

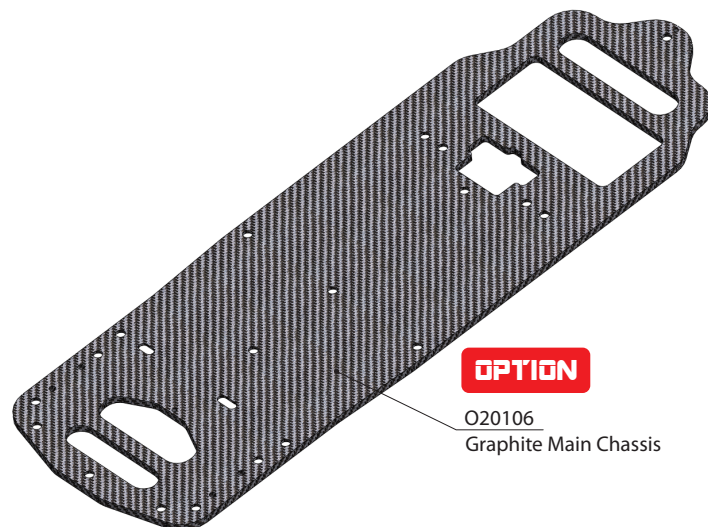
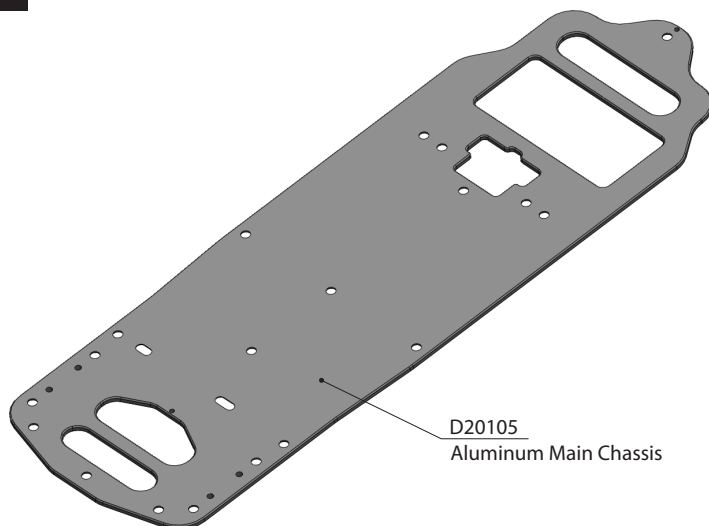
DTY-125

1/12 SCALE COMPETITION PAN CAR KIT

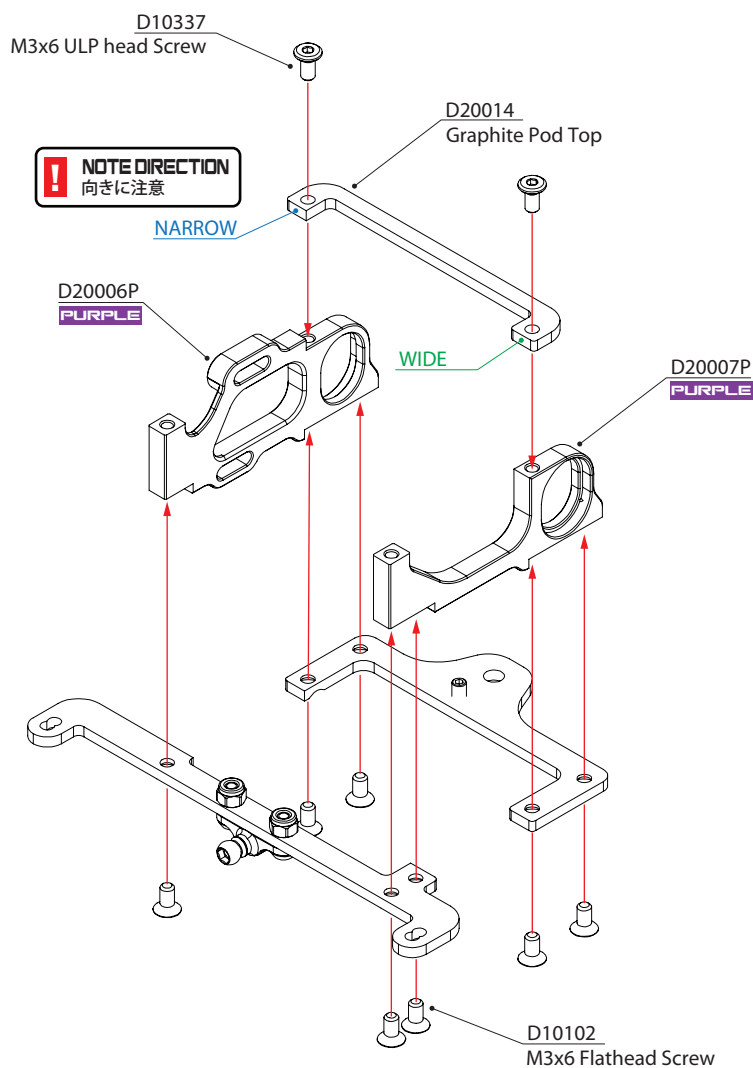
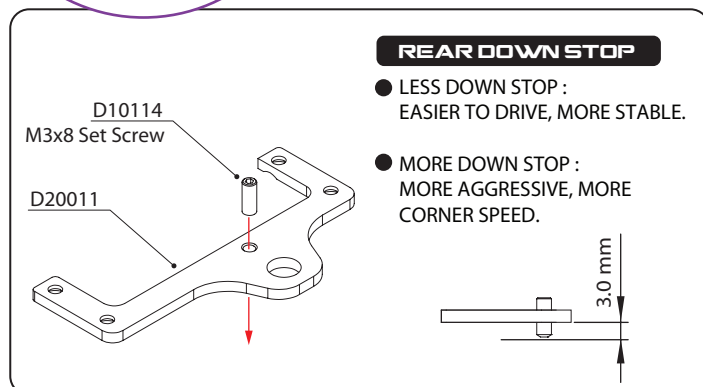
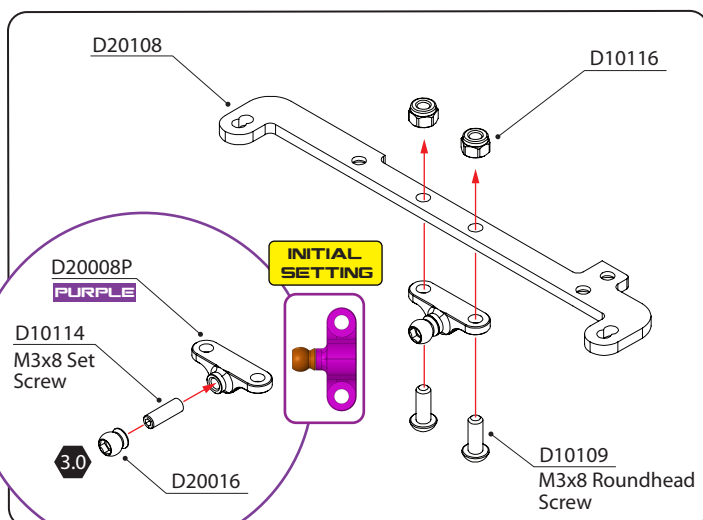
MANUFACTURED BY

ROCKE

**INSTRUCTION
MANUAL**



PIVOT BLOCK AND REAR BULKHEAD

BAG **A**

D10109 M3x8 Roundhead Screw, 10 pcs
D10114 M3x8 Set Screw, 10 pcs
D10116 M3 Lock Nut, 10 pcs
D20006P Aluminum Motor Mount
D20007P Aluminum Left Bulkhead

D20008P Aluminum Ball Block
D20011 Graphite Pod Base
D20016 Aluminum 5mm Pivot Ball, 5 pcs
D20105 2.0mm Aluminum Main Chassis
D20108 Graphite Pod Front

PIVOT BLOCK AND REAR BULKHEAD

D20036
M3 Nut, Thin

D20035
M3x25 Flathead Screw

MOVE FREELY !
ENSURE SUSPENSION
MOVE FREELY.

D20107

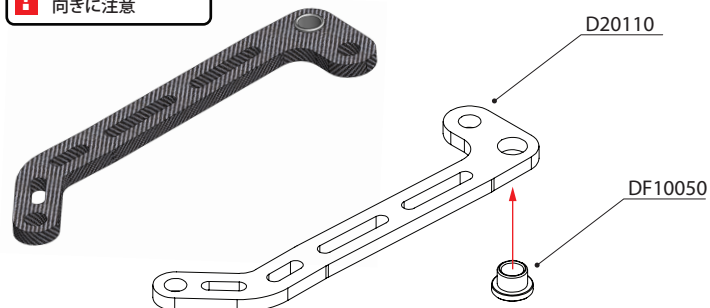
**DO NOT OVER
TIGHTEN**

D10102
M3x6 Flathead Screw

- D10102 M3x6 Flathead Screw, 10 pcs
- D20035 M3x25 Flathead Screw, 5 pcs
- D20036 M3 Nut, Thin, 10 pcs
- D20041 Rear Spring Adjuster Set
- D20107 Pivot Block (Derlin) (2.0)

