



ST1

1/10 EP TOURING CAR KIT

REMAKER

Atsushi Hara

A special kit for an R/C legend.

Throughout 2025 we've had the opportunity to work alongside the legendary Japanese Ace, Atsushi Hara.

A 2 time IFMAR World Champion with more race wins to his name than almost any other driver on the planet, in a multitude of classes. Atsushi not only encompasses incredible performances, but is also known for being one of the friendliest and humble racers off the track.

Known for his love for the colour purple, we have created a slice of history with an SP1 HARA EDITION, a Purple anodized kit dedicated to him and his legacy.

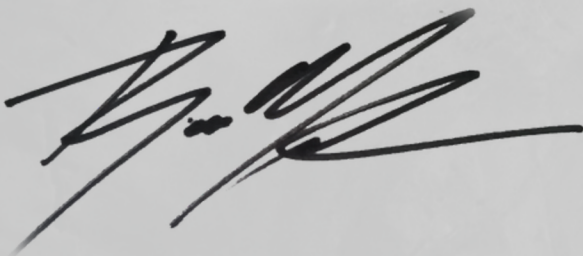
There is and will only ever be 100 SP1 HARA Editions in existence, and owning one of these cars captures a profound moment in history, where the first ever Australian designed Touring Car, the SP1, was driven and endorsed by the legendary, Atsushi Hara.

This kit also includes the most common option parts used by Atsushi on his SP1 at TITC and ETS Apeldoorn 2025! We've also added a complete Anti-Roll Bar and Shock Spring Set!

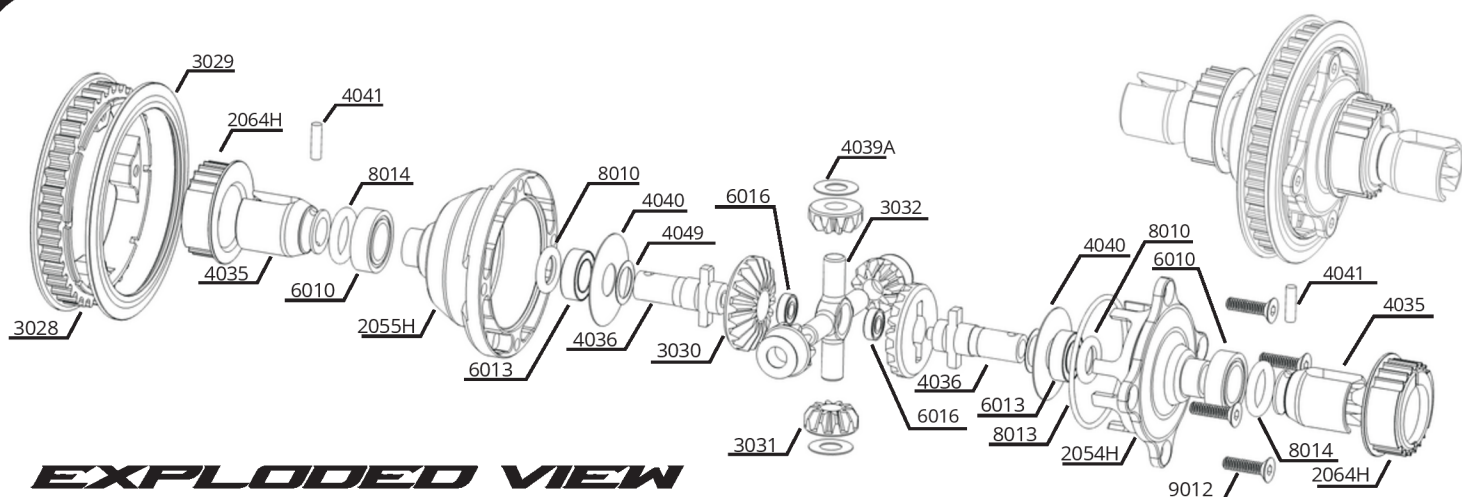
It was a pleasure putting this kit together, and we sincerely hope you enjoy this timeless piece of history, whether it's on the shelf or on the track!

Thankyou Atsushi!

**RYAN MAKER
DESIGNER**



STEP 1 - GEAR DIFF



BAG A PARTS LIST

SKU	Description	QTY
2026H	Spool Housing	1
2054H	Diff Housing 1	1
2055H	Diff Housing 2	1
2064H	Diff/Spool Eccentric	4
3028	38 Tooth Spool/Diff Pulley	2
3029	38 Tooth Spool/Diff Pulley Side	2
3030	Internal Diff Gear Large	2
3031	Internal Diff Gear Small	4
3032	Diff Cross Pin	1
4021	1.6 x 6mm Diff Outdrive Pin	2
4034	Spool Outdrive	2
4035	Diff Outdrive	2
4036	Diff Output Shaft	2
4039A	Diff Satellite Gear Shim 0.3mm	4
4040	Diff Main Gear Shim	2
4049	5x7x0.1mm Stainless Steel Shim	2
6010	6x10x3mm Metal Shield Bearing	4
6013	5x8x2.5mm Metal Shield Bearing	2
6016	2x5x1.5mm Metal Shield Bearing	2
8010	Diff Outdrive Internal O-Ring	2
8013	Diff Housing O-Ring	1
8014	Diff Outdrive Pin Retainer O-Ring	2
9011	M2 x 5mm Button Screw	4
9012	M2 x 8mm Flat Head Screw	4
9026	M3 x 10mm Flat Head Screw	2

STEP 1.1

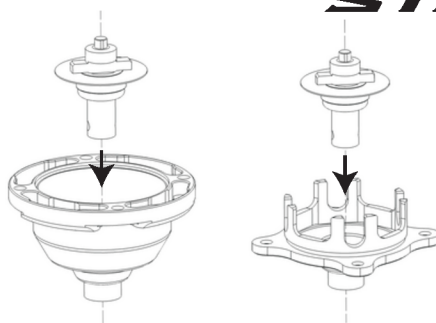
MAKE 2

Note: 8010 Silicon O-Ring is Clear in colour, be sure not to use 8014 Black NBR O-Ring

Add O-Ring Grease

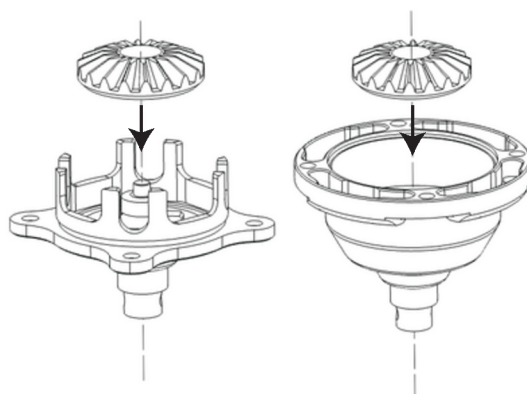
1. Add O-Ring Grease to 8010 O-ring
2. Install 4049 shim, followed by 4040 Shim, 6013 Bearing and 8010 O-ring onto 4036 shaft
3. Make 2 of this assembly

STEP 1.2



1. Install assembled output shafts into diff halves
2. Push down and rotate to ensure free movement and correct seating

STEP 1.3



1. Insert large diff gear and locate onto cross pin
2. Repeat for both diff halves

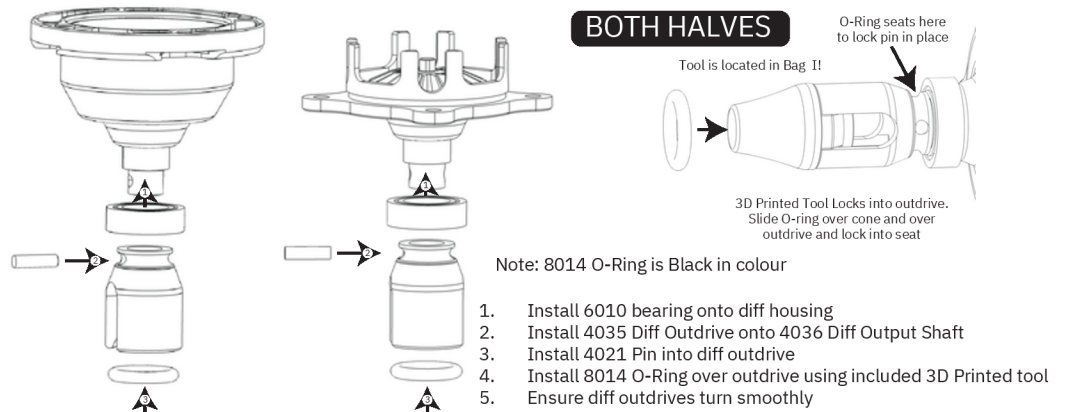
STEP 1 - GEAR DIFF

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4035	Diff Outdrive	2
4036	Diff Output Shaft	2
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4040	Diff Main Gear Shim	2
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9011	M2 x 5mm Button Screw	4
9012	M2 x 8mm Flat Head Screw	4
9026	M3 x 10mm Flat Head Screw	2

STEP 1.4

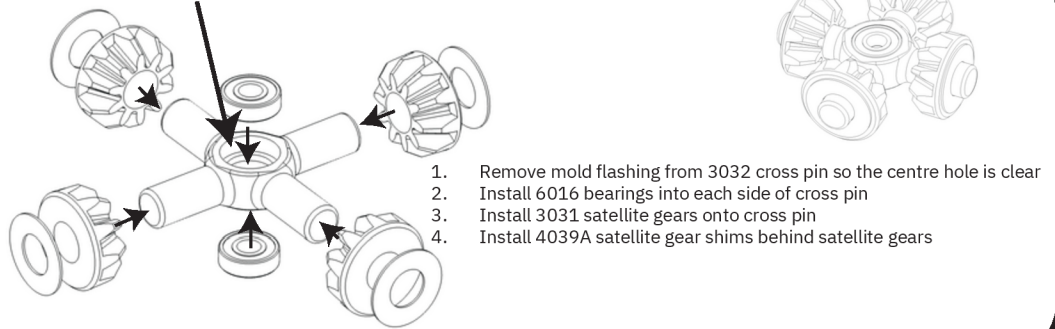
BOTH HALVES



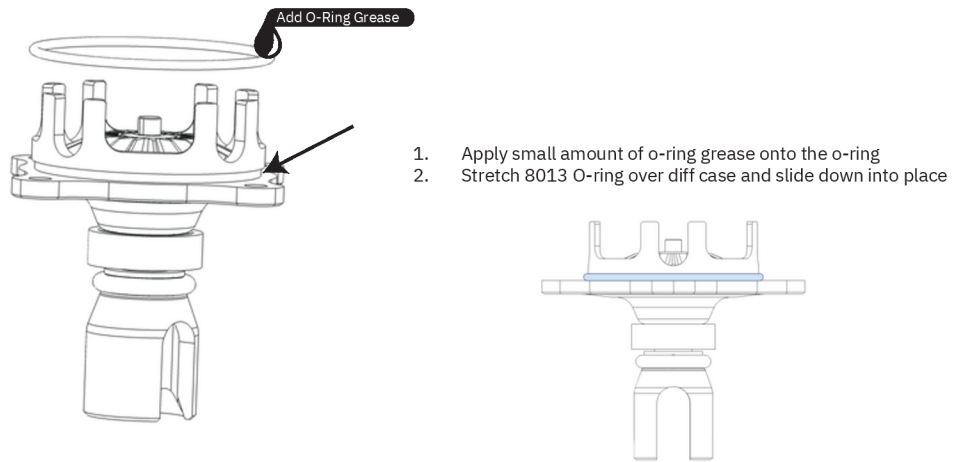
IMPORTANT!

Remove mold flashing in here!

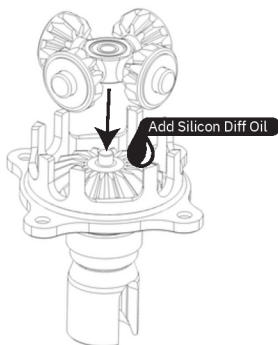
STEP 1.5



STEP 1.6

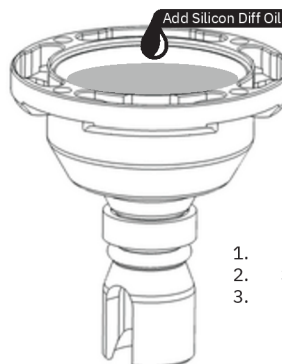


STEP 1.7



STEP 1.8

1.30 GRAMS



Initial Setting

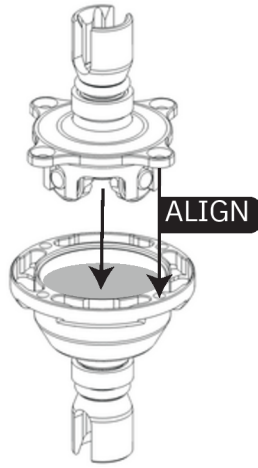
21.5T: 3K Low Grip, 5K High Grip
13.5T: 4K Low Grip, 6K High Grip
MOD: 5K Low Grip, 9K High Grip

STEP 1 - GEAR DIFF

BAG A PARTS LIST

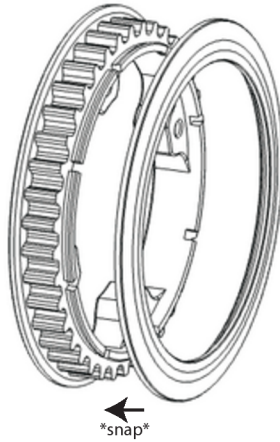
SKU	Description	QTY
2026H	Spool Housing	1
2054H	Diff Housing 1	1
2055H	Diff Housing 2	1
2064H	Diff/Spool Eccentric	4
3028	38 Tooth Spool/Diff Pulley	2
3029	38 Tooth Spool/Diff Pulley Side	2
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3031	Internal Diff Gear Small	4
3032	Diff Cross Pin	1
4021	1.6 x 6mm Diff Outdrive Pin	2
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4049	5x7x0.1mm Stainless Steel Shim	2
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6016	2x5x1.5mm Metal Shield Bearing	2
8010	Diff Outdrive Internal O-Ring	2
8013	Diff Housing O-Ring	1
8014	Diff Outdrive Pin Retainer O-Ring	2
9011	M2 x 5mm Button Screw	4
9012	M2 x 8mm Flat Head Screw	4
9026	M3 x 10mm Flat Head Screw	2

STEP 1.8



1. Install small diff half into oil filled large diff half ensuring satellite gears stay in place
2. Lightly rotate the smaller half backwards and forwards to interlock halves
3. Push diff half down so it's fully seated and align screw holes

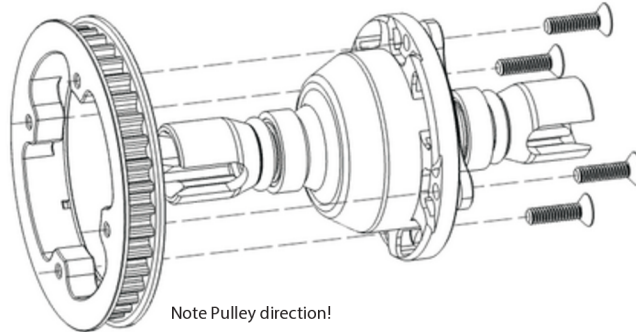
STEP 1.9



Note orientation of pulley side!

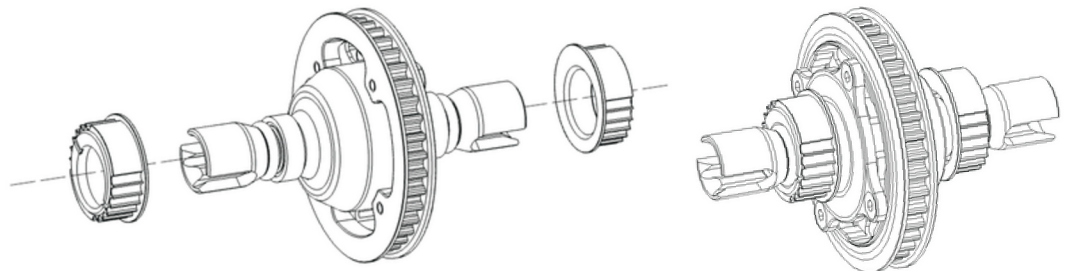
1. Snap pulley side onto main pulley

STEP 1.10



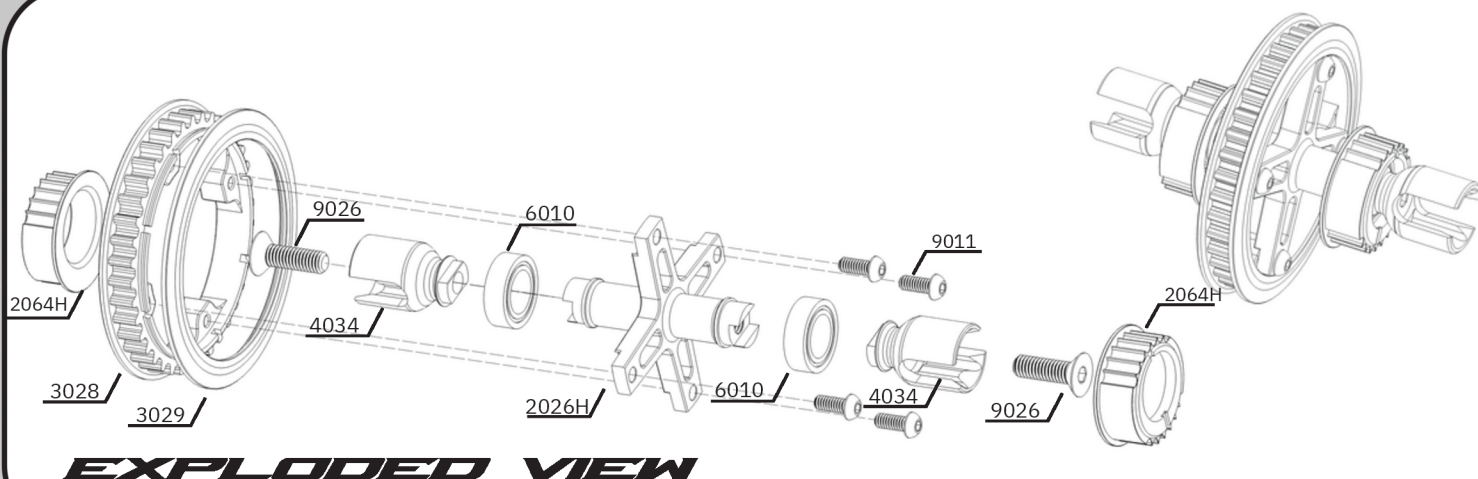
1. Locate 3029/3028 diff pulley into housing in correct orientation (pulley side facing the diff)
2. Use 9012 screws to attach pulley to diff and seal diff halves together
3. Tighten screws firmly in a cross pattern to seat and seal the assembly
4. Ensure smooth diff action

STEP 1.11



1. Install 2064H eccentrics on to 6010 bearings on each side of the diff
2. Put diff assembly aside for installation in later steps

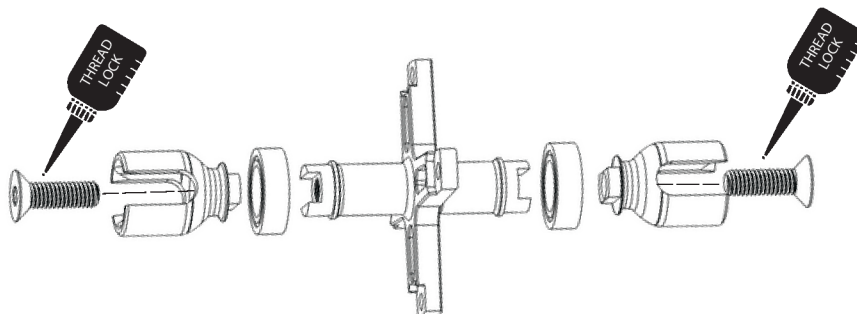
STEP 2 - SPOOL



BAG A PARTS LIST

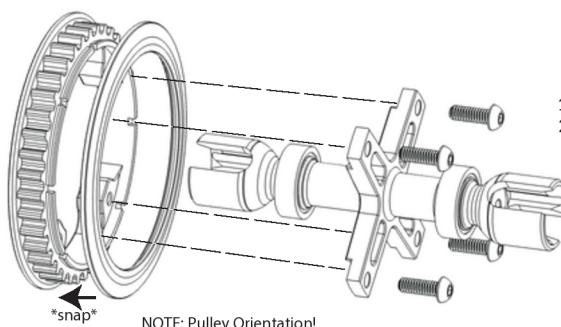
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2026H	Spool Housing	1
2054H	Diff Housing 1	1
2055H	Diff Housing 2	1
2064H	Diff/Spool Eccentric	4
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4036	Diff Output Shaft	2
4039A	Diff Satellite Gear Shim	4
4040	Diff Main Gear Shim	2
4049	5x7x0.1mm Stainless Steel Shim	2
6010	6x10x3mm Metal Shield Bearing	4
6013	5x8x2.5mm Metal Shield Bearing	2
6016	2x5x1.5mm Metal Shield Bearing	2
8010	Diff Outdrive Internal O-Ring	2
8013	Diff Housing O-Ring	1
8014	Diff Outdrive Pin Retainer O-Ring	2
9011	M2 x 5mm Button Screw	4
9012	M2 x 8mm Flat Head Screw	4
9026	M3 x 10mm Flat Head Screw	2

STEP 2.1



1. Install 6010 Bearings onto 2026H Spool Housing
2. Press 4034 Steel Outdrives into spool housing
3. Apply medium strength thread lock to 9026 Screws and tighten lightly
4. Use driver through opposite outdrive slot to hold while tightening , tighten very firmly!

