



LabC8-SR Instruction Manual rel. 1.0 (06/2018)

- Symbols -

Capricorn RC

L/R

Symmetrical
Mounting

2x

Assemble as many
times as specified

1 2
3 4

Assemble in the
specified order

Note:
TEXT....

Be Careful

WARNING

This radio control model is not toy.

First time builders should seek the advice of experienced modellers before beginning assembly and/or if they do not fully understand any part of the construction. We highly advise to read the instruction manual before assembly, and to always keep it at hand for reference. Take care before operating this model; you are responsible for its assembly and safe operation. The extreme performance of this model could be underestimated by inexperienced drivers and could damage objects and/or people. Assemble this kit only in places out of children's reach!

CAPRICORN RC is not responsible for any damage or harm caused by improper use or assembly.

CAPRICORN RC and its distribution network are not responsible for any damage caused by shipping or handling.

Eventual parts missing from the kit or flawed must be reported within two weeks of purchase to your local hobby shop or distributor. For best performance, we highly advise to only use original authentic CAPRICORN RC parts.

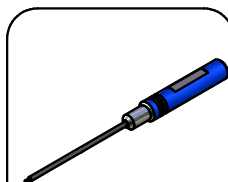
For customer support and service please contact your local hobby shop or agent from whom you purchased this item.

Contents of box may slightly differ from the pictures shown. Construction tools, body, tires, radio system and servo, ESC, motor and battery pack are NOT INCLUDED unless otherwise stated.

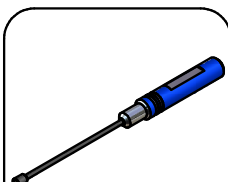
Made in Italy



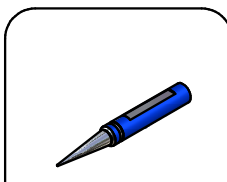
Tools needed for assembly (NOT INCLUDED)



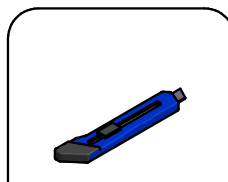
Hex Wrench
1,5/2/2,5/3/4mm



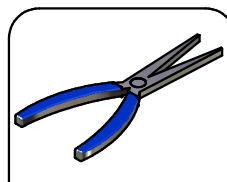
Box Wrench
5,5 / 7mm



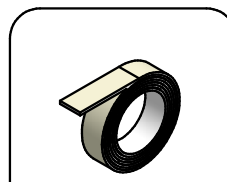
Reamer



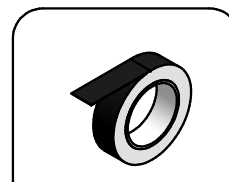
Cutter



Pliers

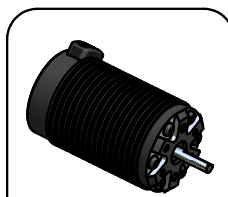


Double side
Tape

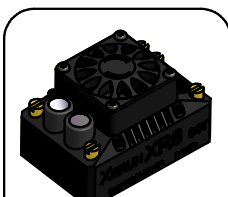


Fiber Glass
Tape

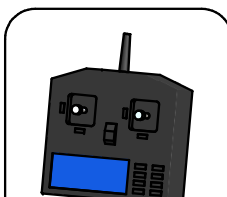
Parts for model completion and Start (NOT INCLUDED)



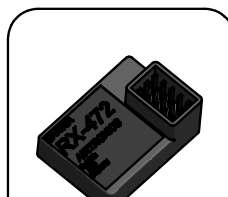
1900 KV Motor



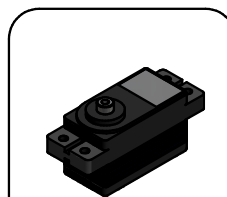
ESC



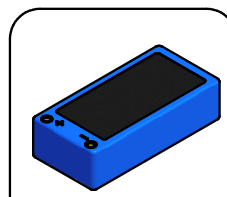
Transmitter



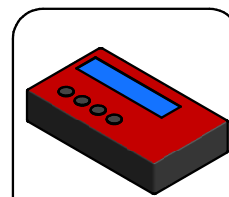
Receiver



Steering
Low Profile Servos



Li-Po Battery Pack



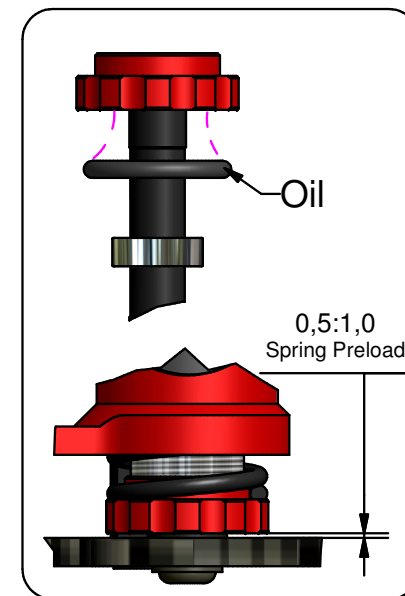
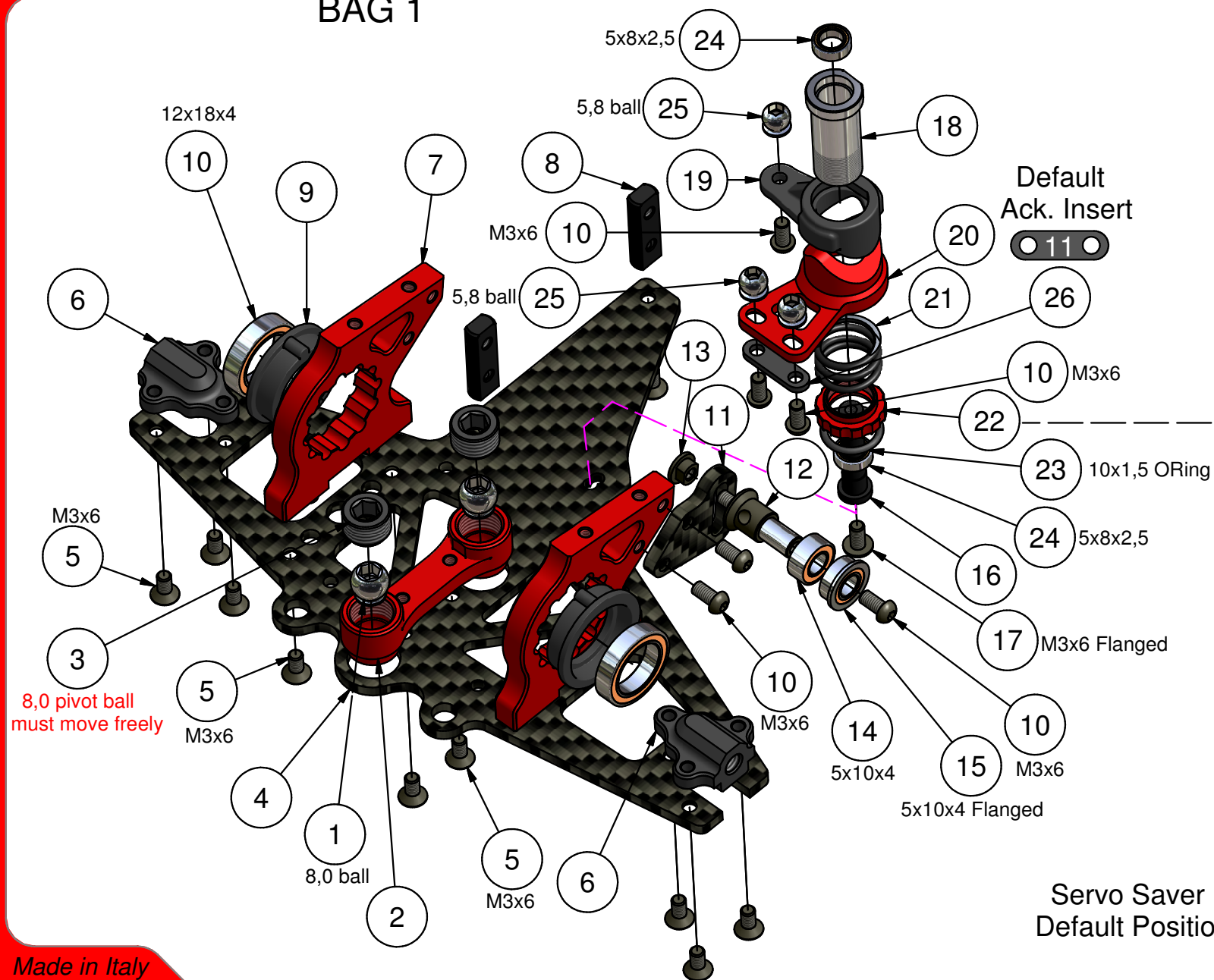
Battery Charger

Also required: Tires - Polycarbonat body

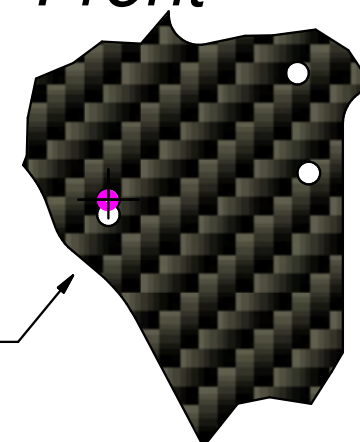
Step 1.0

- Front Assembly - BAG 1

Capricorn RC



Front



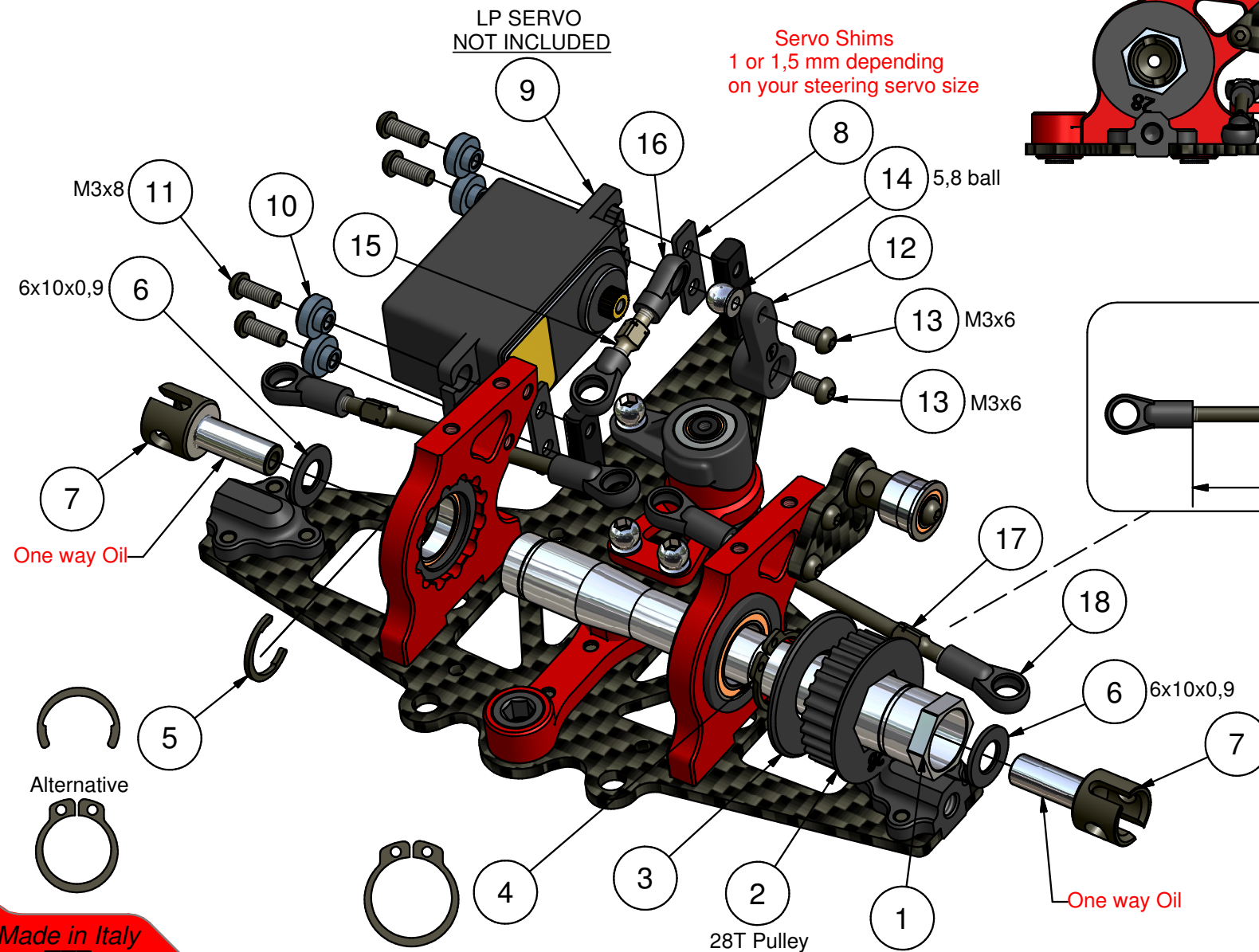
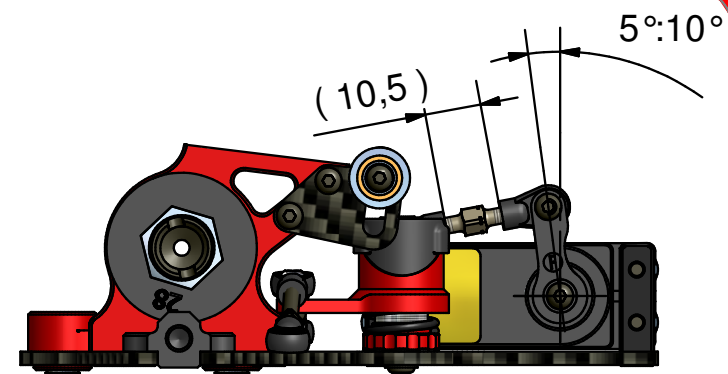
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Step 1.1

