



**SPECTER 7000**  
**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.

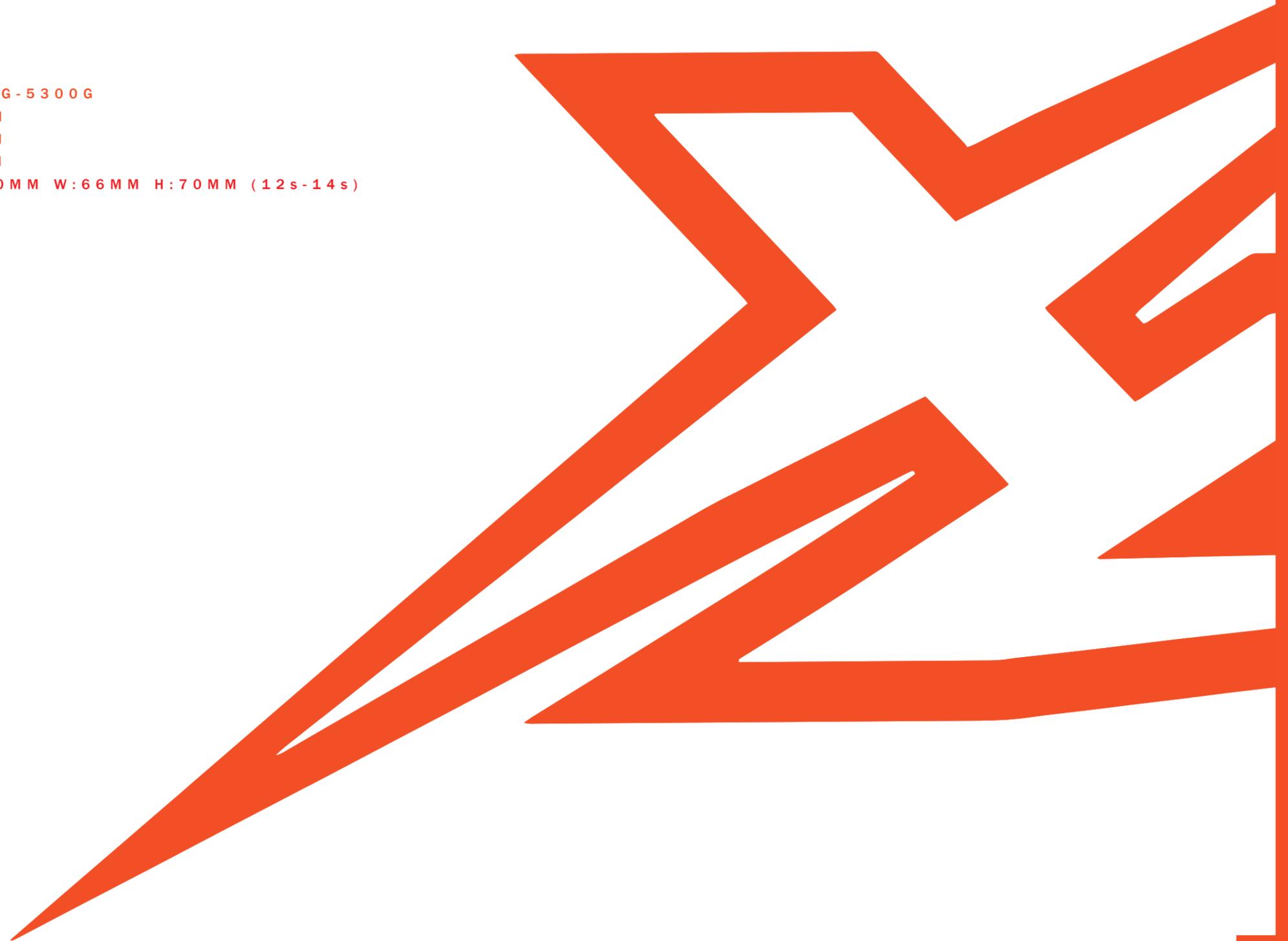
## ***SAFETY GUIDELINES:***

- \*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:	1300MM
WIDTH:	134MM
HEIGHT:	376MM
MAIN ROTOR BLADES:	685-716MM
TAIL ROTOR BLADES:	105-115MM
MOTOR PINION:	11T INCLUDED;10,12 OPTIONAL
MAIN GEAR:	106T
TAIL PINION:	17T
AUTOROTATION GEAR:	80T
MAIN TO TAIL GEAR RATIO:	4.7
RTF WEIGHT:	4900G-5300G
MAIN SHAFT DIAMETER:	15MM
FEATHERING SHAFT DIAMETER:	10MM
TAIL BOOM DIAMETER:	27MM
BATTERY TRAY SIZE:	L:350MM W:66MM H:70MM (12s-14s)



! 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

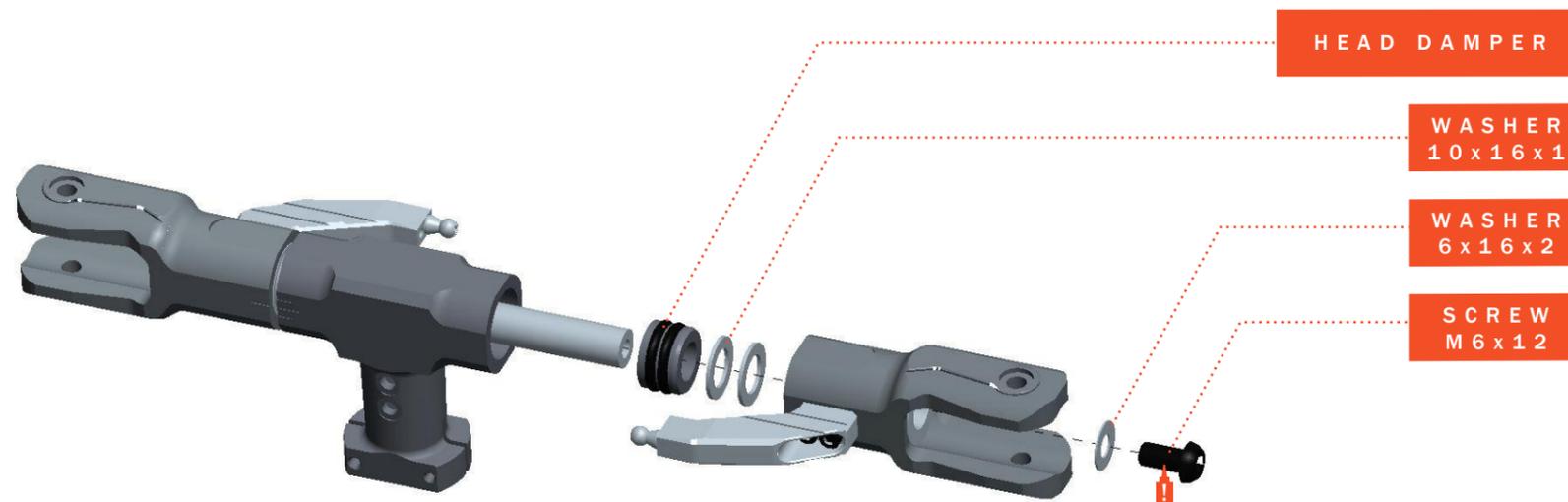
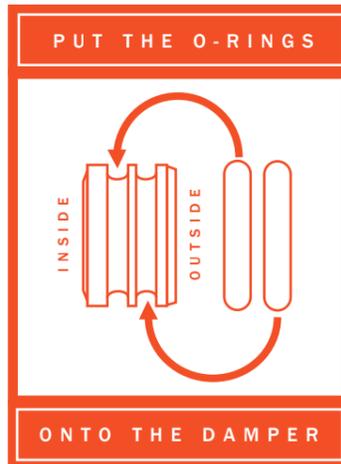
HB-1-1

