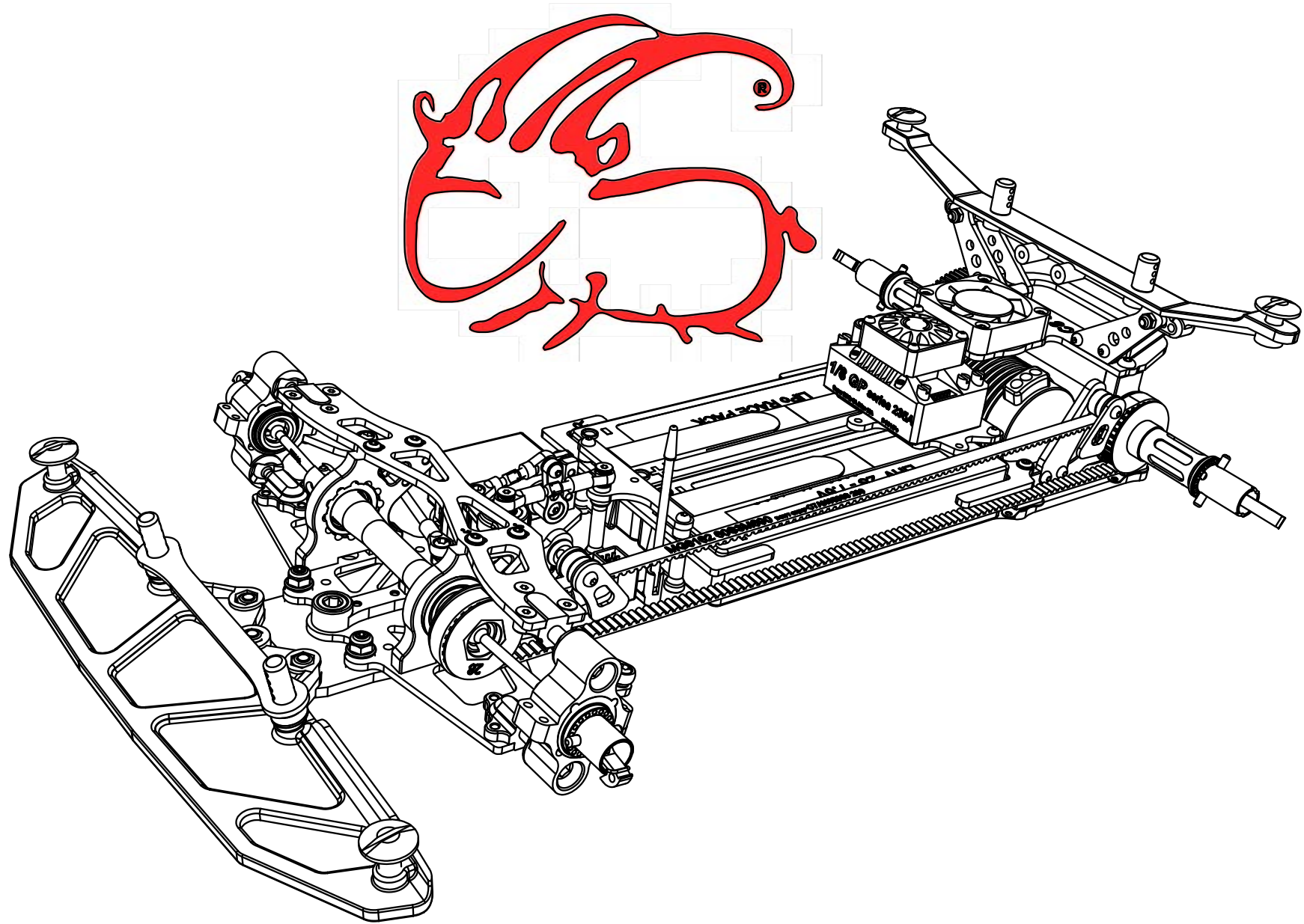




LabC8-SR ACTION Instruction Manual rel 1.2 (02/20)

- 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.

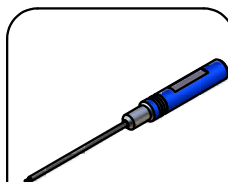
For customer support and service please contact your local hobby shop or agent from whom you purchased this item.

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.

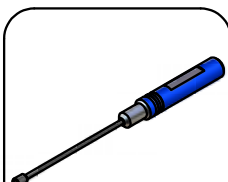
Made in Italy



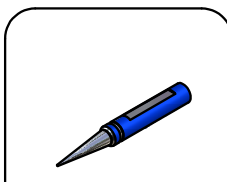
Tools needed for assembly (NOT INCLUDED)



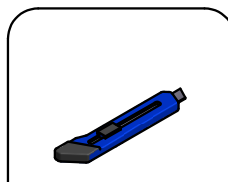
Hex Wrench
1,5/2/2,5/3/4mm



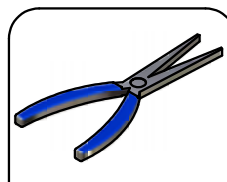
Box Wrench
5,5 / 7mm



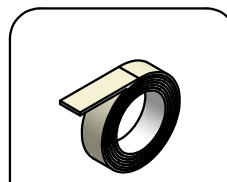
Reamer



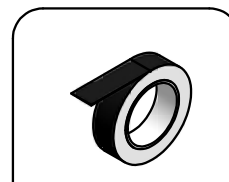
Cutter



Pliers

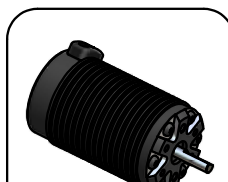


Double side
Tape

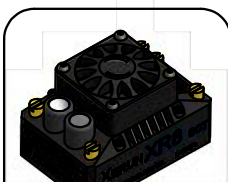


Fiber Glass
Tape

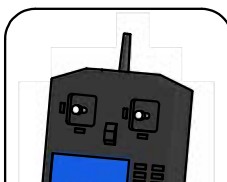
Parts for model completion and Start (NOT INCLUDED)



1900 KV Motor



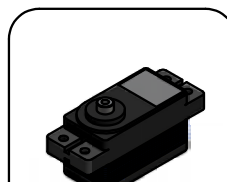
ESC



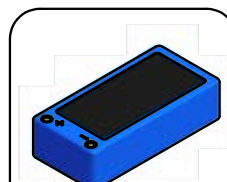
Transmitter



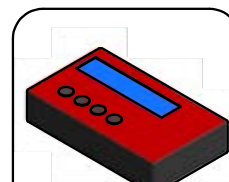
Receiver



Steering
Low Profile Servos



Li-Po Battery Pack



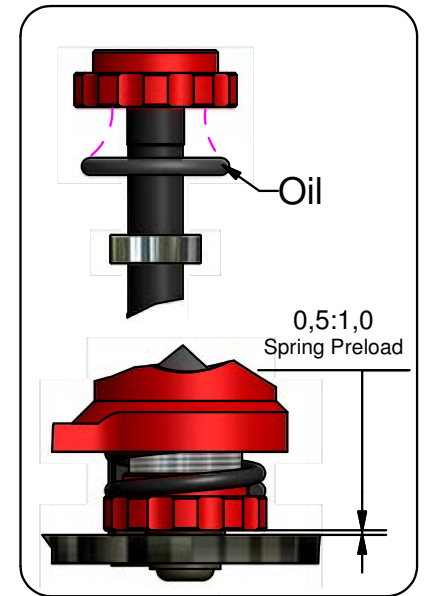
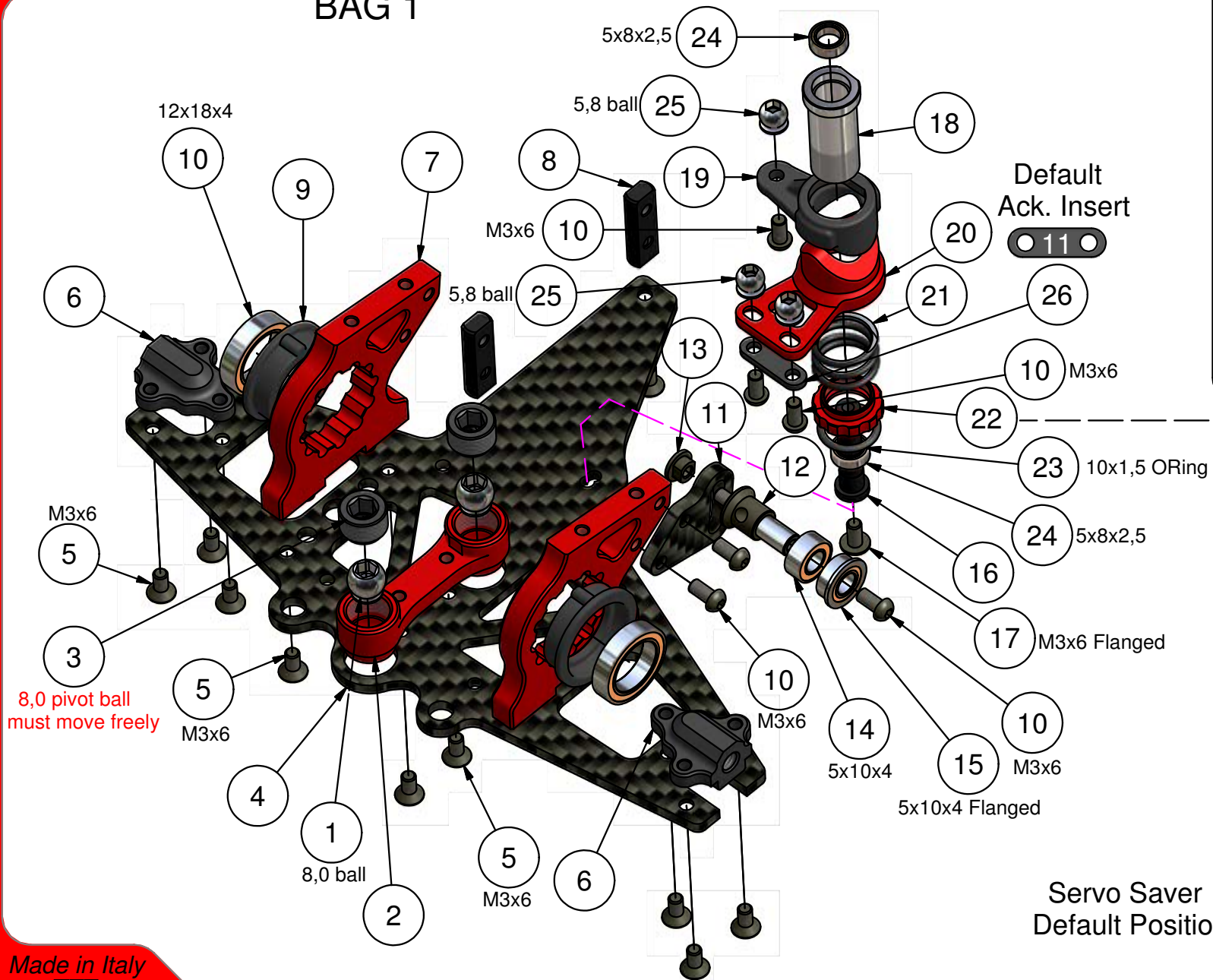
Battery Charger

Also required: Tires - Polycarbonat body

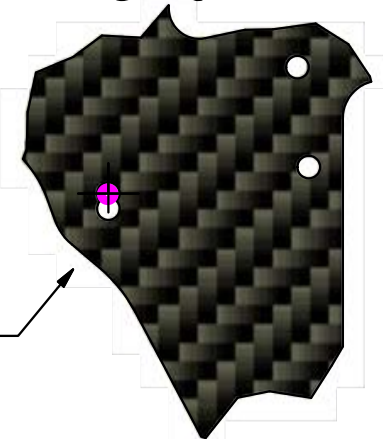
Step 1.0

- Front Assembly -
BAG 1

Capricorn RC



Front



Servo Saver - Default Position

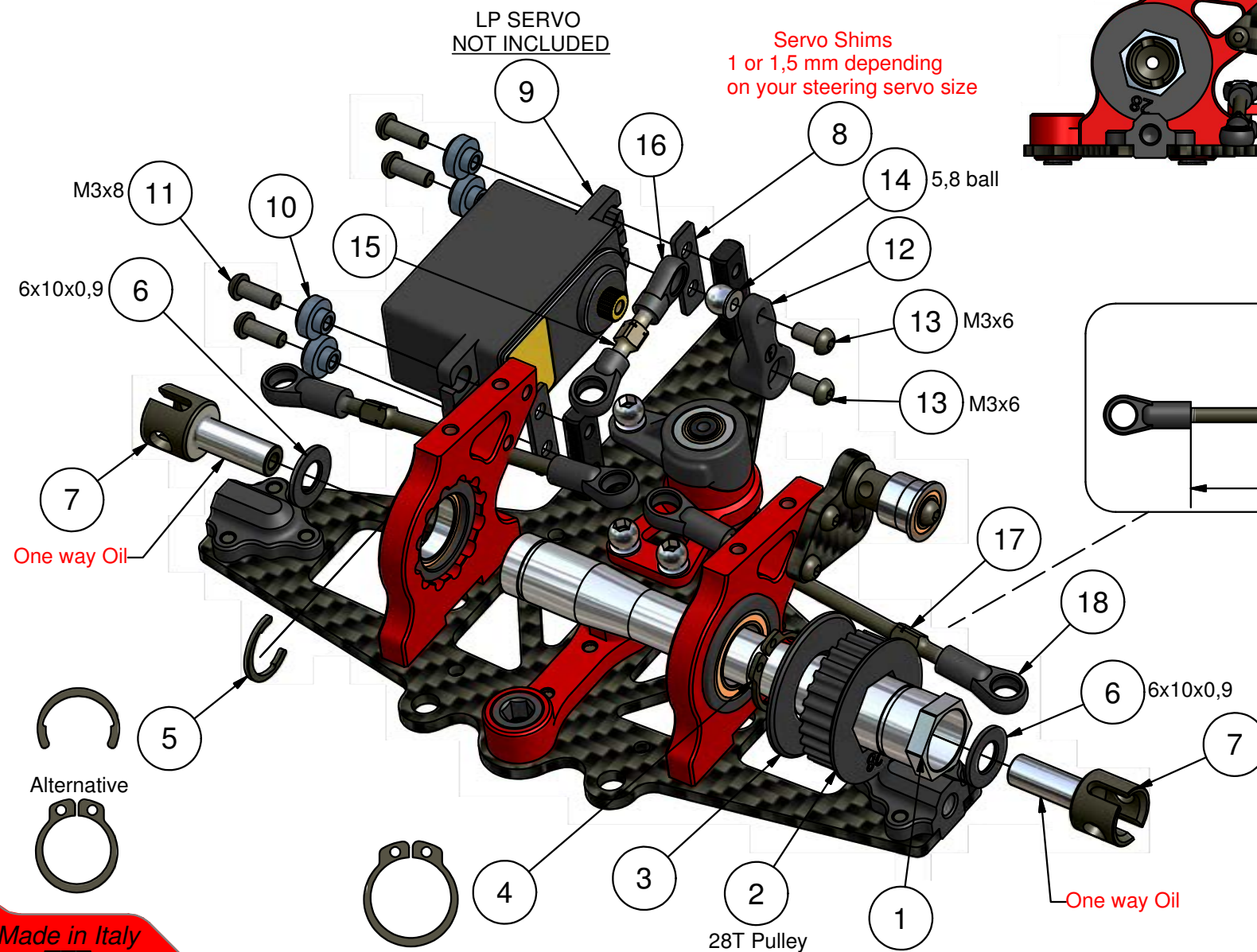
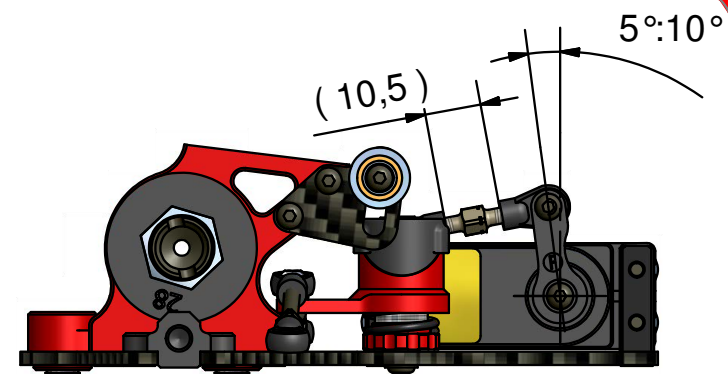
Made in Italy