- Front Assembly - BAG 1

Capricorn RC

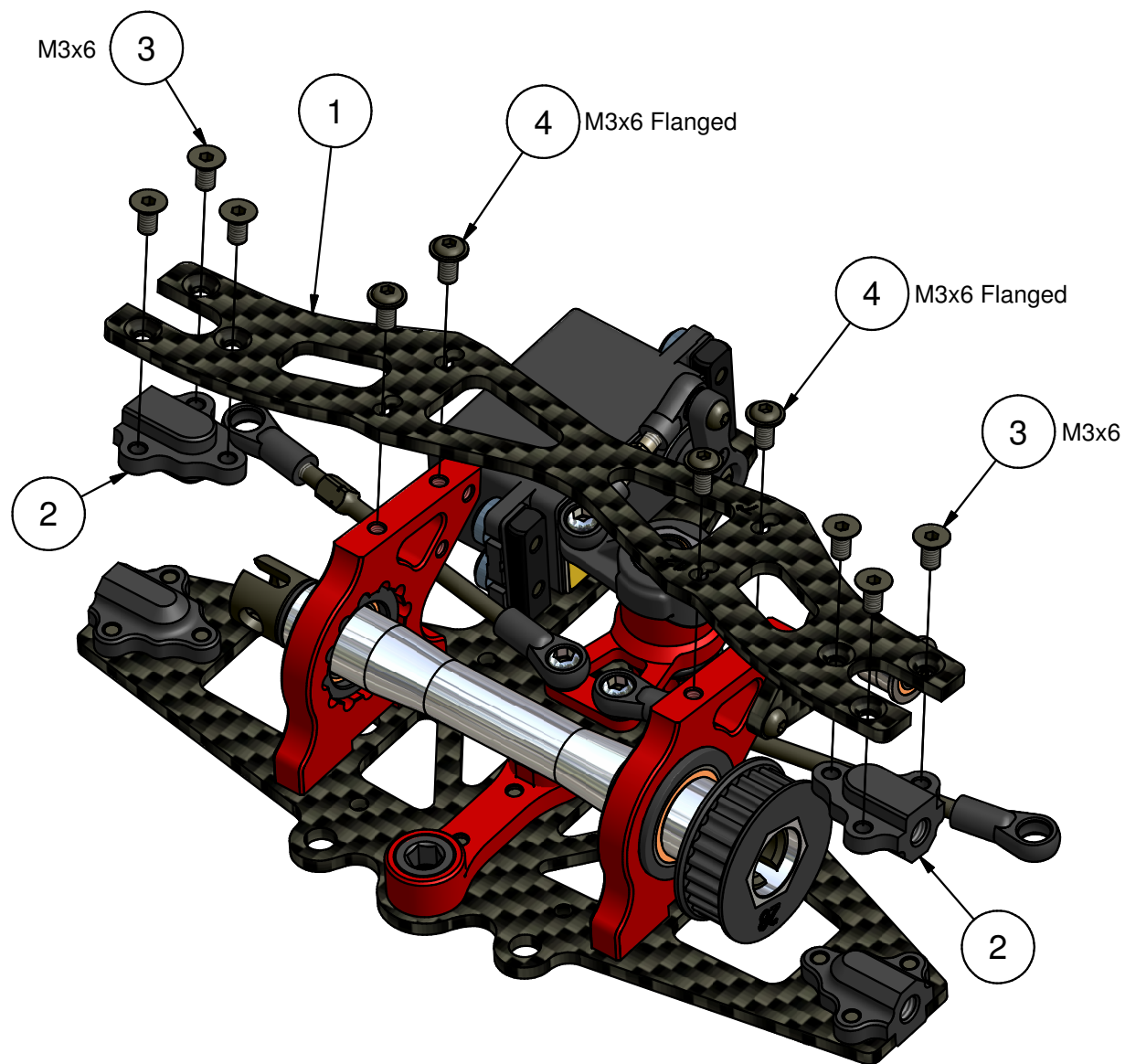


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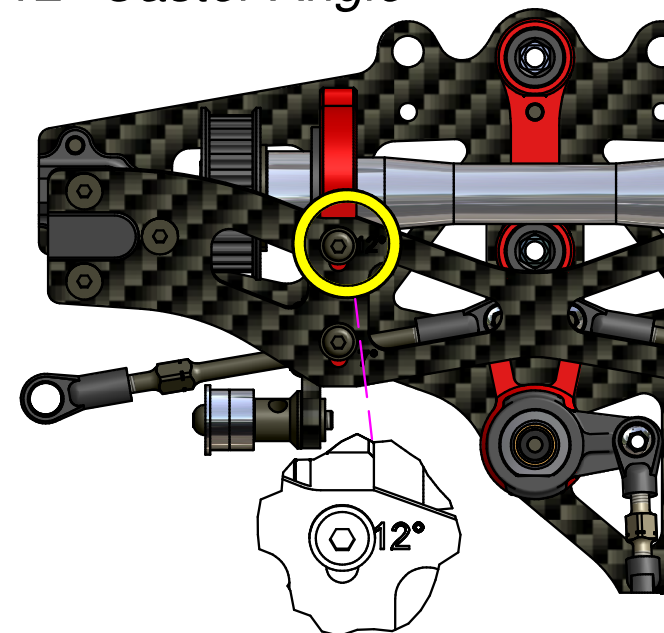
Step 1.2

- Front Assembly -
BAG 1

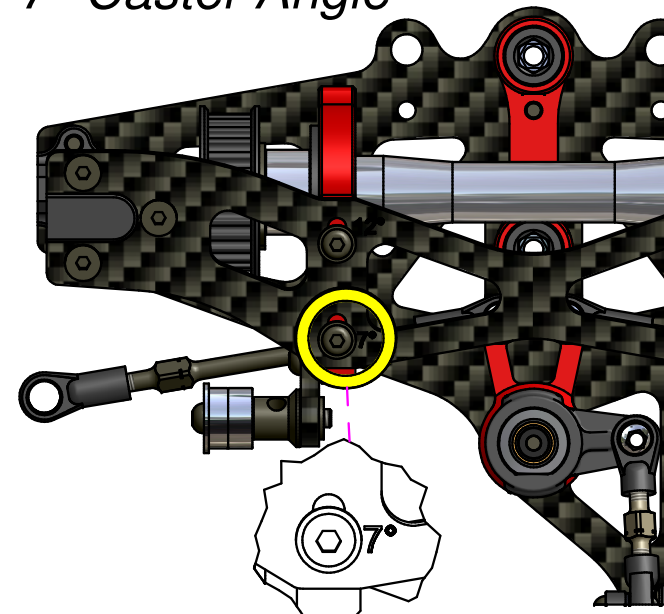
Capricorn RC



12° Caster Angle



7° Caster Angle



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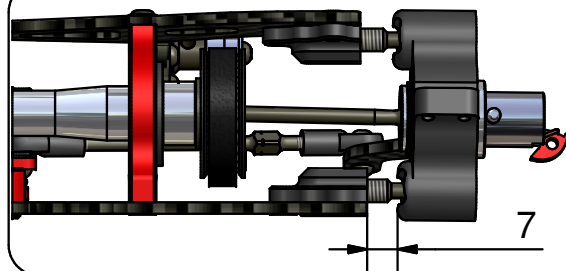


Step 2.0

- Front Assembly - BAG 2

Capricorn RC

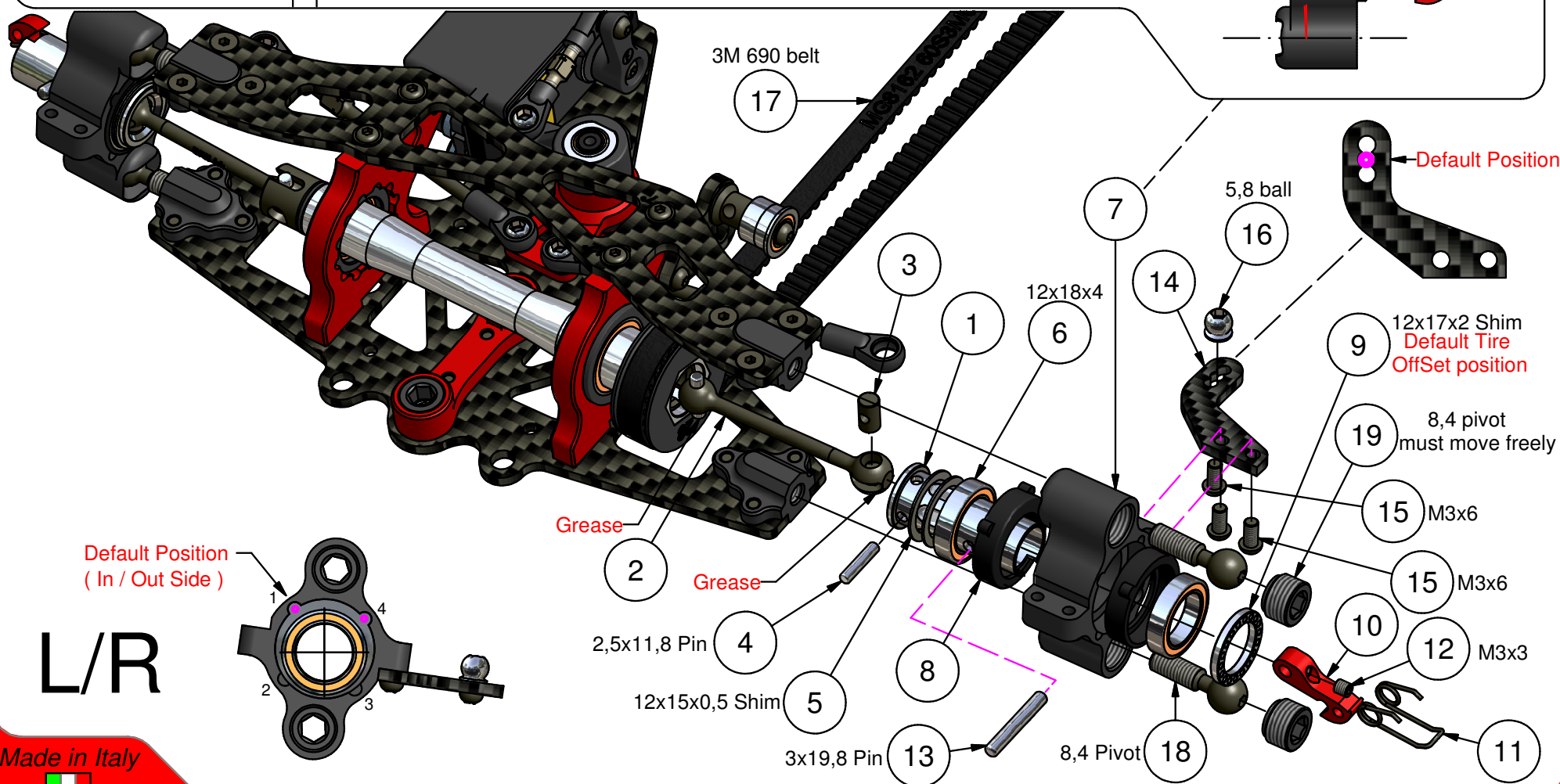
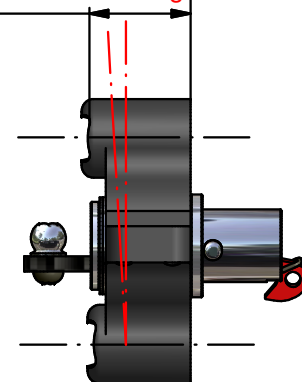
+1 UP initial KING-PIN Setting



L/R

NOTE:

Reverse 180° position
for more steering and sensibility
on entry and center curve



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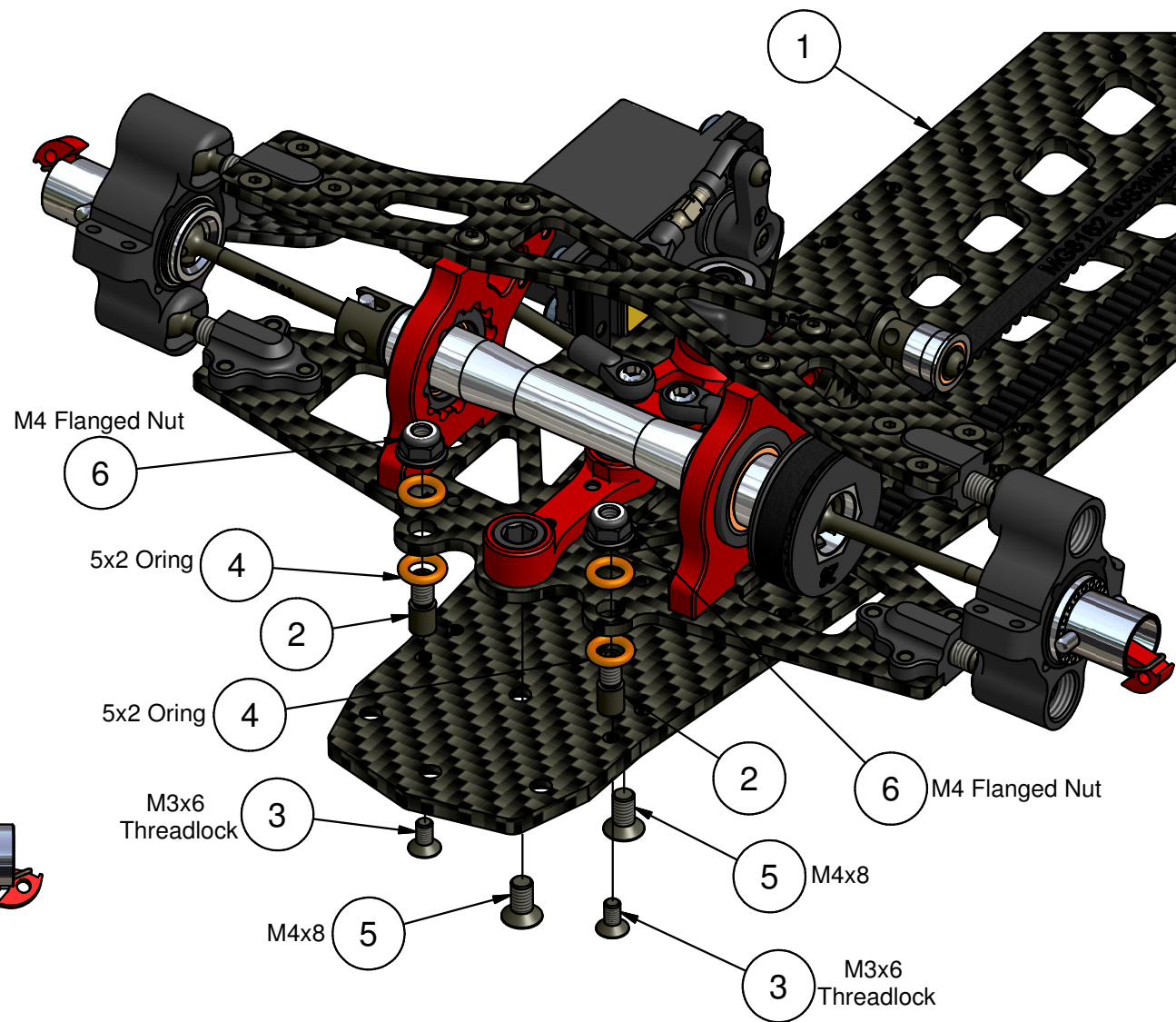
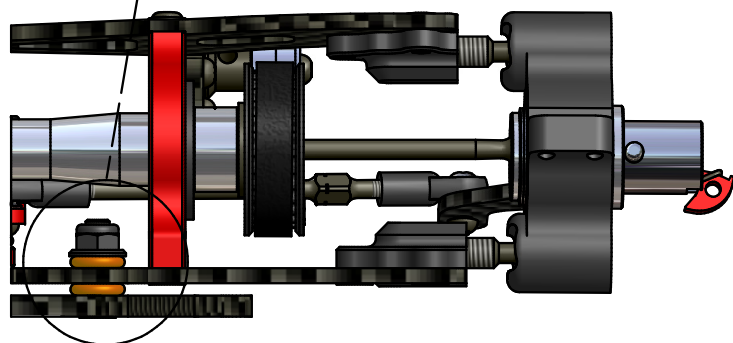
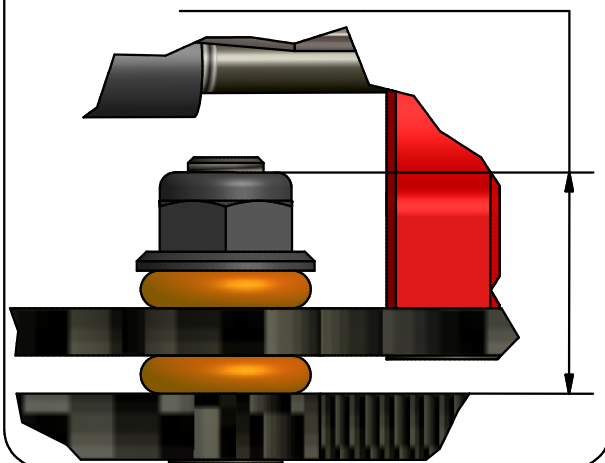
Step 2.1