HB-1-2

HB-1-4

HB-1-5

HB-1-6



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



**BASS:**

HB-1

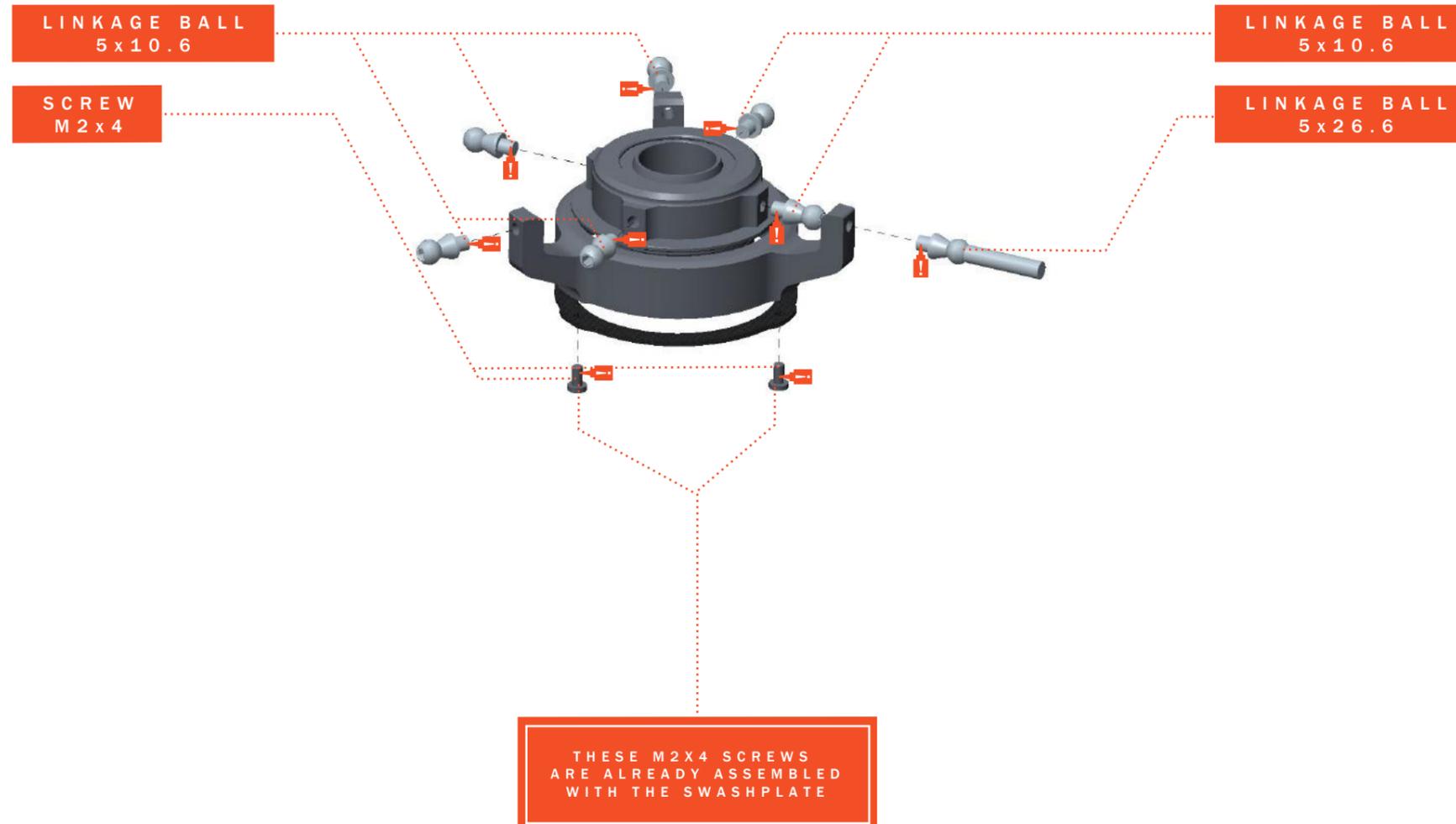
HB-1-1

HB-1-2

HB-1-4

HB-1-5

HB-1-6



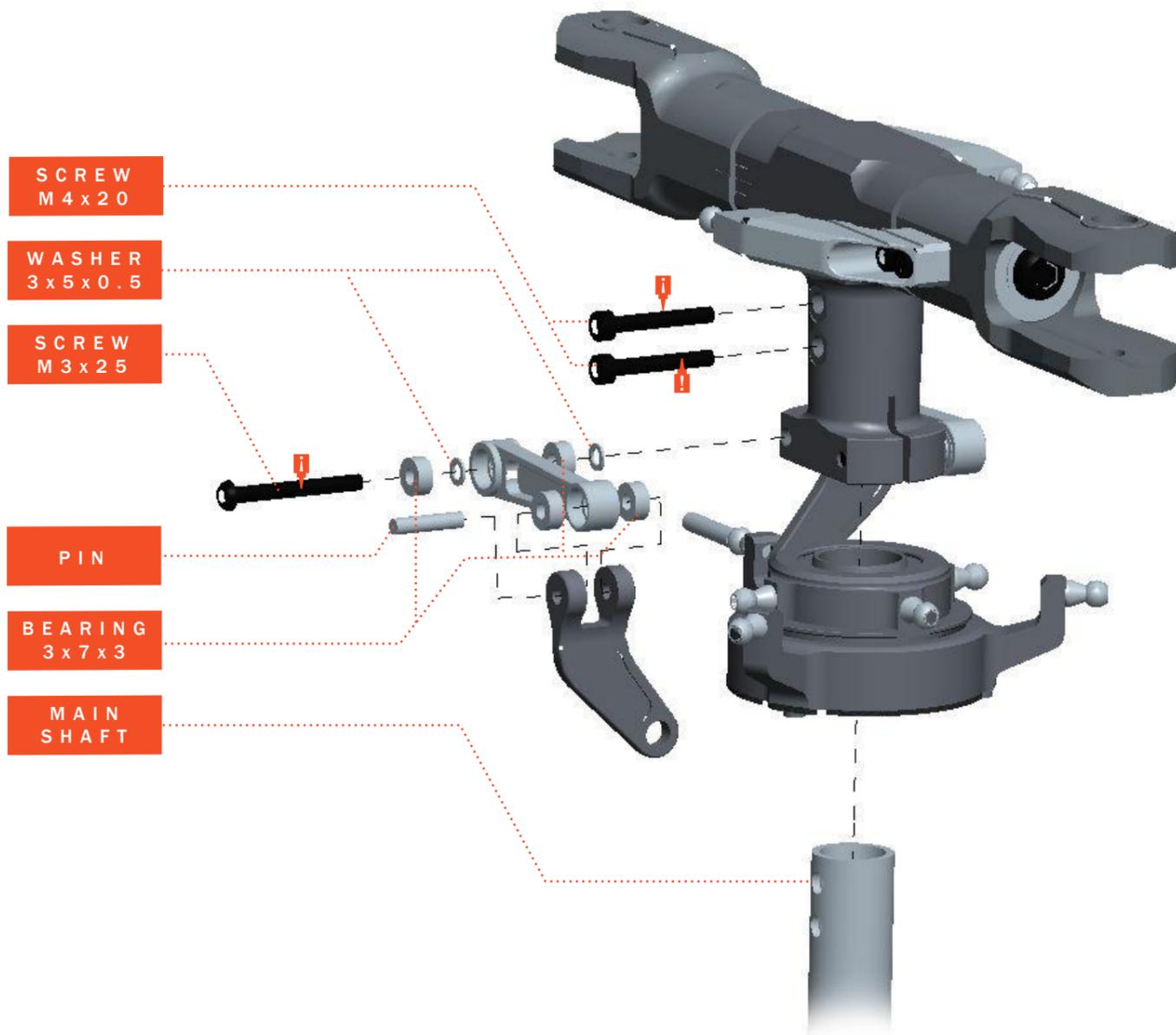
! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