5

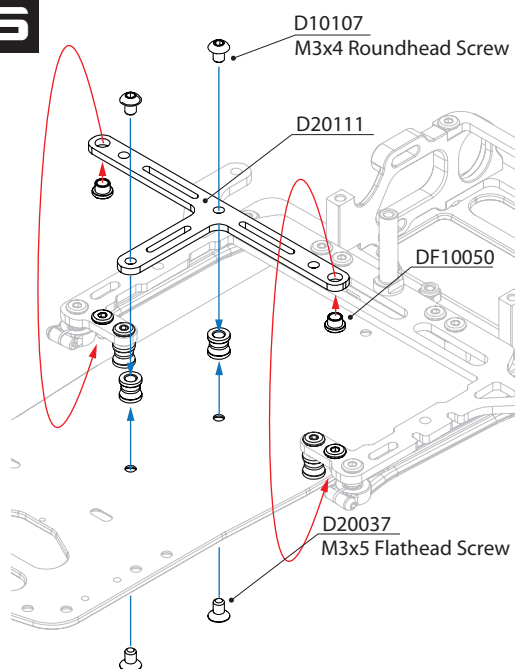
GRAPHITE SIDE BRACE

INITIAL
SETTING**X2** BUILD L/R SIDES
左右のサイドリンクの組み立て**NOTE DIRECTION**
向きに注意

NOTE
注意

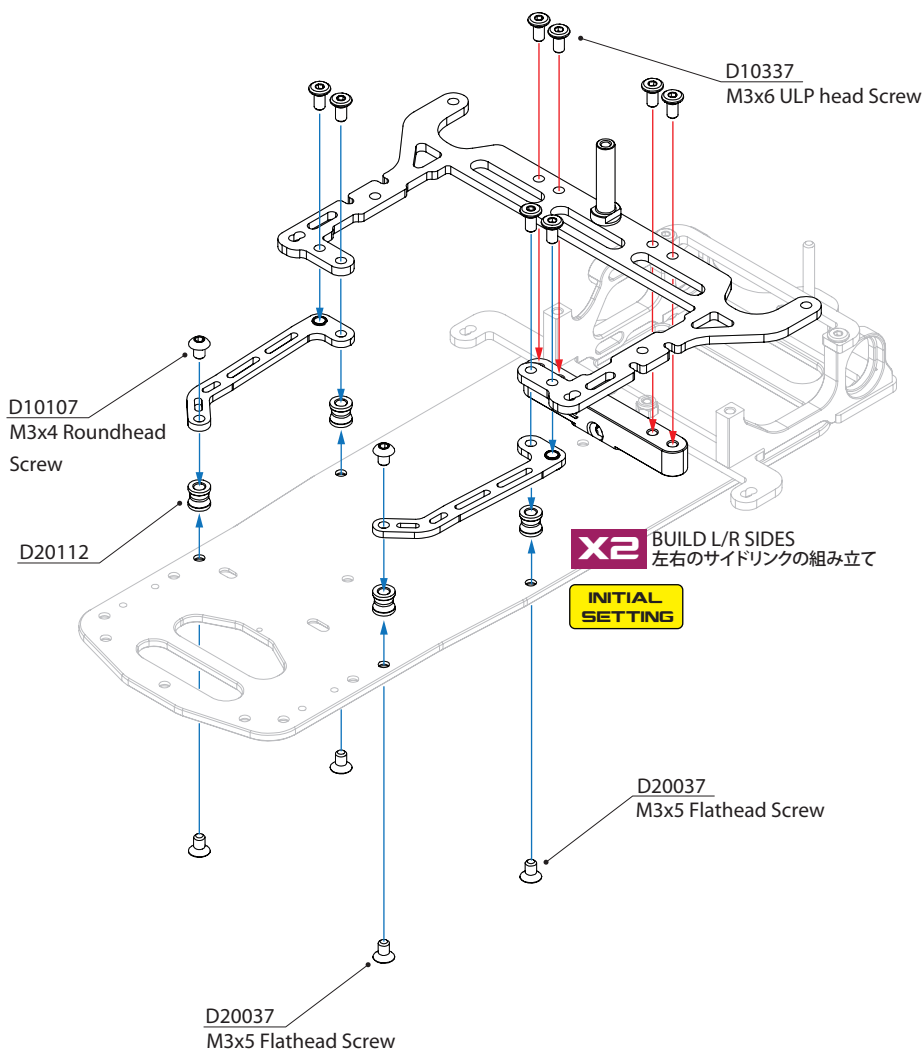
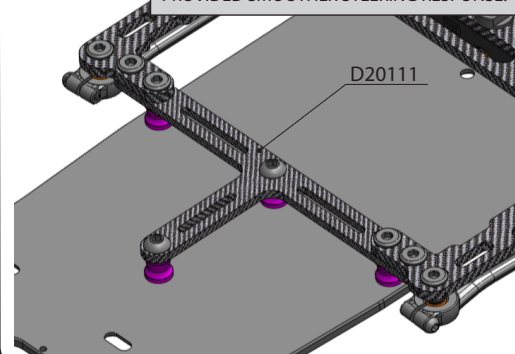
ENSURE ALUMINUM
INSERT NOT OVER THE
SURFACE.

6



GRAPHITE T BRACE

CHASSIS FLEX MORE THAN SIDE BRACE.
PROVIDED SMOOTHER STEERING RESPONSE.

**X2** BUILD L/R SIDES
左右のサイドリンクの組み立てINITIAL
SETTING

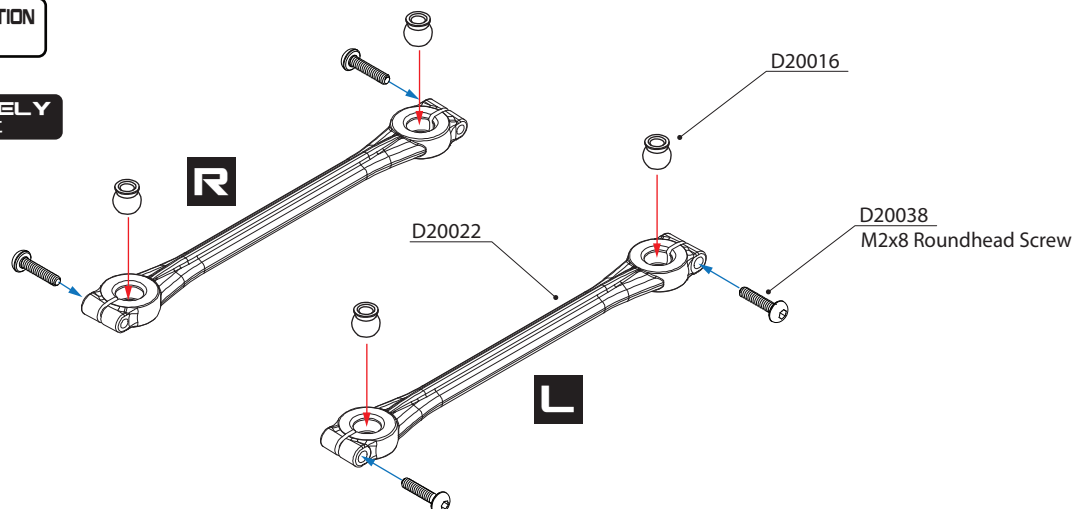
D10102 M3x6 Flathead Screw, 10 pcs
D10107 M3x4 Roundhead Screw, 10 pcs
D10337 M3x6 ULP head Screw, 10 pcs
D20037 M3x5 Flathead Screw, 10 pcs
D20067 Damper Post

D20109 Graphite Lipo Brace
D20110 Graphite Side Brace
D20111 Graphite T Brace
DF10050 M3 Aluminum Insert, Black

X2 BUILD L/R SIDES
左右のサイドリンクの組み立て

NOTE DIRECTION
向きに注意

MOVE FREELY
軽く動くように



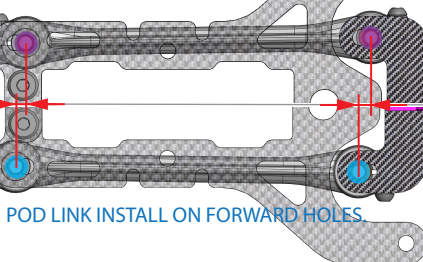
POD LINK POSITION

CHANGE POD LINK AND PIVOT MOUNT POSITION TO ADJUST CHASSIS ROTATION.

REARWARD :
PIVOT MOVED REARWARD AS SHORTER REAR POD GEOMETRY.
PROVIDES MORE INITIAL STEERING AND CHASSIS ROTATION.
GOOD FOR HIGH TRACTION CARPET TRACK.

FORWARD :
PIVOT MOVED TO FORWARD. PROVIDES MORE STABLE AND
EASIER TO DRIVE. MORE REAR TRACTION.

POD LINK INSTALL ON REARWARD HOLES.



POD LINK INSTALL ON FORWARD HOLES.

SHORT CENTER
PIVOT BALL
INSTALLATION.

LONG CENTER
PIVOT BALL
INSTALLATION.

**INITIAL
SETTING**

**INITIAL
SETTING**

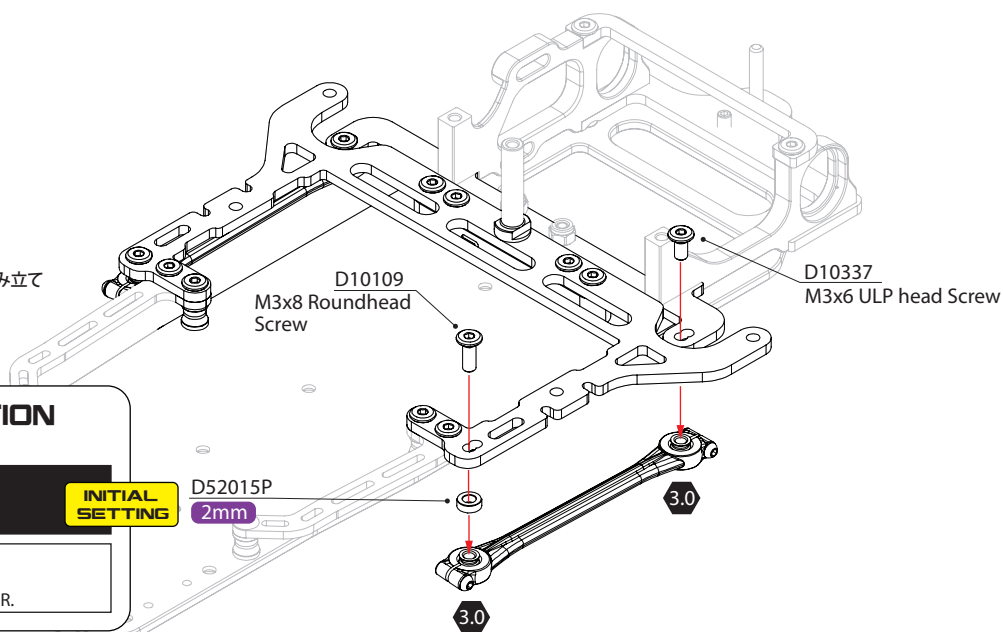
X2 BUILD L/R SIDES
左右のサイドリンクの組み立て

SIDE LINK POSITION [UP/DOWN]

- 2mm SHIM
MORE STEERING MID CORNER,
LESS STABILITY.