- Front Assembly - BAG 2

Capricorn RC

Front End Rigidity Adjustment

HARD $\triangle$ 12,0 mm $\triangle$ SOFT
Default Setting



L/R

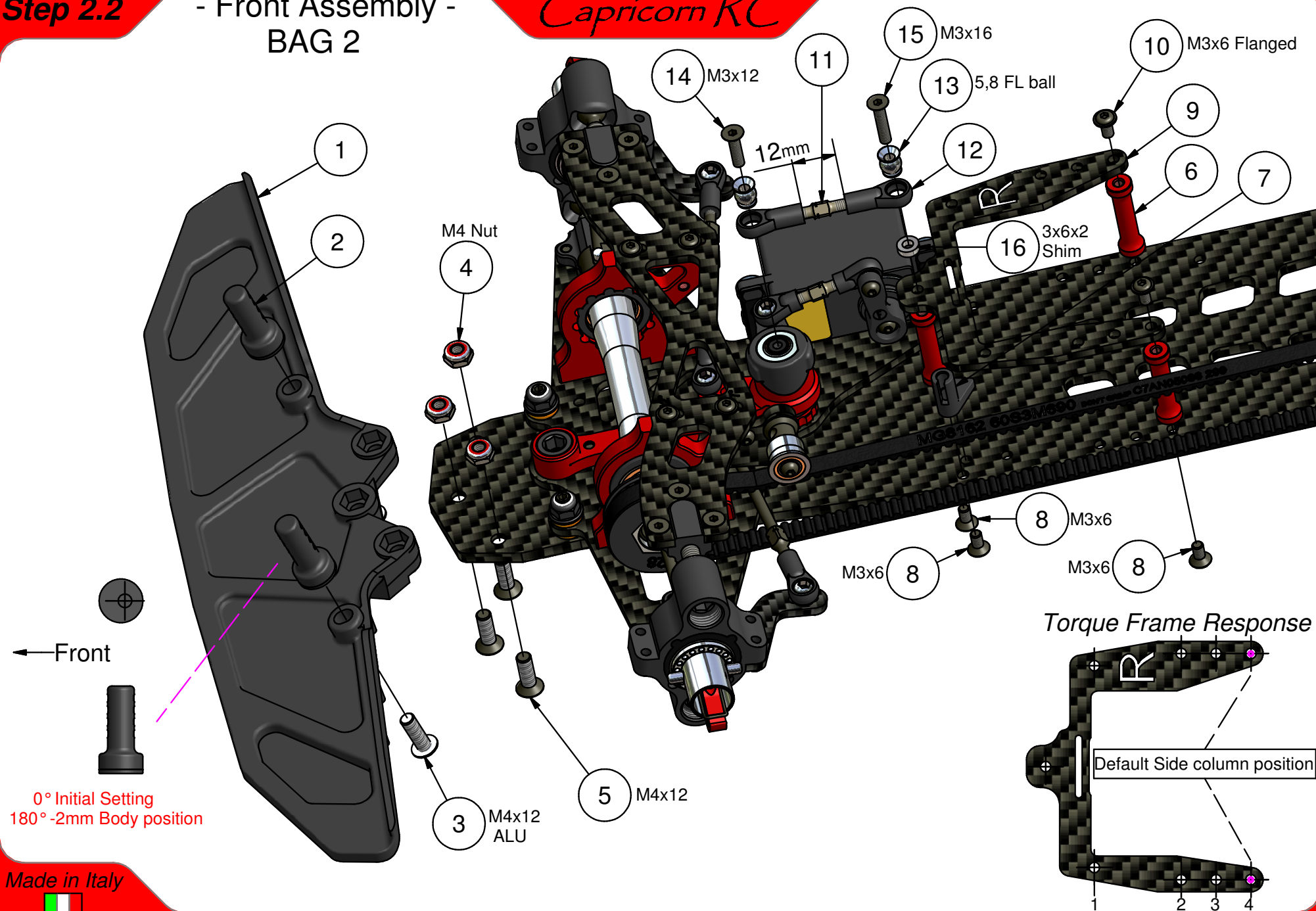
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Step 2.2

- Front Assembly - BAG 2

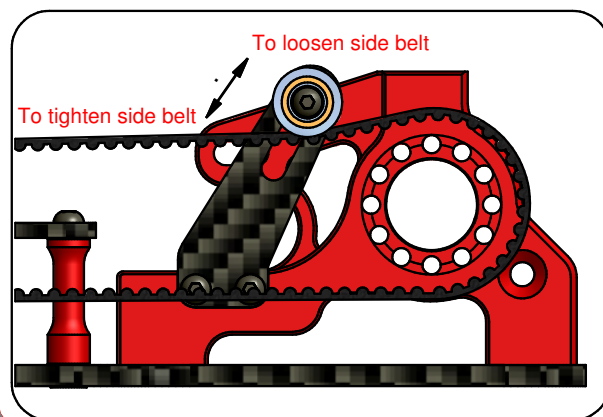
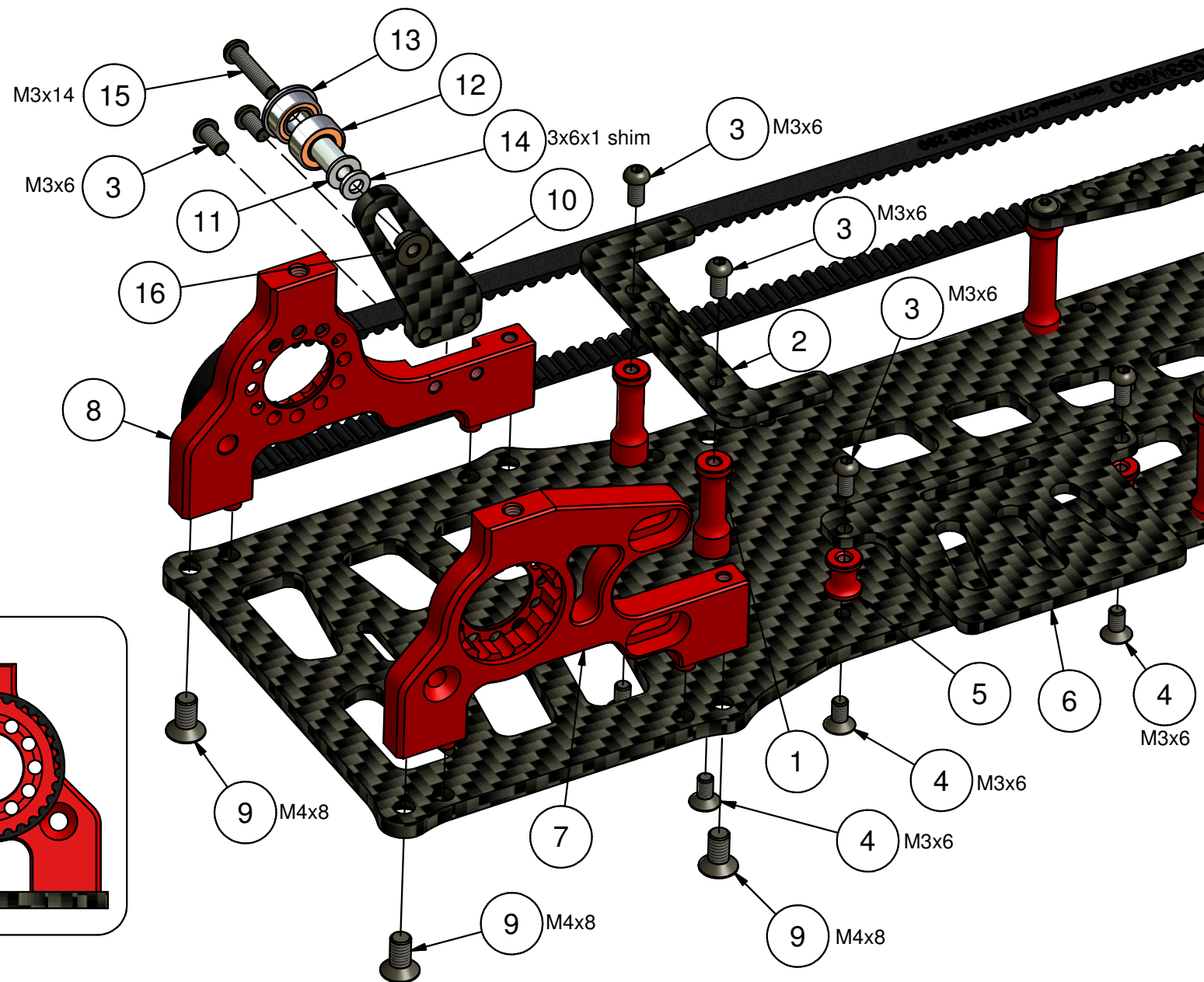
Capricorn RC



Step 3.0

- Rear Assembly - BAG 3

Capricorn RC



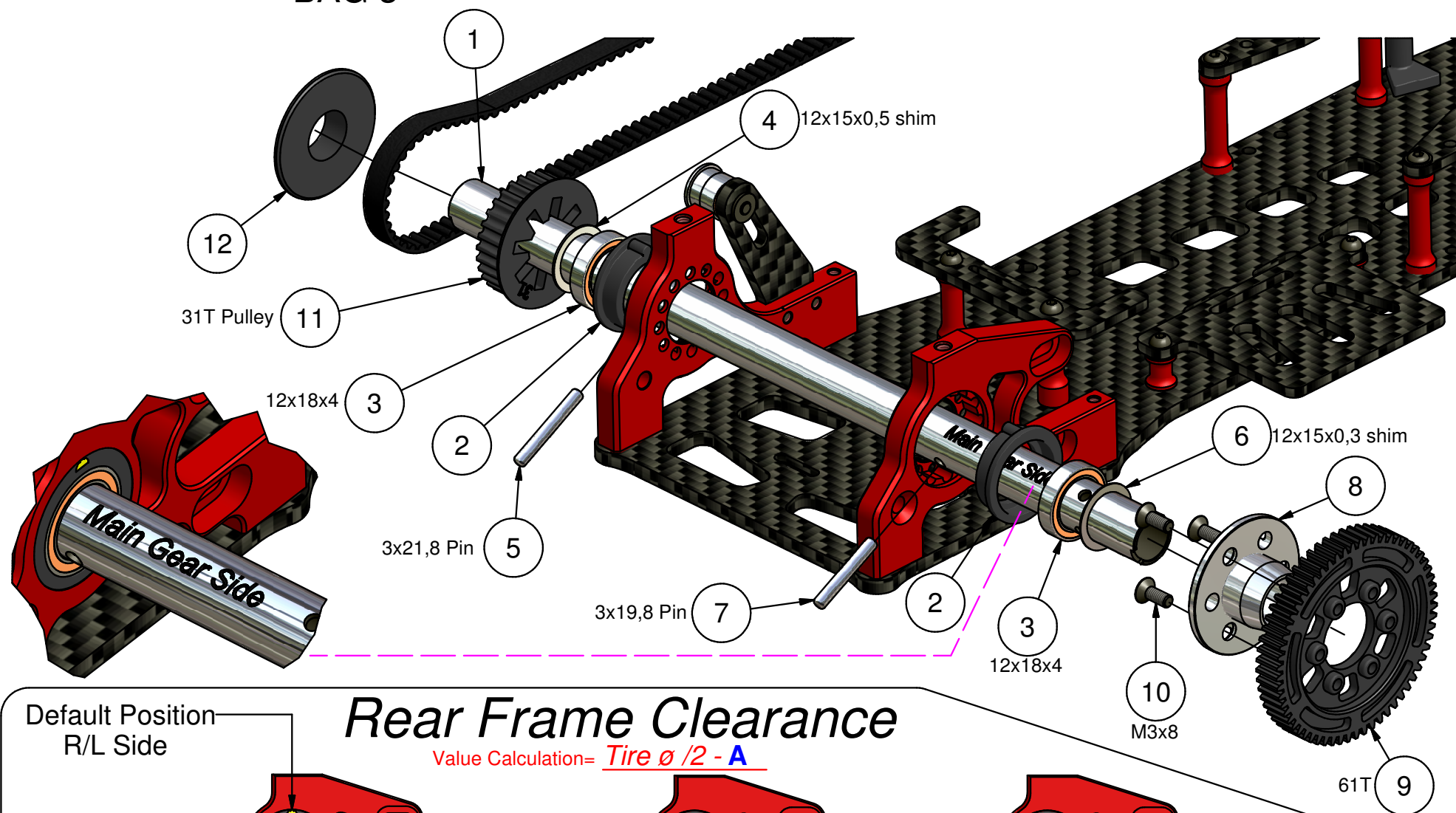
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Step 3.1