HB-1

HB-2

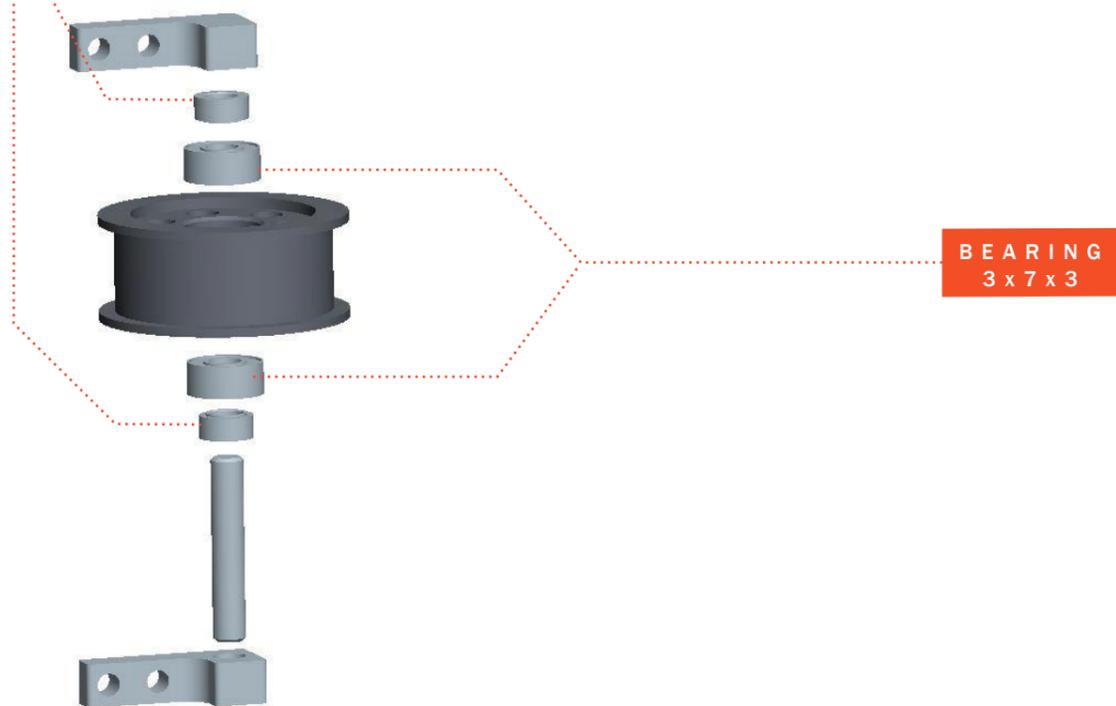
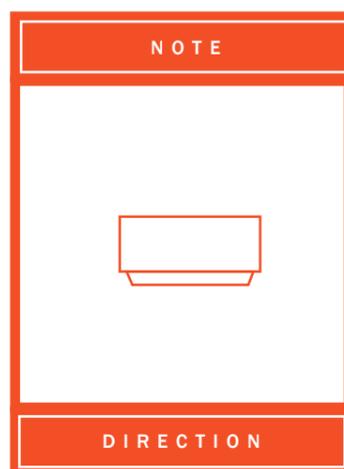


! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB - 1



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

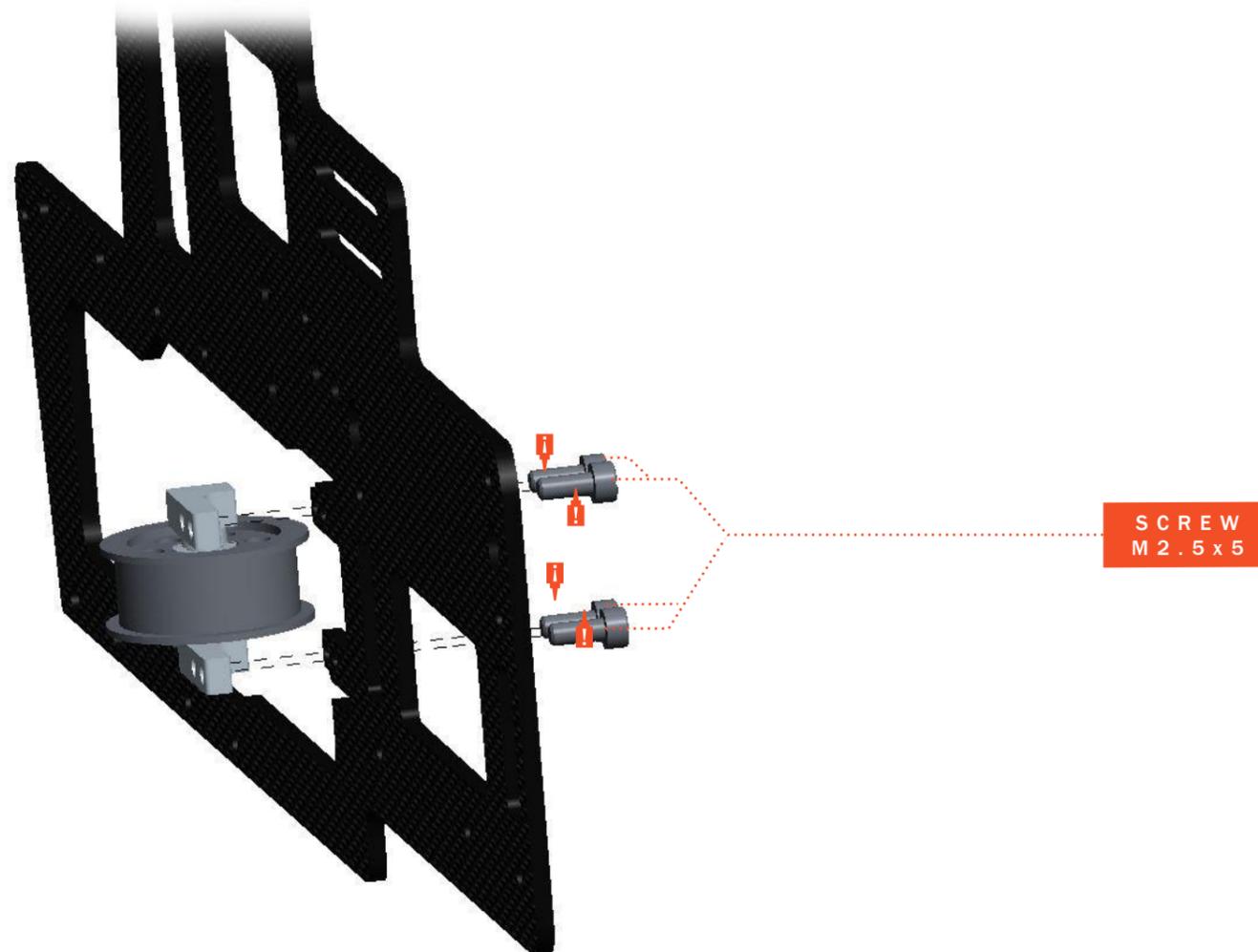


**BAGS:**

BB-1

BB-2

BB-1-1



RIGHT SIDE  
OF THE FRAME



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

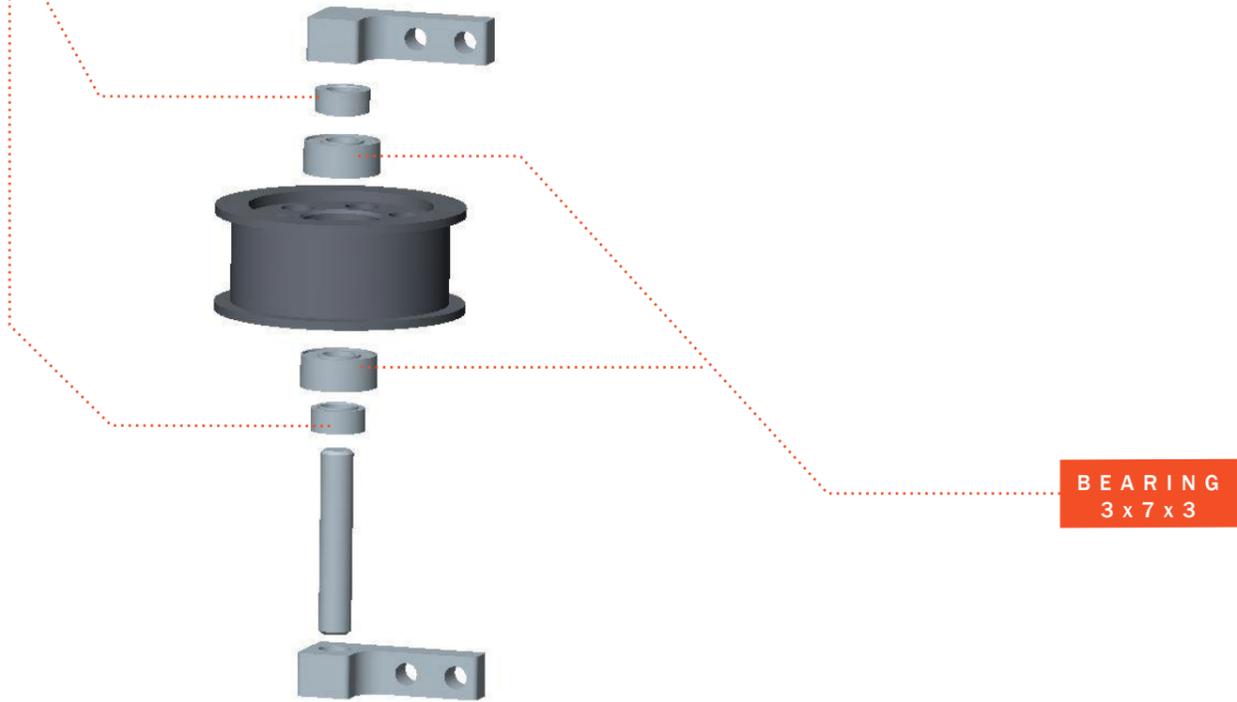


**BAGS:**

BB - 1

NOTE

DIRECTION

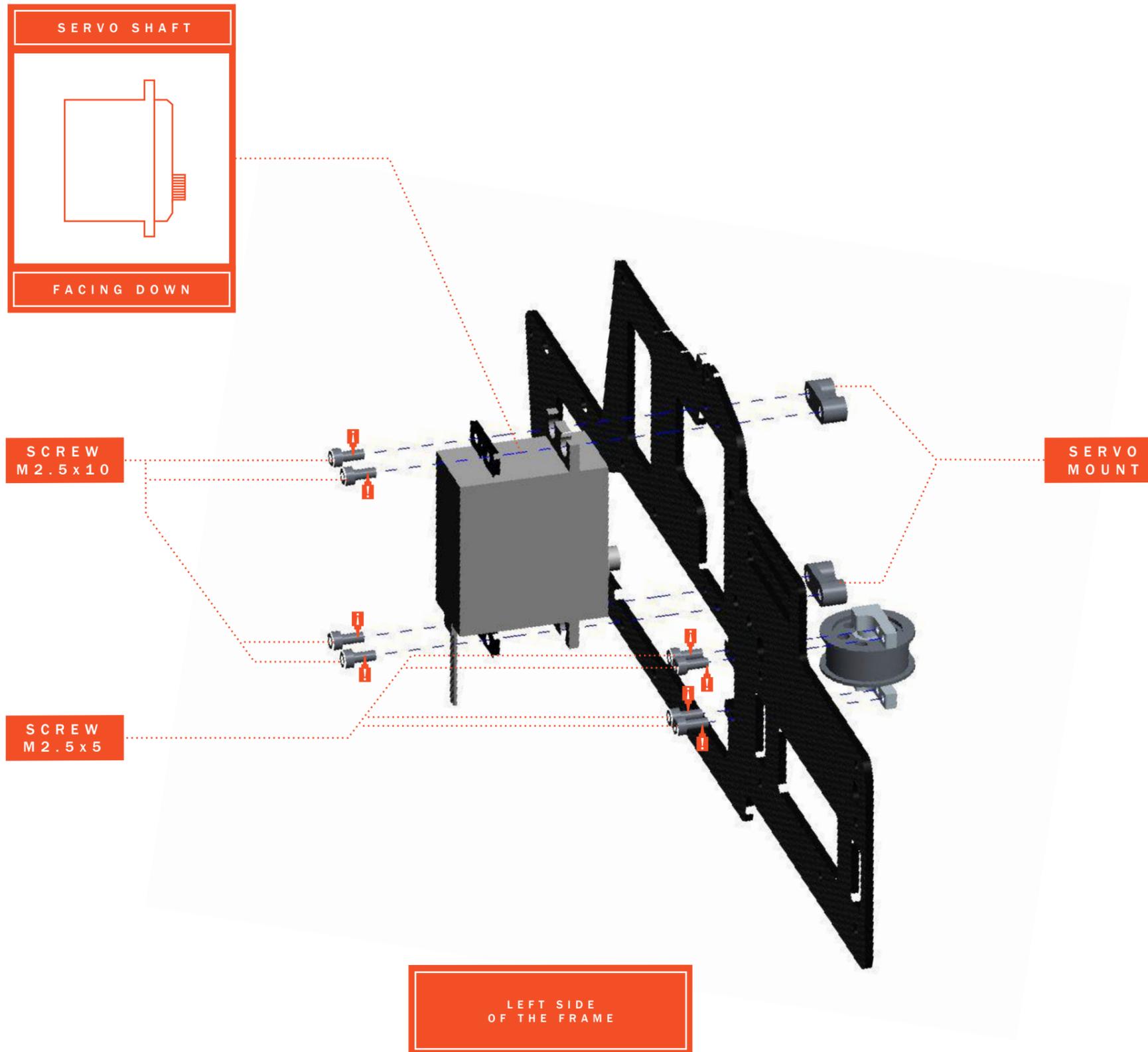


! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**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