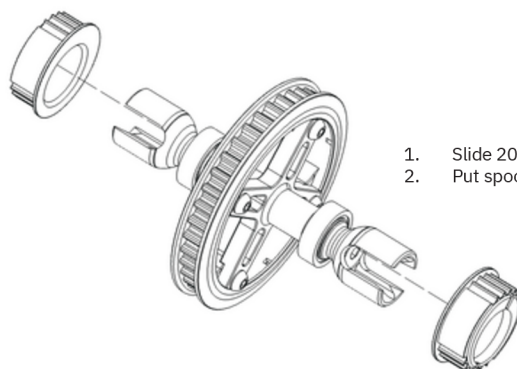
STEP 2.2



1. Snap fit 2039 pulley side onto 3028 pulley
2. Install and tighten 9011 Screws to attach pulley to spool housing

NOTE: Pulley Orientation!

STEP 2.3



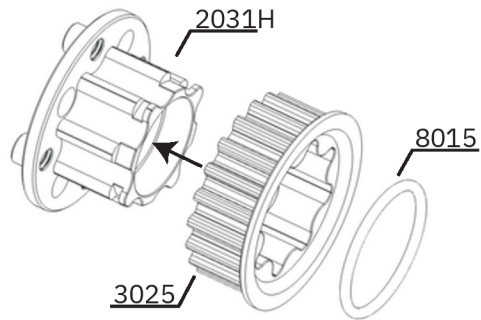
1. Slide 2064H eccentrics over outdrives and on to bearings
2. Put spool assembly aside for later installation

STEP 3 - LAYSHAFT & DRIVESHAFTS

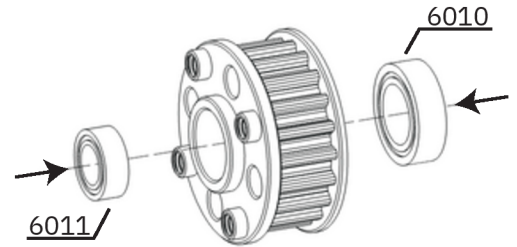
BAG B PARTS LIST

SKU	Description	QTY
2010H	Aluminium Motor Mount	1
2031H	Centre Layshaft Pulley Housing	1
3025	Centre Layshaft Pulley	1
4010	Front Driveshaft	2
4011	Rear Driveshaft	2
4012A	Front Axle	2
4013A	Rear Axle	2
4014	Front Driveshaft Coupling	2
4015	Front Driveshaft Stud	4
4016	Rear Driveshaft Stud	2
4017	1.6x9mm Front Driveshaft Pin	4
4018	2.0mm Rear Driveshaft Pin	2
4019	Front Driveshaft Spring Clip	5
4020A	Inner Driveshaft Coupler	4
4021	1.6 x 6mm Inner Driveshaft Coupler Pin	4
4048	M1.2 Driveshaft e-Clips	20
6010	6x10x3mm Metal Shield Bearing	1
6011	4x7x2.5mm Metal Shield Bearing	1
6015	1.5x4x2mm Metal Shield Bearing	8
8015	Layshaft Pulley O-Ring	1
9015	M2.5 x 8mm Button Head Screw	1
9027	M3 x 3mm Grub Screw	2

STEP 3.1

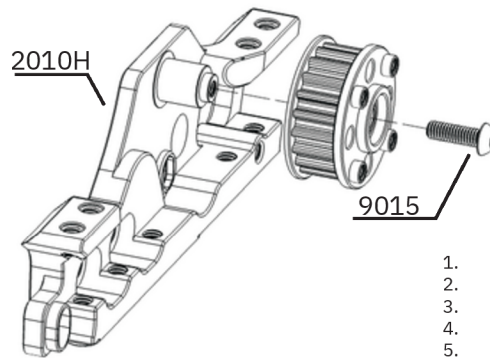


1. Slide 3025 pulley on to 2031H pulley housing
2. Stretch 8015 o-ring over pulley housing lugs until the o-ring is in place and secures pulley



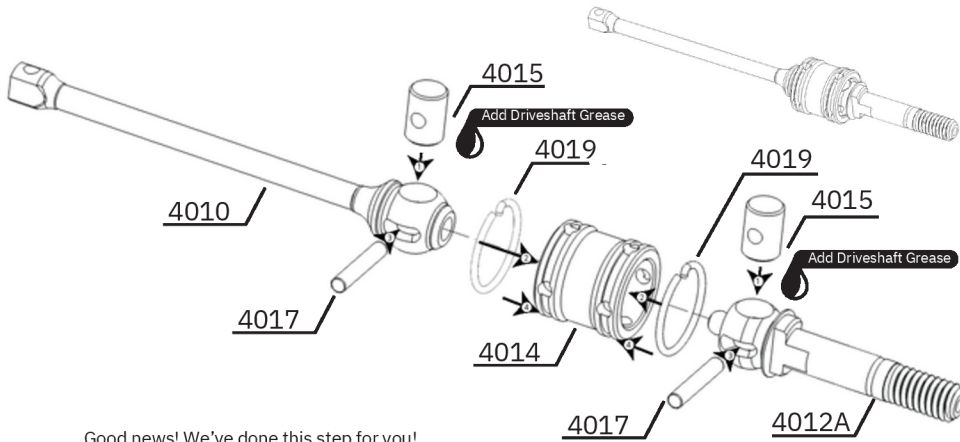
1. Push 6010 Bearing into layshaft housing firmly from behind
2. Push 6011 Bearing into layshaft housing

STEP 3.2



1. Slide Layshaft assembly onto motormount and seat firmly
2. Tighten 9015 Button Head Screw to fix layshaft in place
3. Push/pull firmly on layshaft to ensure bearings are seated
4. Ensure layshaft is spinning freely
5. Put assembly to the side to install on chassis later

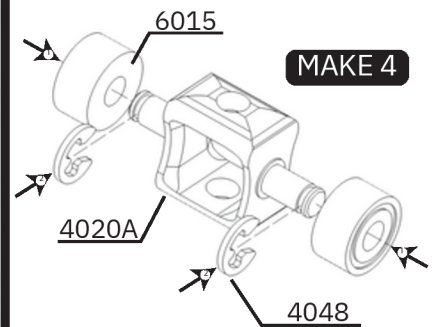
STEP 3.3



Good news! We've done this step for you!

STEP 3.4

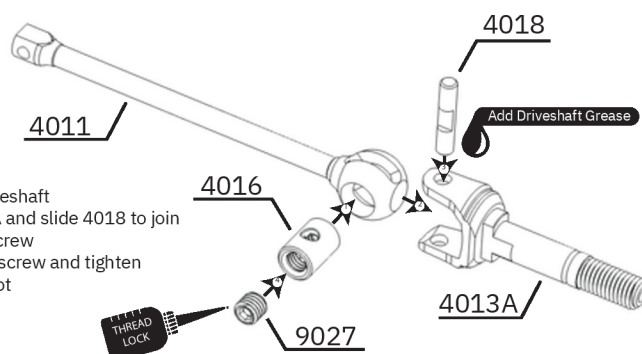
Note: These couplers are pre-fitted to the driveshafts for perfect tolerance. The bearings are also pre-attached to the coupler.



We've also done this step for you!

STEP 3.5

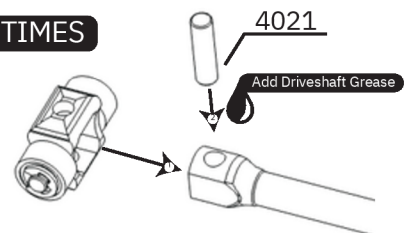
MAKE 2



1. Install 4016 stud into 4011 driveshaft
2. Insert 4011/4016 inside 4013A and slide 4018 to join
3. Align 4018 flat spot with grub screw
4. Apply thread lock to 9027 grub screw and tighten inside 4016 onto 4018's flat spot

STEP 3.6

4 TIMES



And this one!

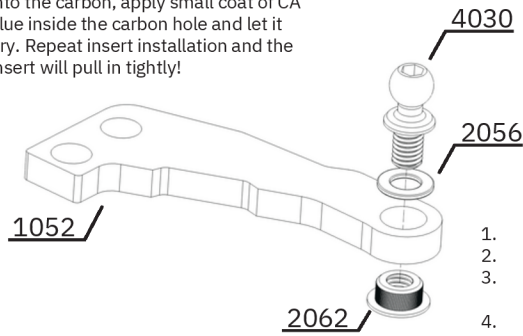
STEP 4 - HUBS

BAG C PARTS LIST

SKU	Description	QTY
1014	Rear Steering Arms	2
1052	-2mm Front Steering Arms	2
2014H	Wheel Hub	4
2034H	4.0mm Wheel Hex	4
2056	3x5.5x0.5mm Shim	6
2057	3x5.5x1.0mm Shim	6
2062	M3 Threaded Insert	4
3040	Nylon Hex Washer	4
4026	4.8mm Upper Hub Ball Stud	4
4027	5.0mm Male Lower Hub Ball Stud	4
4030	4.3x10.3mm Mall Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	2
4046	6x8x0.05mm Stainless Steel Shim	6
4050	6x8x0.1mm Stainless Steel Shim	5
6010	6x10x3mm Metal Shield Bearing	8
9010	M2x6mm Cap Head Screw	4
9030	M3x4mm Low Profile Button Head Screw	4

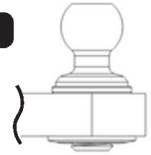
Note: If 2062 inserts aren't a secure fit into the carbon, apply small coat of CA glue inside the carbon hole and let it dry. Repeat insert installation and the insert will pull in tightly!

STEP 4.1



MAKE 1L & 1R

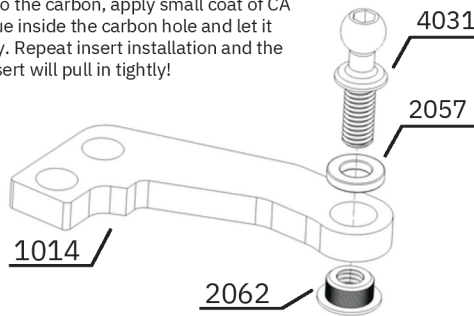
View after installation



1. Push 2062 lightly into the 4.5mm hole of 1052
2. Screw 4030 with 2056 underneath, into 2062
3. Screw 4030 to pull 2062 into the arm and tighten
4. Make a LEFT and RIGHT mirrored pair

Note: If 2062 inserts aren't a secure fit into the carbon, apply small coat of CA glue inside the carbon hole and let it dry. Repeat insert installation and the insert will pull in tightly!

STEP 4.2



MAKE 1L & 1R

View after installation



1. Push 2062 lightly into the 4.5mm hole of 1014
2. Screw 4031 with 2057 underneath, into 2062
3. Screw 4031 to pull 2062 into the arm and tighten
4. Make a LEFT and RIGHT mirrored pair

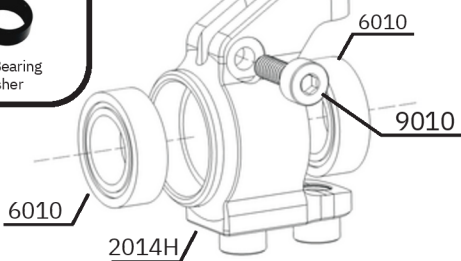
STEP 4.3

OPTION PART



2041 - Hub Bearing Crush Washer

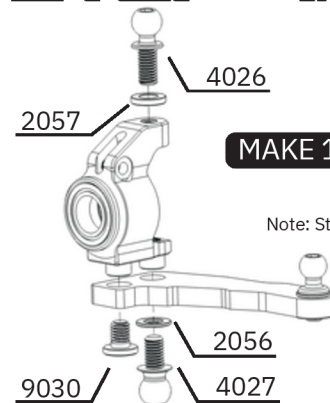
MAKE 4



1. Press a 6x10x3 Bearing into each side of the 2014 hub
2. Insert and tighten 9010 Hub Screw Repeat for all 4 hubs

Note: 9010 is optional and not mandatory. Using 9010 will stiffen the hub.

STEP 4.4

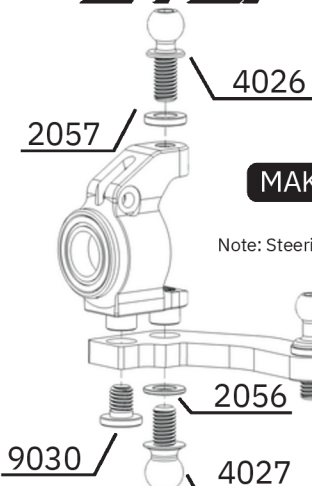


MAKE 1L & 1R

Note: Steering Arm Orientation

1. Complete using front steering arms from Step 4.1
2. Screw in 4026 & 4027 Ball Studs with correct shims
3. Screw in 9030 Screws
4. Make 1 LEFT and 1 RIGHT hub assembly

STEP 4.5



MAKE 1L & 1R

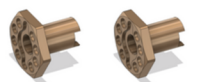
Note: Steering Arm Orientation

1. Complete using rear steering arms from Step 4.2
2. Screw in 4026 & 4027 Ball Studs with correct shims
3. Screw in 9030 Screws
4. Make 1 LEFT and 1 RIGHT hub assembly

STEP 4.6

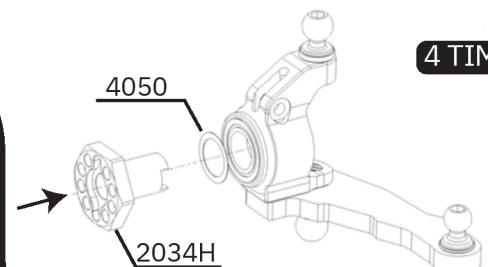
1. Insert 1x 4050 Shim onto 2034 wheel hex
2. Slide 2034 Wheel Hex into 6010 bearings in hub
3. Repeat for all 4 wheel hubs (2 Front & 2 Rear) and put aside
4. Additional shims are provided for removing play if necessary.
 - If you opt for more shims than suggested in the manual, ensure you tighten the wheel onto the hub to make sure the hex is still free under load!

OPTION PART



2034-1 - 3.5mm Wheel Hex

4 TIMES

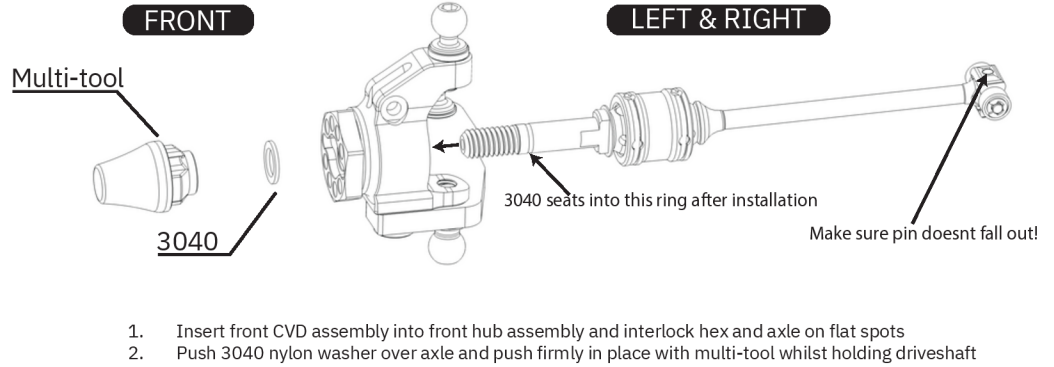


STEP 4 - HUBS

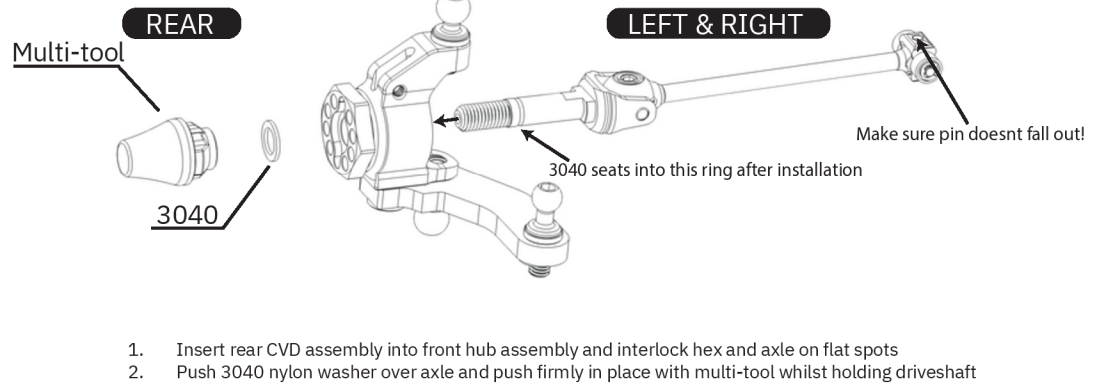
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2057	3x5.5x1.0mm Shim	6
2062	M3 Threaded Insert	4
3040	Nylon Hex Washer	4
4026	4.8mm Upper Hub Ball Stud	4
4027	5.0mm Male Lower Hub Ball Stud	4
4030	4.3x10.3mm Mall Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	2
4046	6x8x0.05mm Stainless Steel Shim	6
4050	6x8x0.1mm Stainless Steel Shim	5
6010	6x10x3mm Metal Shield Bearing	8
9010	M2x6mm Cap Head Screw	4
9030	M3x4mm Low Profile Button Head Screw	4

STEP 4.7



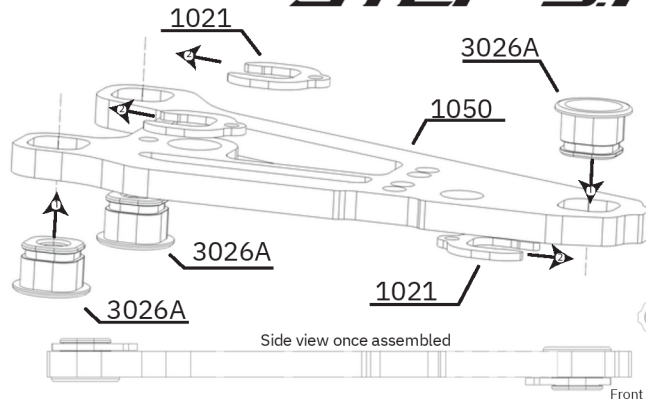
STEP 4.8



SKU	Description	QTY
2042H	2.0mm Alu Chassis	1
1012	Rear Suspension Arm	2
1019	2.2mm Carbon Front Topdeck	1
1020	2.2mm Carbon Rear Topdeck	1
1021	Suspension Arm Clips	12
1029	0.5x7.5mm Carbon Shim	2
1050	-2mm Front Suspension Arm	2
1051	-2mm Front Upper Bulkhead L/R	2
1053	Rear Left Upper Bulkhead (Split)	1
1054	Rear Right Upper Bulkhead (Split)	1
2017H	Outer Shock Attachment	4
2028	4.3x11.8mm Ballstud	4
2035H	Upper Bulkhead Inserts 1 Dot	8
2057	3x5.5x1.0mm Shim	6
2058	3x5.5x2.0mm Shim	4
2059	3x8x0.5mm Shim	4
2060	3x8x1mm Shim	8
2062	M3 Threaded Insert	4
2066H	Front Left Bulkhead (V2)	1
2067H	Front Right Bulkhead (V2)	1
2068H	Rear Left Bulkhead (V2)	1
2069H	Rear Right Bulkhead (V2)	1
3010	Droop Screw Inserts	4
3026A	5.0mm Lower Arm Ball Cup	16
4028	4.8mm Female Upper Ball	8
4029	5.0mm Female Lower Ball	8
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	4
4038	Centre Tensioner Sleeve	2
4043	Topdeck Motormount Screw	2
4044	4x6x0.2mm Stainless Steel Shim	2
4045	4x6x0.5mm Stainless Steel Shim	5
5012	Front Centre Weight (13g)	1
5013	Rear Centre Weight (19g)	1
6011	4x7x2.5mm Metal Shield Bearing	3
7013	Bando 351 Drive Belt	2
9011	M2x5mm Button Head Screw	4
9014	M2.5x5mm Button Head Screw	12
9018	M3x6mm Button Head Screw	17
9019	M3x8mm Button Head Screw	9
9024	M3x6mm Flat Head Screw	20
9028	M3x8mm Grub Screw	4
9029	M4x8mm Grub Screw	4

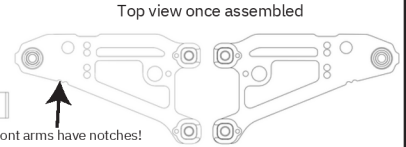
STEP 5.1

NOTE: We suggest popping balls into 3026A whilst they are inside the arm. The 3026A are made from a brittle delrin material and can crack without support from the arm around it.