- 3mm SHIM
INCREASED REAR STABILITY,
REDUCED STEERING MID CORNER.

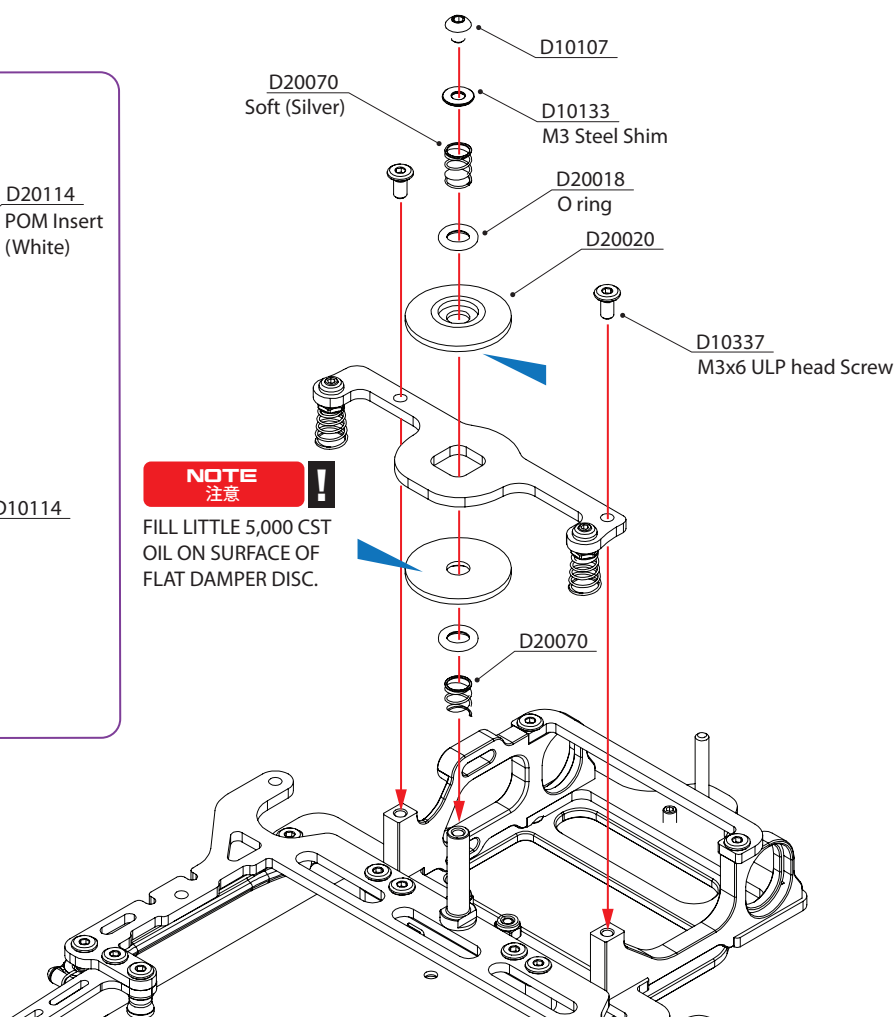
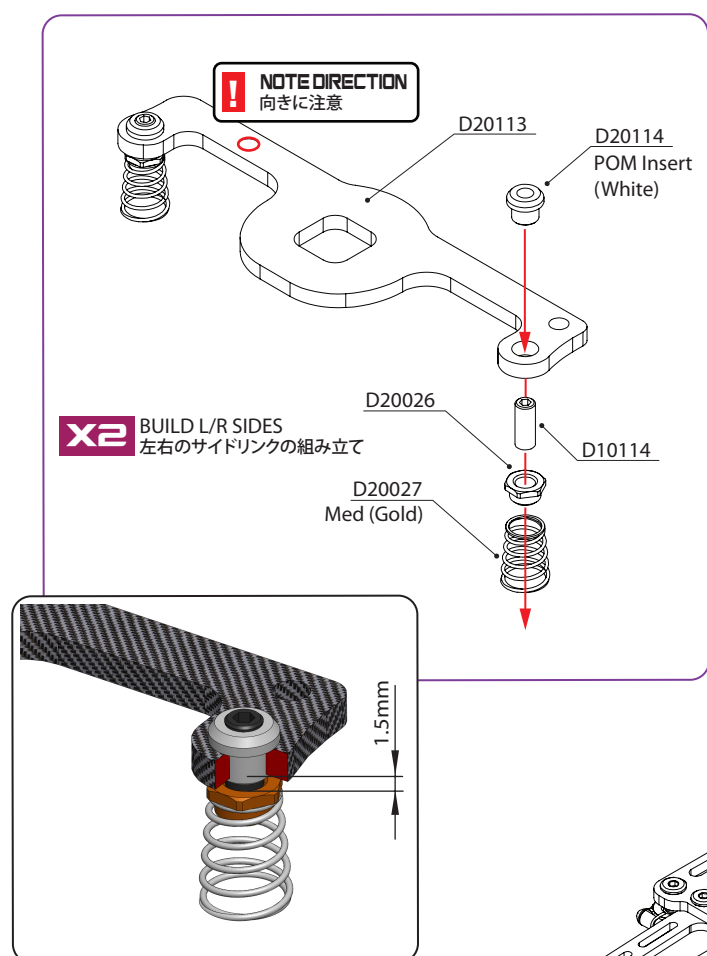
**INITIAL
SETTING**



D10109 M3x8 Roundhead Screw, 10 pcs
D10337 M3x6 ULP head Screw, 10 pcs
D20016 Aluminum 5mm Pivot Ball, 5 pcs

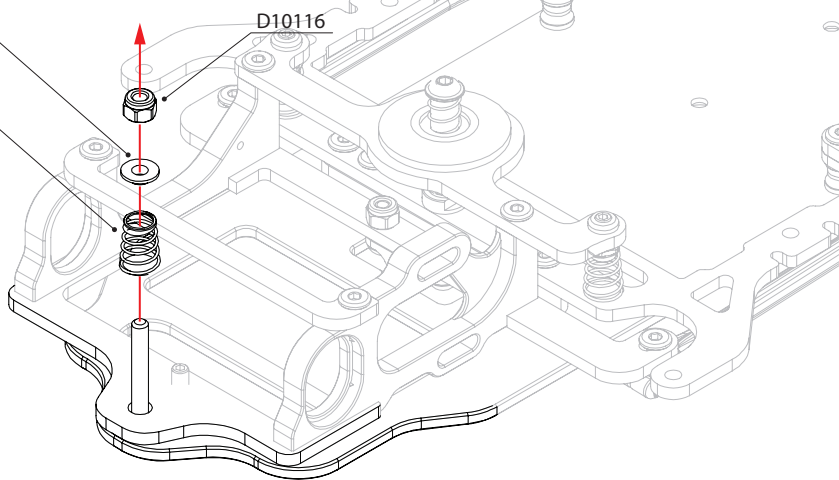
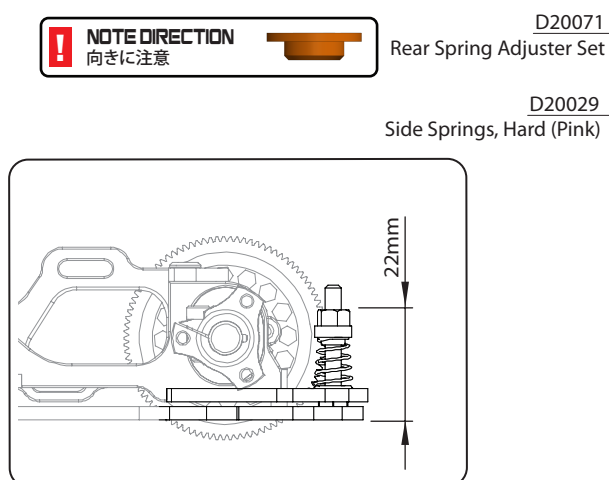
D20022 Short Pod Link (V2)
D20038 M2x8 Roundhead Screw, 10 pcs
D52015P 3x5.5x2mm Aluminum Spacer (Purple), 10 pcs

REAR DAMPER



Part No.	Side & Rear Springs
O20091	Side Springs, Soft, 2 pcs
D20027	Side Springs, Medium, 2 pcs
D20029	Side Springs, Hard, 2 pcs

