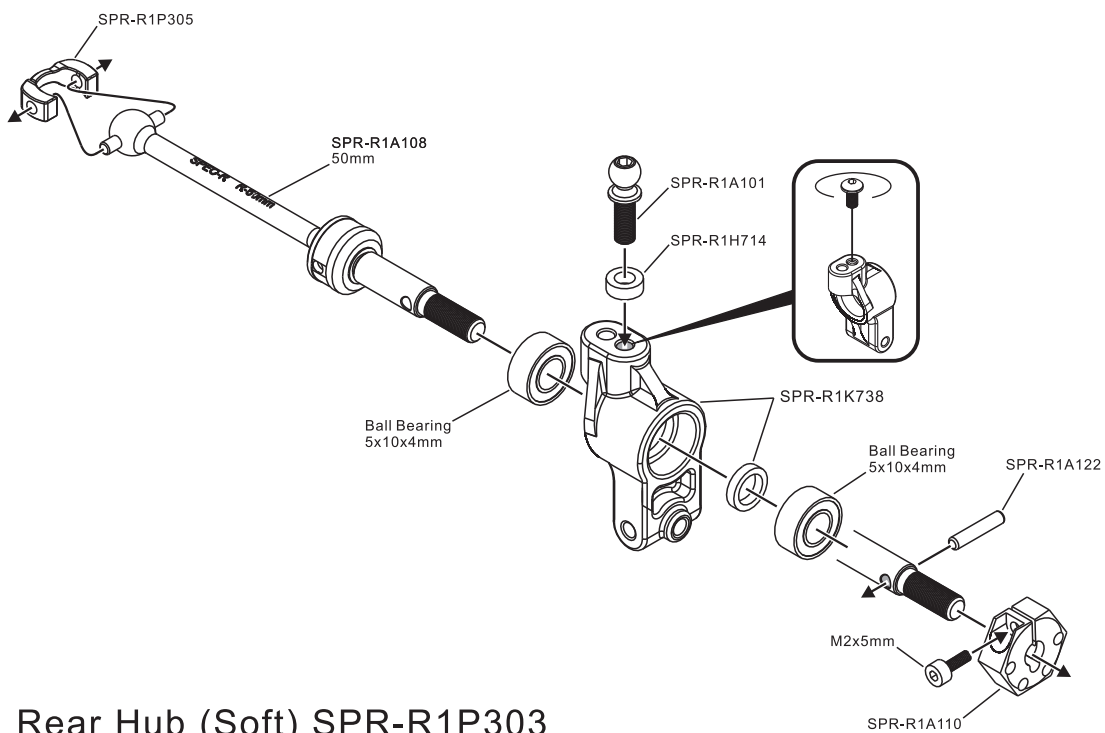
  x2  
Alu. Spacer 3x5.5x2mm

  x2  
Pin 2x10mm

**18**

## Rear Carrier Assembly

**2x** Make 2




Rear Hub (Soft) SPR-R1P303

Carbon Rear Hub (Hard) SPR-R1K738

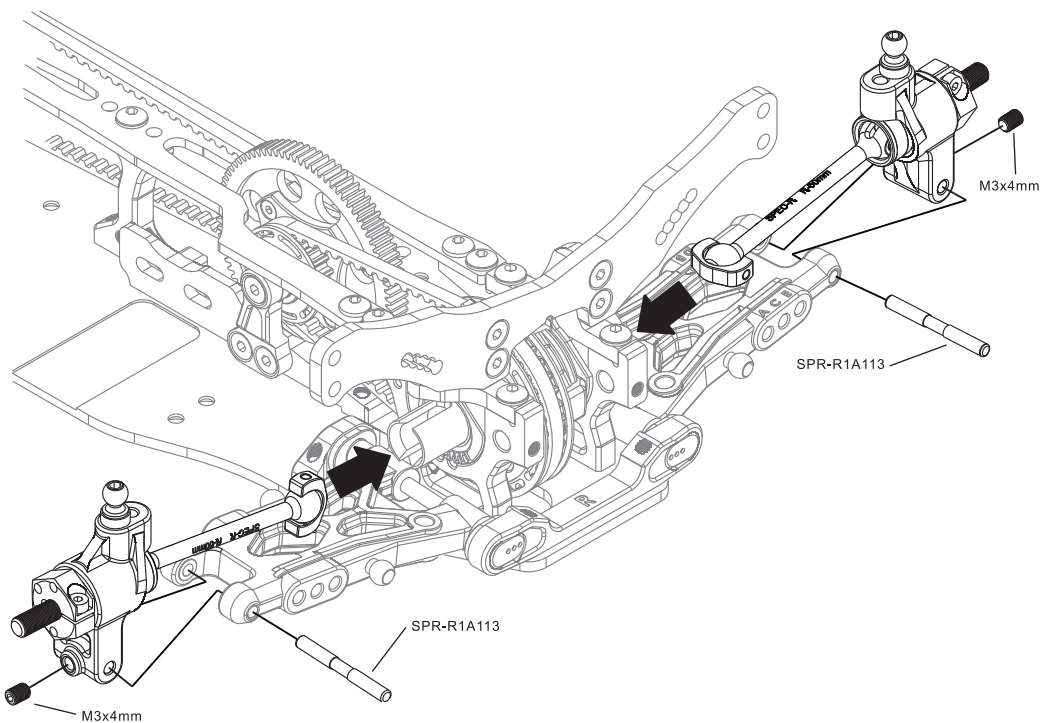
**H** + **L**  
Bag Bag

  x2  
Set Screw M3x4mm

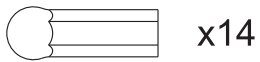
 x2  
Outer Pivot Pin 2.5x24mm

**19**

## Rear Suspension Installation



**E** + **G**  
 Bag Bag



End Cap 4.7x20mm



x2

Alu. Tumbuckle M3x36mm



x4

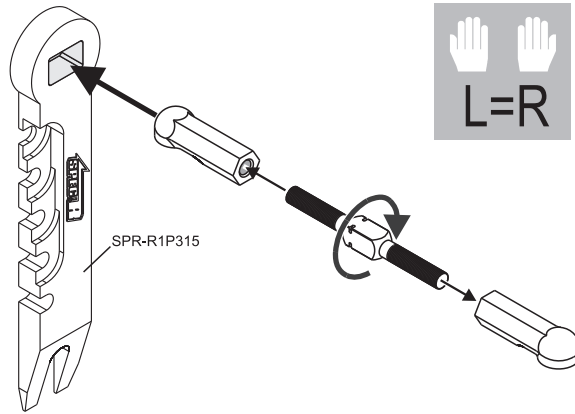
Alu. Tumbuckle M3x28mm



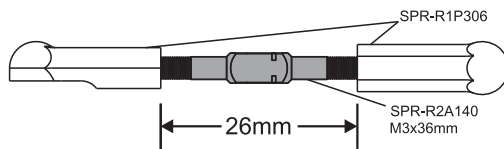
x1

Alu. Tumbuckle M3x20mm

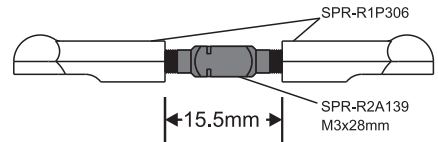
## 20 Upper Arm and Steering Rod Assembly