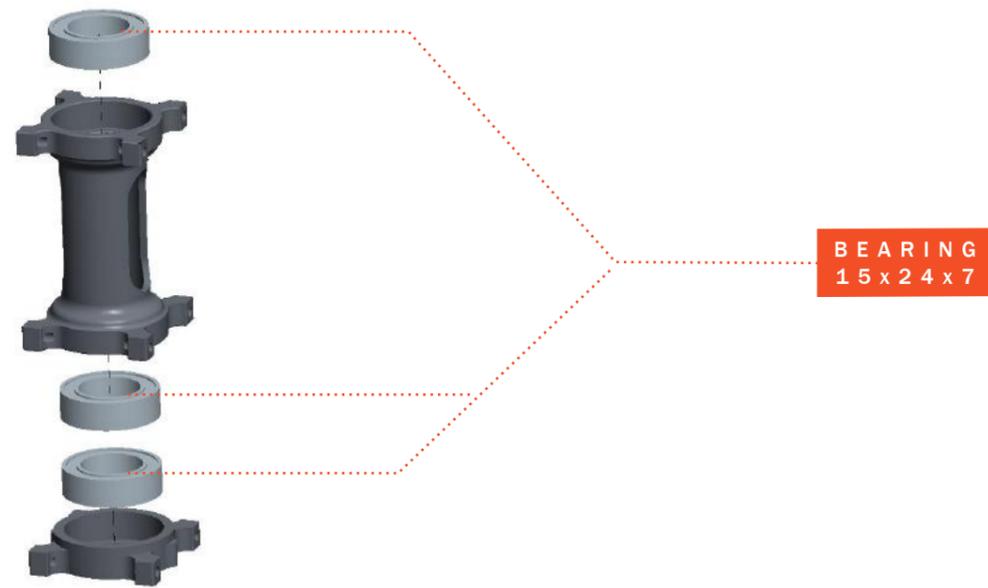
BB-1-5

BB-1-6

BB-1-7

BB-1-8

BB-1-9



! 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

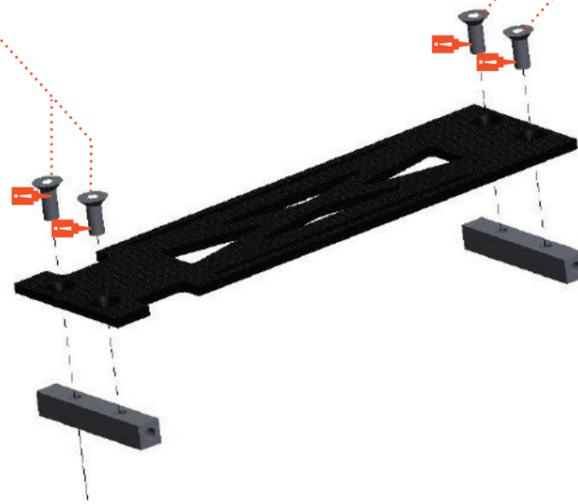
BB-1-6

BB-1-7

BB-1-8

BB-1-9

FLAT CAP SCREW  
M3x6



FLAT CAP SCREW  
M3x6

! 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  
M3x6



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



**BAGS:**

BB-1

BB-2

BB-1-3

BB-1-4

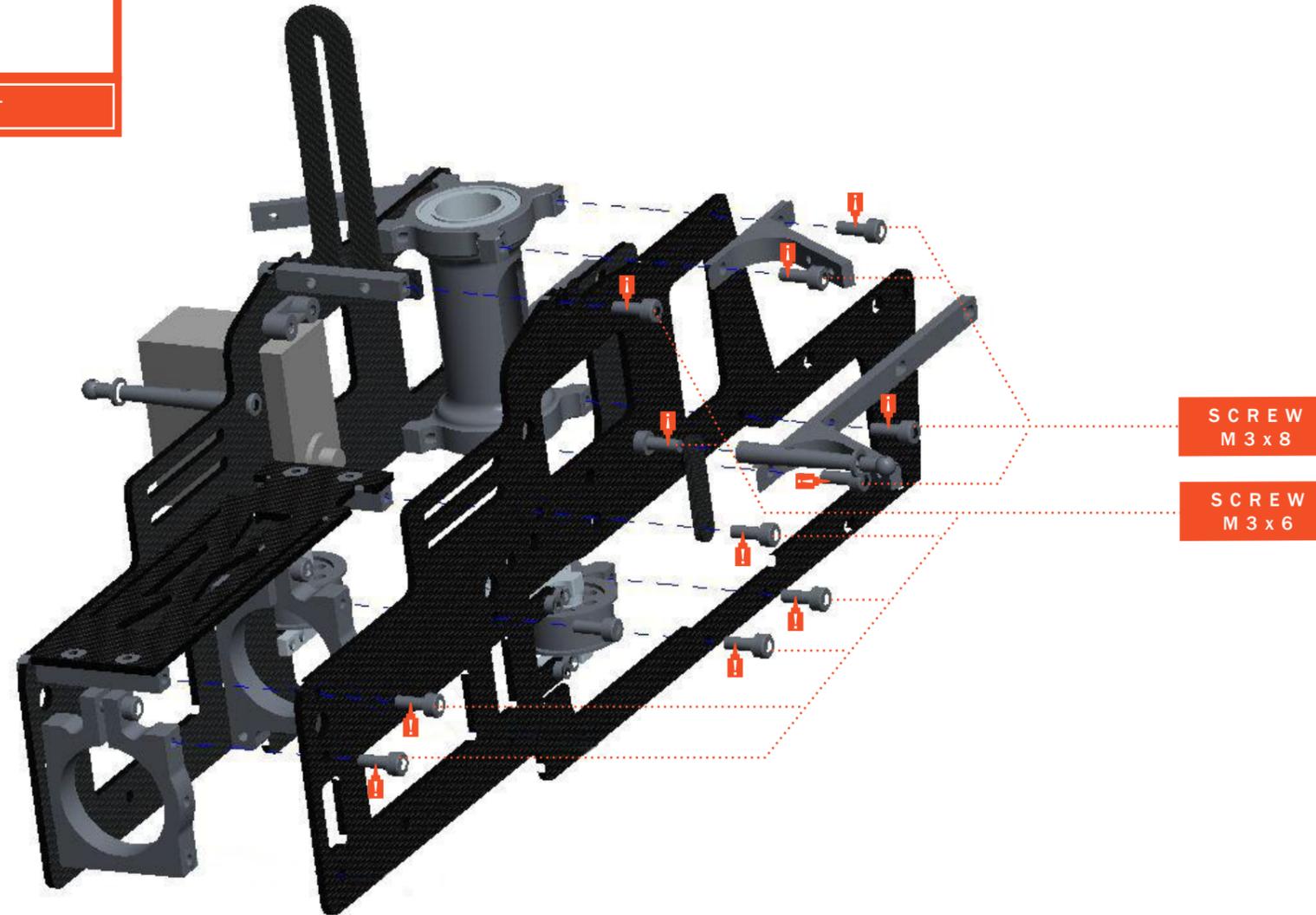
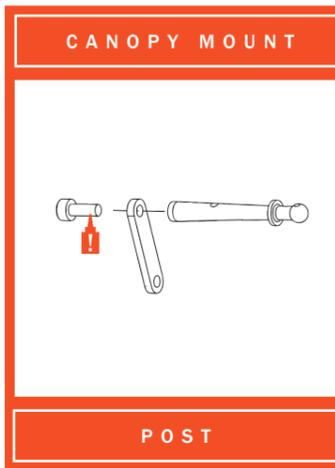
BB-1-5