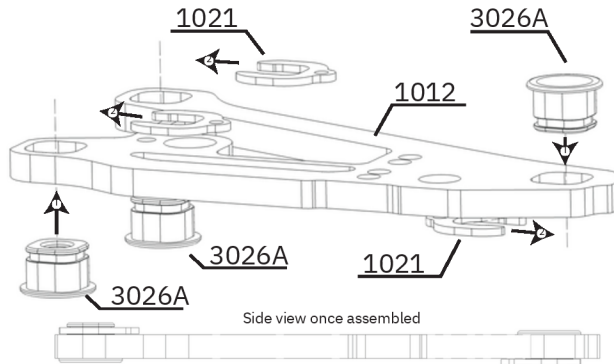


MAKE 1L & 1R

1. Slide 3026A Ball Cups into 1050 Front Arm with outer arm ball cup installed from the opposite side
2. Install 1021 Arm Clips on 3026A Ball Cups as shown and ensure they're seated firmly Repeat steps
3. 1 and 2 to make a mirrored copy, 1 LEFT and 1 RIGHT

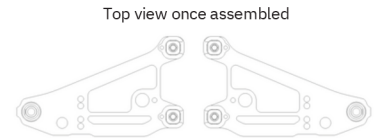


STEP 5.2

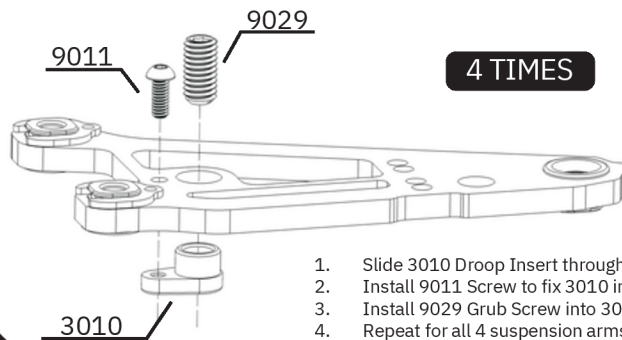


MAKE 1L & 1R

1. Slide 3026A Ball cups into 1012 Rear Arm with outer arm ball cup installed from the opposite side
2. Install 1021 Arm Clips on 3026A Ball Cups as shown and ensure they're seated firmly Repeat steps
3. 1 and 2 to make a mirrored copy, 1 LEFT and 1 RIGHT



STEP 5.3

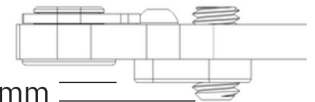


4 TIMES

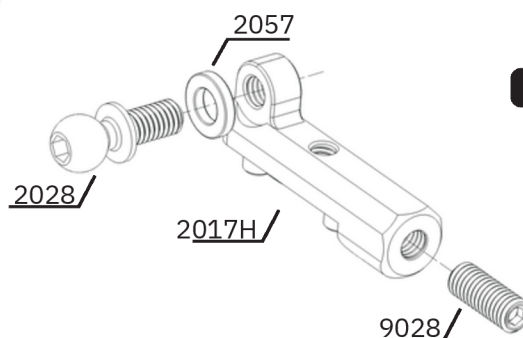
Droop Screw Installation

~1.5mm

1. Slide 3010 Droop Insert through the arm from underneath
2. Install 9011 Screw to fix 3010 in place.
3. Install 9029 Grub Screw into 3010 with around 1.5mm protruding
4. Repeat for all 4 suspension arms

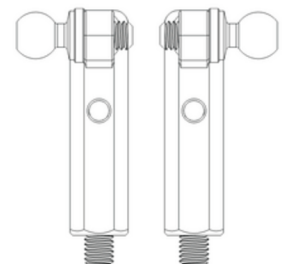


STEP 5.4



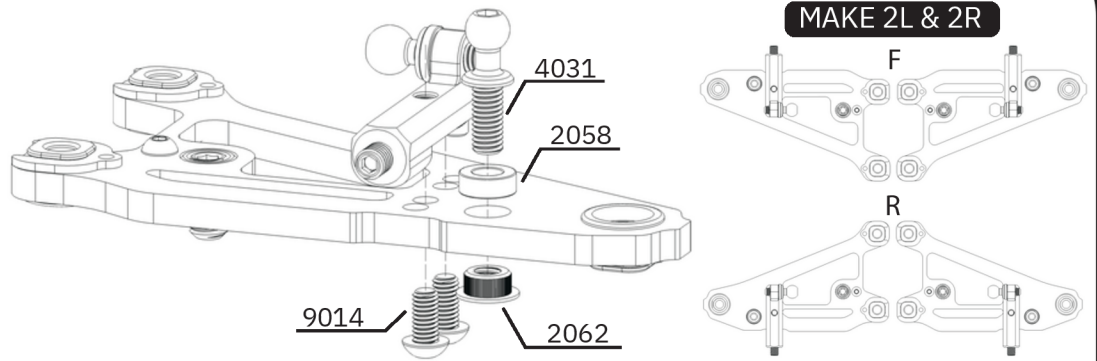
MAKE 2L & 2R

1. Screw 2028 Ball Stud into 2017H with 2057 shim
2. Install 9028 grub screw into all 4 and tighten
3. Make 2 left and 2 right mirrored assemblies



SKU	Description	QTY
2042H	2.0mm Alu Chassis	1
1012	Rear Suspension Arm	2
1019	2.2mm Carbon Front Topdeck	1
1020	2.2mm Carbon Rear Topdeck	1
1021	Suspension Arm Clips	12
1029	0.5x7.5mm Carbon Shim	2
1050	-2mm Front Suspension Arm	2
1051	-2mm Front Upper Bulkhead L/R	2
1053	Rear Left Upper Bulkhead (Split)	1
1054	Rear Right Upper Bulkhead (Split)	1
2017H	Outer Shock Attachment	4
2028	4.3x11.8mm Ballstud	4
2035H	Upper Bulkhead Inserts 1 Dot	8
2057	3x5.5x1.0mm Shim	6
2058	3x5.5x2.0mm Shim	4
2059	3x8x0.5mm Shim	4
2060	3x8x1mm Shim	8
2062	M3 Threaded Insert	4
2066H	Front Left Bulkhead (V2)	1
2067H	Front Right Bulkhead (V2)	1
2068H	Rear Left Bulkhead (V2)	1
2069H	Rear Right Bulkhead (V2)	1
3010	Droop Screw Inserts	4
3026A	5.0mm Lower Arm Ball Cup	16
4028	4.8mm Female Upper Ball	8
4029	5.0mm Female Lower Ball	8
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	4
4038	Centre Tensioner Sleeve	2
4043	Topdeck Motormount Screw	2
4044	4x6x0.2mm Stainless Steel Shim	2
4045	4x6x0.5mm Stainless Steel Shim	5
5012	Front Centre Weight (13g)	1
5013	Rear Centre Weight (19g)	1
6011	4x7x2.5mm Metal Shield Bearing	3
7013	Bando 351 Drive Belt	2
9011	M2x5mm Button Head Screw	4
9014	M2.5x5mm Button Head Screw	12
9018	M3x6mm Button Head Screw	17
9019	M3x8mm Button Head Screw	9
9024	M3x6mm Flat Head Screw	20
9028	M3x8mm Grub Screw	4
9029	M4x8mm Grub Screw	4

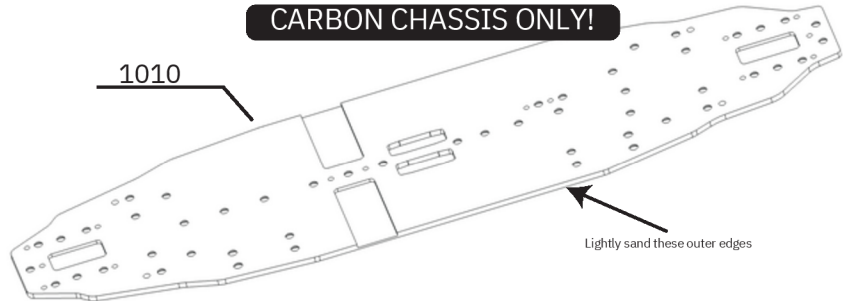
STEP 5.5



1. Push assembly from Step 5.4 into arms from above (ball stud facing inwards). Note, these can vary in tightness when pushed into the arm. All that matters is that there should be no play inside the arm to prevent tweaking under load.
2. Push assembly in until fully seated by hand and then install 9014 screws from underneath the arm and tighten
3. Ensure L & R assemblies are installed on L & R Arms in the correct orientation as in diagram above
4. Firmly push 2062 Insert from underneath the arm.
5. Install 4031 Ball stud from above the arm with 2058 underneath, and tighten 4031 to pull 2062 into the arm
6. Repeat for all 4 arms in a mirrored orientation as per diagram above

STEP 5.6

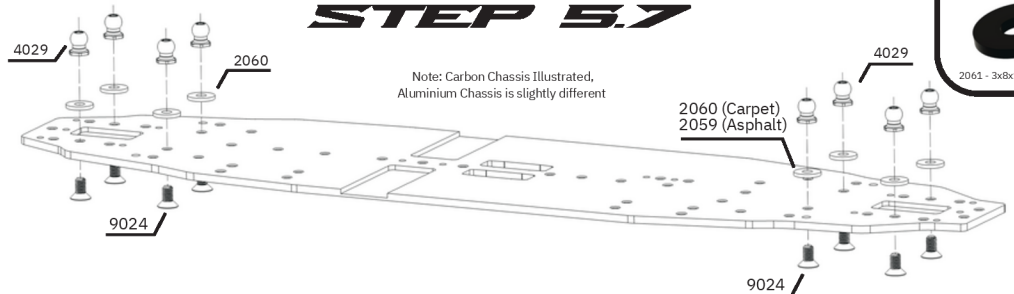
CARBON CHASSIS ONLY!



Note: Chassis is located in main kit box, not inside Bag D!

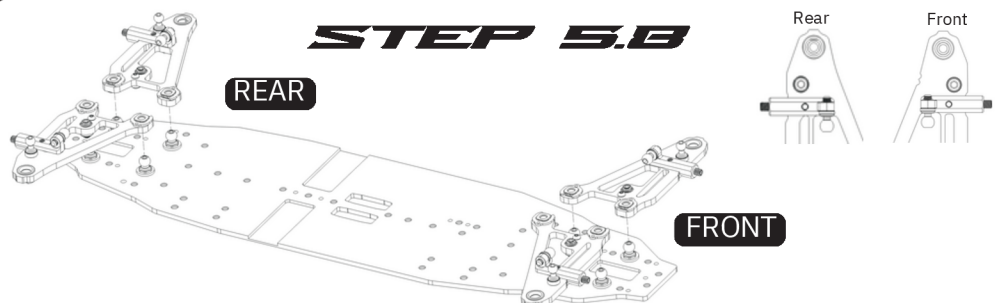
1. If using a carbon chassis, lightly sand the edges of the chassis to remove sharp edges
2. After sanding, use a wet cloth to wipe away carbon dust. Wear a mask during this process!

STEP 5.7



1. Install 4029 Balls onto chassis with correct 8mm diameter shims underneath
2. On the front, use 2060 1mm Shims for carpet and 2059 0.5mm shims for asphalt
3. Use a 2.5mm hex driver or 5.5mm nut driver to hold 4029 while tightening 9024 screws

STEP 5.8



1. Pop assembled arms onto balls. Note which ones are front and rear! (Front has notches)
2. To do this, place each arm on top of chassis balls, with the chassis on a flat surface, press down firmly directly on top of each ball cup to pop it onto the ball.

TIP: If arms are not free, remove 1021 clip and squeeze the 3026A ball cup on both sides until ball cup moves freely on the ball. Reinstall the arm and 1021 clip and repeat until they drop under their own weight.

SKU	Description	QTY
2042H	2.0mm Alu Chassis	1
1012	Rear Suspension Arm	2
1019	2.2mm Carbon Front Topdeck	1
1020	2.2mm Carbon Rear Topdeck	1
1021	Suspension Arm Clips	12
1029	0.5x7.5mm Carbon Shim	2
1050	-2mm Front Suspension Arm	2
1051	-2mm Front Upper Bulkhead L/R	2
1053	Rear Left Upper Bulkhead (Split)	1
1054	Rear Right Upper Bulkhead (Split)	1
2017H	Outer Shock Attachment	4
2028	4.3x11.8mm Ballstud	4
2035H	Upper Bulkhead Inserts 1 Dot	8
2057	3x5.5x1.0mm Shim	6
2058	3x5.5x2.0mm Shim	4
2059	3x8x0.5mm Shim	4
2060	3x8x1mm Shim	8
2062	M3 Threaded Insert	4
2066H	Front Left Bulkhead (V2)	1
2067H	Front Right Bulkhead (V2)	1
2068H	Rear Left Bulkhead (V2)	1
2069H	Rear Right Bulkhead (V2)	1
3010	Droop Screw Inserts	4
3026A	5.0mm Lower Arm Ball Cup	16
4028	4.8mm Female Upper Ball	8
4029	5.0mm Female Lower Ball	8
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	4
4038	Centre Tensioner Sleeve	2
4043	Topdeck Motormount Screw	2
4044	4x6x0.2mm Stainless Steel Shim	2
4045	4x6x0.5mm Stainless Steel Shim	5
5012	Front Centre Weight (13g)	1
5013	Rear Centre Weight (19g)	1
6011	4x7x2.5mm Metal Shield Bearing	3
7013	Bando 351 Drive Belt	2
9011	M2x5mm Button Head Screw	4
9014	M2.5x5mm Button Head Screw	12
9018	M3x6mm Button Head Screw	17
9019	M3x8mm Button Head Screw	9
9024	M3x6mm Flat Head Screw	20
9028	M3x8mm Grub Screw	4
9029	M4x8mm Grub Screw	4

STEP 5.9

1. Install 4030 Ball Studs into 2068H and 2069H bulkheads with 2057 shims underneath

STEP 5.10

Note: Thick section next to eccentrics should be facing outwards on all bulkheads!

1. Install 2066H, 2067H, 2068H and 2069H, as well as previously assembled motor-mount assembly. Locate bulkheads into locating pin holes on chassis and tighten all 9024 screws

MOTOR-MOUNT FLEX OPTIONS

Diagram illustrating the motor-mount flex options, showing the progression from SOFTEST to HARDEST, with KLT and FRONT labels.

STEP 5.11

NOTE! Orientation

NOTE! Orientation

NOTE! Orientation

7014 - 351 Low Friction Drive Belt

DIFF HEIGHT

Initial Position for Carpet (Diff Low) Initial Position for Asphalt (Diff High)

BELT TENSION

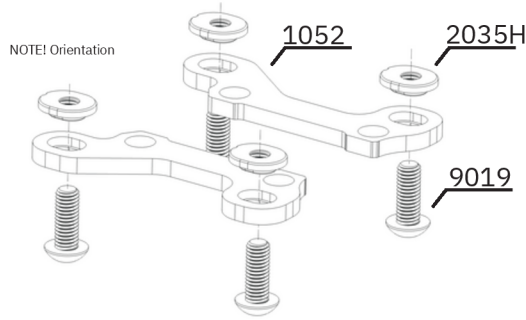
REAR FRONT

LOOSEN TIGHTEN LOOSEN

- Install 7013 Belts in correct orientation on centre pulley
- Insert the previously built spool and diff assemblies one at a time on the belts, and slide into the bulkheads
- Locate the eccentric in the correct way up for your type of surface. Central setting provides an initial belt setting
- Turning the eccentric either way from centre will adjust the belt tension at the selected diff height
- When setting your desired belt tension, take into account that the belts will stretch slightly after a few runs

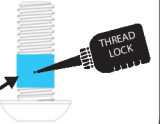
SKU	Description	QTY
2042H	2.0mm Alu Chassis	1
1012	Rear Suspension Arm	2
1019	2.2mm Carbon Front Topdeck	1
1020	2.2mm Carbon Rear Topdeck	1
1021	Suspension Arm Clips	12
1029	0.5x7.5mm Carbon Shim	2
1050	-2mm Front Suspension Arm	2
1051	-2mm Front Upper Bulkhead L/R	2
1053	Rear Left Upper Bulkhead (Split)	1
1054	Rear Right Upper Bulkhead (Split)	1
2017H	Outer Shock Attachment	4
2028	4.3x11.8mm Ballstud	4
2035H	Upper Bulkhead Inserts 1 Dot	8
2057	3x5.5x1.0mm Shim	6
2058	3x5.5x2.0mm Shim	4
2059	3x8x0.5mm Shim	4
2060	3x8x1mm Shim	8
2062	M3 Threaded Insert	4
2066H	Front Left Bulkhead (V2)	1
2067H	Front Right Bulkhead (V2)	1
2068H	Rear Left Bulkhead (V2)	1
2069H	Rear Right Bulkhead (V2)	1
3010	Droop Screw Inserts	4
3026A	5.0mm Lower Arm Ball Cup	16
4028	4.8mm Female Upper Ball	8
4029	5.0mm Female Lower Ball	8
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	4
4038	Centre Tensioner Sleeve	2
4043	Topdeck Motormount Screw	2
4044	4x6x0.2mm Stainless Steel Shim	2
4045	4x6x0.5mm Stainless Steel Shim	5
5012	Front Centre Weight (13g)	1
5013	Rear Centre Weight (19g)	1
6011	4x7x2.5mm Metal Shield Bearing	3
7013	Bando 351 Drive Belt	2
9011	M2x5mm Button Head Screw	4
9014	M2.5x5mm Button Head Screw	12
9018	M3x6mm Button Head Screw	17
9019	M3x8mm Button Head Screw	9
9024	M3x6mm Flat Head Screw	20
9028	M3x8mm Grub Screw	4
9029	M4x8mm Grub Screw	4

STEP 5.12



Initial Caster = 4 Degrees

1. Press 2035 pills firmly into 1015A/1031A upper bulkhead ensuring correct pill orientation
2. Apply a small amount of medium strength thread lock near the base of 9019 screws as pictured
3. Tighten 2035 pills in place firmly with 9019 screws inserted from underneath the upper bulkhead

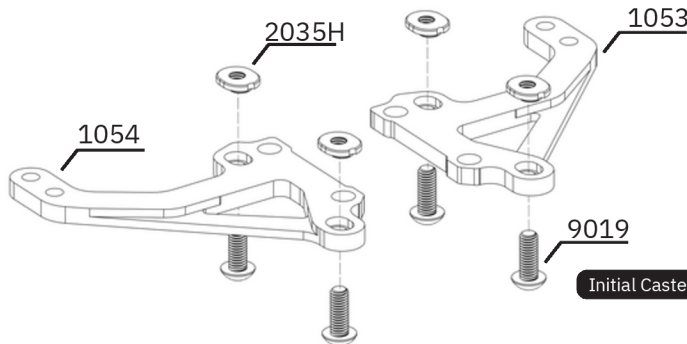


OPTION PART



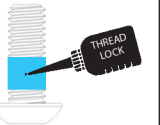
2036 - Upper Bulkhead Inserts - 2 Dot

STEP 5.13



Initial Caster = -2 Degrees

1. Install 2035 pills into 1054 upper bulkhead ensuring correct pill orientation
2. Apply a small amount of medium strength thread lock near the base of 9019 screws as pictured
3. Tighten 2035 pills in place firmly with 9019 screws inserted from underneath the upper bulkhead



CASTER ADJUSTMENT

FRONT

FRONT OF THE CAR

REAR

OPTION

OPTION

OPTION

OPTION



3 DEG

4 DEG

5 DEG

6 DEG

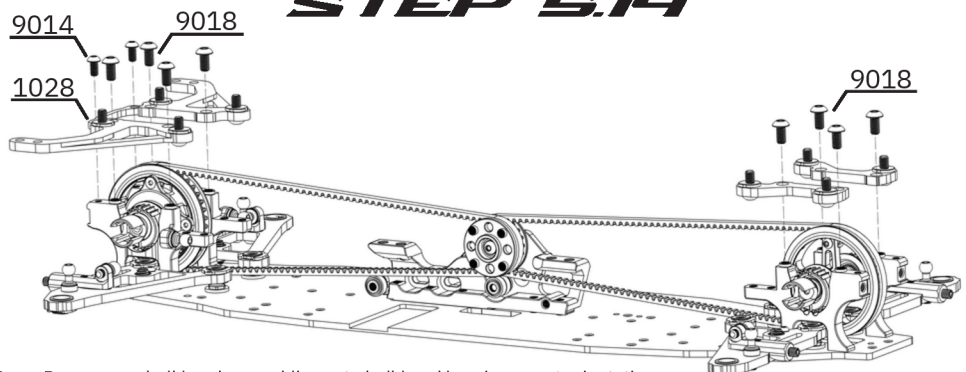
-4 DEG

-3 DEG

-2 DEG

-1 DEG

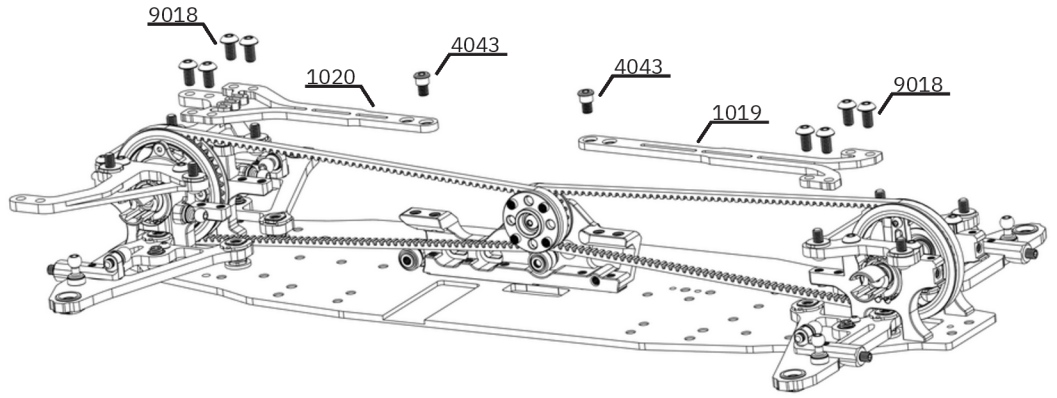
STEP 5.14



1. Press upper bulkhead assemblies onto bulkhead lugs in correct orientation
2. Locate 1028 behind rear body mount
3. Install and tighten 9018 and 9014 screws to secure upper bulkheads and 1028 stiffener in place

