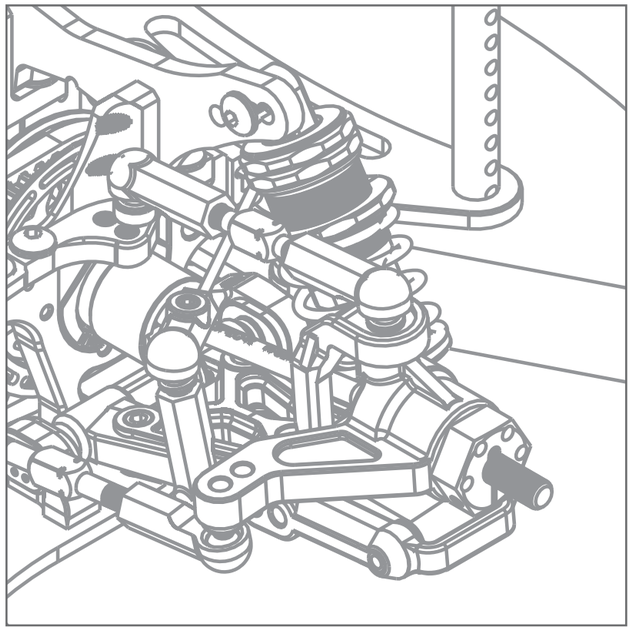
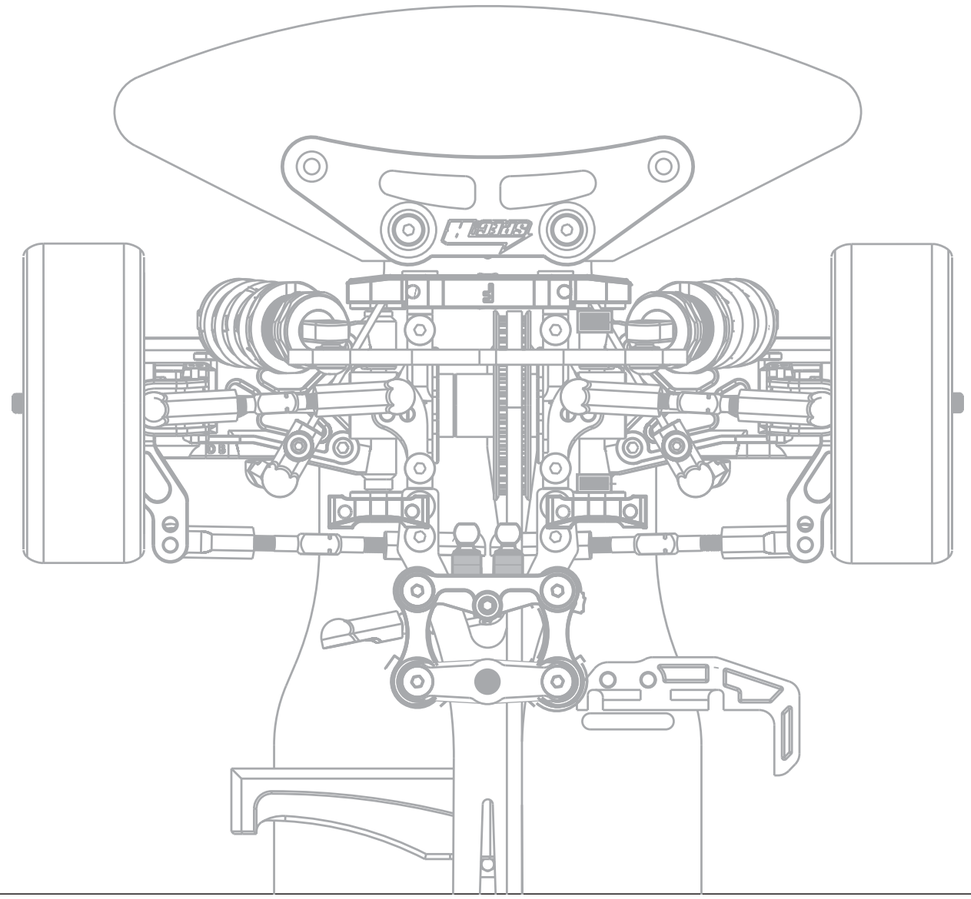


http://www.spec-r.com

Instruction Manual

Instruction Manual

Instruction Manual



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14.Rear Suspension Installation	9				

Symbols Used

Part Bags Need



Assemble Left and Right sides the same way



Pay attention here



Apply Thread Lock



(Not Included)

Apply CA glue

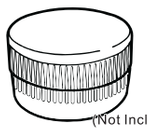


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Apply Silicone Oil

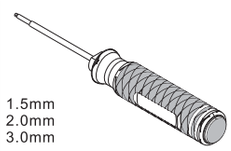


Apply grease



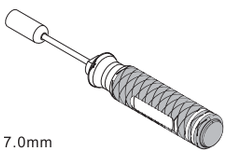
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Tools Required



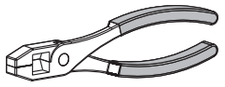
Hex wrench

(Not Included)



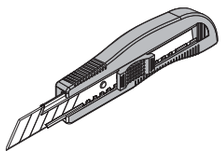
Hex wrench

(Not Included)



Pliers

(Not Included)



Modeling Knife

(Not Included)



Reamer

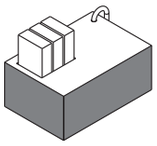
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Equipment Required



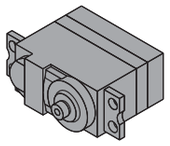
Transmitter

(Not Included)



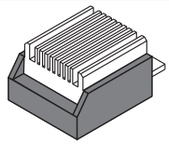
Receiver

(Not Included)



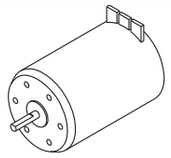
Steering Servo

(Not Included)



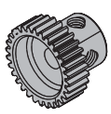
Speed Controller

(Not Included)



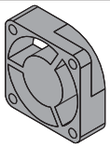
Electric Motor

(Not Included)



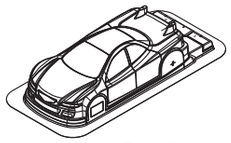
Pinion Gear

(Not Included)



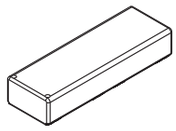
30mm Fan

(Not Included)



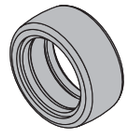
Body Shell

(Not Included)



Battery

(Not Included)

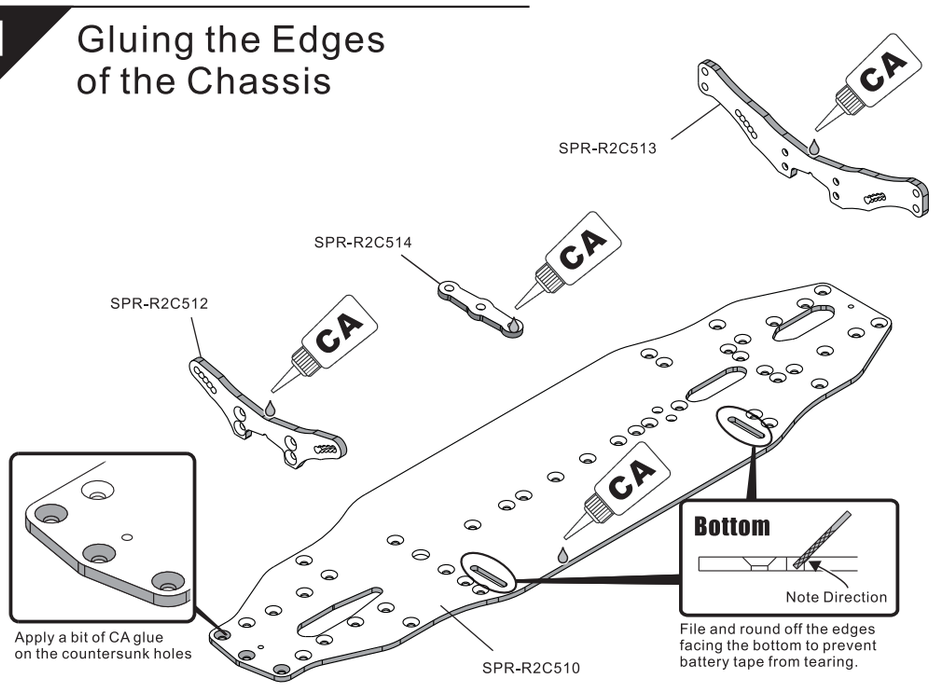


Tires & Inserts

(Not Included)

A
Bag

1 Gluing the Edges of the Chassis



A Bag + C Bag

L
Bag

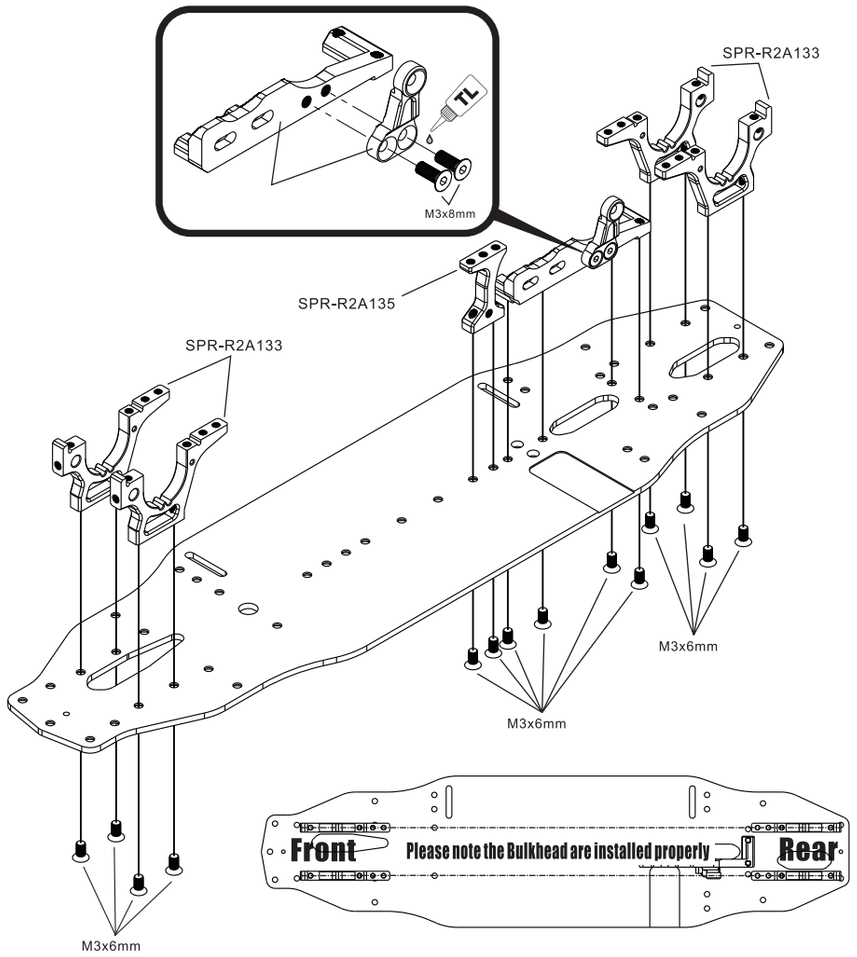
x2

Flat Head Screw **M3x8mm**

x 14

Flat Head Screw **M3x6mm**

2 Bulkhead Installation



E Bag + L Bag

M Bag

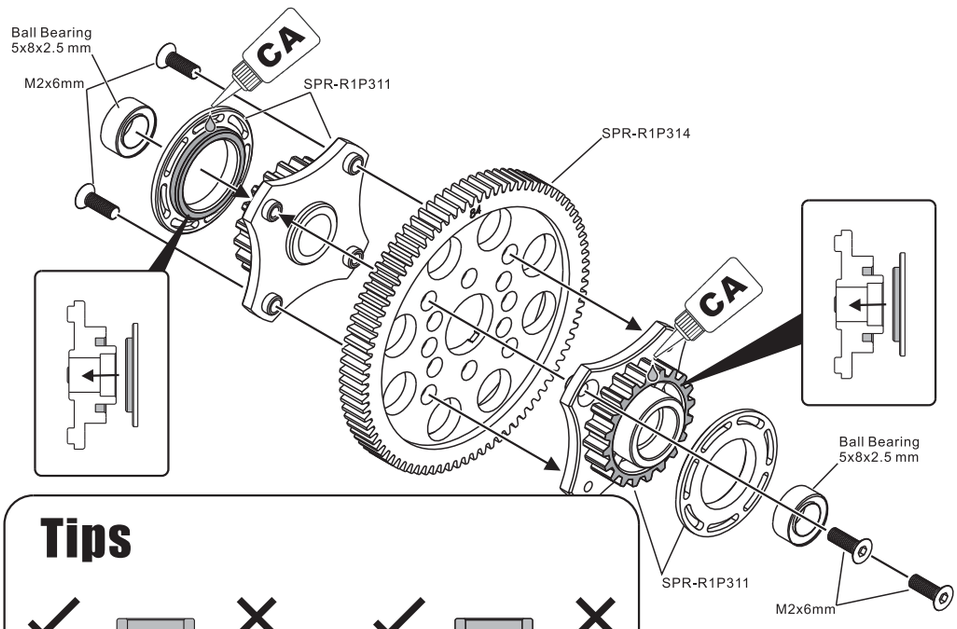
x4

Flat Head Screw **M2x6mm**

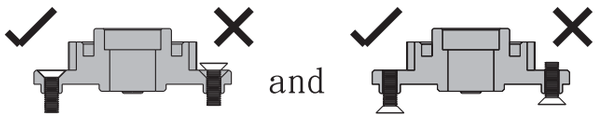
x2

Ball Bearing **5x8x2.5mm**

3 Spur Gear Assembly



Tips



and

Screws should be tightened
properly as shown.