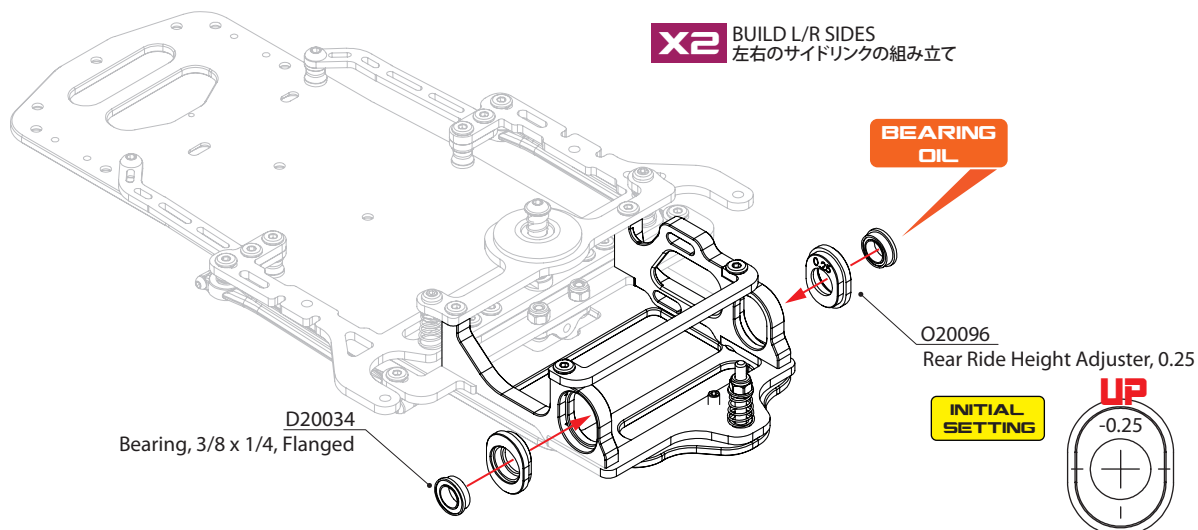
Part No.	Front & Center Damper Springs
D20070	Soft, Silver, 2 pcs
O20092	Med Soft, Black, 2 pcs
O20093	Med, Gold, 2 pcs
O20126	Hard, Zinc, 2 pcs



D10107 M3x4 Roundhead Screw, 10 pcs
 D10114 M3x8 Set Screw, 10 pcs
 D10133 3mm Spacer (Steel), 10 pcs
 D10337 M3x6 ULP head Screw, 10 pcs
 D20018 Center Damper O ring, 2 pcs

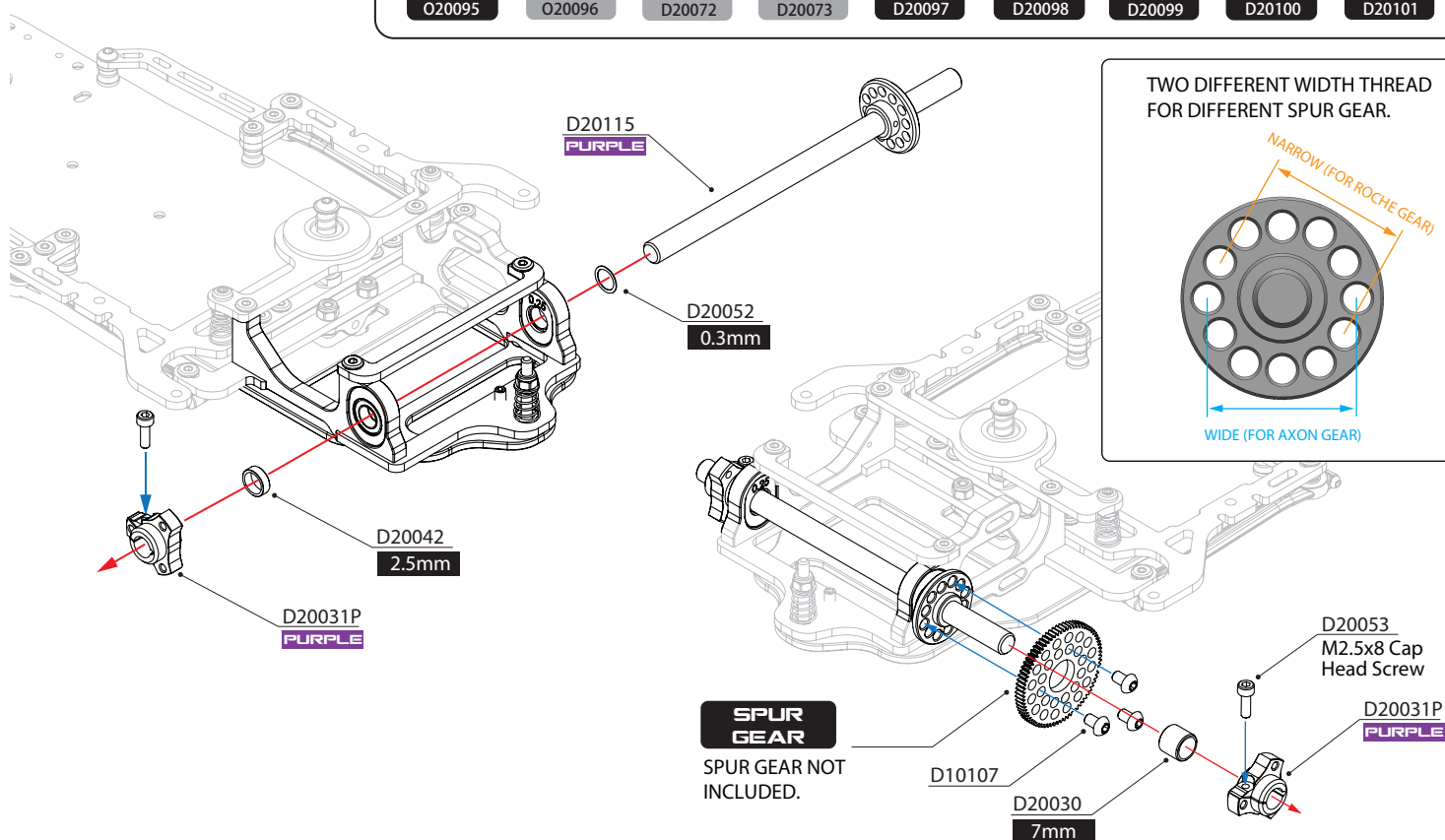
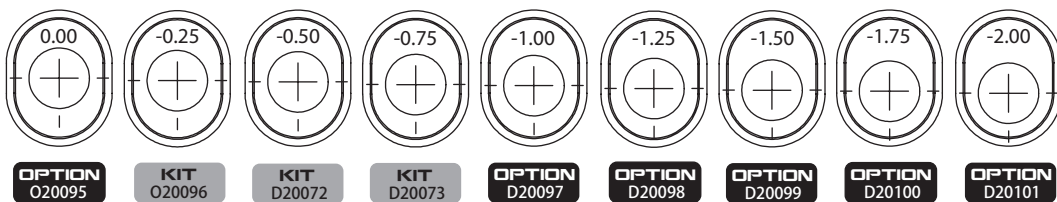
D20020 Flat Damper Disc, 2 pcs
 D20026 Aluminium Side Spring Retainer
 D20027 Side Springs, Medium, 2 pcs
 D20113 Graphite Damper Plate
 D20070 Center Damper Spring, Soft, 2 pcs

REAR SOLID AXLE

BAG
B

AXLE HEIGHT ADJUSTER

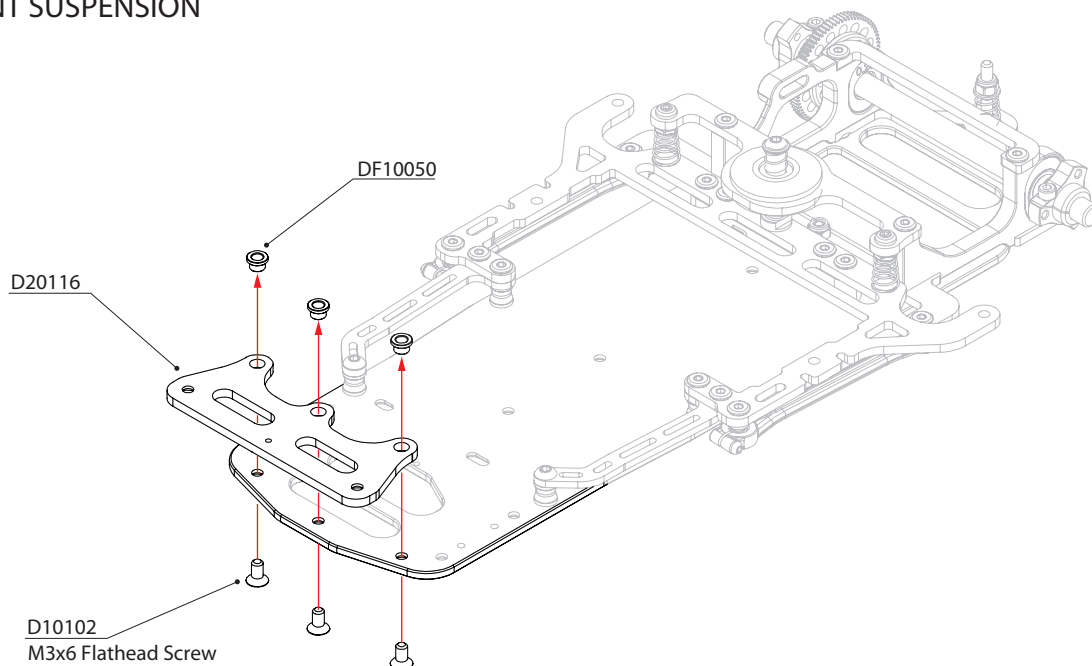
0.25mm per step fine ride height adjustment