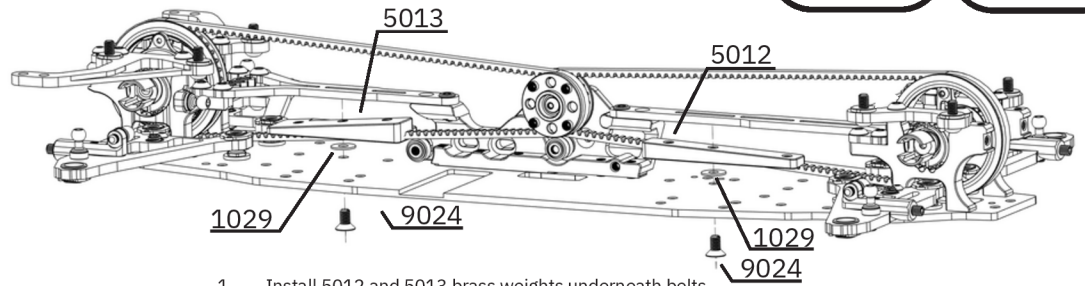
SKU	Description	QTY
2042H	2.0mm Alu Chassis	1
1012	Rear Suspension Arm	2
1019	2.2mm Carbon Front Topdeck	1
1020	2.2mm Carbon Rear Topdeck	1
1021	Suspension Arm Clips	12
1029	0.5x7.5mm Carbon Shim	2
1050	-2mm Front Suspension Arm	2
1051	-2mm Front Upper Bulkhead L/R	2
1053	Rear Left Upper Bulkhead (Split)	1
1054	Rear Right Upper Bulkhead (Split)	1
2017H	Outer Shock Attachment	4
2028	4.3x11.8mm Ballstud	4
2035H	Upper Bulkhead Inserts 1 Dot	8
2057	3x5.5x1.0mm Shim	6
2058	3x5.5x2.0mm Shim	4
2059	3x8x0.5mm Shim	4
2060	3x8x1mm Shim	8
2062	M3 Threaded Insert	4
2066H	Front Left Bulkhead (V2)	1
2067H	Front Right Bulkhead (V2)	1
2068H	Rear Left Bulkhead (V2)	1
2069H	Rear Right Bulkhead (V2)	1
3010	Droop Screw Inserts	4
3026A	5.0mm Lower Arm Ball Cup	16
4028	4.8mm Female Upper Ball	8
4029	5.0mm Female Lower Ball	8
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	4
4038	Centre Tensioner Sleeve	2
4043	Topdeck Motormount Screw	2
4044	4x6x0.2mm Stainless Steel Shim	2
4045	4x6x0.5mm Stainless Steel Shim	5
5012	Front Centre Weight (13g)	1
5013	Rear Centre Weight (19g)	1
6011	4x7x2.5mm Metal Shield Bearing	3
7013	Bando 351 Drive Belt	2
9011	M2x5mm Button Head Screw	4
9014	M2.5x5mm Button Head Screw	12
9018	M3x6mm Button Head Screw	17
9019	M3x8mm Button Head Screw	9
9024	M3x6mm Flat Head Screw	20
9028	M3x8mm Grub Screw	4
9029	M4x8mm Grub Screw	4

STEP 5.15



1. Install 1020 Topdeck on the rear and 1019 topdeck on the front and align holes
2. Install 4043 screws into the inner holes on the topdeck (closest to the layshaft) and tighten
3. Install 9018 screws. With the chassis on a flat surface, tighten 9018 screws and ensure car sits flat.

STEP 5.16



1. Install 5012 and 5013 brass weights underneath belts
2. Install 3010 screws with 1029 shim between the chassis and the weights
3. Install 9018 screws. With the chassis on a flat surface, tighten 9018 screws.

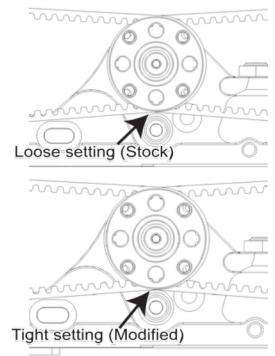
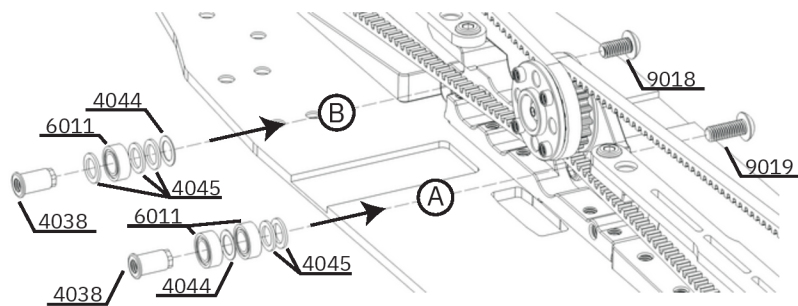
CENTRE WEIGHT FLEX OPTIONS



- Flex screws can be added either side of kit positions
- Remove shims when using more than 1 screw
- Adding screws removes flex at that end of the car

● Kit Position
● Optional Position

STEP 5.17



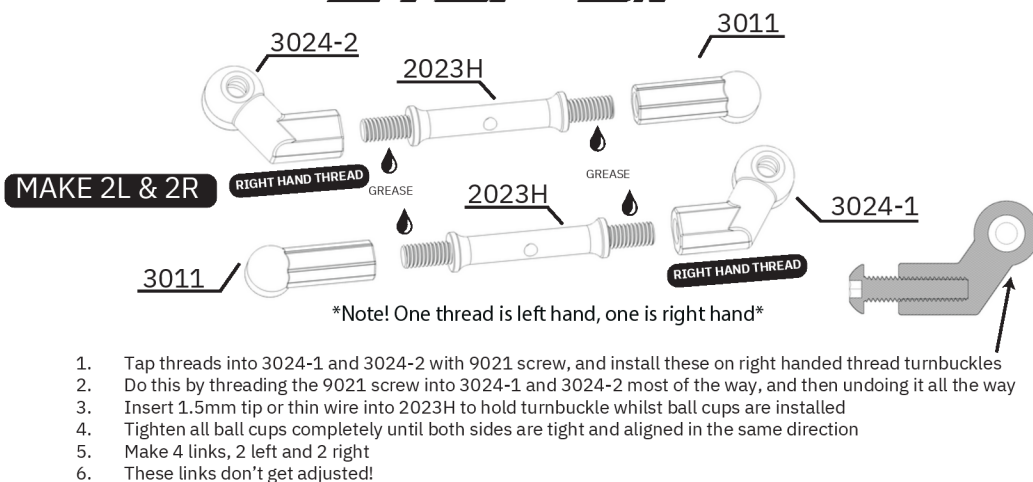
1. Assemble belt guide assemblies with correct shimming, and fasten with 9018 and 9019 screws into motormount
2. Location A prevents belt skipping on the pulley under load. We suggest a tight setting for modified and loose for stock. When using a tight setting, we have limited the movement so that it won't cause unnecessary binding of the drivetrain, so the tightest setting can be used for modified. For stock, you can run the loosest setting and tighten it if you feel it is necessary. This still prevents skipping under high load and also allows you to run your belts looser for reduced friction.
3. Location B is a rear belt tensioner which should be set to just engaging initially, and set tighter as the belt wears

STEP 6 - UPPER ARMS, TURNBUCKLES & ROCKERS

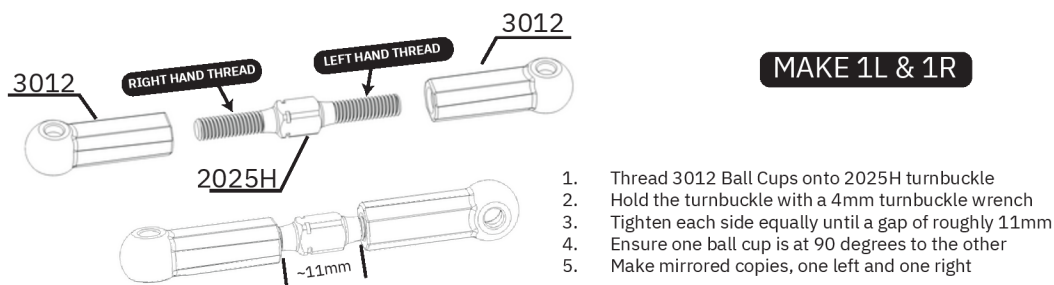
BAG E PARTS LIST

SKU	Description	QTY
2015H	Suspension Rocker Arm FL/RR	2
2016H	Suspension Rocker Arm FR/RL	2
2023H	Suspension Rocker Turnbuckle	4
2024H	Steering Turnbuckle	2
2025H	Rear Toe/Servo Turnbuckle	2
2057	3x5.5x1mm Shim	8
2063	3x4.4x0.5mm Rocker Shim	4
3011	4.3x13mm Ball Cup	5
3012	4.3x16mm Ball Cup	8
3017	Upper Arm A	2
3018	Upper Arm B	2
3020	Upper Arm Ball Cup Front	2
3021	Upper Arm Ball Cup Rear	2
3024-1	Offset Ballcup 1	3
3024-2	Offset Ballcup 2	2
4032	4.3x8.1mm Male Ball Stud	4
4033A	M4 Upper Arm Adjuster Screw	4
4037	Rocker Arm Sleeve	4
6011	4x7x2.5mm Metal Shield Bearing	8
9016	M2.5x14mm Button Head Screw	2
9021	M3x12mm Button Head Screw	4

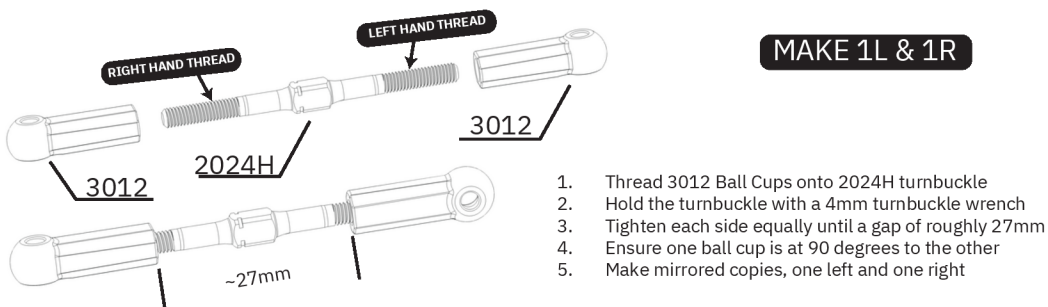
STEP 6.1



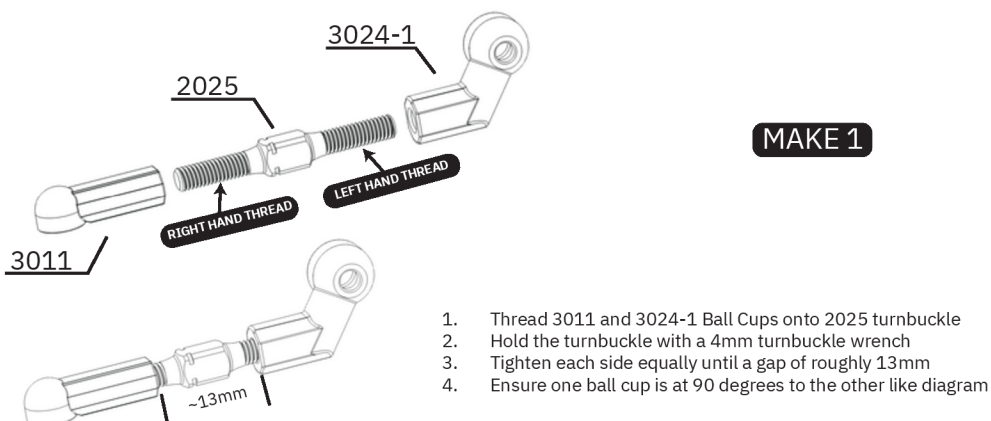
STEP 6.2



STEP 6.3



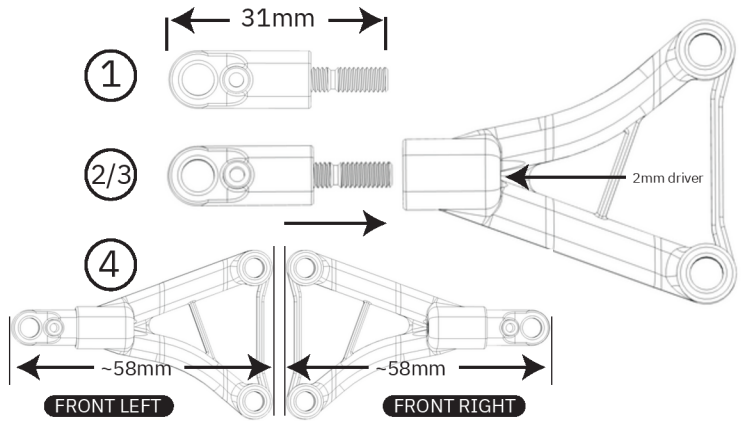
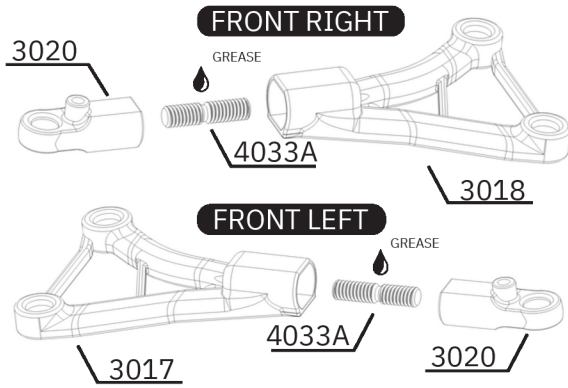
STEP 6.4



STEP 6 - UPPER ARMS. TURNBUCKLES & ROCKERS

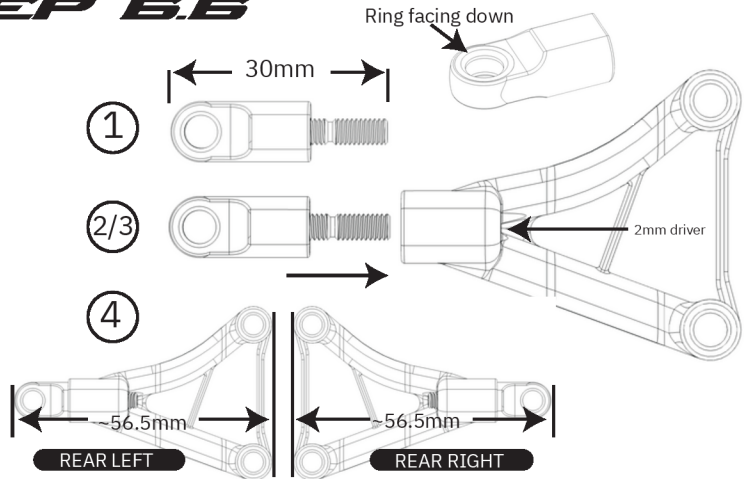
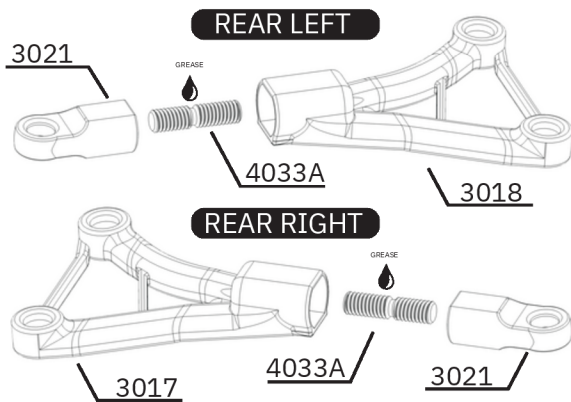
BAG E

STEP 6.5



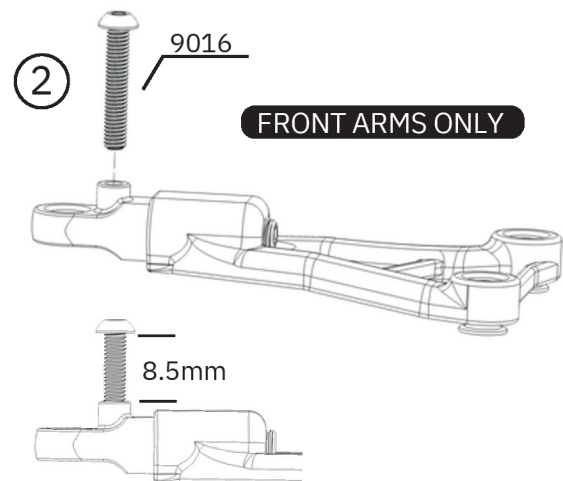
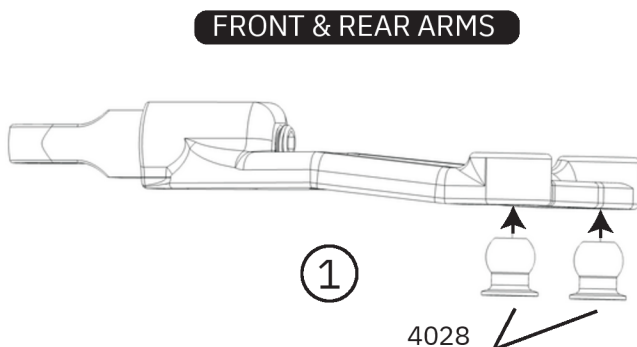
1. Apply grease to 4033A and screw into 3020 all the way, then back it out to a total length of 31.5mm
2. Insert 2mm wrench through arm hole at arrow, and attach 4033A/3020 assembly to the tip and screw into arm
3. Tighten 3020 until flush with the arm cavity, hold 3020 whilst tightening 4033A ensuring 2mm hole is facing up
4. Keep tightening 4033A pulling 3020 into the arm until the total length of the arm is roughly 58mm
5. Repeat steps above for mirrored copy on the other side, giving you a pair of front upper suspension arms

STEP 6.6



1. Apply grease to 4033A and screw into 3021 all the way, then back it out to a total length of 31.5mm
2. Insert 2mm wrench through arm hole at arrow, and attach 4033A/3021 assembly to the tip and screw into arm
3. Tighten 3020 until flush with the arm cavity, hold 3021 whilst tightening 4033A ensuring ball ring is facing down
4. Keep tightening 4033A pulling 3020 into the arm until the total length of the arm is roughly 56.5mm
5. Repeat steps above for mirrored copy on the other side, giving you a pair of front upper suspension arms

STEP 6.7



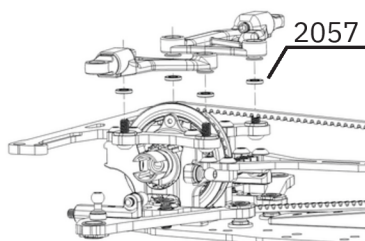
1. Insert 4028 Ball studs (from Bag D) into front and rear arm assemblies from underneath using wide jaw/ball cup pliers
2. Thread 9016 Screw into front left and right suspension arms and set initial height to 8.5mm

Note: From this point in the manual onwards, 1053 and 1054 rear body mounts will be illustrated as 1017 to prevent substantial manual updates

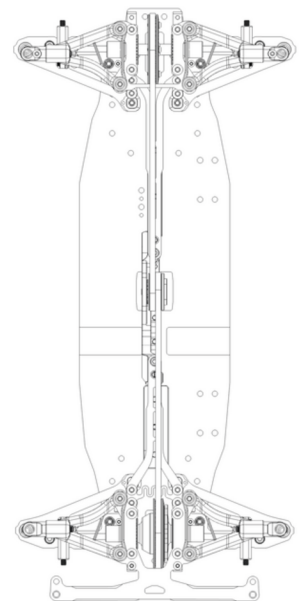
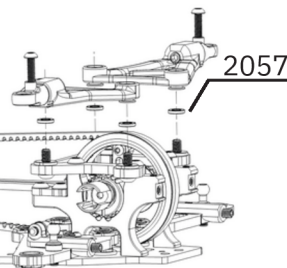
STEP 6.8