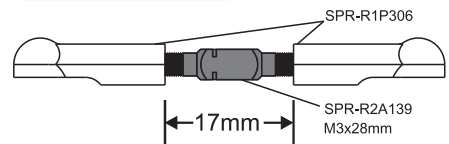
### E Steering Rod-L x1



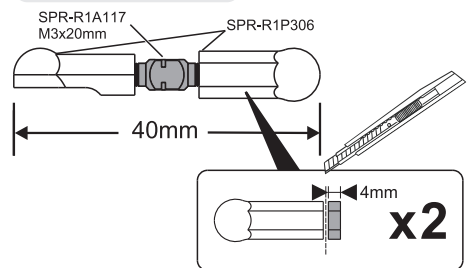
### A Front Rod x2



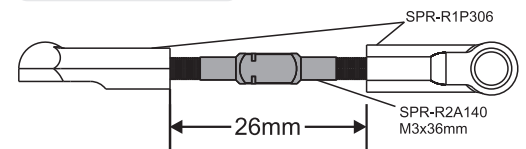
### B Rear Rod x2



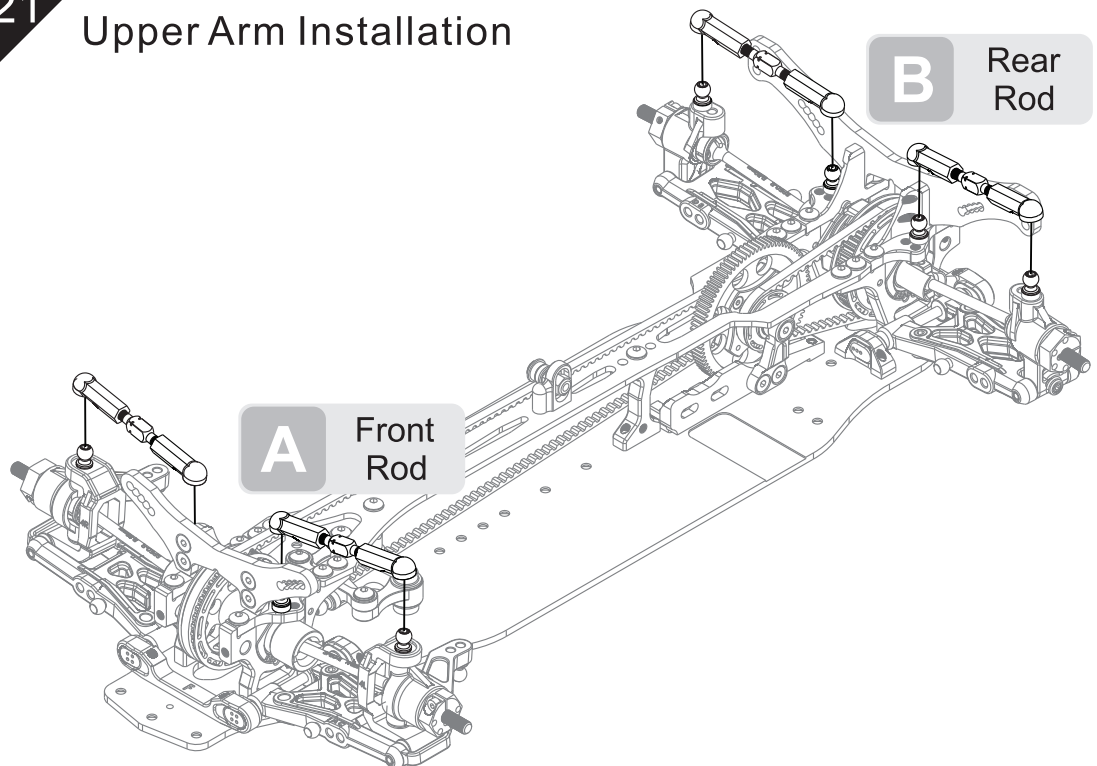
### C Steering Rod-1 x1



### D Steering Rod-R x1

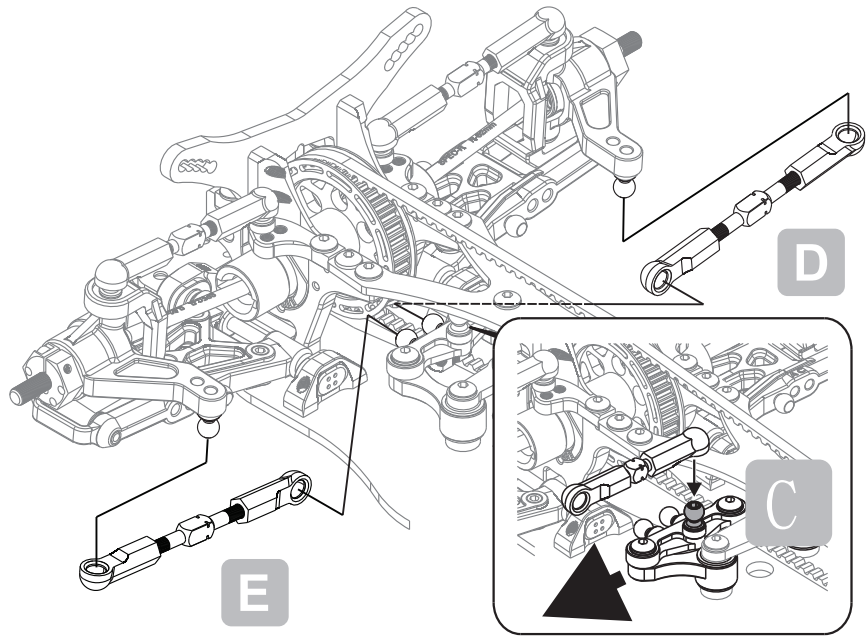


## 21 Upper Arm Installation



# 22

## Steering Rod Installation



**E** + **G**  
Bag Bag

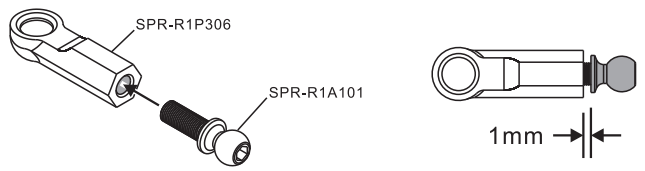
x4  
EndCap 4.7x20mm

x4  
Alu. Ball Stud 4.7x8mm (2mm Socket)

