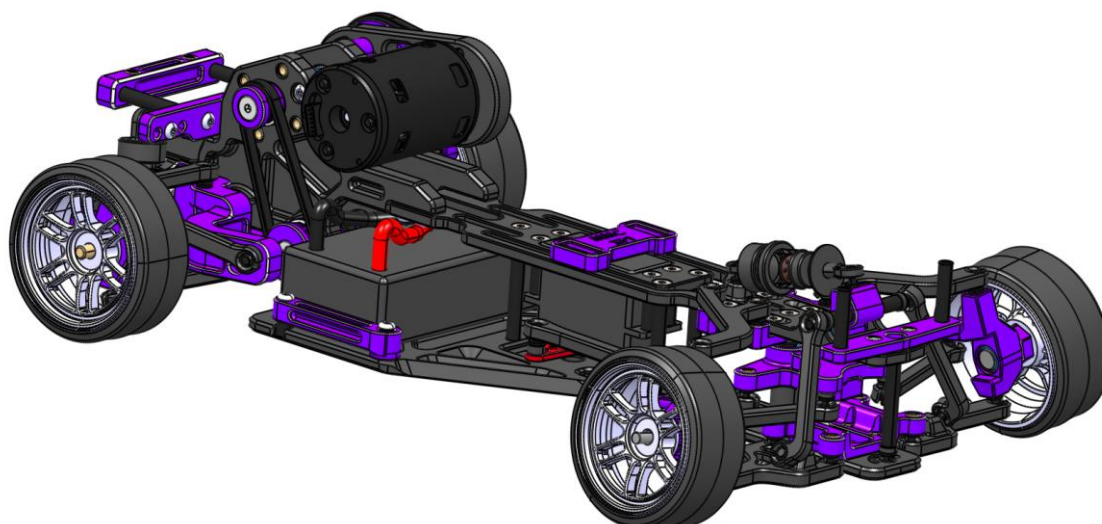




MMC XP1 DRIFT CHASSIS INSTRUCTION MANUAL

	MMC XP1 Drift Chassis manual		
	Version	Description	Author
	1.0	Doc. Creation	MMC
	1.1	Flexing System update	MMC
	1.2	Steering Update + WheelBase fix+ Belts tension fix.	MMC
	1.3	ESC Support and modifications to suit optional parts	MMC
	1.4	Re-designed Balljoints	MMC
	1.5	Compatibility with RDX Spool	MMC
	1.5.1	Added assembly instructions	MMC



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MMC XP1 Drift Chassis manual

1 Summary and license terms

This work is licensed under a private use license that describes as follows:

You are authorized to:

Print and use the 3D prints of the 3D model for private use, in unlimited quantity.

Share the images of your 3D prints of the 3D model on communication media such as social networks or websites.

What is not allowed:

No commercial use or public sharing of the 3D model.

No modification or adaptation of the 3D model for public sharing or sale.

No distribution, sale, donation or exchange of the digital files of the 3D model.



MMC XP1 Drift Chassis manual

2 Bill OF Materials

Bill Of Material: MMC XP1				
N	Quantity	Part Number	Nomenclature	Source
67	1	14T_PINION	Standard 14T pinion (48p)	SHOP
52	1	540_MOTOR	Standard 540 Size Motor	SHOP
5	46	BallJoint_4.8mm	4.8mm BallJoint (6mm thread) (See below recommendations)	SHOP
74	2	BallJoint_5.5mm_Nut	5.5mm BallJoint Nut (Included with Shocks)	SHOP
76	1	Battery	"Shorty" type battery	SHOP
48	9	BB-10X15X4	Ball Bearing - OD: 15mm, ID: 10mm, WIDTH: 4mm	SHOP
30	10	BB-5X9X3	Ball Bearing - OD: 9mm, ID: 5mm, WIDTH: 3mm	SHOP
55	1	Differential	Rhino C-LSD Differential/Yokomo Standard Differential / RDX Spool (NEW!)	SHOP
71	1	HTD3MBELT_50T (diff)	50T HTD3M belt (3 or 4 mm)	SHOP
70	1	HTD3MBELT_50T (red.)	50T HTD3M belt (3 or 4 mm)	SHOP
69	1	HTD3MBELT_54T (motor)	54T HTD3M belt (3 or 4 mm)	SHOP
9	3	ISO10642 M3x10	CounterSunk ISO10642 M3x10 Screw	SHOP
1	23	ISO10642 M3x8	CounterSunk ISO10642 M3x8 Screw	SHOP
62	4	ISO10642 M4x10	ISO10642 M4x10 Countersunk screw	SHOP
87	1	ISO10642 M3X6	ISO10642 M3X6 Countersunk screw	SHOP
31	2	ISO4026-M3x10	M3x10 hexagon socket set screw ISO4026	SHOP
16	10	ISO7380 M3x10	ButtonHead ISO7380 M3x10 Screw	SHOP
53	8	ISO7380 M3x12	ButtonHead ISO7380 M3x12 Screw	SHOP
54	4	ISO7380 M3x20	ButtonHead ISO7380 M3x20 Screw	SHOP
19	13	ISO7380 M3x6	ButtonHead ISO7380 M3x6 Screw	SHOP
25	6	ISO7380 M3x8	ButtonHead M3x8 screw	SHOP
64	1	LHN-45	Long Hex Nut M4 (45mm)	SHOP
58	1	LHN-60	Long Hex Nut M4 (60mm)	SHOP
17	6	RN-10	Round Nut M3 (10mm)	SHOP
12	4	RN-15	Round Nut M3 (15mm)	SHOP
11	4	RN-20	Round Nut M3 (20mm)	SHOP
8	2	RN-30	Round Nut M3 (30mm)	SHOP
23	5	RN-35	Round Nut M3 (35mm)	SHOP
44	4	RPF1_Wheel	26mm Wheel (Enkei RPF1 replica)	3DPRINT (COLOR)
13	1	Servo	Low Profile type Servo	SHOP
36	1	ServoHorn	Standard Servo Horn (Metal)	SHOP
33	3	Shock_Bottom	Shock Absorbers (Bottom Part)	SHOP
32	3	Shock_Top	Shock Absorber (Top Part)	SHOP
22	6	SPCR_2MM	2mm Spacer	3DPRINT (BLACK)
37	3	SPCR-3MM	3mm Spacer	3DPRINT (BLACK)
4	20	TI-4	Brass Threaded Insert (M3x4x4,5)	SHOP
3	65	TI-6	Brass Threaded Insert (M3x6x4,5)	SHOP



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43	4	WHEEL_HEX	Wheel Hexagon	SHOP
7	1	XP1-001	Lower Deck	3DPRINT (BLACK)
2	1	XP1-002	Front Subframe	3DPRINT (COLOR)
6	1	XP1-003-1	Front LCA Left	3DPRINT (BLACK)
35	1	XP1-003-2	Front LCA Right	3DPRINT (BLACK)
10	1	XP1-004	Upper Deck	3DPRINT (BLACK)
27	1	XP1-005	Front UCA and Caster Adjustability Support	3DPRINT (COLOR)
28	2	XP1-006	Front UCA Right and Left	3DPRINT (BLACK)
29	1	XP1-007	Front Suspension Rocker Arm	3DPRINT (COLOR)
34	2	XP1-008	Front Fixed-length Push-rod	3DPRINT (BLACK)
38	1	XP1-009	Steering Lever Arm	3DPRINT (COLOR)
39	1	XP1-010	Steering Whipper	3DPRINT (COLOR)
40	1	XP1-011	Servo Fixed-length Actuator	3DPRINT (BLACK)
14	1	XP1-012	Steering Lower Spacer	3DPRINT (BLACK)
15	1	XP1-013	Steering Upper Spacer	3DPRINT (BLACK)
41	1	XP1-014-1	Front Knuckle Right	3DPRINT (COLOR)
45	1	XP1-014-2	Front Knuckle Left	3DPRINT (COLOR)
46	2	XP1-015	Fixed-length Steering Rods	3DPRINT (BLACK)
47	1	XP1-016-1	Rear Bulk-head Right	3DPRINT (BLACK)
49	1	XP1-016-2	Rear Bulk-head Left	3DPRINT (BLACK)
50	1	XP1-017	Motor Support Spacer	3DPRINT (COLOR)
51	1	XP1-018	Adjustable Motor Support	3DPRINT (BLACK)
56	1	XP1-019	3BT Belt Conversion for Rhino C-LSD / YD2 Diff	3DPRINT (COLOR)
57	2	XP1-020	Diff Spacers	3DPRINT (COLOR)
59	1	XP1-021	14T Belt Pulley	3DPRINT (COLOR)
60	1	XP1-022	Main Shaft Cover	3DPRINT (COLOR)
61	1	XP1-023	3BT Belt Pulley First Stage	3DPRINT (COLOR)
63	1	XP1-025	20T Belt Pulley	3DPRINT (COLOR)
65	1	XP1-026	Secondary Shaft End Cap	3DPRINT (COLOR)
66	1	XP1-028	14T Belt Pulley	3DPRINT (COLOR)
68	1	XP1-030	Press-fitted 14T Pinion to 14T Belt Pulley Adapter	3DPRINT (COLOR)
18	1	XP1-031-1	Battery Support Right	3DPRINT (COLOR)
20	1	XP1-031-2	Battery Support Left	3DPRINT (COLOR)
72	1	XP1-032	Rear Subframe	3DPRINT (COLOR)
77	1	XP1-033-1	Rear Knuckle Right	3DPRINT (COLOR)
81	1	XP1-033-2	Rear Knuckle Left	3DPRINT (COLOR)
78	1	XP1-034-1	Rear LCA Right	3DPRINT (BLACK)
82	1	XP1-034-2	Rear LCA Left	3DPRINT (BLACK)
73	1	XP1-035	Rear Suspension Support	3DPRINT (COLOR)
21	2	XP1-036	Front Suspension Spacer	3DPRINT (COLOR)
75	1	XP1-037	Rear Magnet Support	3DPRINT (COLOR)
83	2	XP1-038	Rear Active Toe Fixed-length Arm	3DPRINT (BLACK)

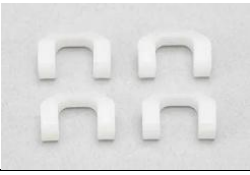


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84	2	XP1-039	Rear Traction Fixed-length Arm	3DPRINT (BLACK)
85	2	XP1-040	Rear Camber Fixed-length Arm	3DPRINT (BLACK)
24	1	XP1-041	Body post front magnet support	3DPRINT (COLOR)
26	1	XP1-042	Flex plate	3DPRINT (COLOR)
87	1	XP1-043	ESC Support	3DPRINT (BLACK)
80	2	YOKOMO_47MMAXLE_1	47mm Yokomo Rear Axle	SHOP
79	2	YOKOMO_47MMAXLE_2	Yokomo 47mm Rear Axle	SHOP
42	2	YOKOMO_FRONTAXLE	Yokomo Simple Front Axle	SHOP

** Turnbuckle lengths depend on what balljoint lengths are used. Check the standard arm lengths as reference.

2.1 Recommended parts for XP1 Chassis

	Aluminium Balljoints
	Rhino C-LSD / YD2 DIFF Or RDX SPOOL
	Basic low-profile servo (180 degrees)
	55mm Dampers
	Yokomo 47mm Rear Axles Yokomo Front Axle
	DIFF Protections (If not included with diff or axles)



MMC XP1 Drift Chassis manual

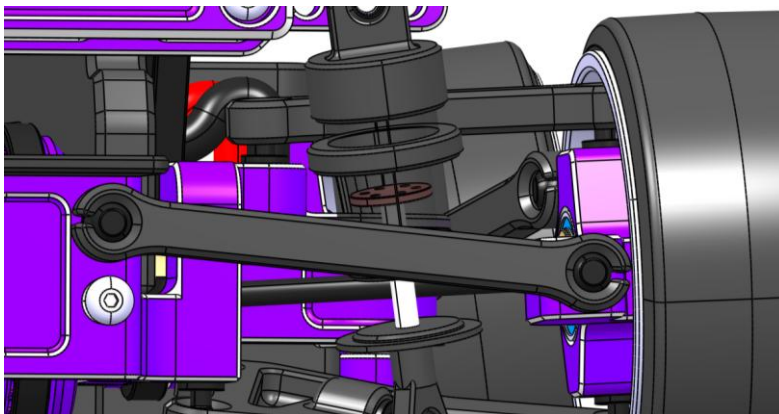
Aluminum round standoff spacer  M3 ,OD=5mm L=4mm-100mm 	Round Nuts (Standoffs) Long Hex Nuts (Standoffs)
 HTD 3M Timing Belt 3M Belt Width:4/5/6/8/9/10mm Belt Length:99mm-225mm	HTD3M Belts

3 Design annotations

3.1 Control arms lengths (As Reference)

This chassis comes with printable control arms. All of them can be swapped for the conventional turnbuckles.

The idea behind this is to reduce costs and give the user a good starting point for the alignment.



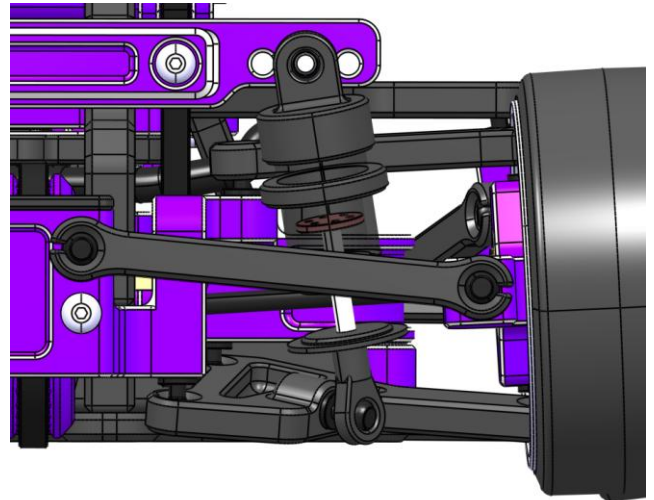
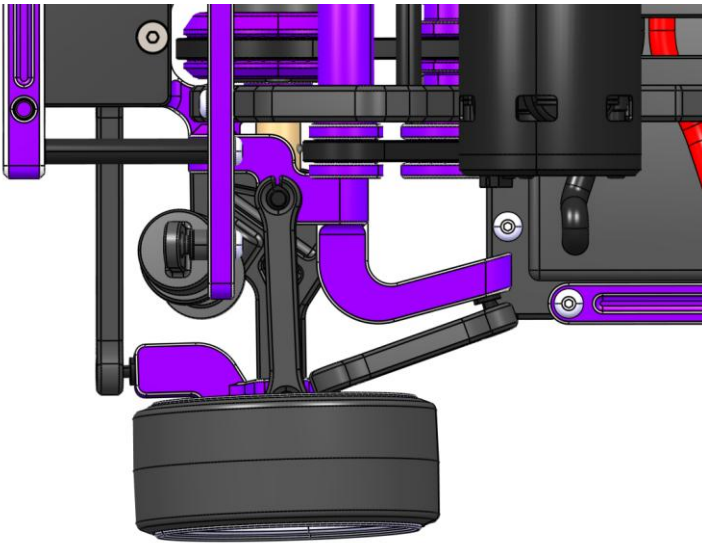
3.1.1 Rear suspension

The rear suspension is a multi-link type of suspension, it may be one of the most efficient suspension systems out there. The main advantage of this suspension is the infinite amount of adjustment when the fixed-length rods are swapped for turnbuckles.

Although the standard alignment already gives an incredible amount of grip!



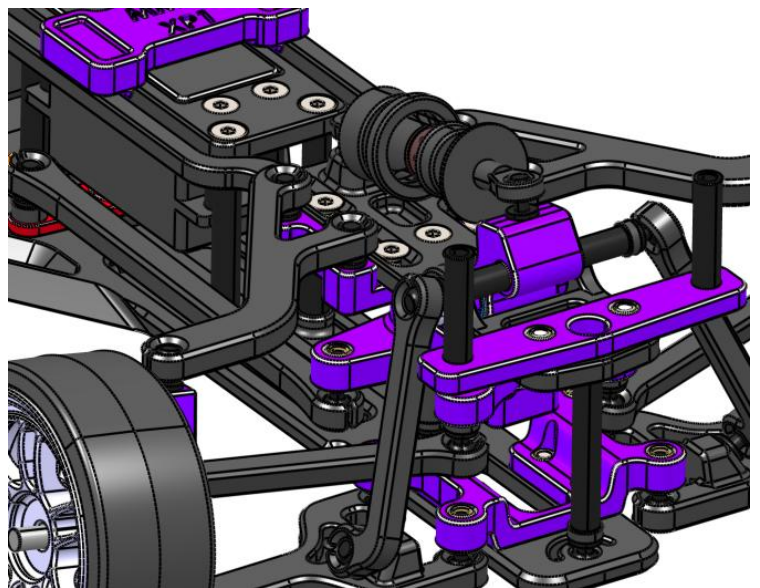
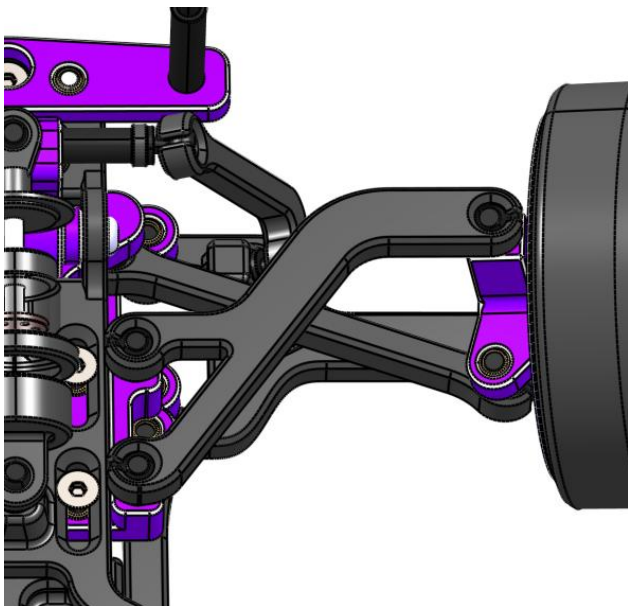
MMC XP1 Drift Chassis manual



3.1.2 Front Suspension

The front suspension is a standard double wishbone setup. For the standard version, there's no adjustment in camber or track width. There are a few optional parts on the way to purchase.

The main feature of this suspension setup is the mono-shock design. This type of setup stiffens up the roll allowance of the front of the chassis, acting as a sway bar. It is translated to enhanced grip at the front. The more roll is allowed at the rear, the greater the front grip will be.