Step 1.1

- Front Assembly - BAG 1

Capricorn RC



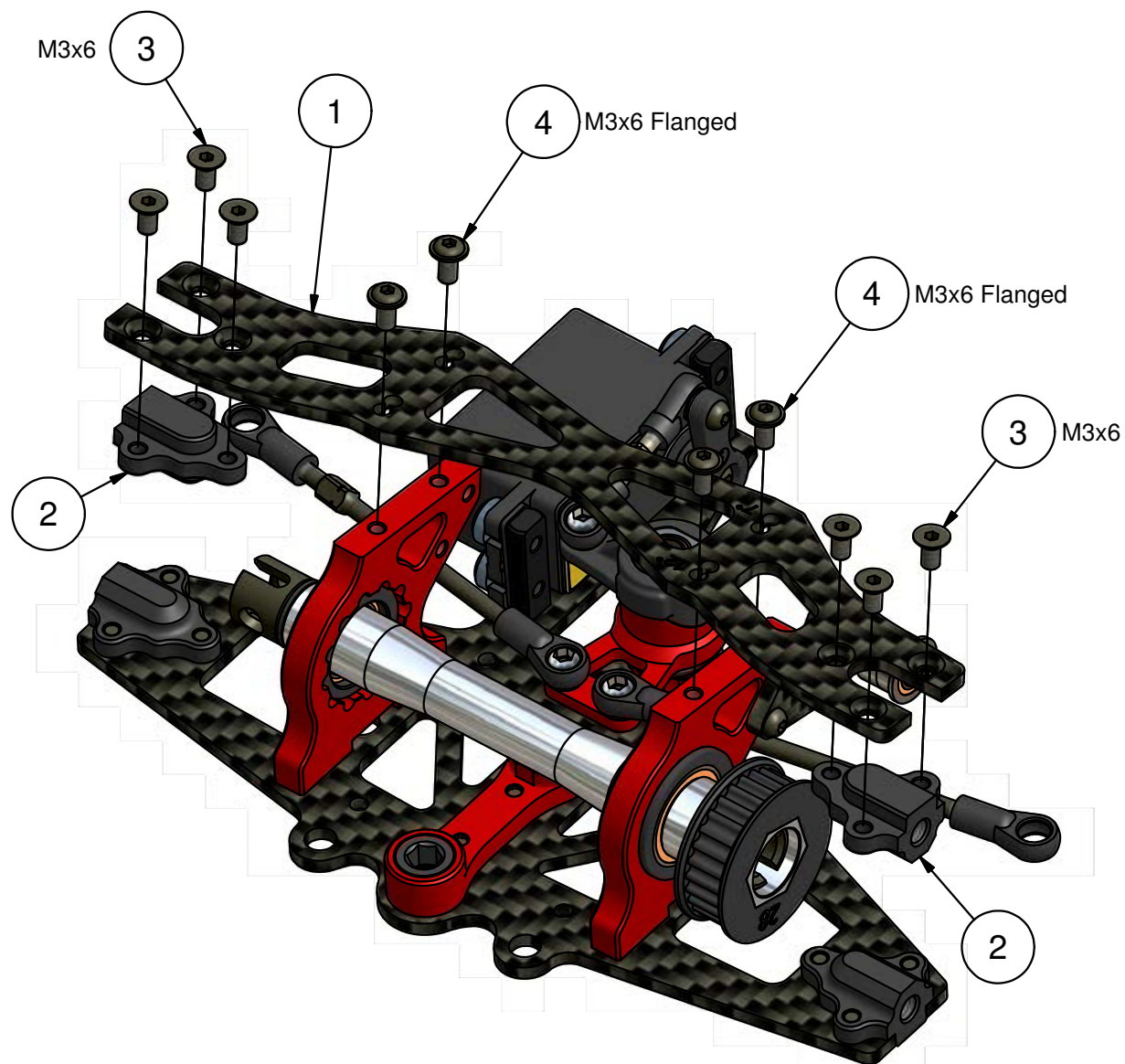
Made in Italy



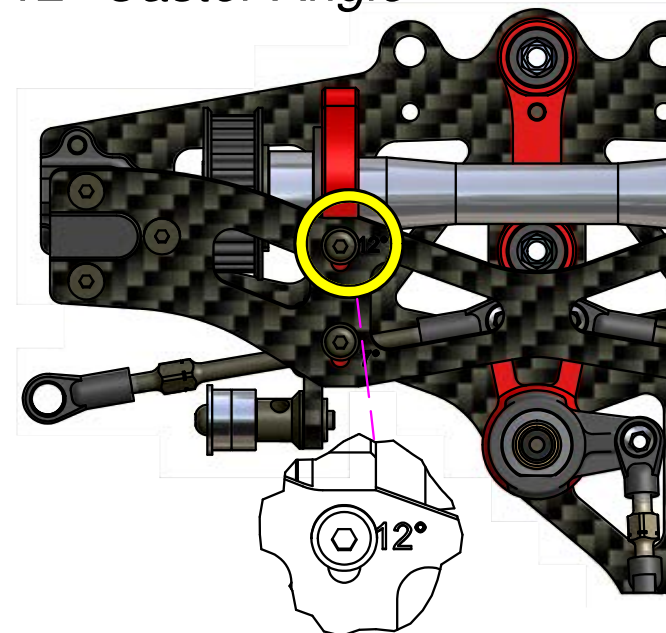
Step 1.2

- Front Assembly - BAG 1

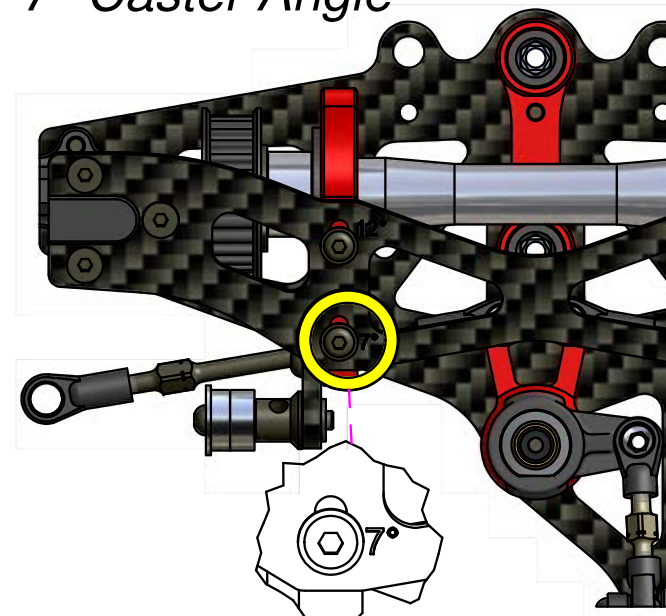
Capricorn RC



12° Caster Angle



7° Caster Angle



Made in Italy

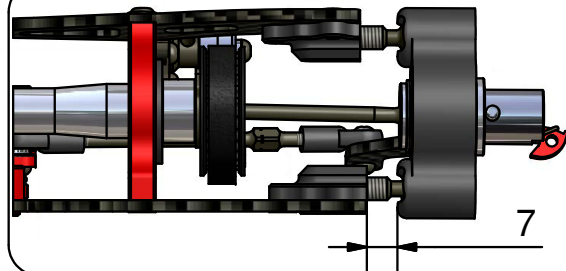


Step 2.0

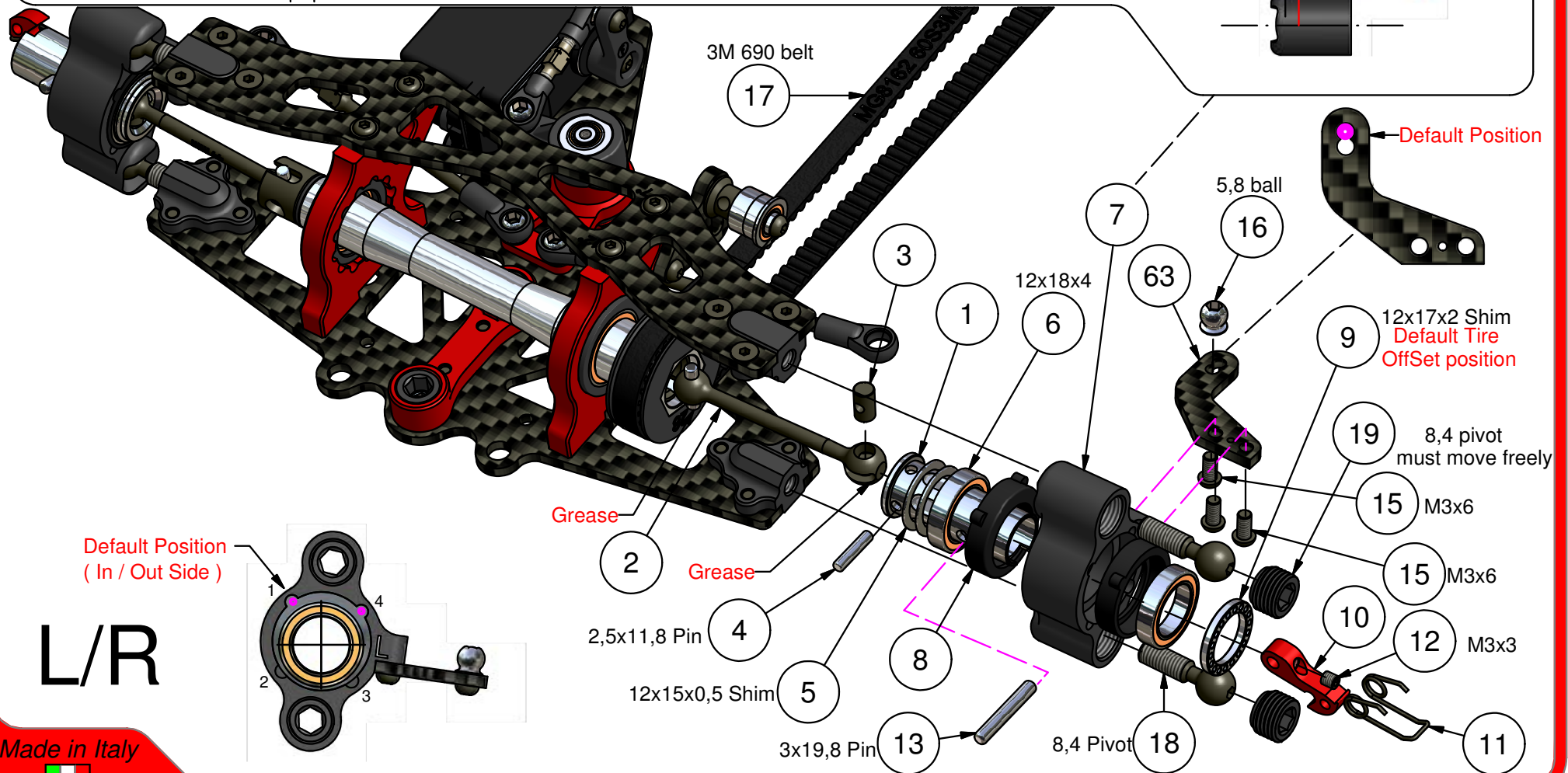
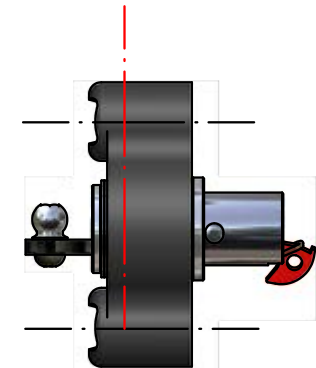
- Front Assembly - BAG 2