D Bag + E Bag

L Bag + M Bag

x2

Front Spool Outdrive Adapters

x2

Flat Head Screw **M3x14mm**

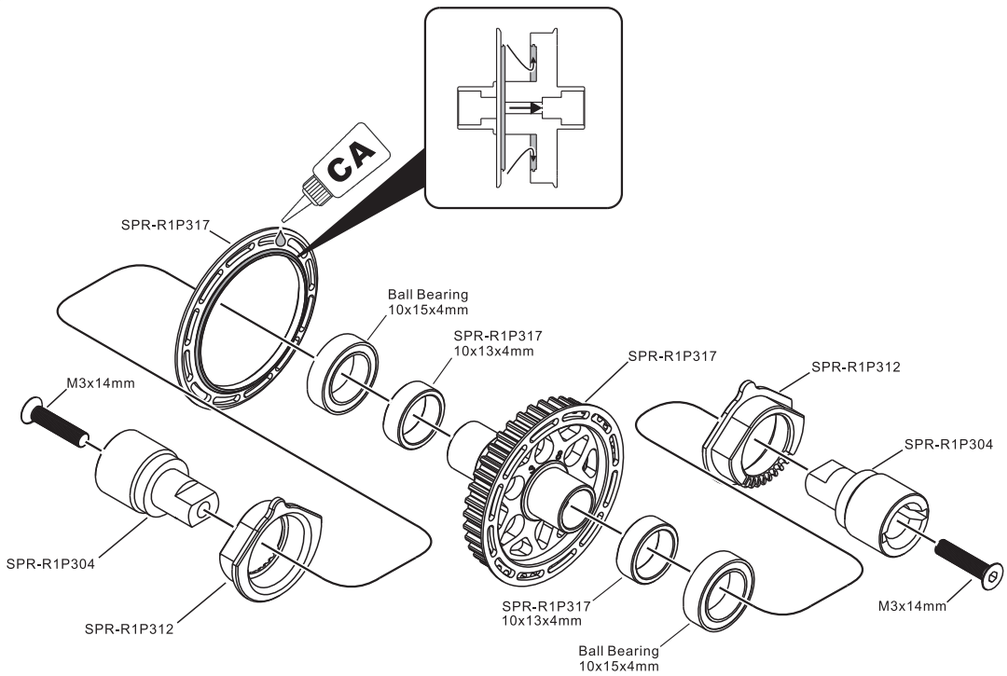
x2

Ball Bearing **10x15x4mm**

x2

Plastic Collar **10x13x4mm**

4 Front Spool Assembly



D Bag + E Bag

M Bag

x2
GearDiff.Joint

x4
FlatHeadScrew**M2.6x10mm**

x2
BevelGear

x4
SatelliteGear

x1
GearAxial

x2
BallBearing**10x15x4mm**

x2
O-Ring

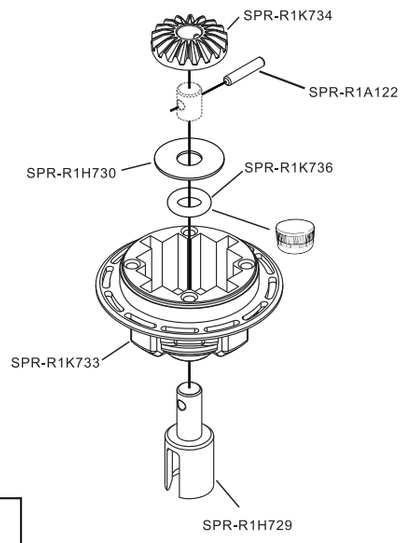
x4
Shim3**x11x0.2mm**

x2
Pin2**x10mm**

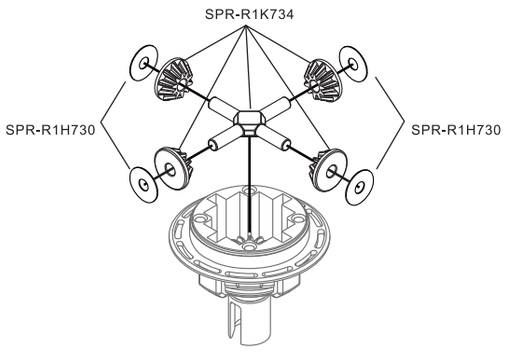
x2
Shim5**x14x0.5mm**

x1
O-ring**22x0.6mm**

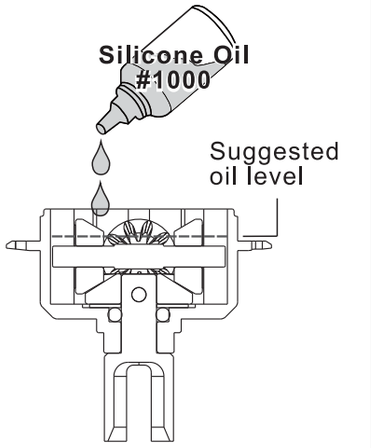
5 Gear Differential Assembly (Full Set HD Gear Differential . SPR-R1K732)



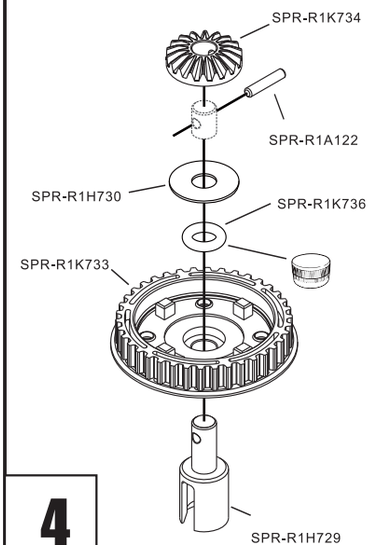
1



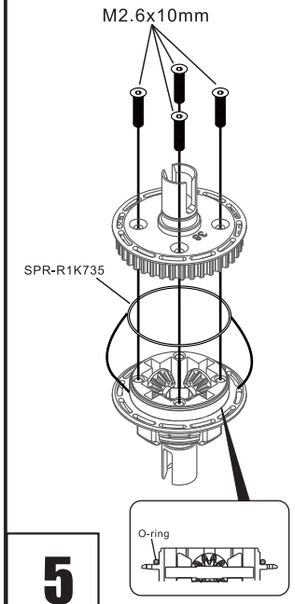
2



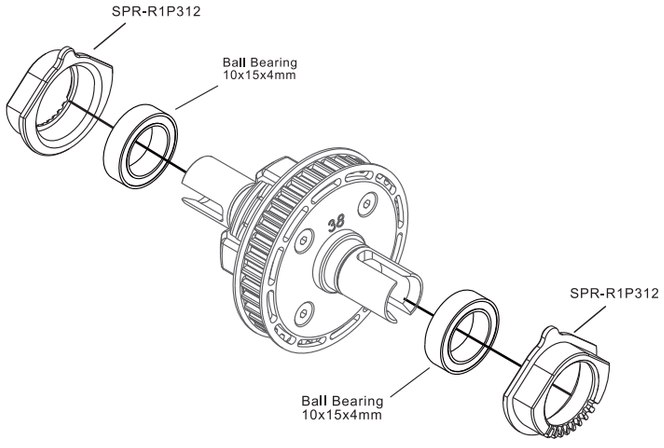
3



4



5



6

F Bag + G Bag

H Bag + L Bag

x 2

Flat Head Screw **M3x8mm**

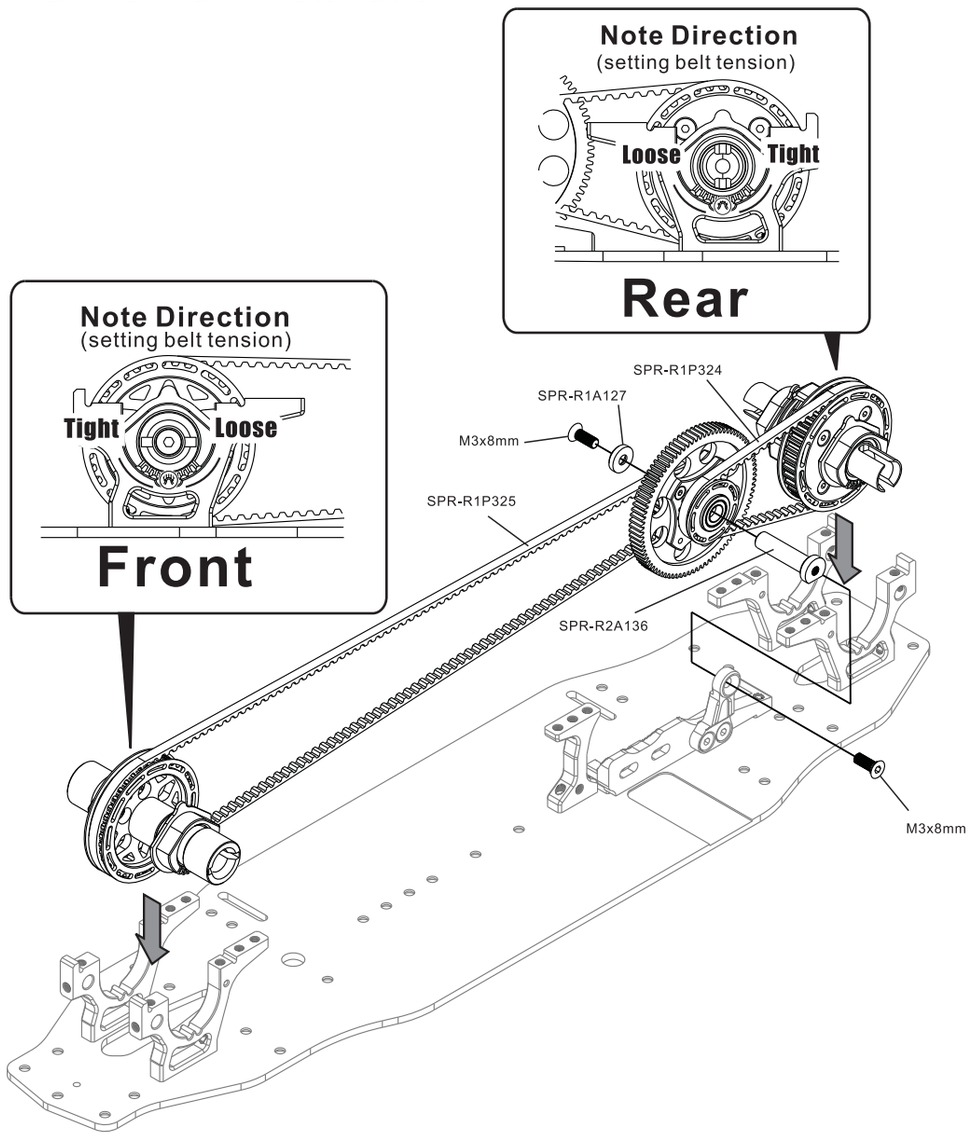
x1

Alu.Flat Head Washer **M3**

x1

Spur Gear Shaft

6 Drive Train Installation



A Bag + C Bag

G Bag + L Bag

x4

Button Head Screw **M3x6mm**

x4

Flat Head Screw **M3x6mm**

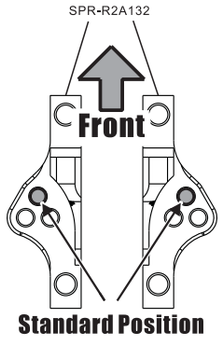
x2

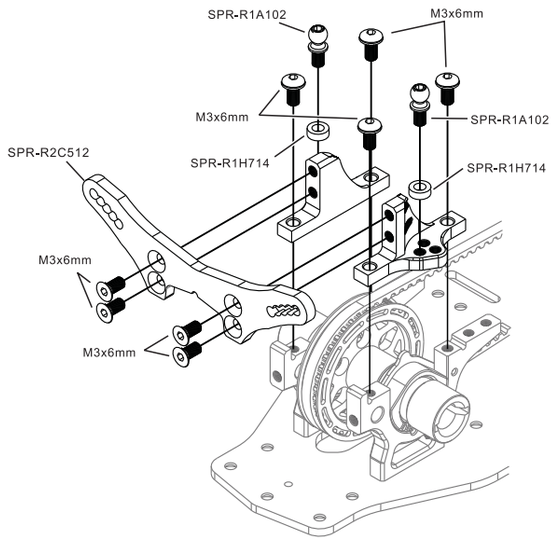
Alu. Ball Stud **4.7x5mm** (2mm Socket)