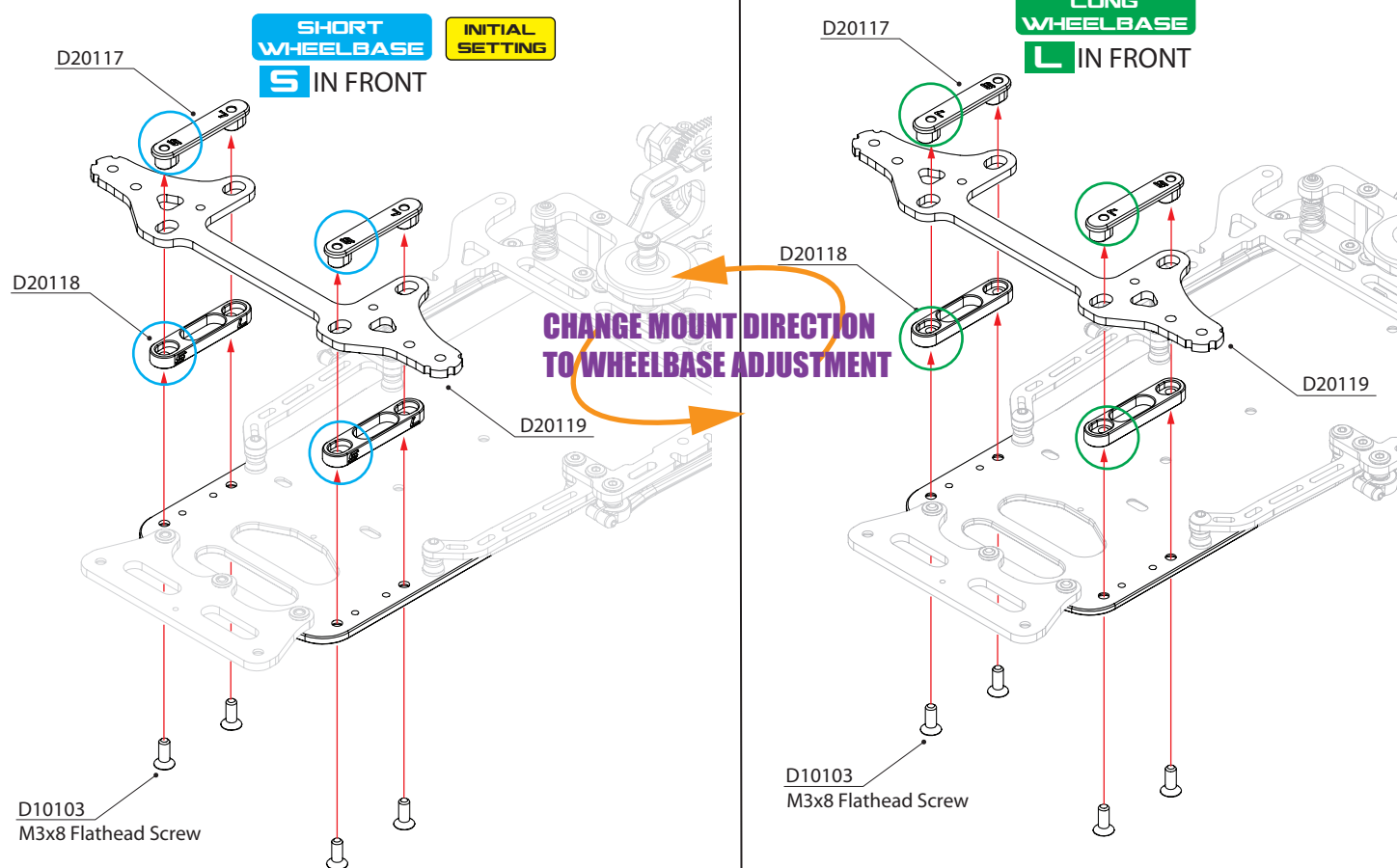
D50007 M3x5 Roundhead Screw, 10 pcs
 D20030 Rear Axle Spacer, 7mm
 D20031P Aluminum Wheel Hub, Left, Purple
 D20034 Bearing, 3/8 x 1/4, Flanged, 2 pcs

D20042 Rear Axle Spacer, 2.5mm
 D20052 Rear Axle Spacer Shim Set (0.1/0.2/0.3mm)
 D20053 M2.5x8 Cap head Screw, 10 pcs
 D20115 Carbon Solid Axle, Purple

BAG C



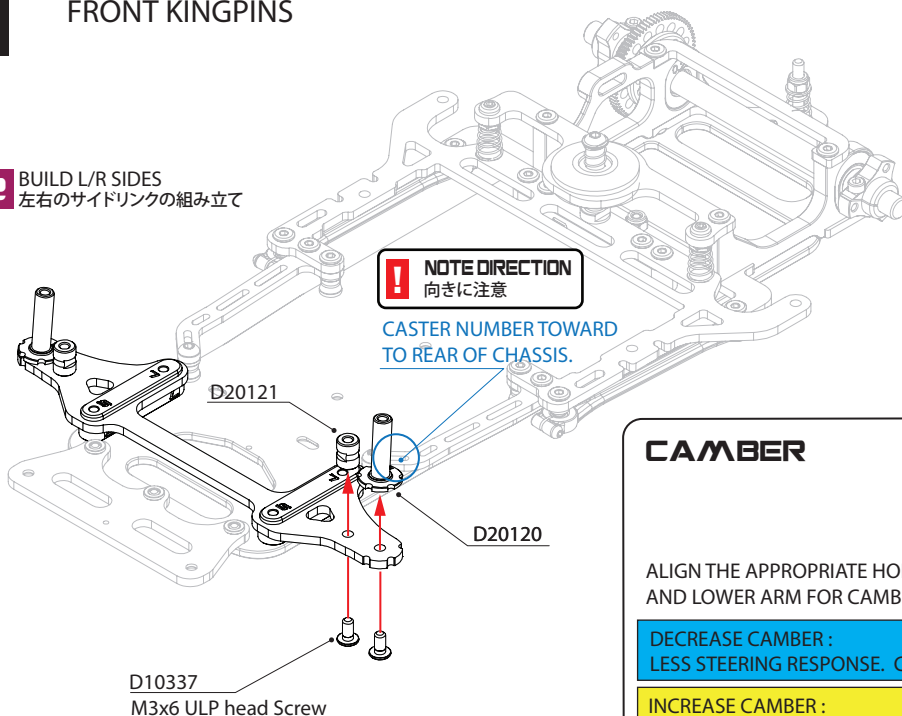
X2 BUILD L/R SIDES
左右のサイドリンクの組み立て



DF10050 M3 Aluminum Insert, Black
D10102 M3x6 Flathead Screw, 10 pcs
D10103 M3x8 Flathead Screw, 10 pcs

D20116 Graphite Front Lower Bumper
D20117 Aluminum Front Upper Block
D20118 Aluminum Front Lower Block
D20119 Graphite Front Lower Arm

X2 BUILD L/R SIDES
左右のサイドリンクの組み立て

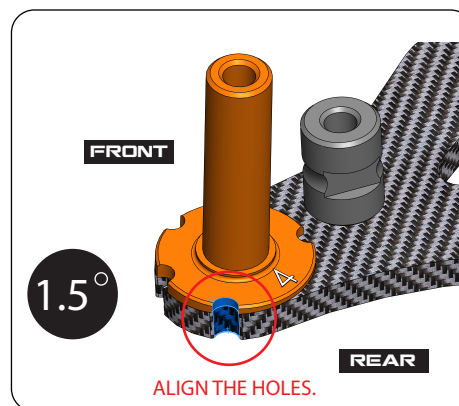
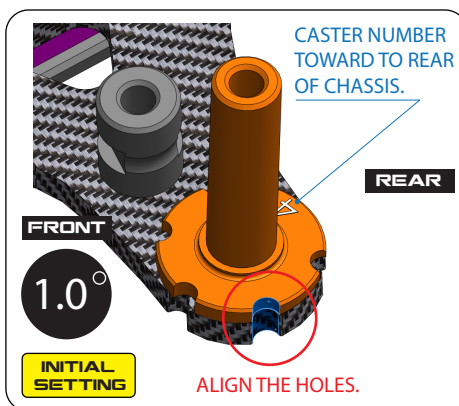
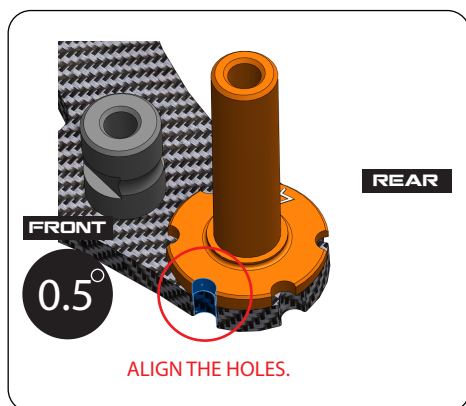
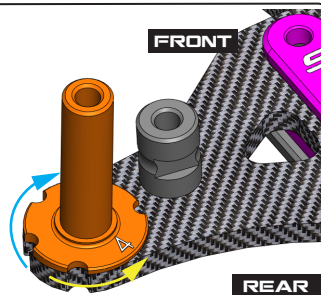


CAMBER

ALIGN THE APPROPRIATE HOLES OF KINGPIN AND LOWER ARM FOR CAMBER SETTINGS.

DECREASE CAMBER :
LESS STEERING RESPONSE. CAR MORE STABLE.

INCREASE CAMBER :
MORE STEERING RESPONSE.



CASTER

CASTER ADJUSTED BY DIFFERENT KINGPIN.

INCREASE CASTER :
MORE CORNERING SPEED, MAKE CAR MORE STABLE.

DECREASE CASTER :
MORE REACTIVE STEERING. MORE STEERING RESPONSE.

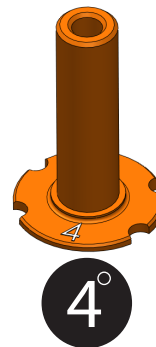
OPTION

O20128



KIT

D20120



OPTION

O20129



D10337 M3x6 ULP head Screw, 10 pcs

D20120 Aluminum King Pin, 4 Deg

D20121 Aluminum Standoff (8mm), 2 pcs

O20128 Aluminum King Pin, 3 Deg

OPTION

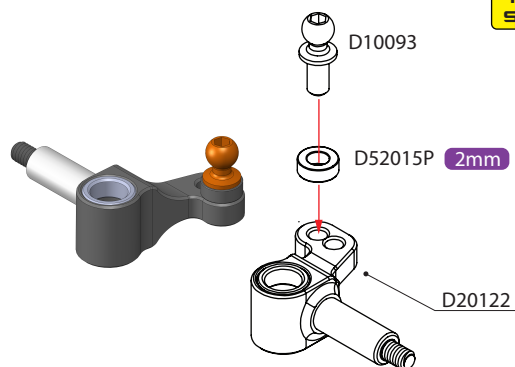
O20129 Aluminum King Pin, 5 Deg

OPTION

16

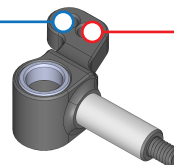
STEERING KNUCKLES INSTALLATION

STEERING LINK POSITION



INITIAL SETTING

INNER :
EASIER TO DRIVE, SMOOTH RESPONSE.