Capricorn RC

NEW STEERING HUB KING-PIN 0



L/R



Made in Italy



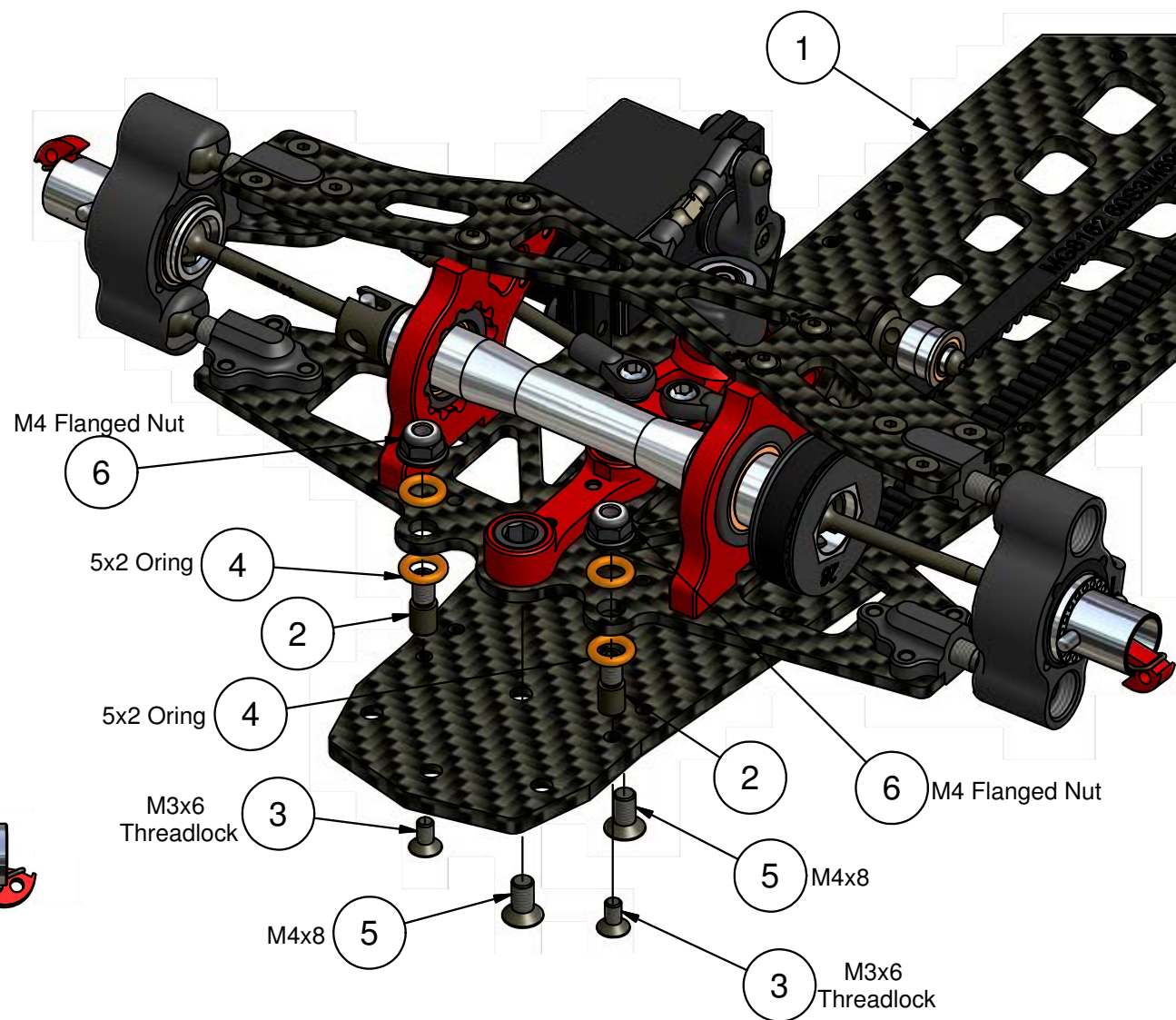
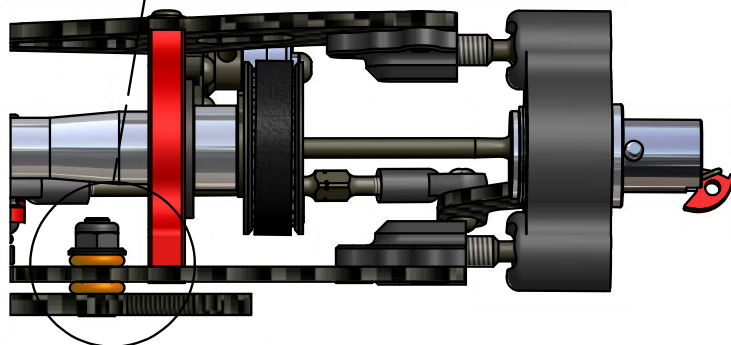
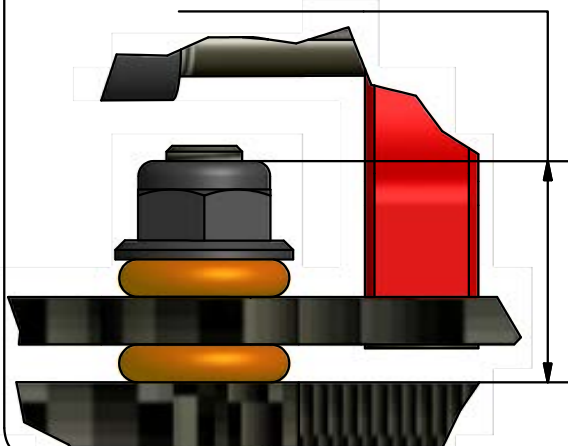
Step 2.1

- Front Assembly - BAG 2

Capricorn RC

Front End Rigidity Adjustment

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



L/R

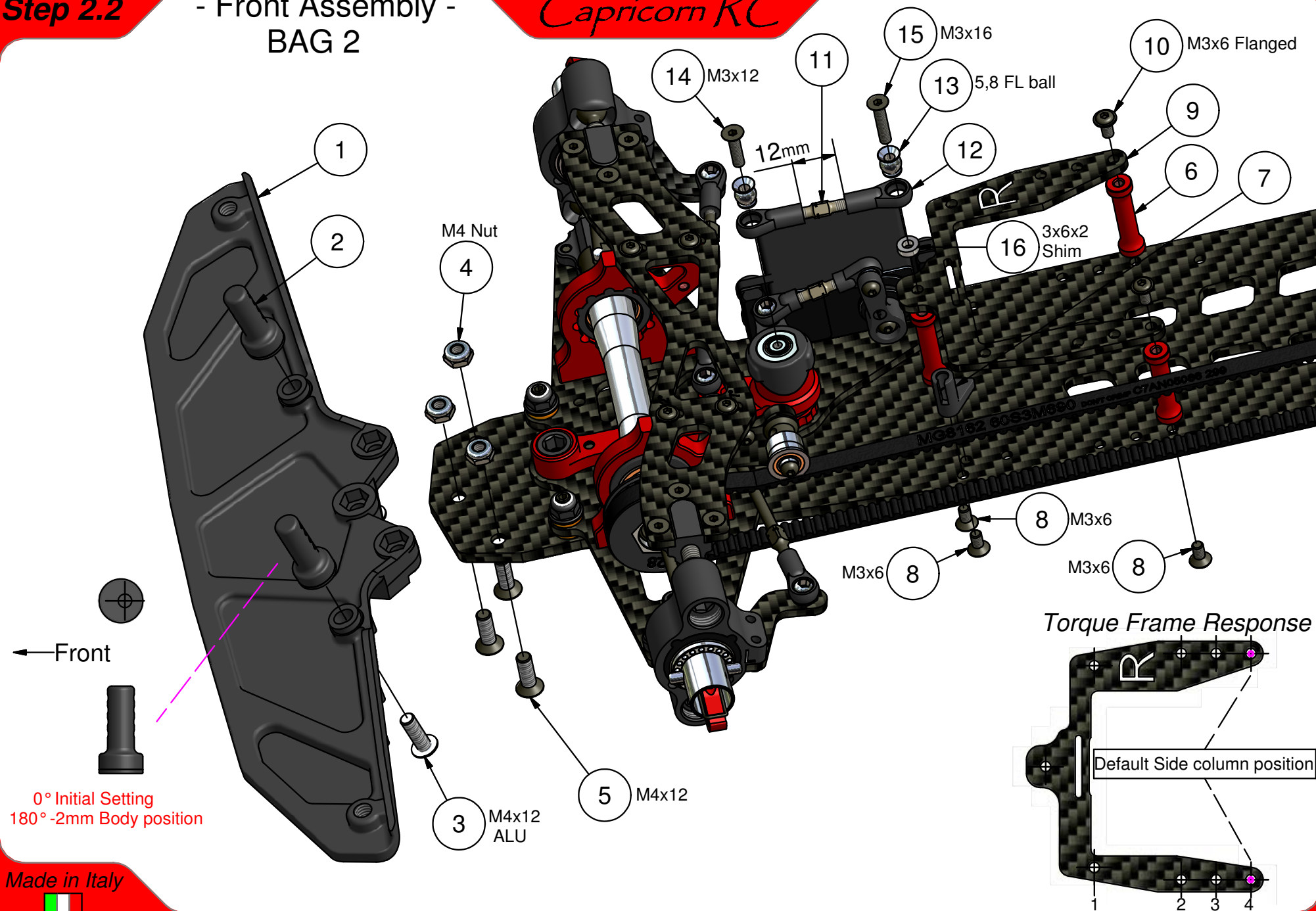
Made in Italy



Step 2.2

- Front Assembly - BAG 2

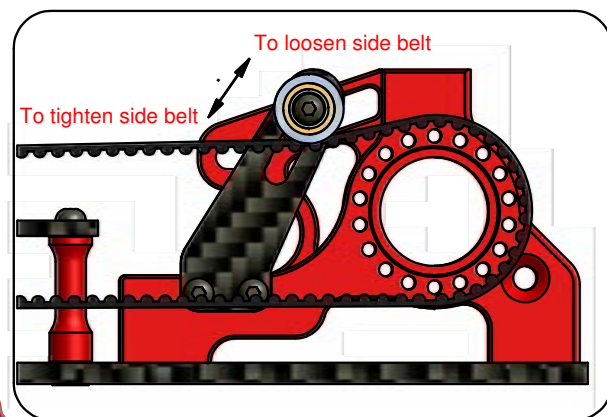
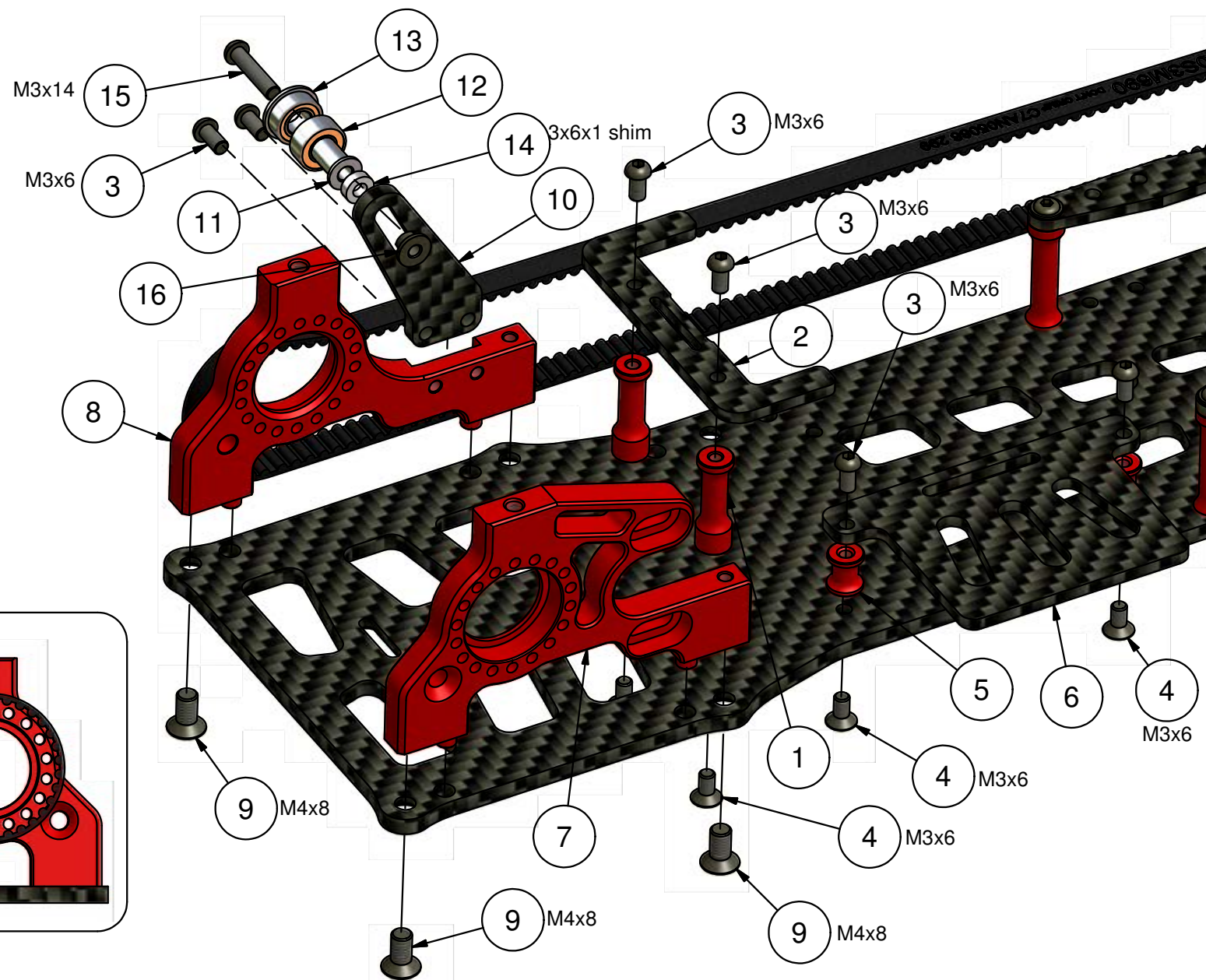
Capricorn RC