- Rear Assembly - BAG 3

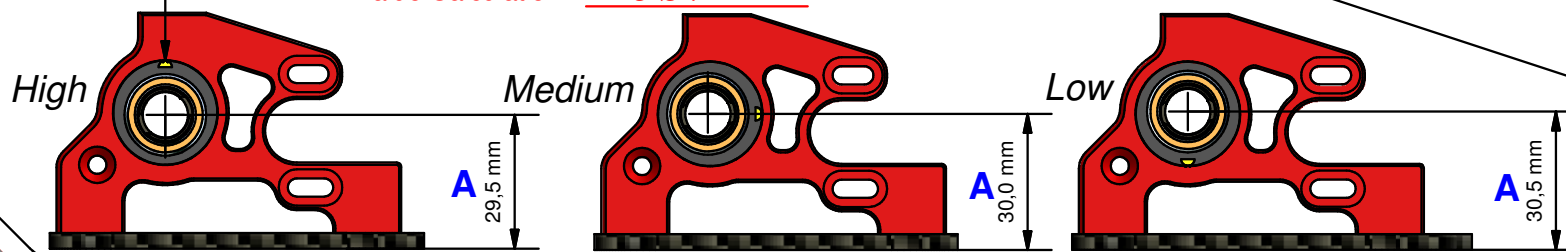
Capricorn RC



Default Position
R/L Side

Rear Frame Clearance

Value Calculation = $\text{Tire } \phi / 2 - A$



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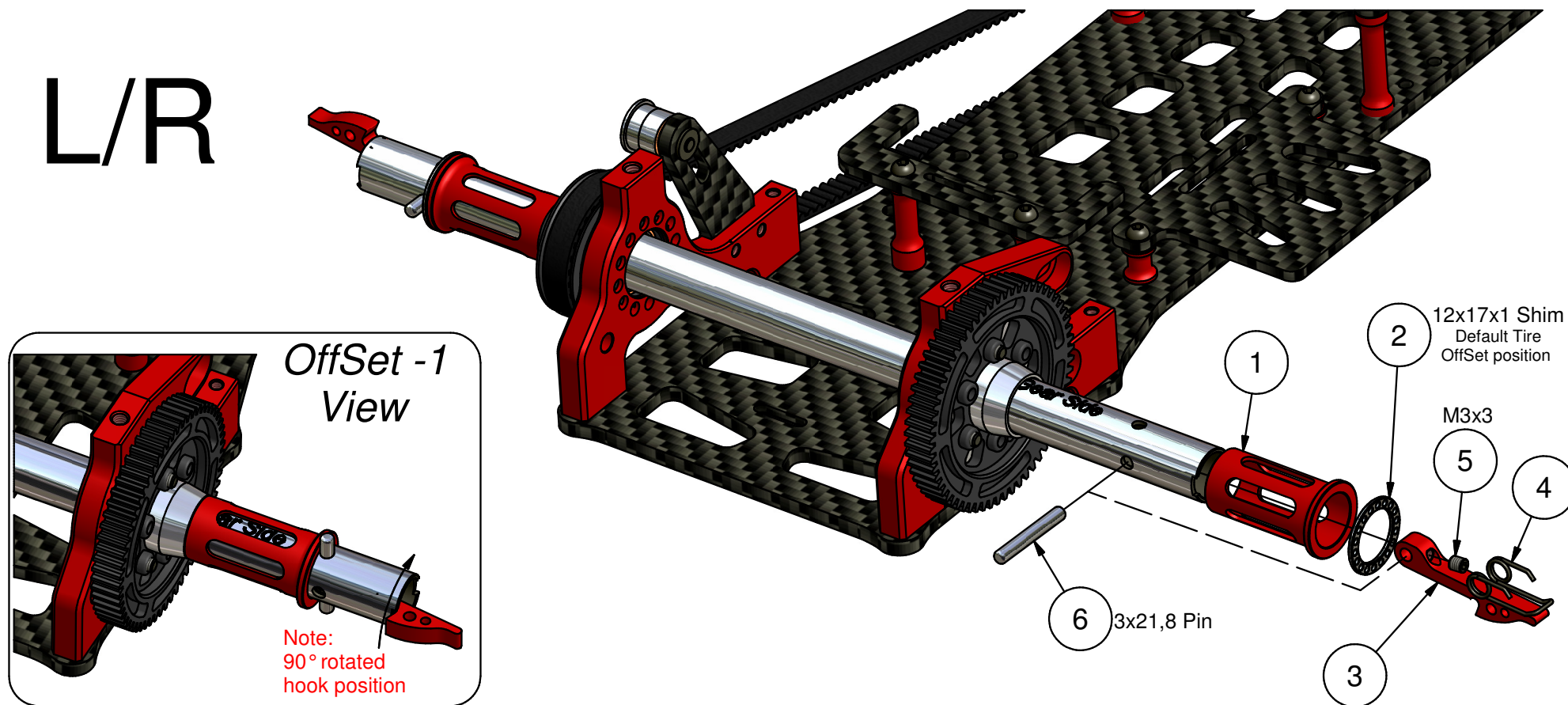


Step 3.2

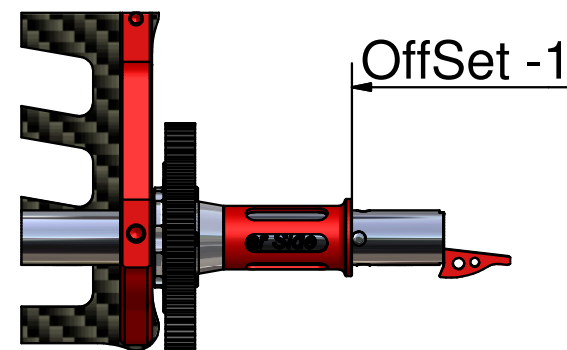
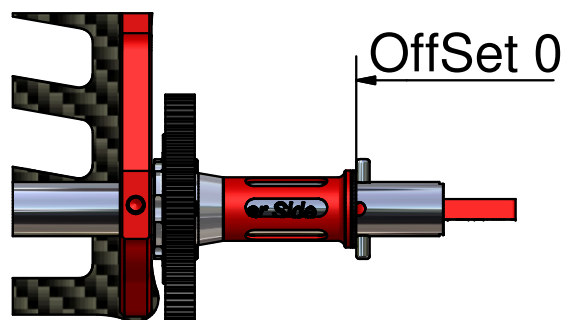
- Rear Assembly -
BAG 3

Capricorn RC

L/R



Rear Track



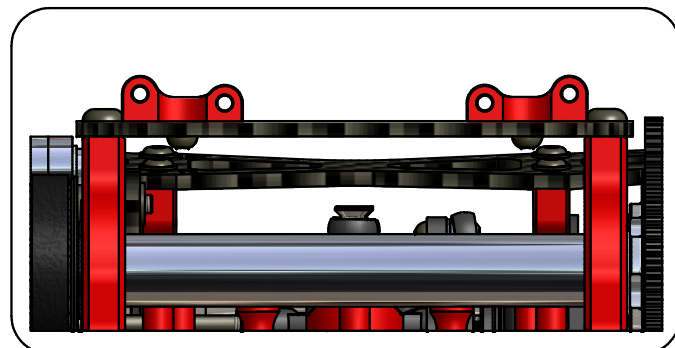
Made in Italy



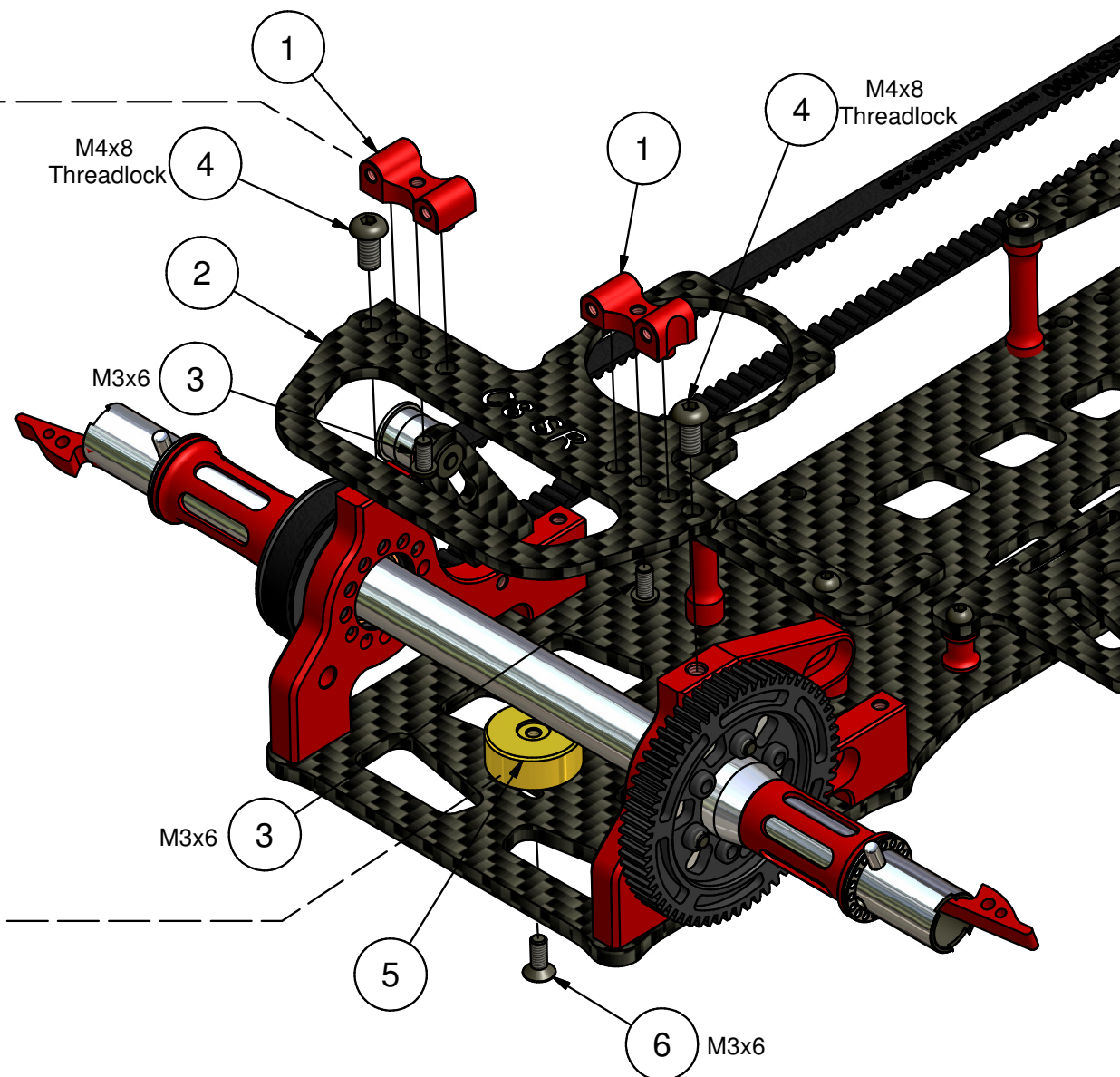
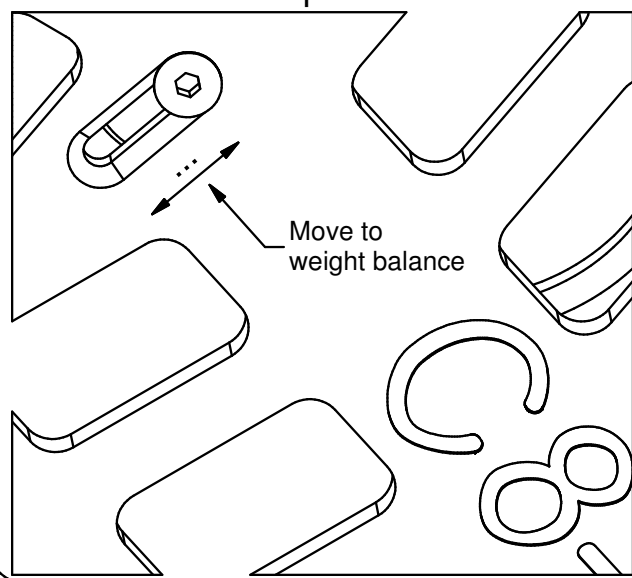
Step 4.0

