



# **SPECTER 700**

## **MANUAL**

**ROCK YOUR DREAM**

## ***IMPORTANT NOTES:***

- \*THIS RADIO CONTROLLED HELICOPTER IS NOT A TOY.
- \*THIS RADIO CONTROLLED HELICOPTER CAN BE VERY DANGEROUS.
- \*THIS RADIO CONTROLLED HELICOPTER IS A TECHNICALLY COMPLEX DEVICE WHICH HAS TO BE BUILT AND HANDLED VERY CAREFULLY.
- \*THIS RADIO CONTROLLED HELICOPTER MUST BE BUILT FOLLOWING THESE INSTRUCTIONS. THIS MANUAL PROVIDES THE NECESSARY INFORMATION TO CORRECTLY ASSEMBLE THE MODEL. IT IS NECESSARY TO CAREFULLY FOLLOW ALL THE INSTRUCTIONS.
- \*INEXPERIENCED PILOTS MUST BE MONITORED BY EXPERT PILOTS.
- \*A RADIO CONTROLLED HELICOPTER MUST ONLY BE USED IN OPEN SPACES WITHOUT OBSTACLES, AND FAR ENOUGH FROM PEOPLE TO MINIMIZE THE POSSIBILITY OF ACCIDENTS OR OF INJURY TO PROPERTY OR PERSONS.
- \*A RADIO CONTROLLED HELICOPTER CAN BEHAVE IN AN UNEXPECTED MANNER, CAUSING LOSS OF THE MODEL, MAKING IT VERY DANGEROUS.
- \*LACK OF CARE WITH ASSEMBLY OR MAINTENANCE CAN RESULT IN AN UNRELIABLE AND DANGEROUS MODEL.

NEITHER XLPOWER NOR ITS AGENTS HAVE ANY CONTROL OVER THE ASSEMBLY, MAINTENANCE AND USE OF THIS PRODUCT. THEREFORE, NO RESPONSIBILITY CAN BE TRACED BACK TO THE MANUFACTURER. YOU HEREBY AGREE TO RELEASE XLPOWER FROM ANY RESPONSIBILITY OR LIABILITY ARISING FROM THE USE OF THIS PRODUCT.

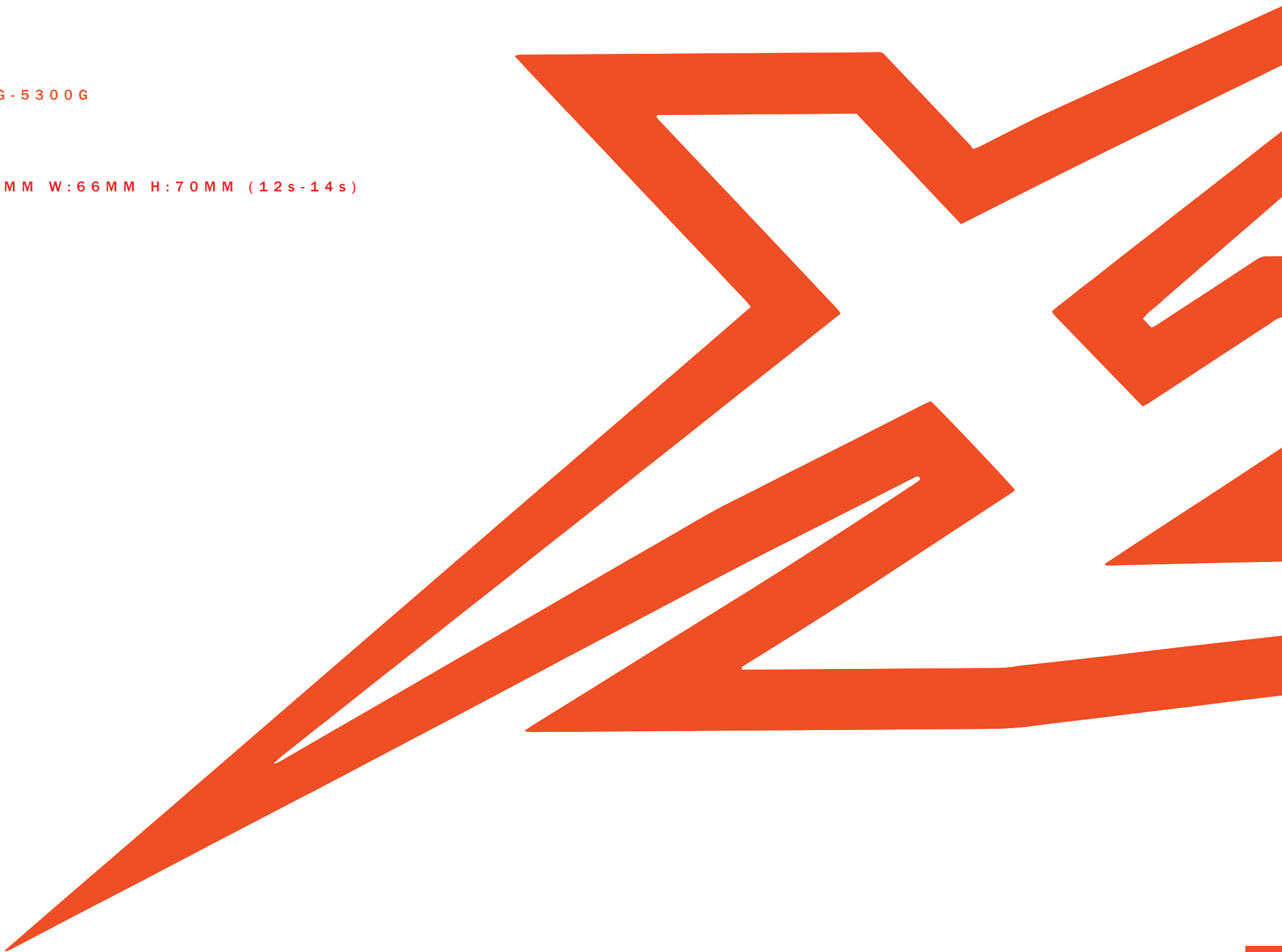
## ***SAFETY GUIDELINES:***

- \*FLY ONLY IN AREAS DEDICATED TO THE USE OF MODEL HELICOPTERS.
- \*FOLLOW ALL CONTROL PROCEDURES FOR THE RADIO FREQUENCY SYSTEM.
- \*IT IS NECESSARY THAT YOU KNOW YOUR RADIO SYSTEM WELL. CHECK ALL FUNCTIONS OF THE TRANSMITTER BEFORE EVERY FLIGHT.
- \*THE BLADES OF THE MODEL ROTATE AT A VERY HIGH SPEED; BE AWARE OF THE DAMAGE THEY MAY CAUSE.
- \*NEVER FLY IN THE VICINITY OF OTHER PEOPLE.



**SPECIFICATION:**

LENGTH:	1 3 0 0 M M
WIDTH:	1 3 4 M M
HEIGHT:	3 7 6 M M
MAIN ROTOR BLADES:	6 8 5 - 7 1 6 M M
TAIL ROTOR BLADES:	1 0 5 - 1 1 5 M M
MOTOR PINION:	1 1 T I N C L U D E D ; 1 0 , 1 2 O P T I O N A L
MAIN GEAR:	1 0 6 T
TAIL PINION:	1 7 T
AUTOROTATION GEAR:	8 0 T
MAIN TO TAIL GEAR RATIO:	4 . 7
RTF WEIGHT:	4 9 0 0 G - 5 3 0 0 G
MAIN SHAFT DIAMETER:	1 5 M M
FEATHERING SHAFT DIAMETER:	1 0 M M
TAIL BOOM DIAMETER:	2 7 M M
BATTERY TRAY SIZE:	L : 3 5 0 M M W : 6 6 M M H : 7 0 M M ( 1 2 s - 1 4 s )





! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

HB-1

HB-1-1

HB-1-2

HB-1-4

HB-1-5

HB-1-6

THRUST BEARING



INSIDE



OUTSIDE

APPLY GREASE

CUSTOMISABLE

INNER HOLE: AGILE



OUTER HOLE: STABLE

PITCH ARM

BEARING  
10x19x7

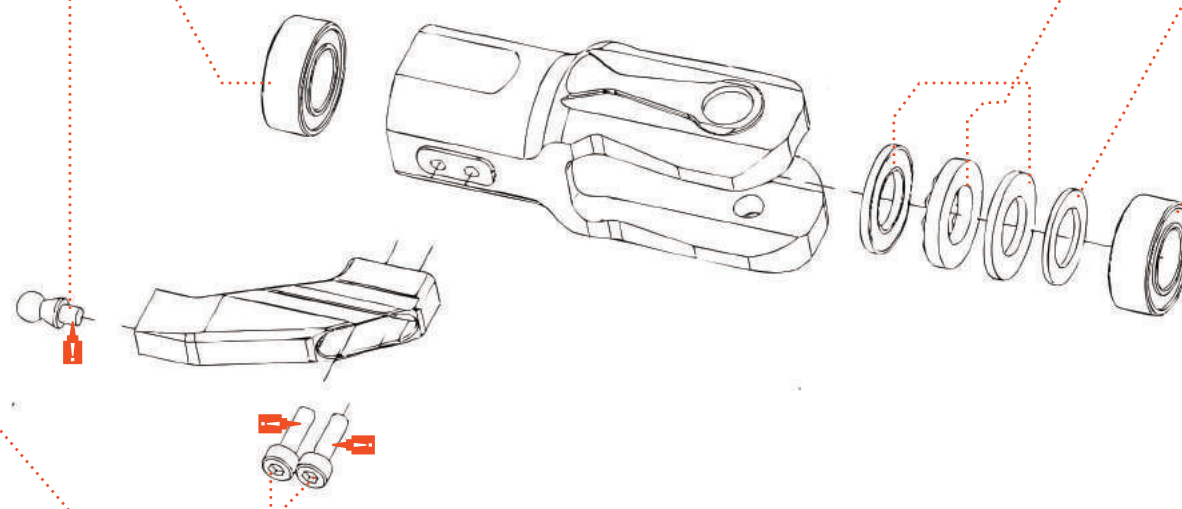
LINKAGE BALL  
5x10.6

SCREW  
M3x10

THRUST BEARING  
10x18x5.5

WASHER  
10x16x1

BEARING  
10x19x7



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

HB-1

HB-1-1

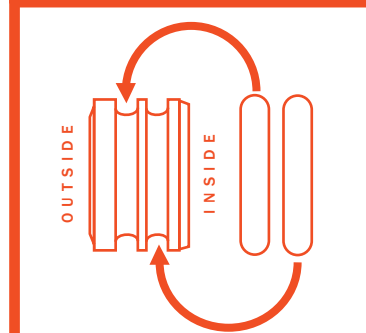
HB-1-2

HB-1-4

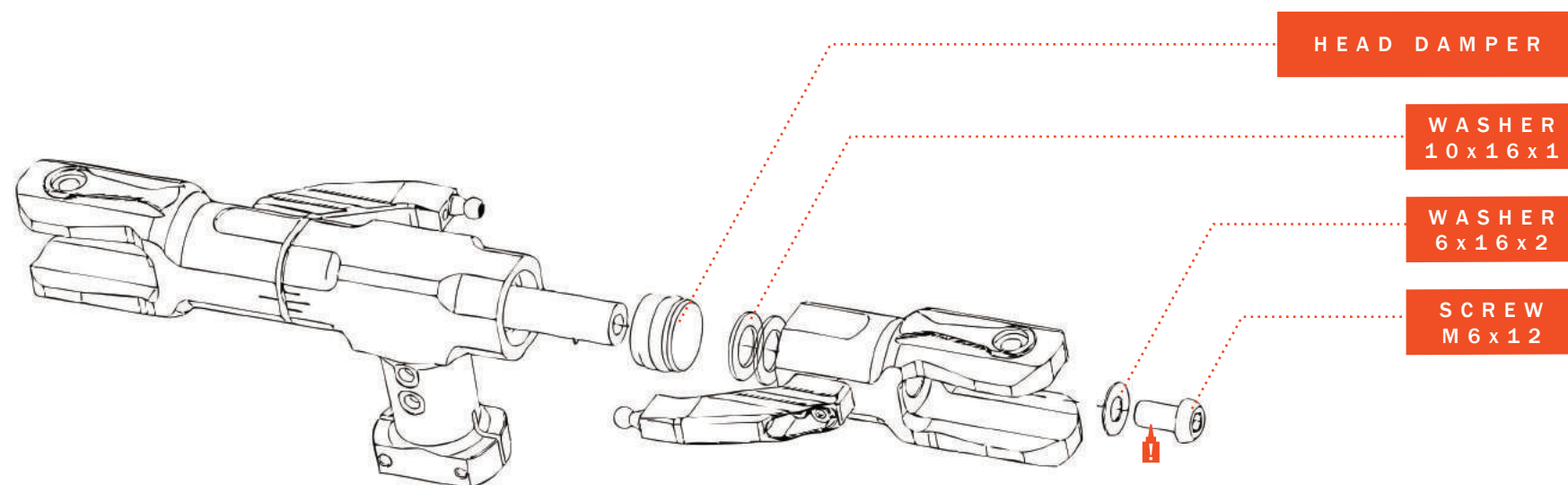
HB-1-5

HB-1-6

PUT THE O-RINGS



ONTO THE DAMPER



THE BLADE GRIPS MUST MOVE FREELY  
BUT THEY SHOULD NOT MOVE JUST  
FROM THEIR OWN WEIGHT

ADD MORE 0.1MM SHIMS  
IF PRELOAD CHANGED  
HB-1-6

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

HB-1

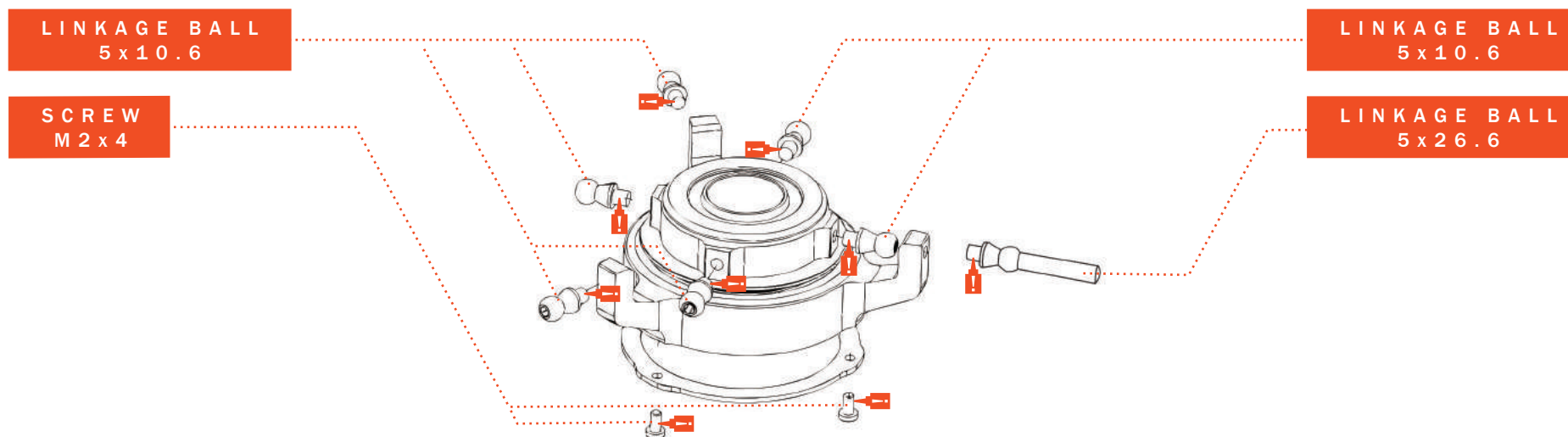
HB-1-1

HB-1-2

HB-1-4

HB-1-5

HB-1-6



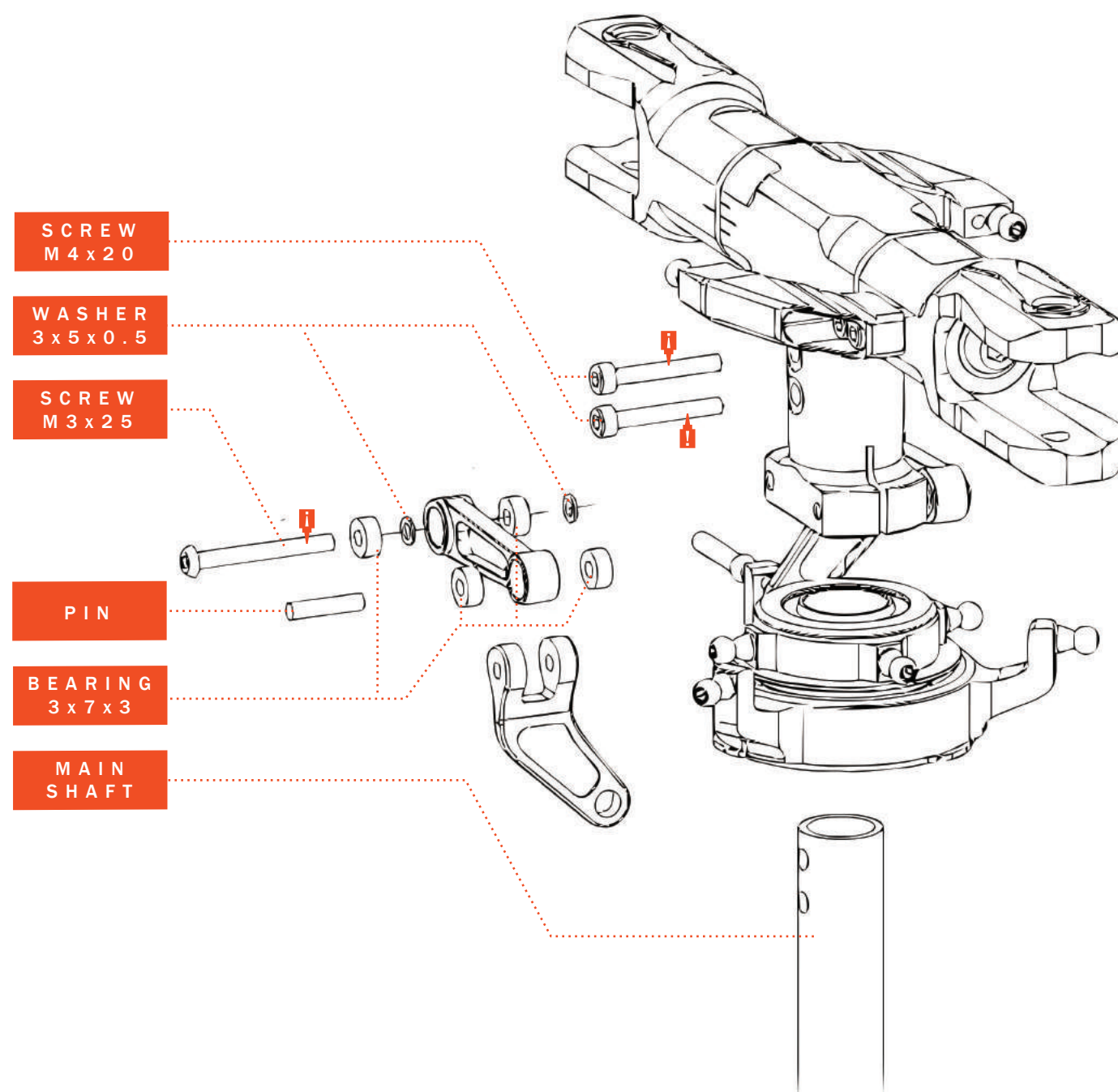
! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

HB - 1

HB - 2

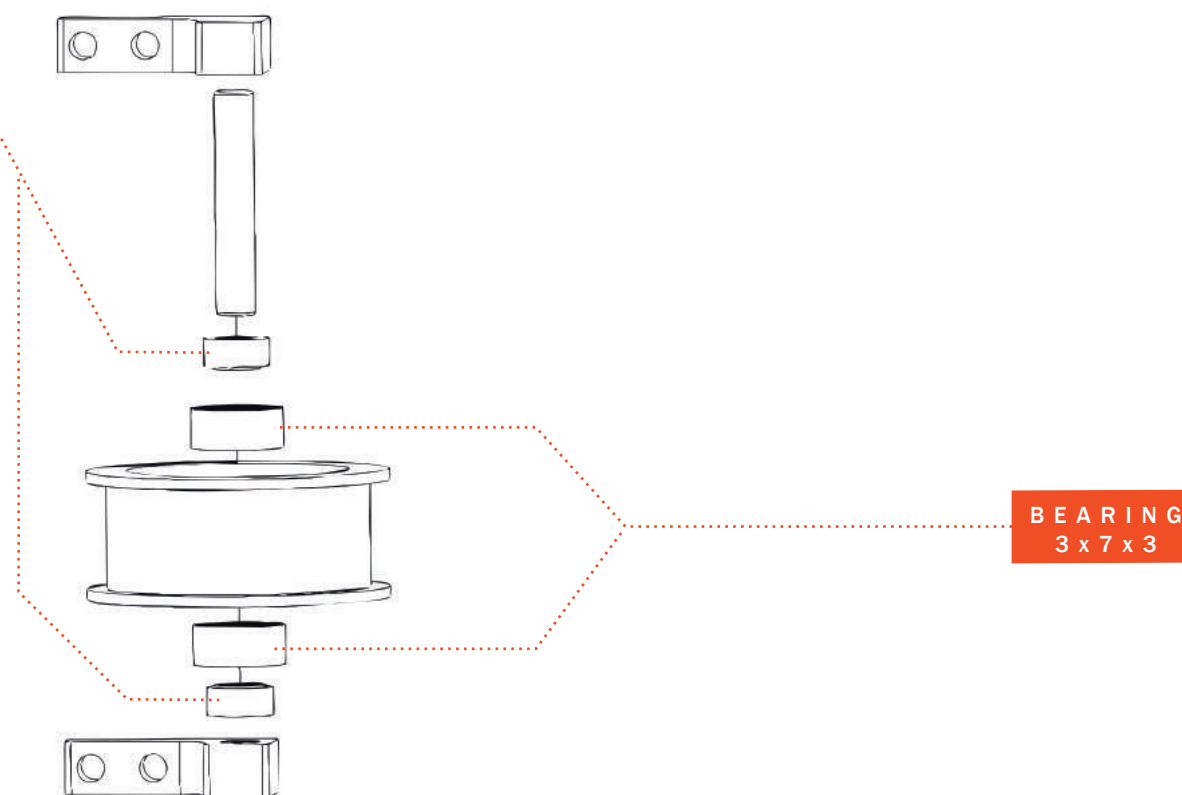
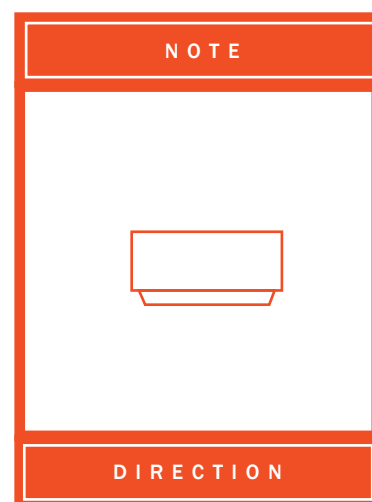


! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
■ FIXING A METAL PART



**BAGS:**

BB - 1





! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

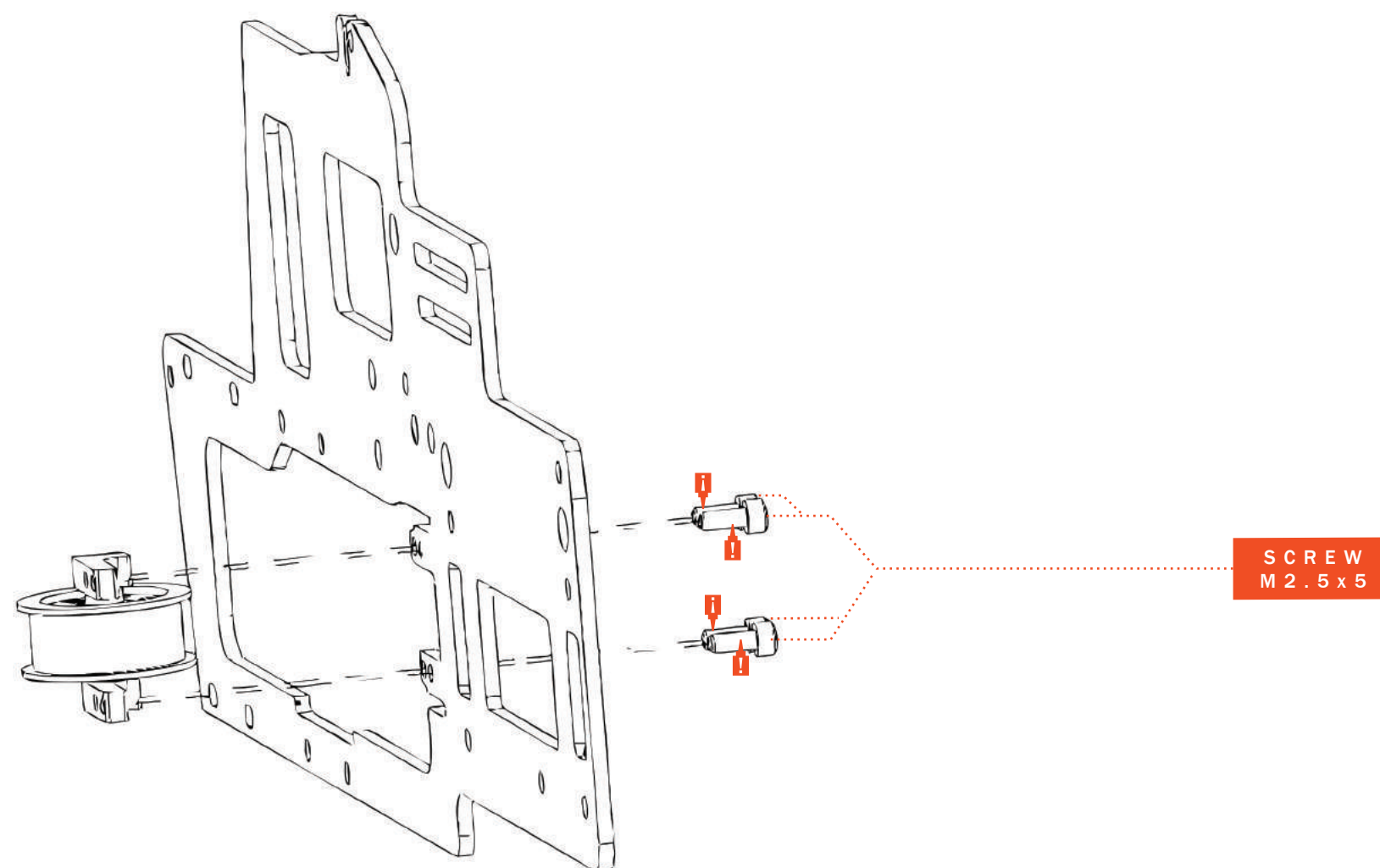


**BAGS:**

BB - 1

BB - 2

BB - 1 - 1



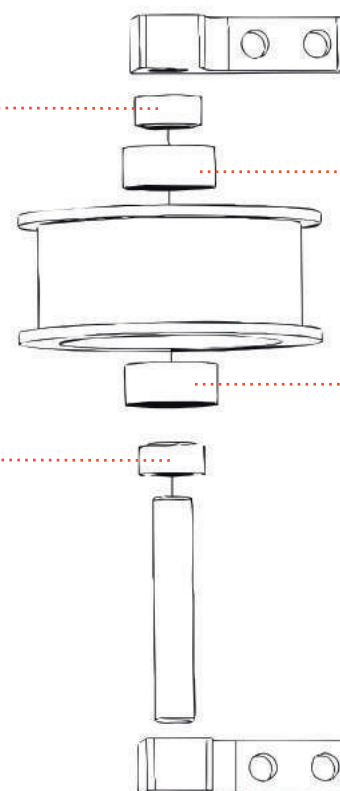
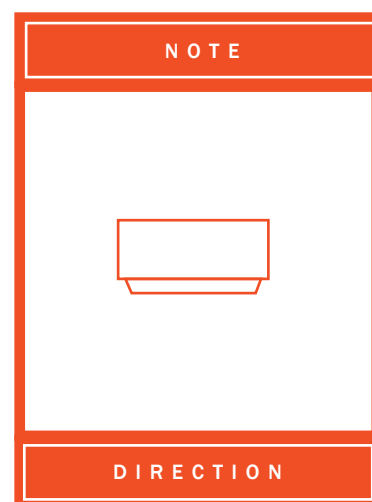
RIGHT SIDE  
OF THE FRAME