x2

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

7 Front Shock Mount Assembly and Installation





A Bag + C Bag

G Bag + L Bag

x4

Button Head Screw **M3x6mm**

x4

Flat Head Screw **M3x6mm**

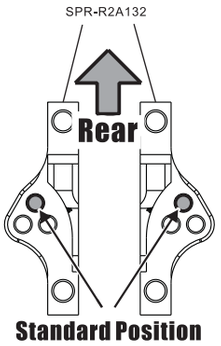
x2

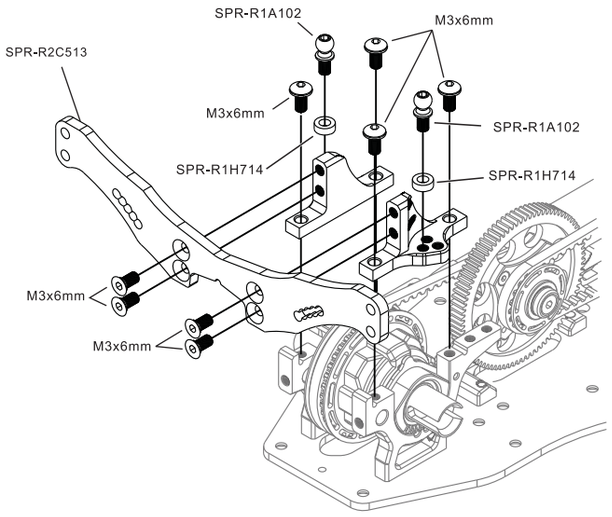
Alu.Ball Stud 4.7x5mm (2mm Socket)

x2

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

8 Rear Shock Mount Assembly and Installation





A Bag + G Bag

M Bag + L Bag

x 5

Button Head Screw **M3x6mm**

x2

Flat Head Screw **M3x6mm**

x2

Ball Bearing **3x6x2.5mm**

x4

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

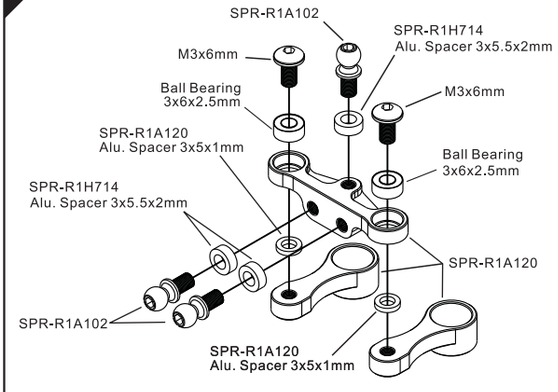
x 2

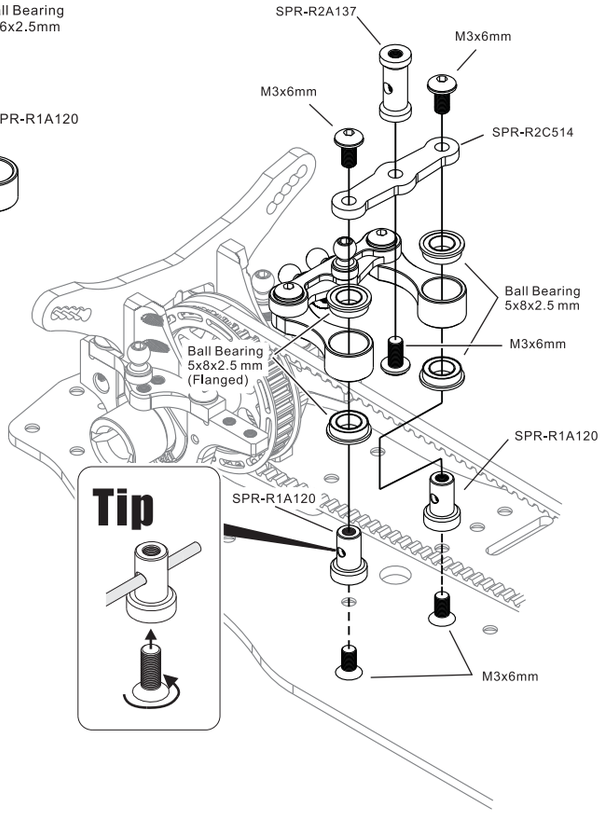
Steering Post

x 1

Alu. Stand

9 Steering Crank Assembly





x 3

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

x 3

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

x2

Alu. Spacer **3x5x1mm**

A Bag + E Bag

G Bag + L Bag

M Bag

x 11

Button Head Screw **M3x6mm**

x1

Button Head Screw **M3x12mm**

x2

Ball Bearing **3x6x2.5mm**

x1

Lock Nut M3

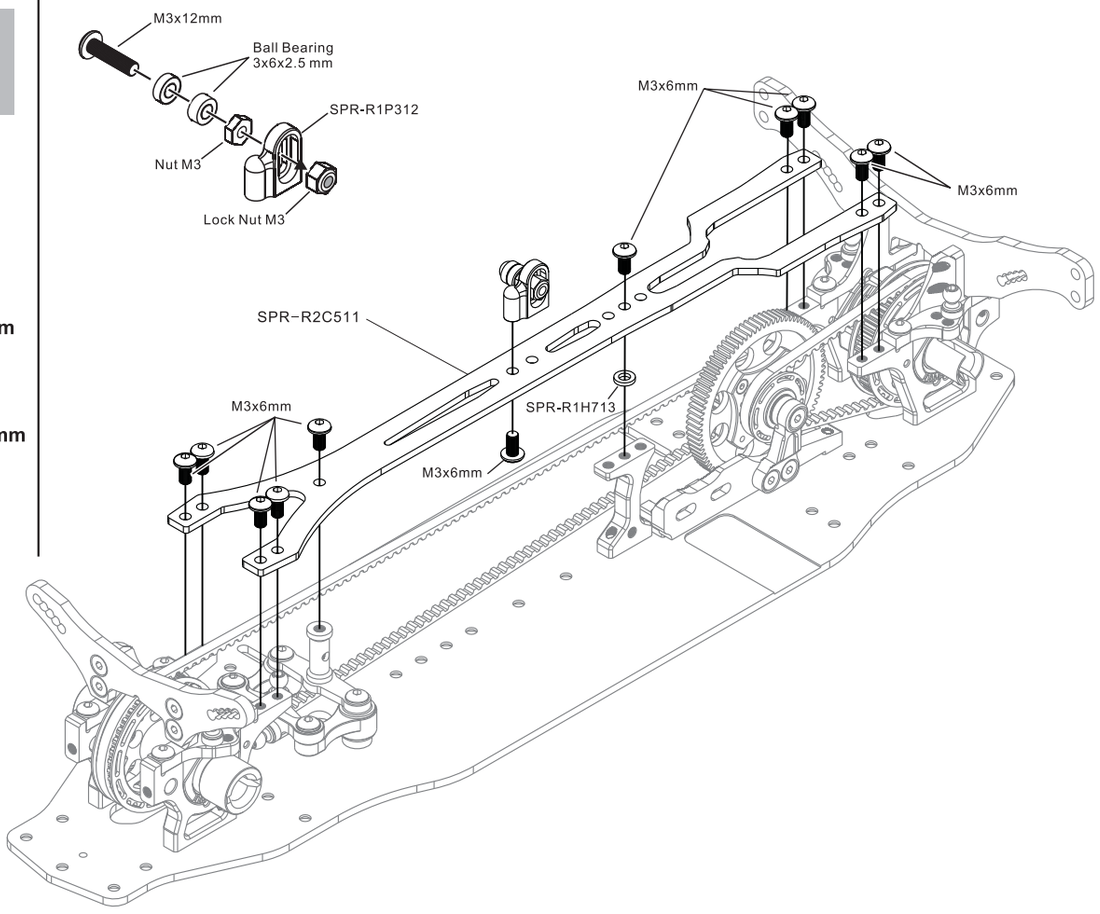
x1

Nut M3

x 1

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

10 Upper Deck Installation



B Bag + H Bag

L Bag

x2

Set Screw **M4x8mm**

x4

Pivot Ball **3x5mm**

x2

Plastic Spacer **3x5x2mm**

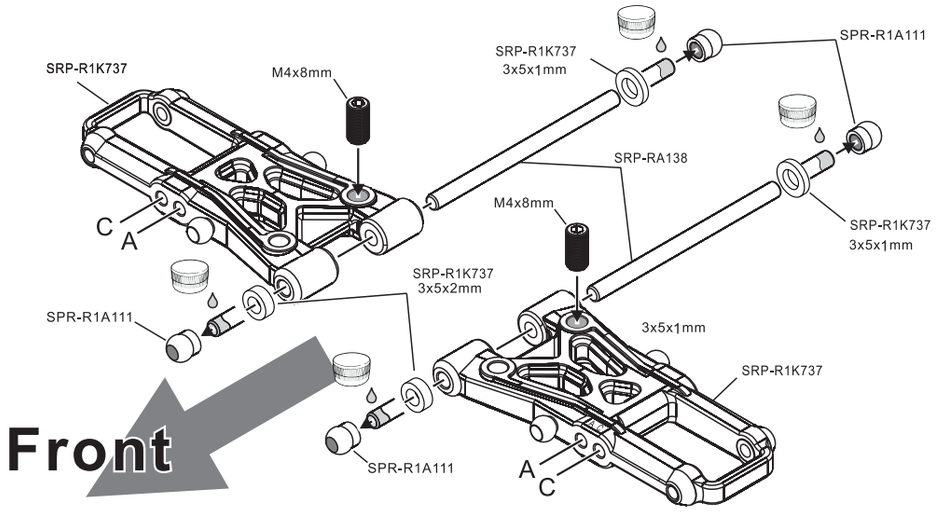
x2

Plastic Spacer **3x5x1mm**

x2

Pivot Pin **3x45mm**

11 Front Suspension Arm Assembly



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

C Bag + E Bag

L Bag

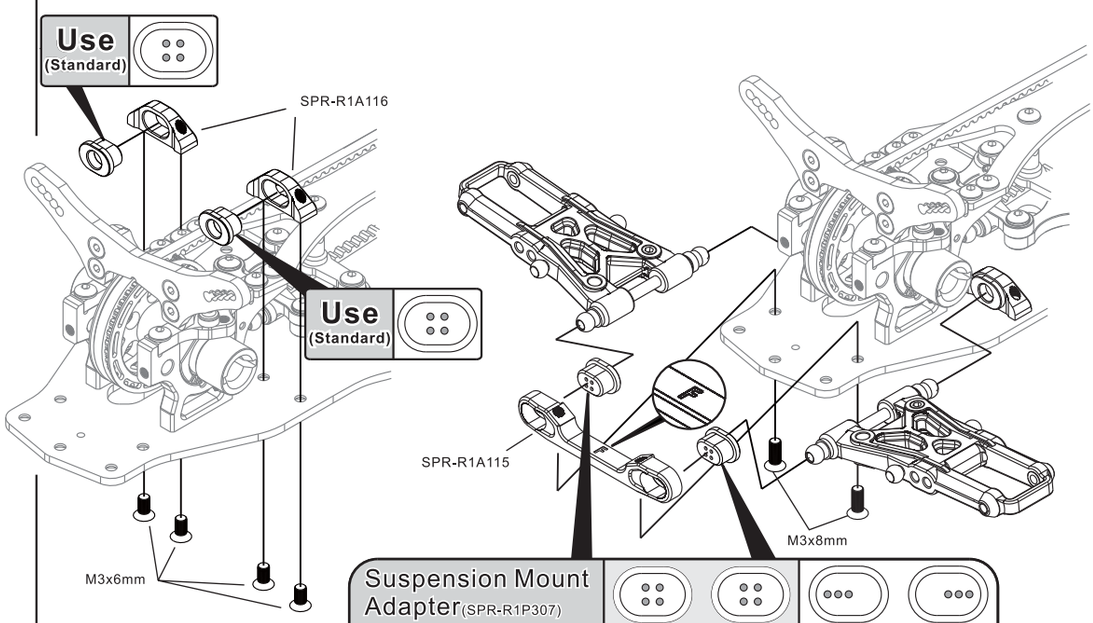
x4

Flat Head Screw **M3x6mm**

x2

Flat Head Screw **M3x8mm**

12 Front Suspension Installation



Suspension Mount Adapter (SPR-R1P307)		
Toe Angle	0° (Standard)	Out 0.5°
Suspension Mount Adapter (SPR-R1P307)		
Toe Angle	Out 1.0°	Out 1.5°