Step 3.0

- Rear Assembly - BAG 3

Capricorn RC



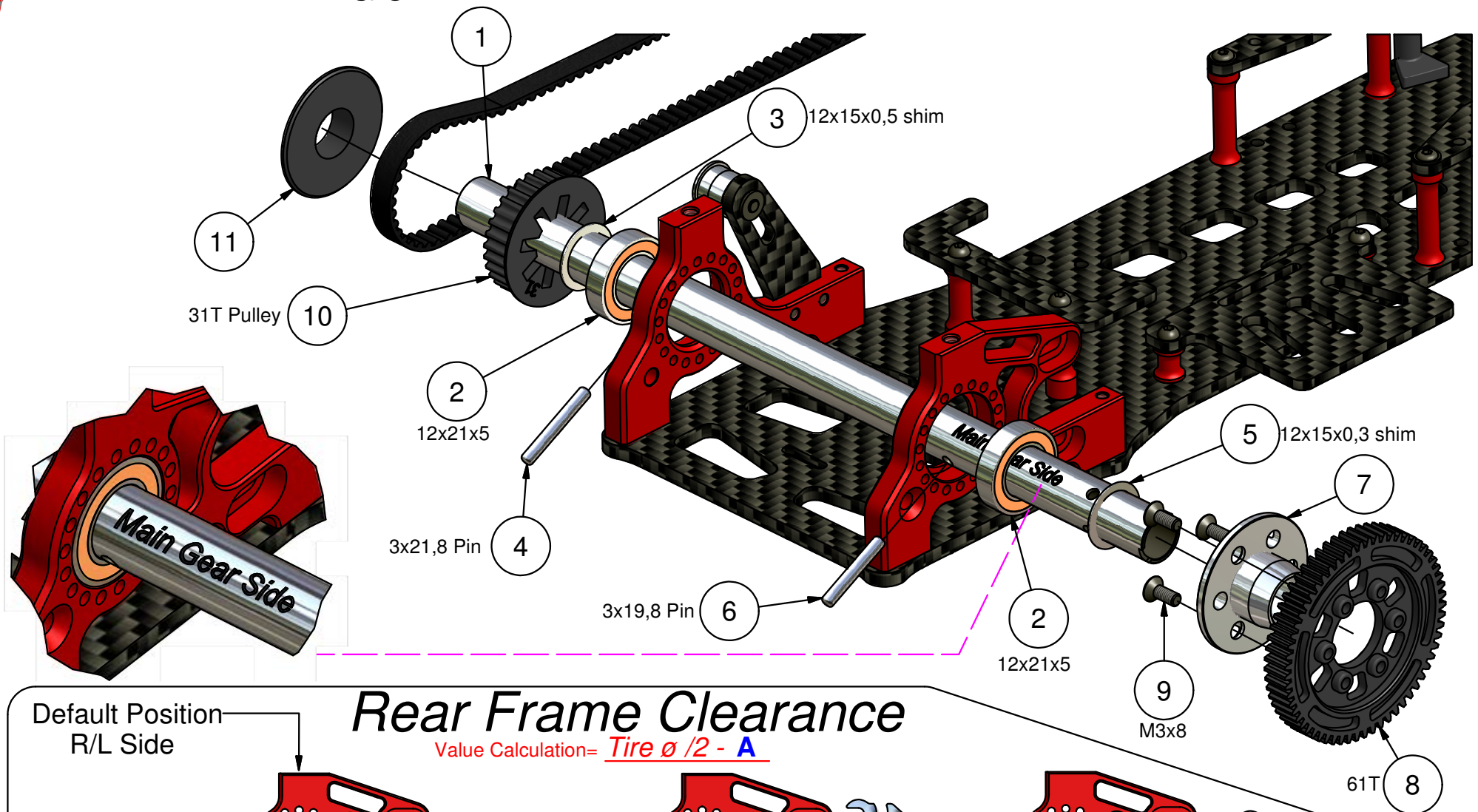
Made in Italy



Step 3.1

- Rear Assembly - BAG 3

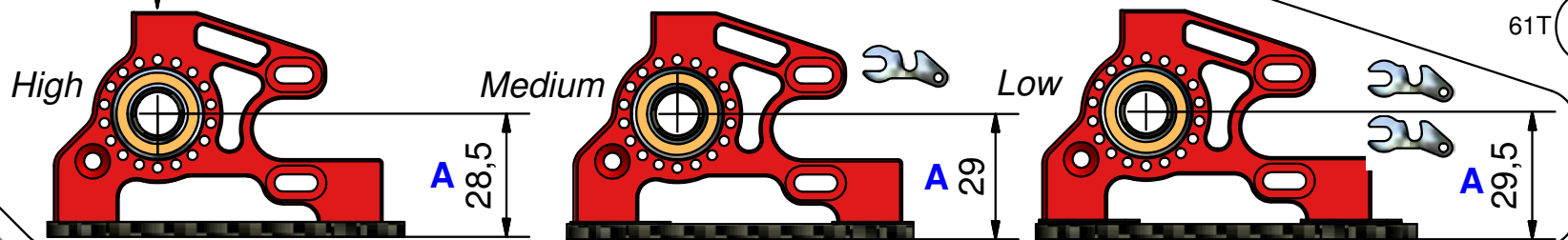
Capricorn RC



Default Position
R/L Side

Rear Frame Clearance

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



Made in Italy

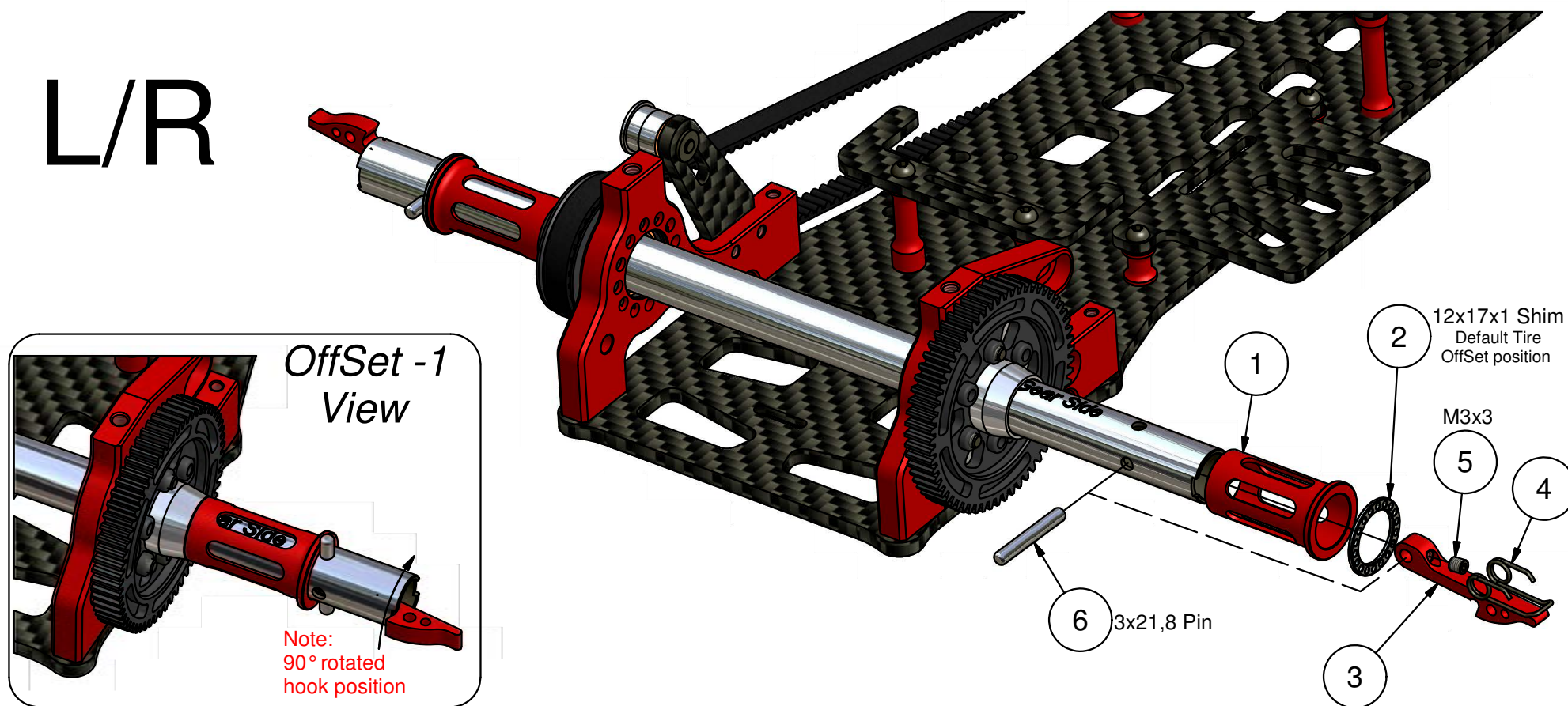


Step 3.2

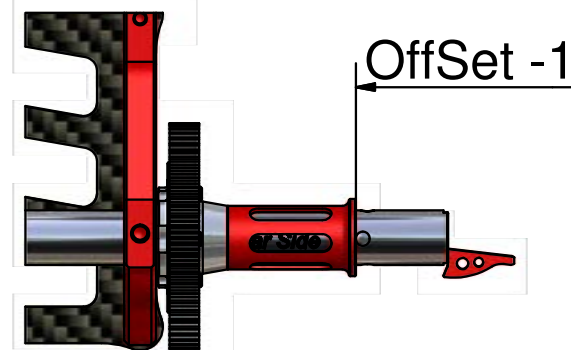
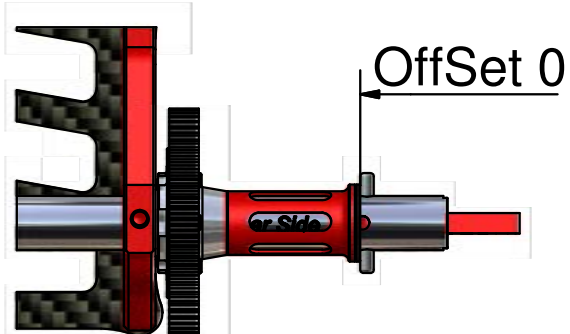
- Rear Assembly -
BAG 3

Capricorn RC

L/R



Rear Track



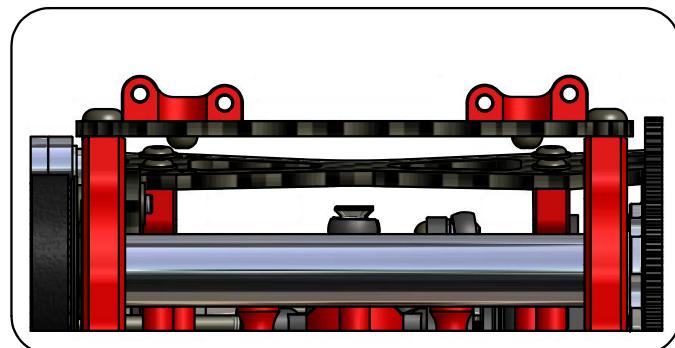
Made in Italy



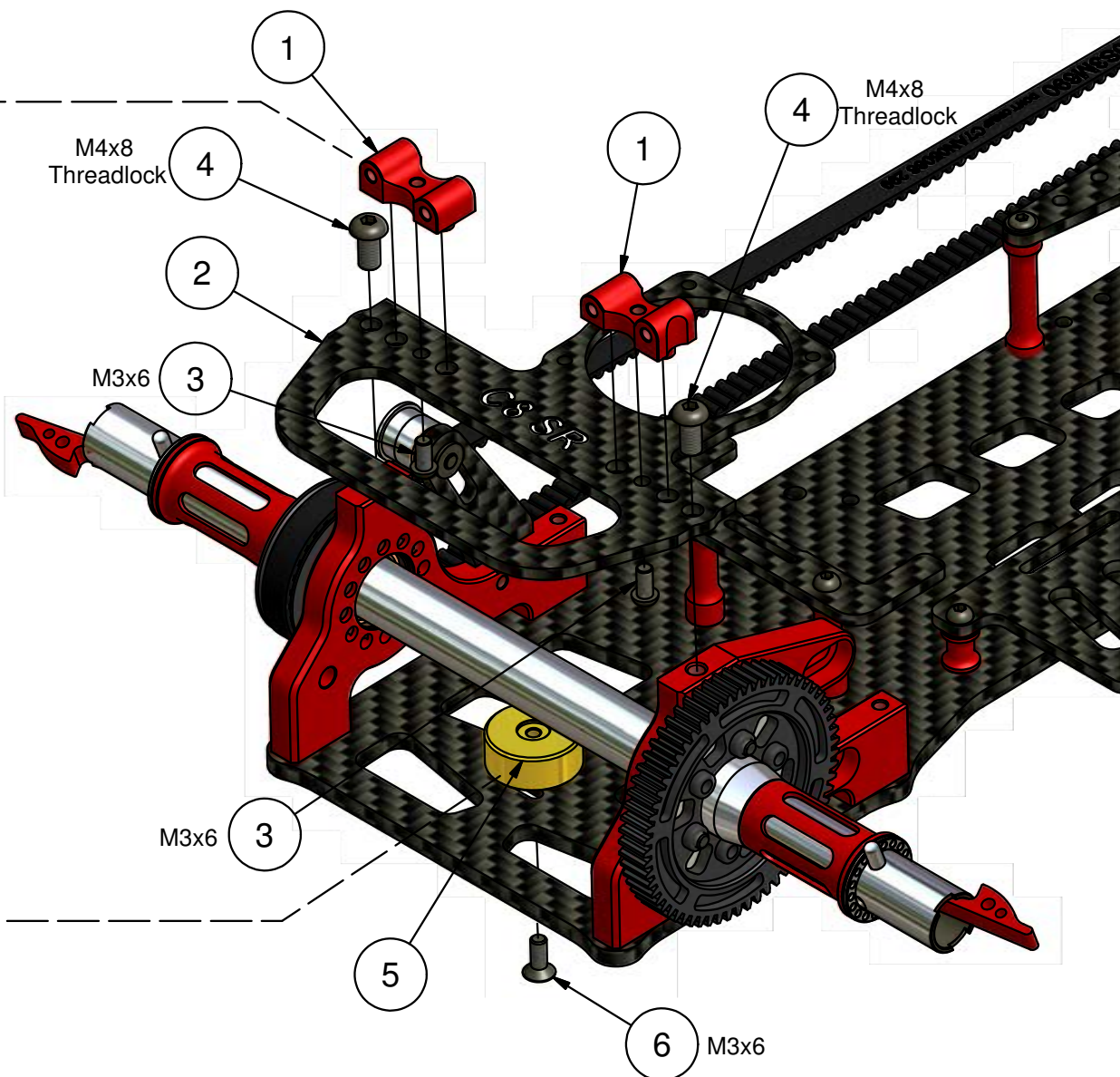
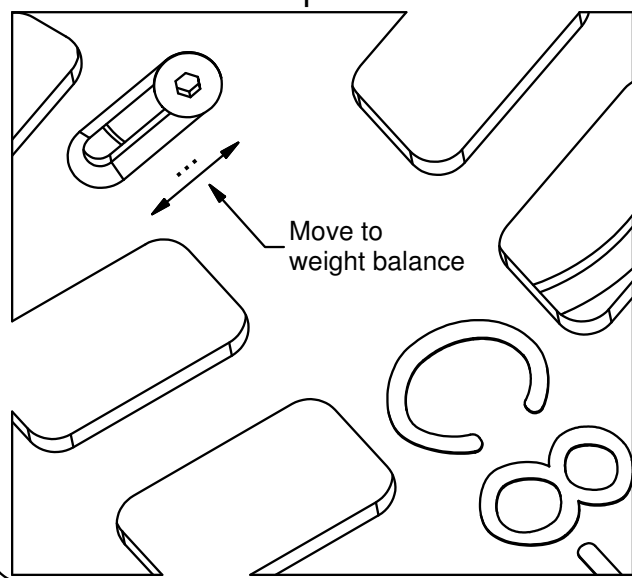
Step 4.0