BB-1-6

BB-1-7

BB-1-8

BB-1-9

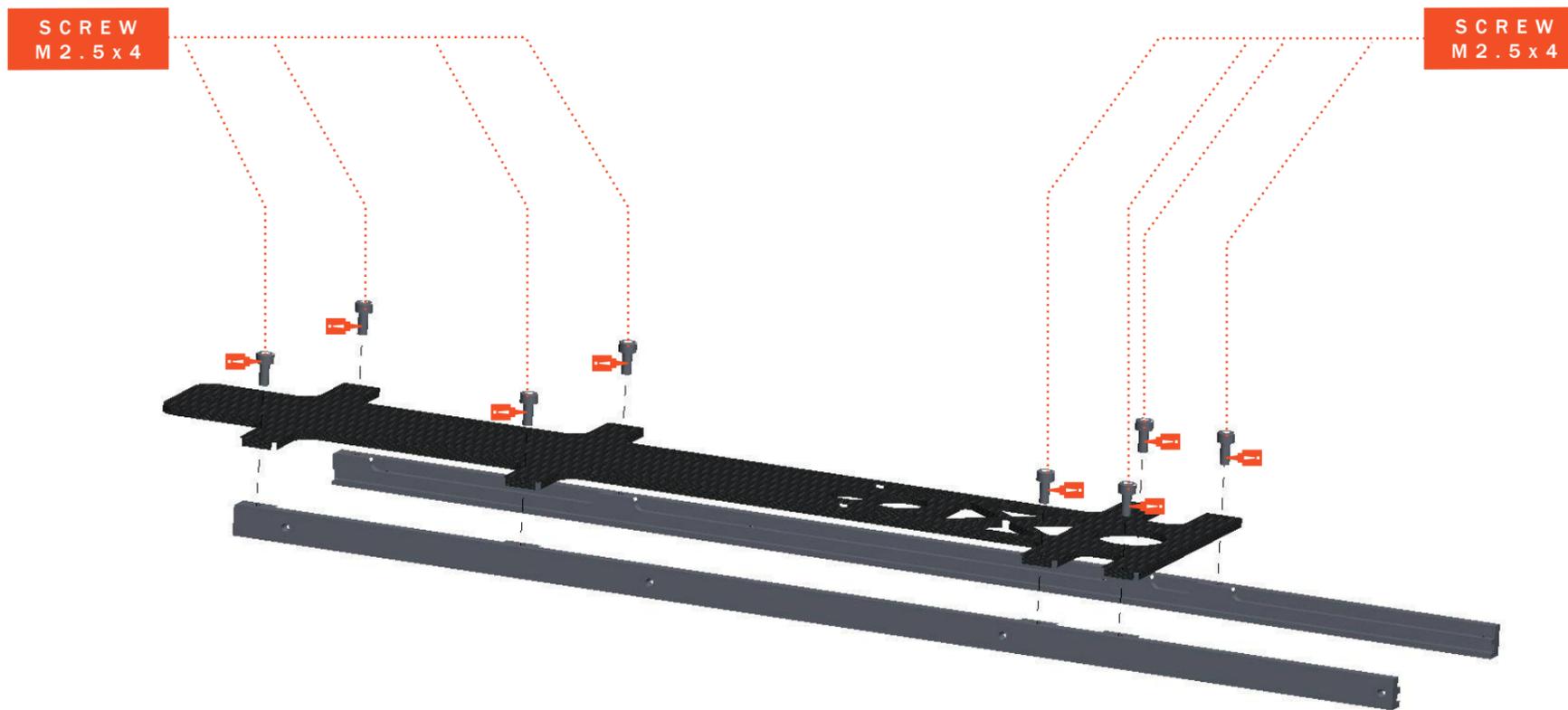


! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-3



GENTLY LOCK THE SCREWS  
AVOID SLIPPING SCREWS

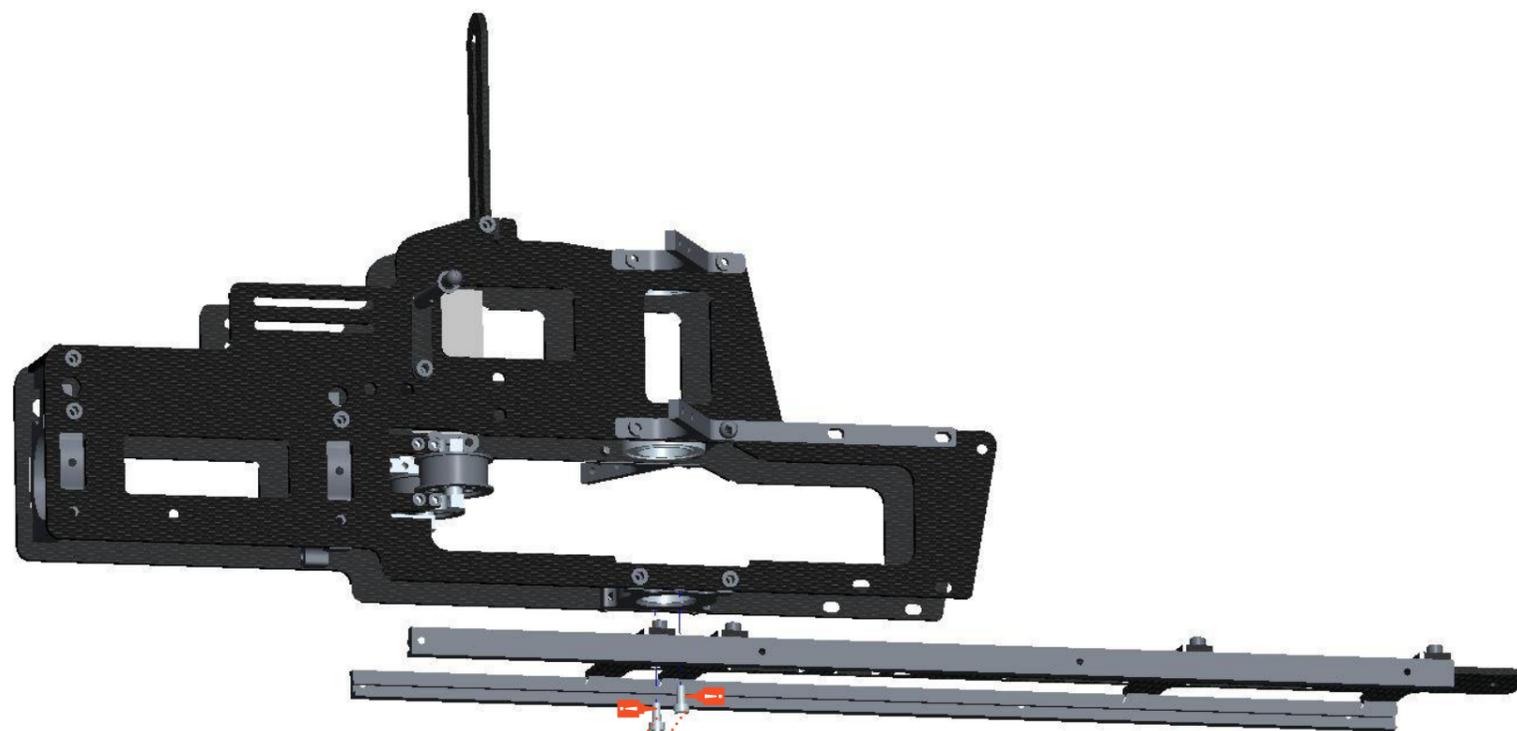


! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-3



SCREW  
M2.5x5

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