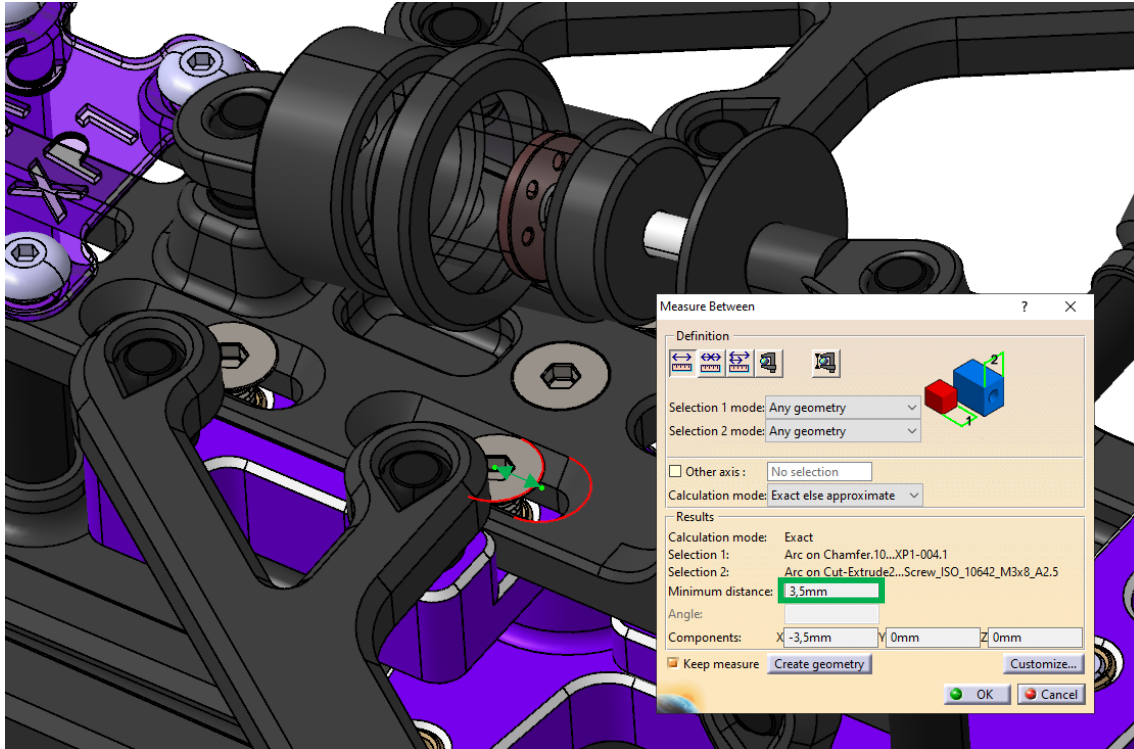




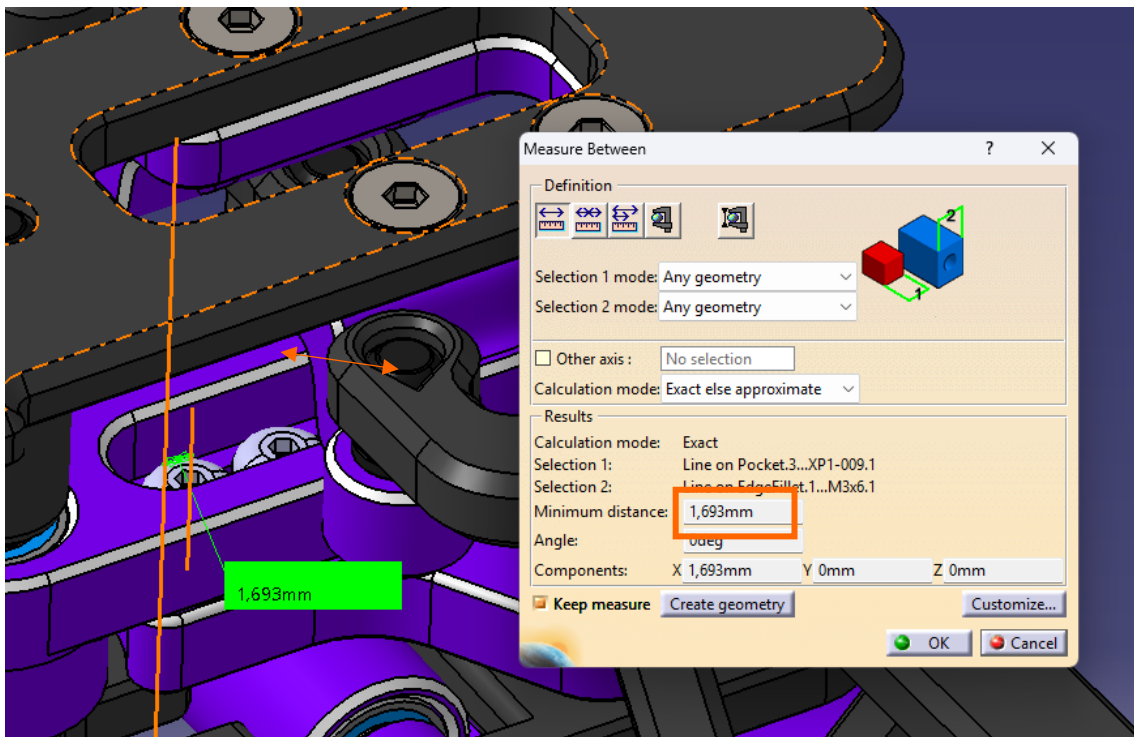
MMC XP1 Drift Chassis manual

3.1.3 Caster and Ackerman positions

Reference configuration for caster:



Reference position for Ackerman (-1,5 – 2mm from maximum):



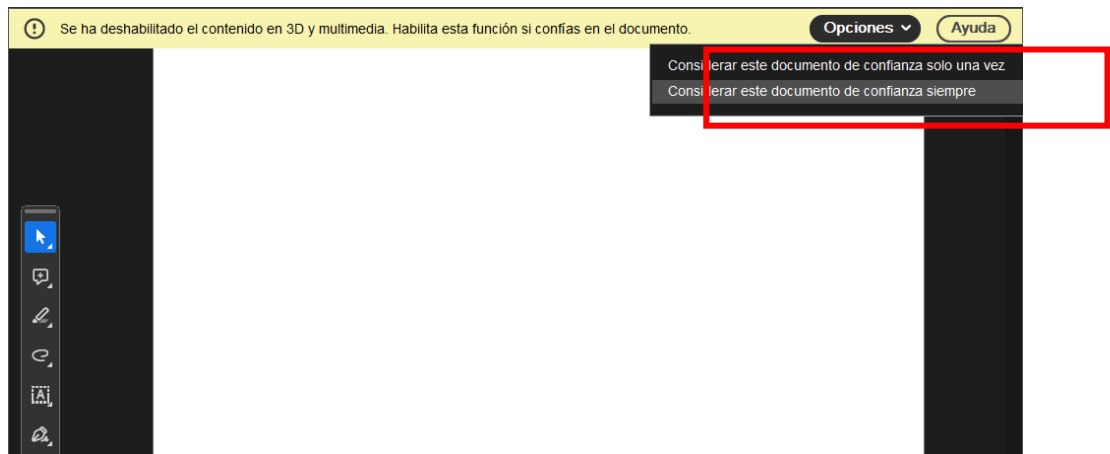


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4 3D of the chassis for assembly

In the ZIP file there's a 3DPDF view to interact with and see the chassis assembly and it's components. Follow the instructions below:

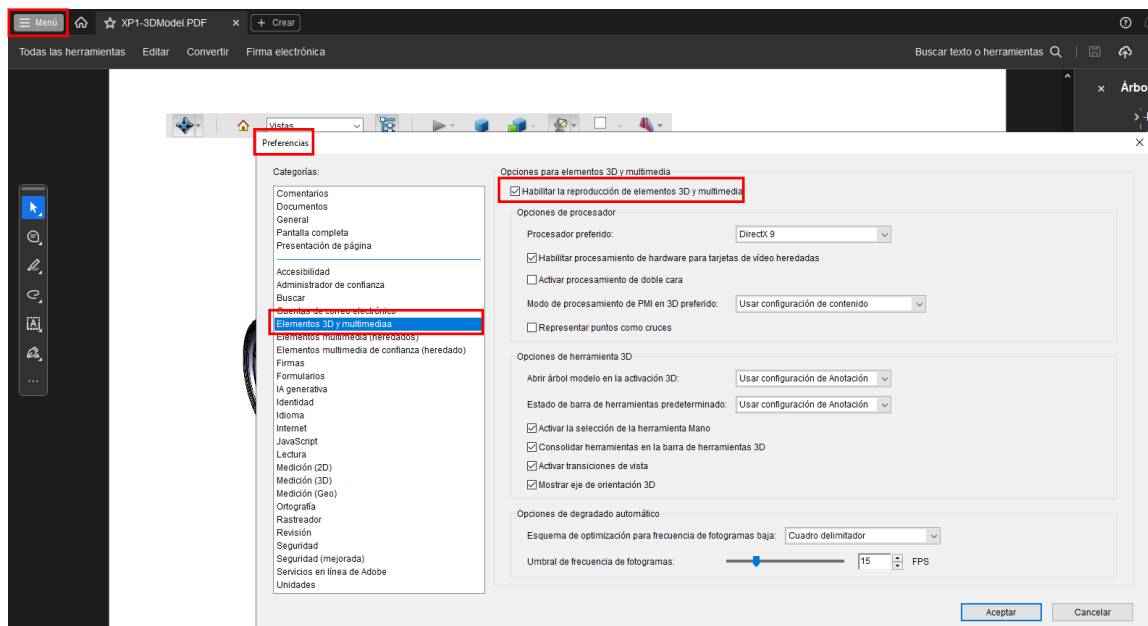
1. When scrolling down the last page, it will appear as a blank page, but you will see that you can click on an option button with two options. Click on any of the options:



2. After this, click on the white page when the hand mouse icon appears, and the 3D viewer will load.

If this doesn't work, do the following:

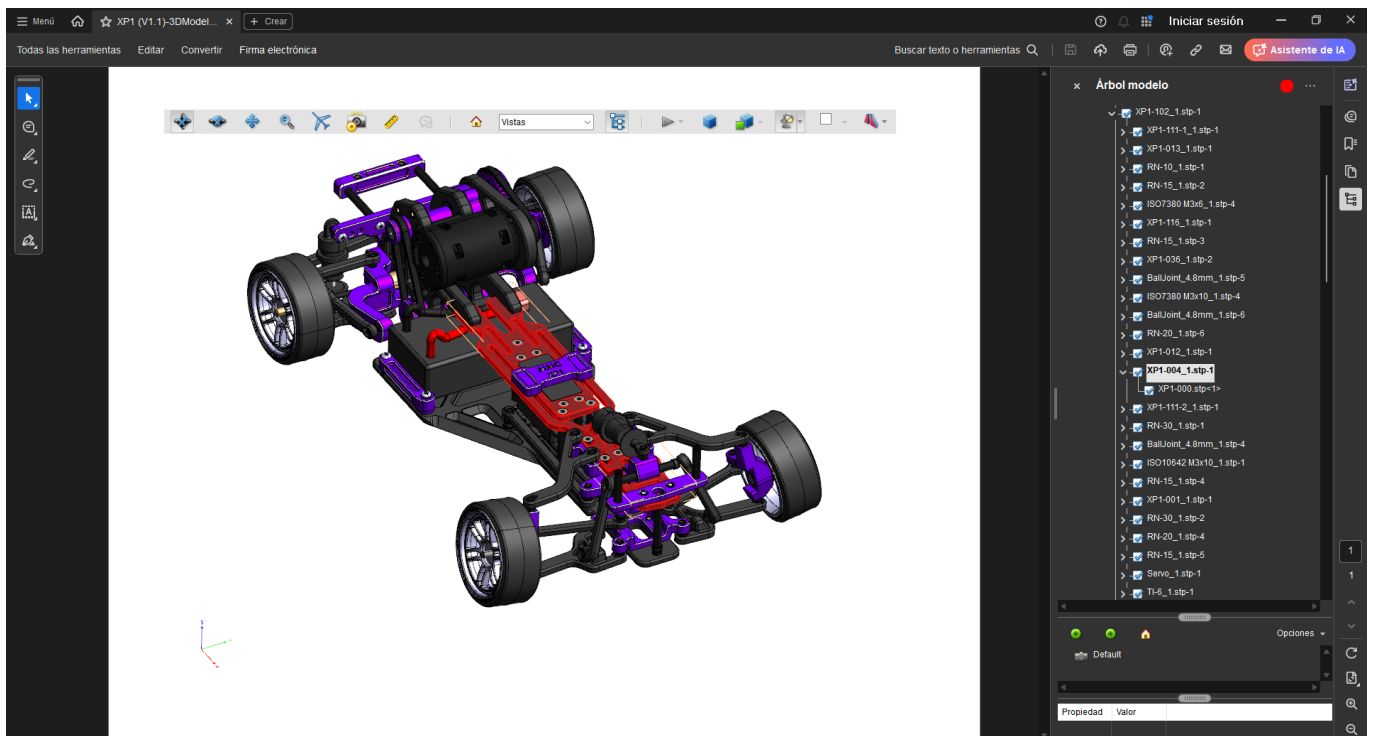
- Go to preferences of your Adobe Acrobat application.
- Go to 3D and multimedia elements
- Enable 3D and multimedia playback
- Close the Application and open again the file.





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3. Use the Assembly Tree to navigate through the components and hide/show them. Use the left mouse button to rotate, Ctrl+ left mouse button to pan and right mouse button to zoom in/out.
4. The components get highlighted on the 3D view when selected on the Tree and viceversa.
5. ENJOY!

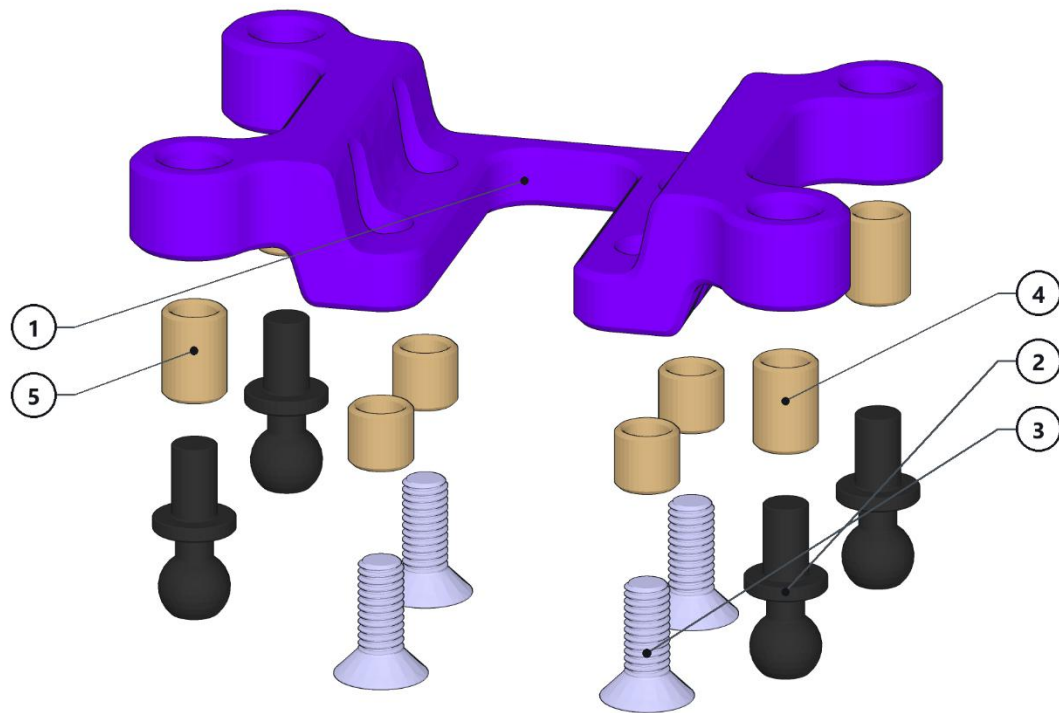




5 Assembly instructions

Step 1 — Sub-assembly XP1-002

Front Subframe — 17 parts

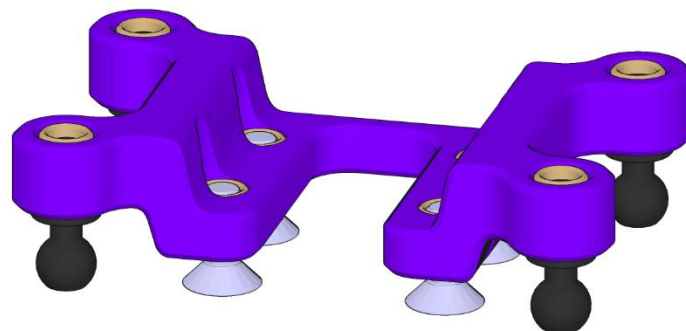


Assembly notes

- 1 Install the threaded inserts and the ballstuds.
- 2 Leave the screws attached for final assembly.

- | | |
|--|---|
| 1 XP1-002 x1 — Front Subframe | 2 BallJoint_4.8mm x4 — 4.8mm BallJoint (6mm thread) |
| 3 Screw_ISO_10642_M3x8_A2 x4 | 4 TI-6 x3 — Brass Threaded Insert (M3x6x4,5) |
| 5 TI-4 x5 — Brass Threaded Insert (M3x4x4,5) | |

Assembled

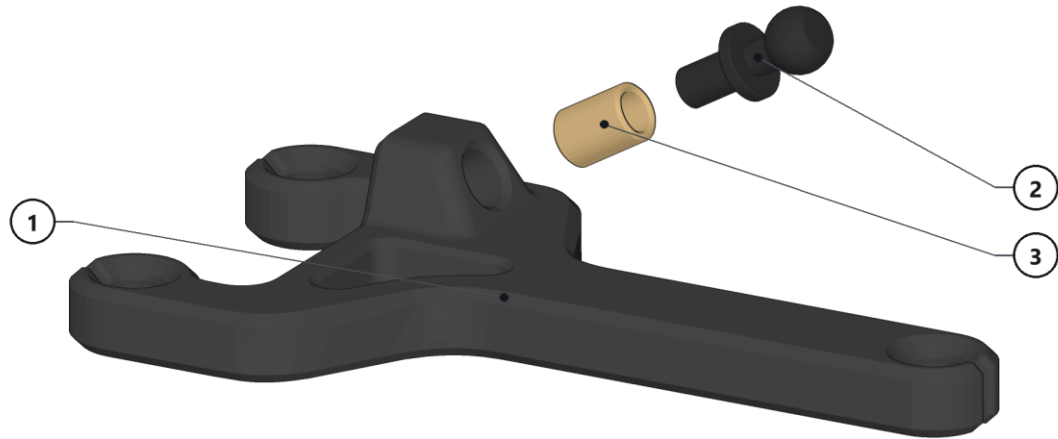




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Step 2 — Sub-assembly XP1-101

3 parts

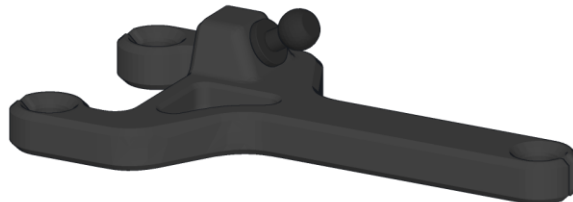


Assembly notes

- 1 Install threaded insert and ballstud.

- | | |
|--|---|
| 1 XP1-003 x1 | 2 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread) |
| 3 TI-6 x1 — Brass Threaded Insert (M3x6x4,5) | |

Assembled

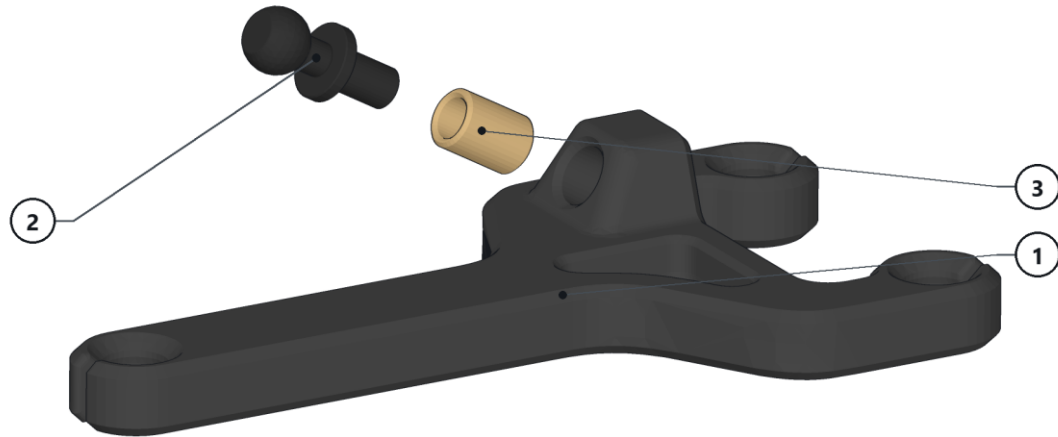




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Step 3 — Sub-assembly XP1-101-2

3 parts



Assembly notes

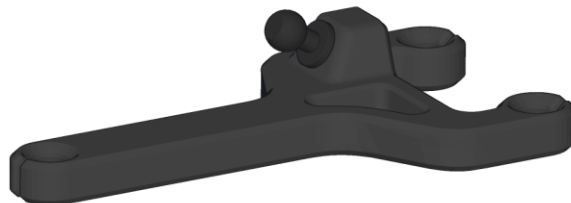
- 1 Install threaded insert and ballstud.