- Rear Assembly - BAG 4

Capricorn RC



OPTION 15gr Brass Weight
code Cap 2300



Made in Italy

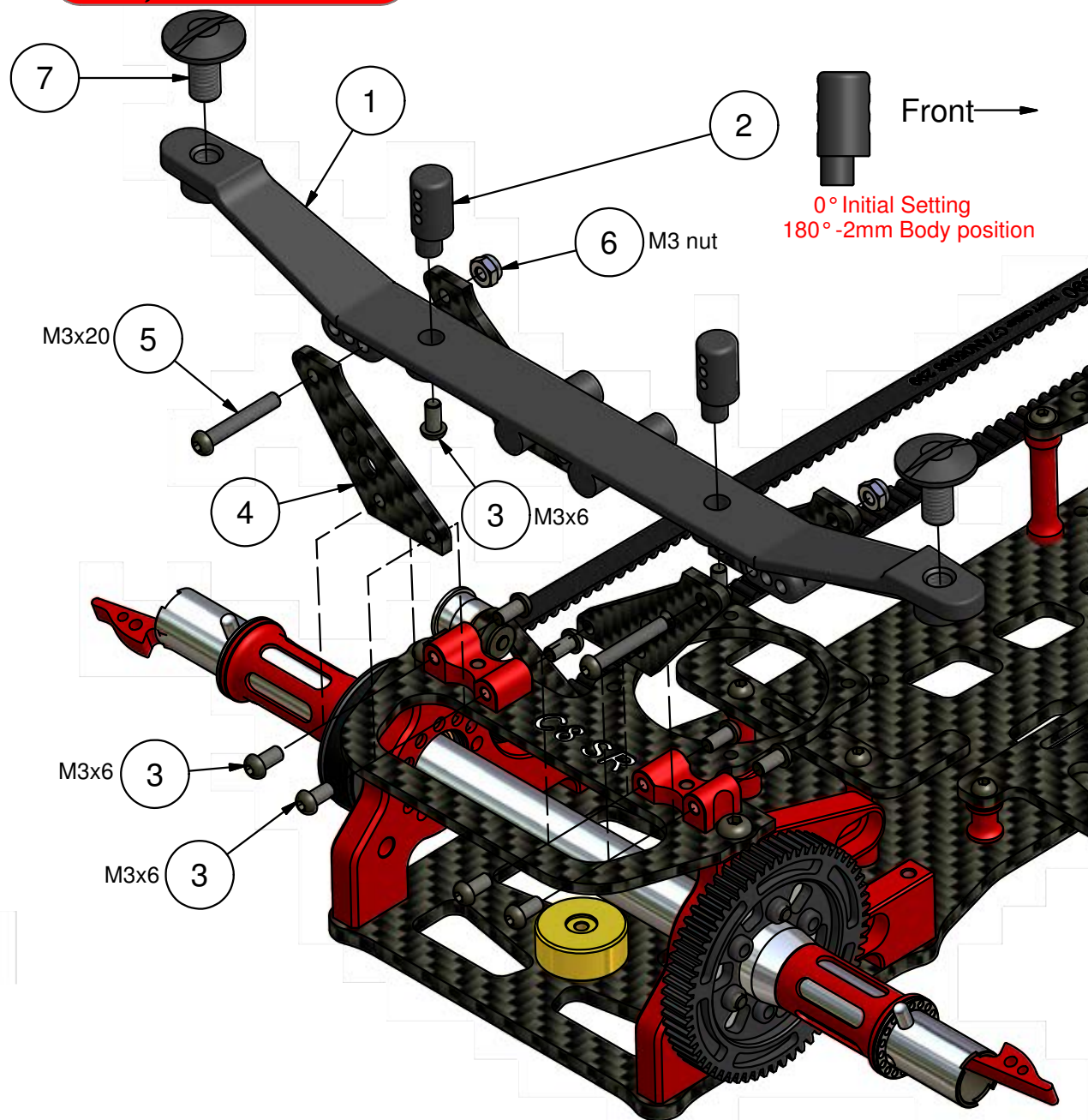
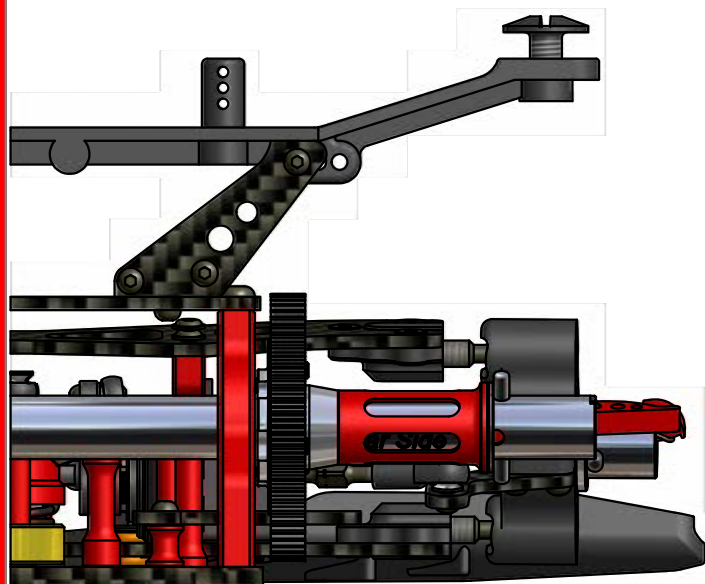


Step 4.1

- Rear Assembly - BAG 4

Capricorn RC

L/R



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Step 4.2

- Electronics Assembly - BAG 4

Capricorn RC

1900kv Motor
NOT INCLUDED

1
M4x4
4
3
Pinion
NOT INCLUDED

6 M3x12 4S 5200mA Li-Po Battery
NOT INCLUDED

40x40 FAN
NOT INCLUDED

7
Fiber Tape
NOT INCLUDED

10
Receiver
NOT INCLUDED

9
4S 140A ESC
NOT INCLUDED

2 M4x8

2 M4x8

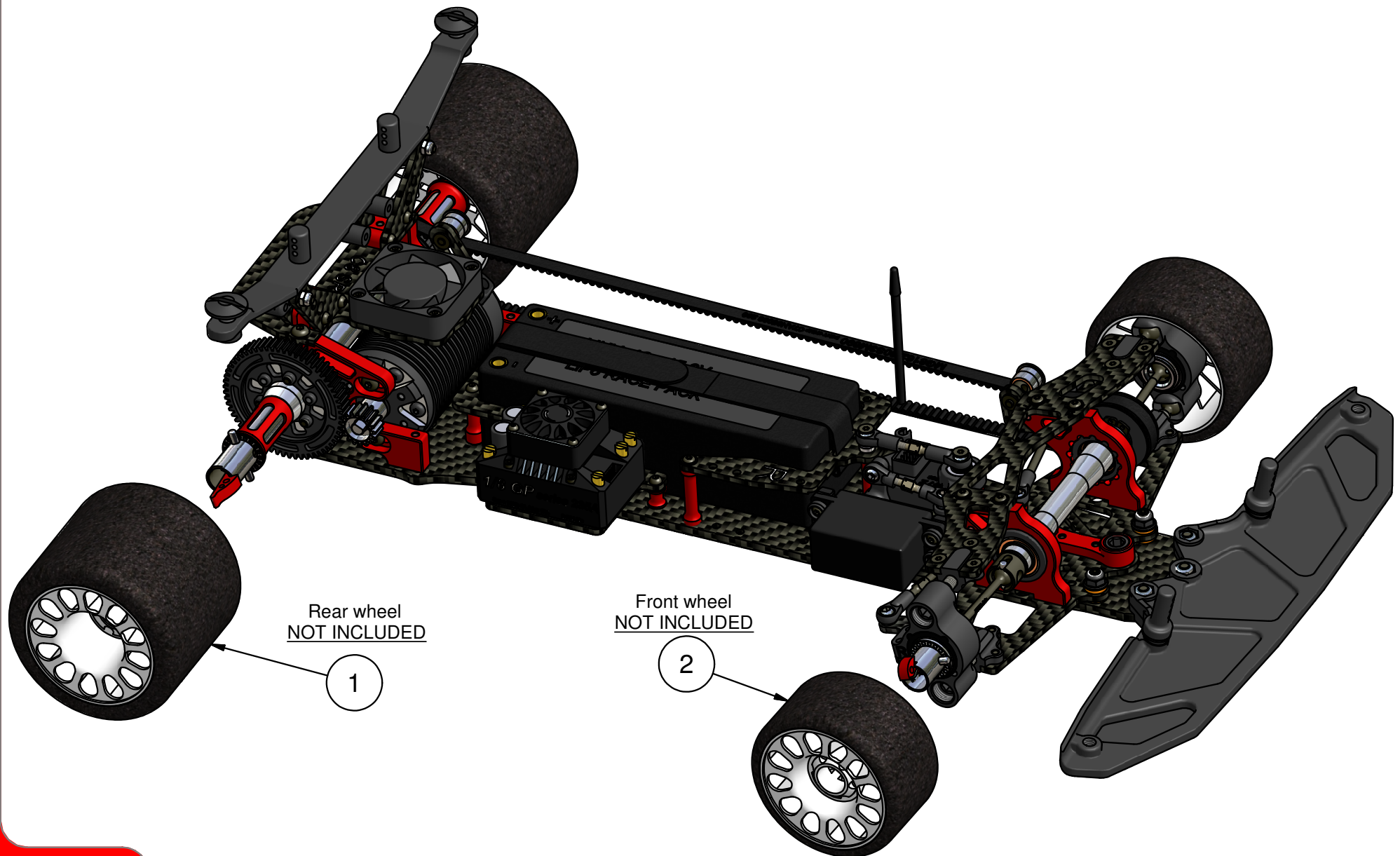
Made in Italy



Step 4.3

- Final Assembly -

Capricorn RC



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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