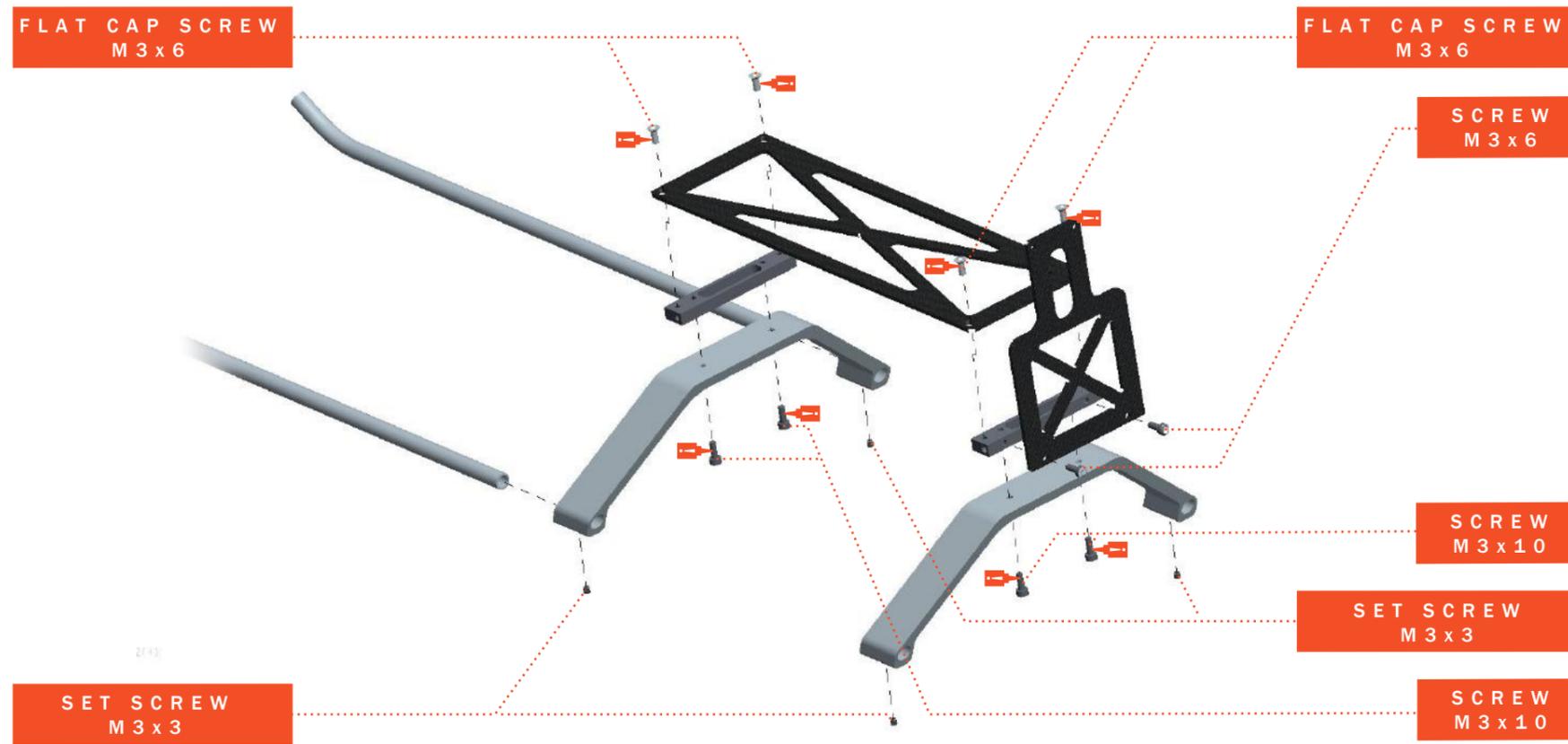


**BAGS:**

BB-4

BB-5

BB-1-10





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



**BAGS:**

BB-5

BB-1-11



GENTLY LOCK THE SCREWS  
AVOID SLIPPING SCREWS



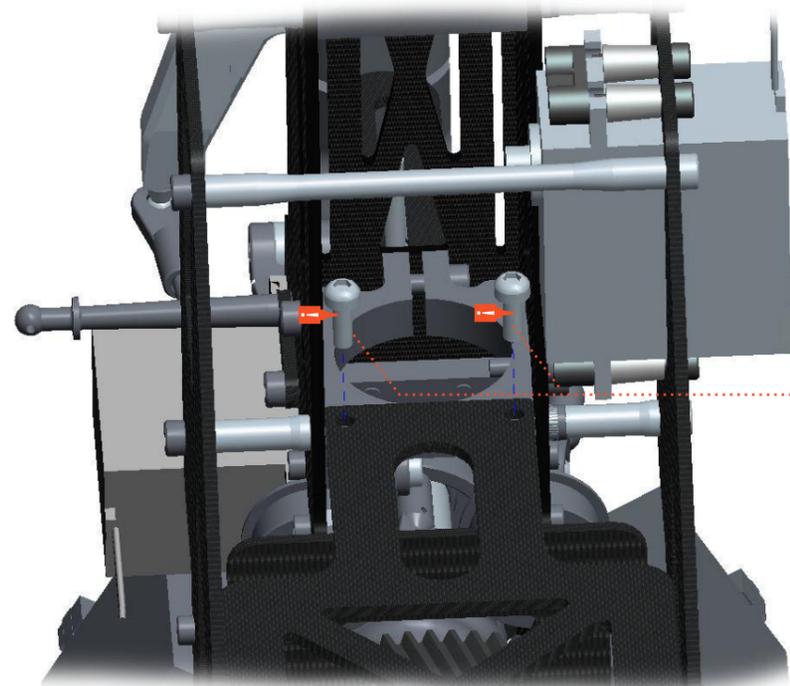
! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**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