1 XP1-003-2 x1 — Front LCA Right

2 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread)

3 TI-6 x1 — Brass Threaded Insert (M3x6x4,5)

Assembled

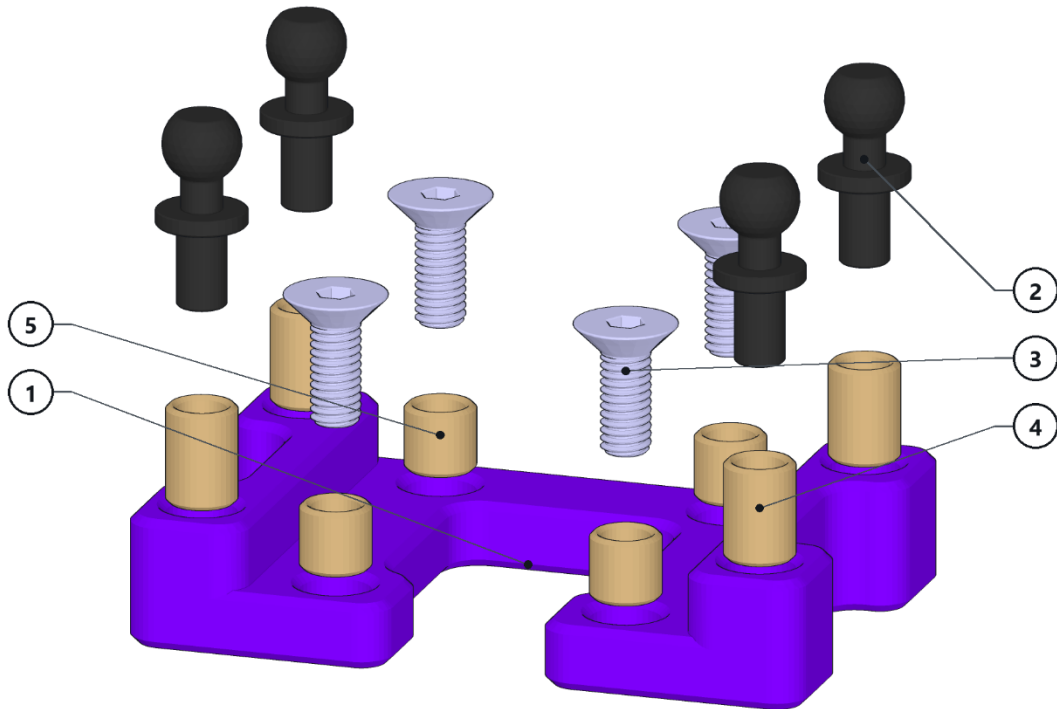




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Step 4 — Sub-assembly XP1-103

17 parts

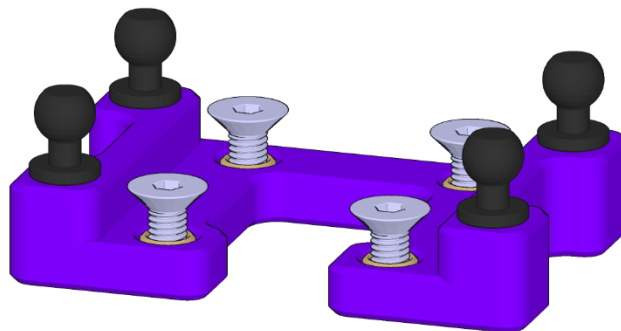


Assembly notes

- 1 Install the threaded inserts and the ballstuds.
- 2 Leave the screws attached for final assembly.

- | | |
|---|---|
| 1 XP1-005 x1 — Front UCA and Caster Adjustability Su... | 2 BallJoint_4.8mm x4 — 4.8mm BallJoint (6mm thread) |
| 3 Screw_ISO_10642_M3x8_A2 x4 | 4 TI-6 x4 — Brass Threaded Insert (M3x6x4,5) |
| 5 TI-4 x4 — Brass Threaded Insert (M3x4x4,5) | |

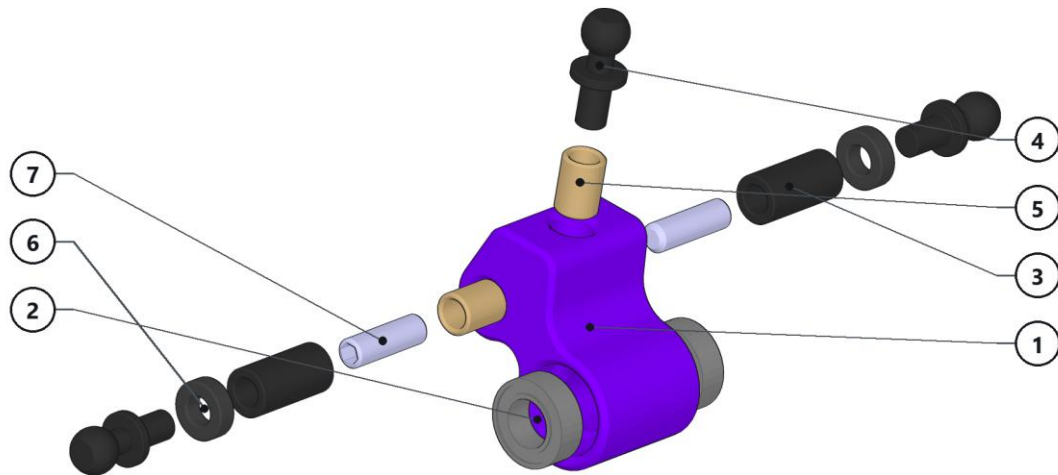
Assembled



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Step 5 — Sub-assembly XP1-104

15 parts

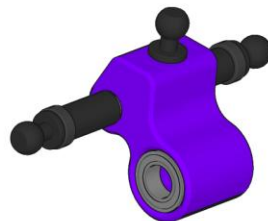


Assembly notes

- 1 install the threaded inserts.
- 2 Screw in the worm screw and round nuts.
- 3 Finally, install the ballstuds and bearings.

- | | | | |
|---|---|---|---|
| 1 | XP1-007 x1 — Front Suspension Rocker Arm | 2 | BB-5X9X4 x2 |
| 3 | FR-10 x2 | 4 | BallJoint_4.8mm x3 — 4.8mm BallJoint (6mm thread) |
| 5 | TI-6 x3 — Brass Threaded Insert (M3x6x4,5) | 6 | SPCR_2MM x2 — 2mm Spacer |
| 7 | ISO4026-M3x10 x2 — M3x10 hexagon socket set scre... | | |

Assembled

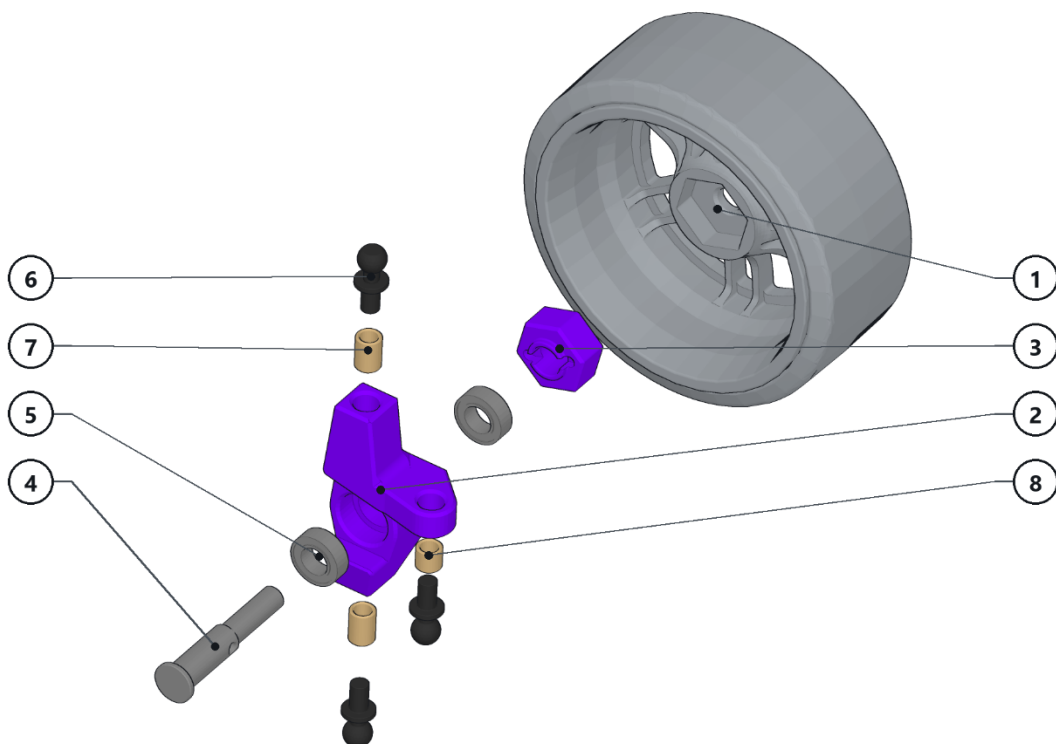




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Step 6 — Sub-assembly XP1-106-1

12 parts

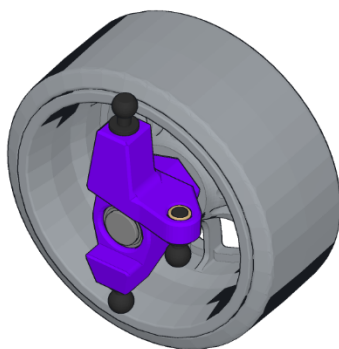


Assembly notes

- 1 Install the threaded inserts and the ballstuds.
- 2 Install the bearings.
- 3 Optionally install now the Yokomo axle and the wheel.

- | | |
|---|---|
| 1 RPF1_Wheel x1 — 26mm Wheel (Enkei RPF1 replica) | 2 XP1-014-1 x1 — Front Knuckle Right |
| 3 WHEEL_HEX x1 — Wheel Hexagon | 4 Yokomo_FrontAxle x1 |
| 5 BB-5X9X4 x2 | 6 BallJoint_4.8mm x3 — 4.8mm BallJoint (6mm thread) |
| 7 TI-6 x2 — Brass Threaded Insert (M3x6x4,5) | 8 TI-4 x1 — Brass Threaded Insert (M3x4x4,5) |

Assembled

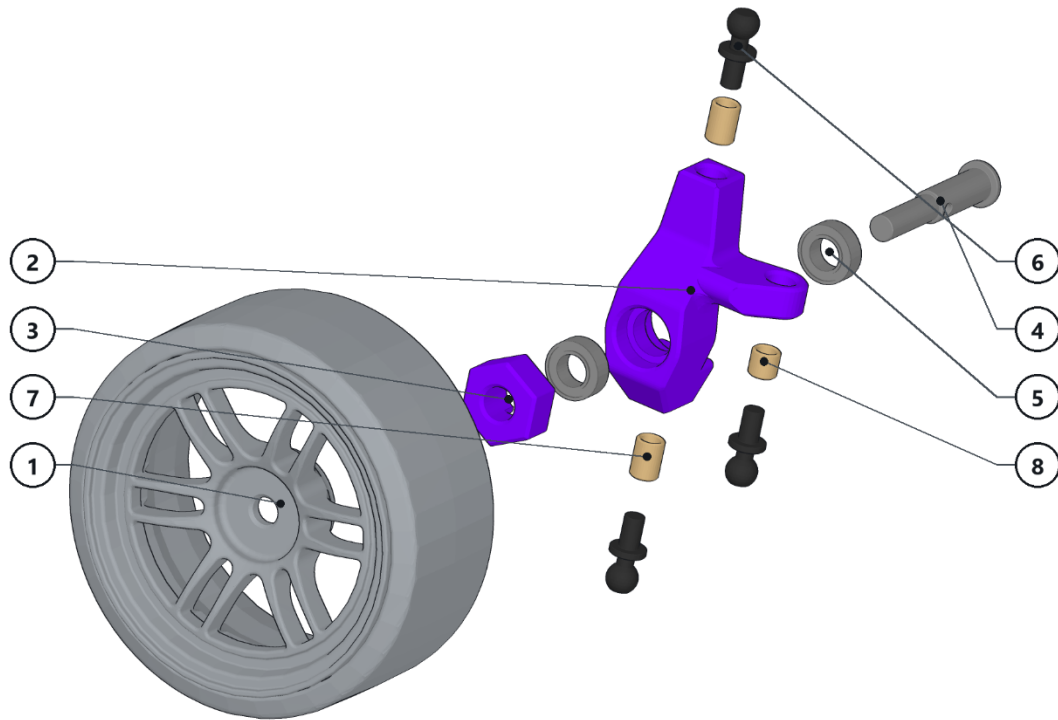




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Step 7 — Sub-assembly XP1-106-2

12 parts

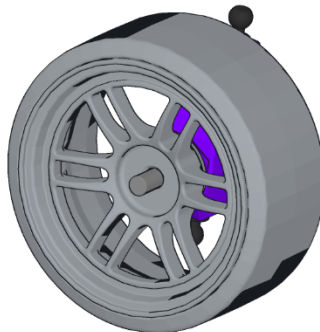


Assembly notes

- 1 Install the threaded inserts and the ballstuds.
- 2 Install the bearings.
- 3 Optionally install now the Yokomo axle and the wheel.

- | | |
|---|---|
| 1 RPF1_Wheel x1 — 26mm Wheel (Enkei RPF1 replica) | 2 XP1-014-2 x1 — Front Knuckle Left |
| 3 WHEEL_HEX x1 — Wheel Hexagon | 4 Yokomo_FrontAxle x1 |
| 5 BB-5X9X4 x2 | 6 BallJoint_4.8mm x3 — 4.8mm BallJoint (6mm thread) |
| 7 TI-6 x2 — Brass Threaded Insert (M3x6x4,5) | 8 TI-4 x1 — Brass Threaded Insert (M3x4x4,5) |

Assembled

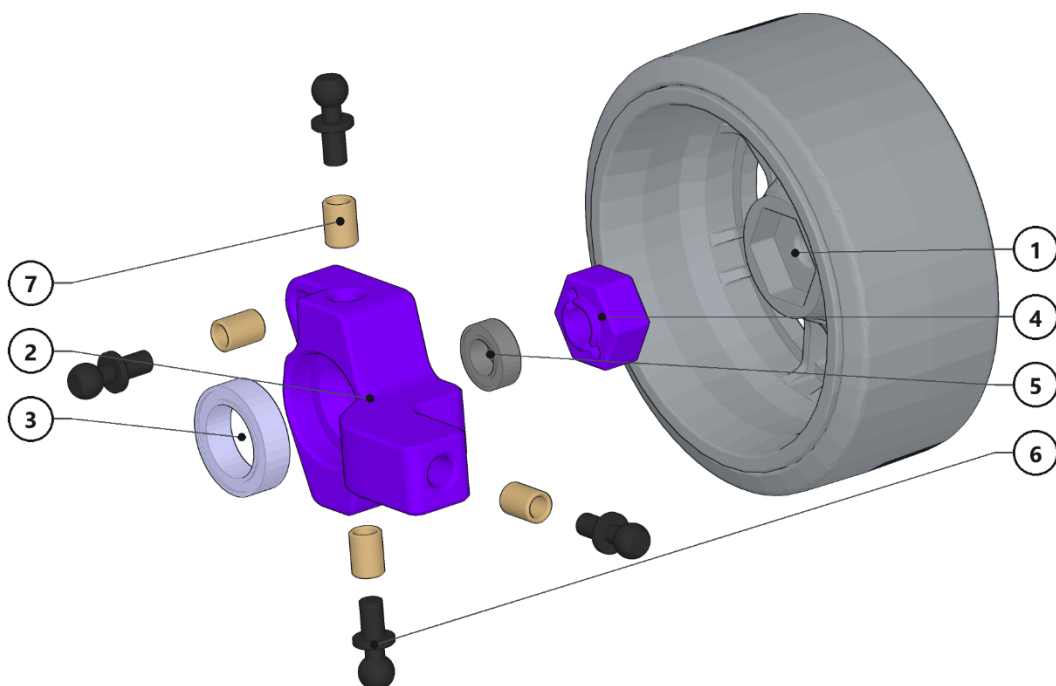




MMC XP1 Drift Chassis manual

Step 8 — Sub-assembly XP1-113-1

13 parts

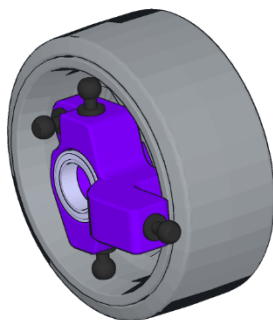


Assembly notes

- 1 Install the threaded inserts and the ballstuds.
- 2 Install the bearings.
- 3 Optionally install now the Yokomo axle and the wheel.

- | | |
|--|---|
| 1 RPF1_Wheel x1 — 26mm Wheel (Enkei RPF1 replica) | 2 XP1-033-1 x1 — Rear Knuckle Right |
| 3 BB-10X15X5 x1 | 4 WHEEL_HEX x1 — Wheel Hexagon |
| 5 BB-5X9X3 x1 — Ball Bearing - OD: 9mm, ID: 5mm, WL... | 6 BallJoint_4.8mm x4 — 4.8mm BallJoint (6mm thread) |
| 7 TI-6 x4 — Brass Threaded Insert (M3x6x4,5) | |

Assembled

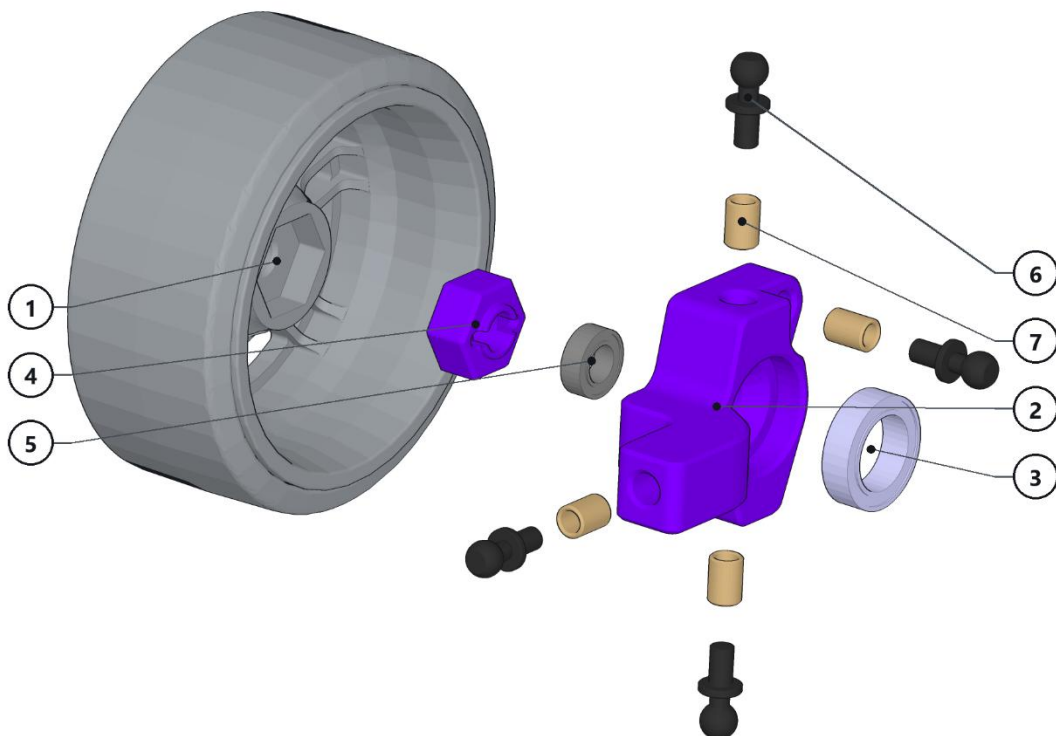




MMC XP1 Drift Chassis manual

Step 9 — Sub-assembly XP1-113-2

13 parts



Assembly notes

- 1 Install the threaded inserts and the ballstuds.
- 2 Install the bearings.
- 3 Optionally install now the Yokomo axle and the wheel.