# 23

## Sway Bar Linkage Assembly

**4x** Make 4



**E** + **G**  
Bag Bag

**H** + **J**  
Bag Bag

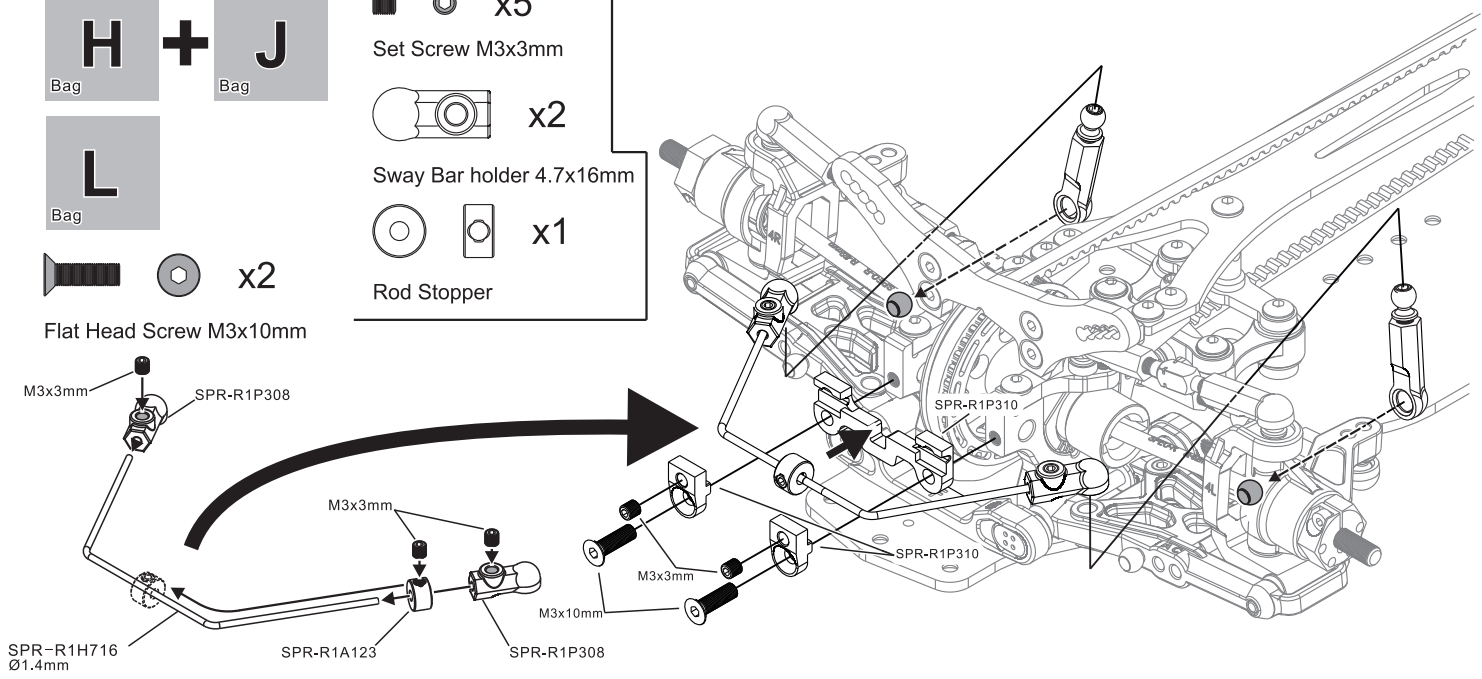
**L**  
Bag

x2  
Flat Head Screw M3x10mm

# 24

## Front Sway Bar Installation

- ● x5  
Set Screw M3x3mm
- x2  
Sway Bar holder 4.7x16mm
- □ x1  
Rod Stopper





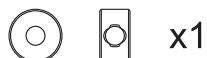
Flat Head Screw M3x10mm



Set Screw M3x3mm



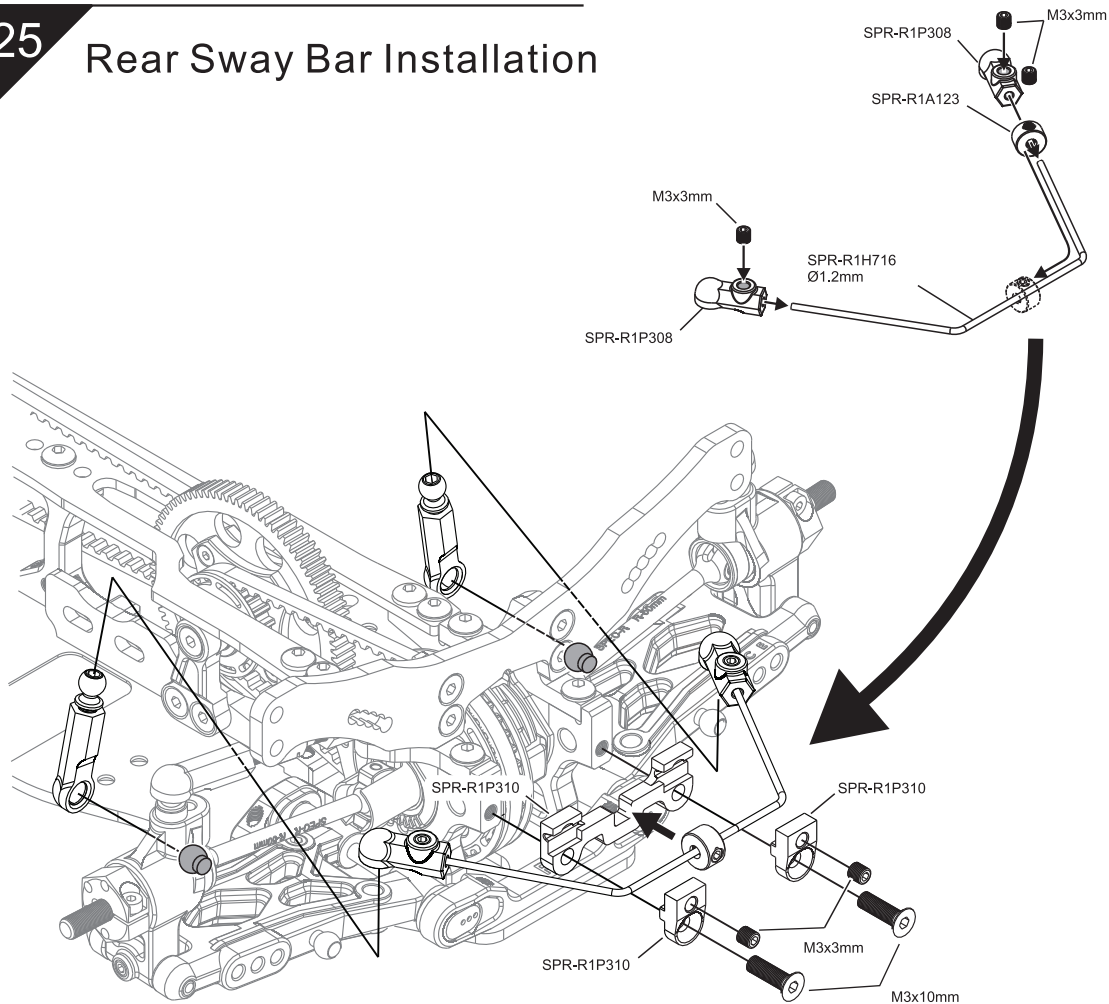
Sway Bar holder 4.7x16mm



Rod Stopper

25

## Rear Sway Bar Installation



Shock Shaft 26mm



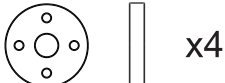
E Clip 2mm



Shaft Guide



O-ring Guide



Shock Piston (Ø1.1)



Bladder

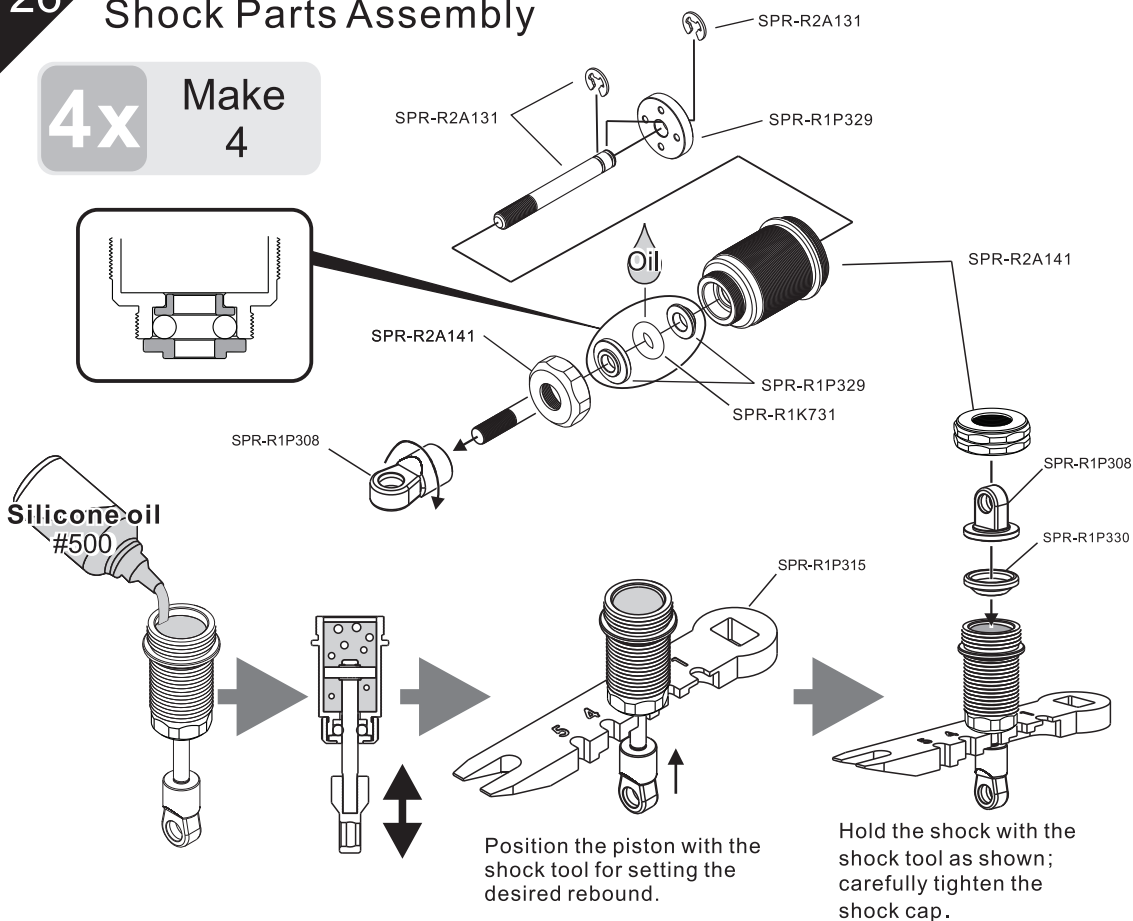


O-ring

26

## Shock Parts Assembly

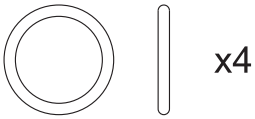
4x Make 4







Bag

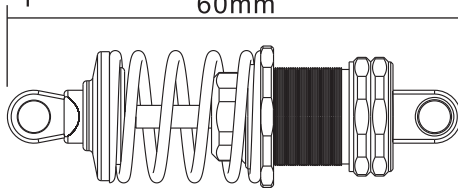


O-ring 15X1mm

27

### Shock Assembly

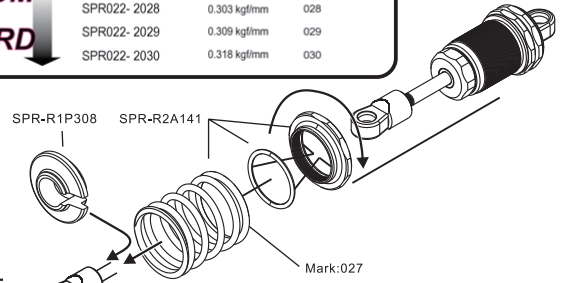
4x Make 4



### Spring Set: SPR022-20KI 20mm Big Bore Shock Spring for 1/10 Touring Car

SOFT  
MEDIUM  
HARD

| Spring Constant:        | Marking: |
|-------------------------|----------|
| SPR022-2025 0.271 kg/mm | 025      |
| SPR022-2026 0.282 kg/mm | 026      |
| SPR022-2027 0.291 kg/mm | 027      |
| SPR022-2028 0.303 kg/mm | 028      |
| SPR022-2029 0.309 kg/mm | 029      |
| SPR022-2030 0.318 kg/mm | 030      |