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB - 1



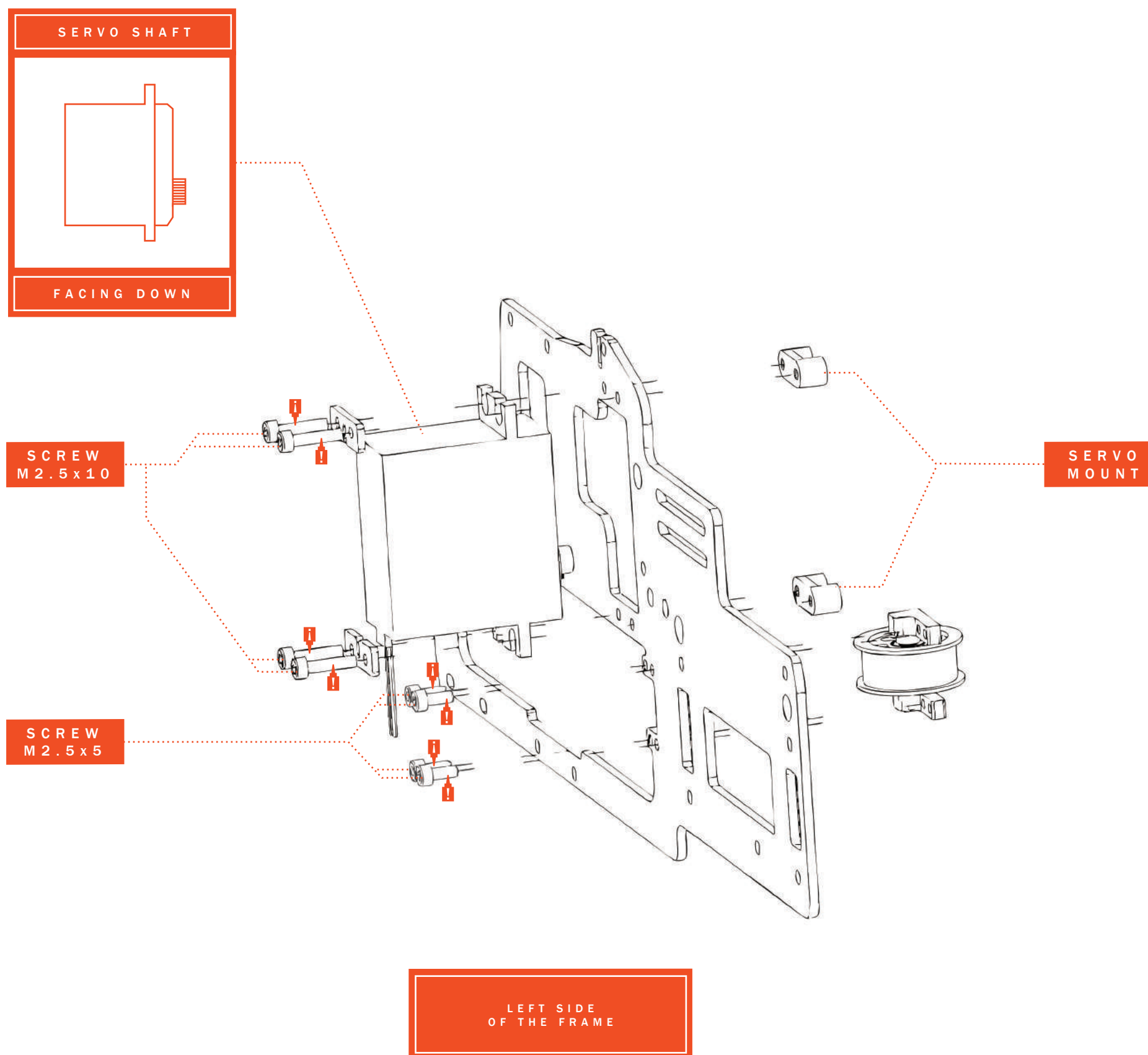
BEARING  
3 x 7 x 3

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
■ FIXING A METAL PART



**BAGS:**

BB - 1



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB - 1

BB - 2

BB - 1 - 3

BB - 1 - 4

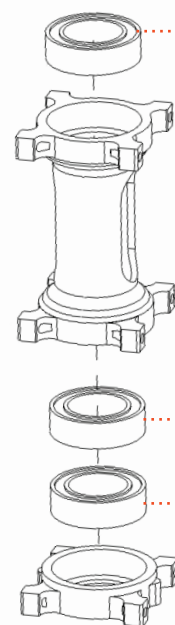
BB - 1 - 5

BB - 1 - 6

BB - 1 - 7

BB - 1 - 8

BB - 1 - 9



BEARING  
15 x 24 x 7

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB - 1

BB - 2

BB - 1 - 3

BB - 1 - 4

BB - 1 - 5

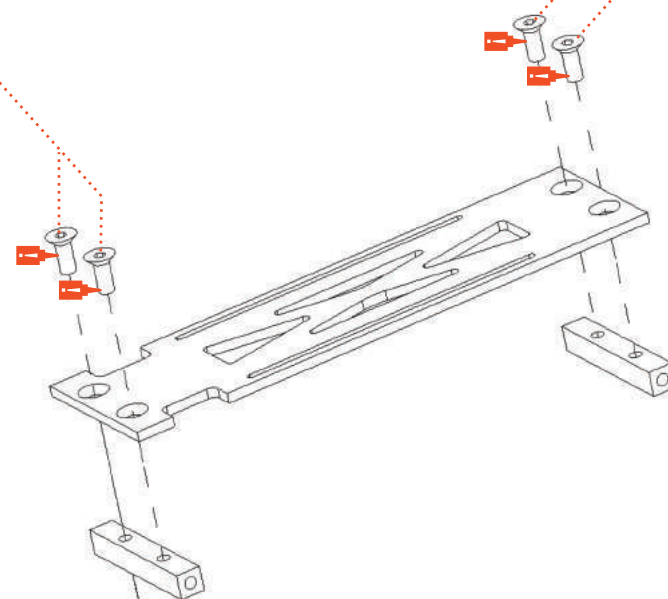
BB - 1 - 6

BB - 1 - 7

BB - 1 - 8

BB - 1 - 9

FLAT CAP SCREW  
M 3 x 6



FLAT CAP SCREW  
M 3 x 6





APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB - 1

BB - 2

BB - 1 - 3

BB - 1 - 4

BB - 1 - 5

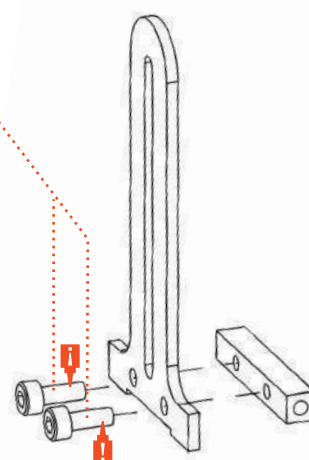
BB - 1 - 6

BB - 1 - 7

BB - 1 - 8

BB - 1 - 9

SCREW  
M 3 x 6



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB - 1

BB - 2

BB - 1 - 3

BB - 1 - 4

BB - 1 - 5

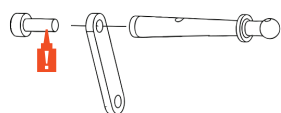
BB - 1 - 6

BB - 1 - 7

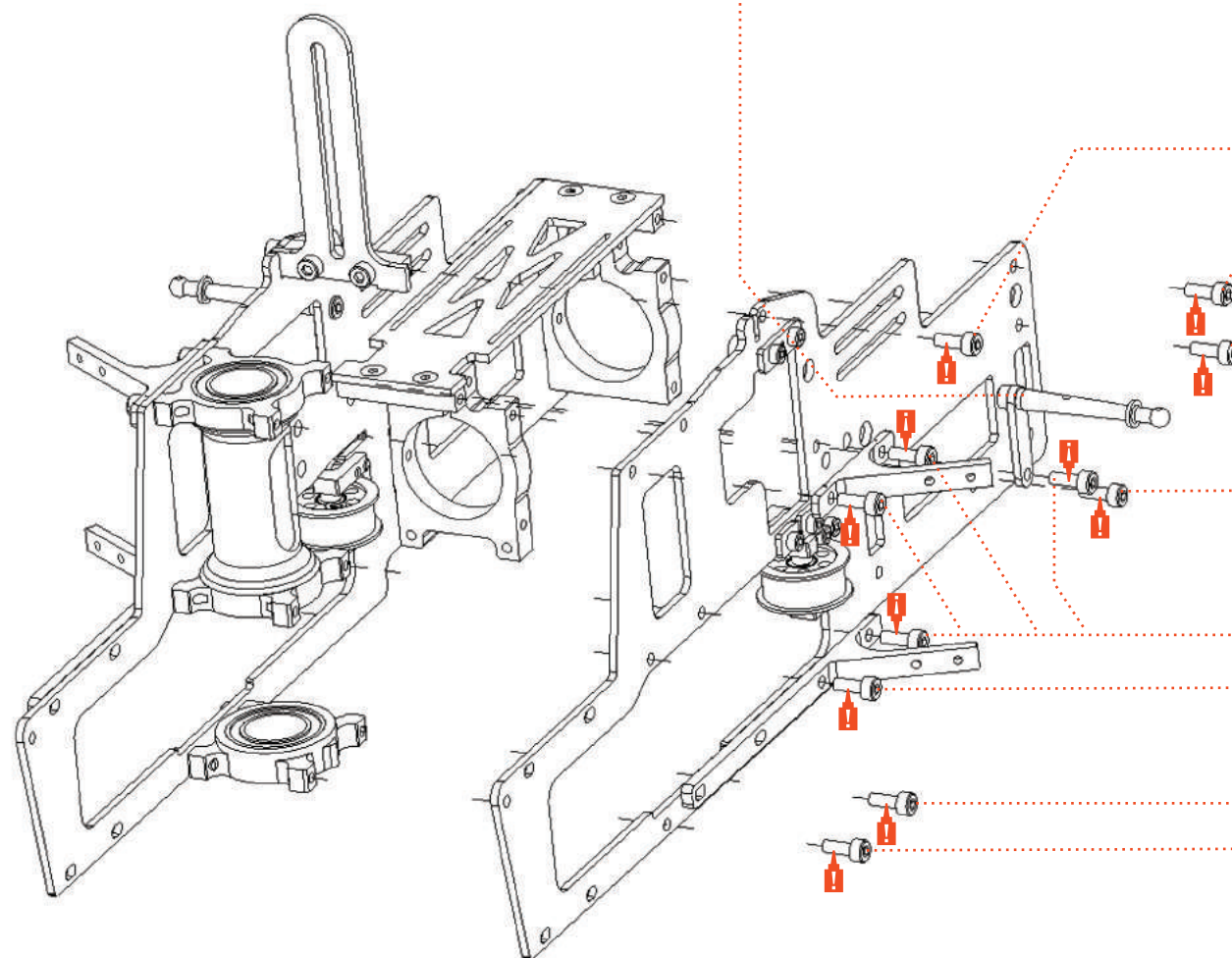
BB - 1 - 8

BB - 1 - 9

CANOPY MOUNT



POST



SCREW  
M 3 x 6

SCREW  
M 3 x 8

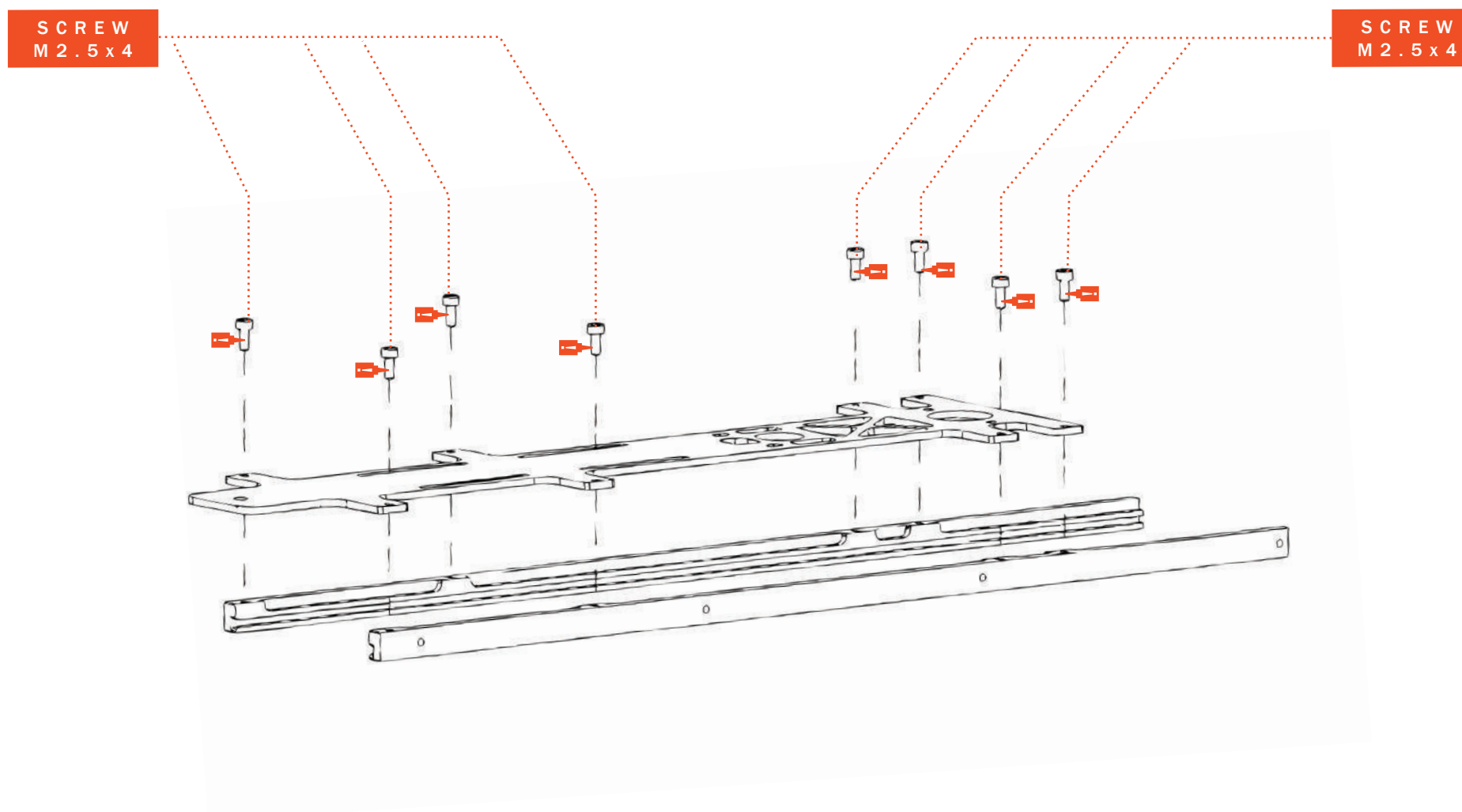
SCREW  
M 3 x 6

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-3



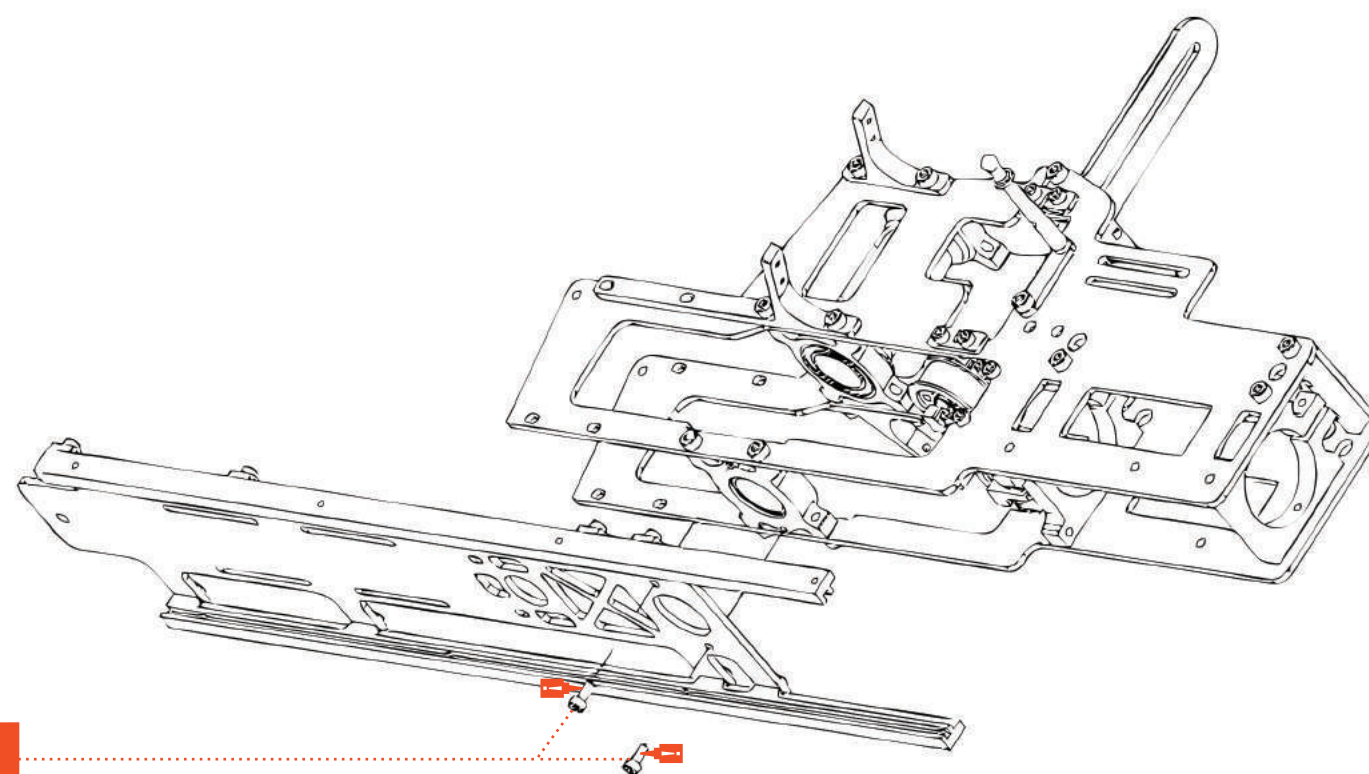
GENTLY LOCK THE SCREWS  
AVOID SLIPPING SCREWS