- Rear Assembly - BAG 4

Capricorn RC



OPTION 15gr Brass Weight
code Cap 2300



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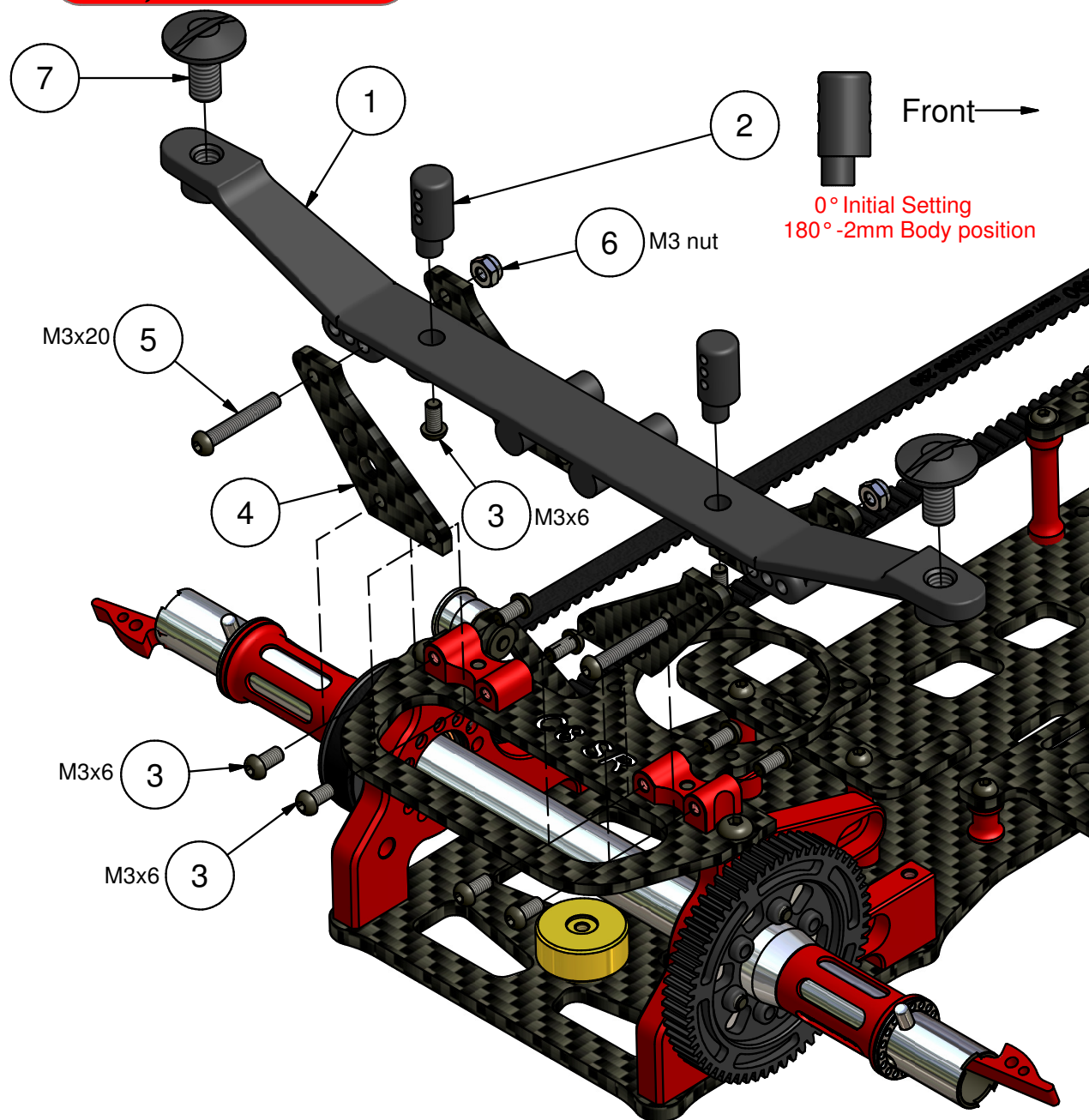
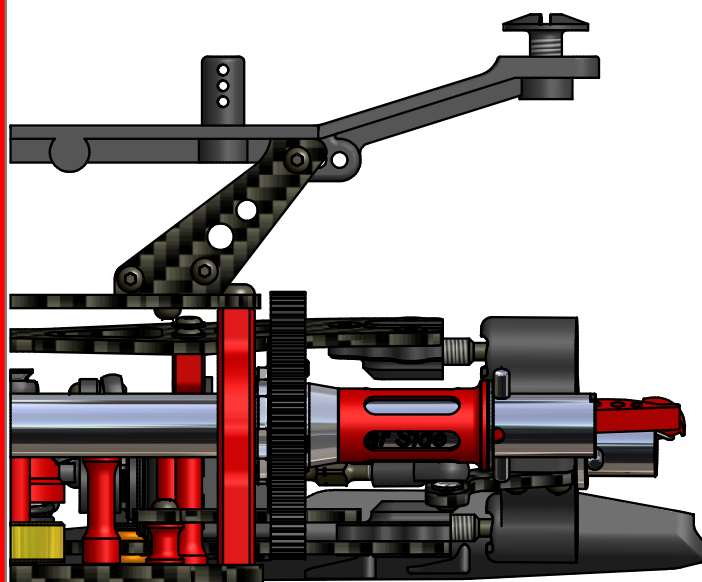


Step 4.1

- Rear Assembly - BAG 4

Capricorn RC

L/R



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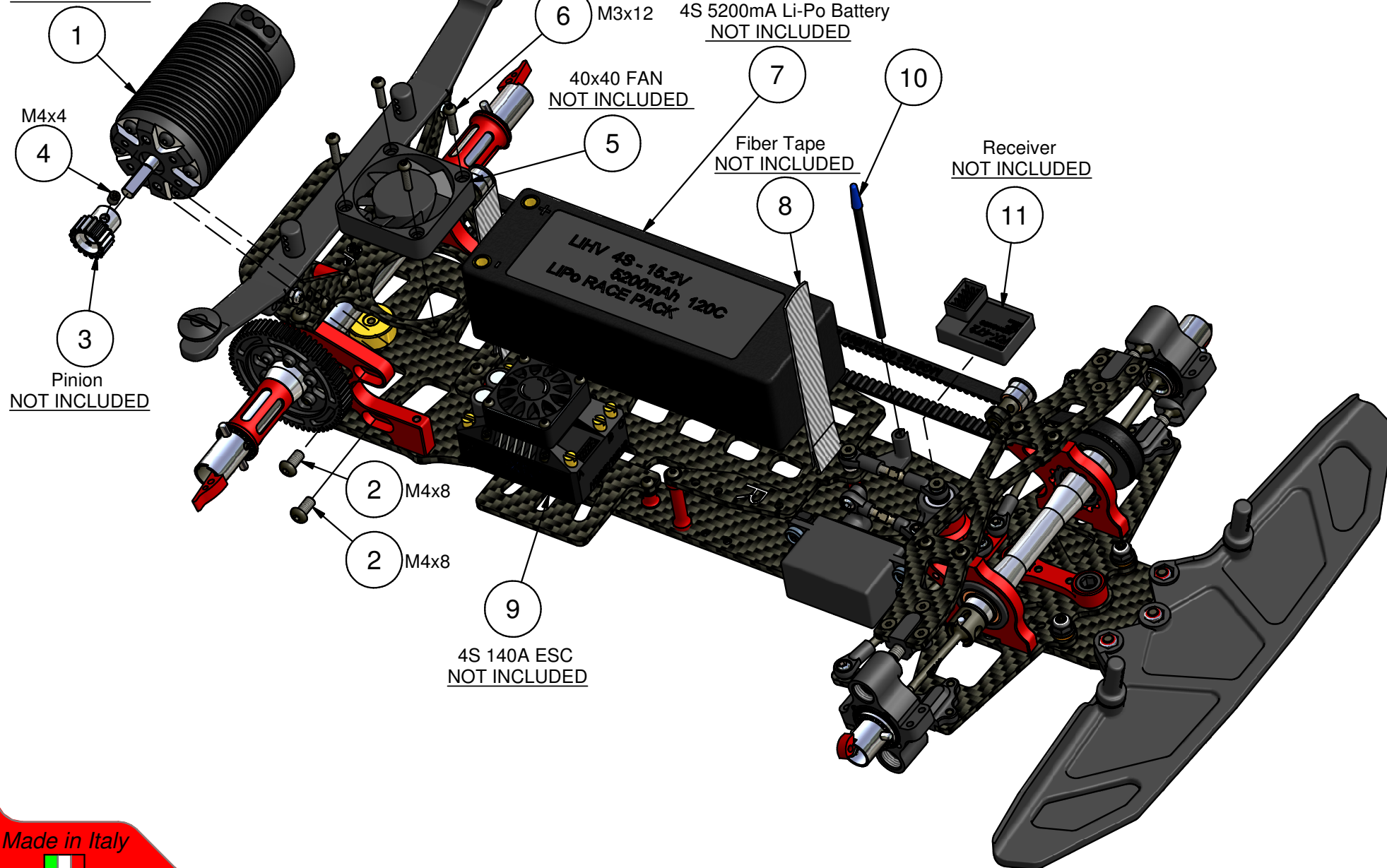


Step 4.2

- Electronics Assembly - BAG 4

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1900kv Motor
NOT INCLUDED



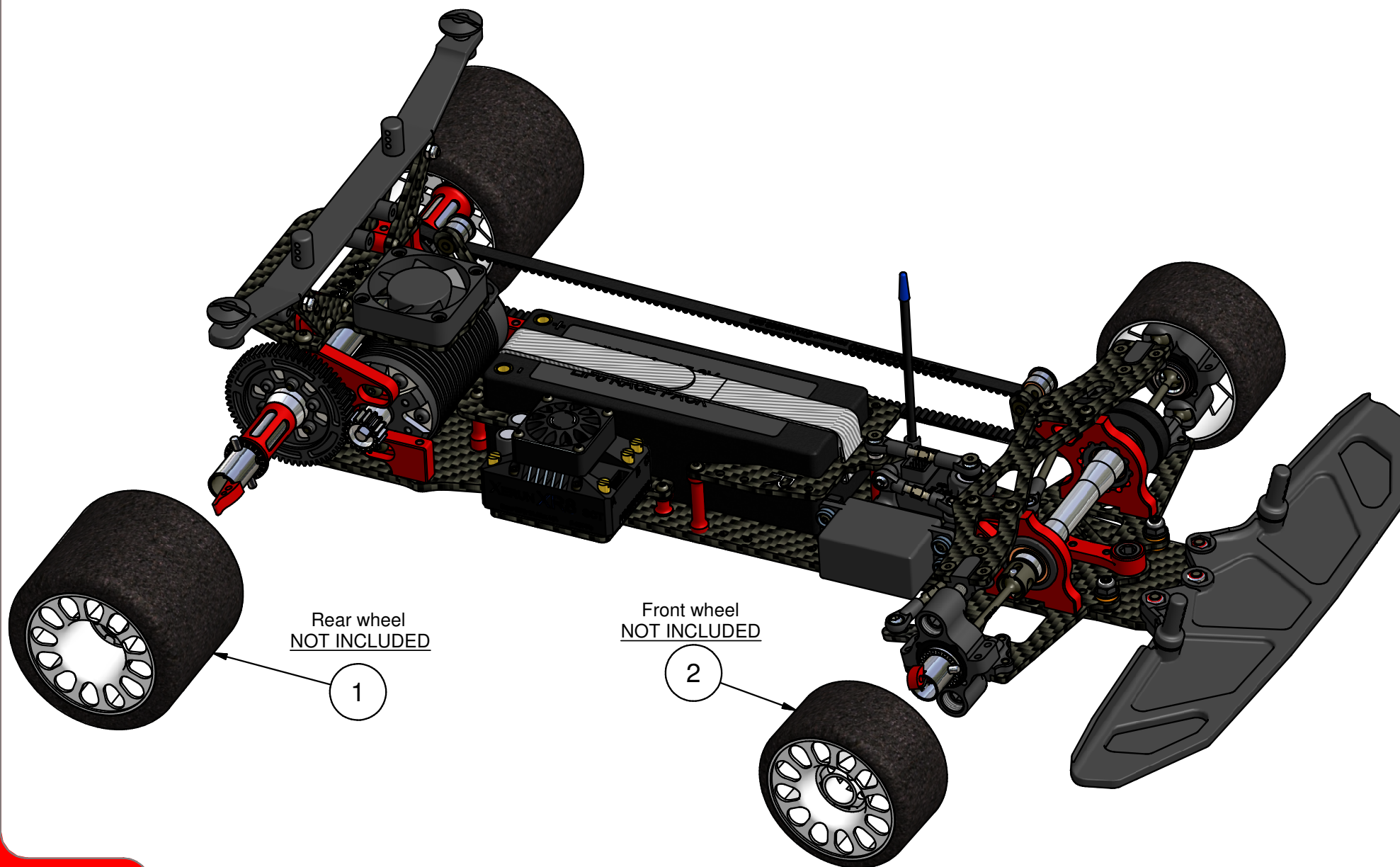
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Step 4.3

- Final Assembly -

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- 2x 2S Shorty Li-Po Battery -
OPTION

2x 2S Shorty 6000mA Li-Po Battery
NOT INCLUDED

4S 140A ESC
NOT INCLUDED

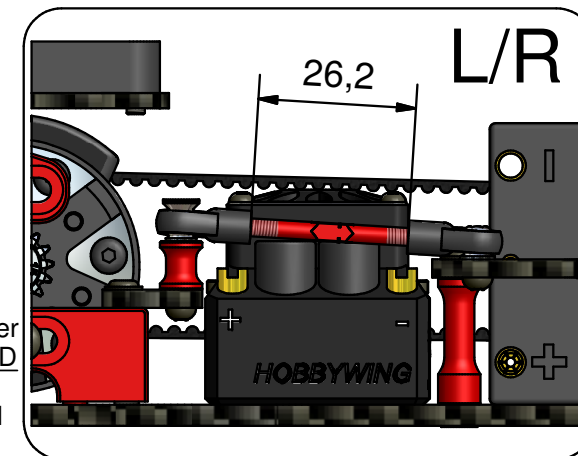
To ESC

To ESC

Male to Male
connector adapter
NOT INCLUDED

M3x6 Flanged

M3x16



M3x6 Flanged

M3x10

5,8 Flanged ball

M3x6

5,8 ball

M3x6

Default link position

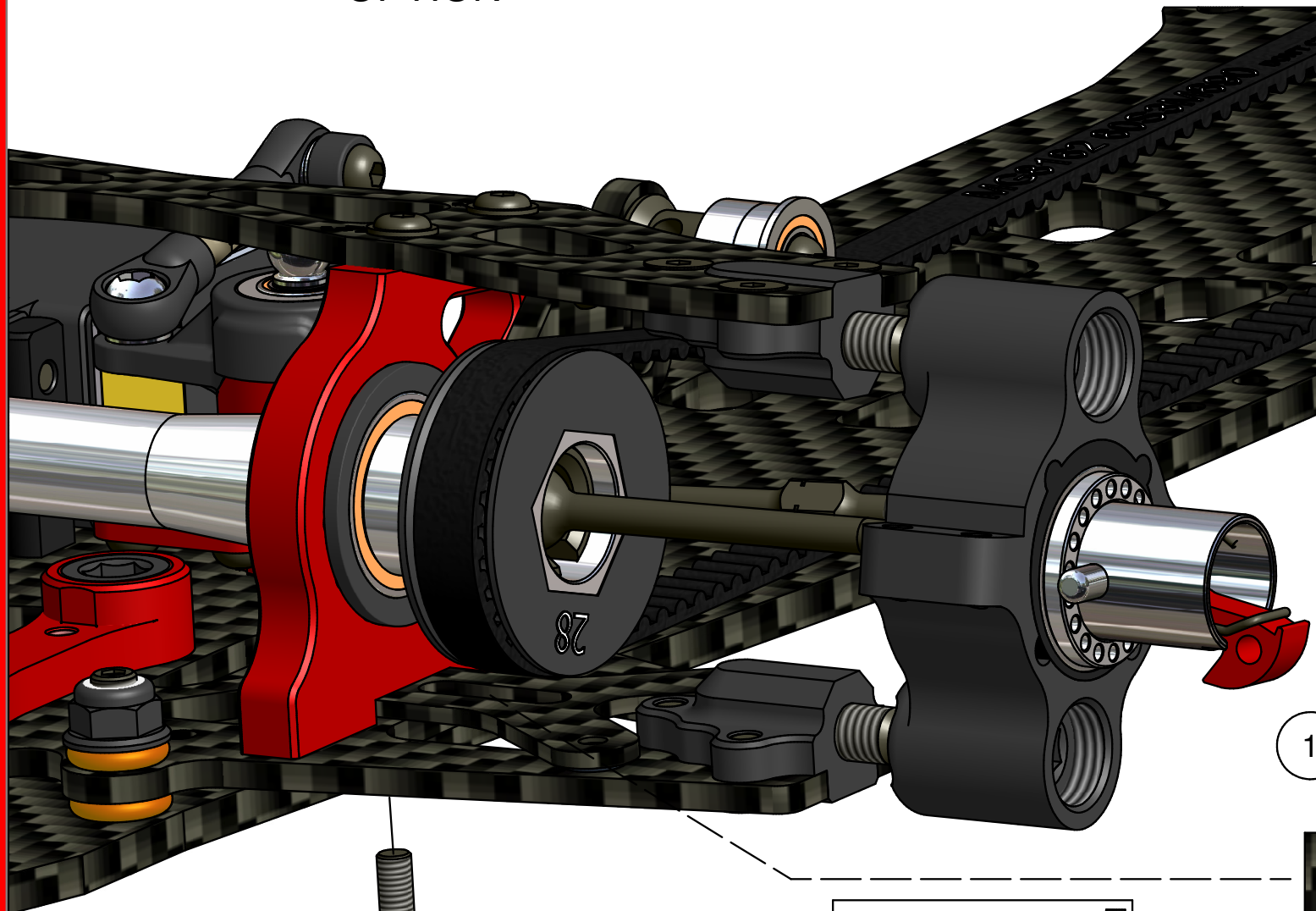
Made in Italy



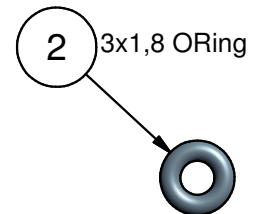
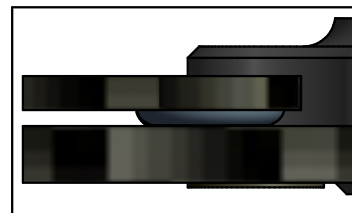
- Front Stiffness link -
OPTION