Bag



Button Head Screw M3x6



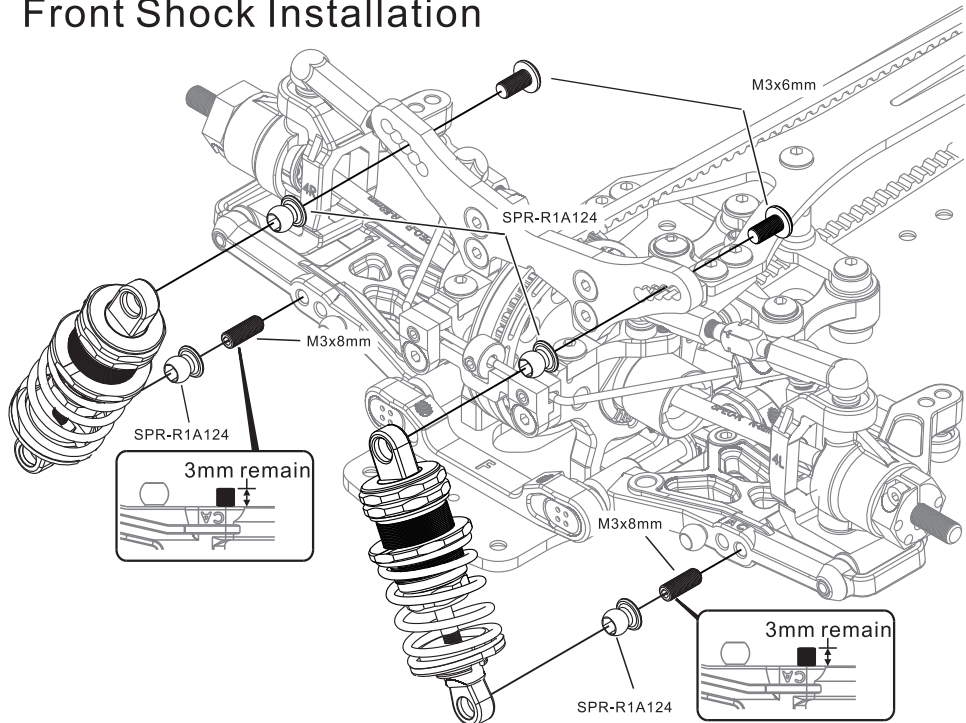
Set Screw M3x8mm



Ball Universal 4.7mm

28

### Front Shock Installation



Bag



Button Head Screw M3x6



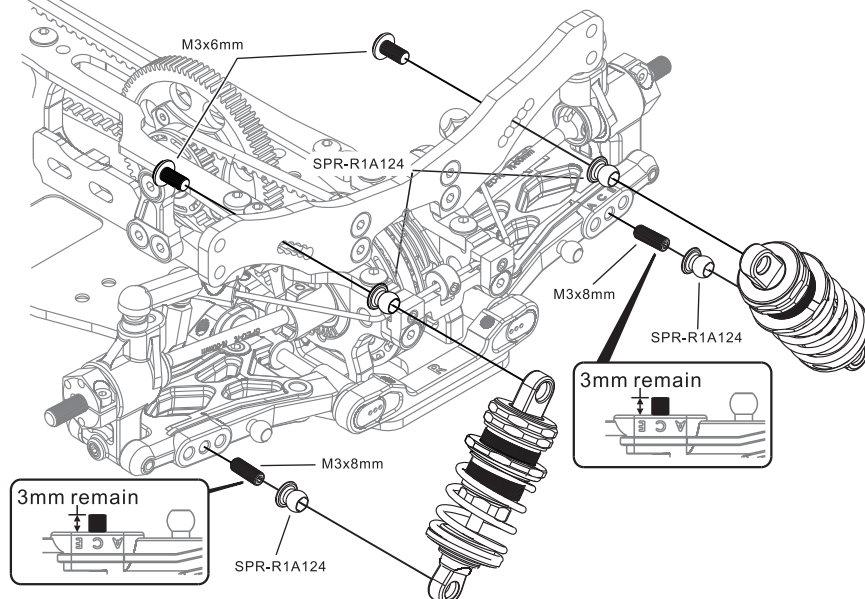
Set Screw M3x8mm



Ball Universal 4.7mm

29

### Rear Shock Installation





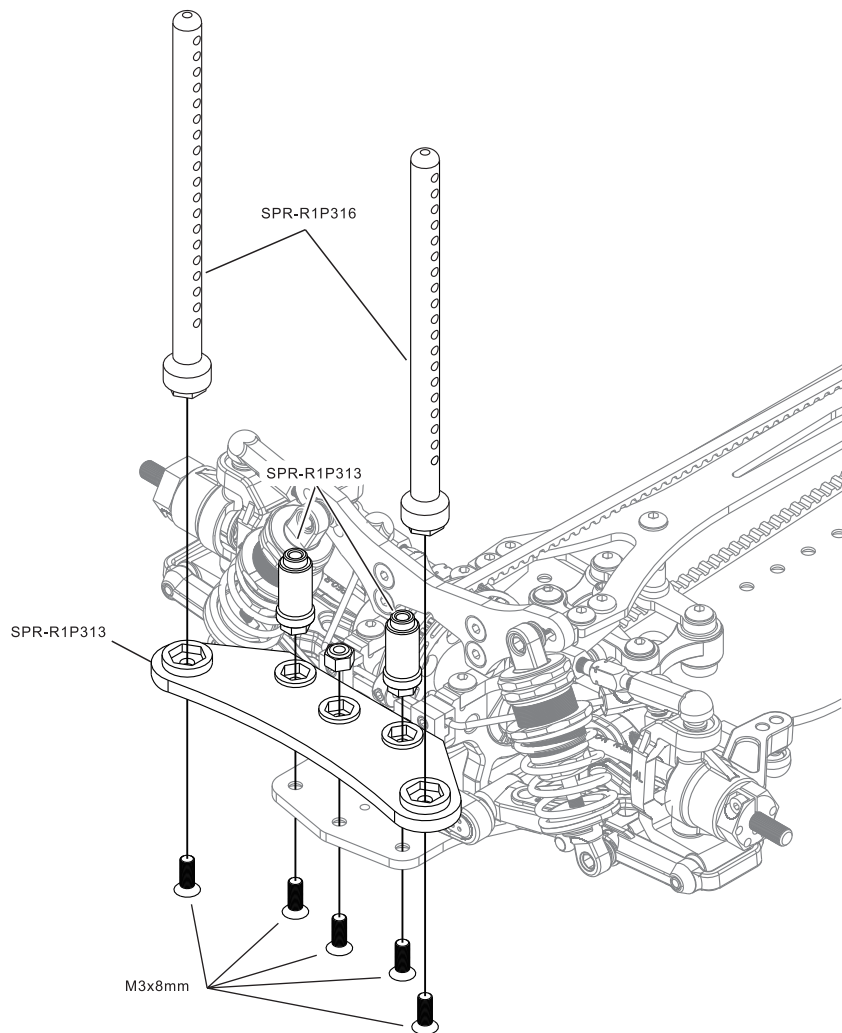


30

## Front Body Mount Installation

  x5  
Flat Head Screw M3x8mm

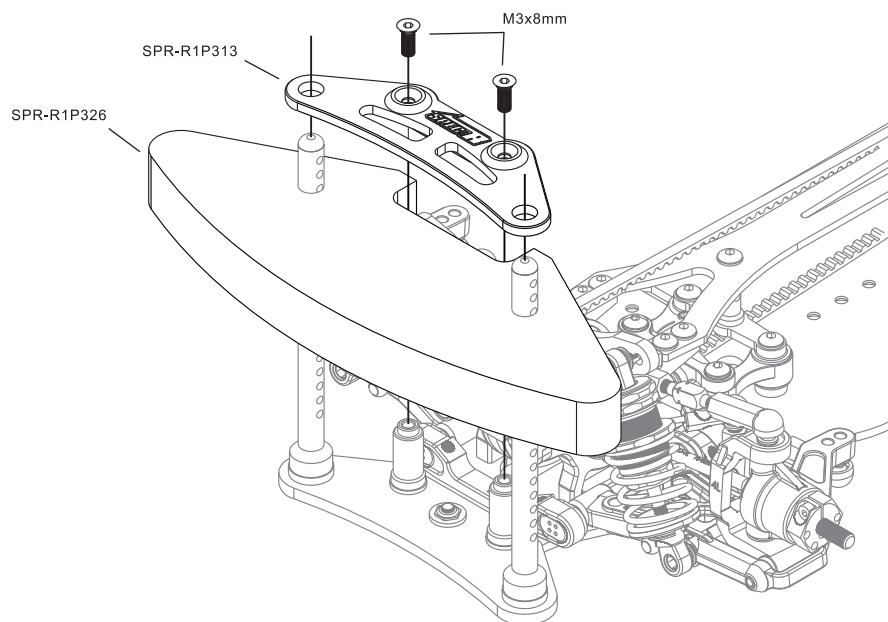
  x1  
Lock Nut M3



31

## Bumper Installation

  x2  
Flat Head Screw M3x8mm





**E** + **H**  
Bag Bag

**L**  
Bag

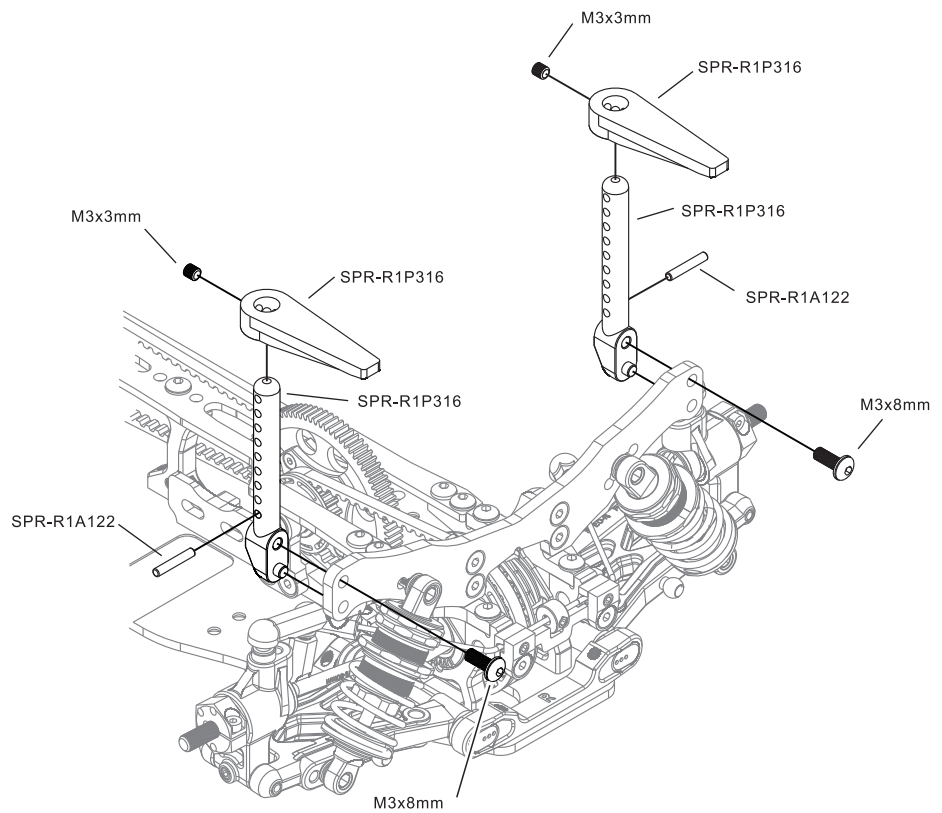