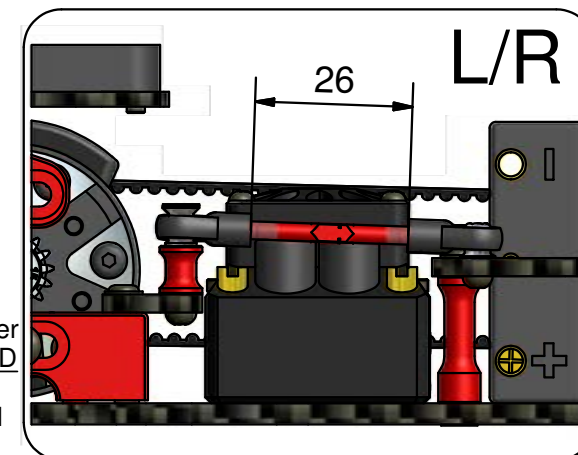
To ESC

To ESC

Male to Male
connector adapter
NOT INCLUDED

M3x6 Flanged

M3x16



M3x6 Flanged

M3x10

5,8 Flanged ball

M3x6

5,8 ball

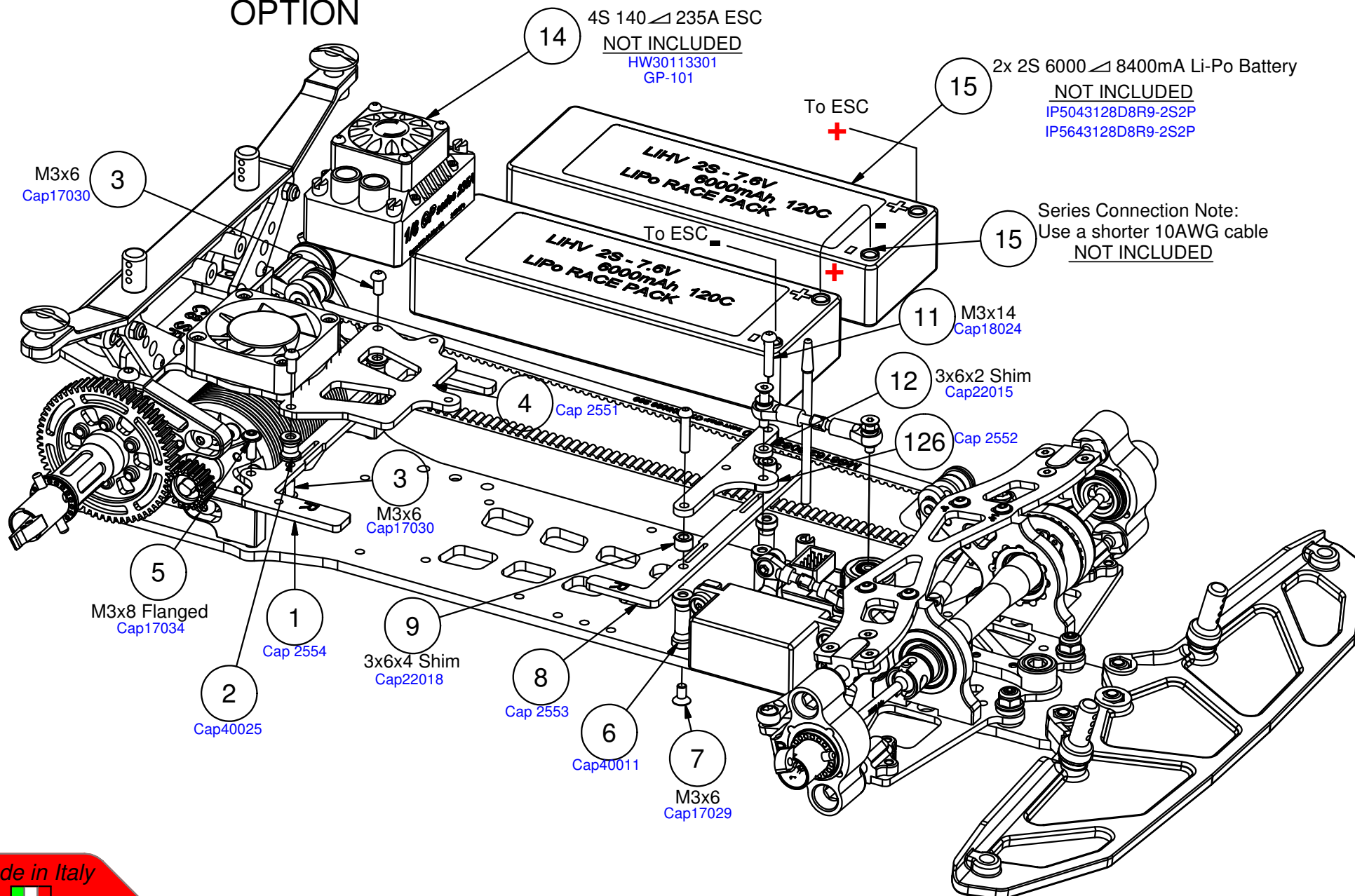
M3x6

Default link position

Made in Italy



- Side to Side Li-Po Battery - OPTION



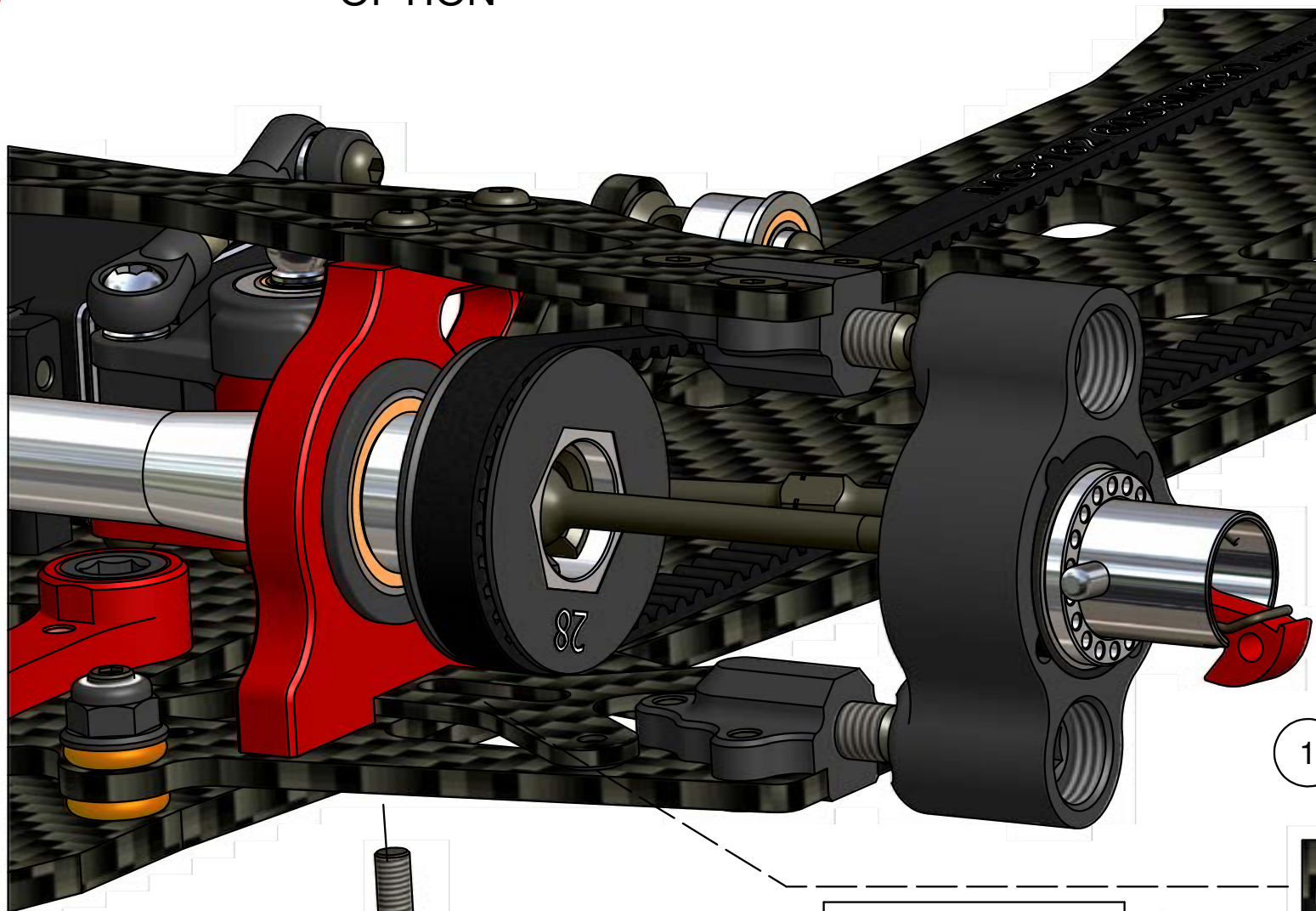
Made in Italy



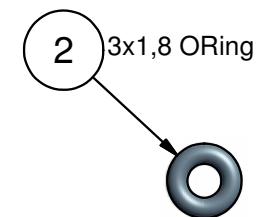
- Front Stiffness link -
OPTION

Capricorn RC

L/R

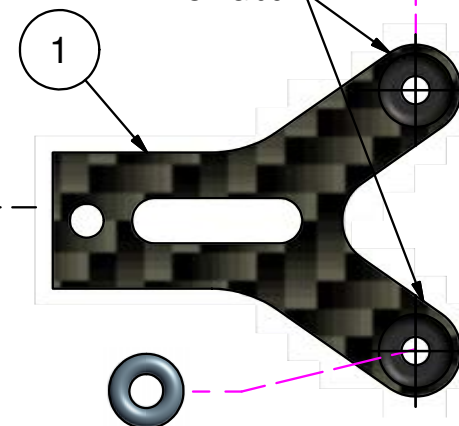


3 M3x6



3x1,8 ORing

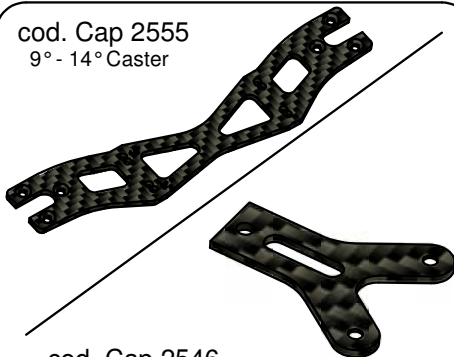
CA Glue



- Option Parts -

Capricorn RC

cod. Cap 2555
9° - 14° Caster

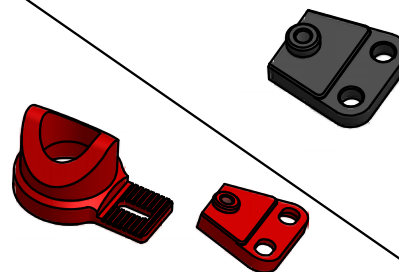


cod. Cap 2546



cod. Cap18027

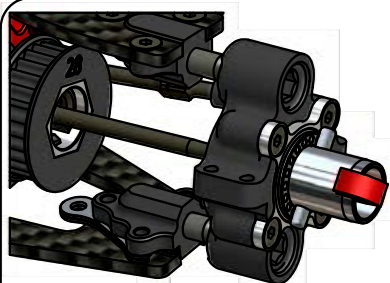
cod. Cap 2280-K
Ack 8,5



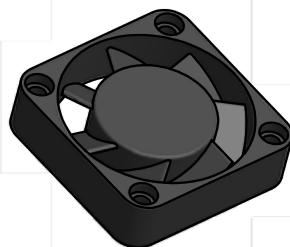
cod. Cap 2181-K



cod. Cap 2248



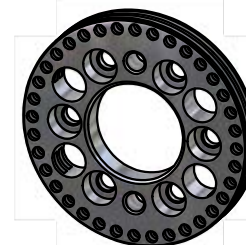
Front High Precision HUB Kit
cod. Cap 2567



40x40 FAN
cod. One90134



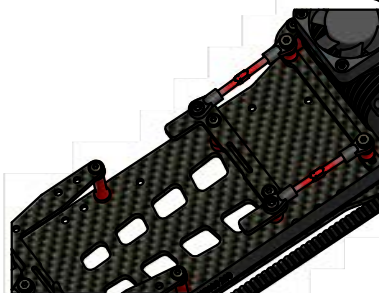
60T - 62T
cod. Cap 2050B-60 cod. Cap 2050B-62



cod. Cap 2558-K



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



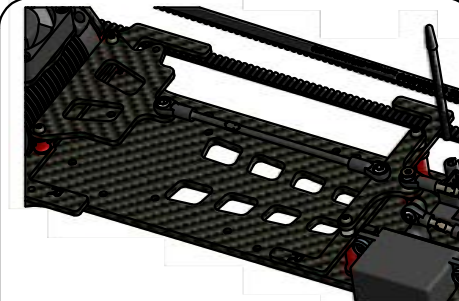
M3x6mm cod. Cap29268
M3x8mm cod. Cap29269
M3x10mm cod. Cap29270
M3x14mm cod. Cap29272



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



Side to Side Li-Po Conversion
cod. Cap 2556-K

Made in Italy



C8 SR DEFAULT SET-UP SHEET

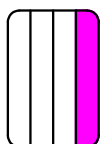
Capricorn RC

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

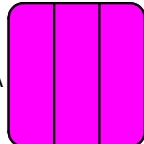
TRACK SURFACE	☐ CARPET	☒ ASPHALT
TRACK LAYOUT	☐ TECHNICAL	☒ MIXED
TRACTION	☐ LOW	☒ MEDIUM
		☐ FAST
		☐ HIGH

AXLE POSITION	ACK	CASTER	TURBO	TURBO DELAY
1 FRONT	0 REAR SHIM	11 mm	10 %	0,3 /sec
		7° 9° 12° 14°		

FRONT	TIRES	REAR
	B BRAND	
32	SHORE	35
64	DIAMETER	69
252	TRACK WIDTH	263



ADDITIVE
TREATED AREA

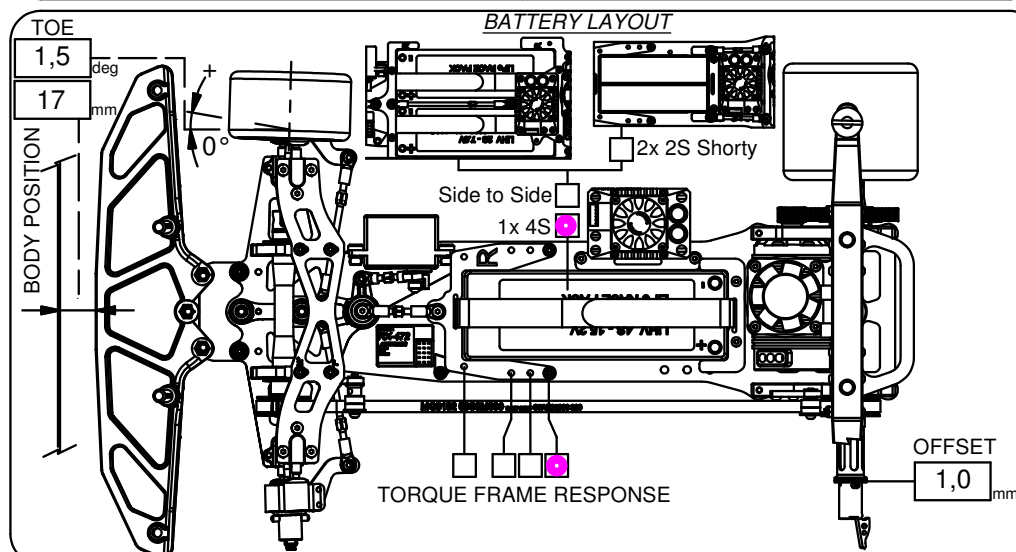
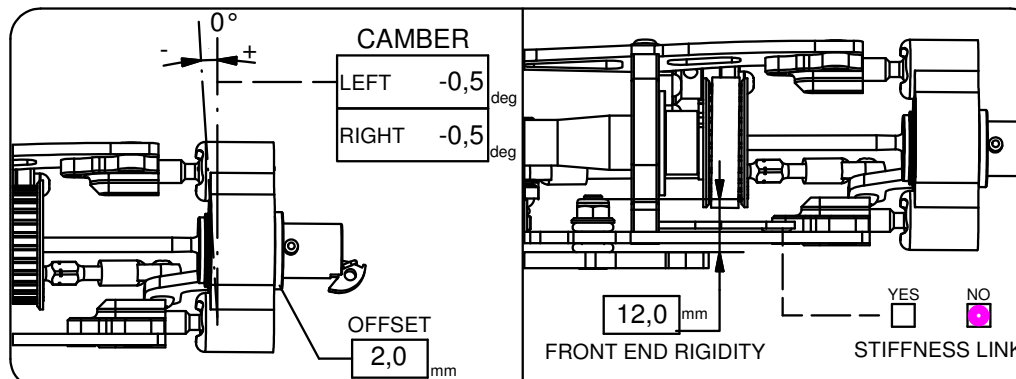
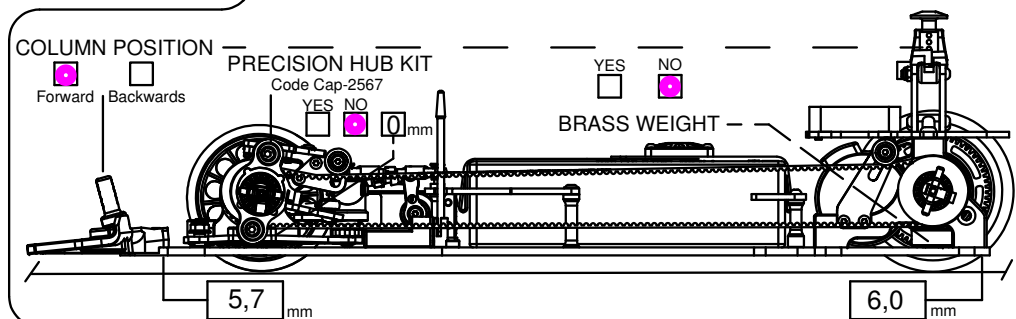


BOOST SETTING
0 ☒ ☐ ☐ ☐ ☐ ☐
LOW MEDIUM HIGH

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 -



Made in Italy



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	☐	FAST
TRACTION	☐	LOW	☐	MEDIUM	☐	HIGH