Capricorn RC

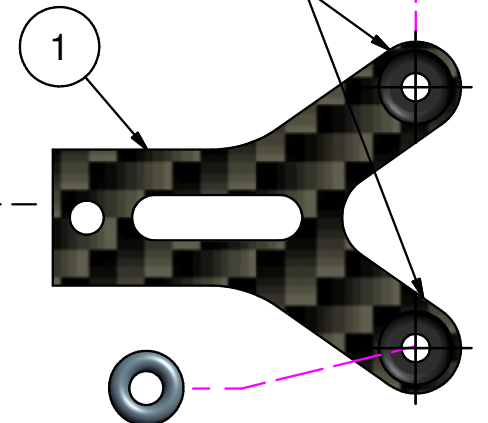
L/R



3 M3x6



CA Glue



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- Option Parts -

Capricorn RC

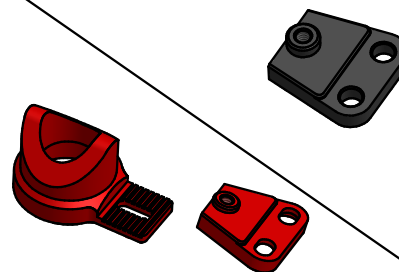


cod. Cap 2546

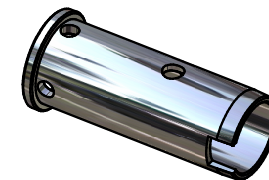


cod. Cap18027

cod. Cap 2280-K
Ack 8,5



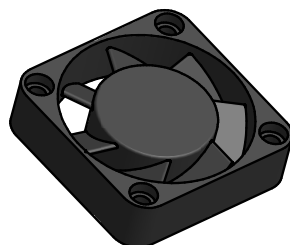
cod. Cap 2181-K



cod. Cap 2248



cod. Cap 2300



40x40 FAN
cod. One90134



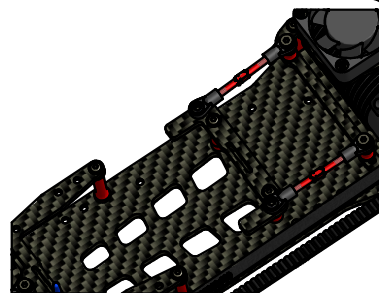
60T
cod. Cap 2050B-60



62T
cod. Cap 2050B-62



cod. Cap 2541 15T
cod. Cap 2542 16T
cod. Cap 2543 17T
cod. Cap 2544 18T



2S Shorty Li-Po Conversion
cod. Cap 2502-K

Aluminium screws



M3x6mm cod. Cap29268
M3x8mm cod. Cap29269
M3x10mm cod. Cap29270
M3x14mm cod. Cap29272



M3x5mm cod. One29276
M3x6mm cod. One29277
M3x8mm cod. One29278
M3x10mm cod. One29279



M4x8mm cod. Cap 2350
M4x10mm cod. Cap 2351
M4x12mm cod. Cap 2352
M4x14mm cod. Cap 2353

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C8 SR DEFAULT SET-UP SHEET

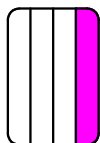
Capricorn RC

RACE		DATE	
TRACK		QUALIFYING POSITION	
NAME		BEST LAP	/sec
CITY/ COUNTRY		RACE POSITION	
CONTACT		RACE LENGTH	/min

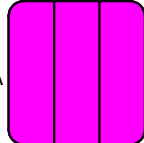
TRACK SURFACE	☐ CARPET	☒ ASPHALT
TRACK LAYOUT	☐ TECHNICAL	☒ MIXED
TRACTION	☐ LOW	☒ MEDIUM
		☐ FAST
		☐ HIGH

AXLE POSITION	ACK	CASTER	TURBO	TURBO DELAY
1 FRONT	11 mm	7° 12°	3 %	0,3 /sec
1 REAR				

FRONT	TIRES	REAR
	B BRAND	
35	SHORE	35
64	DIAMETER	71
252	TRACK WIDTH	263



ADDITIVE
TREATED AREA

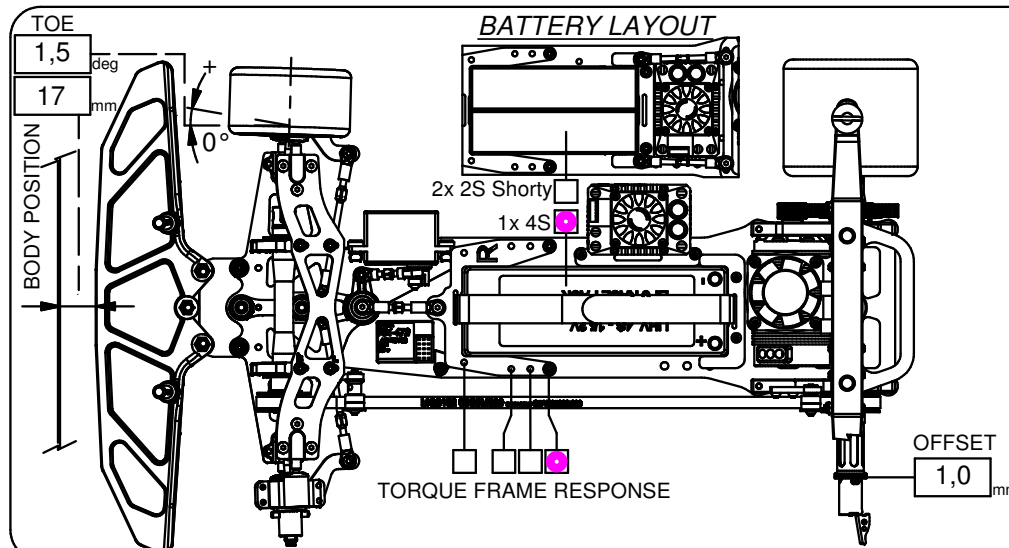
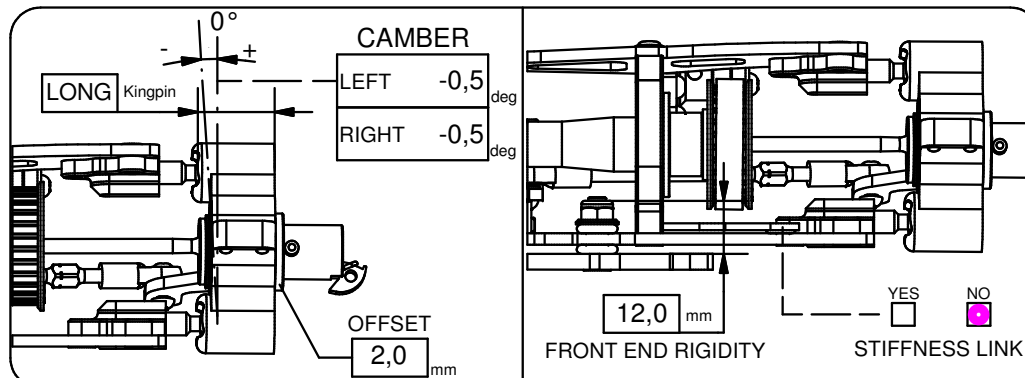
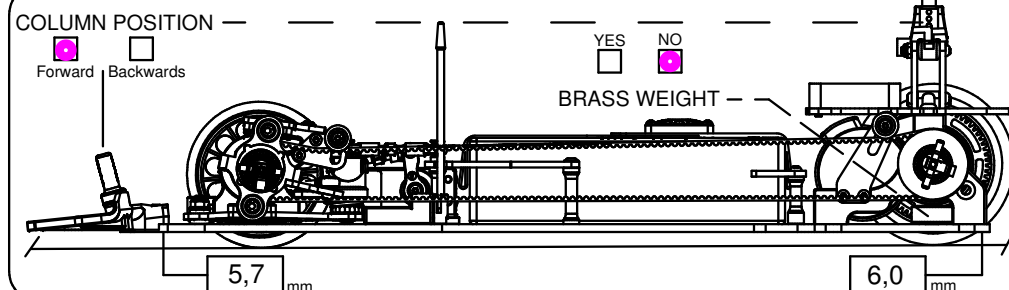


BOOST SETTING
0 ☒ LOW ☐ MEDIUM ☐ HIGH

GEARING
17 /T PINION 61 /T SPUR GEAR 3,588 DRIVE RATIO

MOTOR	1900 Kv
ESC	4S 140 A
BATTERY	Li-Po 14,8V 4S
BODY	

- NOTES -



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C8 SR BLANK SET-UP SHEET

Capricorn RC

RACE		DATE	
TRACK		QUALIFYING POSITION	
NAME		BEST LAP	/sec
CITY/ COUNTRY		RACE POSITION	
CONTACT		RACE LENGTH	/min

TRACK SURFACE	☐ CARPET	☐ ASPHALT
TRACK LAYOUT	☐ TECHNICAL	☐ MIXED
TRACTION	☐ LOW	☐ MEDIUM
	☐ FAST	☐ HIGH

AXLE POSITION	ACK	CASTER	TURBO	TURBO DELAY
☐ FRONT	☐ mm	☐ 7° ☐ 12°	☐ %	☐ /sec
☐ REAR				

FRONT	TIRES	REAR
☐	B BRAND	☐
☐	SHORE	☐
☐	DIAMETER	☐
☐	TRACK WIDTH	☐

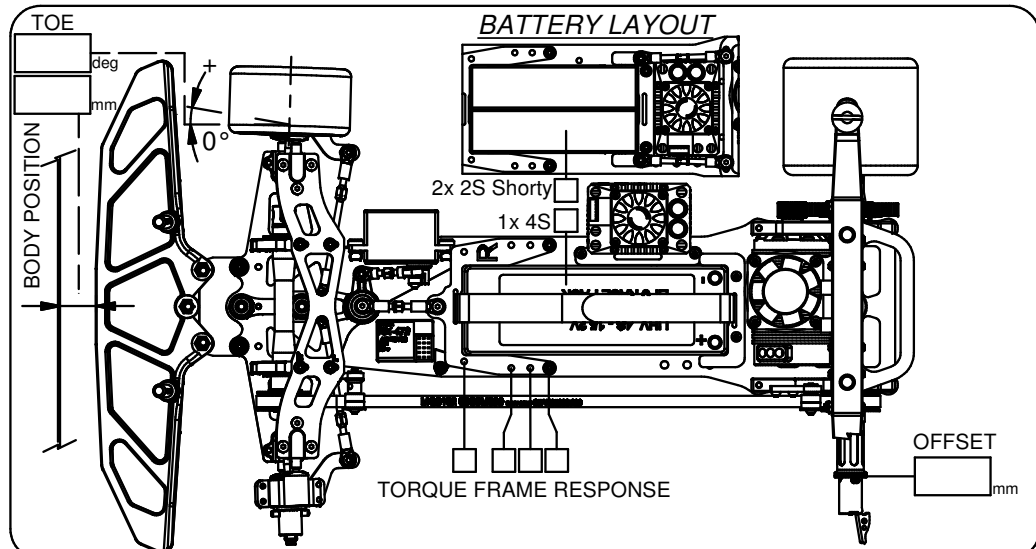
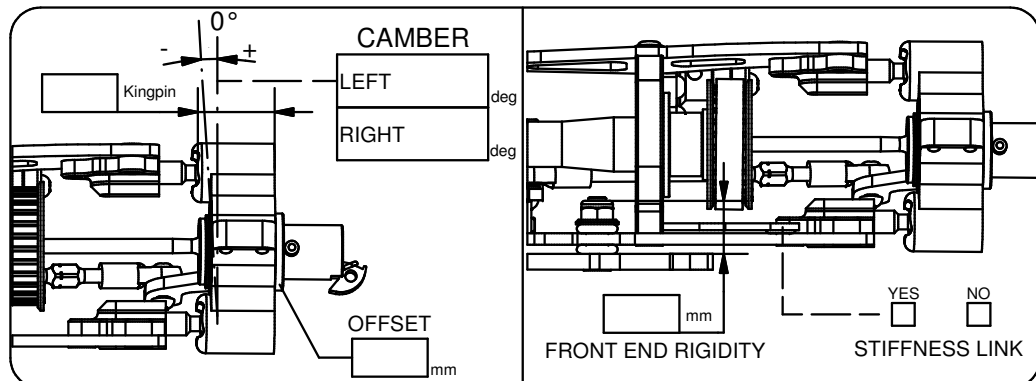
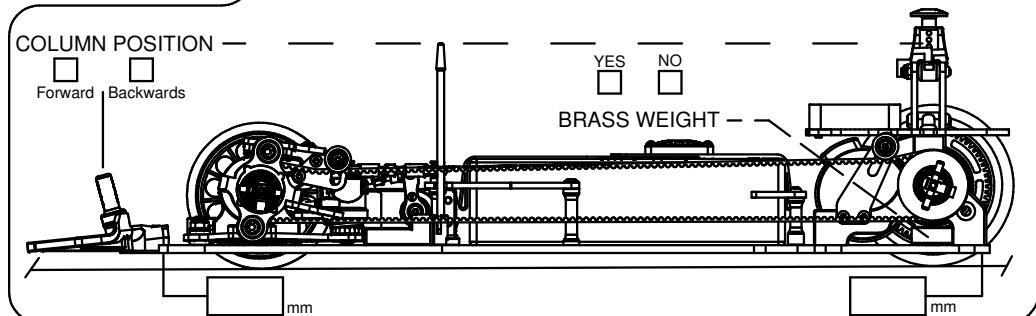
ADDITIVE
TREATED AREA