  x2  
Button Head Screw M3x8mm

  x2  
Set Screw M3x3mm

  x2  
Pin 2x10mm

**32**

## Rear Body Mount Installation

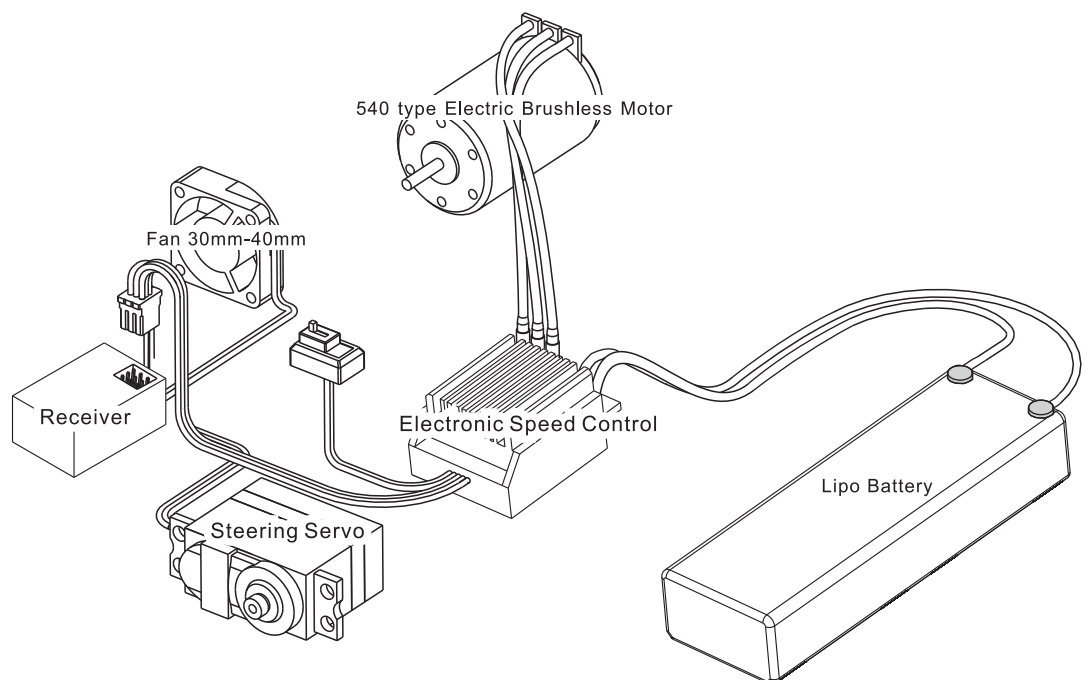


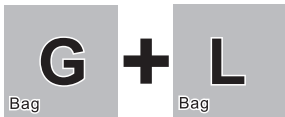
**33**

## Radio Connections



All electronics shown are not included





Button Head Screw M3x12mm



Flat Head Screw M3x8mm



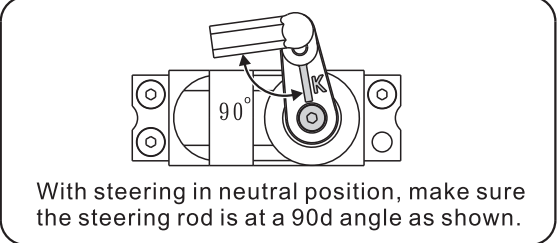
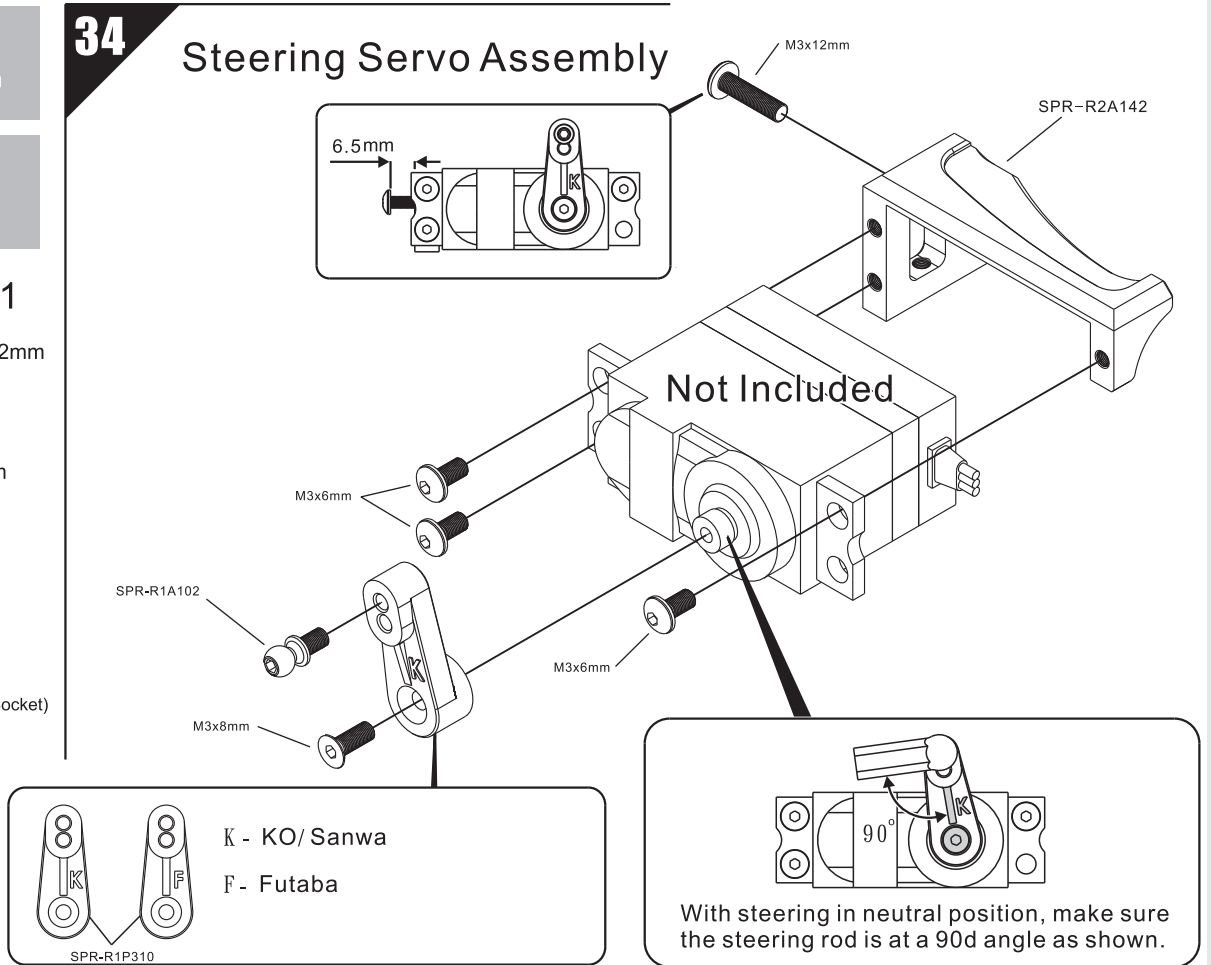
Button Head Screw M3x6



Alu. Ball Stud 4.7x5mm (2mm Socket)

34

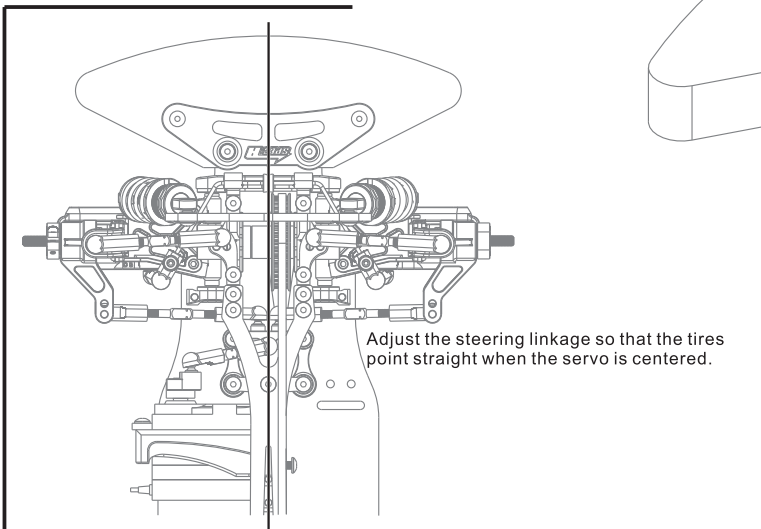
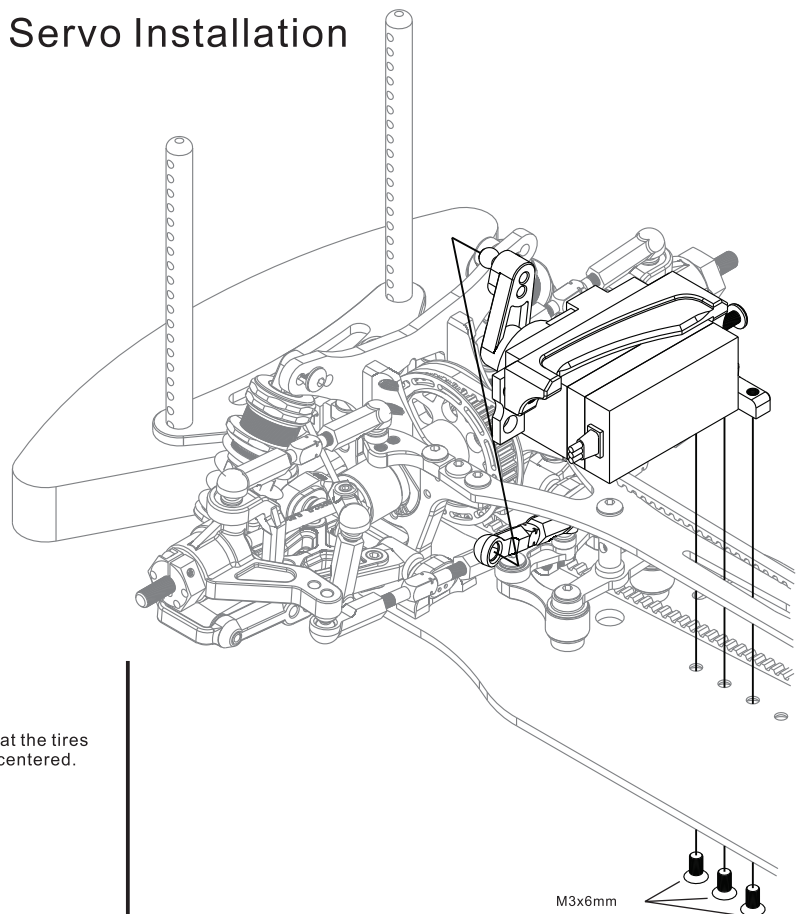
## Steering Servo Assembly