B Bag + H Bag

L Bag

x2

Set Screw **M4x8mm**

x4

Pivot Ball **3x5mm**

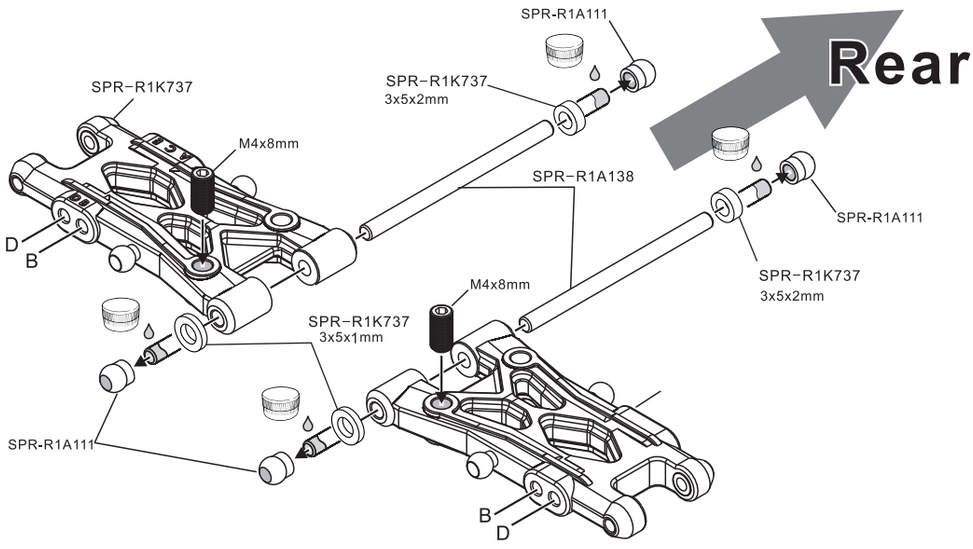
x2

Plastic Spacer **3x5x3mm**

x2

Pivot Pin **3x45mm**

13 Rear Suspension Arm Assembly



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

C Bag + E Bag

L Bag

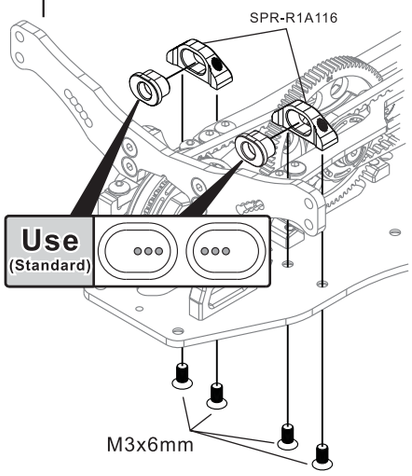
x4

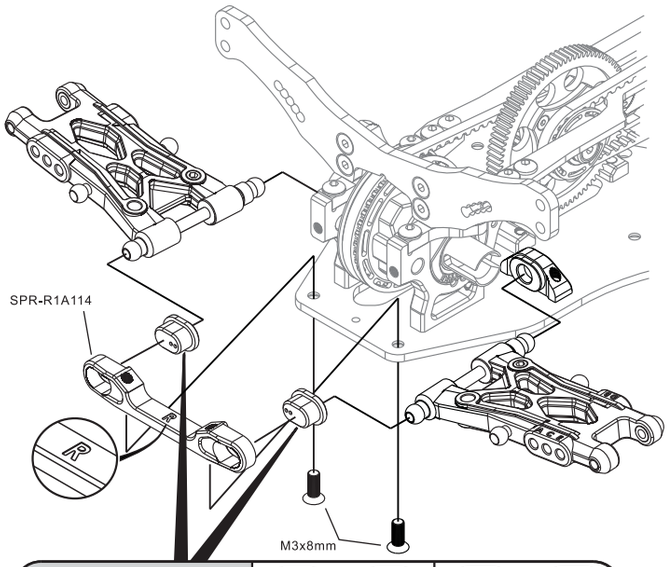
Flat Head Screw **M3x6mm**

x2

Flat Head Screw **M3x8mm**

14 Rear Suspension Installation





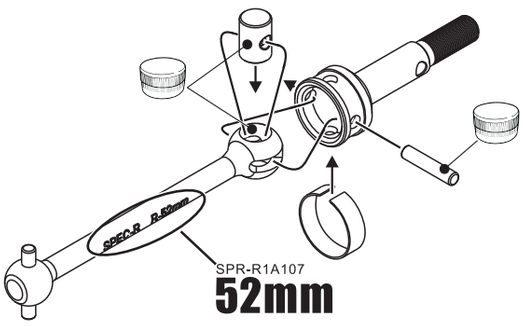
Suspension Mount Adapter (SPR-R1P307)		
Toe Angle	In 3.5°	In 3.0°
Suspension Mount Adapter (SPR-R1P307)		
Toe Angle	In 2.5° (Standard)	In 2.0°