OUTER :
MORE AGGRESSIVE,
QUICK RESPONSE.

X2 BUILD L/R SIDES
左右のサイドリンクの組み立て

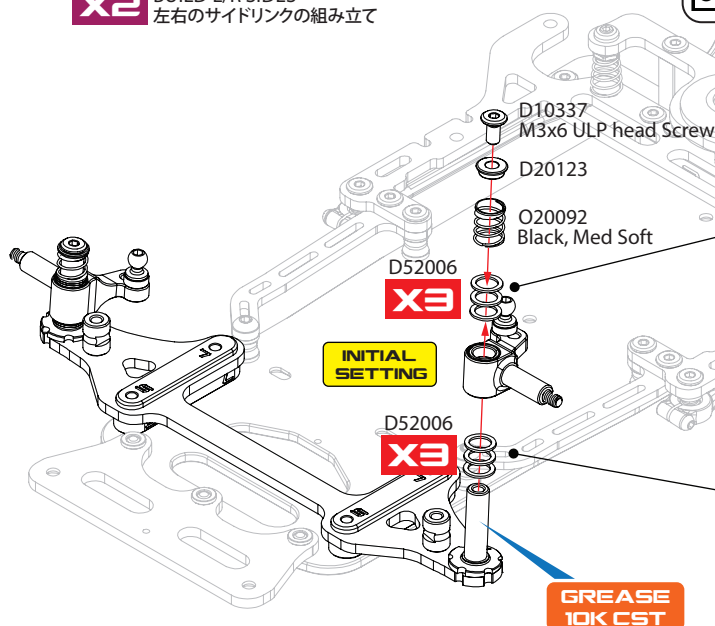
Part No.	Front & Center Damper Springs
D20070	Soft, Silver, 2 pcs
O20092	Med Soft, Black, 2 pcs
O20093	Med, Gold, 2 pcs
O20126	Hard, Zinc, 2 pcs

FRONT DROOP

ADD/REMOVE SHIMS ON STEERING KNUCKLE TO ADJUST THE FRONT DROOP. QUANTITY OF SHIMS ALSO RELATED TO FRONT RIDE HEIGHT.

MORE DROOP :
LESS SHIM MAKES MORE FRONT DROOP.
MORE FRONT ROLLING, LESS STEERING RESPONSE.
SUIT FOR LOW OR MED TRACTION TRACK.

LESS DROOP :
MORE SHIM MAKES DECREASE FRONT DROOP.
LESS FRONT ROLLING, QUICKER STEERING RESPONSE.
SUIT FOR HIGH TRACTION CARPET TRACK.



INITIAL SETTING

X3

GREASE 10K CST

FRONT RIDE HEIGHT

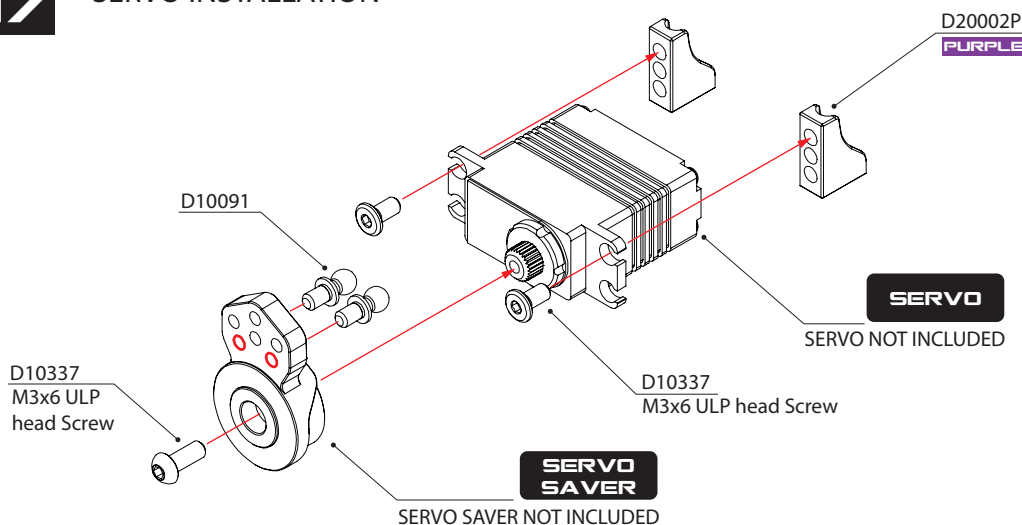
THICKNESS OF SHIMS UNDER THE STEERING KNUCKLE TO ADJUST THE FRONT RIDE HEIGHT. WE RECOMMEND TO CHANGE SHIMS POSITION (TOP/BOTTOM) ON STARTING SETTING. QUANTITY OF SHIMS ALSO RELATED TO FRONT DROOP.

MORE SHIM :
DECREASE RIDE HEIGHT.

LESS SHIM :
INCREASE RIDE HEIGHT.

17

SERVO INSTALLATION



D20002P
PURPLE

SERVO

SERVO NOT INCLUDED

SERVO SAVER

SERVO SAVER NOT INCLUDED

OPTION

O20065
Alum Servo Saver Horn for Xray Saver (7.5)

D40006
Alum Servo Saver Horn for Xray Saver (7.0)

Two different steering links mount position, the 7.5mm gives less steering response while the 7mm increases.

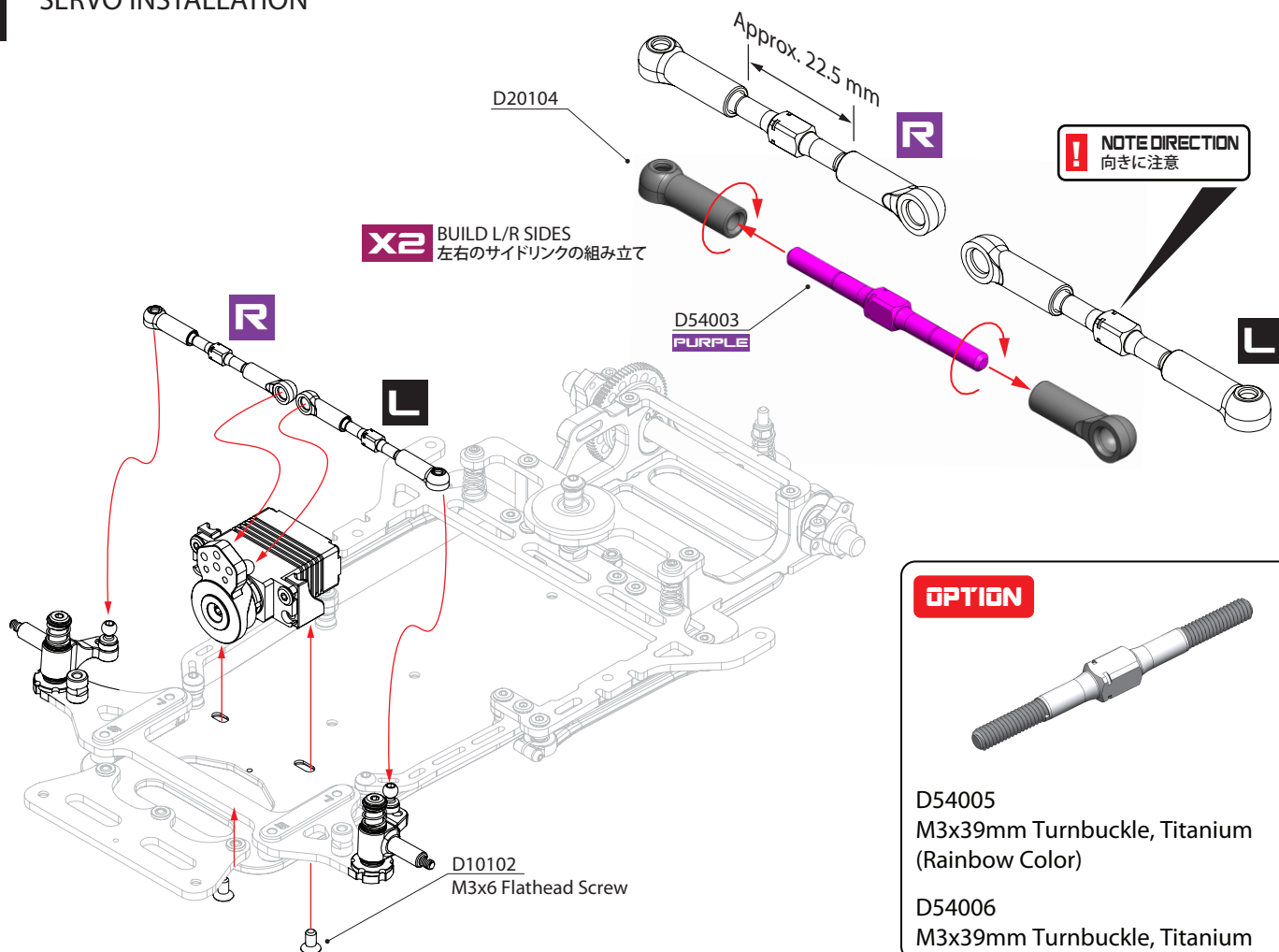


D10091 Aluminum 4.3x10.8 Ballstud
D10093 Aluminum 4.3x11.8 Ballstud
D10337 M3x6 ULP head Screw, 10 pcs
D20122 Steering Knuckle Set
D20123 Aluminum Front Spring Washer, 2 pcs