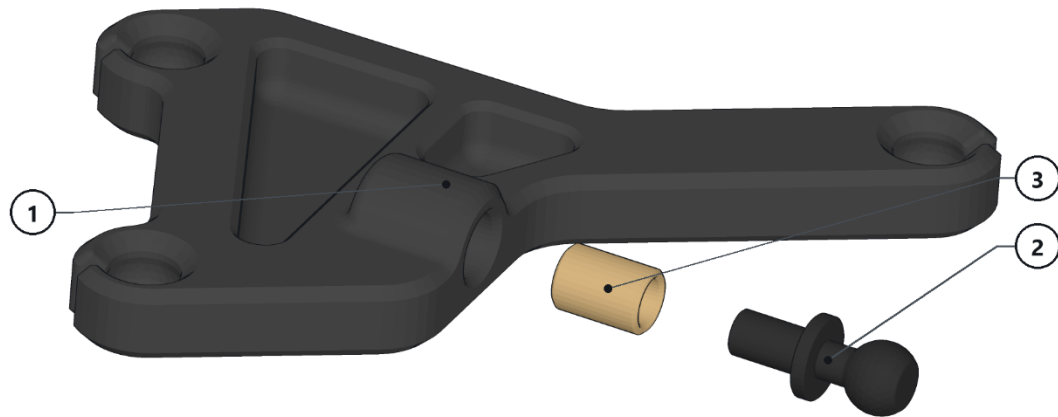
- | | |
|--|---|
| 1 RPF1_Wheel x1 — 26mm Wheel (Enkei RPF1 replica) | 2 XP1-033-2 x1 — Rear Knuckle Left |
| 3 BB-10X15X5 x1 | 4 WHEEL_HEX x1 — Wheel Hexagon |
| 5 BB-5X9X3 x1 — Ball Bearing - OD: 9mm, ID: 5mm, Wl... | 6 BallJoint_4.8mm x4 — 4.8mm BallJoint (6mm thread) |
| 7 TI-6 x4 — Brass Threaded Insert (M3x6x4,5) | |



MMC XP1 Drift Chassis manual

Step 10 — Sub-assembly XP1-114-1

3 parts



Assembly notes

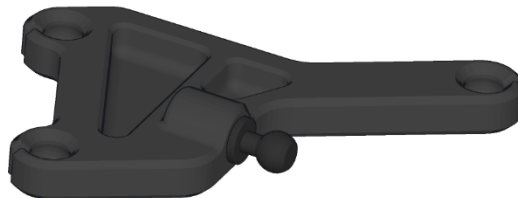
- ① Install threaded insert and ballstud.

① XP1-034-1 x1 — Rear LCA Right

② BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread)

③ TI-6 x1 — Brass Threaded Insert (M3x6x4,5)

Assembled

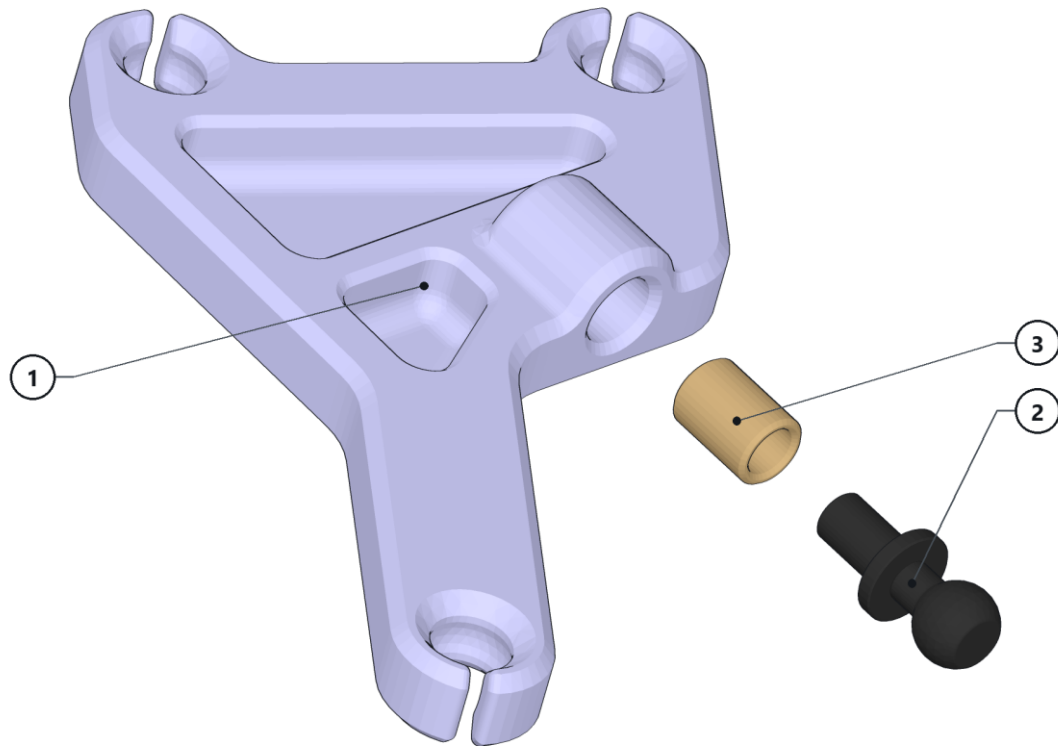




MMC XP1 Drift Chassis manual

Step 11 — Sub-assembly XP1-114-2

3 parts



Assembly notes

- 1 Install threaded insert and ballstud.

1 XP1-034-2 x1 — Rear LCA Left

3 TI-6 x1 — Brass Threaded Insert (M3x6x4,5)

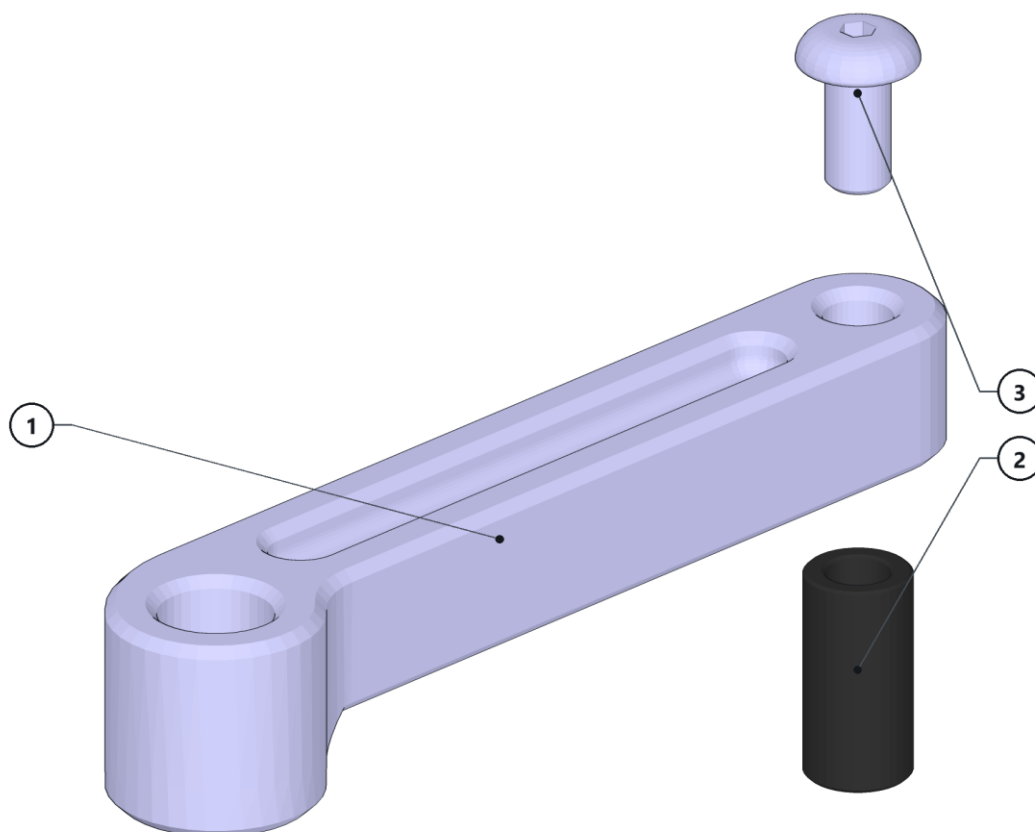
2 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread)



MMC XP1 Drift Chassis manual

Step 12 — Sub-assembly XP1-111-1

3 parts



Assembly notes

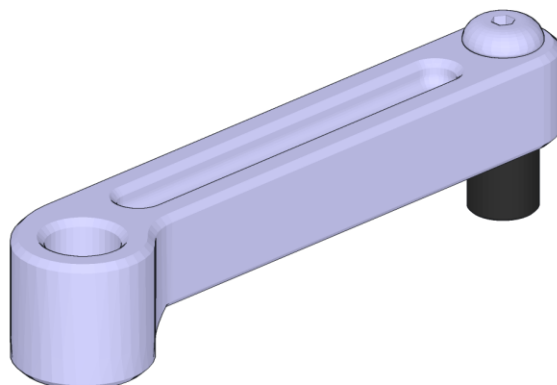
- 1 Install the round nut with the screw.

1 XP1-031-1 x1 — Battery Support Right

2 FR-10 x1

3 M3x6 x1

Assembled

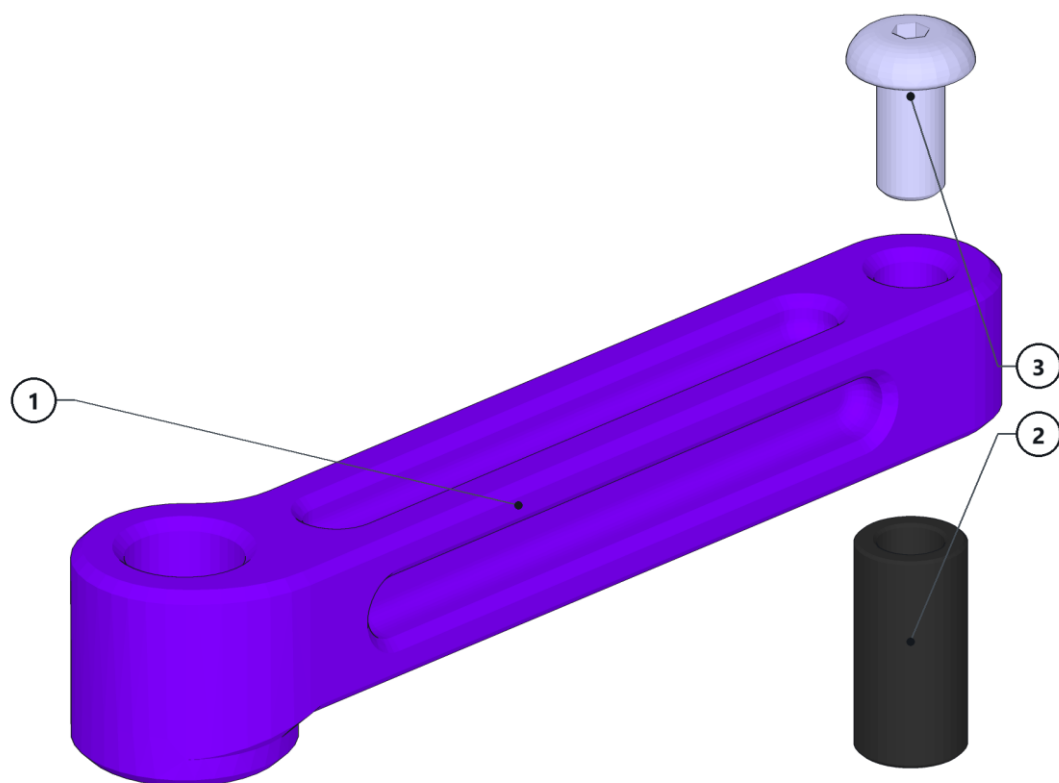




MMC XP1 Drift Chassis manual

Step 13 — Sub-assembly XP1-111-2

3 parts



Assembly notes

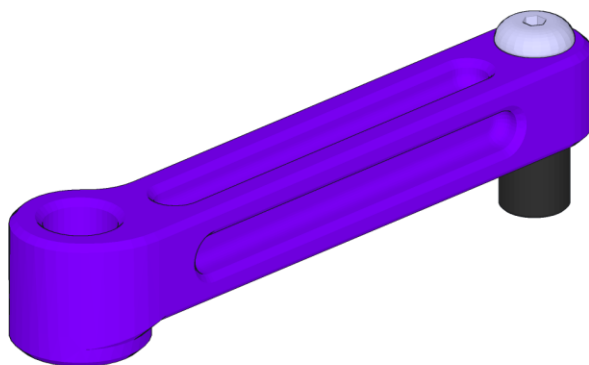
- 1 Install the round nut with the screw.

1 XP1-031-2 x1 — Battery Support Left

2 FR-10 x1

3 M3x6 x1

Assembled

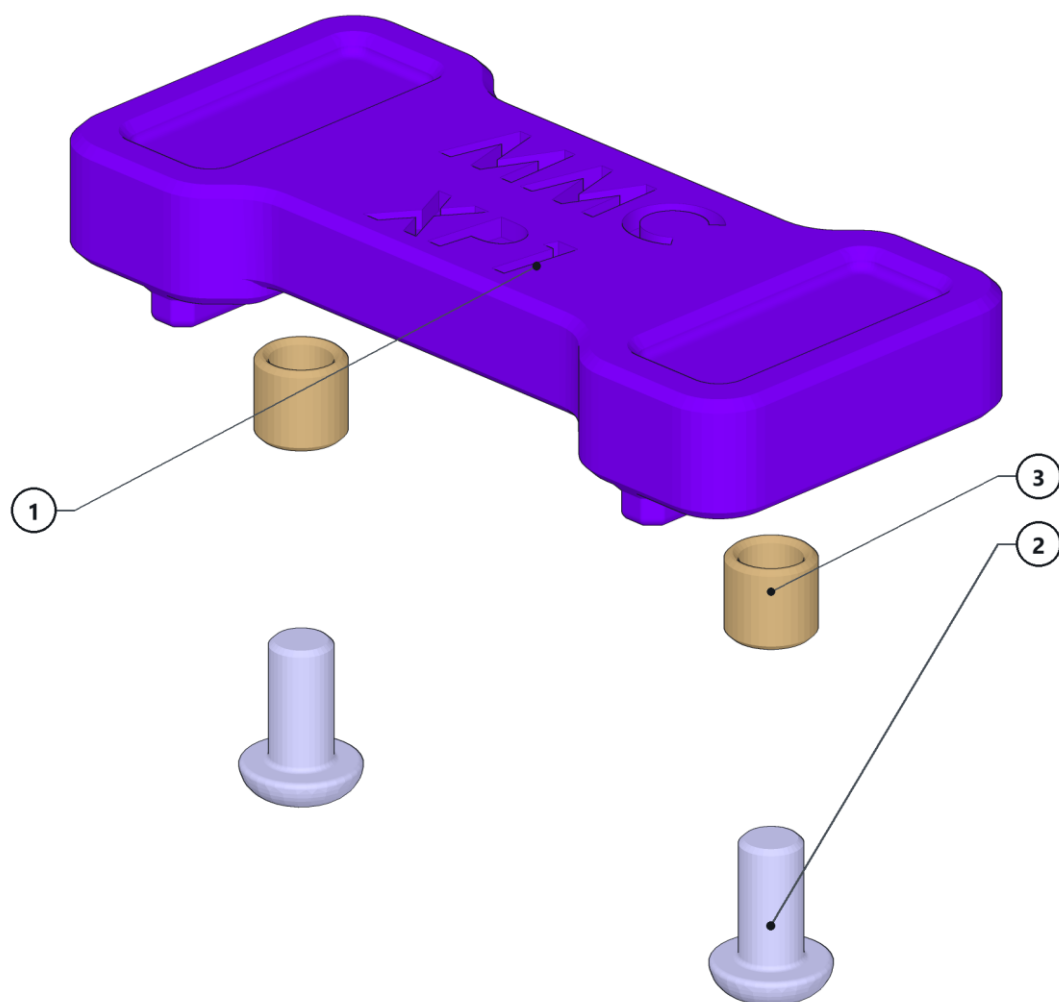




MMC XP1 Drift Chassis manual

Step 14 — Sub-assembly XP1-116

5 parts



Assembly notes

- 1 Install the threaded inserts.
- 2 Leave the screws attached for final assembly.

1 XP1-042 x1 — Flex plate

3 TI-4 x2 — Brass Threaded Insert (M3x4x4,5)

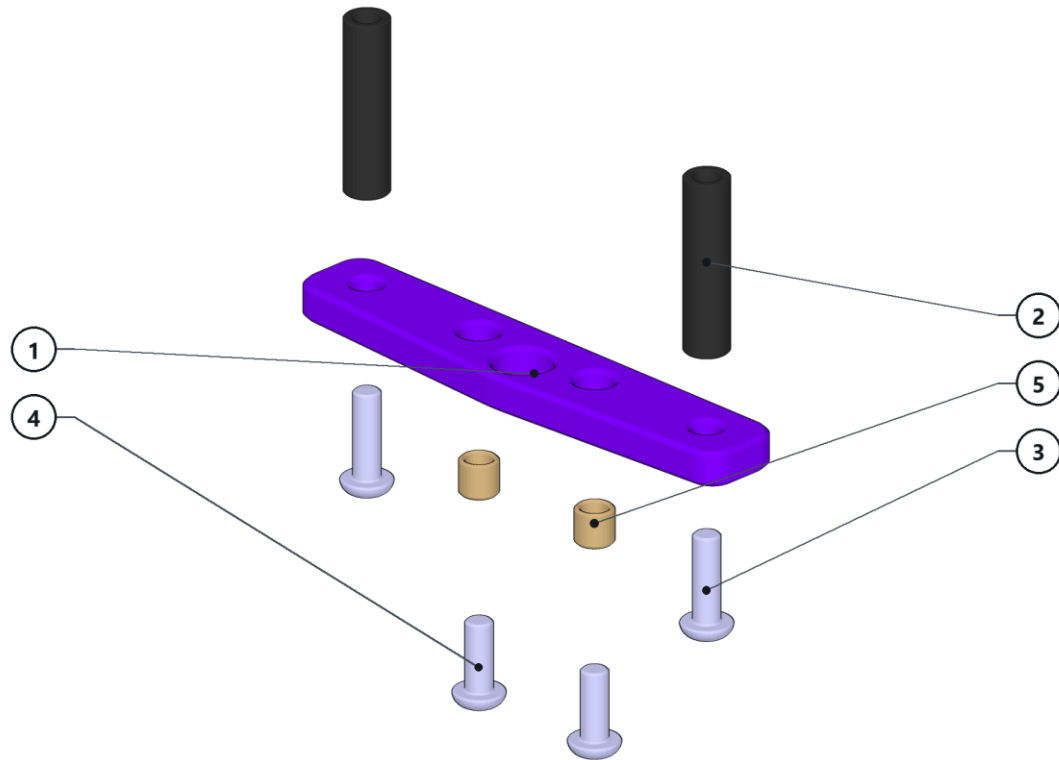
2 ISO7380 M3x6 x2 — ButtonHead ISO7380 M3x6 Screw



MMC XP1 Drift Chassis manual

Step 15 — Sub-assembly XP1-1000

9 parts

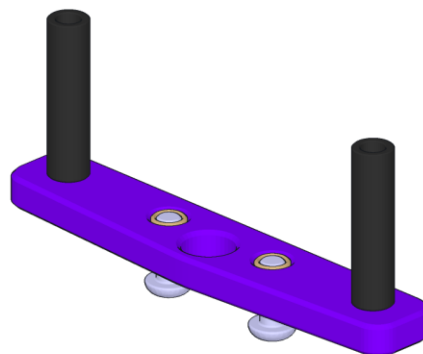


Assembly notes

- 1 Install the threaded inserts.
- 2 Screw in the round nuts with the screws from the bottom.
- 3 Leave the countersunk screws attached for final assembly.