BAG E

REAR ARMS



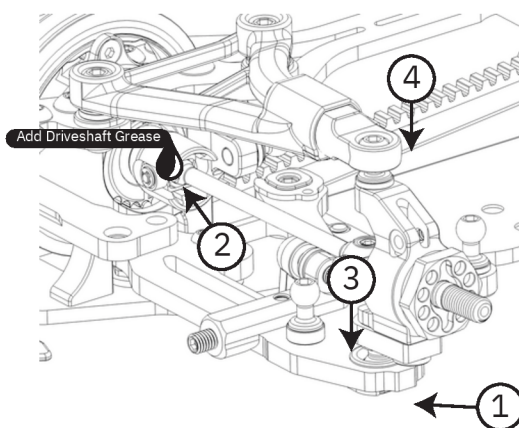
FRONT ARMS



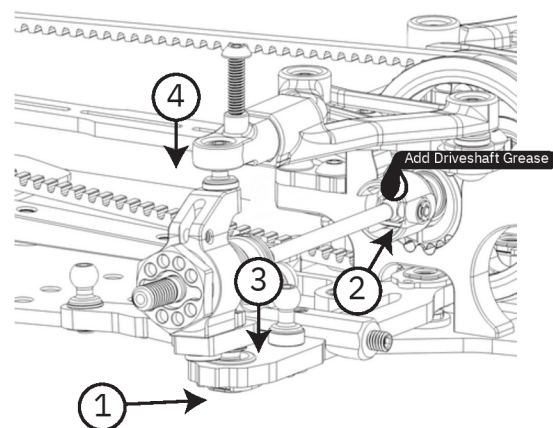
1. Install 2057 shims from Bag D onto front and rear upper arm screws Using a 2.5mm hex driver, tighten upper arms onto upper bulkheads in correct orientation Curved part of upper arm should be facing the centre of the car front and rear

STEP 6.9

REAR HUBS



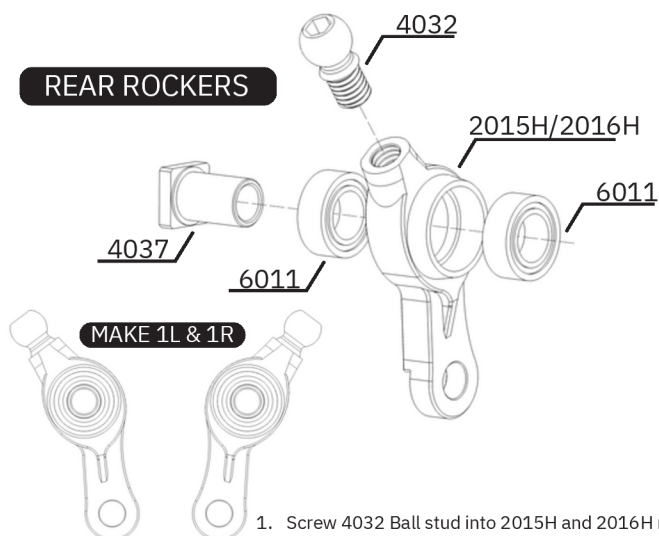
FRONT HUBS



1. With the chassis on a flat, hard surface, use a 10mm droop block or similar directly under the outer ball cup to support the arm.
2. Insert inner drive joint into diff/spool ensuring the inner driveshaft coupler pin is in place. Add some grease/oil to the joint
3. Press down firmly on the hub to pop the hub into the outer arm ball cup. Steering arms should all be facing the centre!
4. With the droop block still under the arm, press the upper arm ball cup onto the top of the hub ball

STEP 6.10

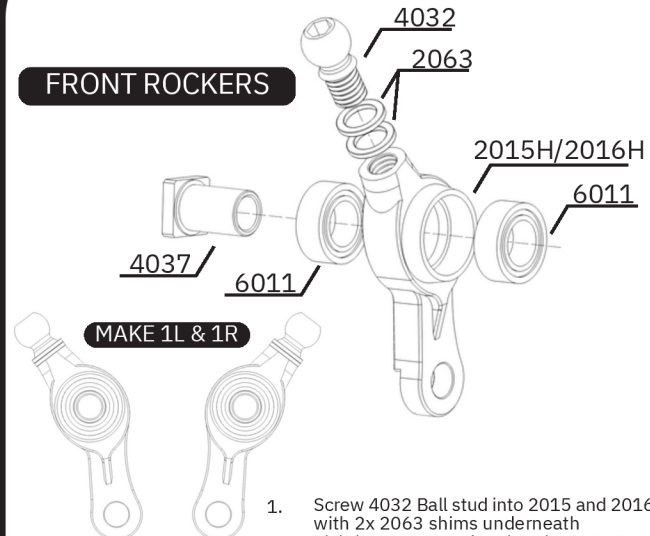
REAR ROCKERS



1. Screw 4032 Ball stud into 2015H and 2016H rockers
2. Tightly press 6011 bearings into 2015H and 2016H
3. Slide 4037 into 2015H and 2016H from behind
4. Make a mirrored pair of rear rockers

STEP 6.11

FRONT ROCKERS



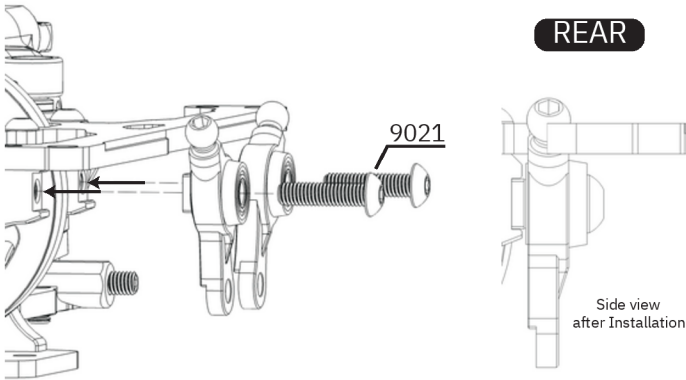
1. Screw 4032 Ball stud into 2015 and 2016 rockers with 2x 2063 shims underneath
2. Tightly press 6011 bearings into 2015 and 2016
3. Slide 4037 into 2015 and 2016 from behind
4. Make a mirrored pair of front rockers

STEP 6 - UPPER ARMS. TURNBUCKLES & ROCKERS

BAG E

STEP 6.12

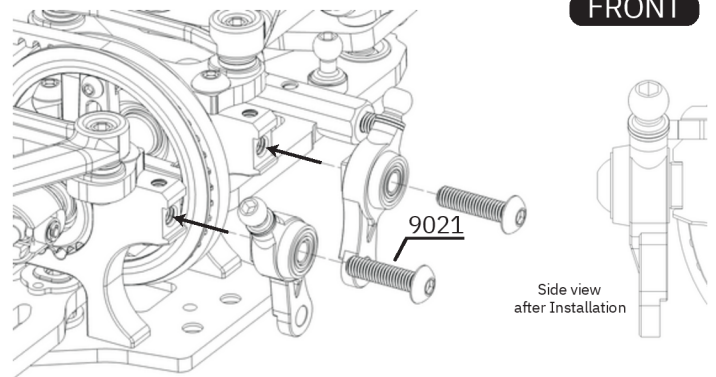
REAR



1. Insert 9021 screws into rocker assembly and partially tighten
2. Once the rocker sleeve is close to the bulkhead, align the square of the rocker sleeve and bulkhead, and tighten 9021 screw

STEP 6.13

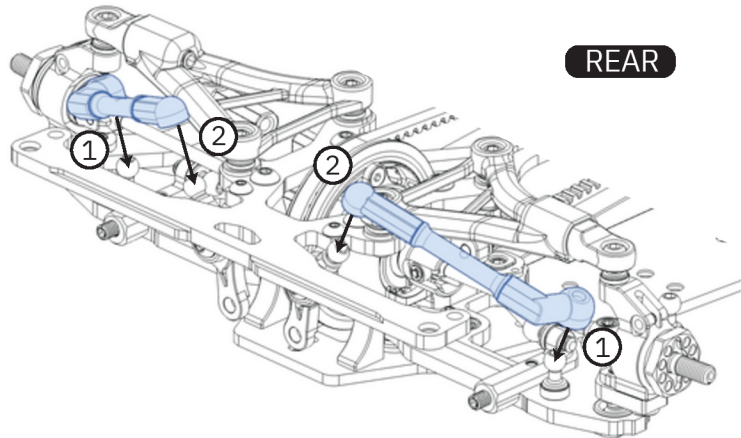
FRONT



1. Insert 9021 screws into correct rocker assembly and partially tighten
2. Once the rocker sleeve is close to the bulkhead, align the square of the rocker sleeve and bulkhead, and tighten 9021 screw

STEP 6.14

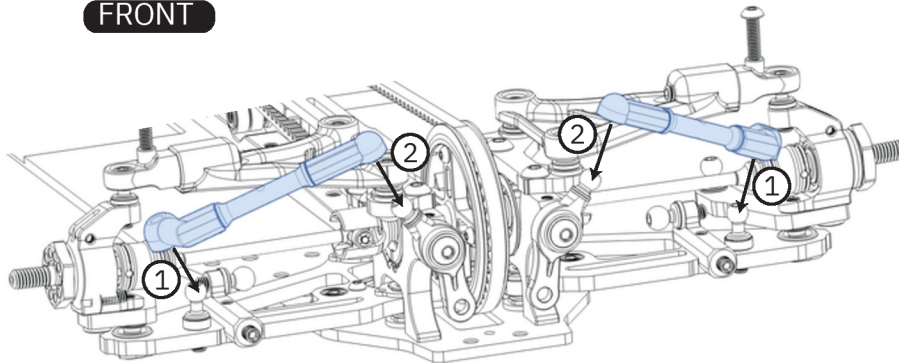
REAR



1. Select a pair (left and right) of rocker turnbuckles and snap onto balls in order (1 first, then 2)
2. Use wide jaw pliers to pop joint 1 on first. Take care as it is quite tight!
3. Pop on joint 2 with fingers. Ensure all joints move freely as the suspension arms move up and down

STEP 6.15

FRONT

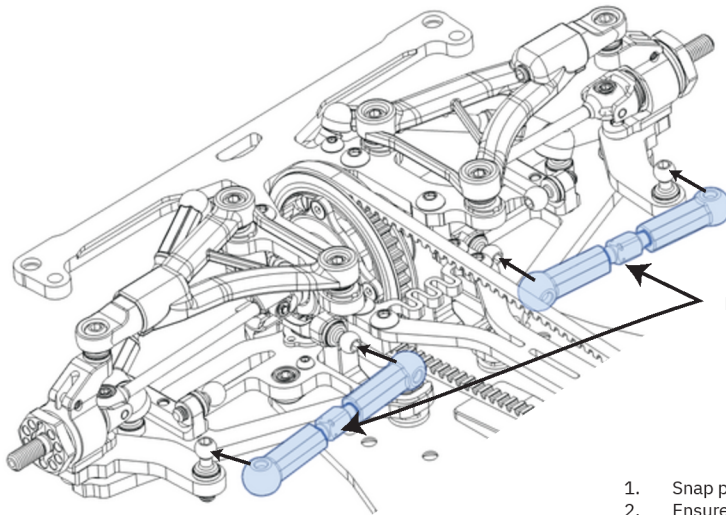


1. Select final pair of rocker turnbuckles and snap onto balls in order (1 first, then 2)
2. Use wide jaw pliers to pop joint 1 on first. Take care as it is quite tight!
3. Pop on joint 2 with fingers. Ensure all joints move freely as the suspension arms move up and down

STEP 6 - UPPER ARMS, TURNBUCKLES & ROCKERS

BAG E

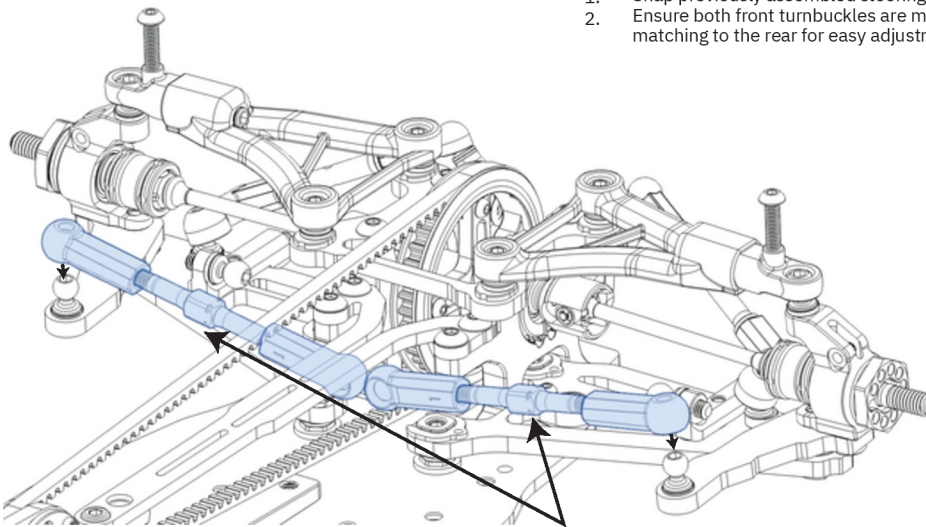
STEP 6.16



REAR

1. Snap previously assembled rear toe turnbuckles onto ballstuds
2. Ensure both turnbuckles are matching in orientation for easy adjustment

STEP 6.17



FRONT

1. Snap previously assembled steering turnbuckles onto ballstuds
2. Ensure both front turnbuckles are matching in orientation and also matching to the rear for easy adjustment

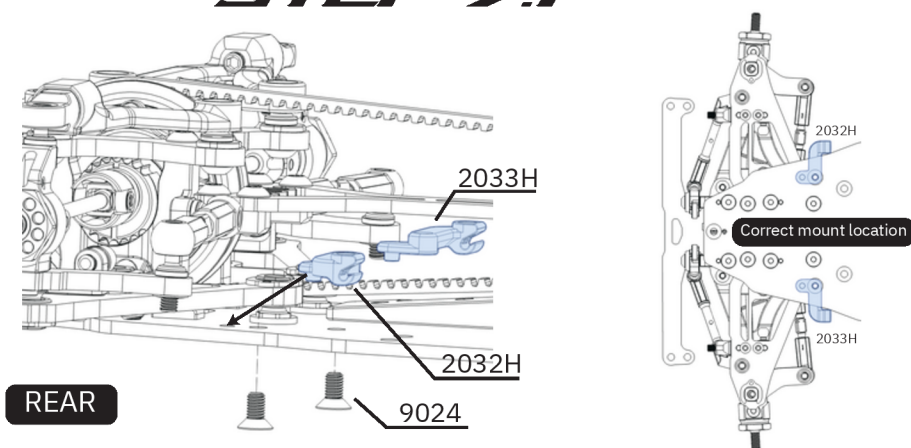
Match turnbuckle direction
on both sides to rear turnbuckles

STEP 7 - ANTI-ROLL BARS, STEERING RACK & SERVO MOUNT

BAG F PARTS LIST

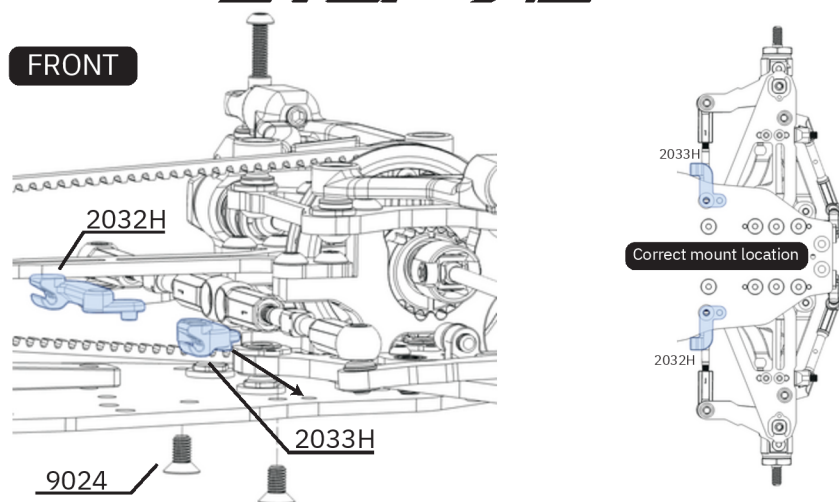
SKU	Description	QTY
1021	Floating Servo Brace	1
2019H	Steering Rack	1
2020H	Steering Rack Arm	2
2021AH	Steering Rack Post	2
2027	4.3x8.5mm Ballstud	4
2029H	Floating Servo Mount Inner	1
2030H	Floating Servo Mount Outer	1
2032H	Anti-Roll Bar Holder FL/RR	2
2033H	Anti-Roll Bar Holder FR/RL	2
2046H	Anti-Roll Bar Adapter	4
2056	3x5.5x0.5mm Shim	2
2063	3x4.4x0.5mm Aluminium Shim	2
3008	Anti-Roll Bar Ball Cup Open	4
3009	Anti-Roll Bar Ball Cup Closed	4
4022	Anti-Roll Bar (1.0mm)	1
4023	Anti-Roll Bar (1.1mm)	1
4024	Anti-Roll Bar (1.2mm)	1
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	1
4032	4.3x8.1mm Male Ball Stud	1
4049	5x7x0.1mm Stainless Steel Shim	2
6013	5x8x2.5mm Metal Shield Bearing	4
7011	Anti Roll Bar Stopper	4
9017	M3 x 5mm Button Head Screw	4
9018	M3 x 6mm Button Head Screw	4
9023	M3 x 5mm Flat Head Screw	2
9024	M3 x 6mm Flat Head Screw	5
9027	M3 x 3mm Grub Screw	8

STEP 7.1



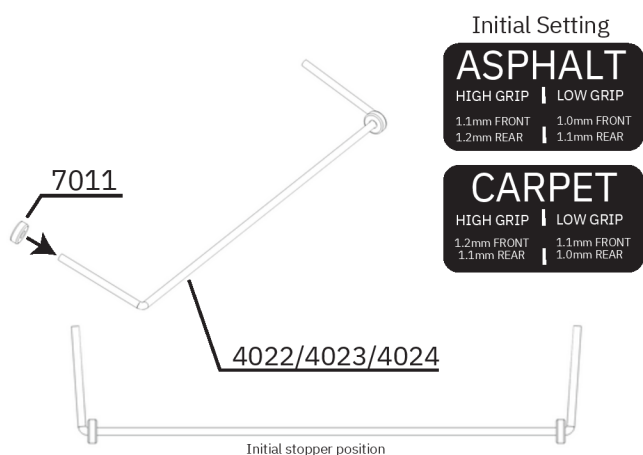
1. Insert 2032 and 2033 locating lugs into chassis locating holes on each side
2. Install and tighten 9024 screws to attach anti roll bar holders to chassis

STEP 7.2



1. Insert 2032 and 2033 locating lugs into chassis locating holes on each side
2. Install and tighten 9024 screws to attach anti roll bar holders to chassis

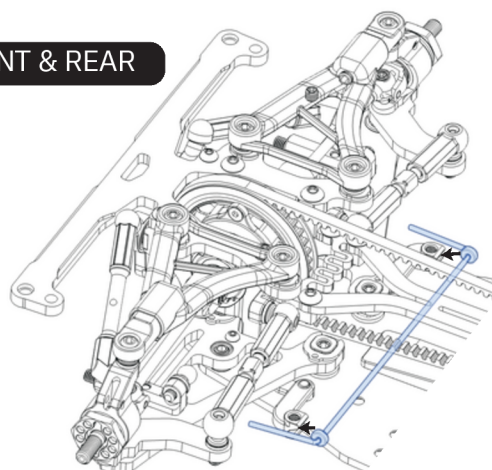
STEP 7.3



1. Select initial front and rear anti-roll bars for your track condition
2. Check anti-roll bar is flat on glass, twist lightly if necessary to flatten wire
3. Pierce 7011 Stoppers over anti roll bars and slide into position
4. Repeat for both selected front and rear anti-roll bars

STEP 7.4

FRONT & REAR



1. Insert anti-roll bar under the belt and slide into mount slots
2. Locate 7011 stoppers so the roll bar is central, has minimal play and has free movement
3. Repeat for both front and rear anti-roll bars

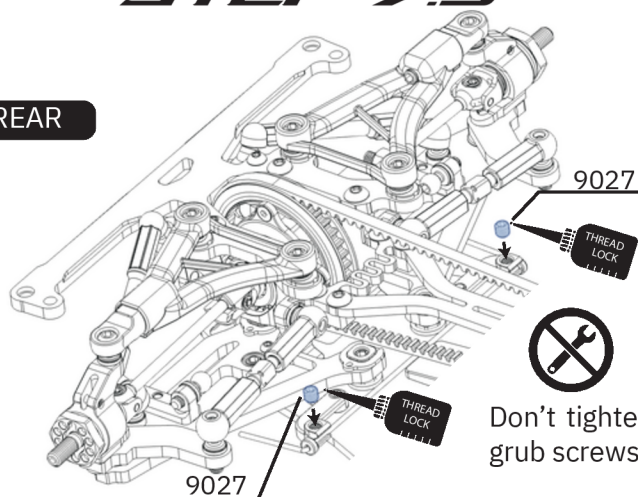
STEP 7 - ANTI-ROLL BARS, STEERING RACK & SERVO MOUNT