D20002P Aluminum Servo Mount, 2 pcs, Purple
O20092 Front/Center Damper Spring, Med Soft, Black, 2 pcs
D52006 5x7x0.5mm Spacer (Steel), 10 pcs
D52015P 3x5.5x2mm Aluminum Spacer (Purple), 10 pcs

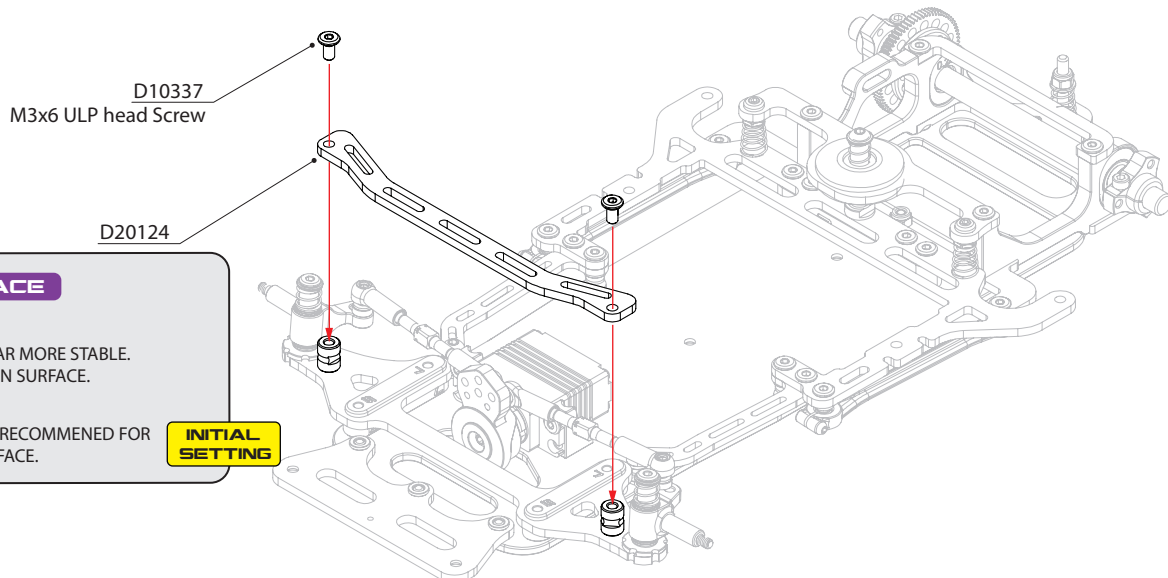
18

SERVO INSTALLATION



19

FRONT BRACE



FRONT CHASSIS BRACE

NO BRACE :

LESS STEERING RESPONSE, MAKE CAR MORE STABLE.
RECOMMENDED FOR LOW TRACTION SURFACE.

WITH BRACE :

MORE MORE STEERING RESPONSE. RECOMMENDED FOR
MEDIUM AND HIGH TRACTION SURFACE.

**INITIAL
SETTING**

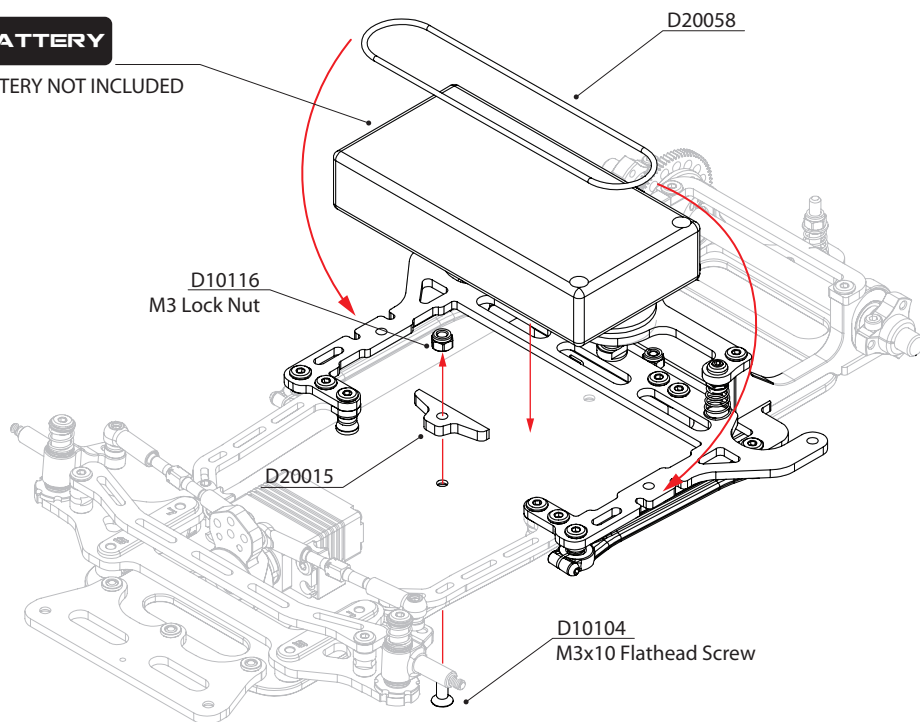
- D10102 M3x6 Flathead Screw, 10 pcs
- D10337 M3x6 ULP head Screw, 10 pcs
- D20104 4.3x15mm Plastic Ball Cup, Long, 4 pcs
- D20124 Graphite Front Chassis Brace
- D54003 M3x39mm Turnbuckle, Aluminum, Purple

20

BATTERY INSTALLATION

**BATTERY**

BATTERY NOT INCLUDED



21

ELECTRIC ITEMS INSTALLATION

PINON GEAR

PINON GEAR NOT INCLUDED

MOTOR

MOTOR NOT INCLUDED

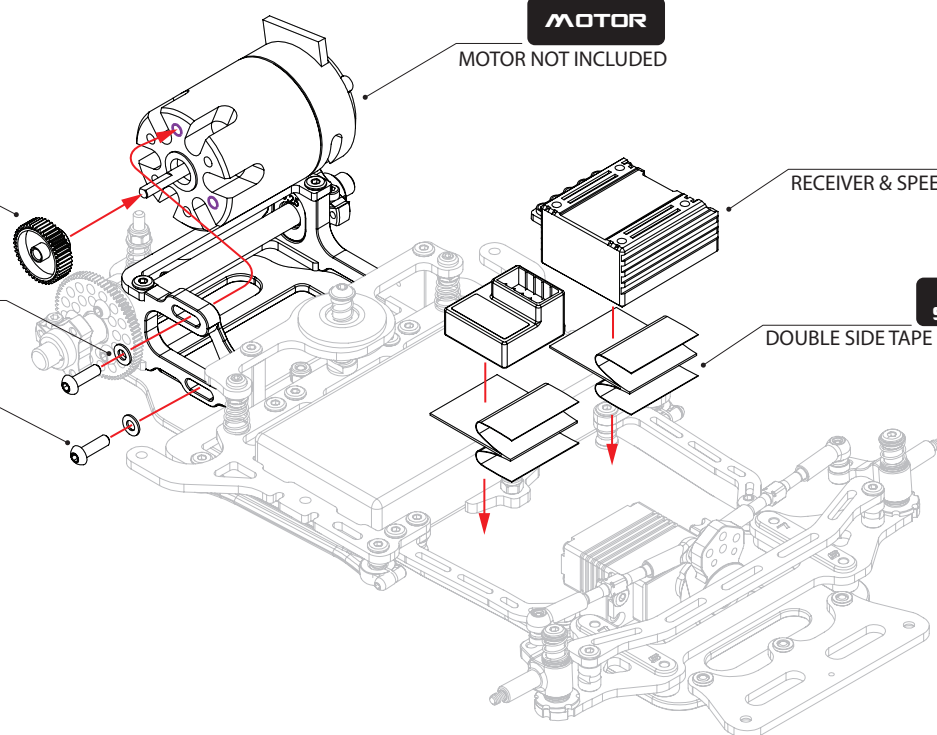
RECEIVER SPEEDO

RECEIVER & SPEEDO NOT INCLUDED

DOUBLE SIDE TAPE

DOUBLE SIDE TAPE NOT INCLUDED

D10133
D10109
M3x8 Roundhead Screw



D10104 M3x10 Flathead Screw, 10 pcs
D10109 M3x8 Roundhead Screw, 10 pcs
D10116 M3 Lock Nut, 10 pcs
D10133 3mm Spacer (Steel), 10 pcs