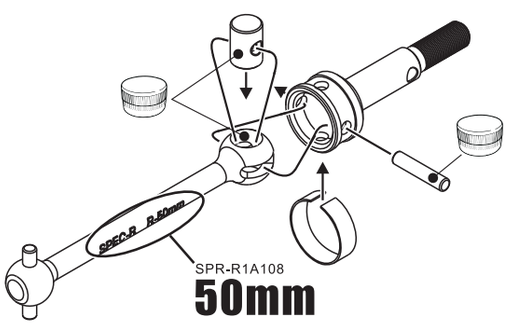
I Bag

15 Drive Shaft Assembly (50 ,52mm)

2x Make 2

2x Make 2





B Bag + G Bag

H Bag + L Bag

M Bag

x2

Button Head Screw **M3x8mm**

x2

Cap Head Screw **M2x5mm**

x4

Ball Bearing **5x10x4mm**

x2

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

x2

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

x4

Steering Block Bushing

x2

Plastic Spacer **5x7x1.5mm**

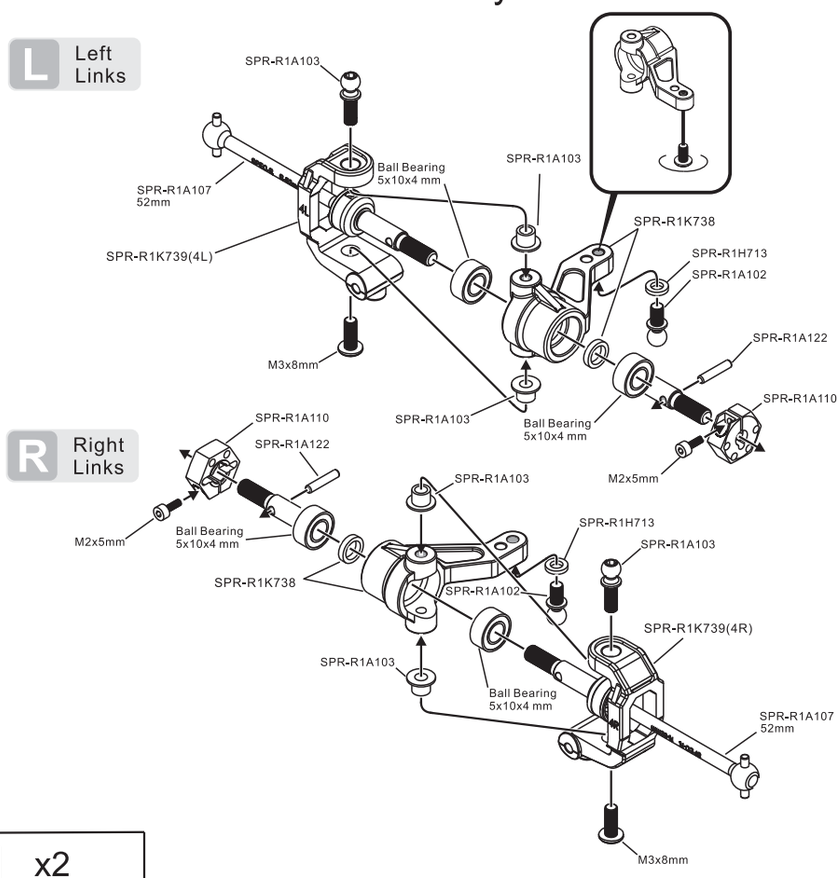
x2

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

x2

Pin **2x10mm**

16 Front Hub Carrier Assembly



C-Hub (Soft) SPR-R1P301
Carbon C-Hub (Hard) SPR-R1K739

Steering Block (Soft) SPR-R1P303
Carbon Steering Block (Hard) SPR-R1K738

H Bag + L Bag

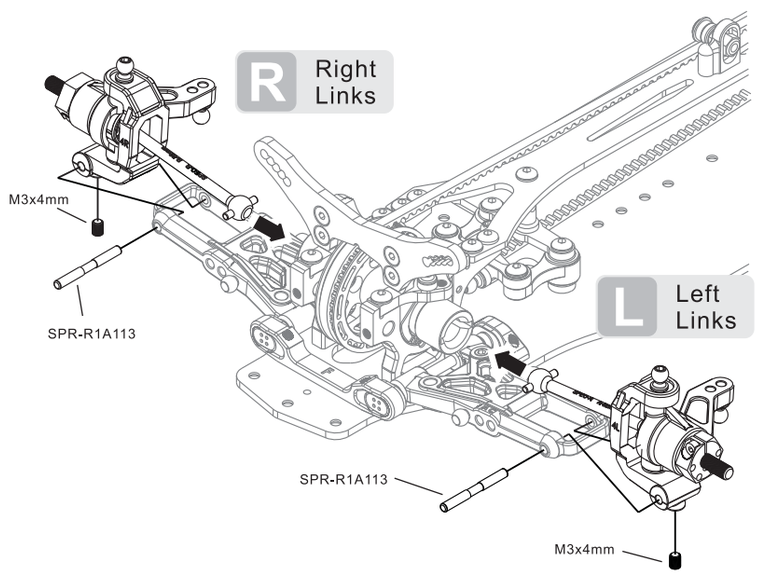
x2

Set Screw **M3x4mm**

x2

Outer Pivot Pin **2.5x24mm**

17 Front Suspension Installation



B Bag + D Bag

G Bag + H Bag

L Bag + M Bag

x2

Cap Head Screw **M2x5mm**

x4

Ball Bearing **5x10x4mm**

x2

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

x2

Plastic Spacer **5x7x1.5mm**

x2

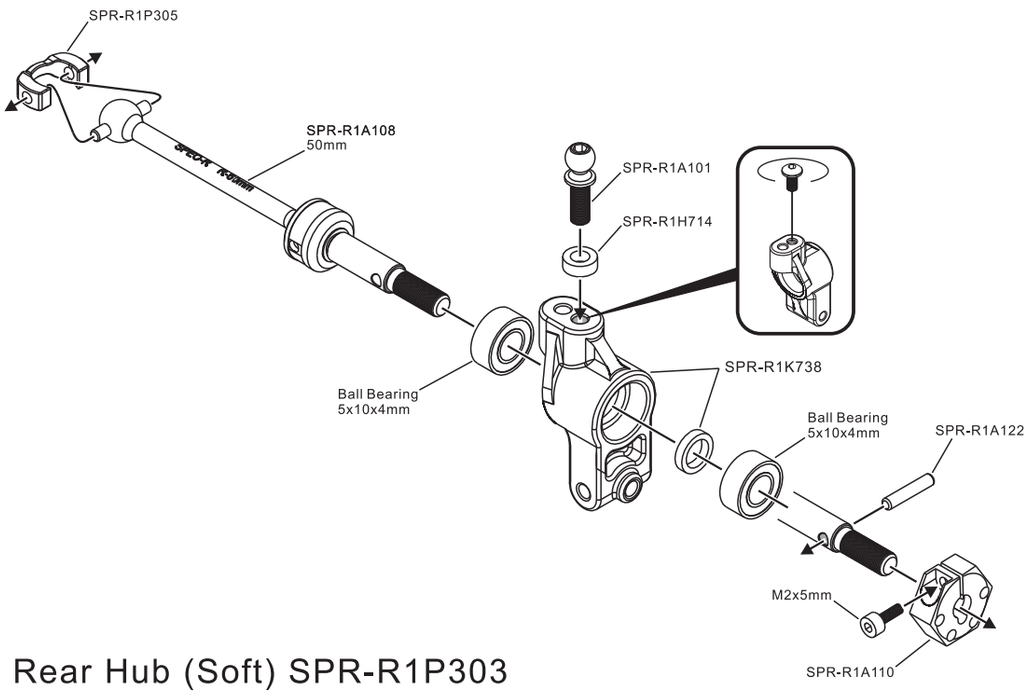
Alu. Spacer **3x5.5x2mm**

x2

Pin **2x10mm**

18 Rear Carrier Assembly

2x Make 2



Rear Hub (Soft) SPR-R1P303
Carbon Rear Hub (Hard) SPR-R1K738

H Bag + L Bag

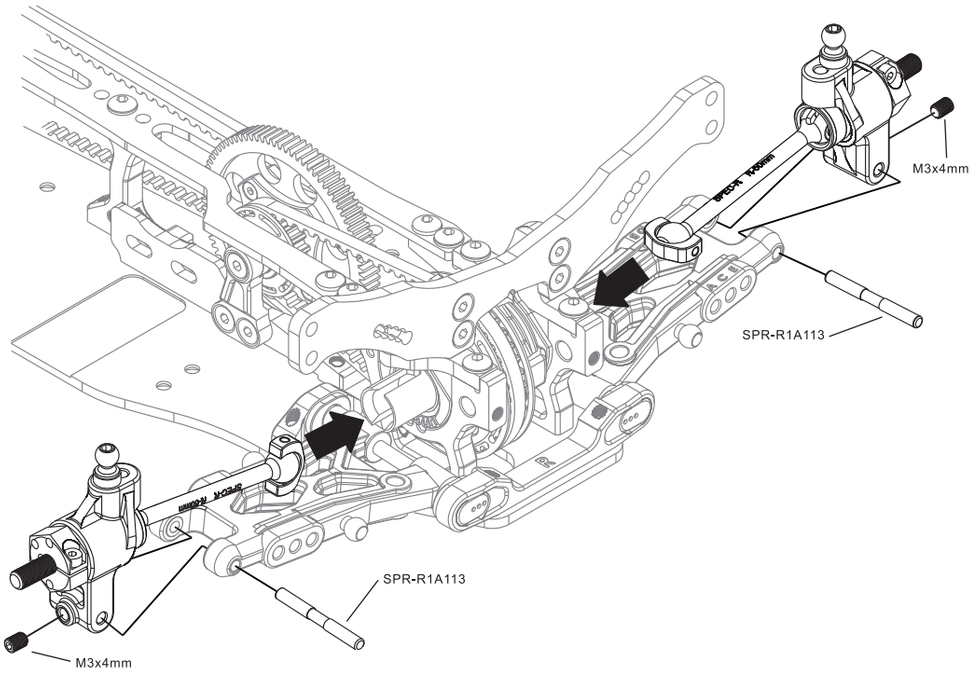
x2

Set Screw **M3x4mm**

x2

Outer Pivot Pin **2.5x24mm**

19 Rear Suspension Installation



E Bag + G Bag



x14

End Cap 4.7x20mm



x2

Alu. Tumbuckle M3x36mm



x4

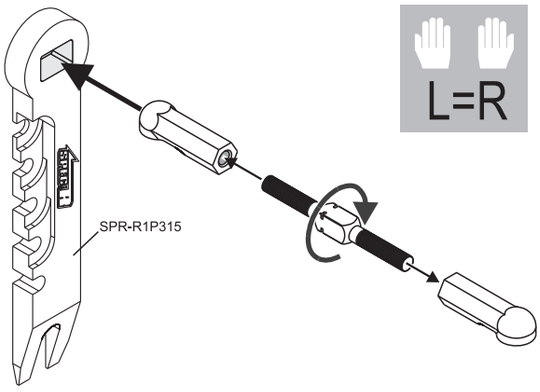
Alu. Tumbuckle M3x28mm



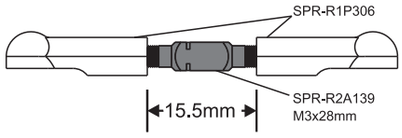
x1

Alu. Tumbuckle M3x20mm

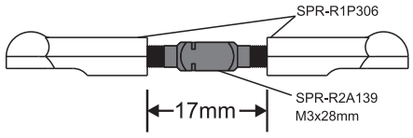
20 Upper Arm and Steering Rod Assembly



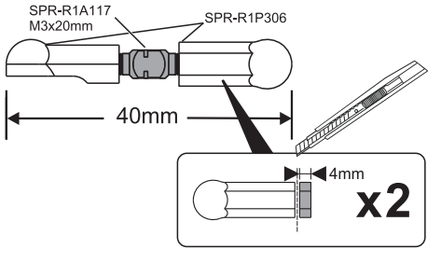
A Front Rod x2



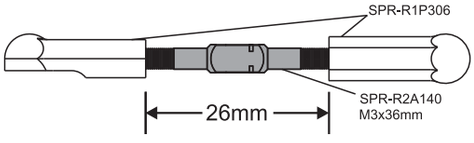
B Rear Rod x2



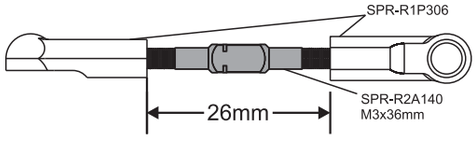
C Steering Rod-1 x1



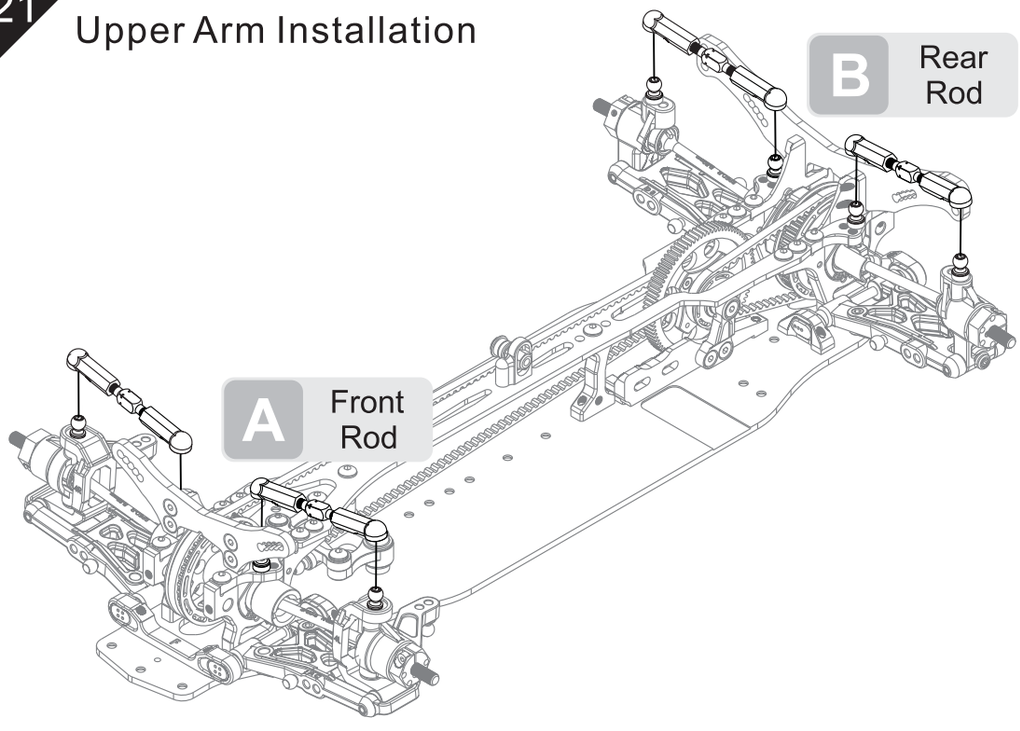
E Steering Rod-L x1



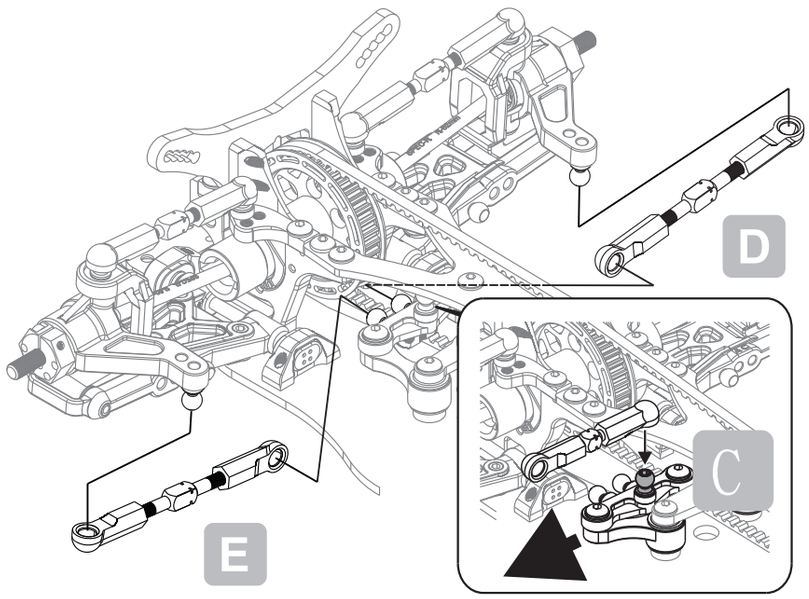
D Steering Rod-R x1



21 Upper Arm Installation



22 Steering Rod Installation



E Bag + G Bag

x4

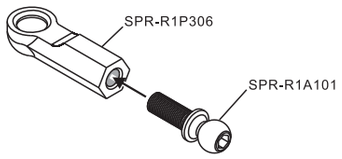
EndCap 4.7x20mm

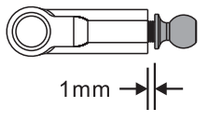
x4

Alu. Ball Stud 4.7x8mm (2mm Socket)