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-3



SCREW  
M2.5x5

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

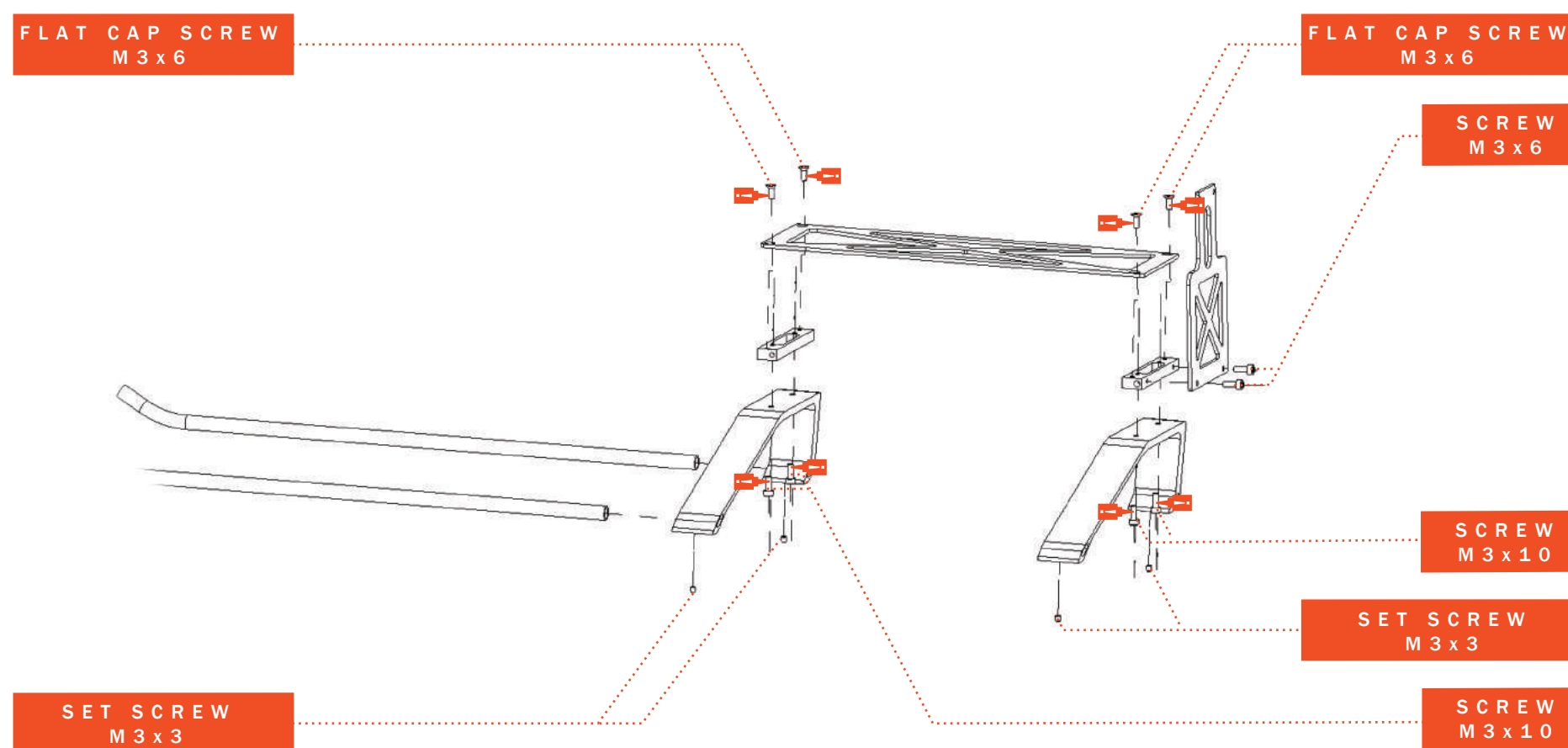


**BAGS:**

BB - 4

BB - 5

BB - 1 - 10





! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

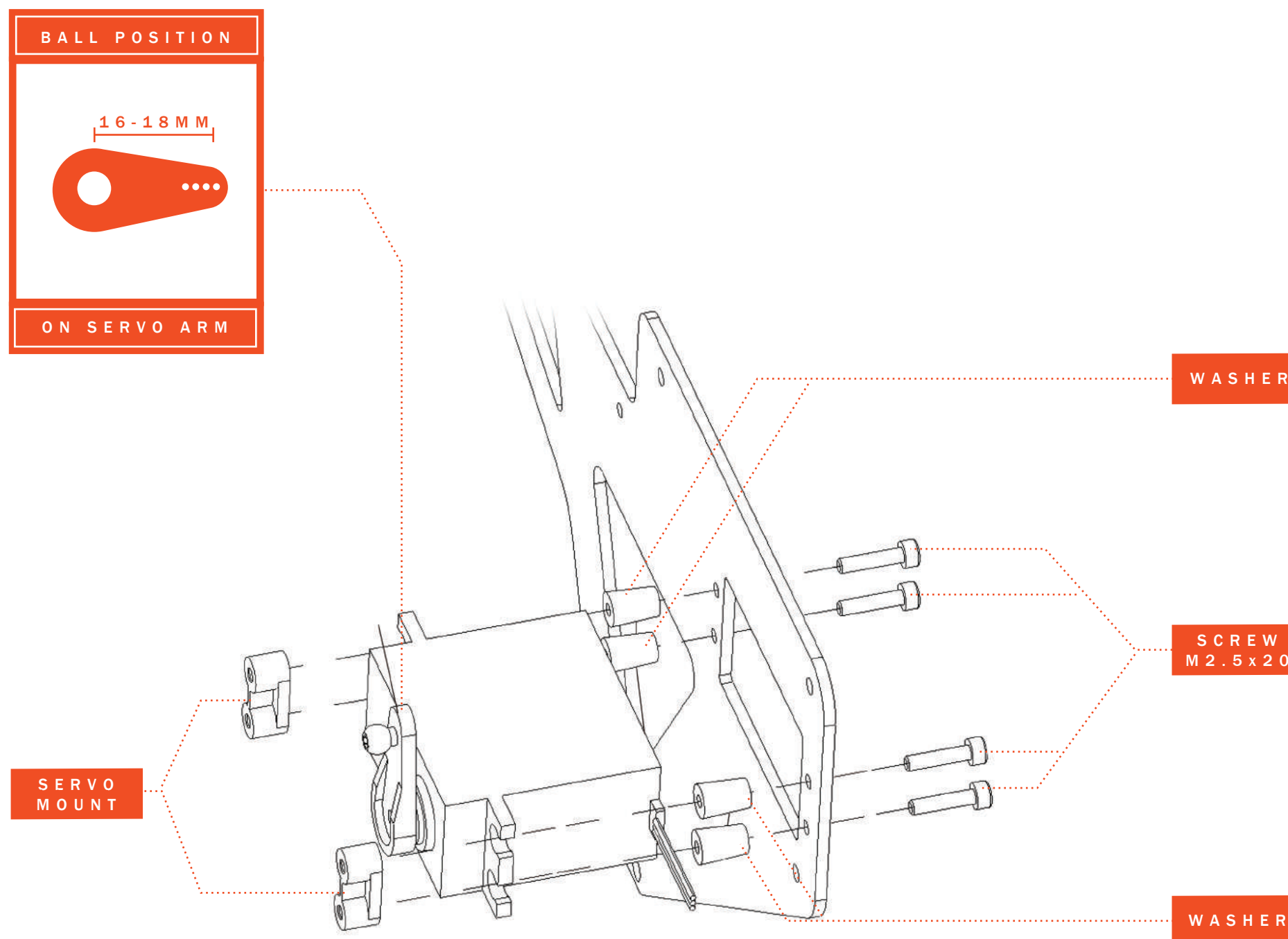


**BAGS:**

BB-4

BB-5

BB-1-10



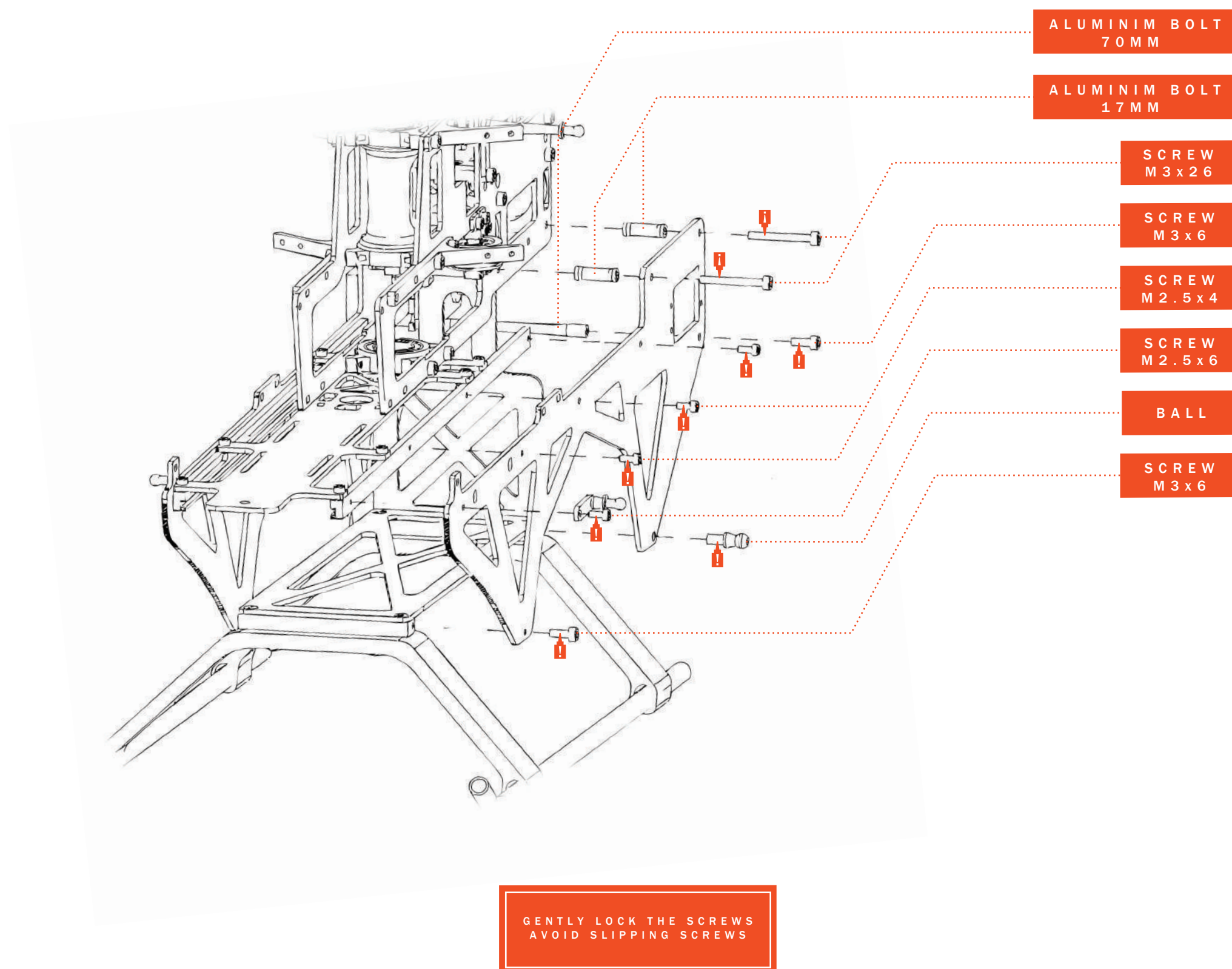
! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-5

BB-1-11



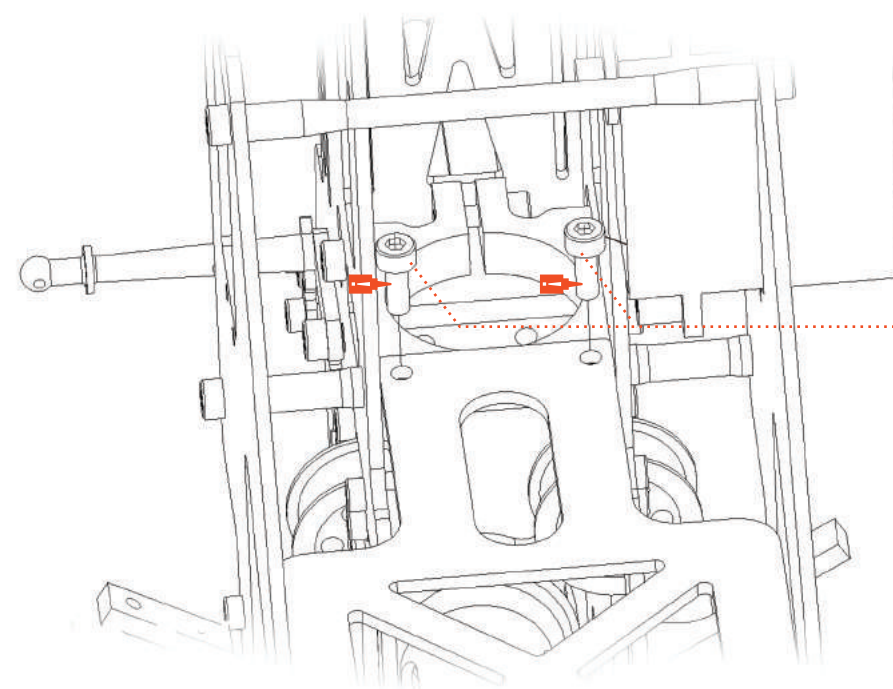
! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-5