- | | |
|---|----------------------------------|
| 1 XP1-041 x1 — Body post front magnet support | 2 RN-20 x2 — Round Nut M3 (20mm) |
| 3 ISO7380 M3x10 x2 — ButtonHead ISO7380 M3x10 Sc... | 4 M3x8 x2 |
| 5 TI-4 x2 — Brass Threaded Insert (M3x4x4,5) | |

Assembled

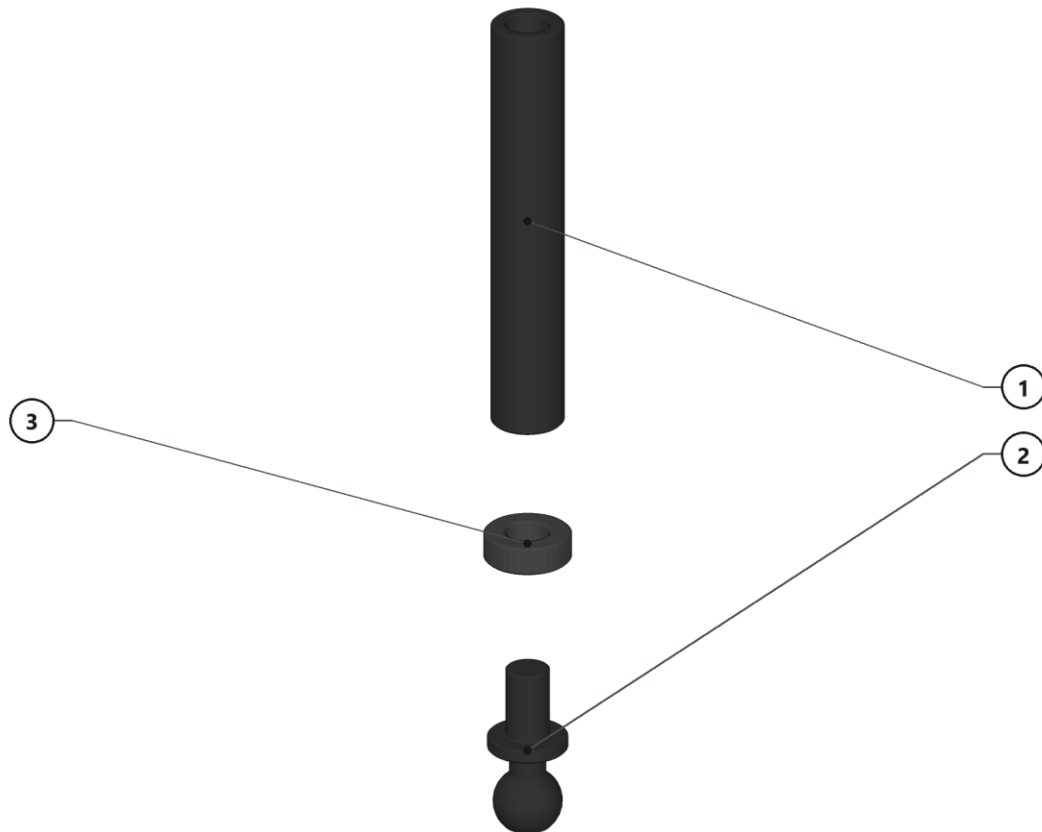




MMC XP1 Drift Chassis manual

Step 16 — Sub-assembly XP1-1002

3 parts



Assembly notes

- 1 Screw it the ballstud with the 2mm spacer.

1 FR-35 x1

3 SPCR_2MM x1 — 2mm Spacer

2 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread)

Assembled

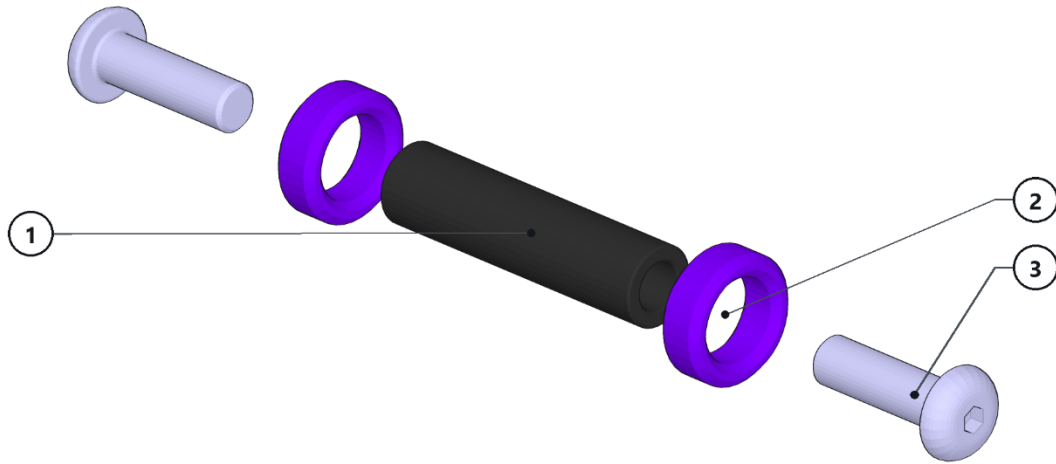




MMC XP1 Drift Chassis manual

Step 17 — Sub-assembly XP1-1001

5 parts



Assembly notes

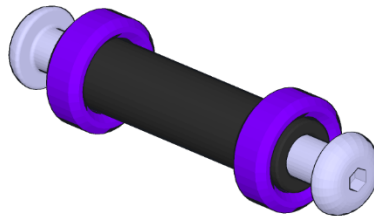
- 1 You can make this assembly to the upper deck directly.

1 RN-20 x1 — Round Nut M3 (20mm)

2 xp1-036 x2

3 M3x10 x2

Assembled

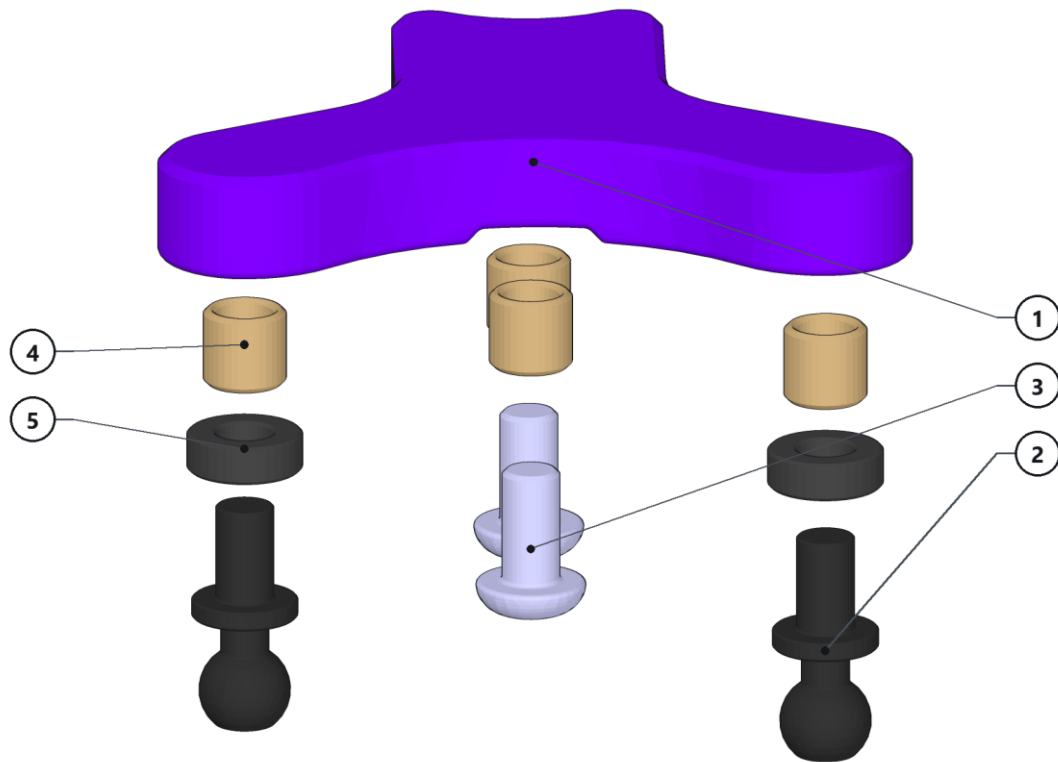




MMC XP1 Drift Chassis manual

Step 18 — Sub-assembly XP1-1030

11 parts

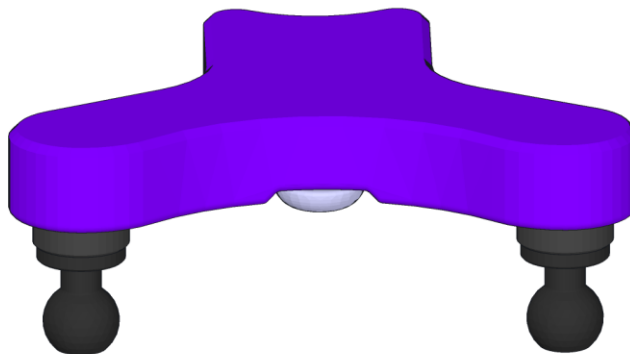


Assembly notes

- 1 Install the threaded inserts and the ballstuds.
- 2 Leave the screws attached for final assembly.

- | | |
|---------------------------------|---|
| 1 XP1-010 x1 — Steering Whipper | 2 BallJoint_4.8mm x2 — 4.8mm BallJoint (6mm thread) |
| 3 M3x6 x2 | 4 TI-4 x4 — Brass Threaded Insert (M3x4x4,5) |
| 5 SPCR_2MM x2 — 2mm Spacer | |

Assembled

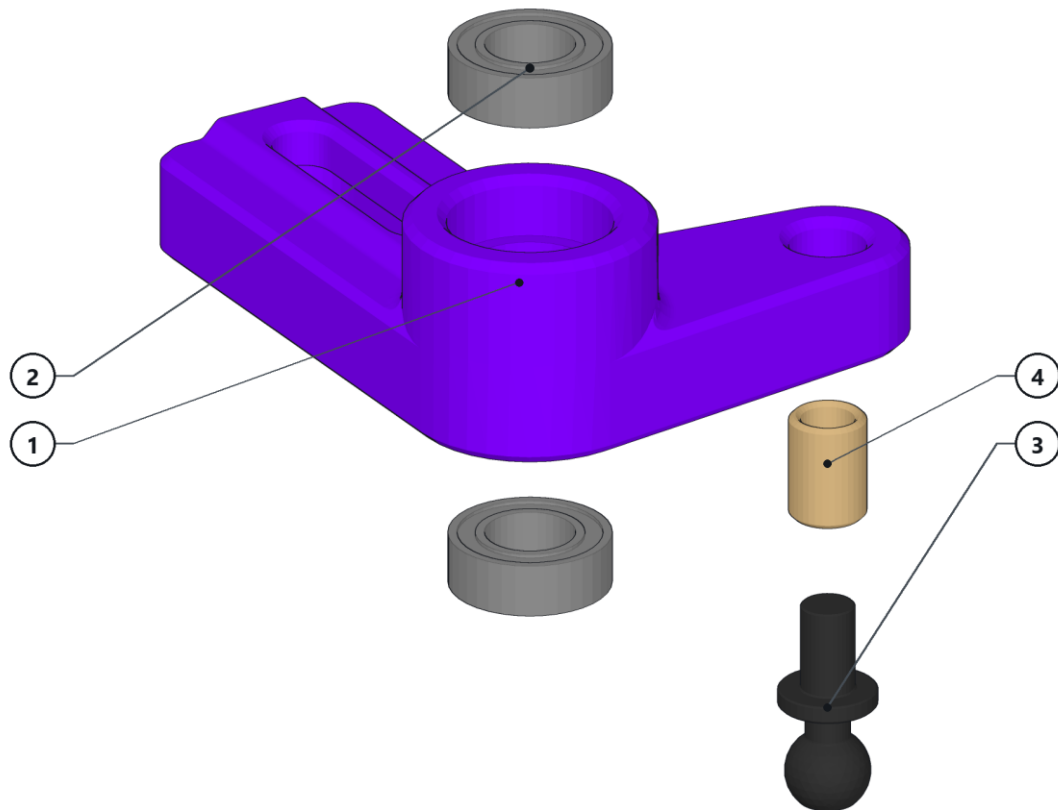




MMC XP1 Drift Chassis manual

Step 19 — Sub-assembly XP1-1031

5 parts

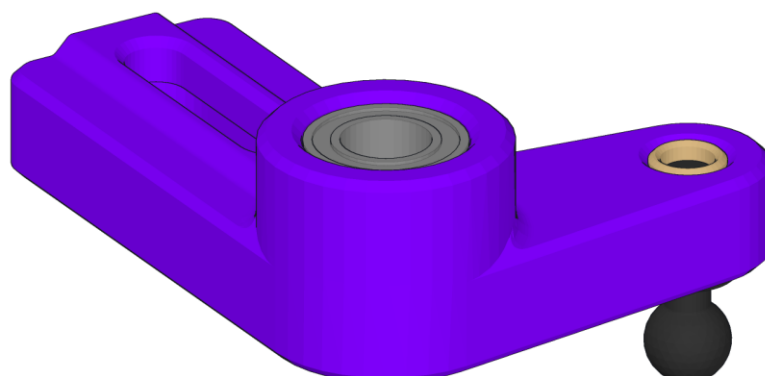


Assembly notes

- 1 Install the threaded insert.
- 2 Install the bearings.

- | | |
|---|--|
| 1 XP1-009 x1 — Steering Lever Arm | 2 BB-5X9X4 x2 |
| 3 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread) | 4 TI-6 x1 — Brass Threaded Insert (M3x6x4,5) |

Assembled

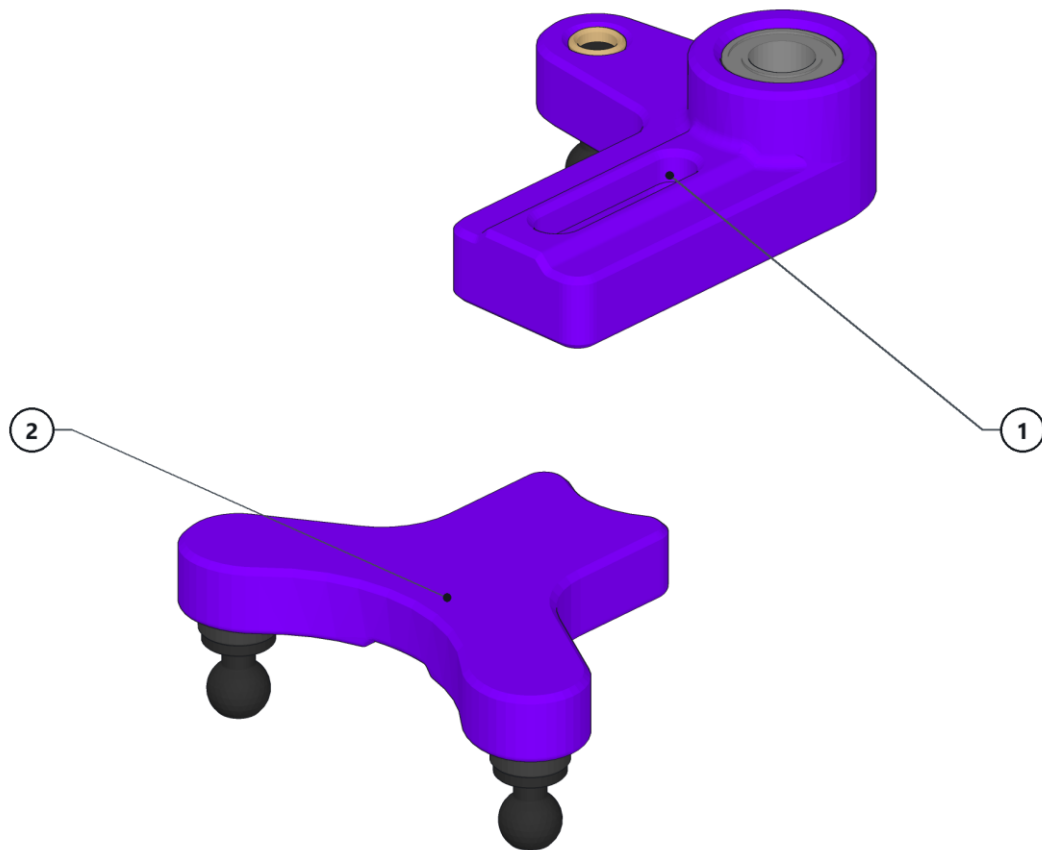




MMC XP1 Drift Chassis manual

Step 20 — Sub-assembly XP1-105

16 parts



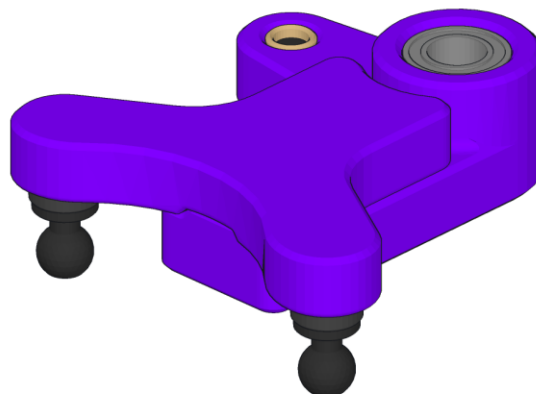
Assembly notes

- 1 Screw the two parts together with the two screws.