BOOST SETTING
0 ☐ ☐ ☐ ☐ ☐ ☐ ☐
LOW MEDIUM HIGH

GEARING
☐ /T ☐ T ☐
PINION SPUR GEAR DRIVE RATIO

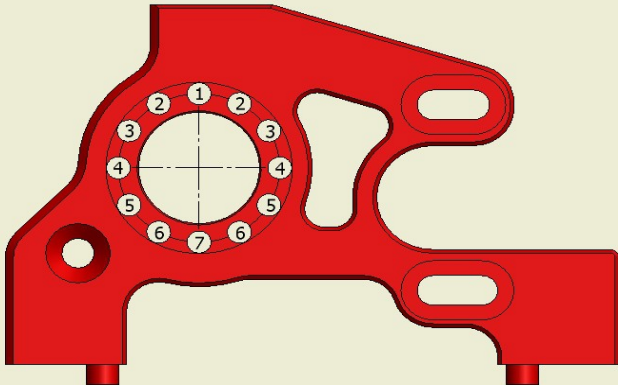
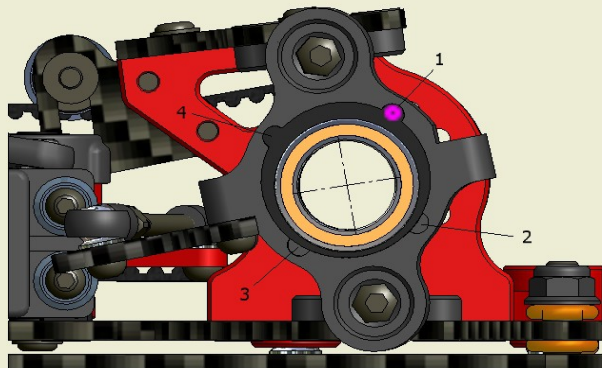
MOTOR	
ESC	
BATTERY	
BODY	

- NOTES -



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Frame Clearance mm																
Tire ø	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
Rear Axle Position																
High 1	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00	
2	0,90	1,40	1,90	2,40	2,90	3,40	3,90	4,40	4,90	5,40	5,90	6,40	6,90	7,40	7,90	
3	0,75	1,25	1,75	2,25	2,75	3,25	3,75	4,25	4,75	5,25	5,75	6,25	6,75	7,25	7,75	
Medium 4	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	
5	0,25	0,75	1,25	1,75	2,25	2,75	3,25	3,75	4,25	4,75	5,25	5,75	6,25	6,75	7,25	
6	0,10	0,60	1,10	1,60	2,10	2,60	3,10	3,60	4,10	4,60	5,10	5,60	6,10	6,60	7,10	
Low 7	0,00	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	
Front Axle Position																
High 1	4,20	4,70	5,20	5,70	6,20	6,70	7,20	7,70								
2	3,60	4,10	4,60	5,10	5,60	6,10	6,60	7,10								
4	3,30	3,80	4,30	4,80	5,30	5,80	6,30	6,80								
Low 3	2,70	3,20	3,70	4,20	4,70	5,20	5,70	6,20								
REAR					FRONT											
																

RATIO	Spur										
Pinion	60	61	62								
16	3,750	3,813	3,875		Brushless Motor:		1900kv				
17	3,529	3,588	3,647		Battery:		4S (2 x Li-Po 2S Shorty 6000mA)				
18	3,333	3,389	3,444								
Rollout mm/RPM											
Tire ø	65	66	67	68	69	70	71	72	73	74	75
Pinion	Spur					60					
16	54,454	55,292	56,130	56,968	57,805	58,643	59,481	60,319	61,156	61,994	62,832
17	57,858	58,748	59,638	60,528	61,418	62,308	63,199	64,089	64,979	65,869	66,759
18	61,261	62,204	63,146	64,089	65,031	65,974	66,916	67,859	68,801	69,744	70,686
	Spur					61					
16	53,562	54,386	55,210	56,034	56,858	57,682	58,506	59,330	60,154	60,978	61,802
17	56,909	57,785	58,660	59,536	60,411	61,287	62,162	63,038	63,914	64,789	65,665
18	60,257	61,184	62,111	63,038	63,965	64,892	65,819	66,746	67,673	68,600	69,527
	Spur					62					
16	52,698	53,509	54,319	55,130	55,941	56,751	57,562	58,373	59,184	59,994	60,805
17	55,991	56,853	57,714	58,576	59,437	60,298	61,160	62,021	62,883	63,744	64,605
18	59,285	60,197	61,109	62,021	62,933	63,845	64,757	65,670	66,582	67,494	68,406