BAG F PARTS LIST

SKU	Description	QTY
1021	Floating Servo Brace	1
2019H	Steering Rack	1
2020H	Steering Rack Arm	2
2021AH	Steering Rack Post	2
2027	4.3x8.5mm Ballstud	4
2029H	Floating Servo Mount Inner	1
2030H	Floating Servo Mount Outer	1
2032H	Anti-Roll Bar Holder FL/RR	2
2033H	Anti-Roll Bar Holder FR/RL	2
2046H	Anti-Roll Bar Adapter	4
2056	3x5.5x0.5mm Shim	2
2063	3x4.4x0.5mm Aluminium Shim	2
3008	Anti-Roll Bar Ball Cup Open	4
3009	Anti-Roll Bar Ball Cup Closed	4
4022	Anti-Roll Bar (1.0mm)	1
4023	Anti-Roll Bar (1.1mm)	1
4024	Anti-Roll Bar (1.2mm)	1
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	1
4032	4.3x8.1mm Male Ball Stud	1
4049	5x7x0.1mm Stainless Steel Shim	2
6013	5x8x2.5mm Metal Shield Bearing	4
7011	Anti Roll Bar Stopper	4
9017	M3 x 5mm Button Head Screw	4
9018	M3 x 6mm Button Head Screw	4
9023	M3 x 5mm Flat Head Screw	2
9024	M3 x 6mm Flat Head Screw	5
9027	M3 x 3mm Grub Screw	8

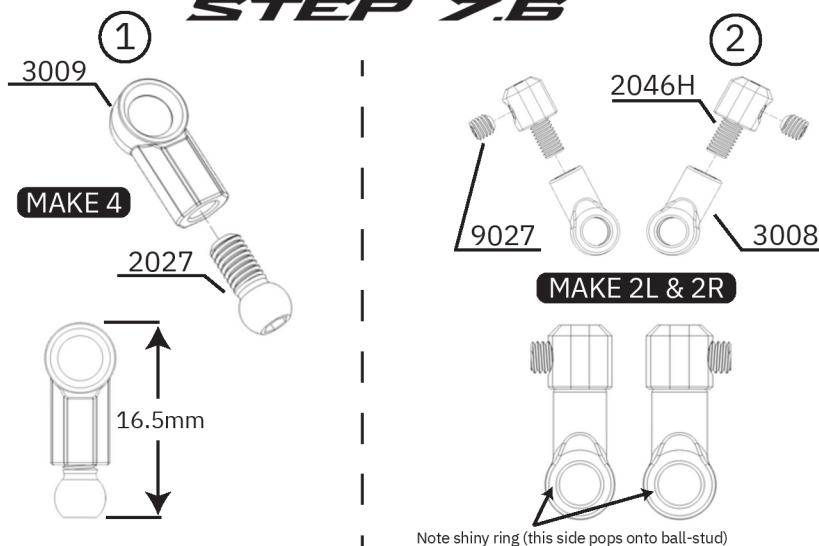
STEP 7.5

FRONT & REAR



1. Apply medium strength thread lock to 9027 grub screws
2. Thread grub screws into anti-roll bar mount
3. Tighten grub screws whilst moving the anti-roll bar. As soon as anti roll bar movement tightens, undo grub screw slowly until the anti roll bar movement is perfectly free-moving again. You want the screws as tight as possible with the roll bar moving freely
4. Repeat above steps for both front and rear anti-roll bars

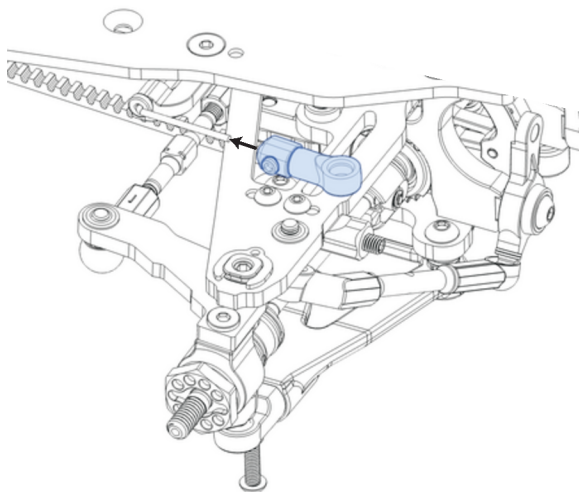
STEP 7.6



1. Screw 2027 into 3009 until total length of 16.5mm. Make 4pcs.
2. Screw 3008 onto 2046H all the way and align. Make 2 pairs.
3. Thread 9027 into 2046H only one turn

STEP 7.7

FRONT & REAR LEFT & RIGHT



1. Slide anti-roll bar adapter assembly over anti-roll bar with grub screw facing outwards
2. Push adapter assembly all the way on and tighten grub screw whilst assembly is parallel to the chassis
3. Repeat for all 4 corners of the car, ensuring grub screw faces outwards and shiny ring on ball cup faces the arm

STEP 7 - ANTI-ROLL BARS, STEERING RACK & SERVO MOUNT

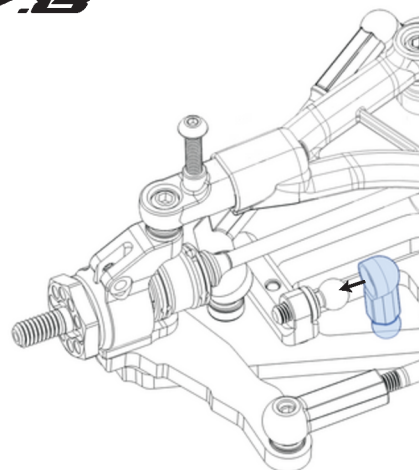
BAG F PARTS LIST

SKU	Description	QTY
1021	Floating Servo Brace	1
2019H	Steering Rack	1
2020H	Steering Rack Arm	2
2021AH	Steering Rack Post	2
2027	4.3x8.5mm Ballstud	4
2029H	Floating Servo Mount Inner	1
2030H	Floating Servo Mount Outer	1
2032H	Anti-Roll Bar Holder FL/RR	2
2033H	Anti-Roll Bar Holder FR/RL	2
2046H	Anti-Roll Bar Adapter	4
2056	3x5.5x0.5mm Shim	2
2063	3x4.4x0.5mm Aluminium Shim	2
3008	Anti-Roll Bar Ball Cup Open	4
3009	Anti-Roll Bar Ball Cup Closed	4
4022	Anti-Roll Bar (1.0mm)	1
4023	Anti-Roll Bar (1.1mm)	1
4024	Anti-Roll Bar (1.2mm)	1
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	1
4032	4.3x8.1mm Male Ball Stud	1
4049	5x7x0.1mm Stainless Steel Shim	2
6013	5x8x2.5mm Metal Shield Bearing	4
7011	Anti Roll Bar Stopper	4
9017	M3 x 5mm Button Head Screw	4
9018	M3 x 6mm Button Head Screw	4
9023	M3 x 5mm Flat Head Screw	2
9024	M3 x 6mm Flat Head Screw	5
9027	M3 x 3mm Grub Screw	8

STEP 7.8

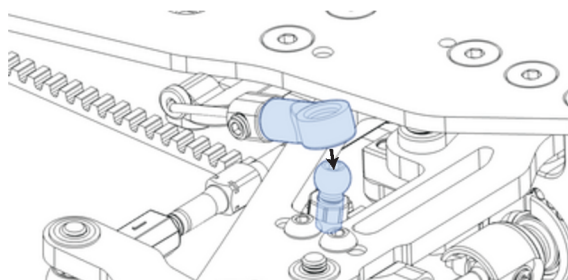
FRONT & REAR LEFT & RIGHT

1. Install previously assembled ball cup assembly onto ball
2. Ensure link is facing downwards through the hole in the arm
3. Repeat for all 4 corners of the car



STEP 7.9

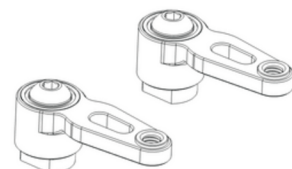
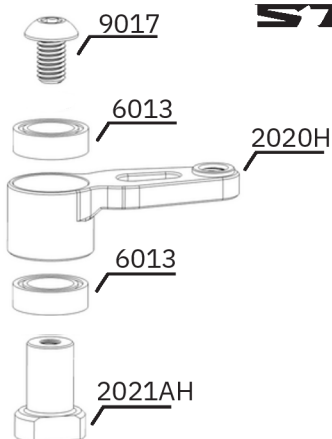
FRONT & REAR LEFT & RIGHT



1. Pop Anti-roll bar ball cup onto ball so that the system is connected
2. Repeat for all 4 corners of the car and ensure free movement of suspension and anti-roll bar system

STEP 7.10

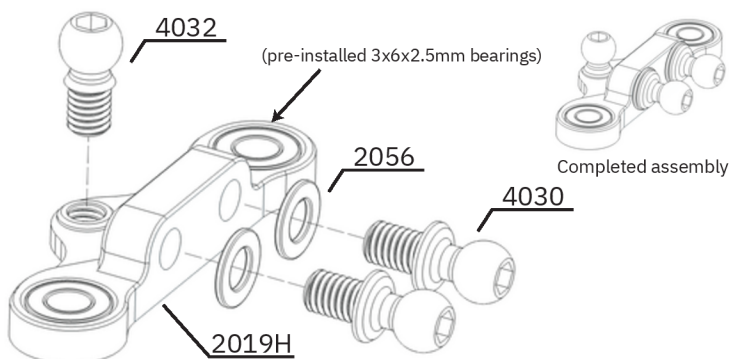
MAKE 2



Completed assembly

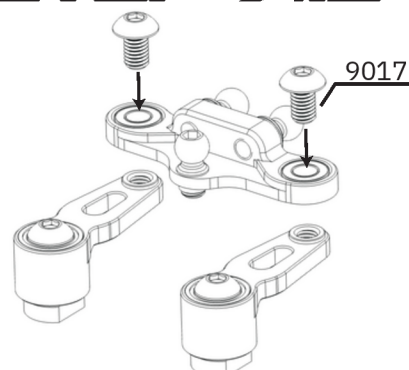
1. Press fit 6013 bearings inside 2020H firmly
2. Slide assembly onto 2021AH and install 9017
3. Hold 2021AH with a 5.5mm wrench while tightening 9017 firmly

STEP 7.11



1. Tighten 4032 ball stud into 2019H from correct side
2. Install 4030 ball studs into 2019H with 2056 shims as the initial setting

STEP 7.12



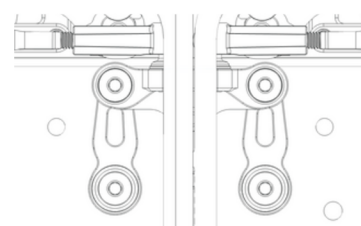
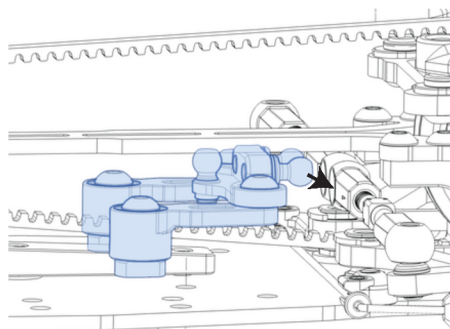
1. Attach steering rack to bellcrank arms with 9017 screws
2. Ensure free movement on all pivot points

STEP 7 - ANTI-ROLL BARS, STEERING RACK & SERVO MOUNT

BAG F PARTS LIST

SKU	Description	QTY
1021	Floating Servo Brace	1
2019H	Steering Rack	1
2020H	Steering Rack Arm	2
2021AH	Steering Rack Post	2
2027	4.3x8.5mm Ballstud	4
2029H	Floating Servo Mount Inner	1
2030H	Floating Servo Mount Outer	1
2032H	Anti-Roll Bar Holder FL/RR	2
2033H	Anti-Roll Bar Holder FR/RL	2
2046H	Anti-Roll Bar Adapter	4
2056	3x5.5x0.5mm Shim	2
2063	3x4.4x0.5mm Aluminium Shim	2
3008	Anti-Roll Bar Ball Cup Open	4
3009	Anti-Roll Bar Ball Cup Closed	4
4022	Anti-Roll Bar (1.0mm)	1
4023	Anti-Roll Bar (1.1mm)	1
4024	Anti-Roll Bar (1.2mm)	1
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	1
4032	4.3x8.1mm Male Ball Stud	1
4049	5x7x0.1mm Stainless Steel Shim	2
6013	5x8x2.5mm Metal Shield Bearing	4
7011	Anti Roll Bar Stopper	4
9017	M3 x 5mm Button Head Screw	4
9018	M3 x 6mm Button Head Screw	4
9023	M3 x 5mm Flat Head Screw	2
9024	M3 x 6mm Flat Head Screw	5
9027	M3 x 3mm Grub Screw	8

STEP 7.13



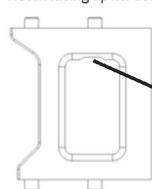
Completed installation

9023

1. Insert steering bellcrank assembly and attach with 9023 screws
2. Pop inner steering link ballcups onto steering ballstuds. This is easiest to do when the steering rack is at full lock each way

STEP 7.14

Notch facing upwards!



9023

9024

1021

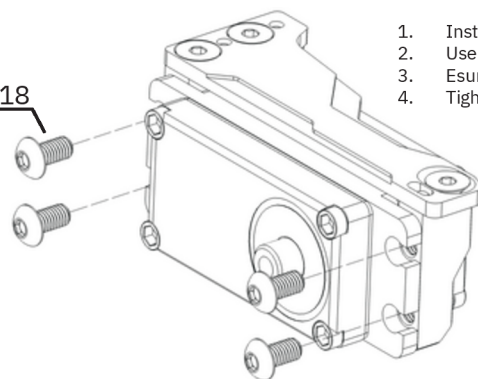
2030H

2029H

1. Locate 1021 Servo brace onto 2029H and 2030H locating pins
2. Ensure correct 2029H orientation (notch facing upwards)
3. Install 2x inner 9023 screws to fix in place
4. Install outer 9024 screw into 2030H but keep it slightly loose until servo is fitted

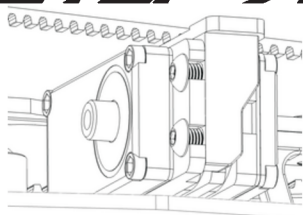
STEP 7.15

9018



1. Install desired low profile servo in the correct orientation
2. Use 9018 screws to install servo into servo holder
3. Ensure servo remains square inside the mount after screws are tightened
4. Tighten 9023 outer screw from previous step

STEP 7.16



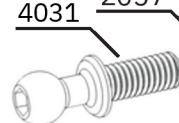
One of these 9023 screws is located in Bag I!

9023

1. Locate servo mount assembly into locating holes on chassis
2. Use 9023 screws to tighten servo mount onto chassis
One of these 9013 screws is located in Bag I!

STEP 7.17

4031 2057



2057 is Located in Bag I!

Servo horn
(Not included)

18mm

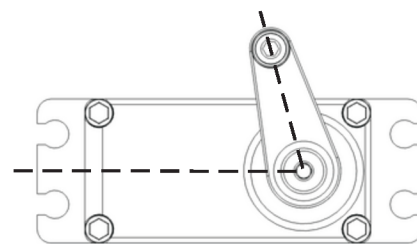
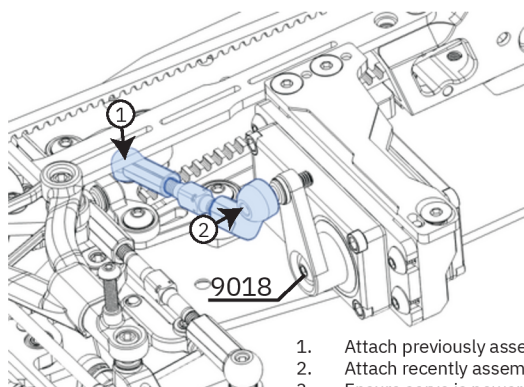
1. Select your own servo horn (we suggest 18mm height)
2. Screw 4031 Ball stud into servo horn with 2057 Shim from Bag I behind
3. Tighten 4031 tightly or use thread lock to prevent loosening

STEP 7 - ANTI-ROLL BARS, STEERING RACK & SERVO MOUNT

BAG F PARTS LIST

SKU	Description	QTY
1021	Floating Servo Brace	1
2019H	Steering Rack	1
2020H	Steering Rack Arm	2
2021AH	Steering Rack Post	2
2027	4.3x8.5mm Ballstud	4
2029H	Floating Servo Mount Inner	1
2030H	Floating Servo Mount Outer	1
2032H	Anti-Roll Bar Holder FL/RR	2
2033H	Anti-Roll Bar Holder FR/RL	2
2046H	Anti-Roll Bar Adapter	4
2056	3x5.5x0.5mm Shim	2
2063	3x4.4x0.5mm Aluminium Shim	2
3008	Anti-Roll Bar Ball Cup Open	4
3009	Anti-Roll Bar Ball Cup Closed	4
4022	Anti-Roll Bar (1.0mm)	1
4023	Anti-Roll Bar (1.1mm)	1
4024	Anti-Roll Bar (1.2mm)	1
4030	4.3x10.3mm Male Ball Stud	2
4031	4.3x13.8mm Male Ball Stud	1
4032	4.3x8.1mm Male Ball Stud	1
4049	5x7x0.1mm Stainless Steel Shim	2
6013	5x8x2.5mm Metal Shield Bearing	4
7011	Anti Roll Bar Stopper	4
9017	M3 x 5mm Button Head Screw	4
9018	M3 x 6mm Button Head Screw	4
9023	M3 x 5mm Flat Head Screw	2
9024	M3 x 6mm Flat Head Screw	5
9027	M3 x 3mm Grub Screw	8

STEP 7.1B



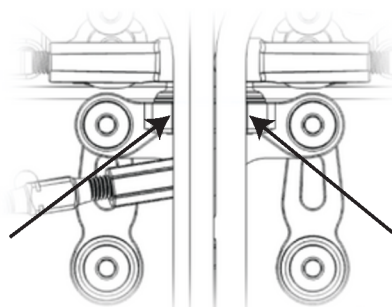
Initial central steering servo horn position

1. Attach previously assembled steering turnbuckle to steering bellcrank
2. Attach recently assembled servo horn to steering turnbuckle ball cup
3. Ensure servo is powered on and trim and sub trim are at zero
4. Attach servo horn in position that most centralises the steering rack as closely as possible
5. Tighten servo horn onto servo firmly with 9018 screw

STEERING SETUP

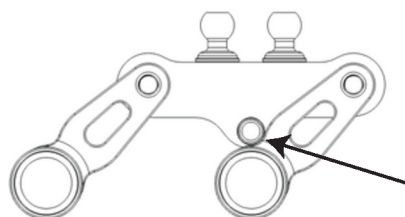
These steps can be completed after the car is finished with electronics installed.

STEP 1 - CENTRALIZING STEERING RACK



With steering trim at 0, use the sub-trim function on the transmitter to centralise the steering rack. This can be done by eyeing the steering rack from above and aligning the rack against the topdeck.

STEP 2 - SETTING END POINTS



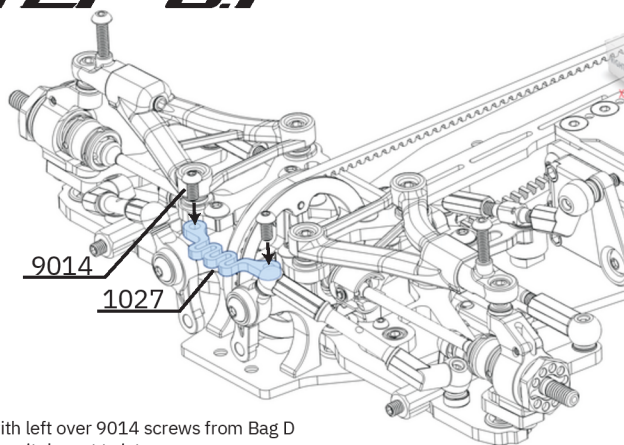
The steering lock is limited by the stopper on the steering bellcrank. With your steering dual rate on 100%, navigate to the steering EPA section on your transmitter. Adjust the end points for both left and right until the stopper just touches, and back it off very slightly until you have a very minimal amount of play in the wheel whilst at full steering lock.