23 Sway Bar Linkage Assembly

4x Make 4





E Bag + G Bag

H Bag + J Bag

L Bag

x2

Flat Head Screw M3x10mm

24 Front Sway Bar Installation

x5

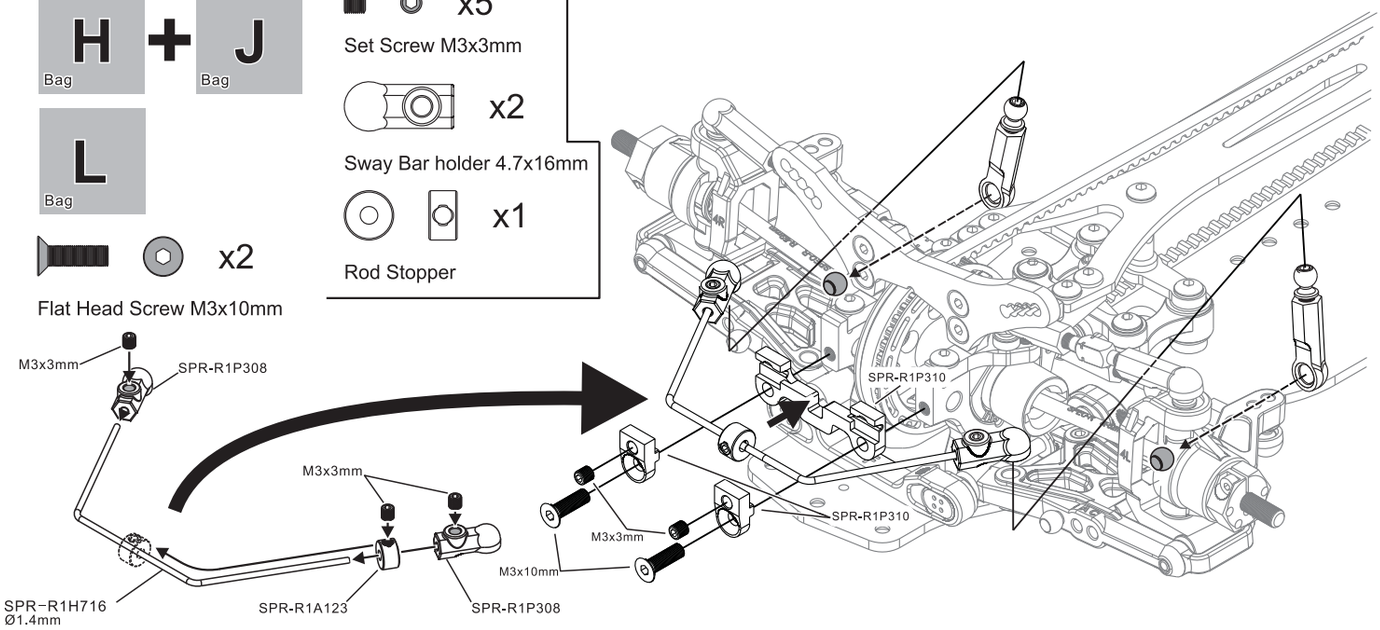
Set Screw M3x3mm

x2

Sway Bar holder 4.7x16mm

x1

Rod Stopper



E Bag + G Bag

H Bag + J Bag

L Bag

x2

Flat Head Screw M3x10mm

x5

Set Screw M3x3mm

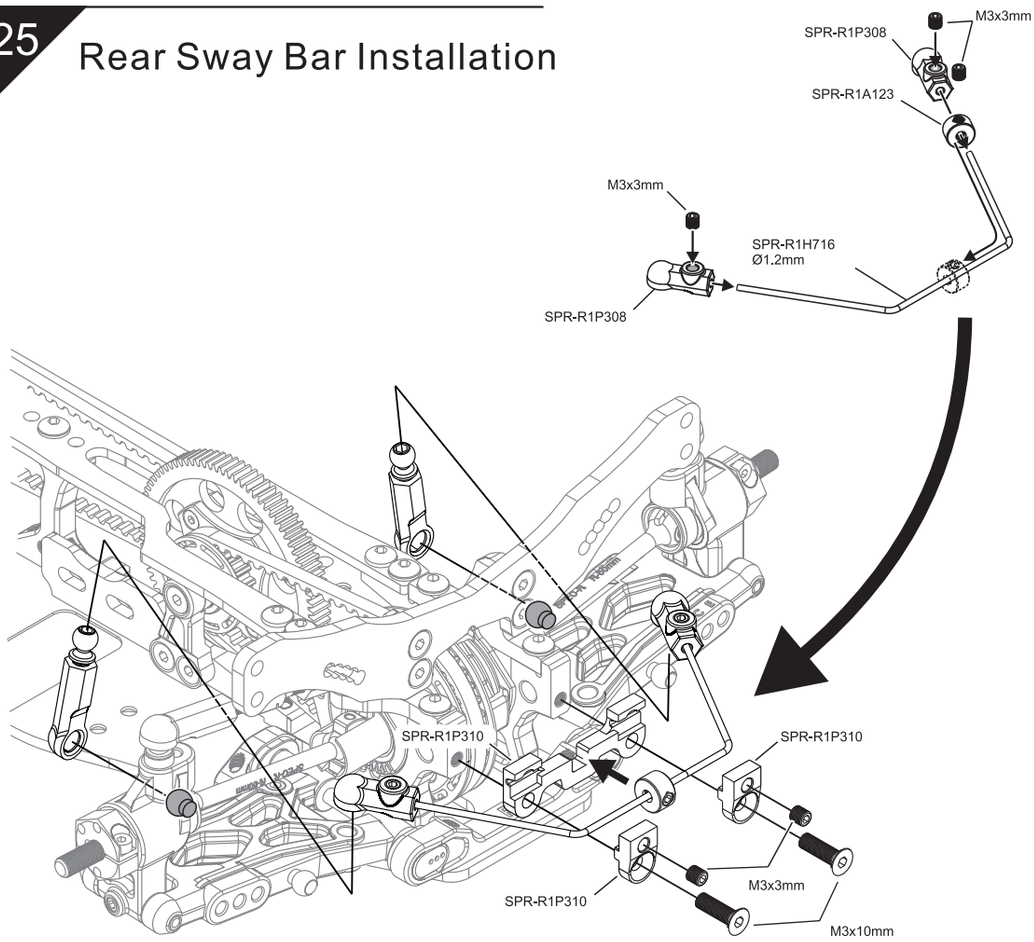
x2

Sway Bar holder 4.7x16mm

x1

Rod Stopper

25 Rear Sway Bar Installation



E Bag + J Bag + K Bag

x4

Shock Shaft 26mm

x8

E Clip 2mm

x4

Shaft Guide

x4

O-ring Guide

x4

Shock Piston(Φ1.1)

x4

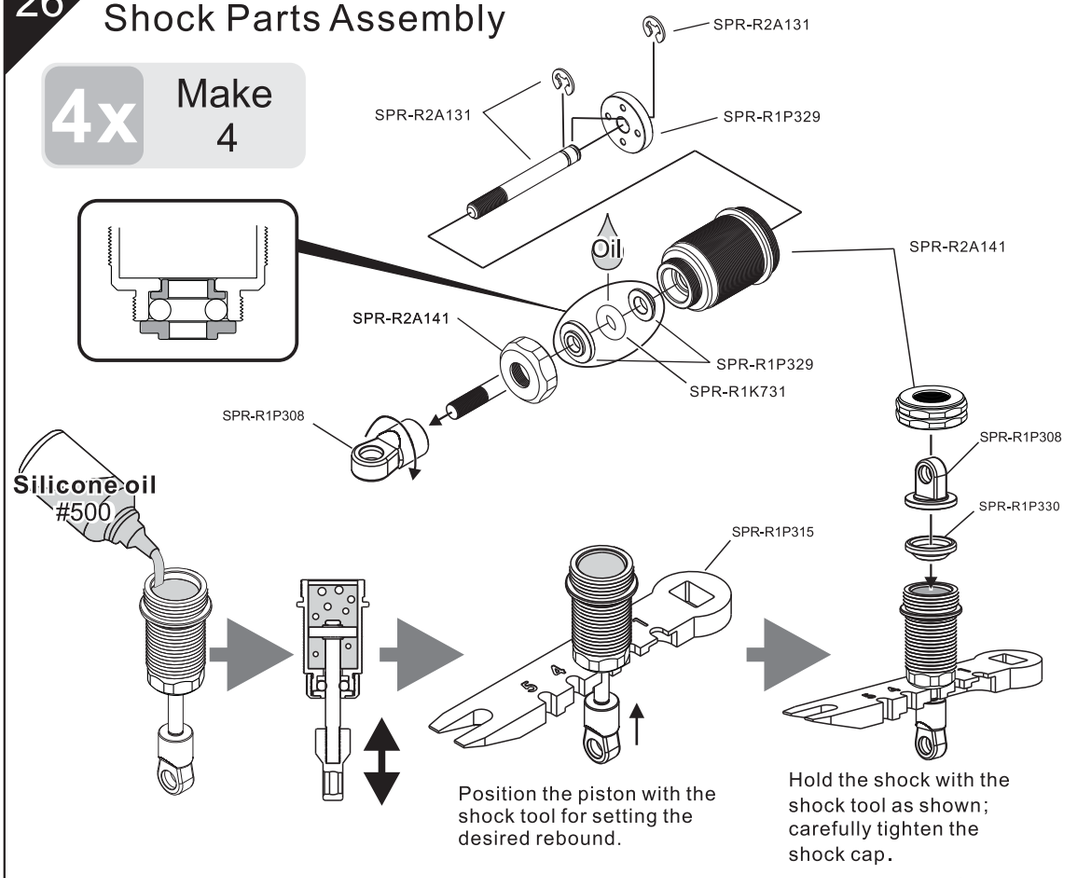
Bladder

x4

O-ring

26 Shock Parts Assembly

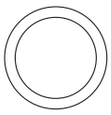
4x Make 4



Position the piston with the shock tool for setting the desired rebound.

Hold the shock with the shock tool as shown; carefully tighten the shock cap.