1 XP1-1031 x1

2 XP1-1030 x1

Assembled

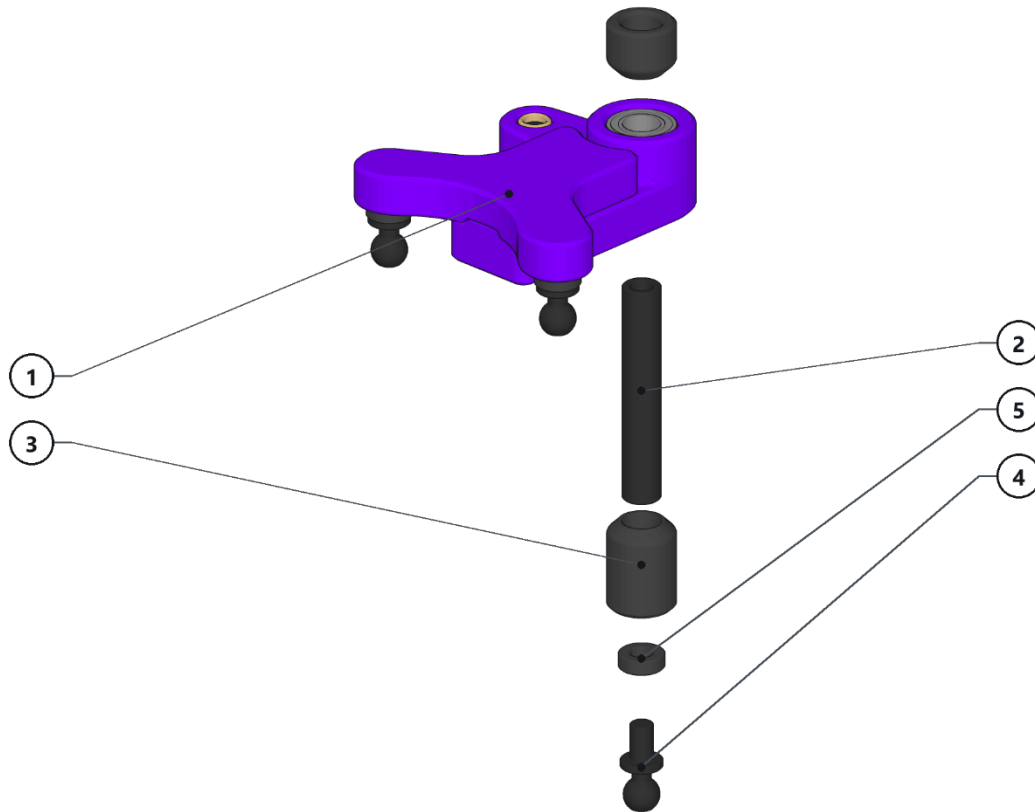




MMC XP1 Drift Chassis manual

Step 21 — Sub-assembly XP1-1003

21 parts

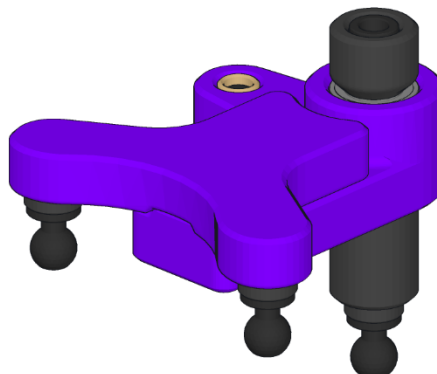


Assembly notes

- 1 Assemble the steering pivot point with the round nut, ballstud and the spacers.

- | | |
|--------------------------------------|---|
| 1 XP1-105 x1 | 2 FR-35 x1 |
| 3 XP1-012 x2 — Steering Lower Spacer | 4 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread) |
| 5 SPCR_2MM x1 — 2mm Spacer | |

Assembled

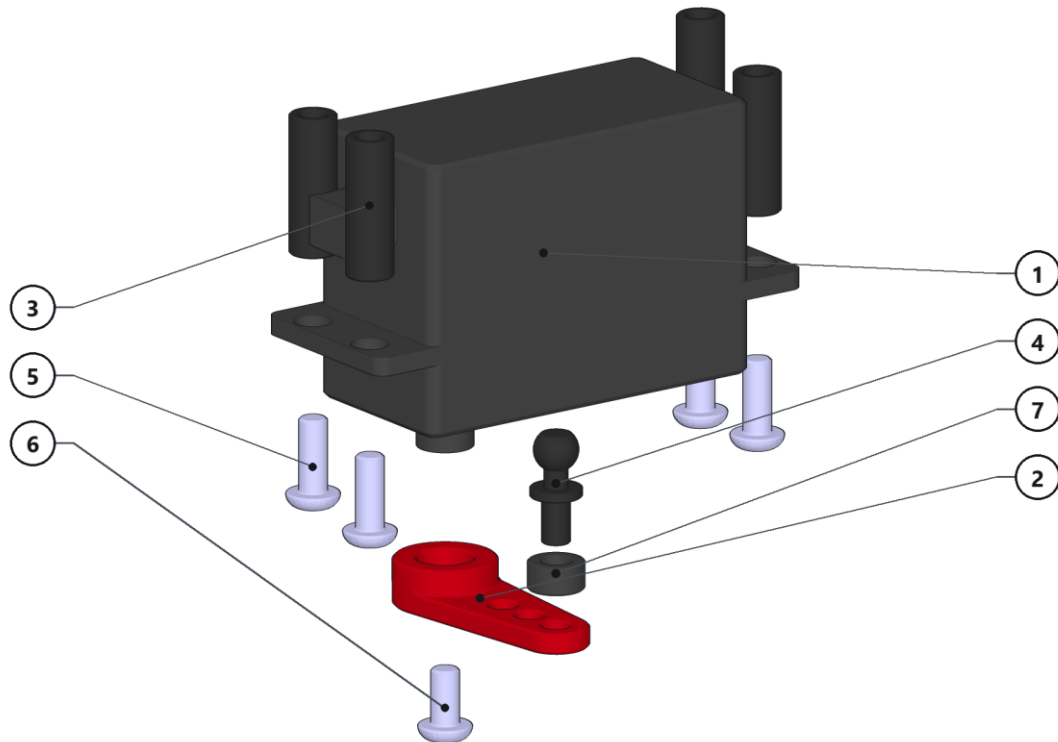




MMC XP1 Drift Chassis manual

Step 22 — Sub-assembly XP1-1004

13 parts

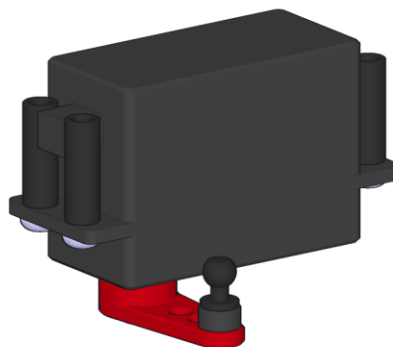


Assembly notes

- 1 Screw the four round nuts to the servo with the screws.
- 2 Install the servo horn and the ball joint with the spacer.

- | | |
|---|---|
| 1 Servo x1 — Low Profile type Servo | 2 Brace_Servo x1 |
| 3 FR-15 x4 | 4 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread) |
| 5 ISO7380 M3x8 x4 — ButtonHead M3x8 screw | 6 M3x6 x1 |
| 7 SPCR-3MM x1 — 3mm Spacer | |

Assembled

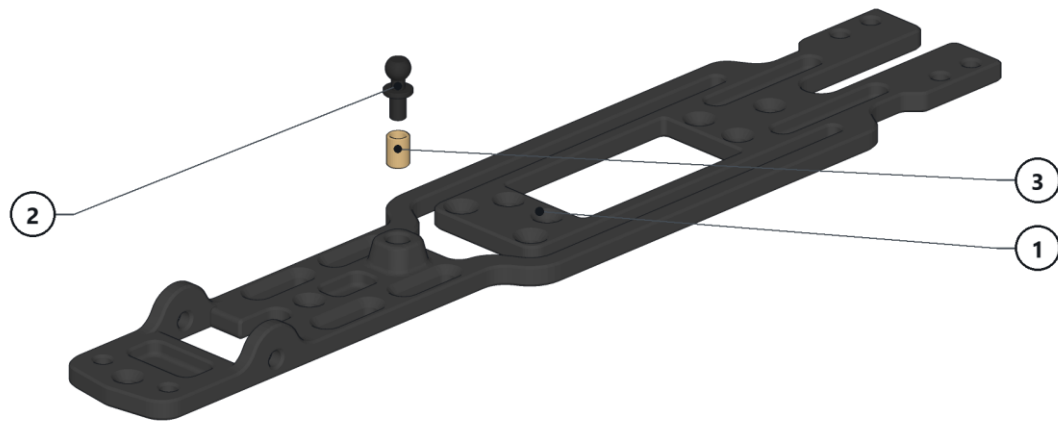




MMC XP1 Drift Chassis manual

Step 23 — Sub-assembly XP1-1005

3 parts



Assembly notes

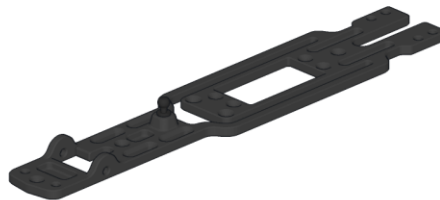
- 1 Install the threaded insert and the ballstud to the upper deck.

1 XP1-004 x1 — Upper Deck

2 BallJoint_4.8mm x1 — 4.8mm BallJoint (6mm thread)

3 TI-6 x1 — Brass Threaded Insert (M3x6x4,5)

Assembled

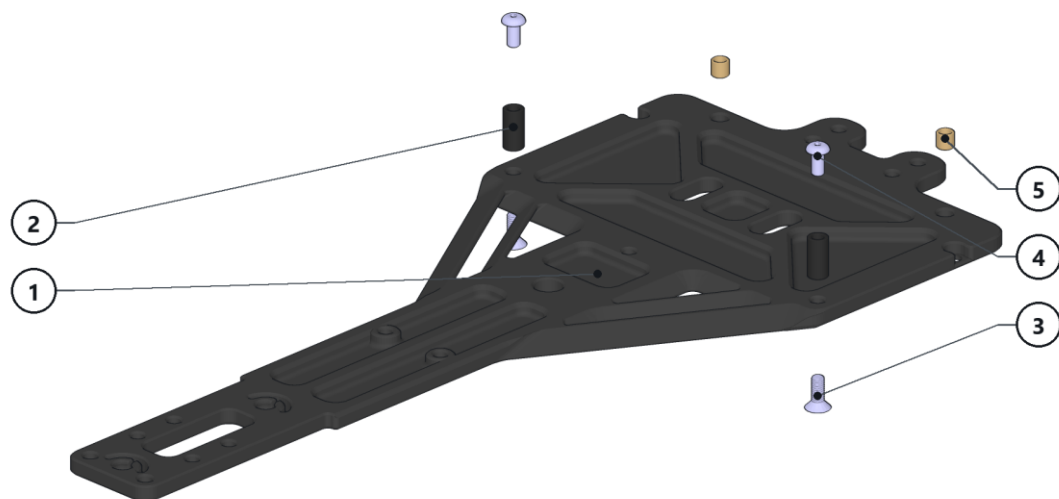




MMC XP1 Drift Chassis manual

Step 24 — Sub-assembly XP1-1006

9 parts

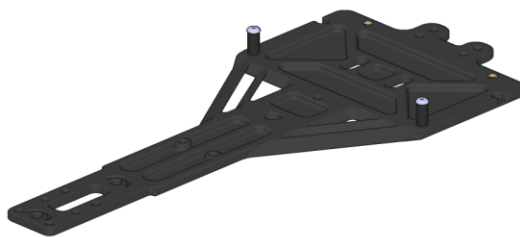


Assembly notes

- 1 Install the threaded inserts to the bottom deck.
- 2 Install the battery guards' pivot points to the bottom deck with the screws.

- | | |
|--|------------|
| 1 XP1-001 x1 — Lower Deck | 2 FR-10 x2 |
| 3 Screw_ISO_10642_M3x8_A2 x2 | 4 M3x6 x2 |
| 5 TI-4 x2 — Brass Threaded Insert (M3x4x4,5) | |

Assembled

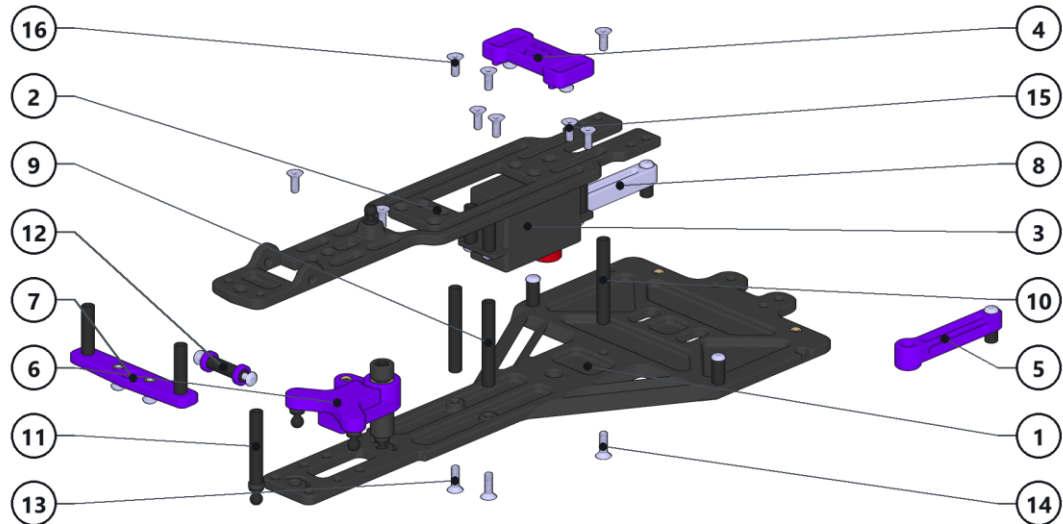




MMC XP1 Drift Chassis manual

Step 25 — Sub-assembly XP1-102

89 parts

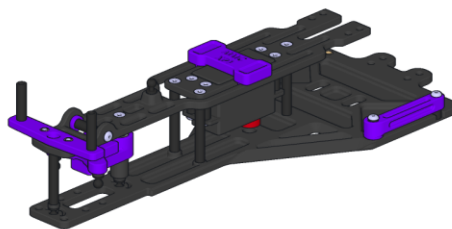


Assembly notes

- 1 Assemble the main chassis as shown.
- 2 Before installing the XP1-1001 assembly, install the front bellcrank (XP1-104) to the round nut.
- 3 - A slight fit adjustment between the bearings and the round nut may be needed.

1 XP1-1006 x1	2 XP1-1005 x1
3 XP1-1004 x1	4 XP1-116 x1
5 XP1-111-2 x1	6 XP1-1003 x1
7 XP1-1000 x1	8 XP1-111-1 x1
9 RN-35 x2 — Round Nut M3 (35mm)	10 FR-35 x1
11 XP1-1002 x1	12 XP1-1001 x1
13 ISO10642 M3x10 x2 — CounterSunk ISO10642 M3x1...	14 Screw_ISO_10642_M3x10_A2 x1
15 Screw_ISO_10642_M3x8_A2 x7	16 ISO10642 M3x8 x2 — CounterSunk ISO10642 M3x8 S...

Assembled

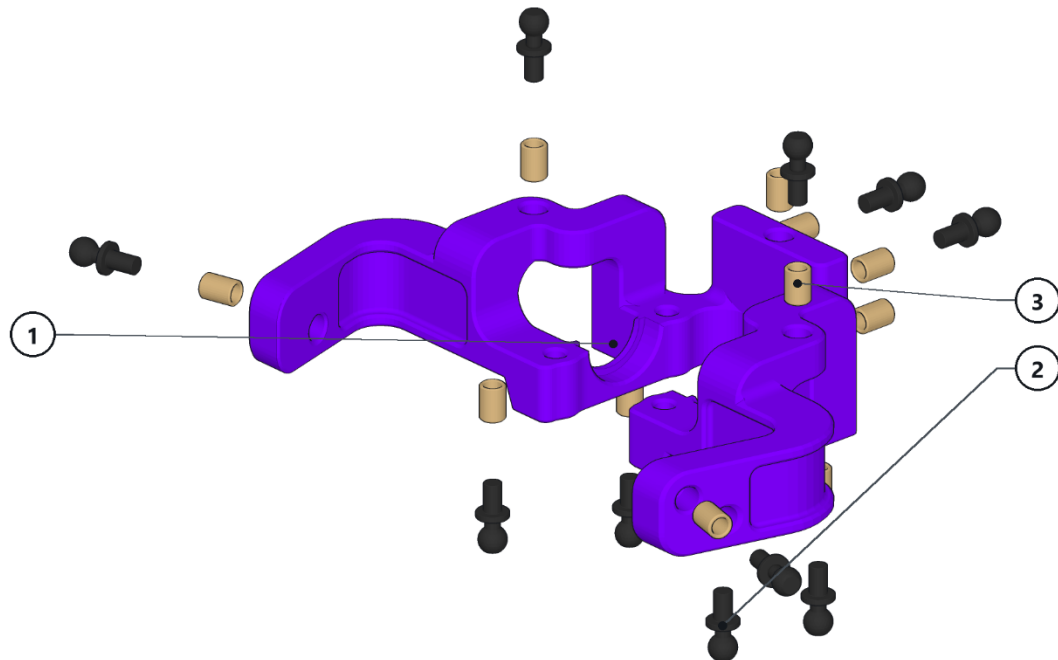




MMC XP1 Drift Chassis manual

Step 26 — Sub-assembly XP1-112

24 parts

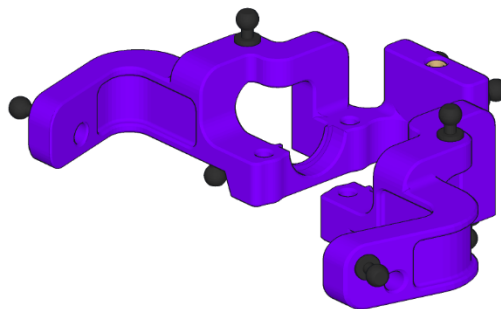


Assembly notes

- 1 Install all threaded inserts and ballstuds.

- | | |
|---|--|
| 1 XP1-032 x1 — Rear Subframe | 2 BallJoint_4.8mm x10 — 4.8mm BallJoint (6mm thread) |
| 3 TI-6 x13 — Brass Threaded Insert (M3x6x4,5) | |

Assembled

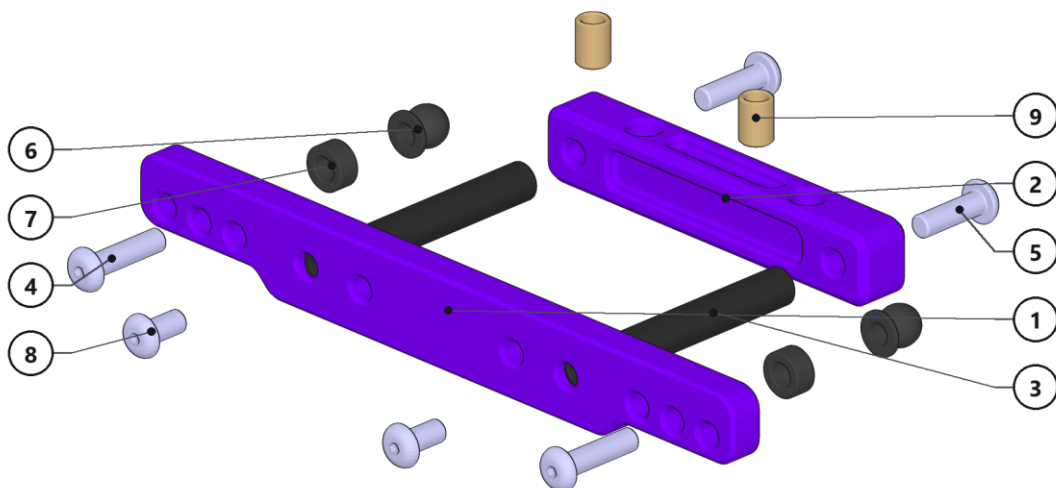




MMC XP1 Drift Chassis manual

Step 27 — Sub-assembly XP1-115

16 parts

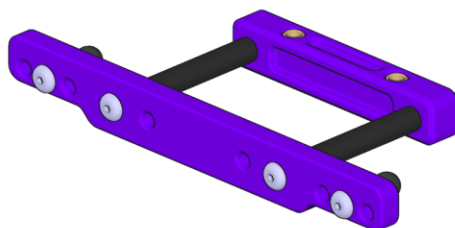


Assembly notes

- 1 Assemble the rear suspension and body mount.
- 2 Install the threaded inserts to XP1-037 first.