Flat Head Screw M3x6mm


35

## Steering Servo Installation

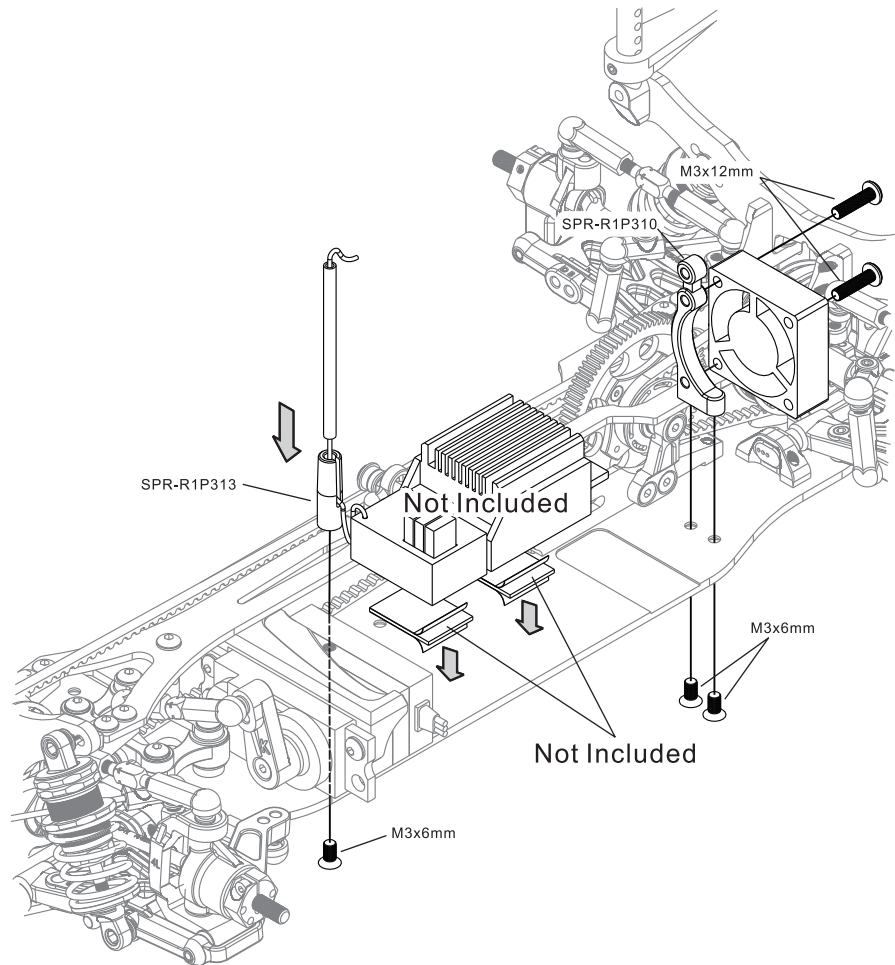


**E** + **L**  
Bag Bag

### 36 R/C Unit Installation


 x2  
Button Head Screw M3x12mm

 x3  
Flat Head Screw M3x6mm

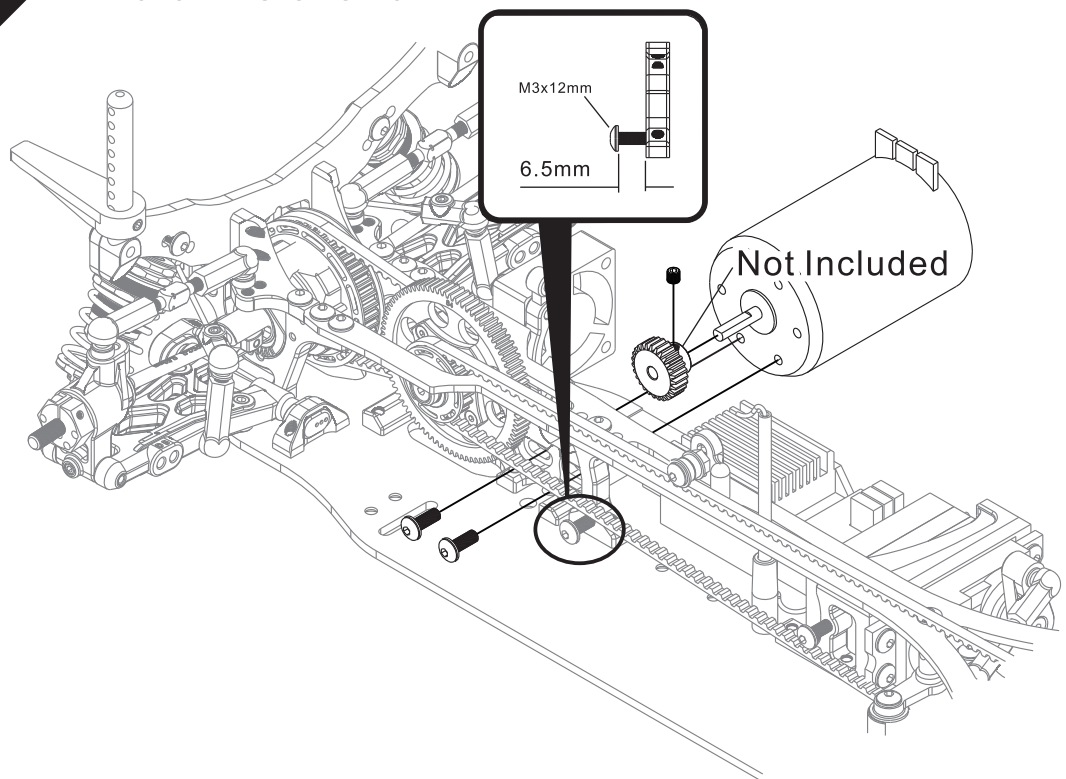


**L**  
Bag

### 37 Motor Installation


 x1  
Button Head Screw M3x12mm

 x2  
Button Head Screw M3x8mm



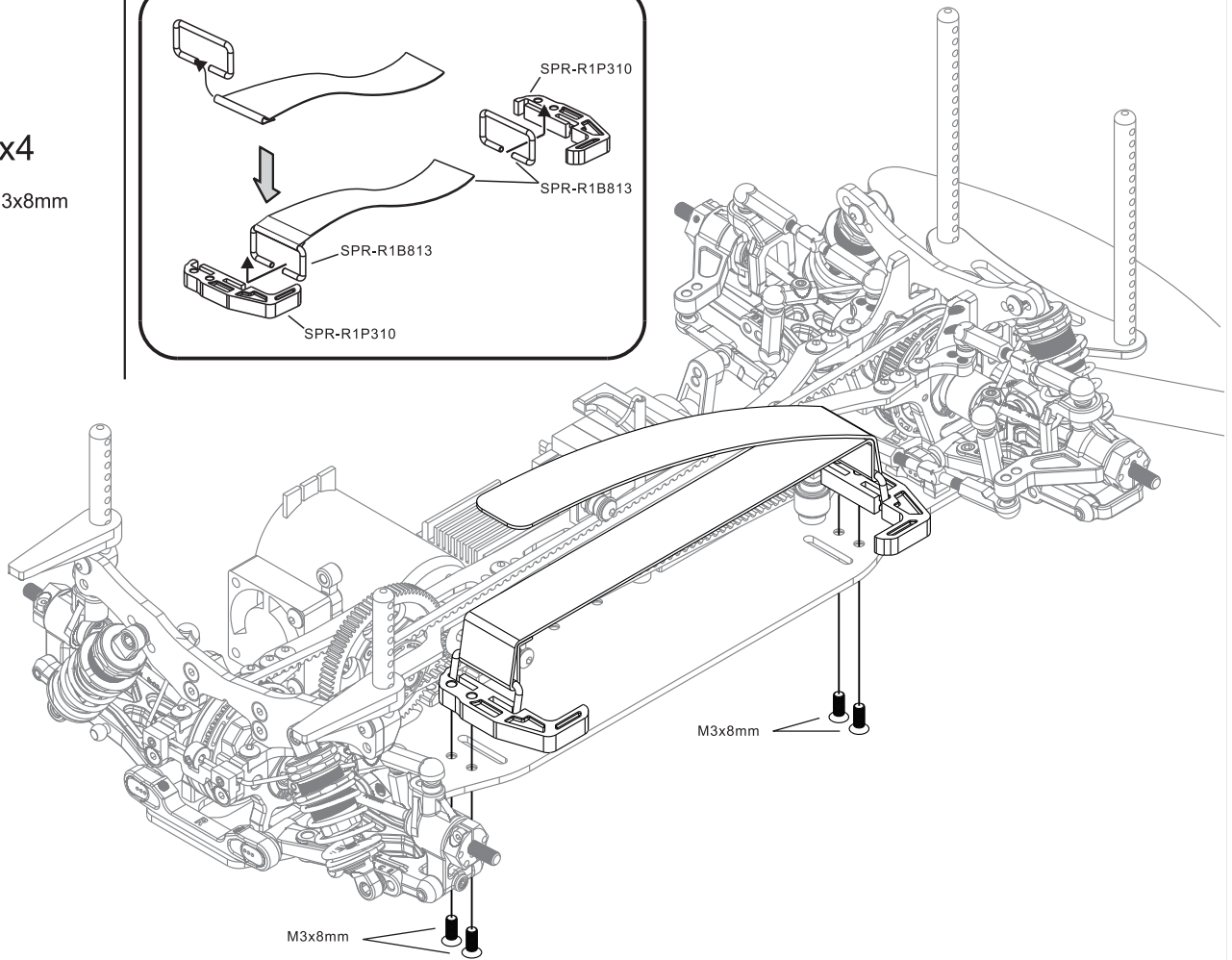
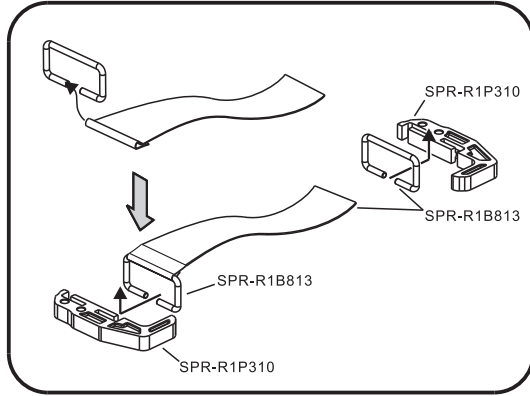
**E** + **H**  
Bag Bag