- Notes -

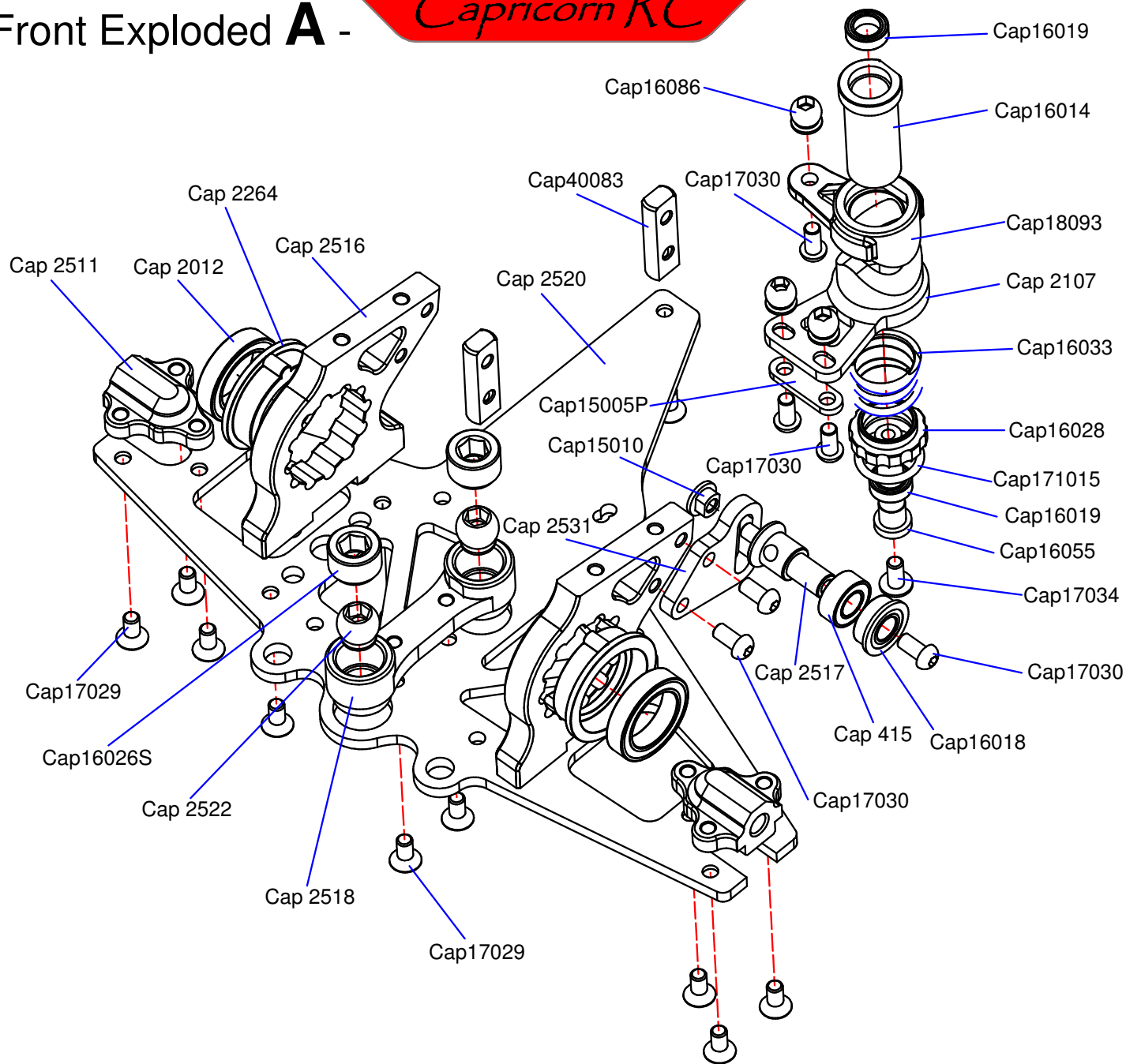
Capricorn RC

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- Front Exploded **A** -

Capricorn RC

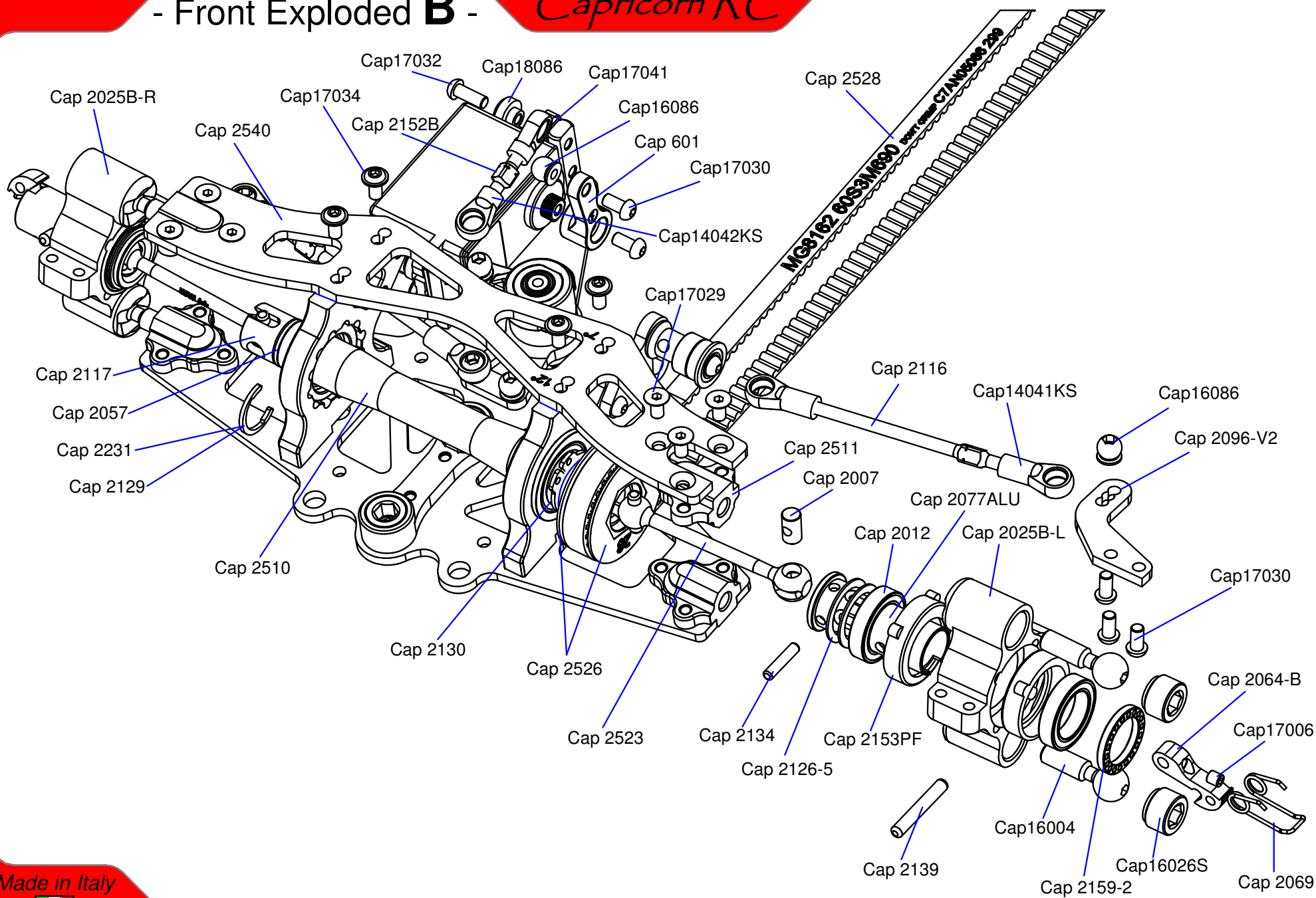


Made in Italy



- Front Exploded B -

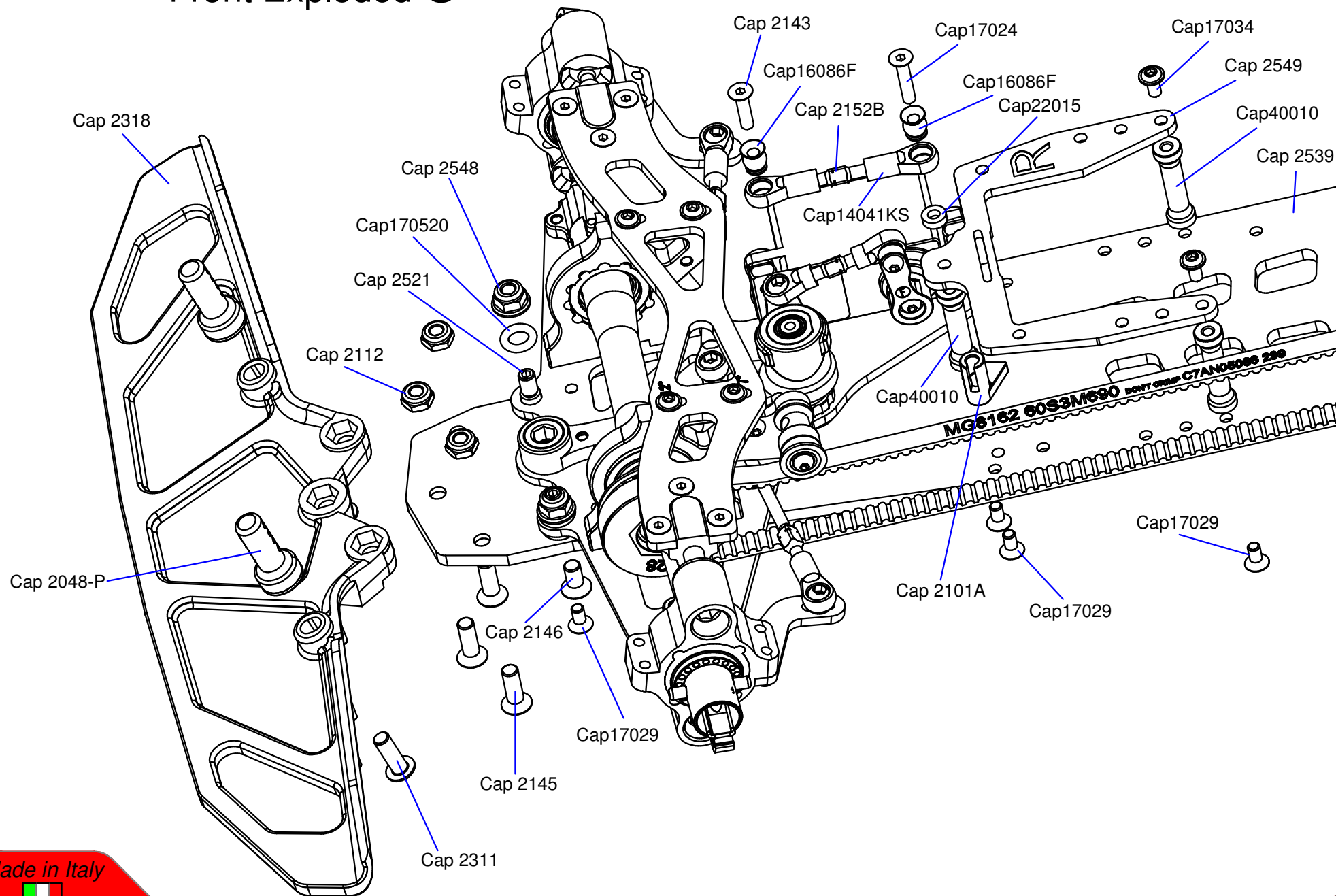
Capricorn RC



Made in Italy

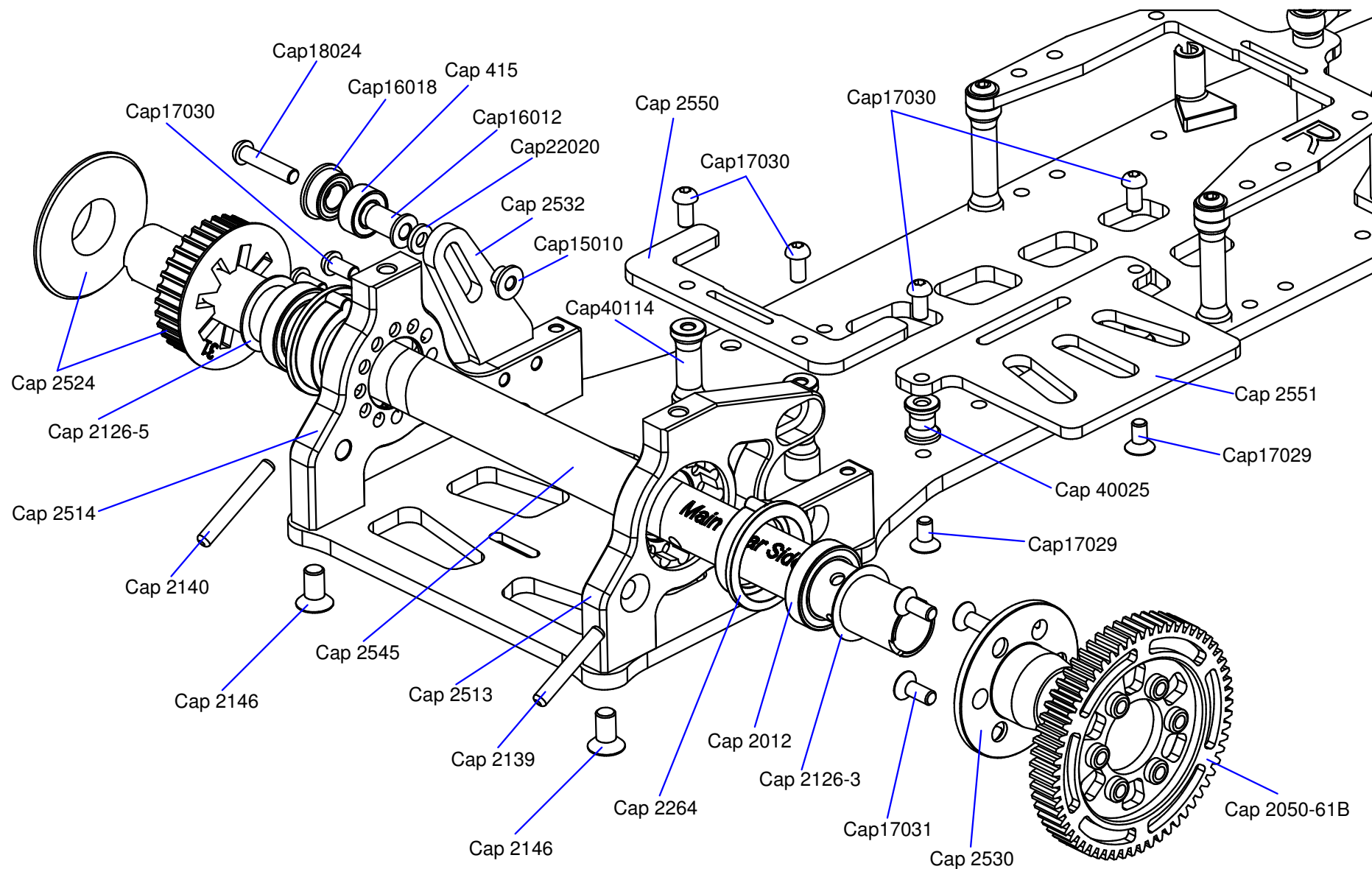


- Front Exploded C - *Capricorn RC*



- Rear Exploded **D** -

Capricorn RC

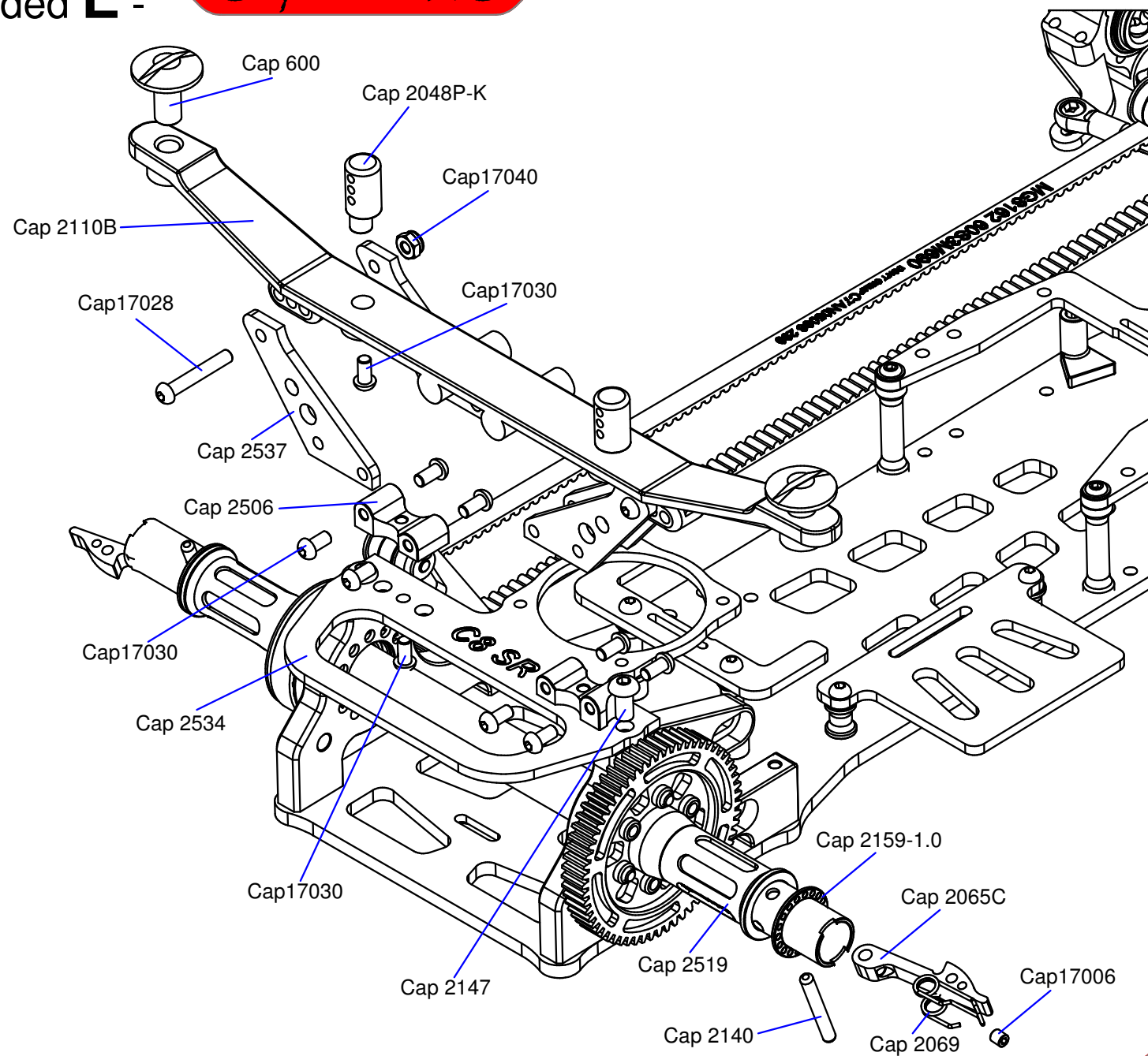


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- Rear Exploded **E** -

Capricorn RC



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- Exploded **F** - Electronic Equipment

Capricorn RC

BRUSHLESS MOTOR

1900KV HW30101901
2200KV HW30401903
2600KV HW30401902

FAN SCREWS

Cap17026

40X40 FAN

WTF-4010

4S LIPO BATTERY

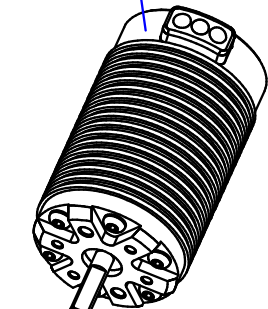
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IP5043128D8R9-4S2P

Cap14001

RECEIVER

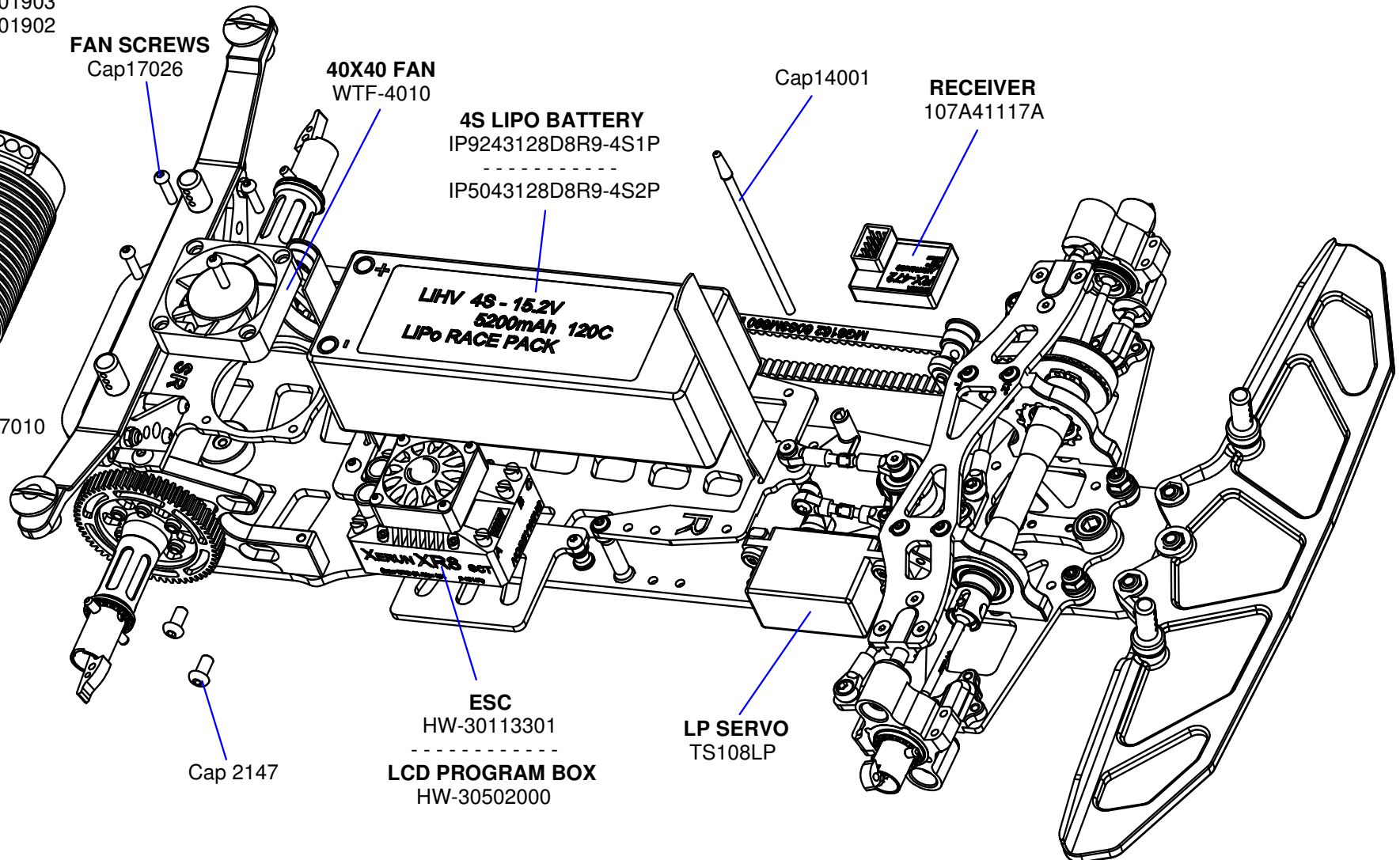
107A41117A



Cap17010

PINION

Cap 2542
Cap 2543
Cap 2544



Cap 2147

ESC

HW-30113301

LCD PROGRAM BOX

HW-30502000

LP SERVO

TS108LP

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