- | | |
|--|------------------------------------|
| 1 XP1-035 x1 — Rear Suspension Support | 2 XP1-037 x1 — Rear Magnet Support |
| 3 FR-35 x2 | 4 M3x12 x2 |
| 5 M3x10 x2 | 6 Ball_Femella_5,5mm_V2 x2 |
| 7 SPCR-3MM x2 — 3mm Spacer | 8 M3x6 x2 |
| 9 TI-6 x2 — Brass Threaded Insert (M3x6x4,5) | |

Assembled

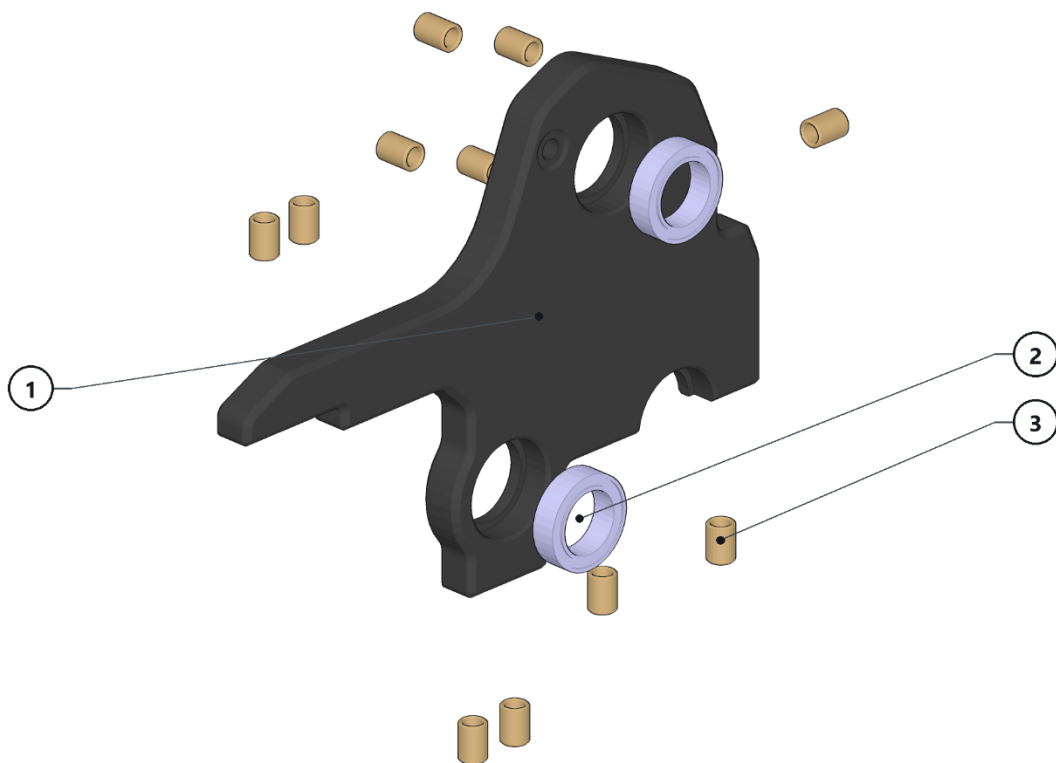




MMC XP1 Drift Chassis manual

Step 28 — Sub-assembly XP1-107-1

14 parts



Assembly notes

- 1 Install all threaded inserts and bearings.

1 XP1-016-1 x1 — Rear Bulk-head Right

2 BB-10X15X5 x2

3 TI-6 x11 — Brass Threaded Insert (M3x6x4,5)

Assembled

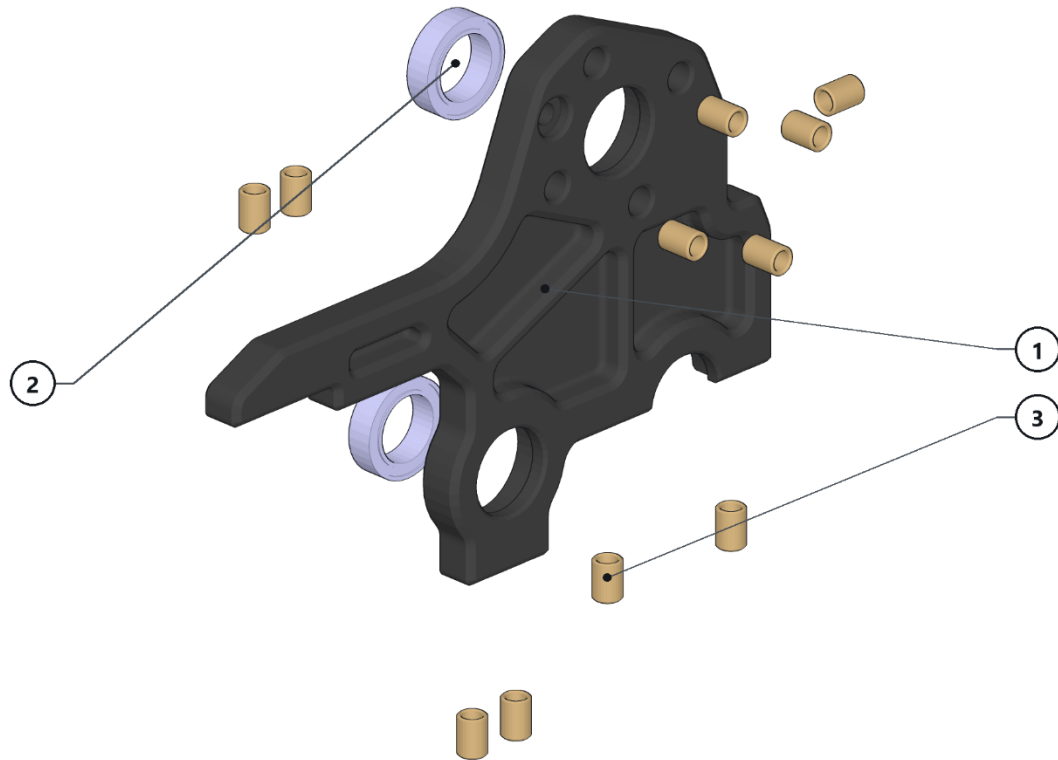




MMC XP1 Drift Chassis manual

Step 29 — Sub-assembly XP1-107-2

14 parts



Assembly notes

- 1 Install all threaded inserts and bearings.

- 1 XP1-016-2 x1 — Rear Bulk-head Left
3 TI-6 x11 — Brass Threaded Insert (M3x6x4,5)

- 2 BB-10X15X5 x2

Assembled

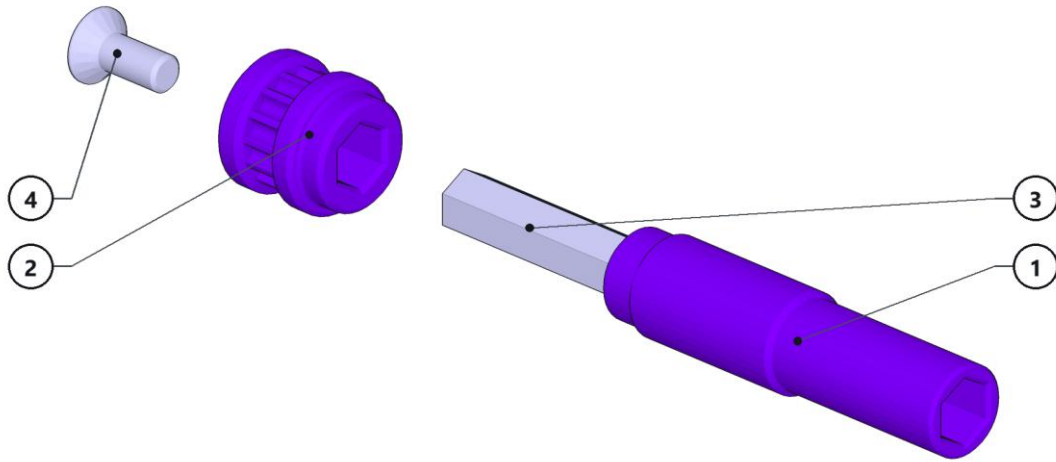




MMC XP1 Drift Chassis manual

Step 30 — Sub-assembly XP1-109

4 parts



Assembly notes

- 1 Assemble this part during step 35.

- 1 XP1-022 x1 — Main Shaft Cover
- 3 LHN-65 x1

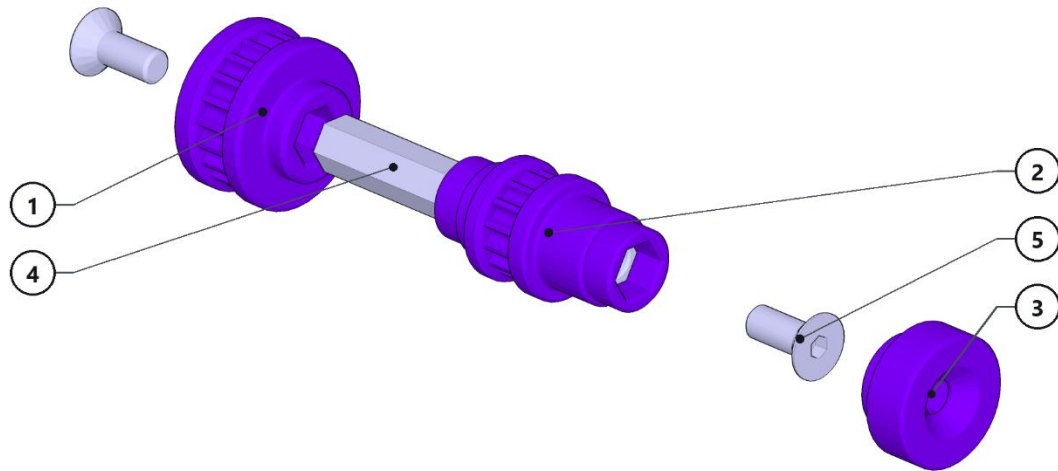
- 2 XP1-021 x1 — 14T Belt Pulley
- 4 ISO10642 M4x10 x1 — ISO10642 M4x10 Countersun...



MMC XP1 Drift Chassis manual

Step 31 — Sub-assembly XP1-110

6 parts



Assembly notes

- ① Assemble this part during step 35.

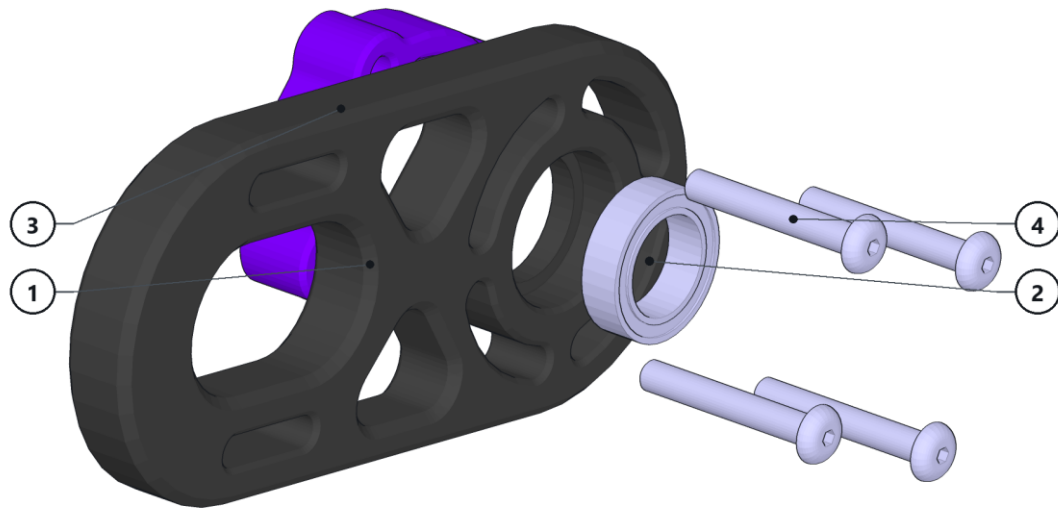
- | | |
|--|--------------------------------|
| ① XP1-025 x1 — 20T Belt Pulley | ② XP1-028 x1 — 14T Belt Pulley |
| ③ XP1-026 x1 — Secondary Shaft End Cap | ④ FH-30 x1 |
| ⑤ ISO10642 M4x10 x2 — ISO10642 M4x10 Countersun... | |



MMC XP1 Drift Chassis manual

Step 32 — Sub-assembly XP1-1011

7 parts

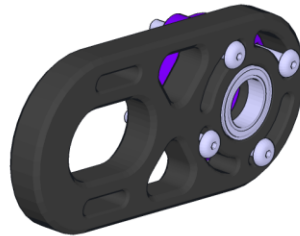


Assembly notes

- 1 Assemble this part during step 35.

- | | |
|---|-----------------|
| 1 XP1-018 x1 — Adjustable Motor Support | 2 BB-10X15X5 x1 |
| 3 XP1-017 x1 — Motor Support Spacer | 4 M3x20 x4 |

Assembled

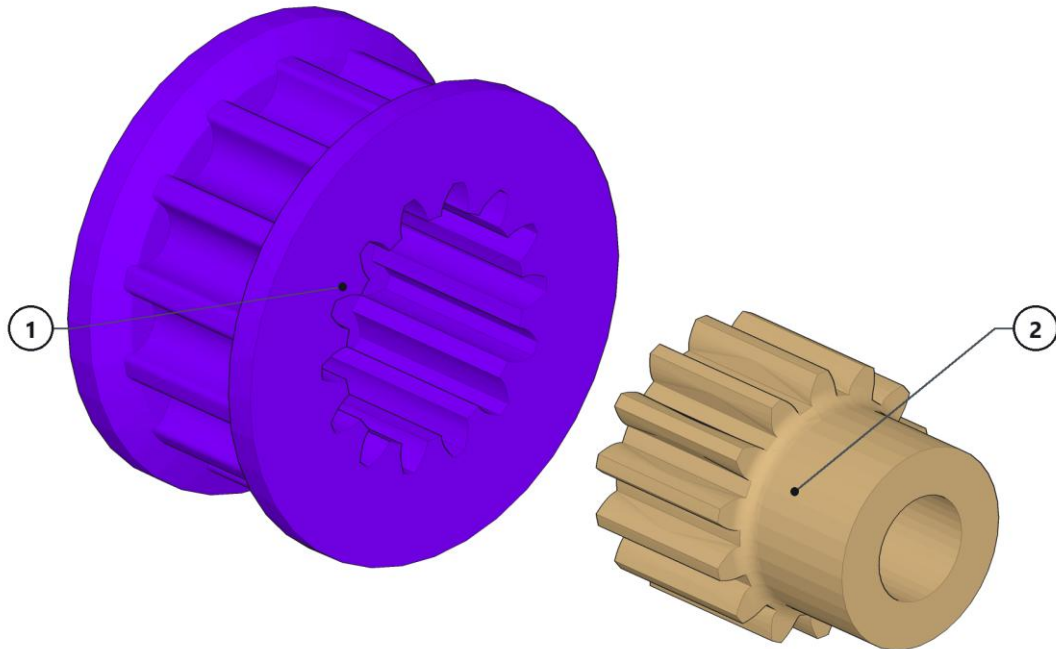




MMC XP1 Drift Chassis manual

Step 33 — Sub-assembly XP1-1013

2 parts



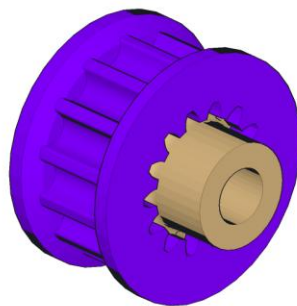
Assembly notes

- 1 Press fit the pinion to the pulley.

1 Pinyó 14T x1

2 14T_PINION x1 — Standard 14T 48p pinion

Assembled

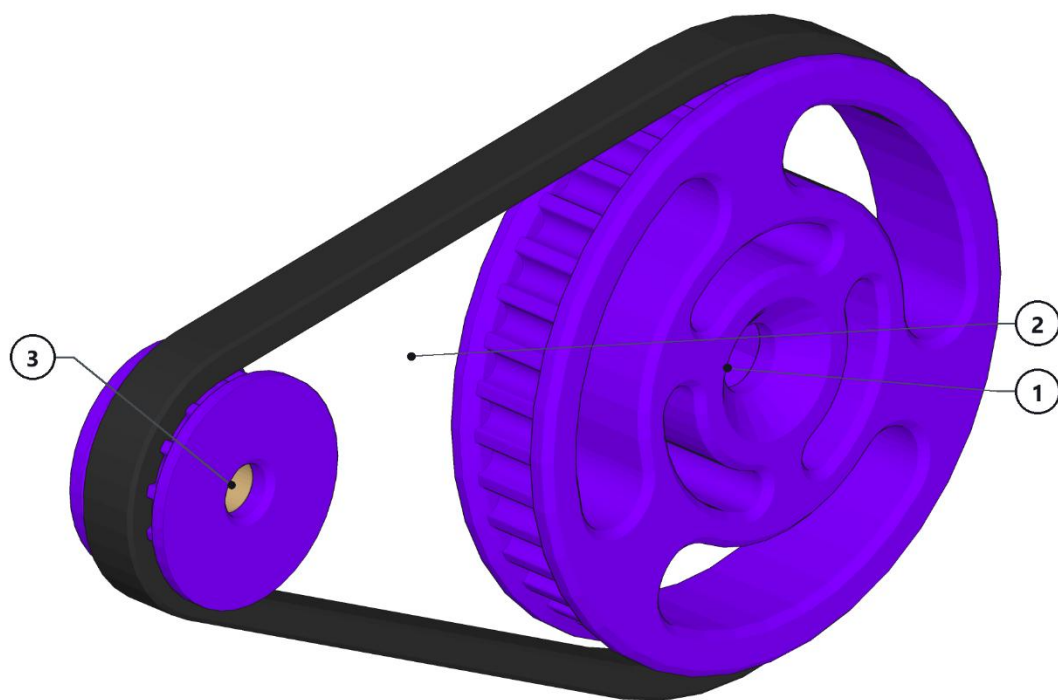




MMC XP1 Drift Chassis manual

Step 34 — Sub-assembly XP1-1012

4 parts



Assembly notes

- 1 Assemble this part during step 35.