STEP B - BATTERY MOUNTS, BUMPER & FLEX BRACE

BAG G PARTS LIST

SKU	Description	QTY
1018	Front Bumper Mount Plate	1
1023	Battery Holder Spacer	2
1024	Battery Holder (1F & 1R)	1
1025	Battery Swivel Hold Down	2
1027	Med Front Bulkhead Flex Brace	1
1030	Lower Bumper Mount Brace	1
2022H	Battery Post	2
2020H	Rear Body Mount Spacer	2
2057	3x5.5x1.0mm Shim	5
2058	3x5.5x2.0mm Shim	5
2062	M3 Threaded Insert	5
3013	Front Body Post	2
3014	Rear Body Post	2
3022	Front Lower Bumper Mount	1
3023	Rear Bumper	1
7012	Foam Bumper	1
7019	3D Bumper Spacers	2
9018	M3x6mm Button Head	2
9019	M3x8mm Button Head	6
9020	M3x10mm Button Head	2
9022	M3x16mm Button Head	2
9024	M3x6mm Flat Head	1
9025	M3x8mm Flat Head	4

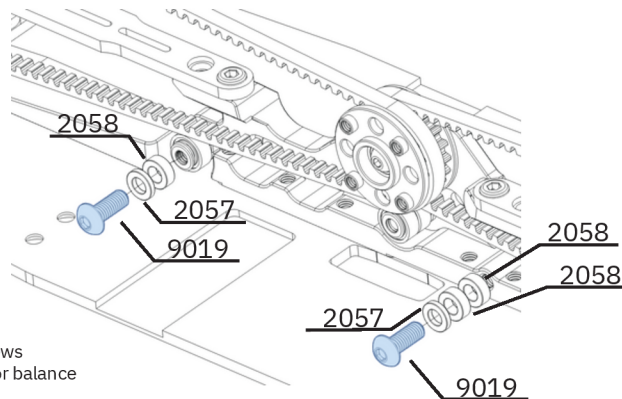
STEP B.1



1. Attach 1027 flex brace onto bulkheads with left over 9014 screws from Bag D
2. Tighten 9014 whilst holding 1027 to ensure it doesn't twist

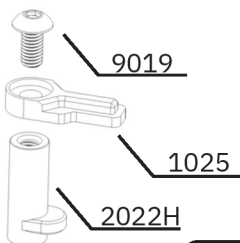
STEP B.2

Tip: The front screw requires 2mm more shims than the rear for the battery to be straight



1. Attach 2057 and 2058 shims with 9019 screws
2. Adjust as necessary for spur clearance and/or balance

STEP B.3

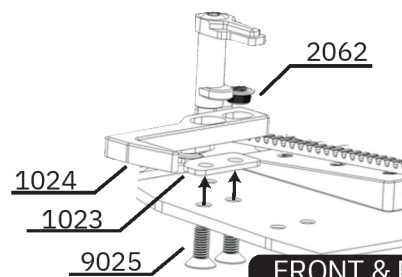


MAKE 2

Initial Height (no shims) = 18mm

1. Attach 1025 to 2022H with 9019 Screw
2. Add shims between 1025 and 2022H to adjust height for different batteries

STEP B.4



FRONT & REAR

1. Attach assembly to chassis with 9025 screws
2. Adjust to battery ensuring some play in all directions
3. Repeat the same steps for front hooks

OPTION PART



5014 - LCG Battery Weight Set (18g each)

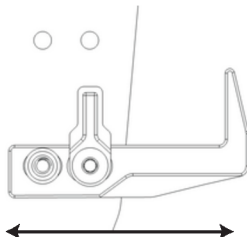
OPTION PART



5016 - Shorty Battery Weight Set (40g each)

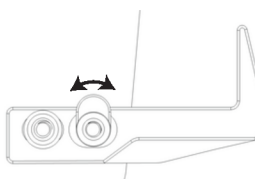
BATTERY ADJUSTMENT

Width adjustment



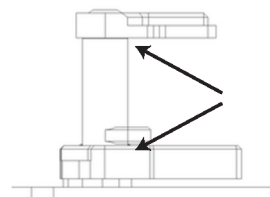
Loosen both lower screws and slide hook left or right

Length adjustment



Loosen outer screw and rotate battery post eccentric (left or right of centre gives the same effect)

Height adjustment



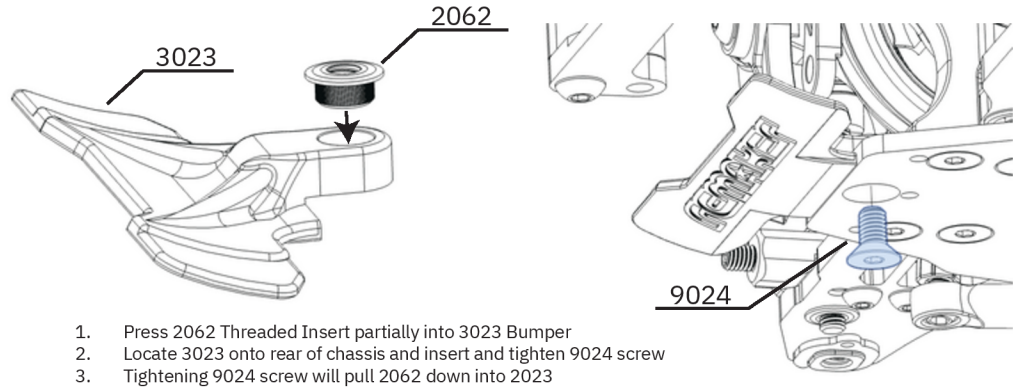
Remove top screw and add shims between swivel and battery post. You can also add the shims between the battery hook and battery post

STEP B - BATTERY MOUNTS, BUMPER & FLEX BRACE

BAG G PARTS LIST

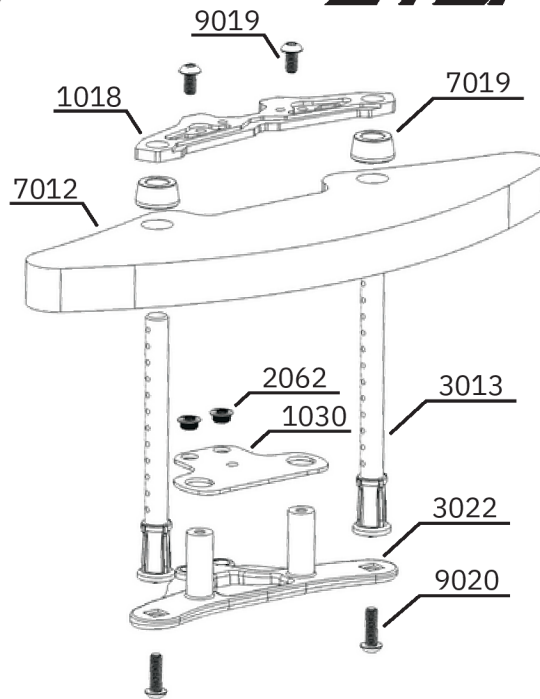
SKU	Description	QTY
1018	Front Bumper Mount Plate	1
1023	Battery Holder Spacer	2
1024	Battery Holder (1F & 1R)	1
1025	Battery Swivel Hold Down	2
1027	Med Front Bulkhead Flex Brace	1
1030	Lower Bumper Mount Brace	1
2022H	Battery Post	2
2040H	Rear Body Mount Spacer	2
2057	3x5.5x1.0mm Shim	5
2058	3x5.5x2.0mm Shim	5
2062	M3 Threaded Insert	5
3013	Front Body Post	2
3014	Rear Body Post	2
3022	Front Lower Bumper Mount	1
3023	Rear Bumper	1
7012	Foam Bumper	1
7019	3D Bumper Spacers	2
9018	M3x6mm Button Head	2
9019	M3x8mm Button Head	6
9020	M3x10mm Button Head	2
9022	M3x16mm Button Head	2
9024	M3x6mm Flat Head	1
9025	M3x8mm Flat Head	4

STEP B.5



1. Press 2062 Threaded Insert partially into 3023 Bumper
2. Locate 3023 onto rear of chassis and insert and tighten 9024 screw
3. Tightening 9024 screw will pull 2062 down into 2023

STEP B.6



Note: 7012 is located in main kit box, not inside Bag G!

OPTION PART



3039 - 3D Pro Hood Support

OPTION PART

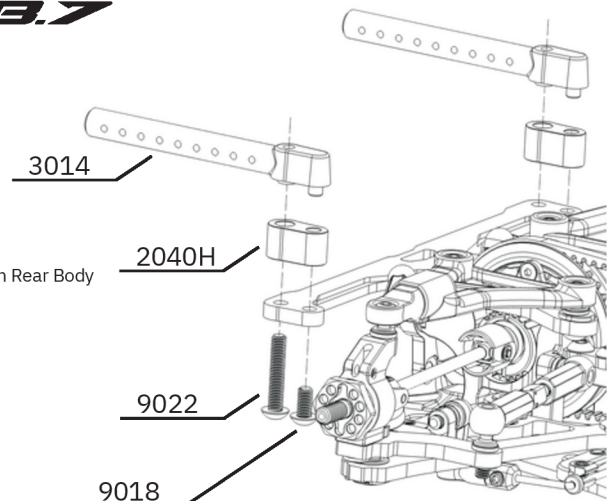


7017 - 3D Pro Honeycomb Bumper

1. Attach 3013 body posts into 3022 bumper with 9020 screws with pin holes parallel to bumper
2. Slide 1030 plate onto 3022 and press 2062 inserts in firmly (don't worry if they don't go all the way)
3. Slide 7012 Foam Bumper down on to 3022 all the way
4. Slide 7019 Bumper Spacers down all the way to the foam bumper
5. Locate 1018 onto body posts and slide all the way down
6. Insert 9019 screws into 3mm holes in 1018 and tighten to pull the assembly together
7. Put the front bumper to the side, we will attach in a later step after the shocks are attached

STEP B.7

1. Align and tighten 2040H onto rear body mount with 9024 screw Insert 9022 Screw through Rear Body
2. Mount and 2040H and tighten 3014 Body Post down onto 2040
3. The body height is adjustable by placing 3x5.5mm shims underneath 2040H

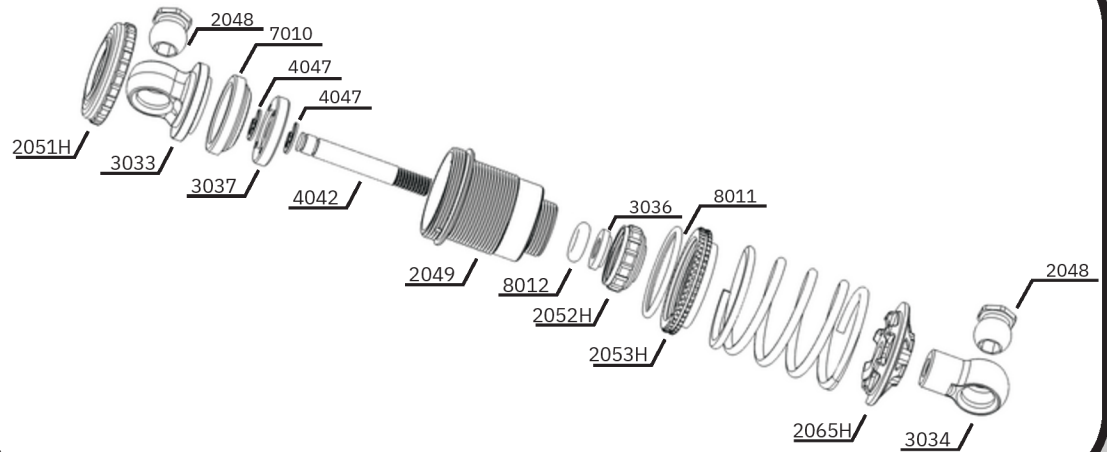


STEP 9 - SHOCKS

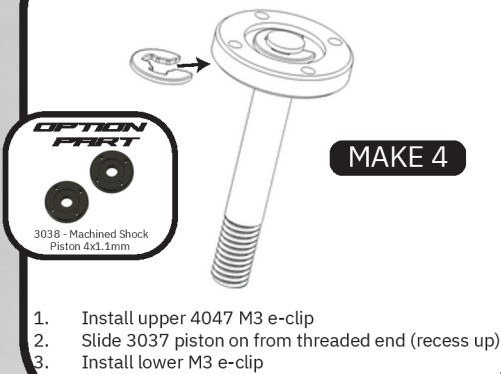
BAG H PARTS LIST

SKU	Description	QTY
2048	5.8mm Alu Shock Ball	8
2049	Linear Shock Body	4
2051H	Shock Top Cap	4
2053H	Shock Collar	4
2065H	Lower Spring Retainer Alu	4
3033	Shock Upper Ball Cup	4
3034	Shock Lower Ball Cup	4
3036	Shock Guide	4
3037	Shock Piston 4x1.1mm	4
4042	Shock Shaft	4
4047	M3 e-Clip	10
7010	Soft Shock Bladder	4
8011	Shock Collar O-Ring	4
8012	Shock Bottom O-Ring	4
11003	Shock Spring Linear C2.1	2
11007	Shock Spring Linear C2.8	2

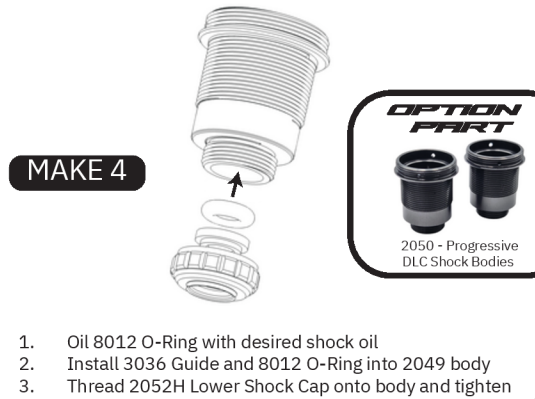
EXPLODED VIEW



STEP 9.1



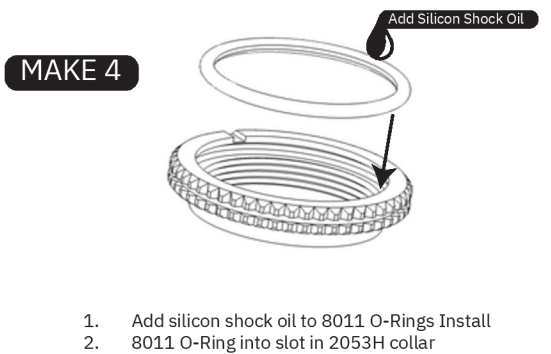
STEP 9.2



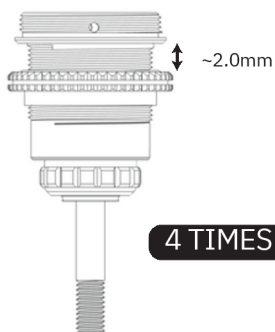
STEP 9.3



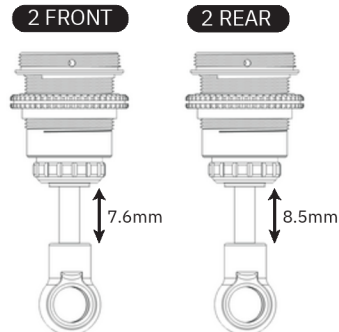
STEP 9.4



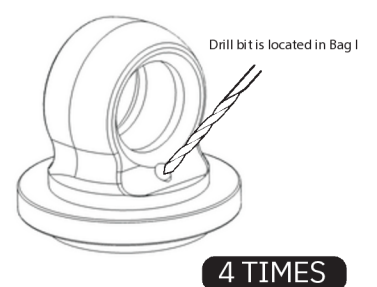
STEP 9.5



STEP 9.6



STEP 9.7



STEP 9 - SHOCKS

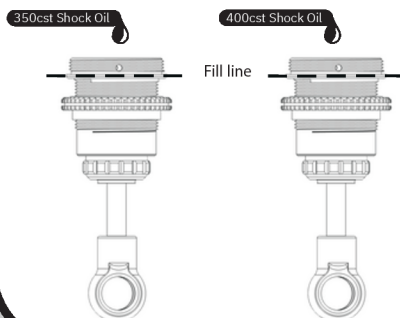
BAG H PARTS LIST

SKU	Description	QTY
2048	5.8mm Alu Shock Ball	8
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4042	Shock Shaft	4
4047	M3 e-Clip	10
7010	Soft Shock Bladder	4
8011	Shock Collar O-Ring	4
8012	Shock Bottom O-Ring	4
11003	Shock Spring Linear C2.1	2
11007	Shock Spring Linear C2.8	2

STEP 9.8

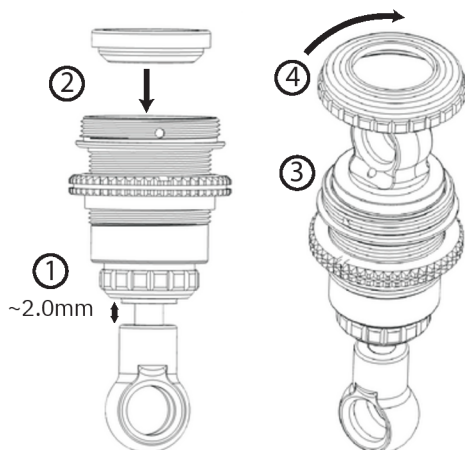
2 FRONT

2 REAR



1. Using a shock stand or vacuum pump, fill shocks up with 350cst front and 400cst rear oil until body ridge
2. Pump piston up and down several times until air is visible in the body, and pull shaft all the way down
3. Set shocks aside or use vacuum pump to remove air

STEP 9.9



1. Push shaft up until 2mm from fully compressed
2. Install and push 7010 bladder down fully into the shock body
3. Install 3033 upper ball cup into bladder and push down lightly
4. Thread on 2051H top cap slowly and tighten while keeping shaft up
5. Ensure smooth feeling without air bubbles
6. If air bubbles are present, refill and repeat bleeding process

STEP 9.10



4 TIMES

1. Using suitable pliers, install 2048 5.8mm balls into cups
2. Ensure the balls are popped in on the shiny side of the cup on both top and bottom

STEP 9.10

4 TIMES

C2.3 FRONT
C2.7 REAR



1. Install correct spring onto front or rear shock
2. Clip 2065H Spring retainer into place

SPI LINEAR SPRING CHART

FRONT	REAR	SOFT
Shock Spring Linear - C2.1		
Shock Spring Linear - C2.2		
Shock Spring Linear - C2.3		
Shock Spring Linear - C2.4		
Shock Spring Linear - C2.5		
Shock Spring Linear - C2.6		
Shock Spring Linear - C2.7		
Shock Spring Linear - C2.8		
		HARD

SPI PROGRESSIVE SPRING CHART

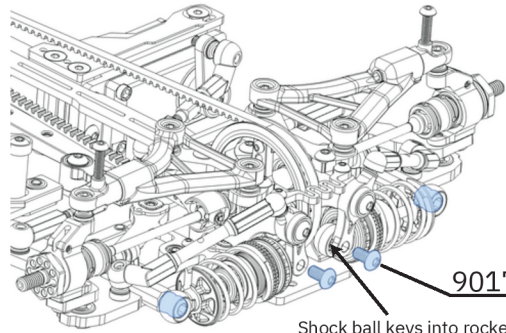
FRONT	REAR	SOFT
Shock Spring Progressive - C2.0-2.3		
Shock Spring Progressive - C2.2-2.5		
Shock Spring Progressive - C2.4-2.7		
Shock Spring Progressive - C2.6-2.9		
		HARD

STEP 10 - FINAL ATTACHMENTS

BAG 1 PARTS LIST

SKU	Description	QTY
2057	3x5.5x1.0mm Shim	1
9013	M2.5 x 4mm Button Head Screw	4
9017	M3 x 5mm Button Head Screw	4
9019	M3 x 8mm Button Head Screw	2
9023	M3 x 5mm Flat Head Screw	1
9024	M3 x 6mm Flat Head Screw	2
13001	1mm Drill Bit	1
13002	Multi Tool	1

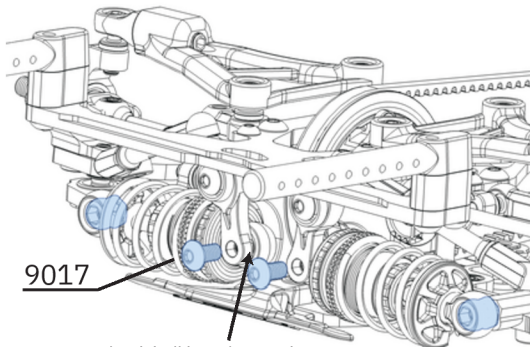
STEP 10.1



1. Attach front shock assemblies to front rockers and arms
2. Use 9017 screws to attach shock top to rockers.
3. Use 3mm hex driver to attach shock bottom to arm

Shock ball keys into rocker arm
to prevent ball spinning when tightening

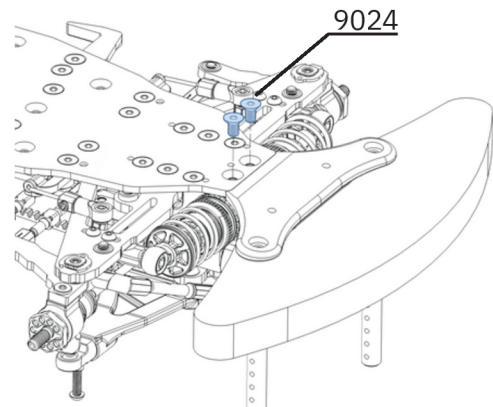
STEP 10.2



Shock ball keys into rocker arm
to prevent ball spinning when tightening

1. Attach rear shock assemblies to rear rockers and arms
2. Use 9017 screws to attach shock top to rockers.
3. Use 3mm hex driver to attach shock bottom to arm

STEP 10.3



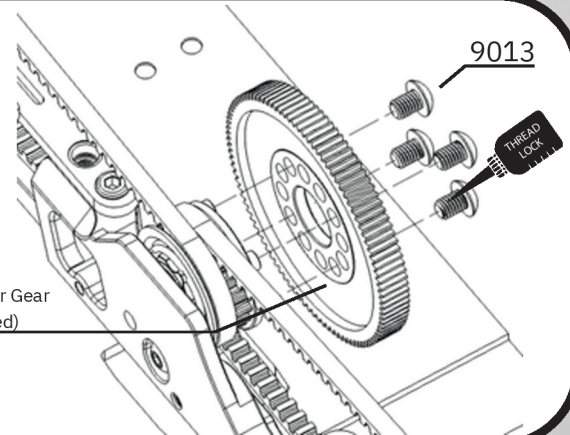
1. Attach front bumper by screwing 9024 screws into bumper