J Bag

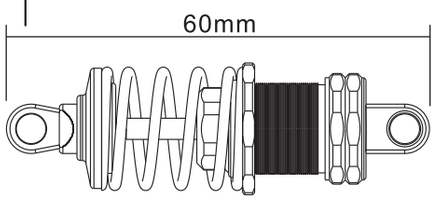


x4

O-ring 15X1mm

27 Shock Assembly

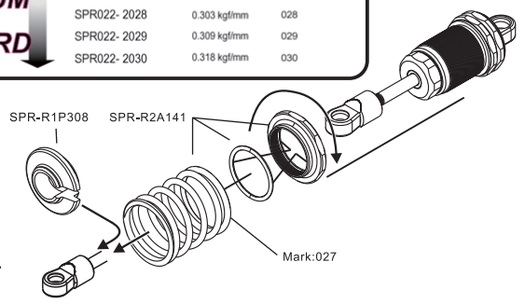
4x Make 4



Spring Set:SPR022-20KI

20mm Big Bore Shock Spring for 1/10 Touring Car

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



J Bag + L Bag



x2

Button Head Screw M3x6



x2

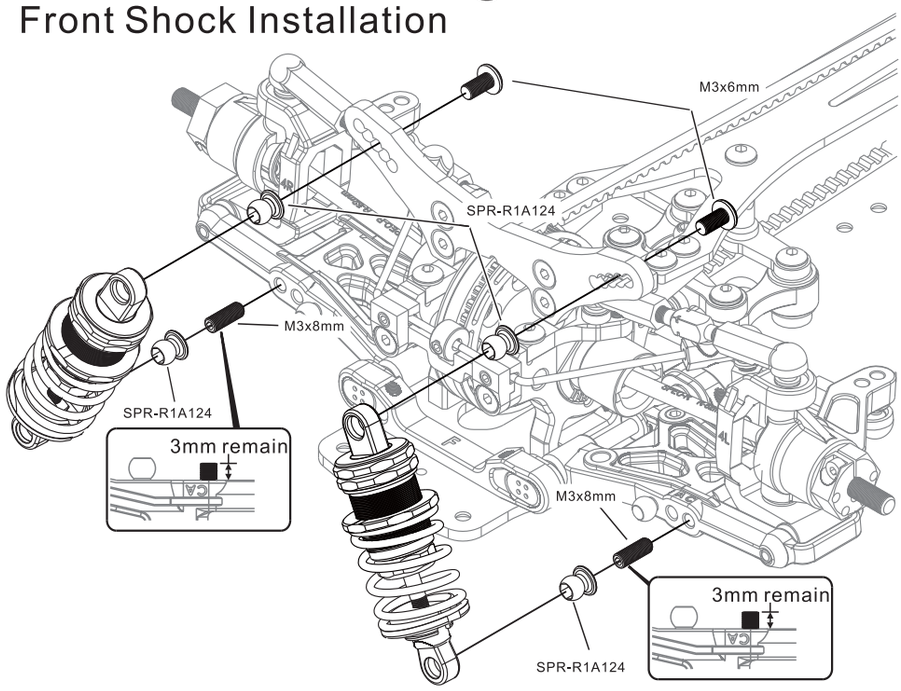
Set Screw M3x8mm



x4

Ball Universal 4.7mm

28 Front Shock Installation



J Bag + L Bag



x2

Button Head Screw M3x6



x2

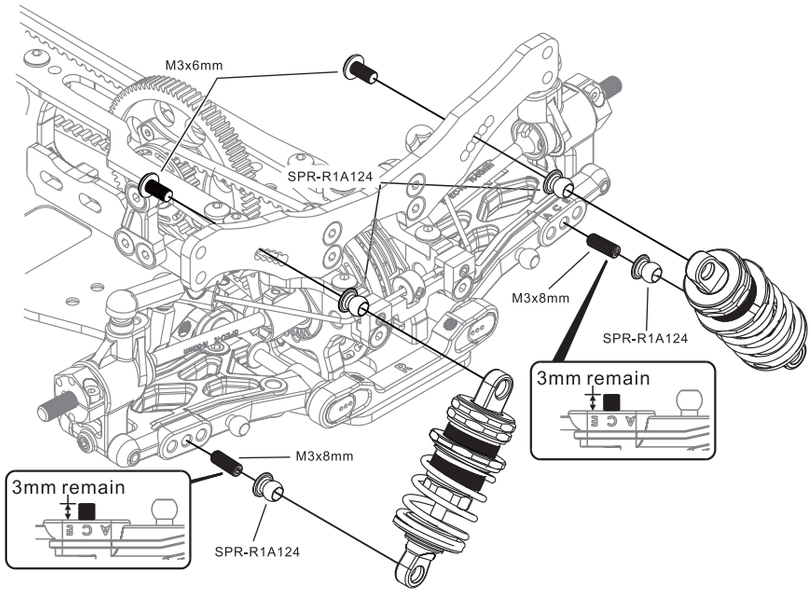
Set Screw M3x8mm



x4

Ball Universal 4.7mm

29 Rear Shock Installation



E Bag + L Bag

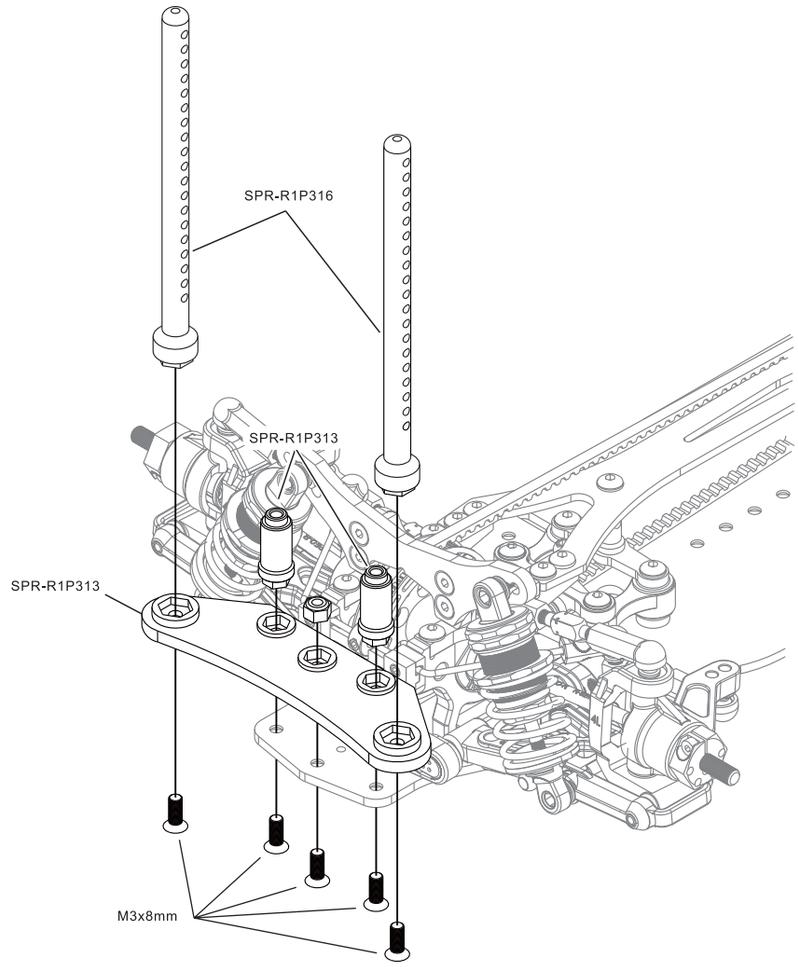
x5

Flat Head Screw M3x8mm

x1

Lock Nut M3

30 Front Body Mount Installation

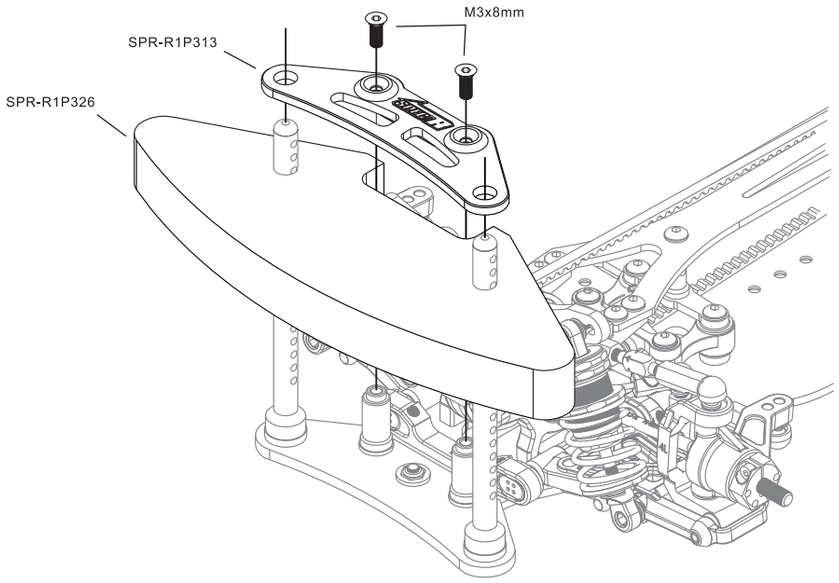


L Bag

x2

Flat Head Screw M3x8mm

31 Bumper Installation



E Bag + H Bag

L Bag

x2

Button Head Screw M3x8mm

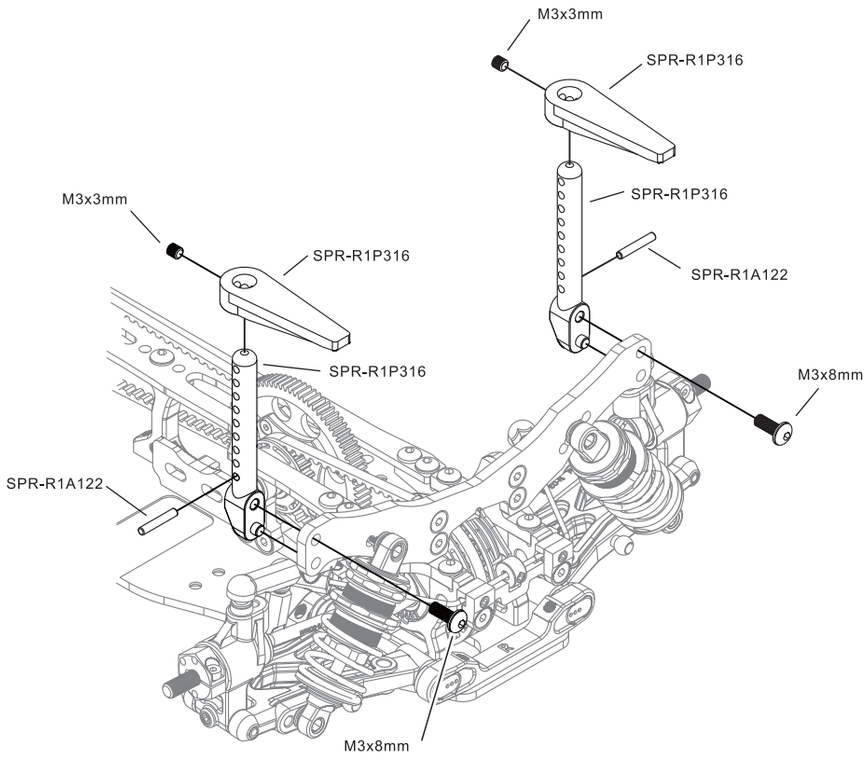
x2

Set Screw M3x3mm

x2

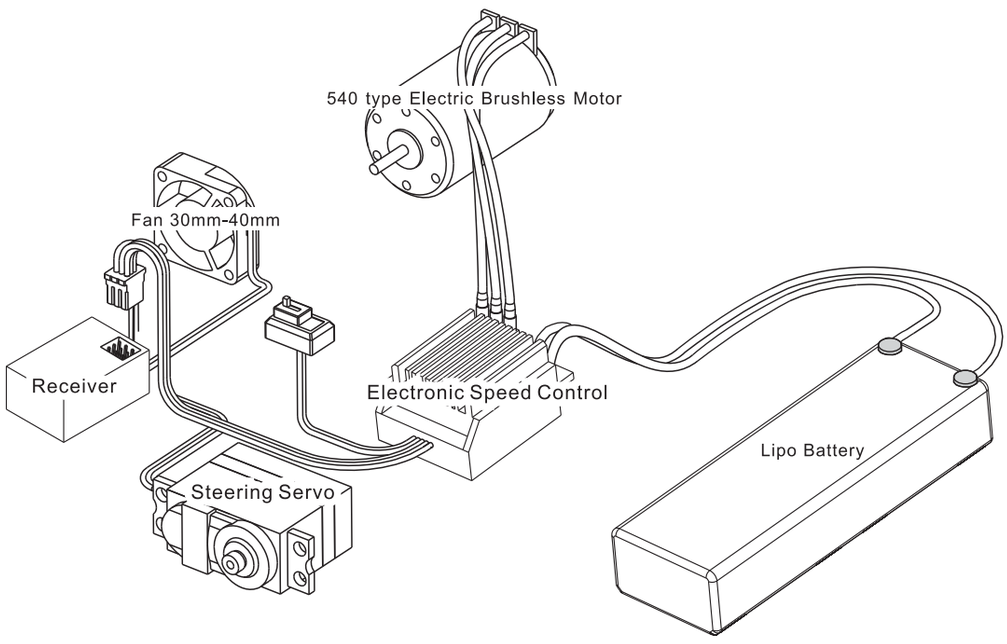
Pin 2x10mm

32 Rear Body Mount Installation



33 Radio Connections

! All electronics shown are not included



C Bag + E Bag

G Bag + L Bag

x1

Button Head Screw M3x12mm

x1

Flat Head Screw M3x8mm

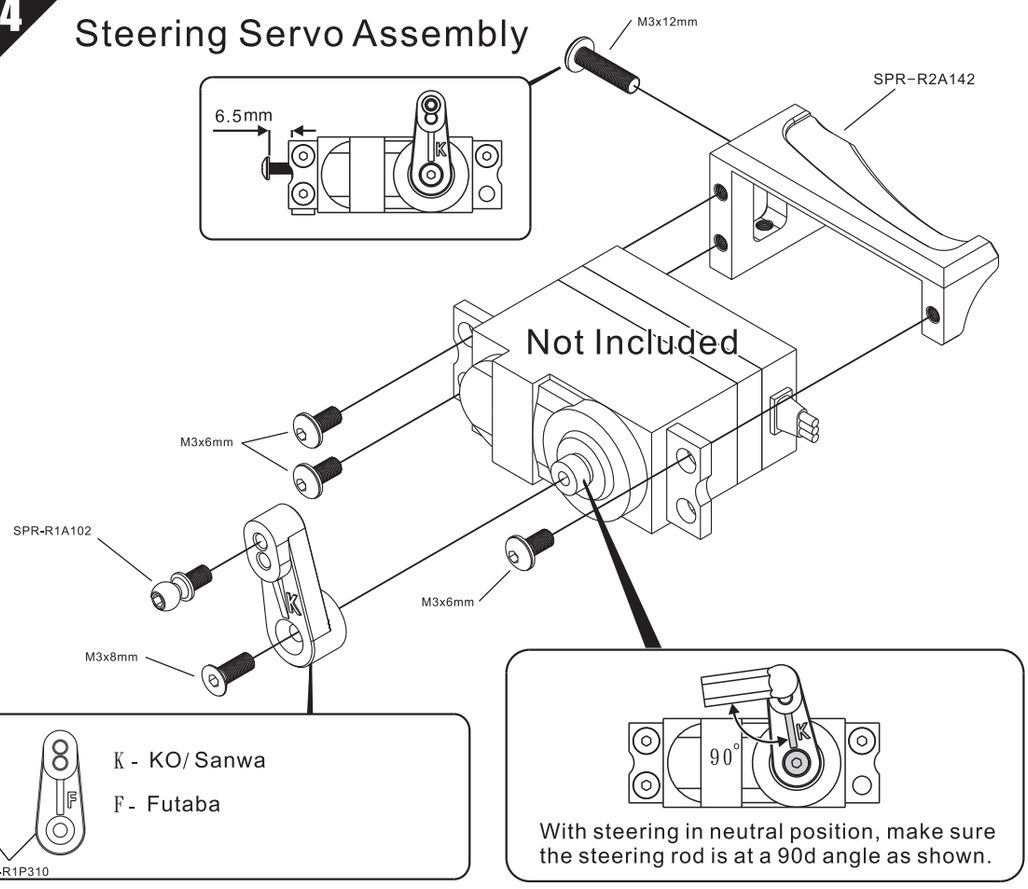
x 3

Button Head Screw M3x6

x1

Alu. Ball Stud 4.7x5mm (2mm Socket)