AXLE POSITION		ACK	CASTER	TURBO	TURBO DELAY
	mm	mm		%	/sec
FRONT	REAR SHIM		7° 9° 12° 14°		

FRONT	TIRES	REAR
	B BRAND	
	SHORE	
	DIAMETER	
	TRACK WIDTH	

BOOST SETTING

0 ☒ ☐ ☐ ☐ ☐ ☐

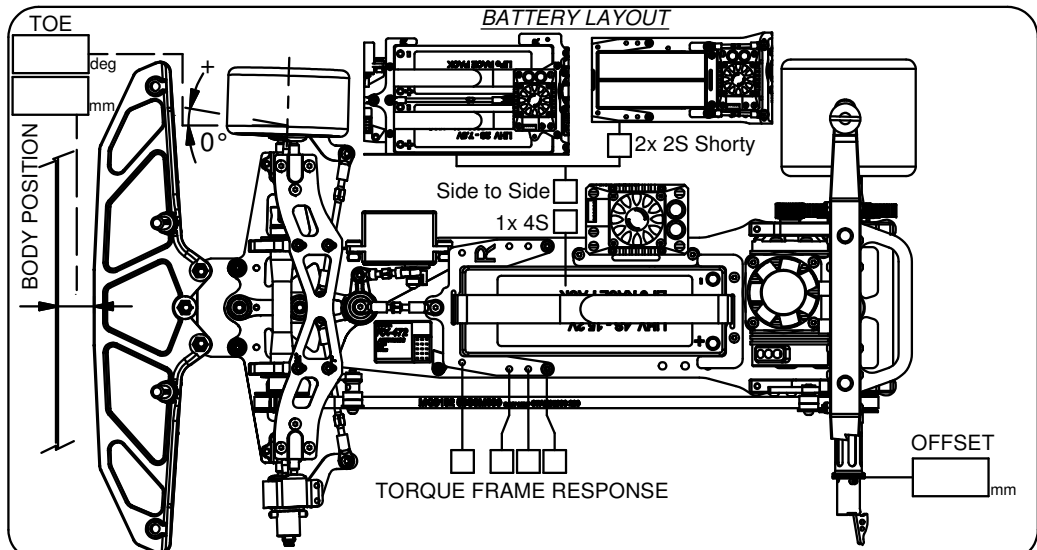
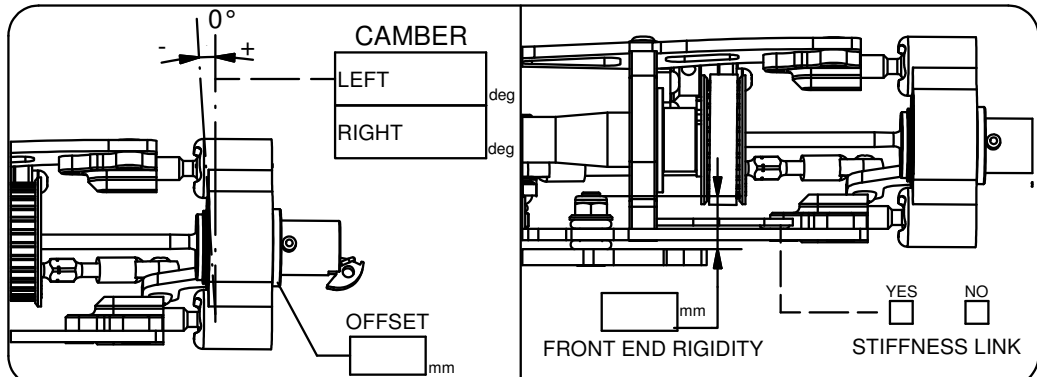
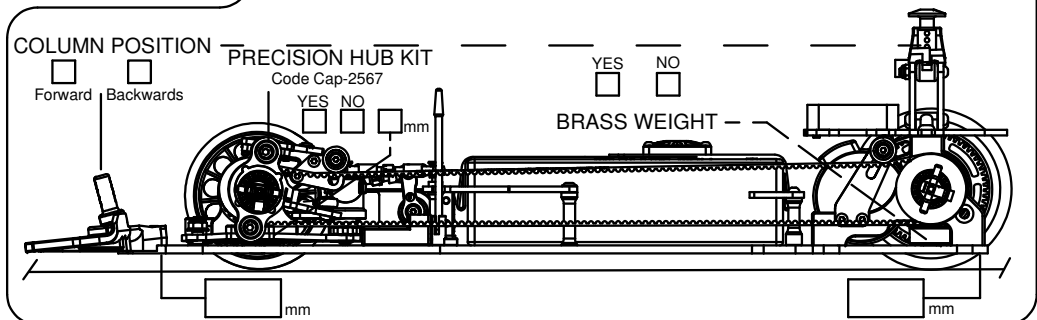
LOW MEDIUM HIGH

GEARING		
PINION	SPUR GEAR	DRIVE RATIO

MOTOR	
ESC	
BATTERY	
BODY	

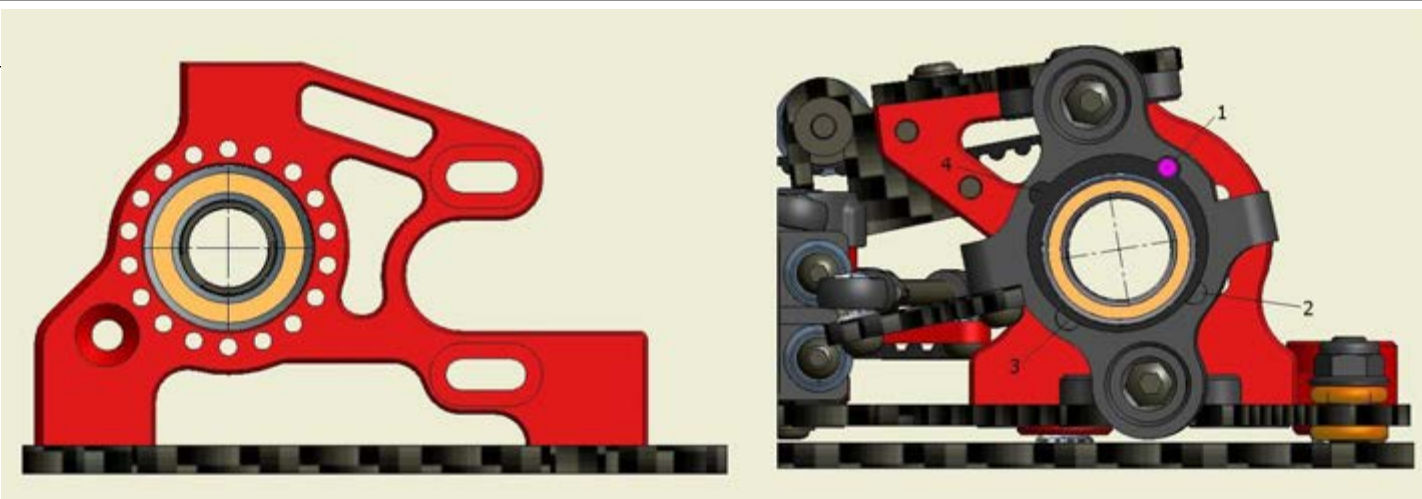
- NOTES - _____

Made in Italy



Made in Italy

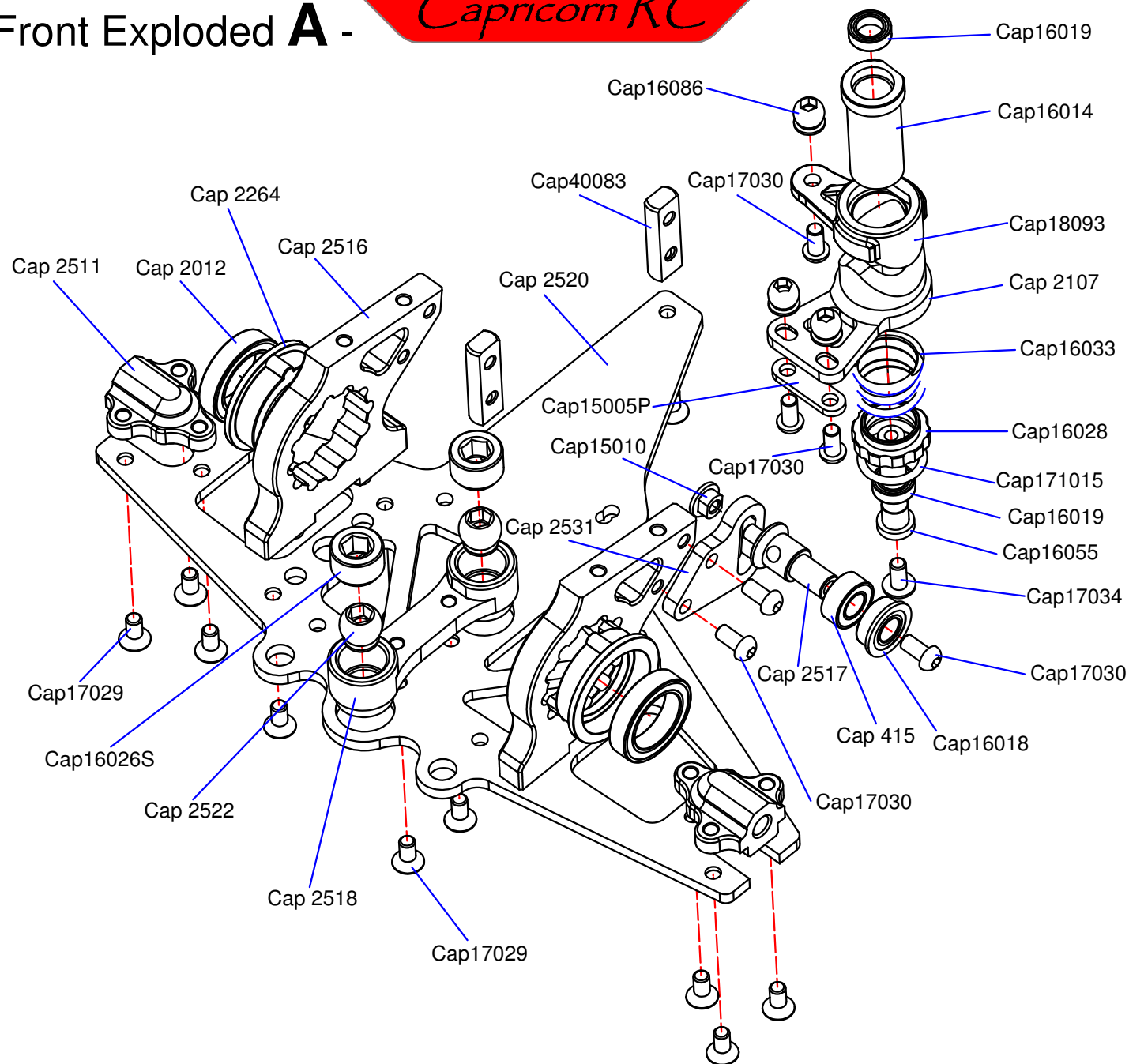


Frame Clearance mm																
Tire ø	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
Rear Axle Position																
High	/	/	/	/	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00	8,50	9,00	
Medium	/	/	/	/	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00	8,50	
Low	/	/	/	/	3,00	3,50	4,00	4,50	5,00	5,50	6,00	6,50	7,00	7,50	8,00	
Front Axle Position																
High 1	4,20	4,70	5,20	5,70	6,20	6,70	7,20	7,70	8,20	8,70	/	/	/	/	/	
2	3,60	4,10	4,60	5,10	5,60	6,10	6,60	7,10	7,60	8,10	/	/	/	/	/	
4	3,30	3,80	4,30	4,80	5,30	5,80	6,30	6,80	7,30	7,80	/	/	/	/	/	
Low 3	2,70	3,20	3,70	4,20	4,70	5,20	5,70	6,20	6,70	7,20	/	/	/	/	/	
REAR														FRONT		

RATIO	Spur											
Pinion	60	61	62									
15	4,000	4,067	4,133									
16	3,750	3,813	3,875		Brushless Motor:			1900kv				
17	3,529	3,588	3,647		Battery:			4S (2 x 2S HV 8400mAh 120C)				
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						
15	51,051	51,836	52,622	53,407	54,193	54,978	55,763	56,549	57,334	58,120	58,905	
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						
15	50,214	50,987	51,759	52,532	53,304	54,077	54,849	55,622	56,394	57,167	57,939	
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						
15	49,404	50,164	50,924	51,684	52,444	53,205	53,965	54,725	55,485	56,245	57,005	
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	
	Zero Boost / zero Turbo Speed calculation example											
	Kv motor	1900	RPM									
	Rollout	60,411	mm	V=	104,680	Km/h	V(km/h)= Volt batt × Kv motor × rollout × 0,00006					