**L**  
Bag



  x4  
Flat Head Screw M3x8mm

**38**

### Battery Holder Installation

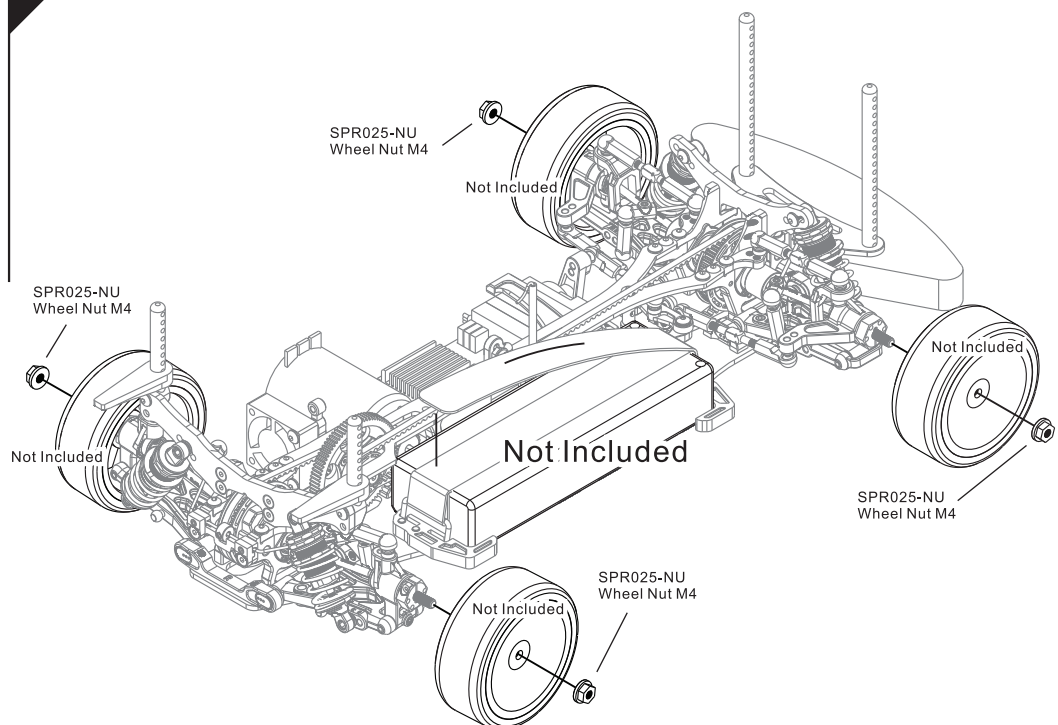


**L**  
Bag

  x4  
Wheel Nut M4

**39**

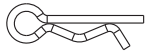
### Battery Installation







Bag

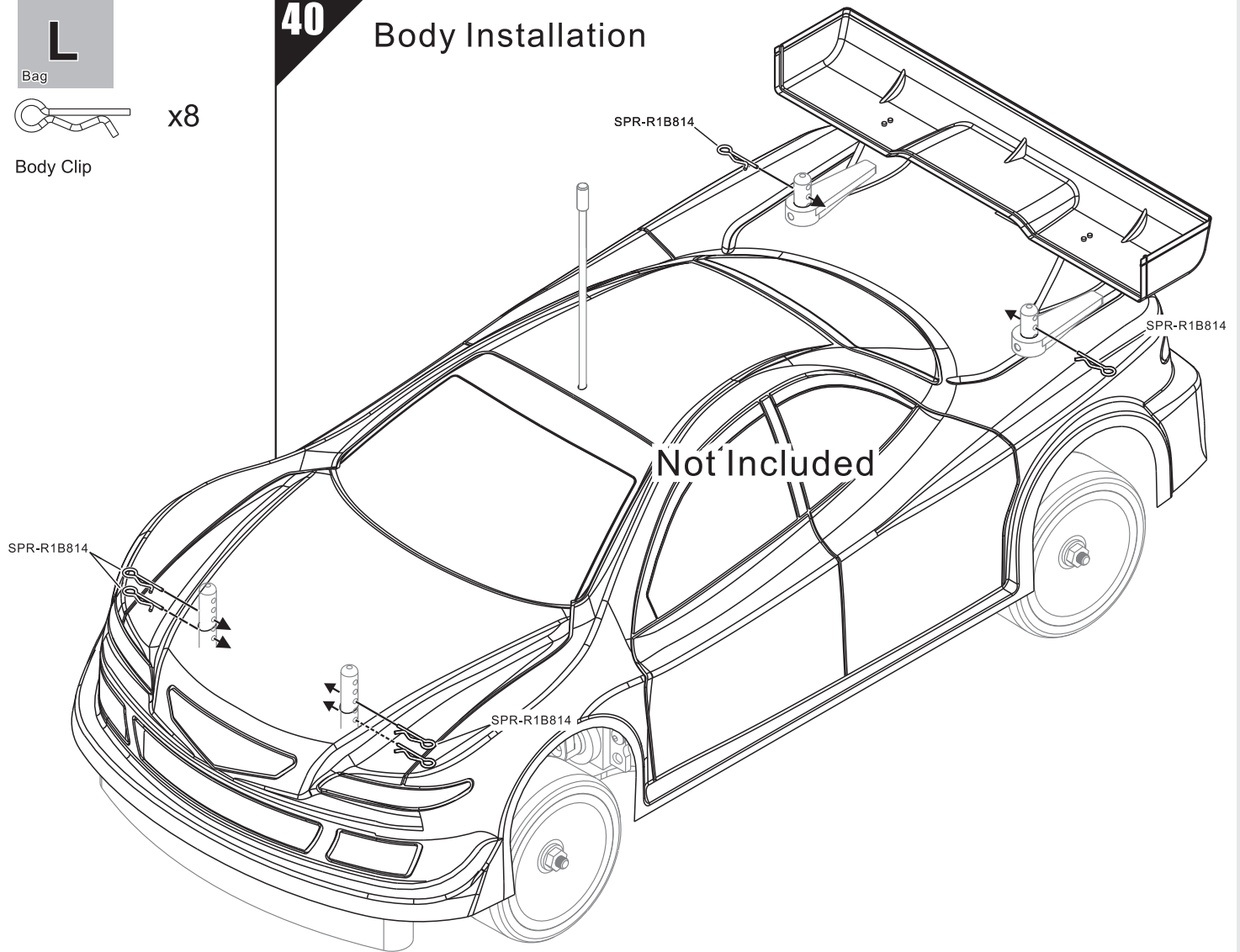


x8

Body Clip

40

## Body Installation



## Gear Ratio

$$\text{Gear Ratio} = \frac{\text{Spur Gear}}{\text{Pinion Gear}} \times 1.9$$

| Gear Ratio | Spur Gear |       |       |       |       |       |       |       |       |       |       |
|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | 79T       | 80T   | 81T   | 82T   | 83T   | 84T   | 85T   | 86T   | 87T   | 88T   | 89T   |
| 13T        | 11.55     | 11.69 | 11.84 | 11.98 | 12.13 | 12.28 | 12.42 | 12.57 | 12.72 | 12.86 | 13.01 |
| 14T        | 10.72     | 10.86 | 10.99 | 11.13 | 11.26 | 11.4  | 11.54 | 11.67 | 11.81 | 11.94 | 12.08 |
| 15T        | 10.01     | 10.13 | 10.26 | 10.39 | 10.51 | 10.64 | 10.77 | 10.89 | 11.02 | 11.15 | 11.27 |
| 16T        | 9.38      | 9.5   | 9.62  | 9.74  | 9.86  | 9.98  | 10.09 | 10.21 | 10.33 | 10.45 | 10.57 |
| 17T        | 8.83      | 8.94  | 9.05  | 9.16  | 9.28  | 9.39  | 9.5   | 9.61  | 9.72  | 9.84  | 9.95  |
| 18T        | 8.34      | 8.44  | 8.55  | 8.66  | 8.76  | 8.87  | 8.97  | 9.08  | 9.18  | 9.29  | 9.39  |
| 19T        | 7.9       | 8     | 8.1   | 8.2   | 8.3   | 8.4   | 8.5   | 8.6   | 8.7   | 8.8   | 8.9   |
| 20T        | 7.51      | 7.6   | 7.69  | 7.79  | 7.89  | 7.98  | 8.07  | 8.17  | 8.26  | 8.36  | 8.46  |
| 21T        | 7.15      | 7.24  | 7.33  | 7.42  | 7.51  | 7.6   | 7.69  | 7.78  | 7.87  | 7.96  | 8.05  |
| 22T        | 6.82      | 6.91  | 7     | 7.08  | 7.17  | 7.25  | 7.34  | 7.43  | 7.51  | 7.6   | 7.69  |
| 23T        | 6.53      | 6.61  | 6.69  | 6.77  | 6.86  | 6.94  | 7.02  | 7.1   | 7.19  | 7.27  | 7.35  |
| 24T        | 6.25      | 6.33  | 6.41  | 6.49  | 6.57  | 6.65  | 6.73  | 6.81  | 6.89  | 6.97  | 7.05  |
| 25T        | 6         | 6.08  | 6.16  | 6.23  | 6.31  | 6.38  | 6.46  | 6.54  | 6.61  | 6.69  | 6.76  |
| 26T        | 5.77      | 5.85  | 5.92  | 5.99  | 6.07  | 6.14  | 6.21  | 6.28  | 6.36  | 6.43  | 6.5   |