D20015 Graphite Lipo Stop
D20058 Battery O ring, 3 pcs

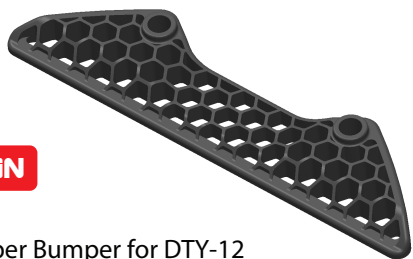
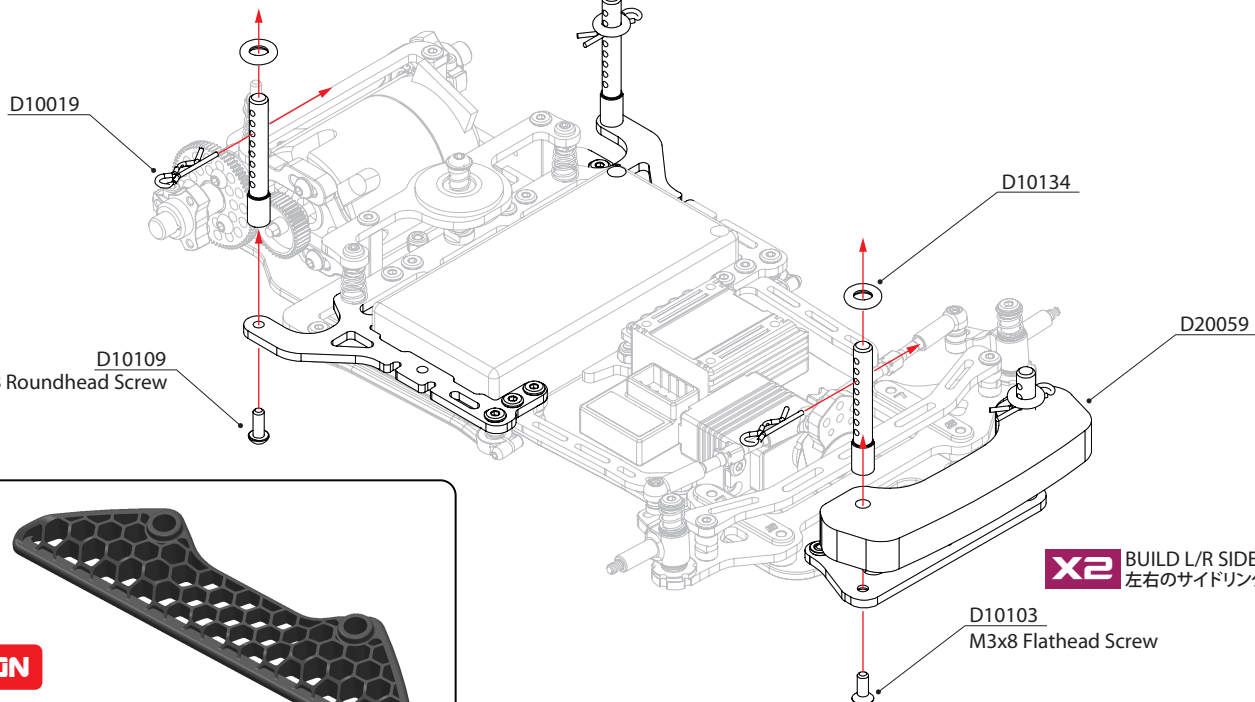
22

BODY POSTS INSTALLATION

X2

BUILD L/R SIDES

左右のサイドリンクの組み立て

D20019
Body Post, 2 pcs**OPTION**

O20127

3D Rubber Bumper for DTY-12

X2

BUILD L/R SIDES

左右のサイドリンクの組み立て

D10103

M3x8 Flathead Screw

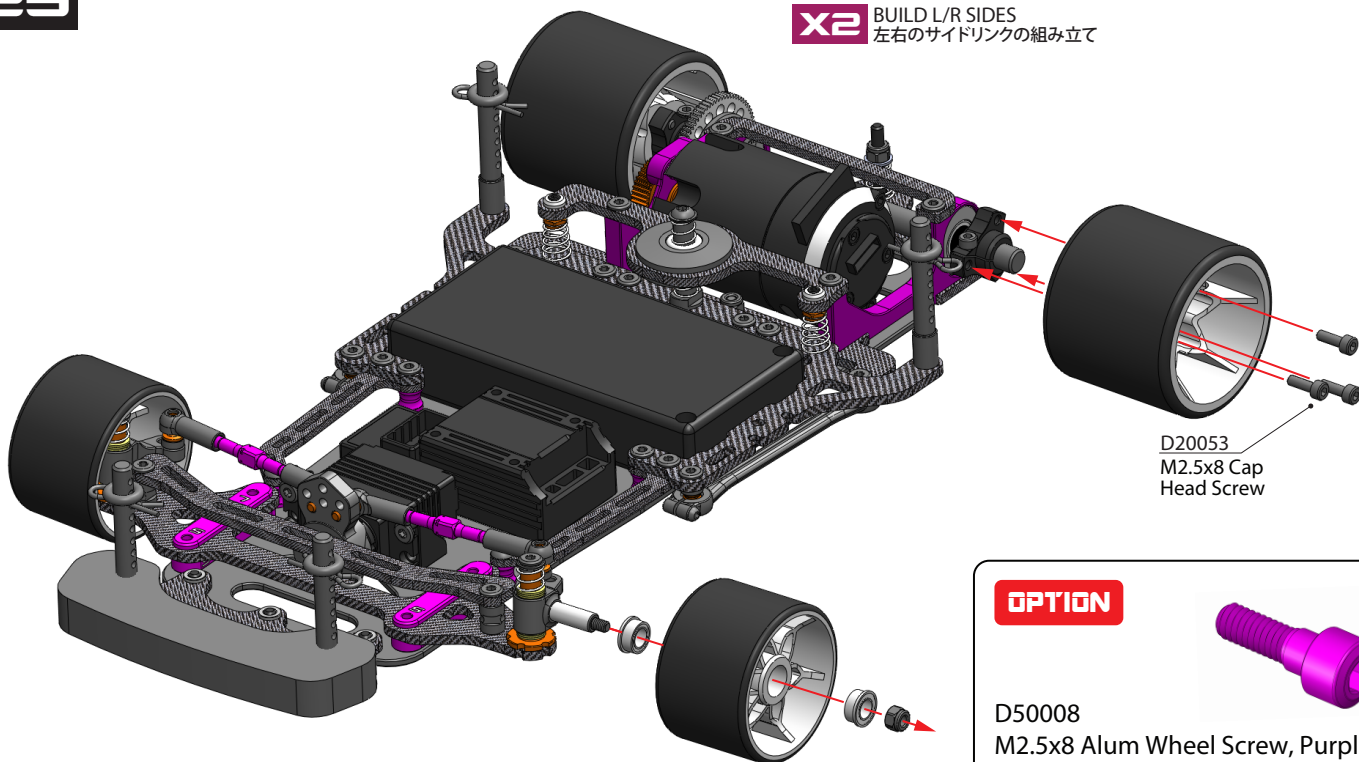
23

TIRES INSTALLATION

X2

BUILD L/R SIDES

左右のサイドリンクの組み立て

D20053
M2.5x8 Cap
Head Screw**OPTION**

D50008

M2.5x8 Alum Wheel Screw, Purple, 6 pcs

D10019 Body Clips
 D10103 M3x8 Flathead Screw, 10 pcs
 D10109 M3x8 Roundhead Screw, 10 pcs
 D10116 M3 Lock Nut, 10 pcs
 D10134 Body Cushions, 10 pcs

D20053 M2.5x8 Cap Head Screw, 10 pcs
 D20125 Urethane Foam Bumper, Hard
 D56001 Bearing, 3/16 x 5/16, Flanged, 2 pcs

DATE		/ /		TRACK				TRACTION		HIGH  LOW ☐ ☐ ☐ ☐ ☐	
DRIVER NAME				CONDITION		☐ CARPET ☐ ASPHALT		TEMP.		AIR TRACK	
EVENT				BEST LAP TIME				QUALIFYING POSITION			

REAR DAMPER SPRING

☐ SOFT

☐ MEDIUM

☐ HARD

OTHERS _____

LENGTH _____ /mm

DOWN STOP _____ /mm

The diagram illustrates the front and rear chassis assembly. Key components and adjustment points are labeled:

- FRONT** (Left side)
- REAR** (Right side)
- UPRIGHT SPACER**: A label pointing to the front upright assembly with a box for the value in mm.
- PIVOT BALL SPACER**: A label pointing to the pivot ball assembly with a box for the value in mm.
- RIDE HEIGHT**: Four labels with boxes for the value in mm, each with a red arrow pointing to the ground line:
 - Front left (at the front wheel)
 - Front right (at the pivot ball)
 - Rear left (at the rear wheel)
 - Rear right (at the rear wheel)

FRONT SPRING

☐ SOFT
 ☐ MEDIUM

☐ HARD
 OTHERS _____

CASTER

☐ 3°
 ☐ 4°
 ☐ 5°

CAMBER

_____ °

STEERING LINK

SHIMS シム

_____ /mm

_____ /mm

WIDTH SPACERS

_____ /mm

FRONT BRACE

☐ YES
 ☐ NO

KINGPIN OIL

_____ /CST

Technical drawing of a chassis layout, showing various components and their dimensions. The drawing includes the following labels and dimensions:

- TOE ANGLE**: Indicated by a red arrow pointing to the front suspension arm.
- ACKERMANN**: Indicated by a red arrow pointing to the front suspension arm.
- POD LINK POSITION**: Indicated by a red arrow pointing to the pod link.
- WIDTH 全幅**: Indicated by a red arrow pointing to the overall width of the chassis.
- WHEELBASE**: Indicated by a red arrow pointing to the distance between the front and rear axles.
- CHASSIS BRACE**: Indicated by a red arrow pointing to the chassis brace.
- LONG**: Indicated by a red arrow pointing to the long wheelbase option.
- SHORT**: Indicated by a red arrow pointing to the short wheelbase option.
- SIDE BRACE**: Indicated by a red arrow pointing to the side brace.
- T BRACE**: Indicated by a red arrow pointing to the T brace.

RIDE HEIGHT		☐ 0.00	DIFF SETTING	
	☐ -0.25	☐ SPOOL	☐ BALL DIFF 	
	☐ -0.50	☐ TIGHT		
	☐ -0.75	☐		
	☐ -1.00	☐ MEDIUM		
	☐ -1.25	☐		
	☐ -1.50	☐ LOOSE		
	☐ -1.75			
	☐ -2.00			
AXLE POSITION				
☐ UP	☐ DOWN			

FRONT	REAR
TIRE 	TIRE
DIAMETER /mm	DIAMETER /mm
ADDITIVE 	ADDITIVE
ADDITIVE TIME /MINS	ADDITIVE TIME /MINS
ADDITIVE AREA 	ADDITIVE AREA

MOTOR			ROTOR			MOTOR TIMING		
		TURN			/mm			
PINION GEAR			SPUR GEAR			FINAL RATIO		
		T			T			ROLLOUT
ESC			SETUP					
BATTERY			BODY			TOTAL WEIGHT		
								/grams

MEMO	
	VER.1.0 DTY-12F

The background of the entire image is a dynamic scene of dark grey and black rock fragments shattering and flying outwards from a central point, creating a sense of intense impact and energy.

ROCHE

ROCHE PRODUCTS INTERNATIONAL

DESTINY

WWW.ROCHERC.COM