BB-1-11



SCREW  
M3x6

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

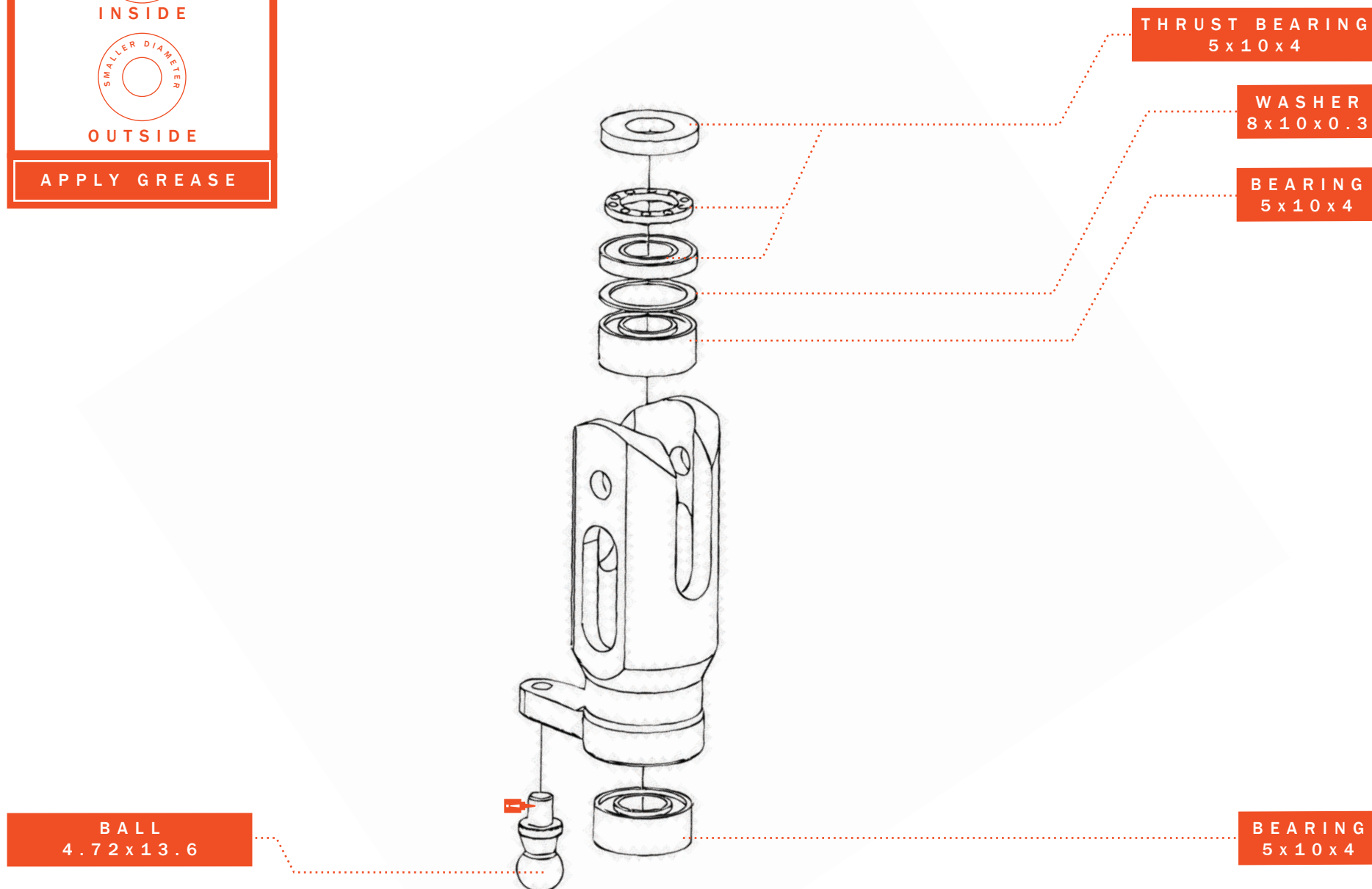
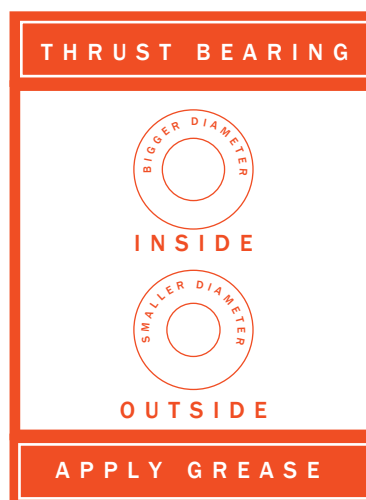


**BAGS:**

TB-1

TB-1-1

TB-1-10



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

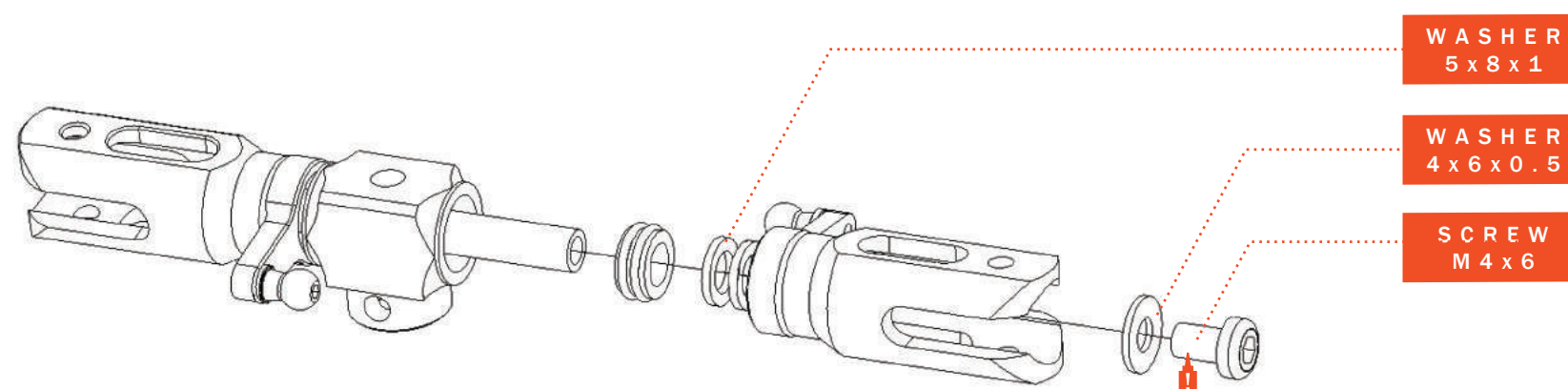


**BAGS:**

TB-1

TB-1-1

TB-1-10



THE BLADE GRIPS MUST MOVE FREELY  
BUT THEY SHOULD NOT MOVE JUST  
FROM THEIR OWN WEIGHT

ADD MORE 0.1MM SHIMS  
IF PRELOAD CHANGED  
HB-1-6



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

TB-1

TB-2

TB-3

TB-1-2

TB-1-3

TB-1-4

ADD EXTRA WASHER  
TO REMOVE ANY PLAY  
(WASHERS ARE IN THE BACKUP BAG)