| 27T        | 5.56      | 5.63  | 5.7   | 5.77  | 5.84  | 5.91  | 5.98  | 6.05  | 6.12  | 6.19  | 6.26  |
| 28T        | 5.36      | 5.43  | 5.5   | 5.56  | 5.63  | 5.7   | 5.77  | 5.84  | 5.9   | 5.97  | 6.04  |





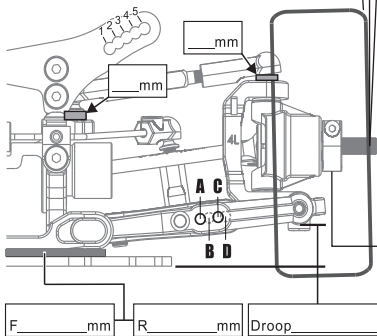
# Setup Sheet



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Event: \_\_\_\_\_

Track: \_\_\_\_\_ Track Condition: \_\_\_\_\_ Lap Time: \_\_\_\_\_ Final Position: \_\_\_\_\_

## Front



Camber Angle +/- \_\_\_\_\_°

Front Diff  Gear  Spool

Caster Angle \_\_\_\_\_°

Diff Oil # \_\_\_\_\_

Ride Height \_\_\_\_\_ mm

Sway Bar Ø \_\_\_\_\_ mm

Wheel Hubs \_\_\_\_\_ mm

Spacer \_\_\_\_\_ mm

### Shocks

Shock Oil # \_\_\_\_\_

Piston 1.1 / 1.2

O-ring \_\_\_\_\_

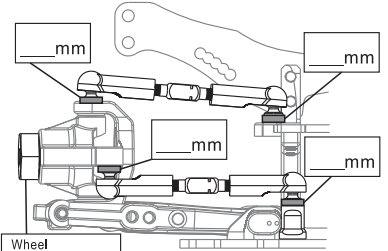
Rebound \_\_\_\_\_

Spring \_\_\_\_\_

Length \_\_\_\_\_ mm

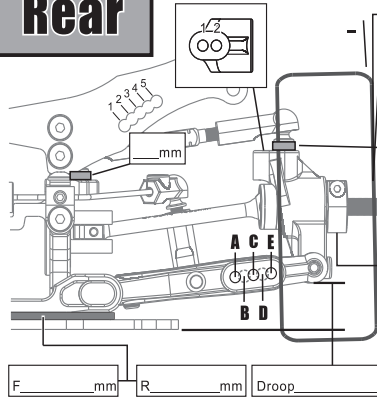
## A.R.T. SYSTEM

Active Rear Toe System



Wheel Hubs \_\_\_\_\_ mm  
Spacer \_\_\_\_\_ mm

## Rear



Camber Angle +/- \_\_\_\_\_°

Rear Diff Oil # \_\_\_\_\_

Ride Height \_\_\_\_\_ mm

Shim \_\_\_\_\_ mm

Sway Bar Ø \_\_\_\_\_ mm

Wheel Hubs \_\_\_\_\_ mm

Spacer \_\_\_\_\_ mm

### Shocks

Shock Oil # \_\_\_\_\_

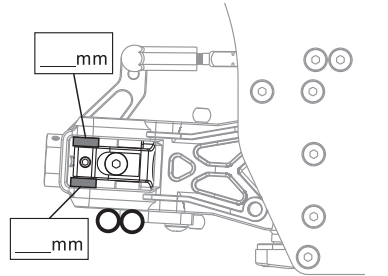
Piston 1.1 / 1.2

O-ring \_\_\_\_\_

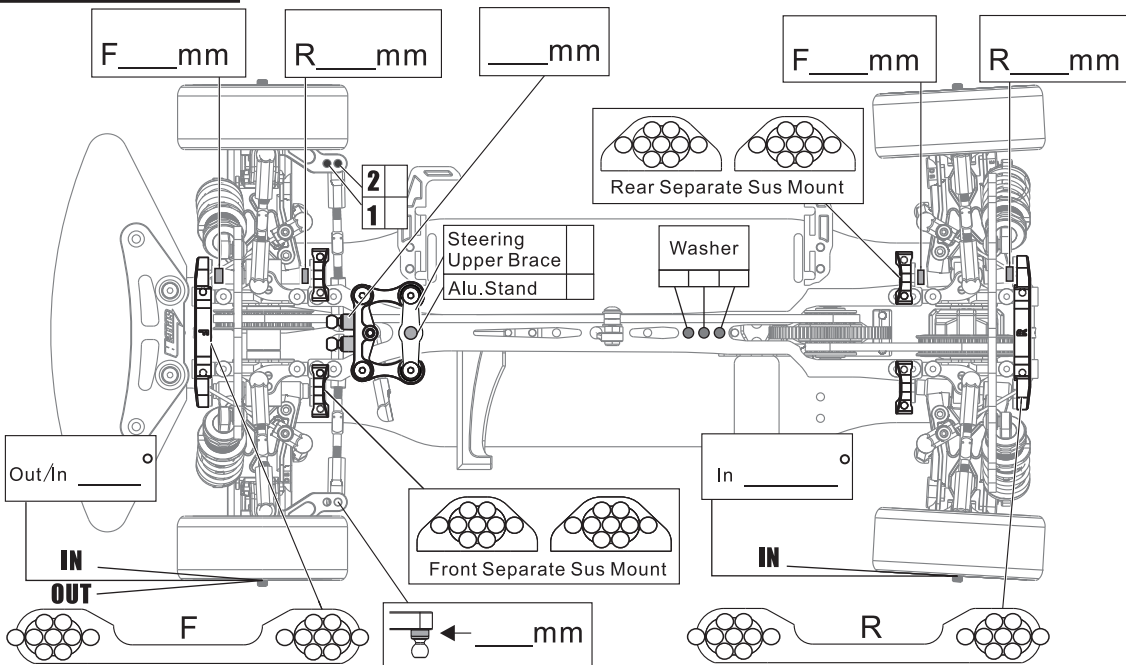
Rebound \_\_\_\_\_

Spring \_\_\_\_\_

Length \_\_\_\_\_ mm



## Chassis



## Tires

Brand: \_\_\_\_\_

Compound: \_\_\_\_\_

Insert: \_\_\_\_\_

Wheel: \_\_\_\_\_

## Others

Motor: \_\_\_\_\_

Spur Gear: \_\_\_\_\_

Pinion Gear: \_\_\_\_\_

Battery: \_\_\_\_\_

ESC: \_\_\_\_\_

Body: \_\_\_\_\_

Wing: \_\_\_\_\_

|                | Front |      |      | Rear |      |      |
|----------------|-------|------|------|------|------|------|
|                | Soft  | Hard | Alu. | Soft | Hard | Alu. |
| C-Hub          |       |      |      |      |      |      |
| Steering Block |       |      |      |      |      |      |
| Rear-Hub       |       |      |      |      |      |      |
| Arm            |       |      |      |      |      |      |

Note: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_