STEP 10.4

Internal Ratio = $38/20 = 1.9$

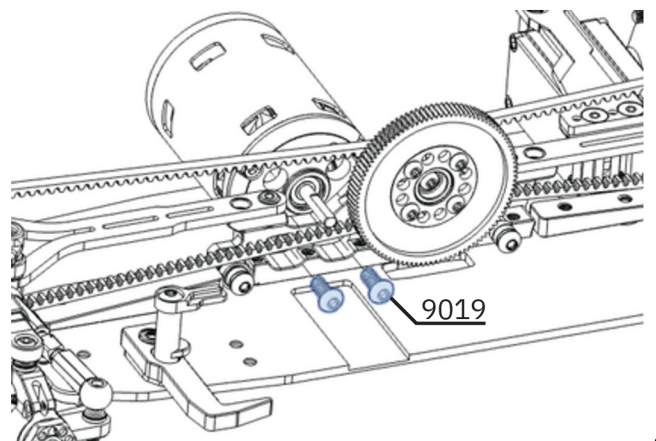
1. Attach spur gear (not included) to layshaft with 4x 9013 screws
2. We suggest using a small amount of loctite on the screws to prevent loosening

64P or 48P Spur Gear
(Not included)



STEP 10.5

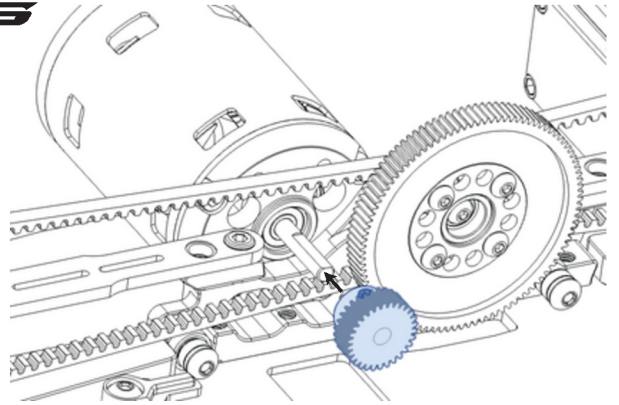
1. Use 2x 9019 Screws to attach motor to motormount
2. Leave them loose until pinion is installed



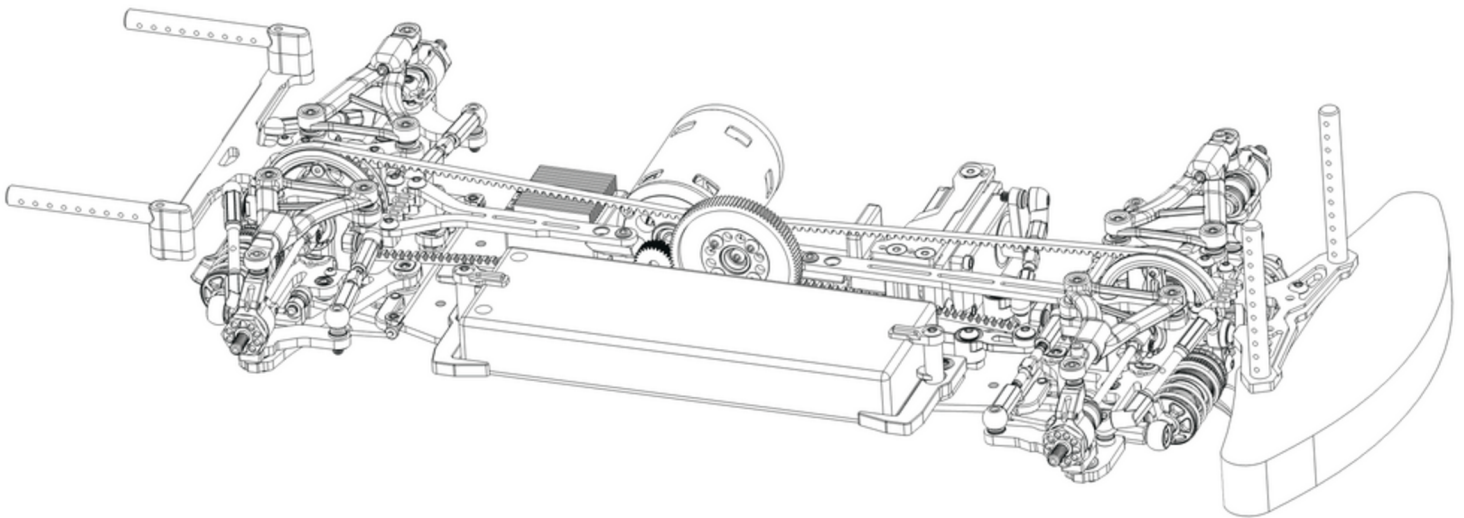
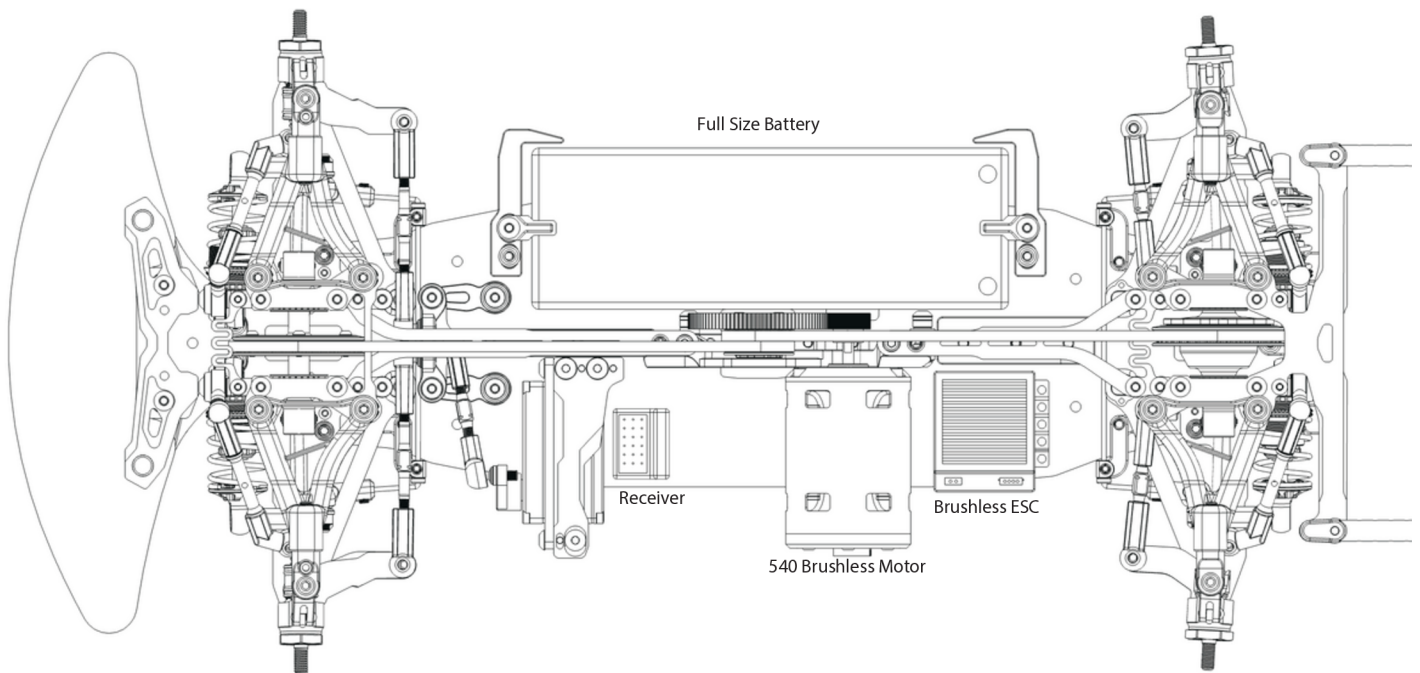
STEP 10 - FINAL ATTACHMENTS

STEP 10.6

1. Install Pinion gear (not included), align with spur gear and tighten to motor
2. Shift motor to correct gear mesh position and tighten 2x 9019 Screws



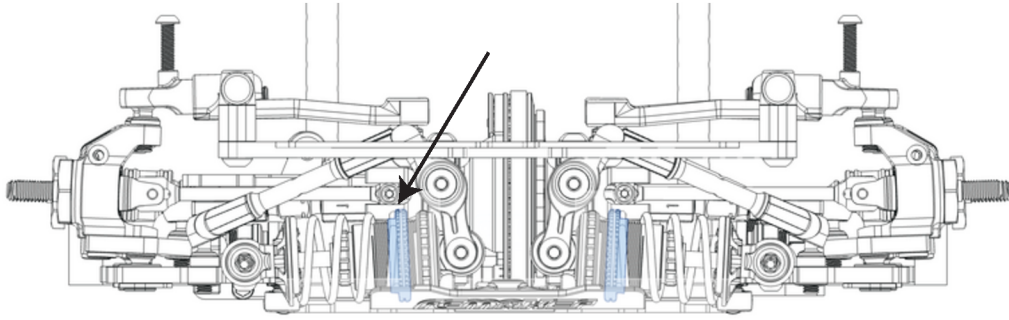
ELECTRONICS PLACEMENT



**CONGRATULATIONS ON YOUR
SPI HARA EDITION "1 OF 100"!**

ADJUSTMENT INFORMATION

RIDE HEIGHT



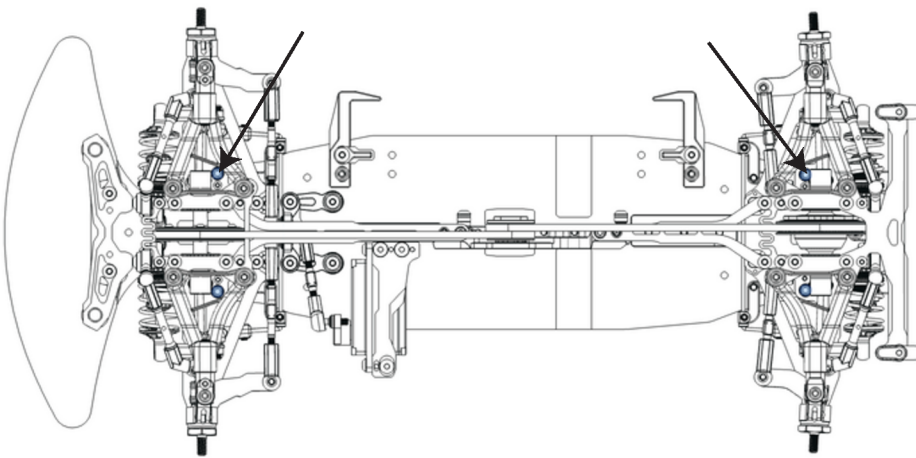
Ride height is adjusted with the shock collars. Screwing the collar down increases the ride height, screwing the collar up reduces the ride height.

Because the shocks are laid down, they need to be adjusted opposite directions to have the same result.

Eg. To increase ride height, the right shock collar needs to be screwed towards you, while the left needs to be screwed away from you.

Whilst confusing at first, this quickly becomes second nature!

DROOP



Droop adjustment is done via the top of the car. Simply use a 2mm hex driver down into the droop screw.

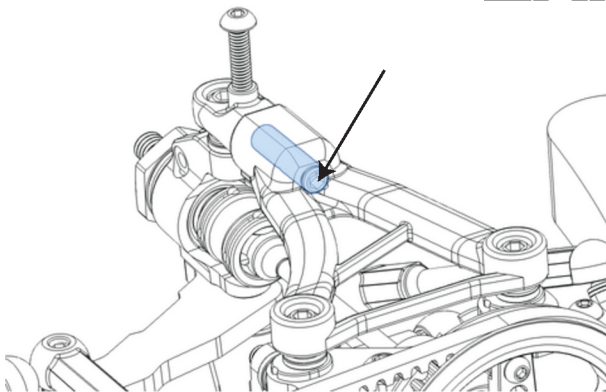
Unscrew = more droop

Screw = less droop

Droop is measured from underneath the most outer part of the suspension arm, or off the axle.

Both methods require 10mm blocks under the chassis.

CAMBER

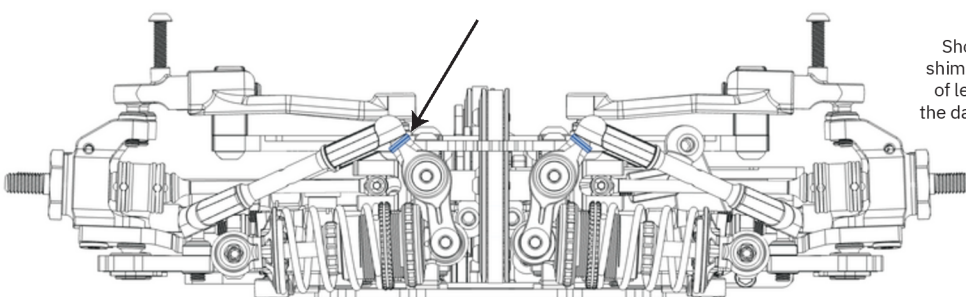


Camber is adjusted simply with a 2mm ball driver or 2mm allen key.

Unscrew = less camber

Screw = more camber

SHOCK RATE



Shock rates can be finely adjusted by adding or removing shims under the top rocker arm link. This adjusts the amount of leverage the arm has over the shock, thus changing both the dampening and spring rate at the same time. This could be equated to laying over or standing up a shock on a conventional touring car.

More shims = more leverage = softer

Less shims = less leverage = harder

**REMAKER****SETUP SHEET**

DRIVER		CLASS		COMPOSITION		TRACK TEMP	
TRACK		RESULT	Q ☐ F ☐	LAYOUT		AIR TEMP	
EVENT		BEST LAP		SURFACE		COMMENTS	
DATE		BEST RUN	☐ LAPS ☐	TRACTION			

TRANSMISSION

FRONT	REAR
SPOOL ☐	DIFF OIL cst
DIFF ☐	
OIL cst	

SPUR ☐ PINION ☐ FDR ☐**SHOCKS**

FRONT	REAR
SPRING	
☐ cst ☐ OIL ☐ wt ☐	☐ cst ☐ wt ☐
☐ MACHINED ☐ PISTON ☐ MACHINED	
☐ HOLE IN CAP ☐ REBOUND ☐ HOLE IN CAP	
☐ PROGRESSIVE ☐ LINEAR ☐ BODY ☐ LINEAR ☐ PROGRESSIVE	
mm LENGTH mm	

TIRES

TIRES	
ADDITIVE	
ADDITIVE TIME	Fr min/Rr min
WARMER TIME	Fr min/Rr min
WARMER TEMP	Fr deg/Rr deg

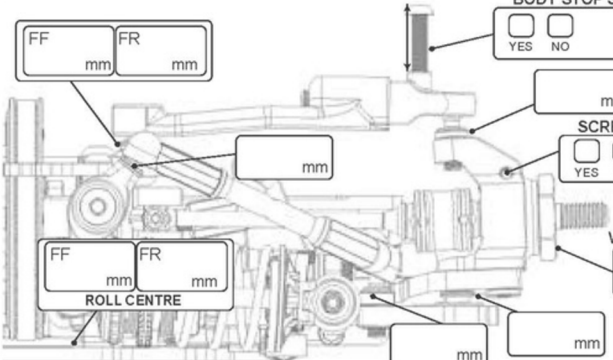
BODY

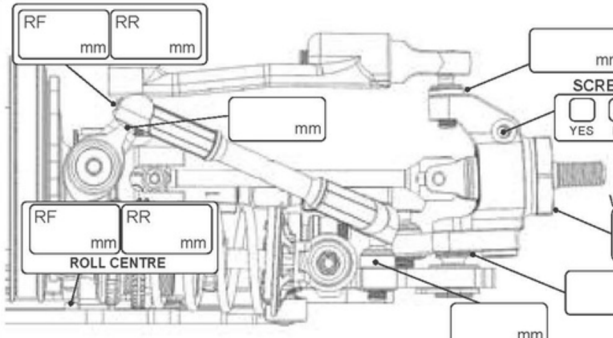
TYPE	
WEIGHT	
WING	
POSITION ☐ WINDSCREEN TO FRONT POST HOLE	HEIGHT ☐ GROUND TO TOP OF REAR WING

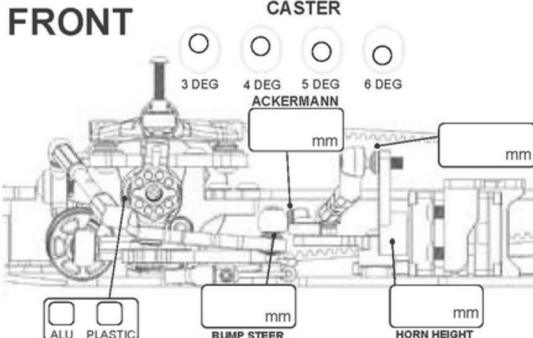
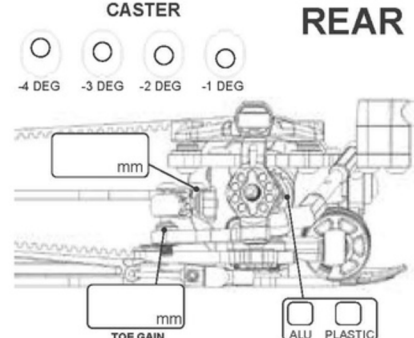
ELECTRONICS

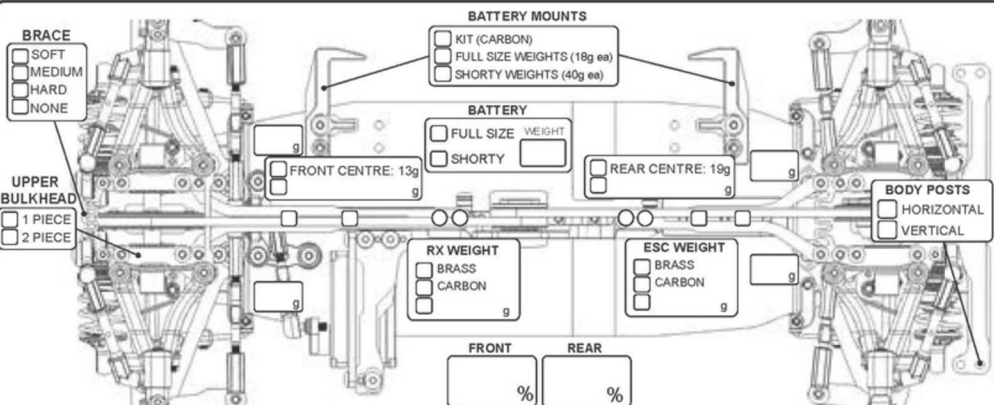
SERVO
ESC
MOTOR
BATTERY

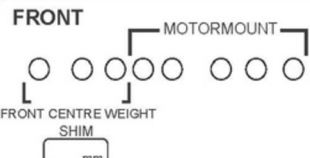
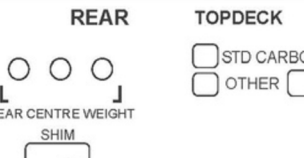
NOTES

	FRONT
FF mm FR mm	CAMBER deg
BODY STOP SCREW ☐ YES ☐ NO mm	TOE OUT deg
SCREW ☐ YES ☐ NO mm	RIDE HEIGHT mm
WHEEL HEX SPACER 3.5 4.0 mm	DROOP mm
ROLL CENTRE mm	DIFF HEIGHT ☐ HIGH ☐ LOW
STEERING ANGLE IN OUT	ANTI-ROLL BAR mm

	REAR
RF mm RR mm	CAMBER deg
SCREW ☐ YES ☐ NO mm	TOE IN deg
WHEEL HEX SPACER 3.5 4.0 mm	RIDE HEIGHT mm
ROLL CENTRE mm	DROOP mm
ANTI-ROLL BAR mm	DIFF HEIGHT ☐ HIGH ☐ LOW

FRONT	CASTER	CASTER	REAR
	3 DEG 4 DEG 5 DEG 6 DEG	-4 DEG -3 DEG -2 DEG -1 DEG	
ALU PLASTIC ECCENTRICS ☐ ☐	ACKERMANN mm	TOE GAIN mm	ALU PLASTIC ECCENTRICS ☐ ☐
BUMP STEER mm			
HORN HEIGHT mm			

	
BRACE ☐ SOFT ☐ MEDIUM ☐ HARD ☐ NONE	BATTERY MOUNTS ☐ KIT (CARBON) ☐ FULL SIZE WEIGHTS (18g ea) ☐ SHORTY WEIGHTS (40g ea)
UPPER BULKHEAD ☐ 1 PIECE ☐ 2 PIECE	BATTERY ☐ FULL SIZE WEIGHT ☐ SHORTY
FRONT CENTRE: 13g	REAR CENTRE: 19g
RX WEIGHT ☐ BRASS ☐ CARBON	ESC WEIGHT ☐ BRASS ☐ CARBON
FRONT %	REAR %
WEIGHT BIAS	

FRONT	REAR	TOPDECK	CHASSIS
		☐ STD CARBON (2.2mm) ☐ OTHER	☐ STD CARBON (2.2mm) ☐ HARD CARBON (2.2mm) ☐ ALUMINIUM (2.0mm) ☐ OTHER
FRONT CENTRE WEIGHT SHIM mm	REAR CENTRE WEIGHT SHIM mm		