WASHER  
6x9x0.1

O-RING

TAIL SHAFT  
NOTE DIRECTION

SET SCREW  
M4x4

SCREW  
M3x6

SCREW  
M2.5x6

SCREW  
M3x26

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

TB-1

TB-2

TB-3

TB-1-2

TB-1-3

TB-1-4

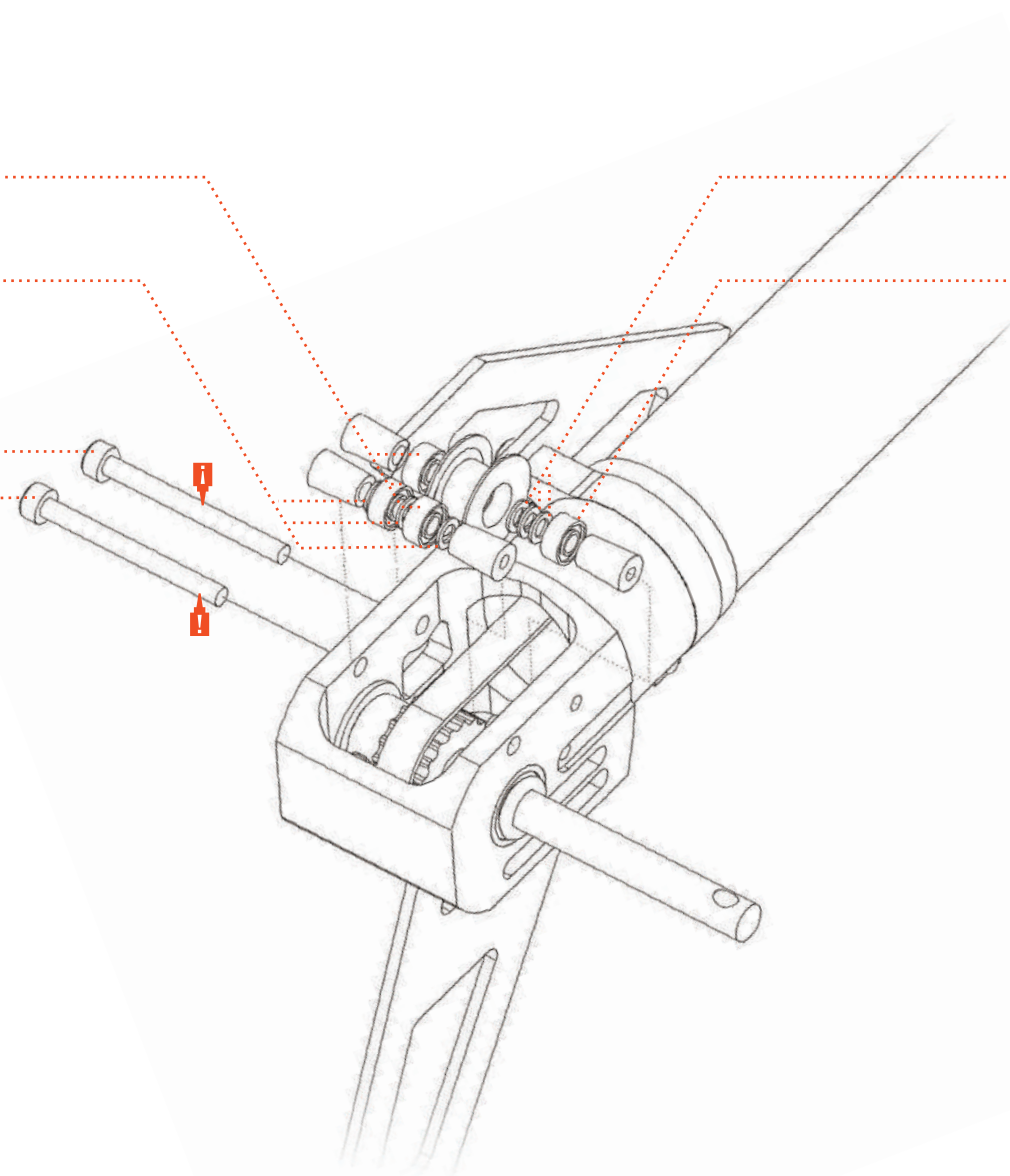
BEARING  
3 x 7 x 3

WASHER  
3 x 5 x 0.5

SCREW  
M 3 x 3.2

WASHER  
3 x 5 x 0.5

BEARING  
3 x 7 x 3



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



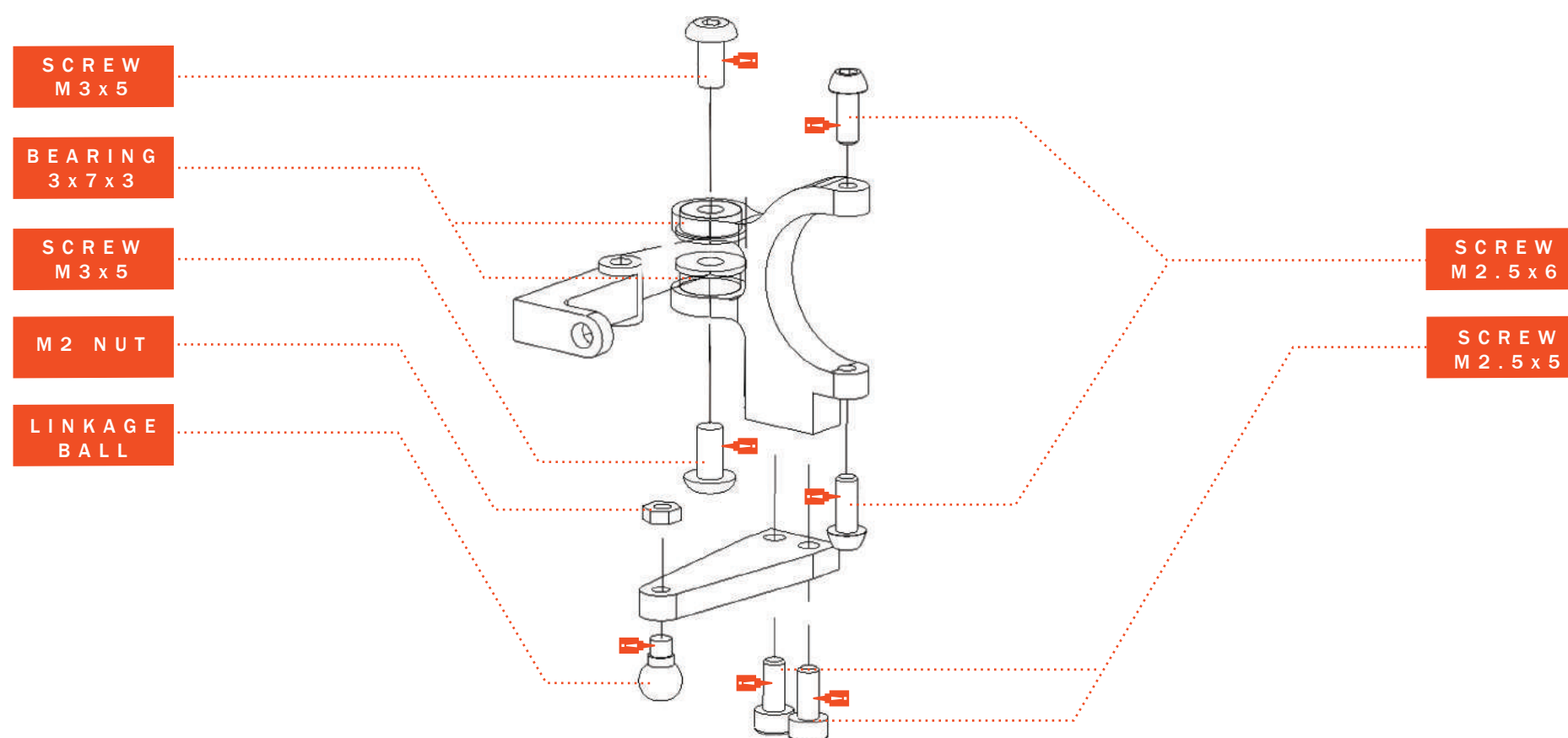
**BAGS:**

TB-1

TB-1-5

TB-1-6

TB-1-7



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

TB-1

TB-1-5

TB-1-6

TB-1-7

NOTE

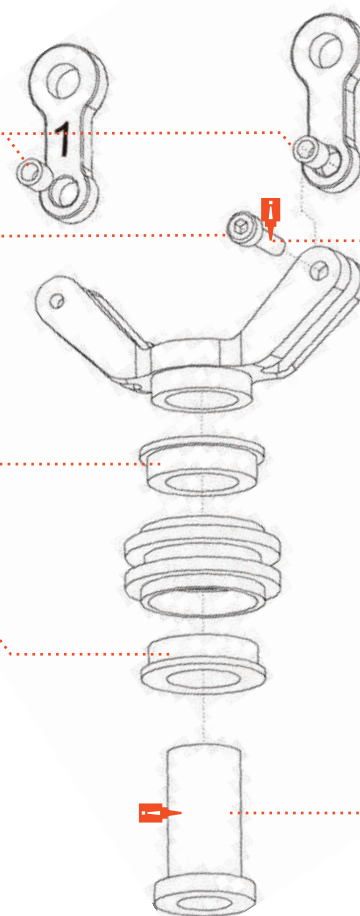


DIRECTION

SPACER  
3 x 2 x 3

SCREW  
M 2 x 8

BEARING  
8 x 12 x 3.5



DO NOT OVER TIGHTEN  
KEEP PARTS MOVING SMOOTHLY  
USE LOCTITE638

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



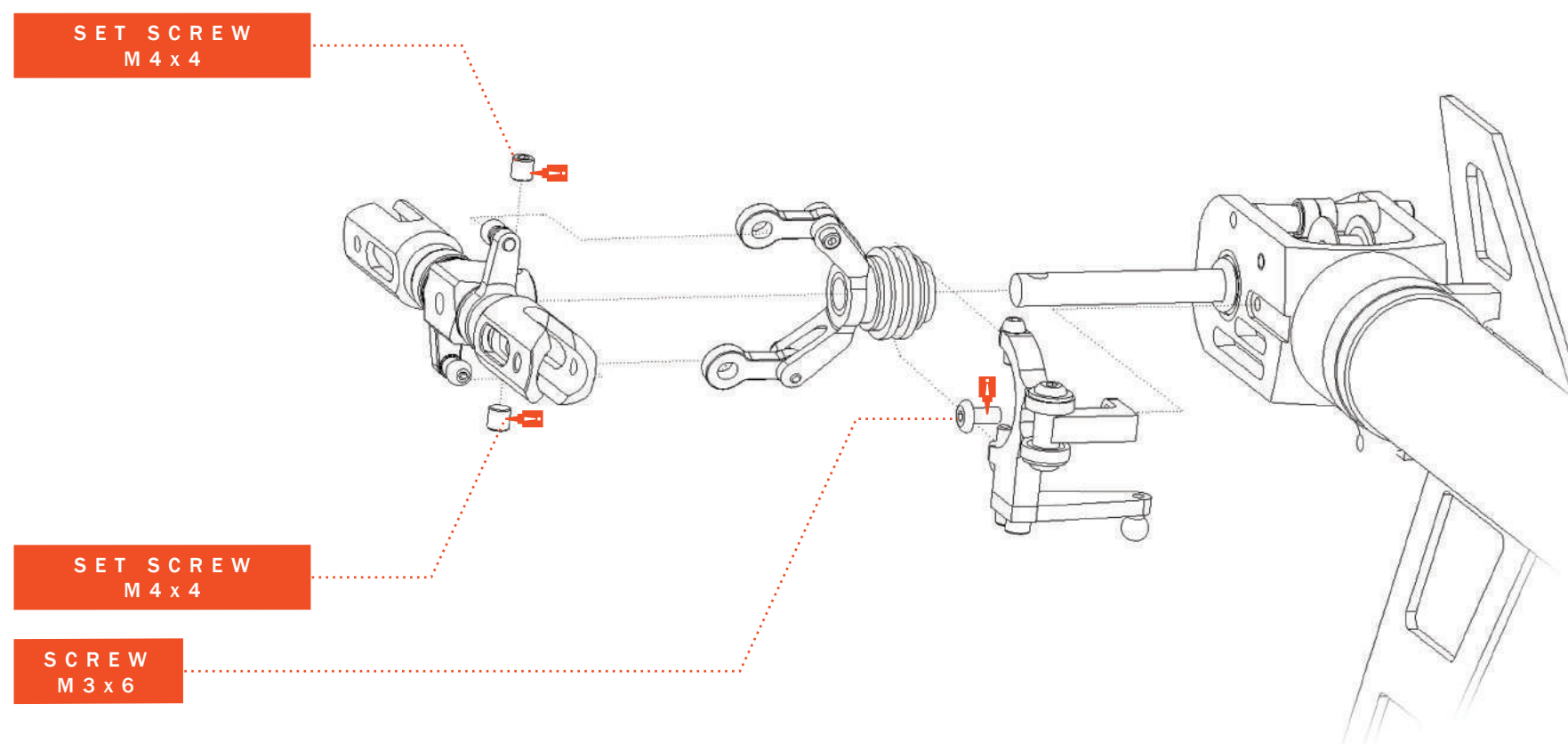
**BAGS:**

TB-1

TB-1-5

TB-1-6

TB-1-7





! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