- Front Exploded **A** -

Capricorn RC

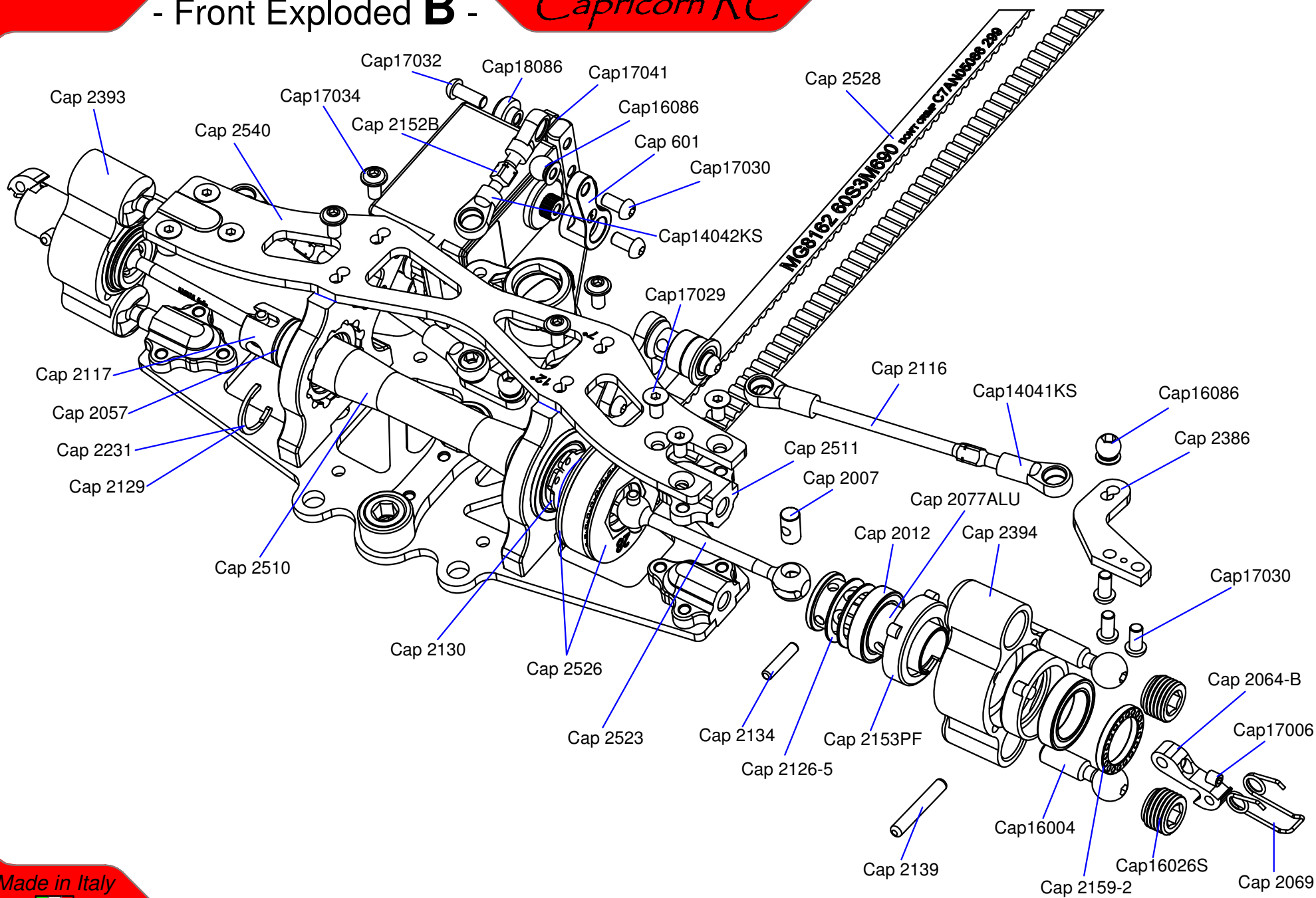


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- Front Exploded B -

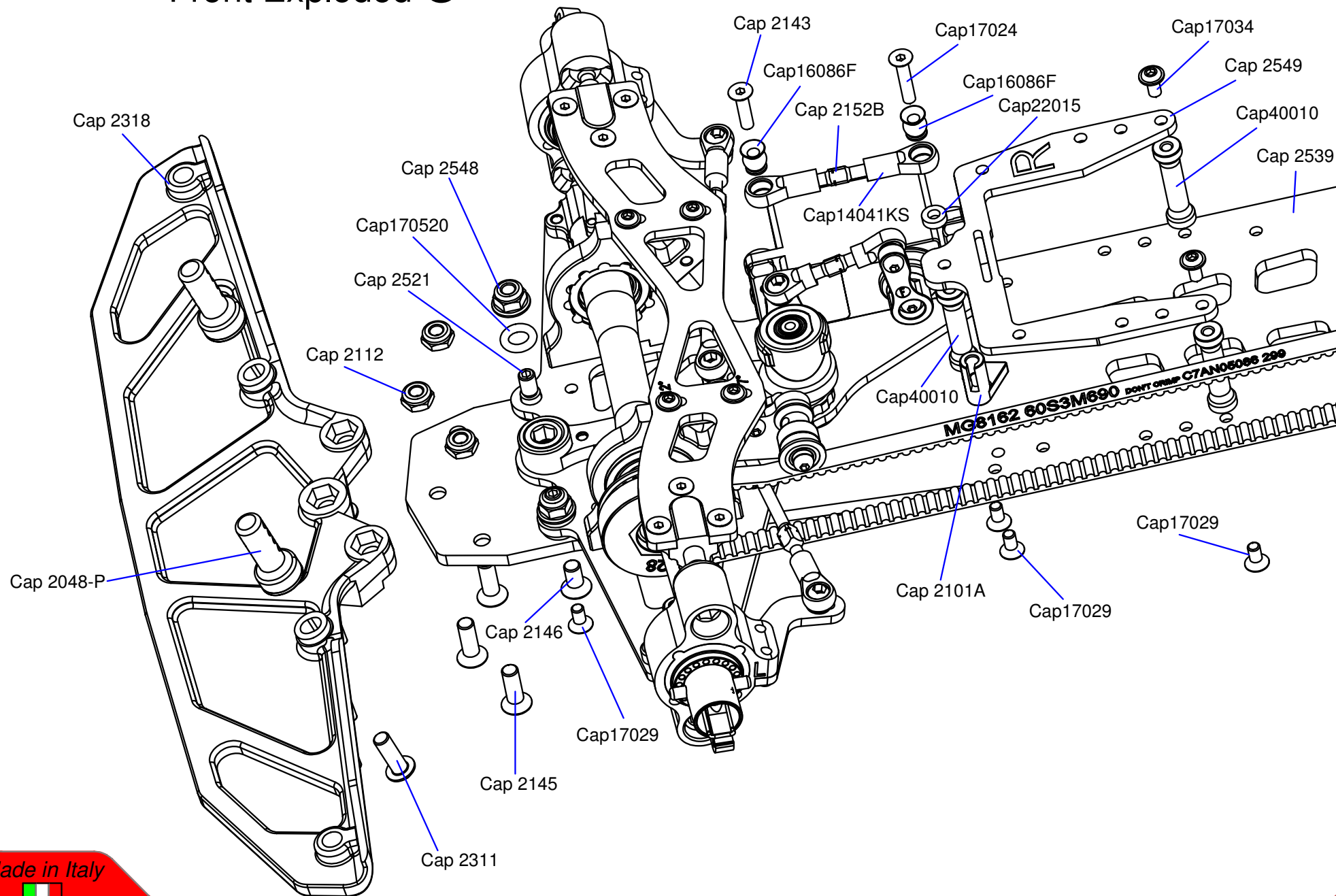
Capricorn RC



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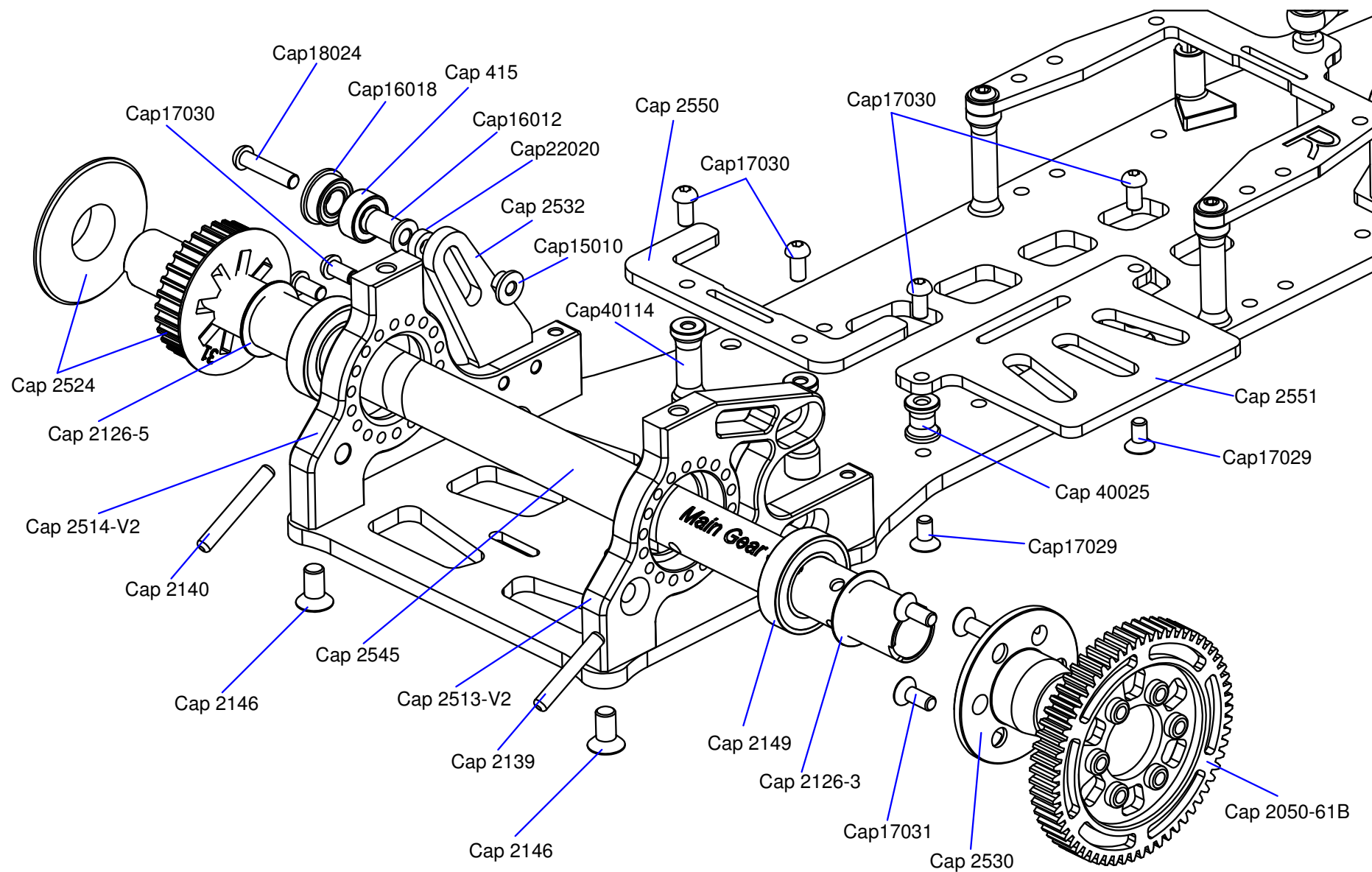


- Front Exploded C - *Capricorn RC*



- Rear Exploded **D** -

Capricorn RC

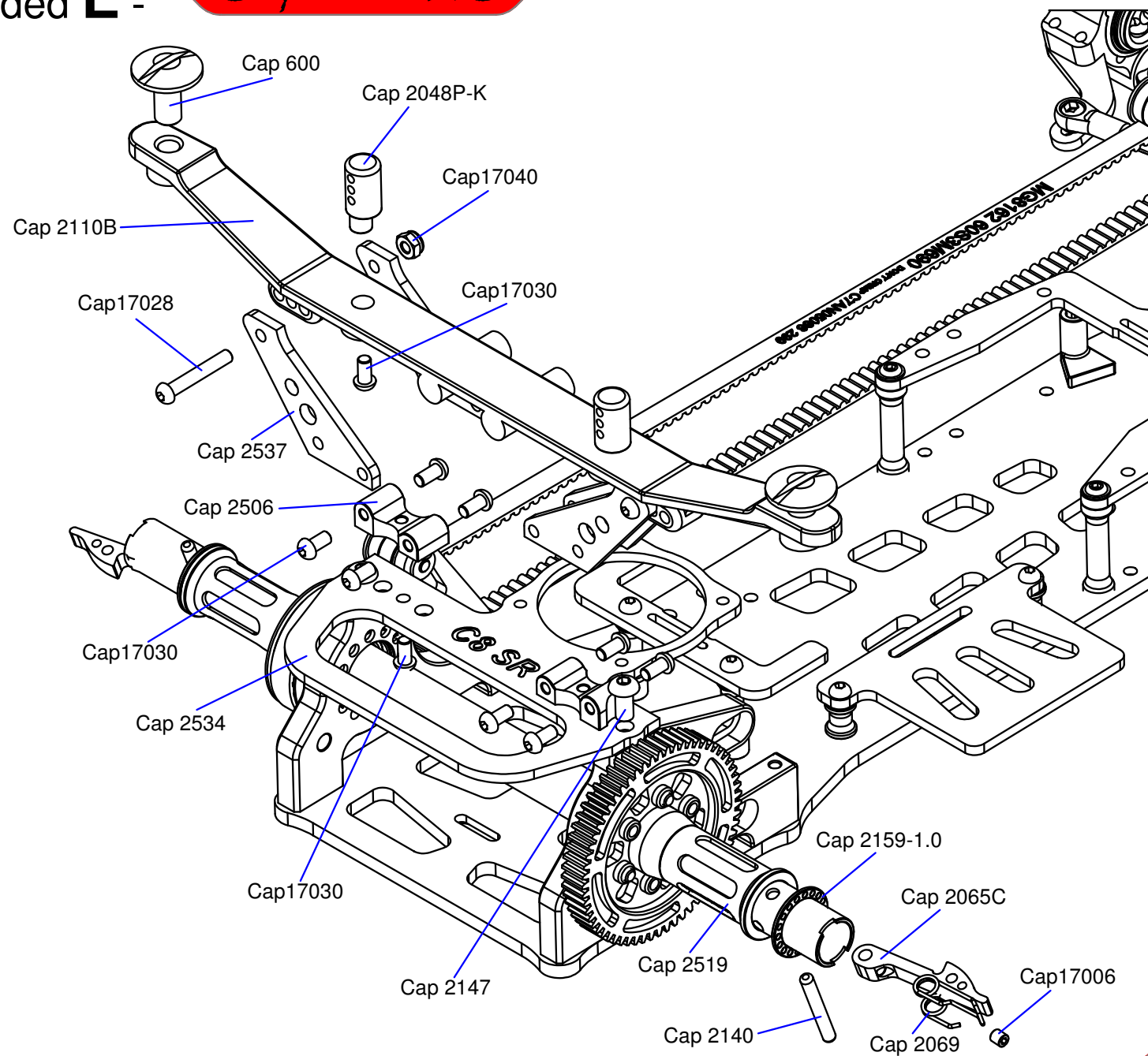


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- Rear Exploded **E** -

Capricorn RC



- Exploded **F** - Electronic Equipment

Capricorn RC

BRUSHLESS MOTOR

1900KV HW30101901
2200KV HW30401903

FAN SCREWS
Cap17026

40X40 FAN
WTF-4010

4S LIPO BATTERY
IP9243128D8R9-4S1P

IP5043128D8R9-4S2P

Cap14001

RECEIVER
107A41117A

Cap17010

PINION

Cap 2541
Cap 2542
Cap 2543
Cap 2544

Cap 2147

ESC
HW-30113301

LCD PROGRAM BOX
HW-30502000

LP SERVO
TS108LP

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