34 Steering Servo Assembly

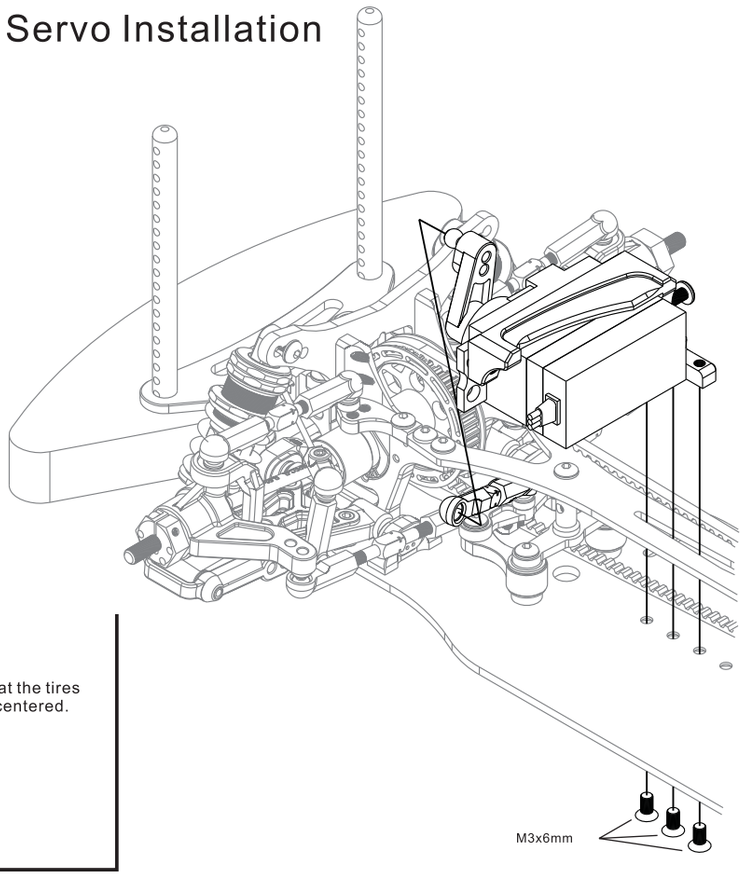


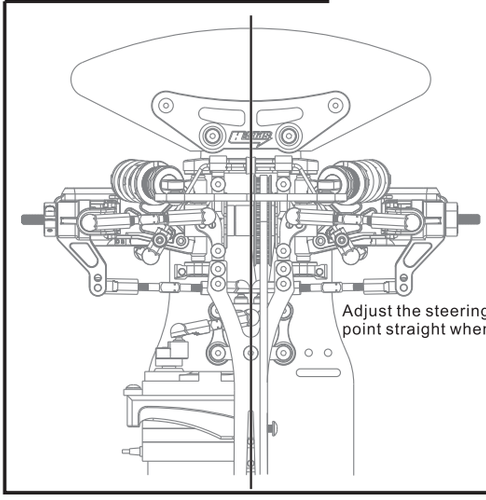
L Bag

x 3

Flat Head Screw M3x6mm

35 Steering Servo Installation





E Bag + L Bag

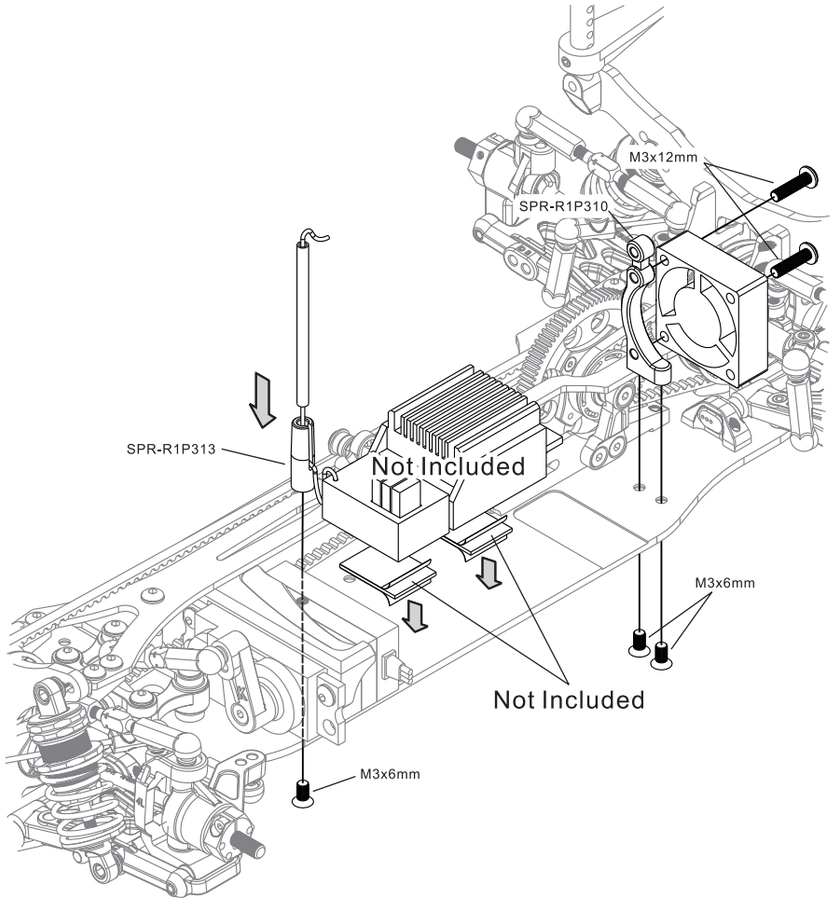
36 R/C Unit Installation

x2

Button Head Screw M3x12mm

x3

Flat Head Screw M3x6mm



L Bag

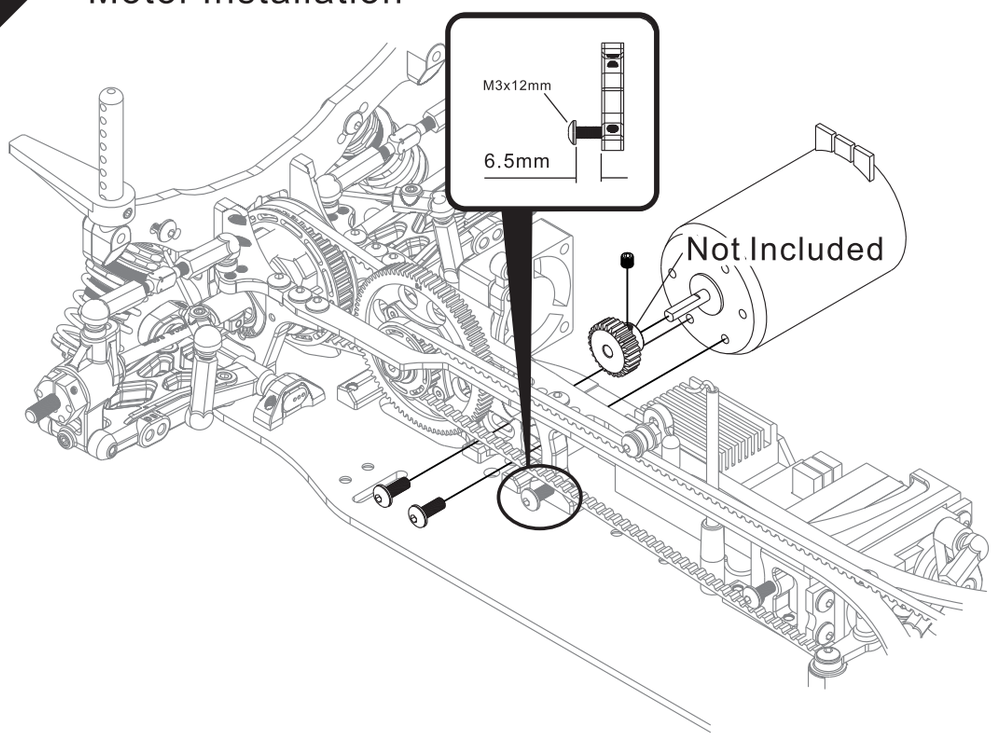
37 Motor Installation

x1

Button Head Screw M3x12mm

x2

Button Head Screw M3x8mm



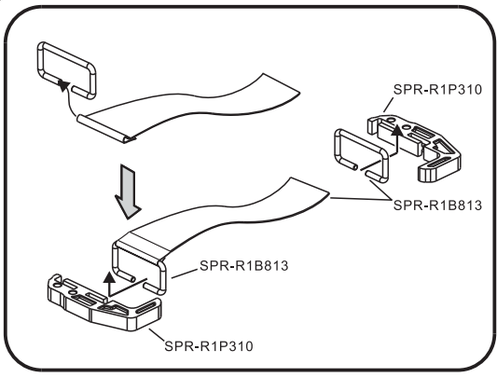
E Bag + H Bag

L Bag

x4

Flat Head Screw M3x8mm

38 Battery Holder Installation

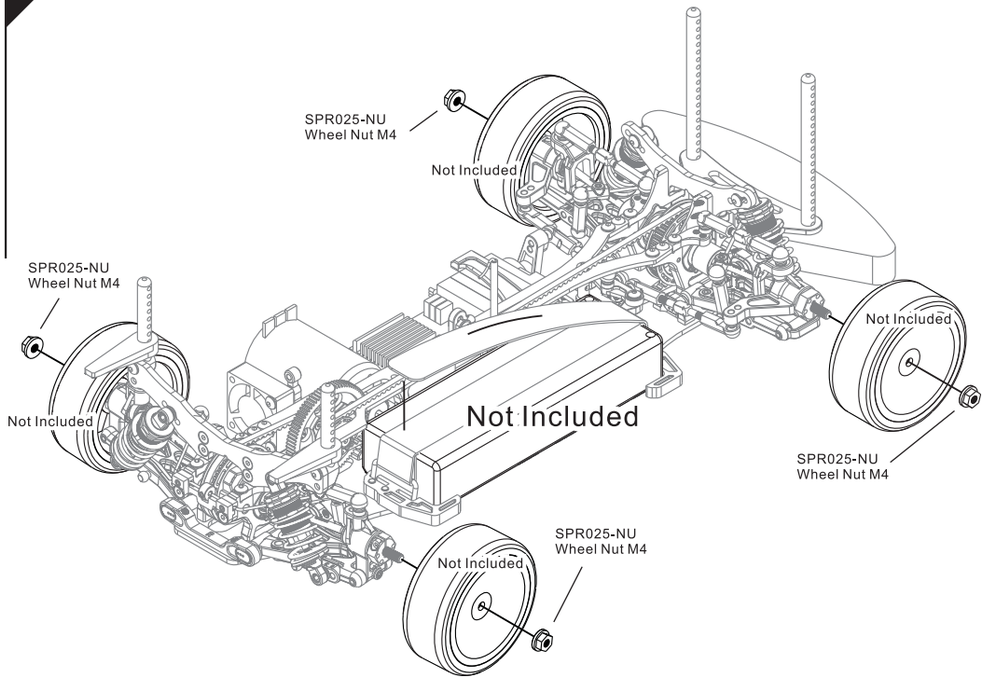


L Bag

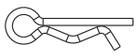
x4

Wheel Nut M4

39 Battery Installation



L
Bag



x8

Body Clip

40 Body Installation

Gear Ratio

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

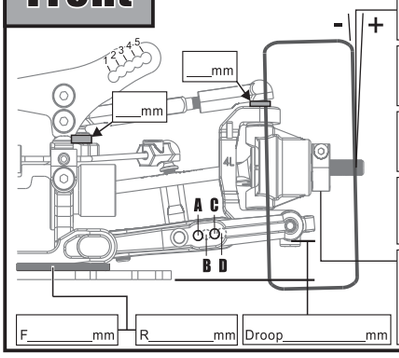
Gear Ratio		Spur Gear										
		79T	80T	81T	82T	83T	84T	85T	86T	87T	88T	89T
Pinion Gear	13T	11.55	11.69	11.84	11.98	12.13	12.28	12.42	12.57	12.72	12.86	13.01
	14T	10.72	10.86	10.99	11.13	11.26	11.4	11.54	11.67	11.81	11.94	12.08
	15T	10.01	10.13	10.26	10.39	10.51	10.64	10.77	10.89	11.02	11.15	11.27
	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:_____.

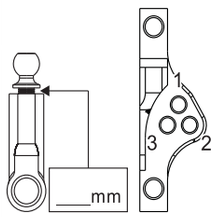
Front



- Camber Angle +/-_____°
- Caster Angle _____°
- Ride Height _____mm
- Sway Bar Ø_____mm
- Wheel Hubs _____mm
- Spacer _____mm

Front Diff ☐ Gear ☐ Spool

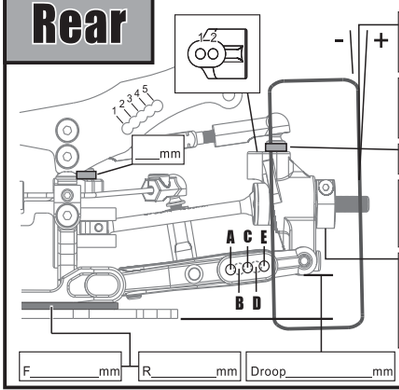
Diff Oil # _____.



Shocks

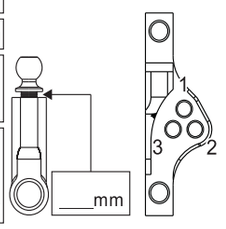
- Shock Oil #_____.
- Piston 1.1 / 1.2 _____
- O-ring _____.
- Rebound _____.
- Spring _____.
- Length _____mm

Rear



- Camber Angle +/-_____°
- Ride Height _____mm
- Shim _____mm
- Sway Bar Ø_____mm
- Wheel Hubs _____mm
- Spacer _____mm

Rear Diff Oil # _____.

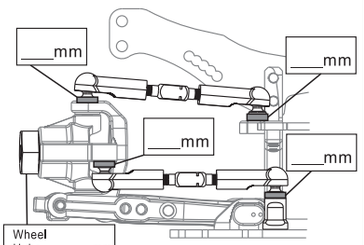


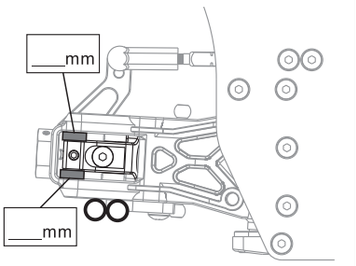
Shocks

- Shock Oil #_____.
- Piston 1.1 / 1.2 _____
- O-ring _____.
- Rebound _____.
- Spring _____.
- Length _____mm

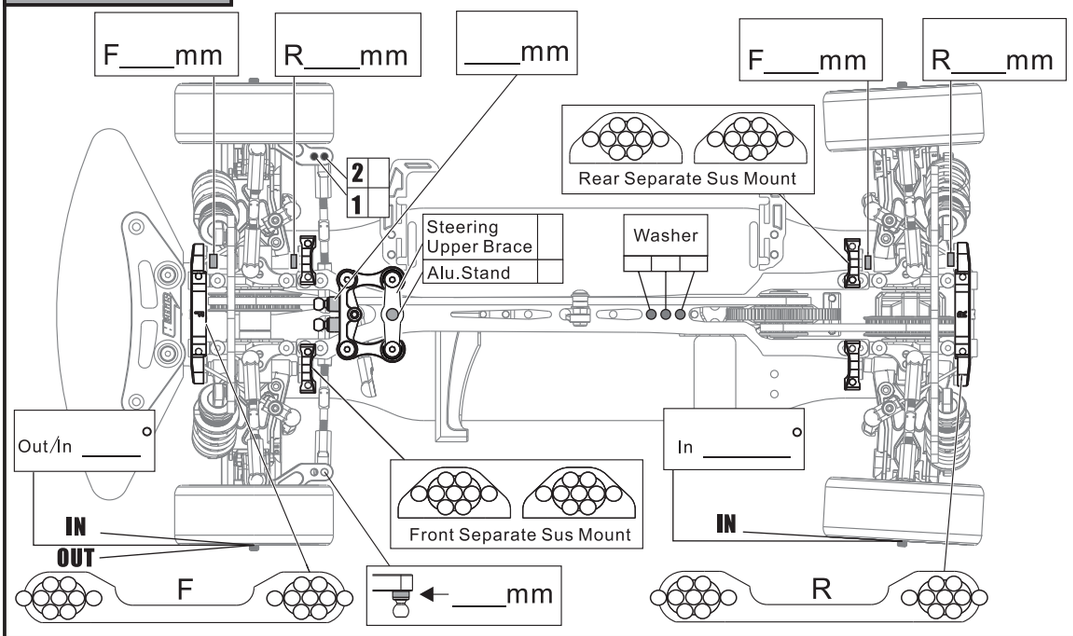
A.R.T.SYSTEM

Active Rear Toe System





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: _____

Ver.2.0