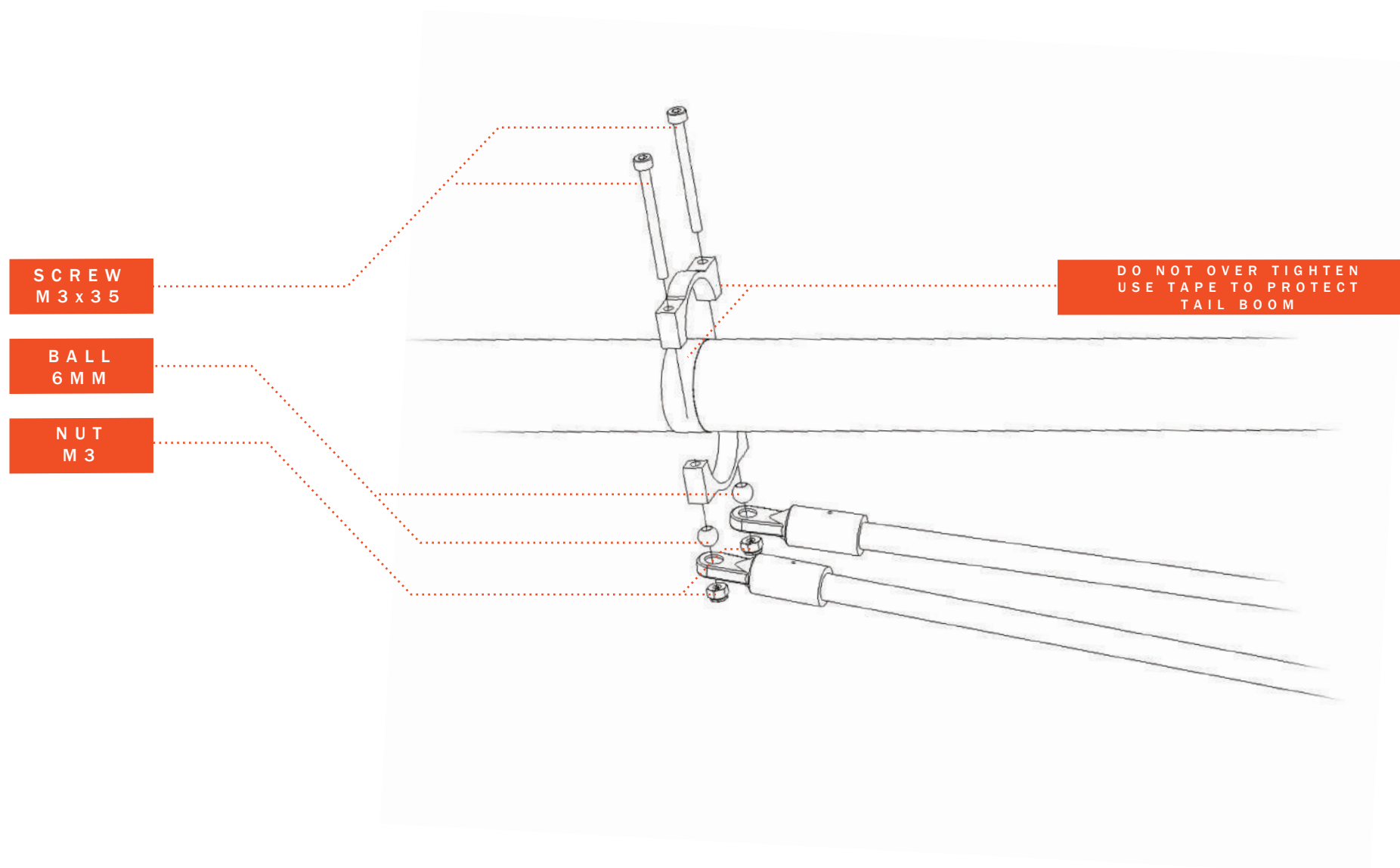
**BAGS:**

TB-1

TB-2

TB-1-8

TB-1-9



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

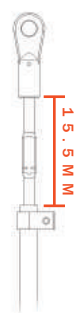
T B - 1

T B - 2

T B - 1 - 8

T B - 1 - 9

SET

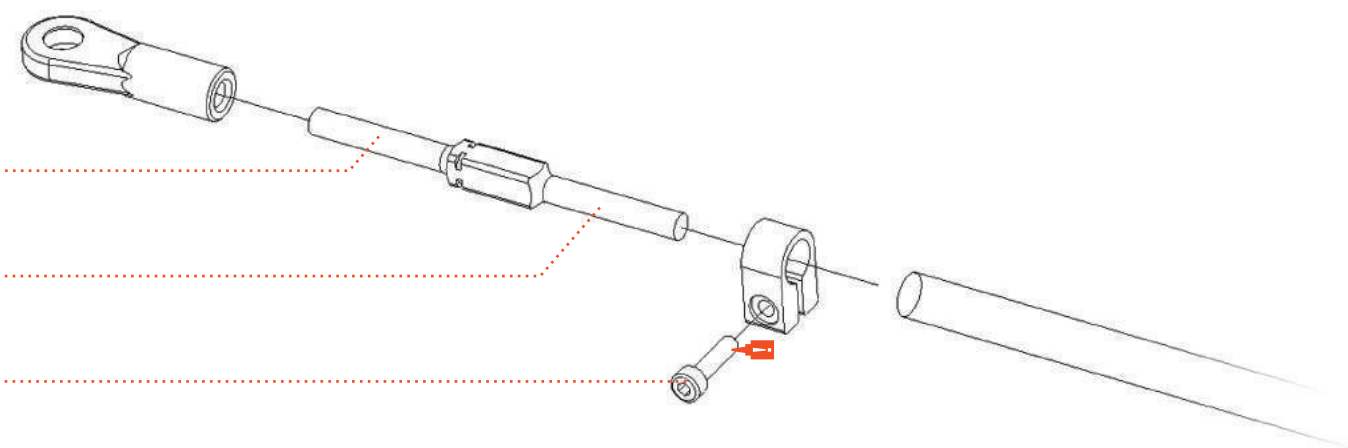


DISTANCE

LEFT  
THREAD

RIGHT  
THREAD

SCREW  
M 2 x 6



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

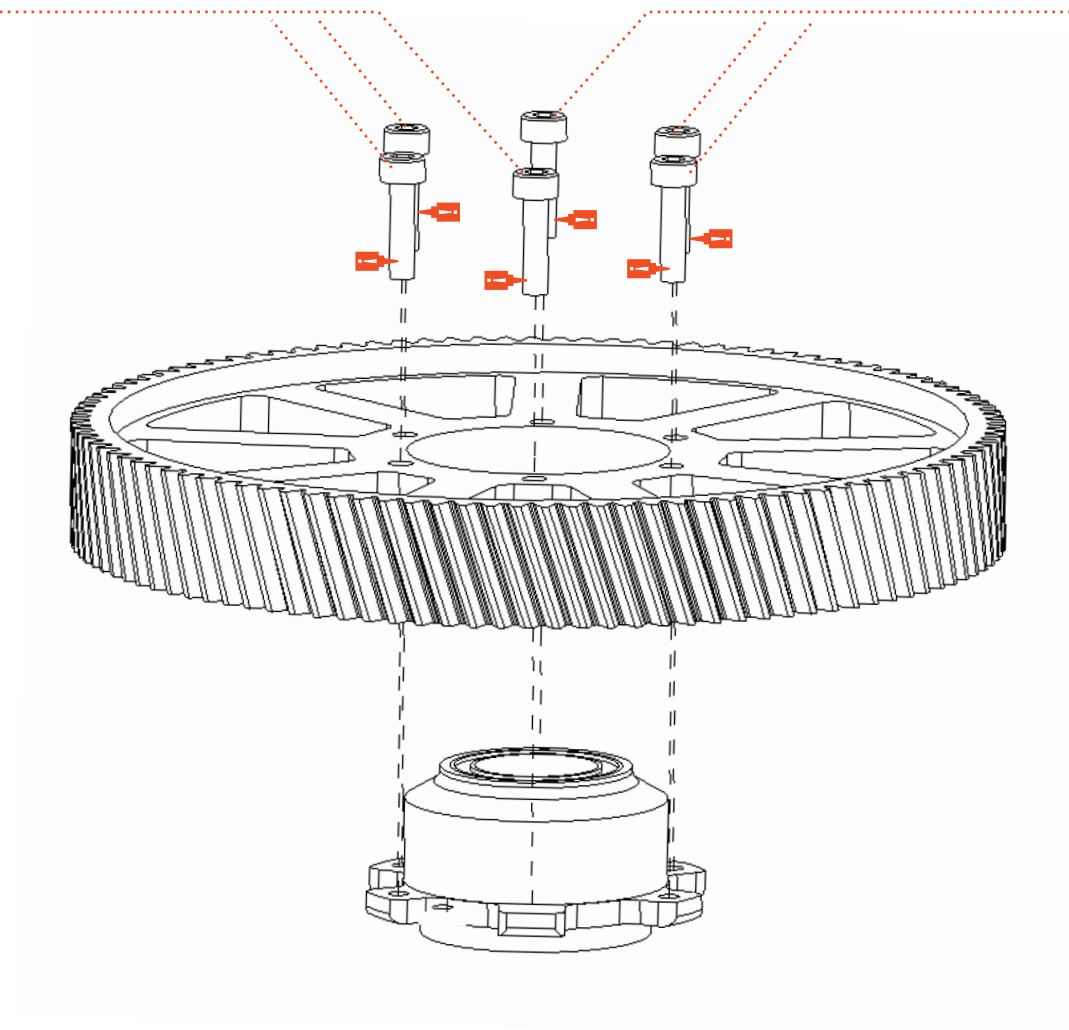


**BAGS:**

BB-6

SCREW  
M 3 x 12

SCREW  
M 3 x 12



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

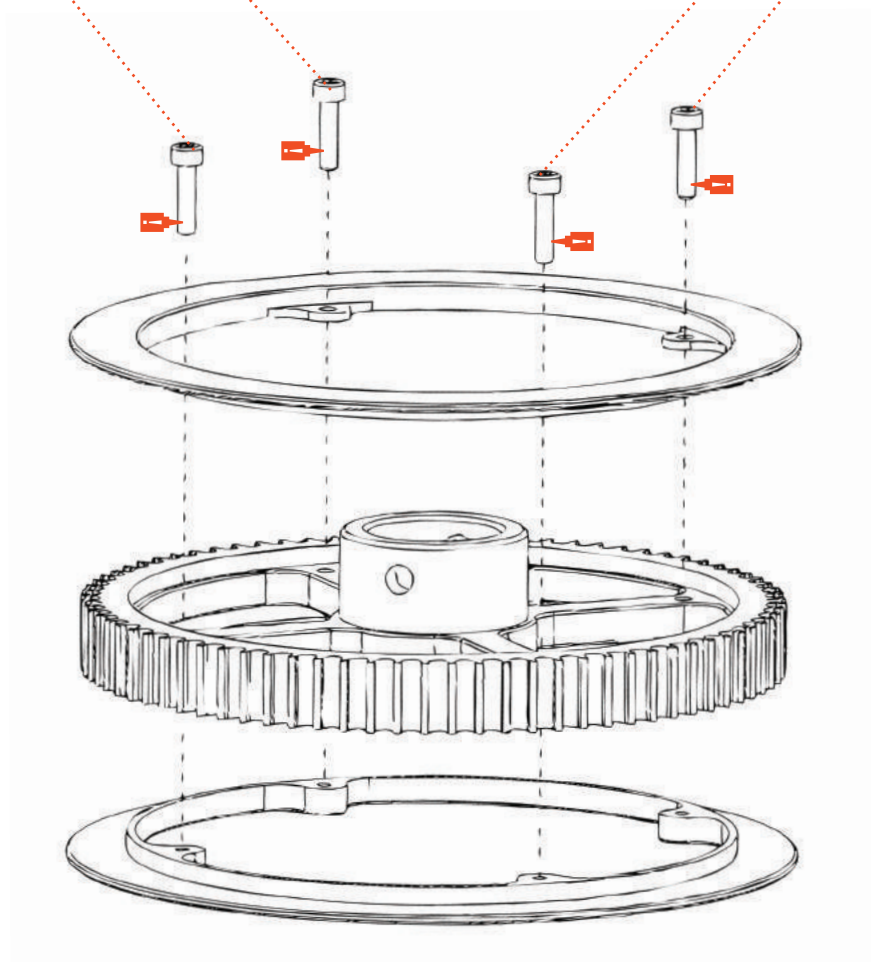


**BAGS:**

BB-6

SCREW  
M 2 x 8

SCREW  
M 2 x 8



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
■ FIXING A METAL PART



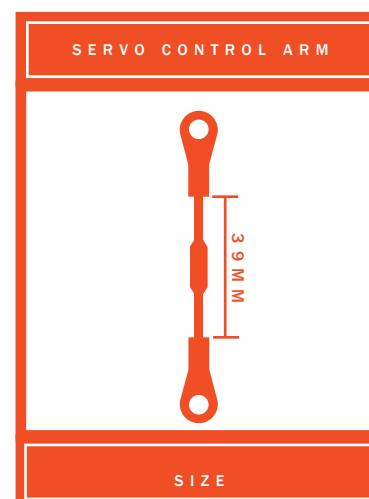
**BAGS:**

HB - 1

HB - 2

BB - 6

HB - 1 - 3



SCREW  
M 3 x 10

SCREW  
M 3 x 6

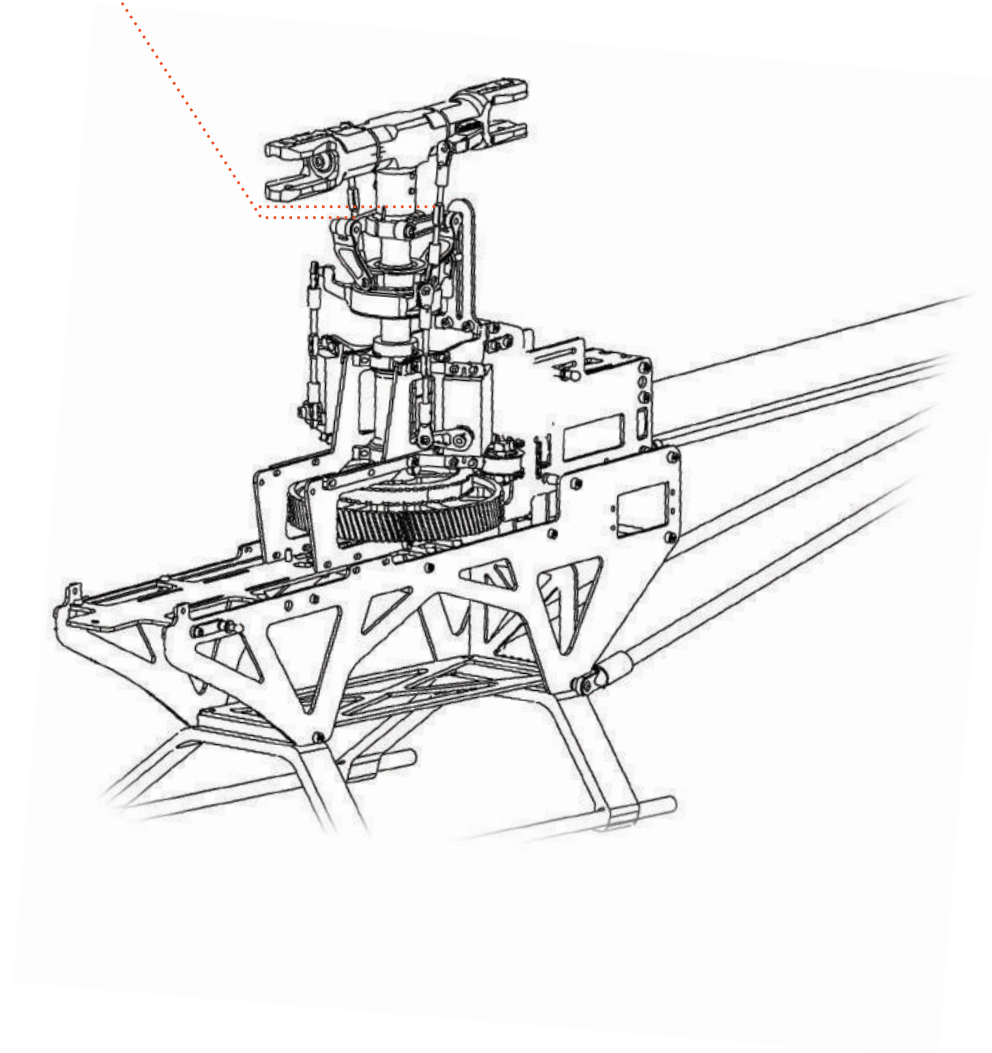
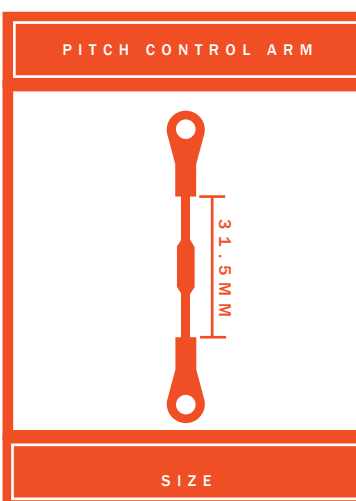
NUT  
M 4