- 1 XP1-023 x1 — 38T Belt Pulley First Stage
3 XP1-1013 x1

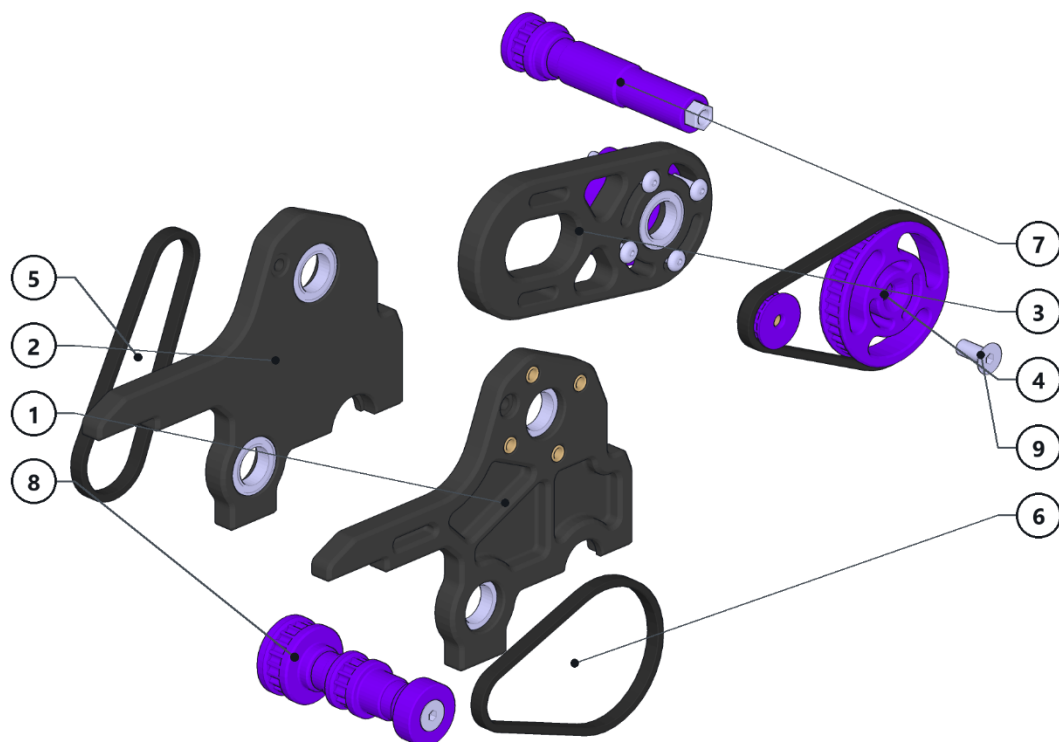
- 2 HTD3MBELT_54T x1



MMC XP1 Drift Chassis manual

Step 35 — Sub-assembly XP1-1010

52 parts

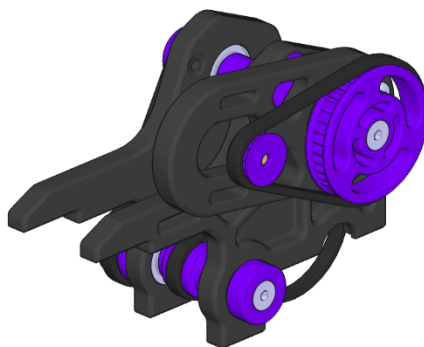


Assembly notes

- 1 It is important to remember to install the XP1-110 assembly with the belt!

- | | |
|--|--|
| 1 XP1-107-2 x1 | 2 XP1-107-1 x1 |
| 3 XP1-1011 x1 | 4 XP1-1012 x1 |
| 5 HTD3MBELT_50T x1 | 6 HTD3MBELT_50T (diff) x1 — 50T HTD3M belt (3 or 4 ... |
| 7 XP1-109 x1 | 8 XP1-110 x1 |
| 9 ISO10642 M4x10 x1 — ISO10642 M4x10 Countersun... | |

Assembled

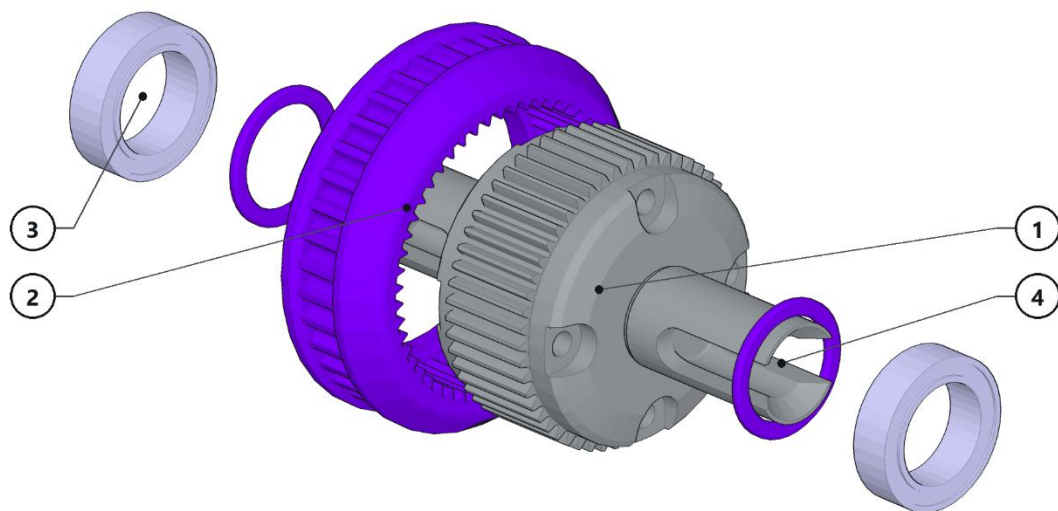




MMC XP1 Drift Chassis manual

Step 36 — Sub-assembly XP1-1014

6 parts



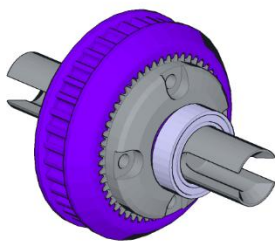
Assembly notes

- 1 Press fit the "38T-Rhino" part to the diff. This works also for yokomo diff.
- 2 Otherwise, you can use the RDX Spool with "XP2-1429-RDX" part.

- 1 Rhino_Diff x1
- 3 BB-10X15X5 x2

- 2 38T-Rhino x1
- 4 XP1-020 x2 — Diff Spacers

Assembled

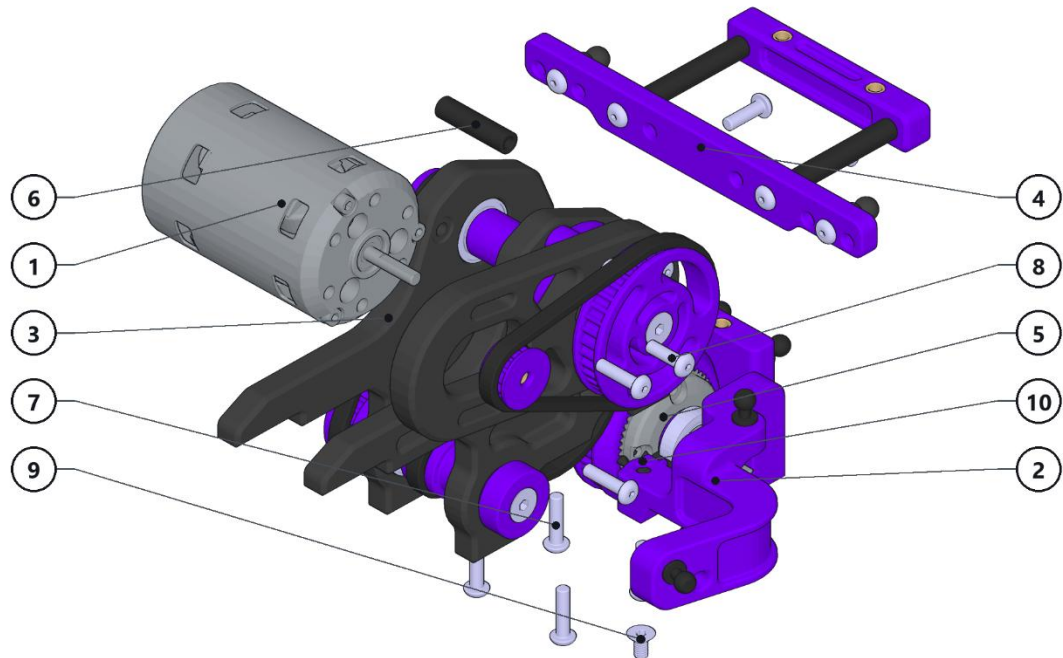




MMC XP1 Drift Chassis manual

Step 37 — Sub-assembly XP1-108

112 parts

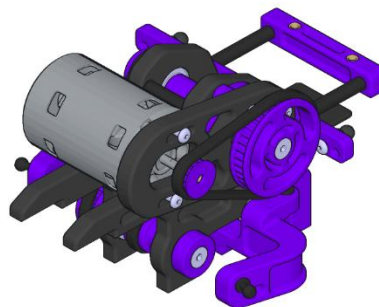


Assembly notes

- 1 Wrap the lower belt around the diff and fit the diff to the sub-frame (XP1-112).
- 2 Bolt the sub frame to the transmission assembly.
- 3 Bolt the rear suspension support and body mount to the transmission assembly.
- 4 Install the reinforcement round nut with the two screws.
- 5 Optionally install the motor now.

1 540_MOTOR x1 — Standard 540 Size Motor	2 XP1-112 x1
3 XP1-1010 x1	4 XP1-115 x1
5 XP1-1014 x1	6 RN-20 x1 — Round Nut M3 (20mm)
7 M3x12 x6	8 M3x10 x4
9 ISO10642 M3x6 x1 — CounterSunk ISO10642 M3x6 S...	10 XP1-043 x1

Assembled

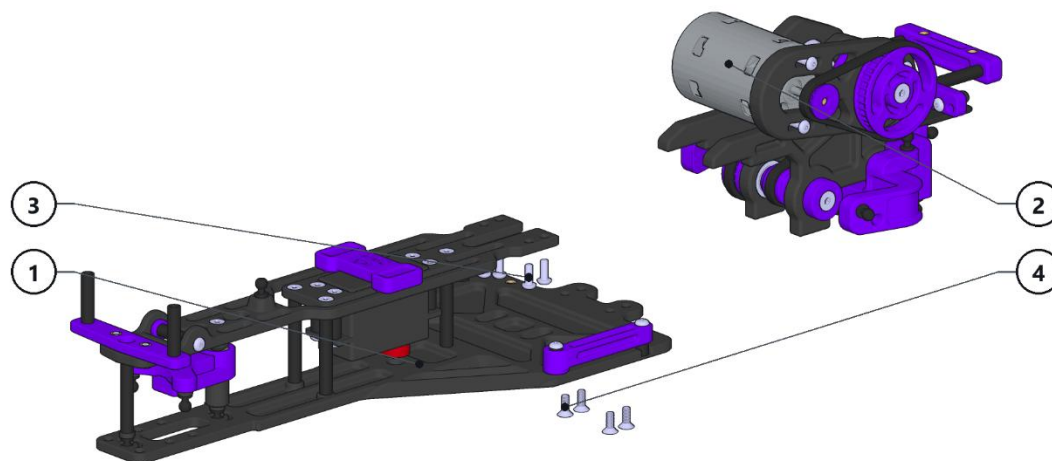




MMC XP1 Drift Chassis manual

Step 38 — Sub-assembly XP1-1020

209 parts

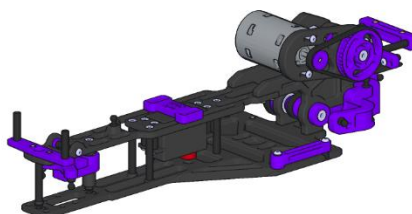


Assembly notes

- 1 Assemble the transmission structure to the main chassis with the eight screws from the bottom.

- | | |
|---|------------------------------|
| 1 XP1-102 x1 | 2 XP1-108 x1 |
| 3 ISO7380 M3x8 x4 — ButtonHead M3x8 screw | 4 Screw_ISO_10642_M3x8_A2 x4 |

Assembled

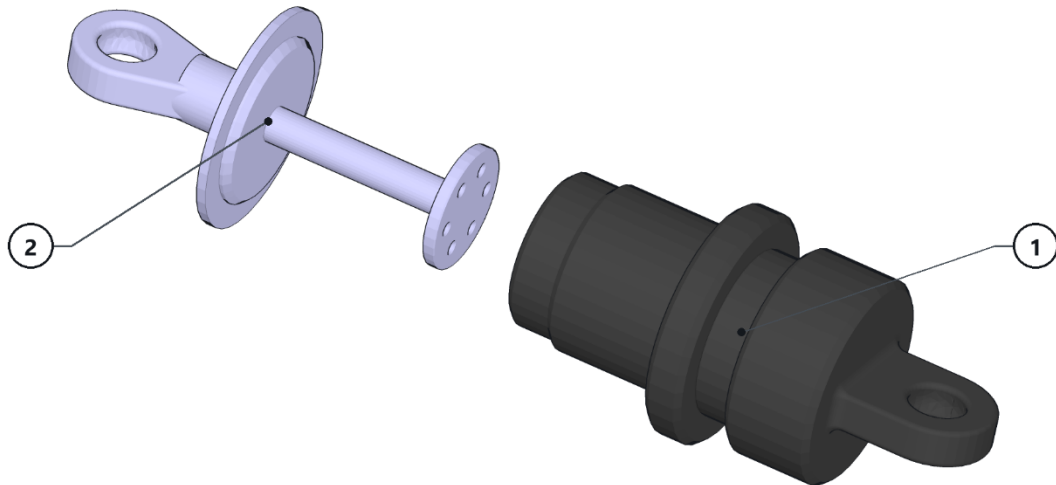




MMC XP1 Drift Chassis manual

Step 39 — Sub-assembly 55mm ShockAbsorber

2 parts — built 3 times



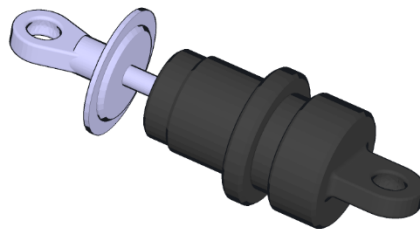
Assembly notes

- 1 Build your shock absorbers.

1 Shock_Top x1 — Shock Absorber (Top Part)

2 Shock_Bottom x1 — Shock Absorbers (Bottom Part)

Assembled

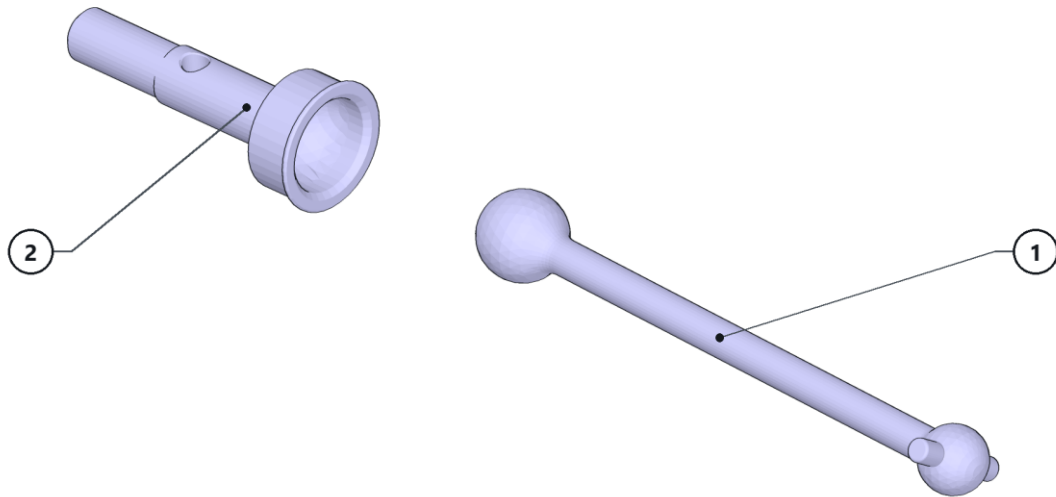




MMC XP1 Drift Chassis manual

Step 40 — Sub-assembly YOKOMO_47MMAXLE

Yokomo Rear Axle (Yokomo Y2-010) — 2 parts — built 2 times

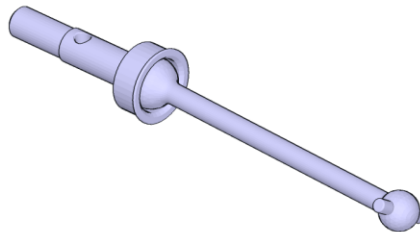


Assembly notes

- 1 Assemble the rear axles.

1 YOKOMO_47MMAXLE x1 — Yokomo Rear Axle (Yoko... 2 YOKOMO_REARAXLE x1

Assembled

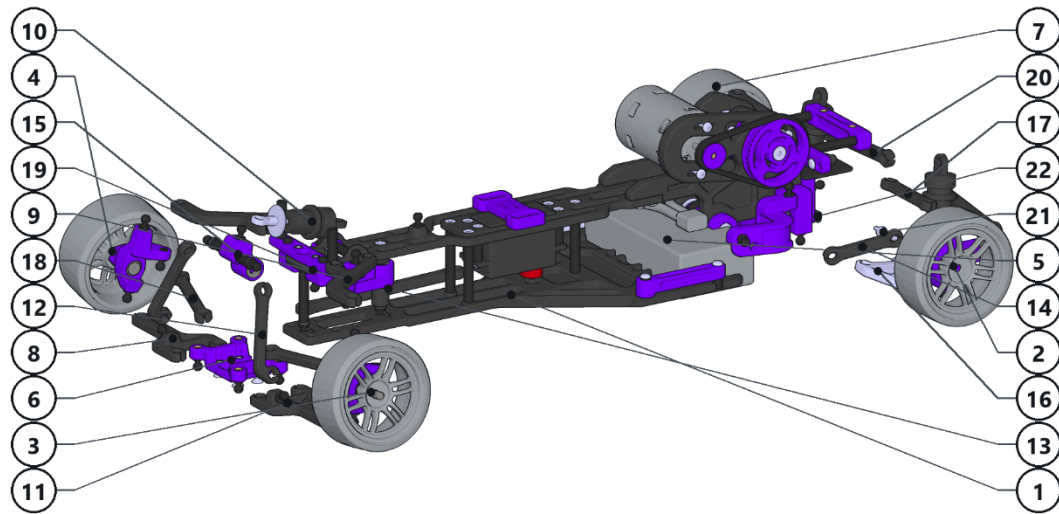




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Step 41 — Final assembly

All sub-assemblies and loose hardware in place

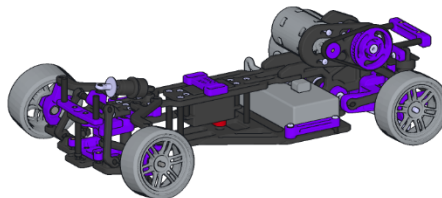


Assembly notes

- 1 Assemble all the sub-assemblies
- 2 Install the rear axles.
- 3 Pop in all the suspension and steering arms.
- 4 Done!

- | | |
|---|--|
| 1 XP1-1020 x1 | 2 XP1-113-2 x1 |
| 3 XP1-106-2 x1 | 4 XP1-106-1 x1 |
| 5 Battery x1 — "Shorty" type battery | 6 XP1-002 x1 — Front Subframe |
| 7 XP1-113-1 x1 | 8 XP1-101 x1 |
| 9 XP1-006 x2 — Front UCA Right and Left | 10 55mm ShockAbsorber x3 |
| 11 XP1-101-2 x1 | 12 XP1-008 x2 — Front Fixed-length Push-rod |
| 13 XP1-011 x1 — Servo Fixed-length Actuator | 14 XP1-039 x2 — Rear Traction Fixed-length Arm |
| 15 XP1-104 x1 | 16 XP1-114-2 x1 |
| 17 XP1-040 x2 — Rear Camber Fixed-length Arm | 18 XP1-015 x2 — Fixed-length Steering Rods |
| 19 XP1-103 x1 | 20 XP1-038 x2 — Rear Active Toe Fixed-length Arm |
| 21 YOKOMO_47MMAXLE x2 — Yokomo Rear Axle (Yoko... | 22 XP1-114-1 x1 |

Assembled





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