WASHER  
15 x 21 x 1

SET SCREW  
M 4 x 4

SCREW  
M 4 x 25

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
■ FIXING A METAL PART



**BAGS:**

HB - 1

HB - 2

BB - 6

HB - 1 - 3



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

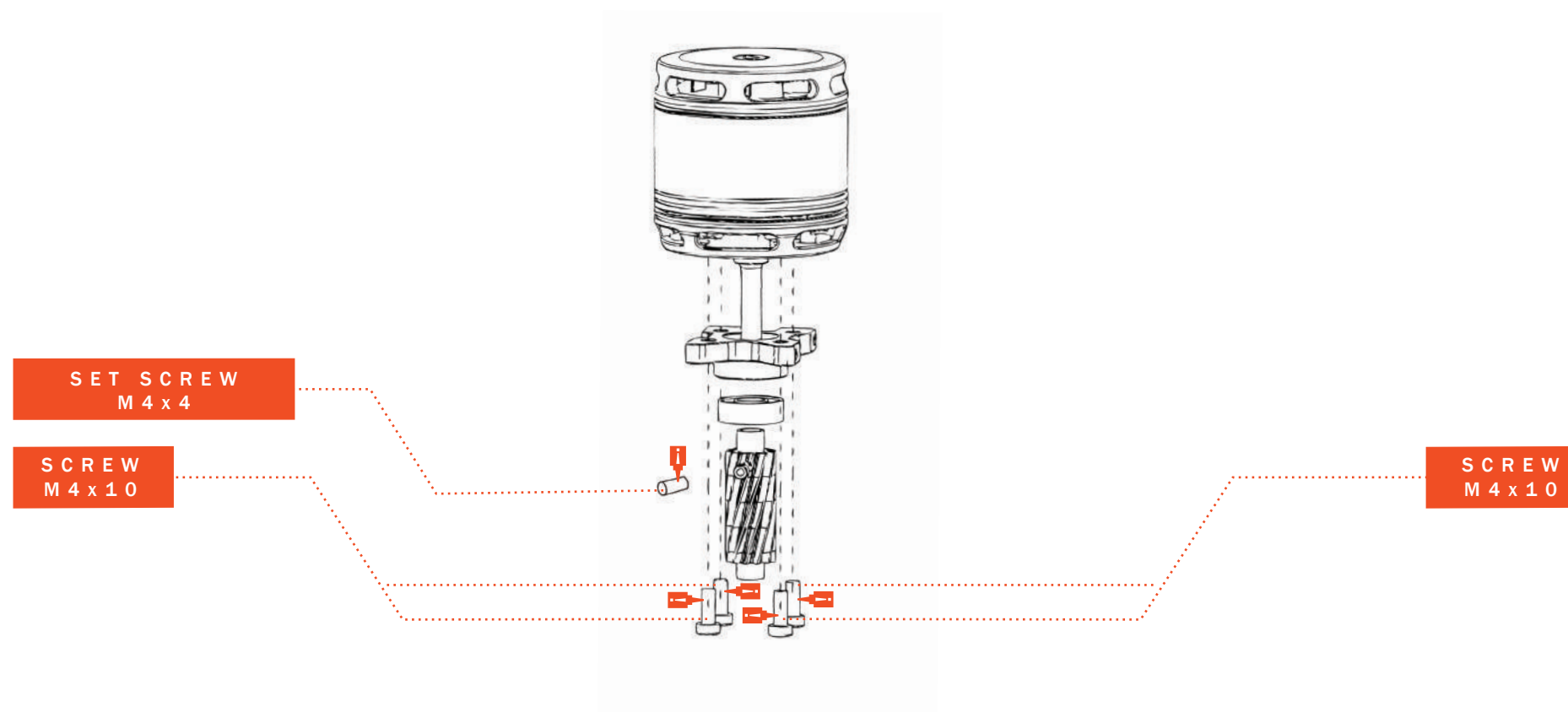


**BAGS:**

BB - 1

BB - 1 - 1 2

BB - 1 - 1 3



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

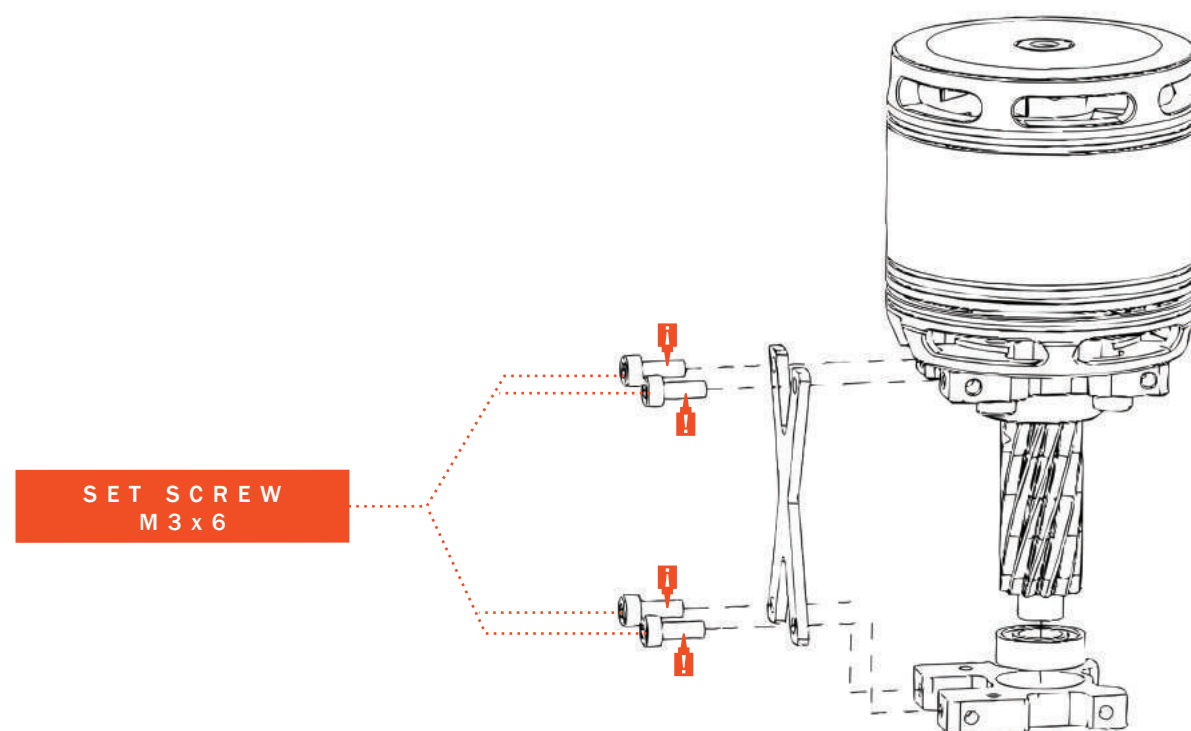


**BAGS:**

BB-1

BB-1-12

BB-1-13



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



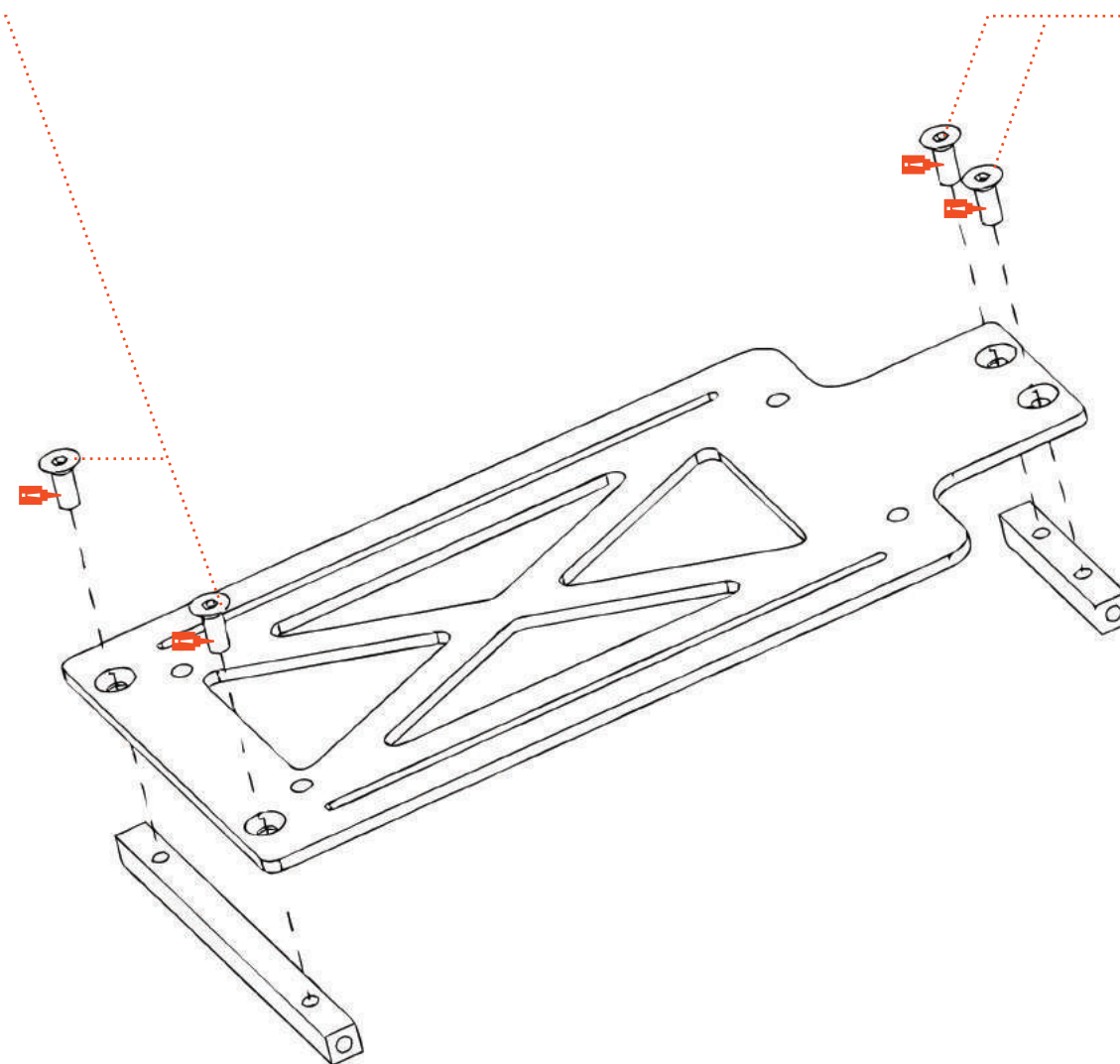
**BAGS:**

BB - 1

BB - 1 - 1 2

BB - 1 - 1 3

FLAT CAP SCREW  
M 3 x 6



FLAT CAP SCREW  
M 3 x 6

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

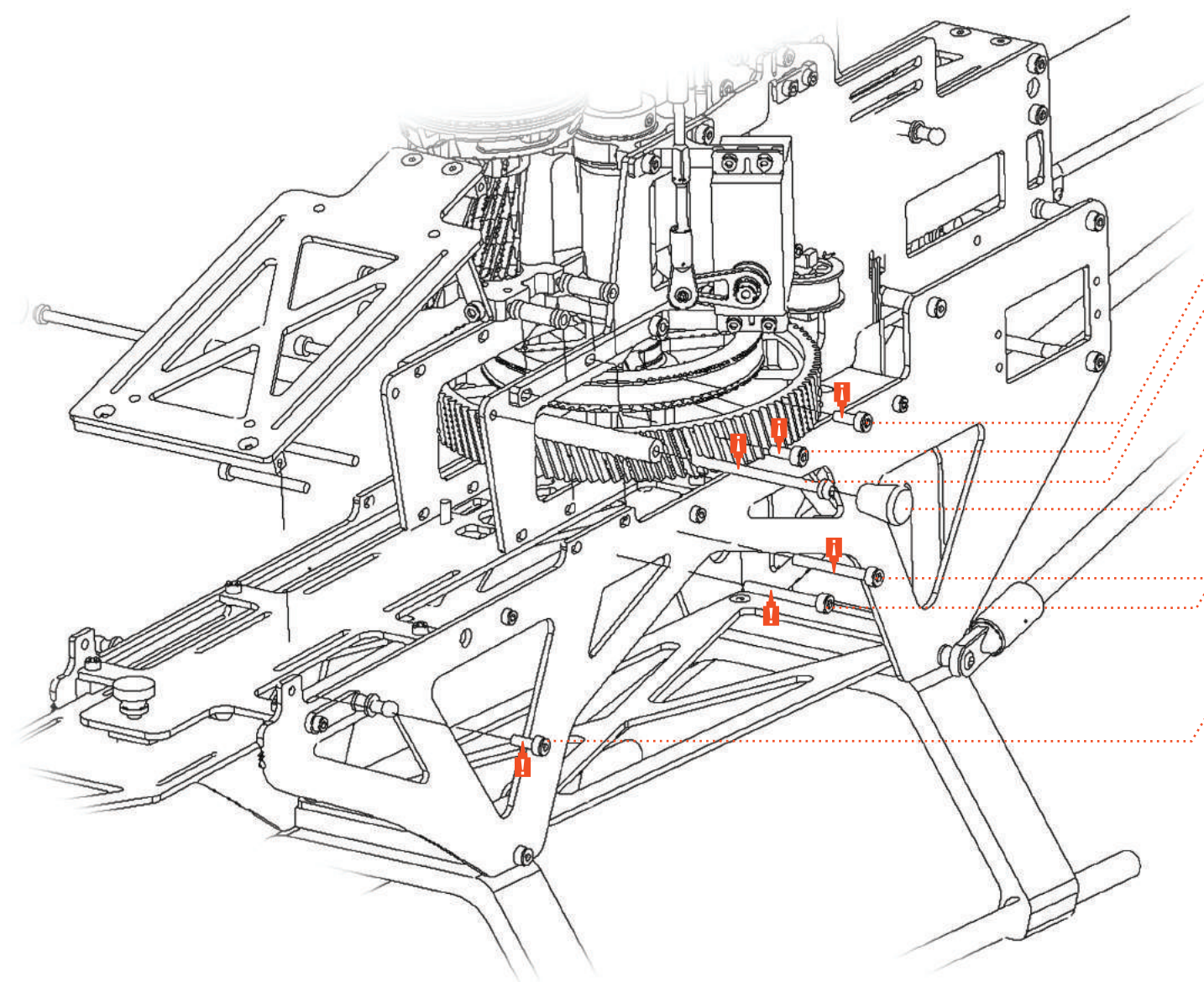


**BAGS:**

BB - 1

BB - 1 - 12

BB - 1 - 13



SCREW  
M3 x 10

SCREW  
M3 x 45

RUBBER  
TUBE

SCREW  
M3 x 25

SCREW  
M3 x 6

! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART

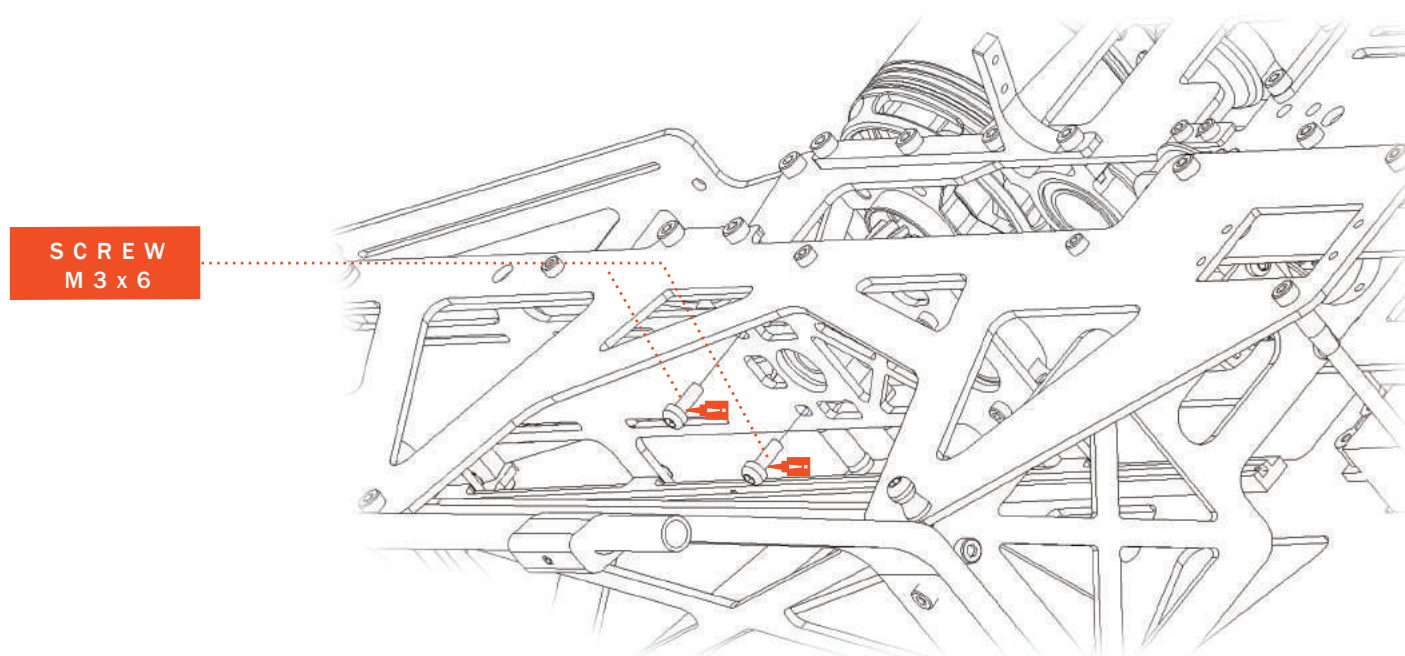


**BAGS:**

BB - 1

BB - 1 - 1 2

BB - 1 - 1 3



SET THE DISTANCE BETWEEN THE  
MOTOR PINION AND MAIN GEAR  
TO APPROXIMATELY 0.1MM



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-4

TB-1

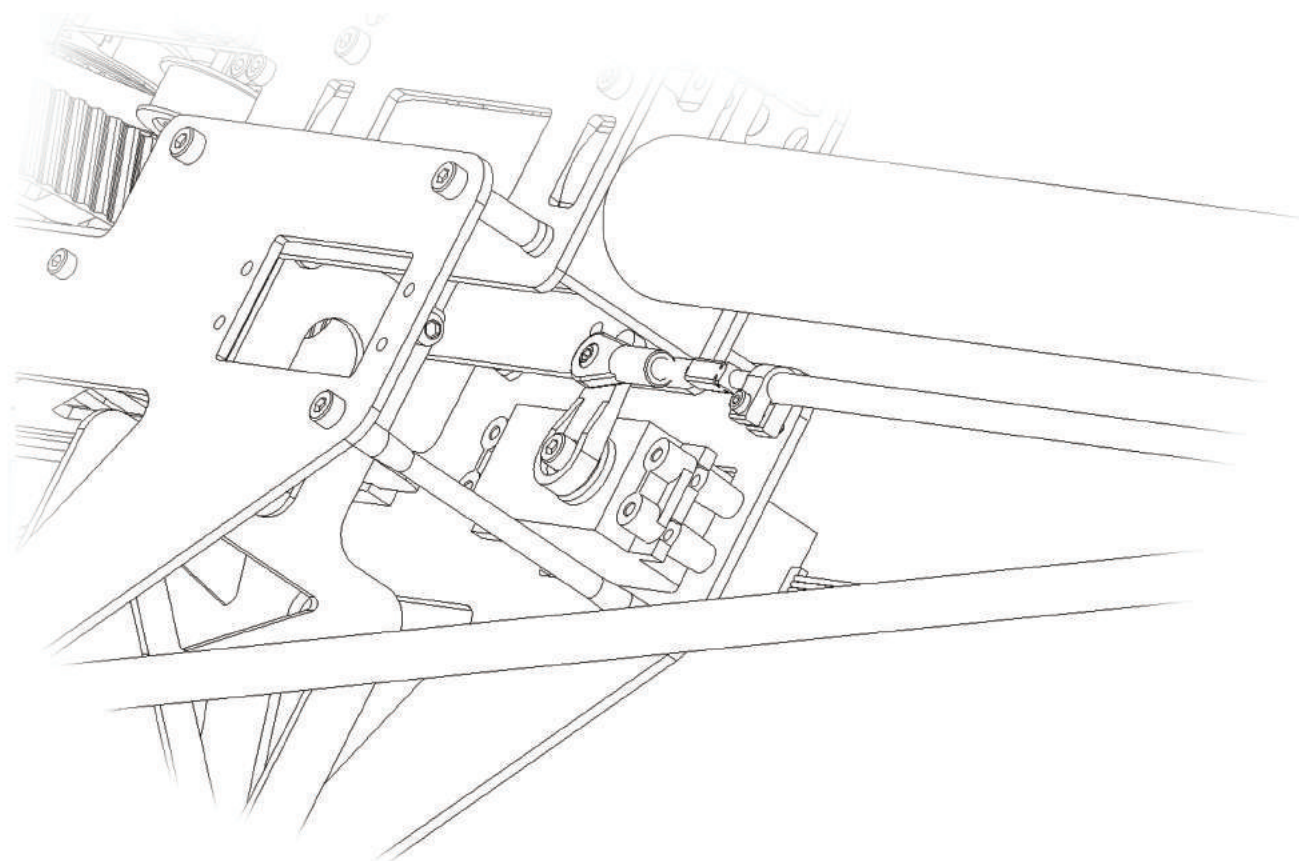
TB-1-9

BB-1-14

INSTALL



TAIL CONTROLL GUIDE



! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-4

TB-1

TB-1-9

BB-1-14