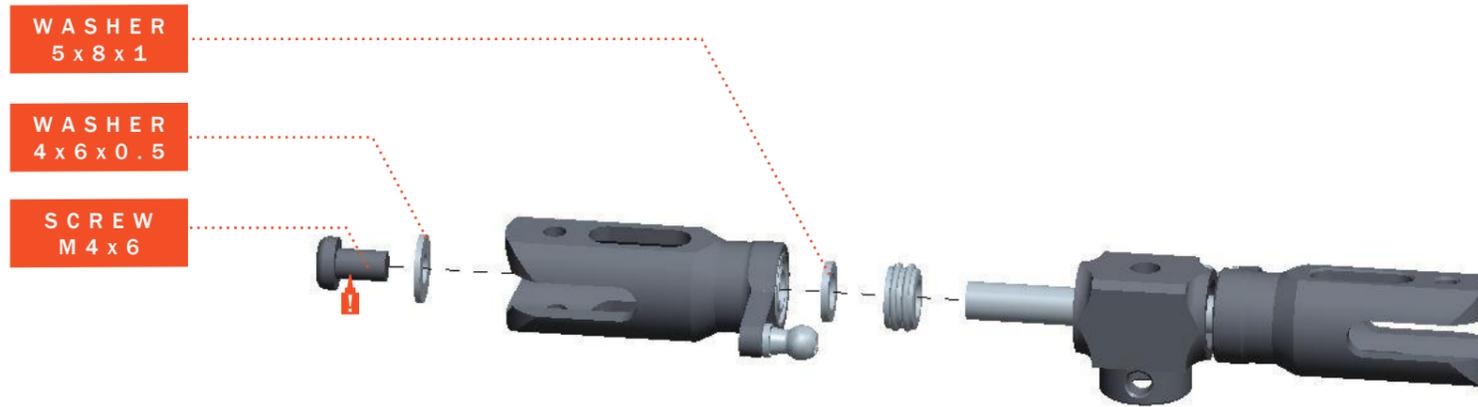


**BAGS:**

TB-1

TB-1-1

TB-1-10



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



**BAGS:**

TB-1

TB-2

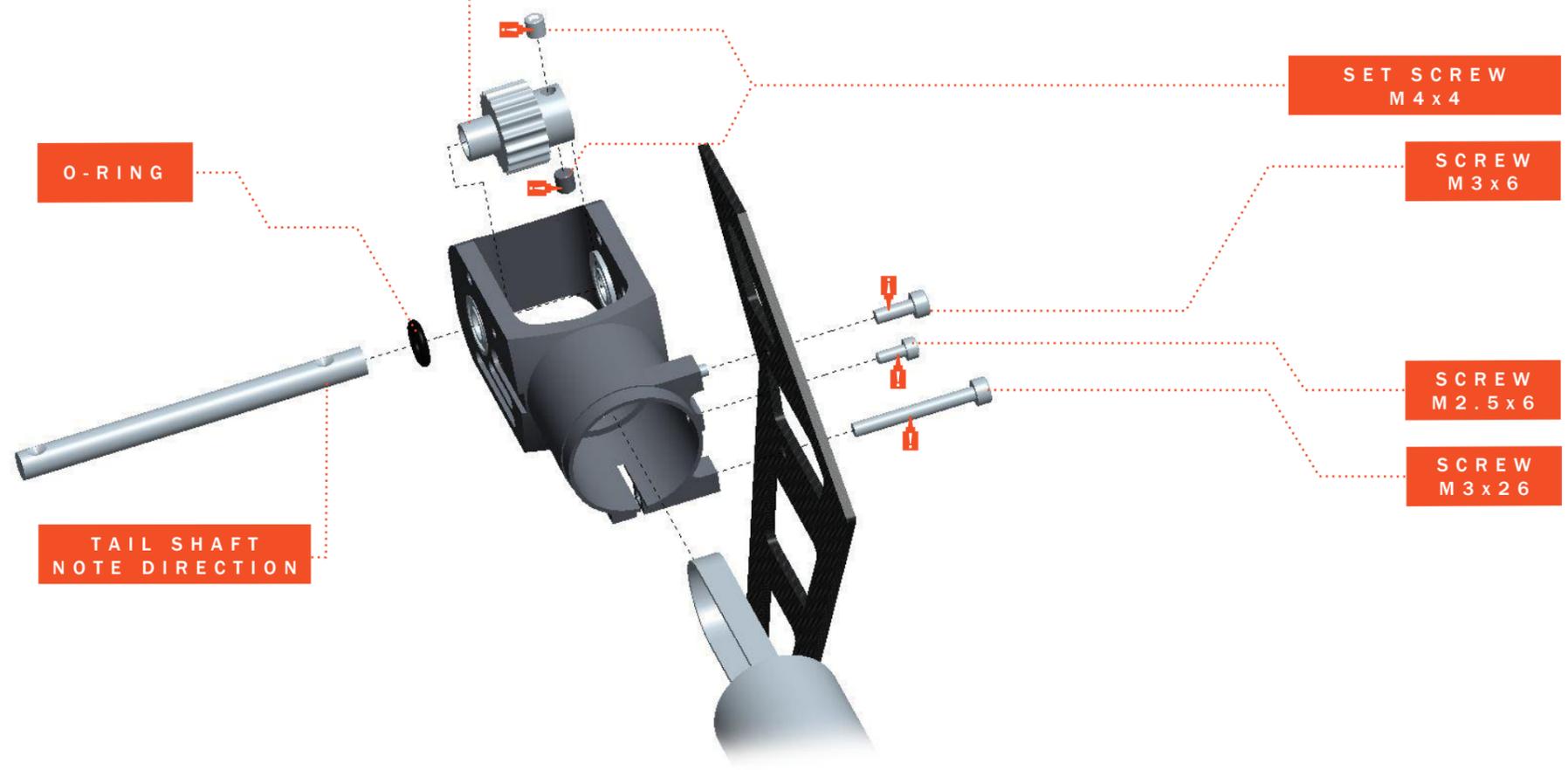
TB-3

TB-1-2

TB-1-3

TB-1-4

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



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



**BAGS:**

TB-1

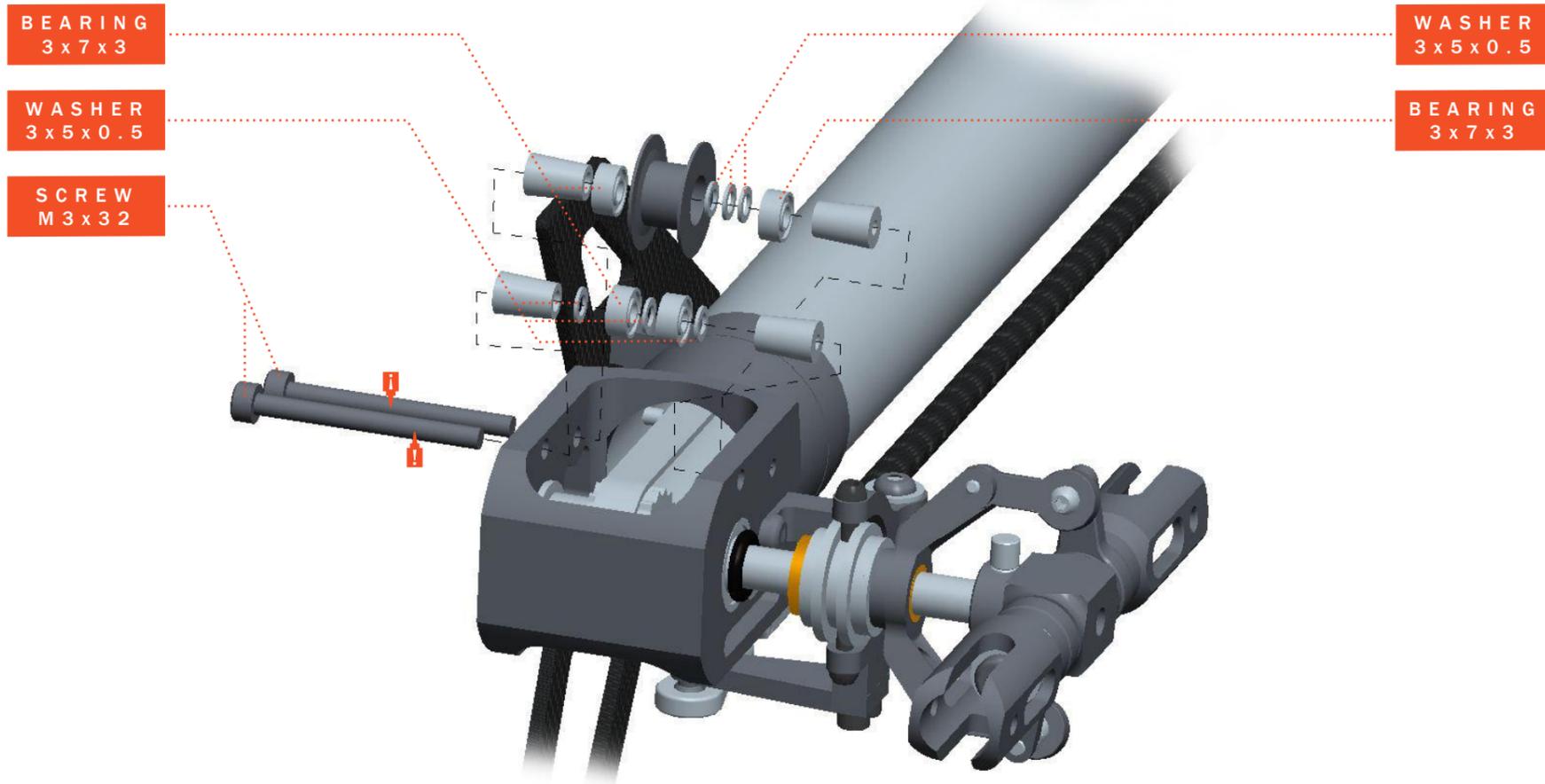
TB-2

TB-3

TB-1-2

TB-1-3

TB-1-4



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



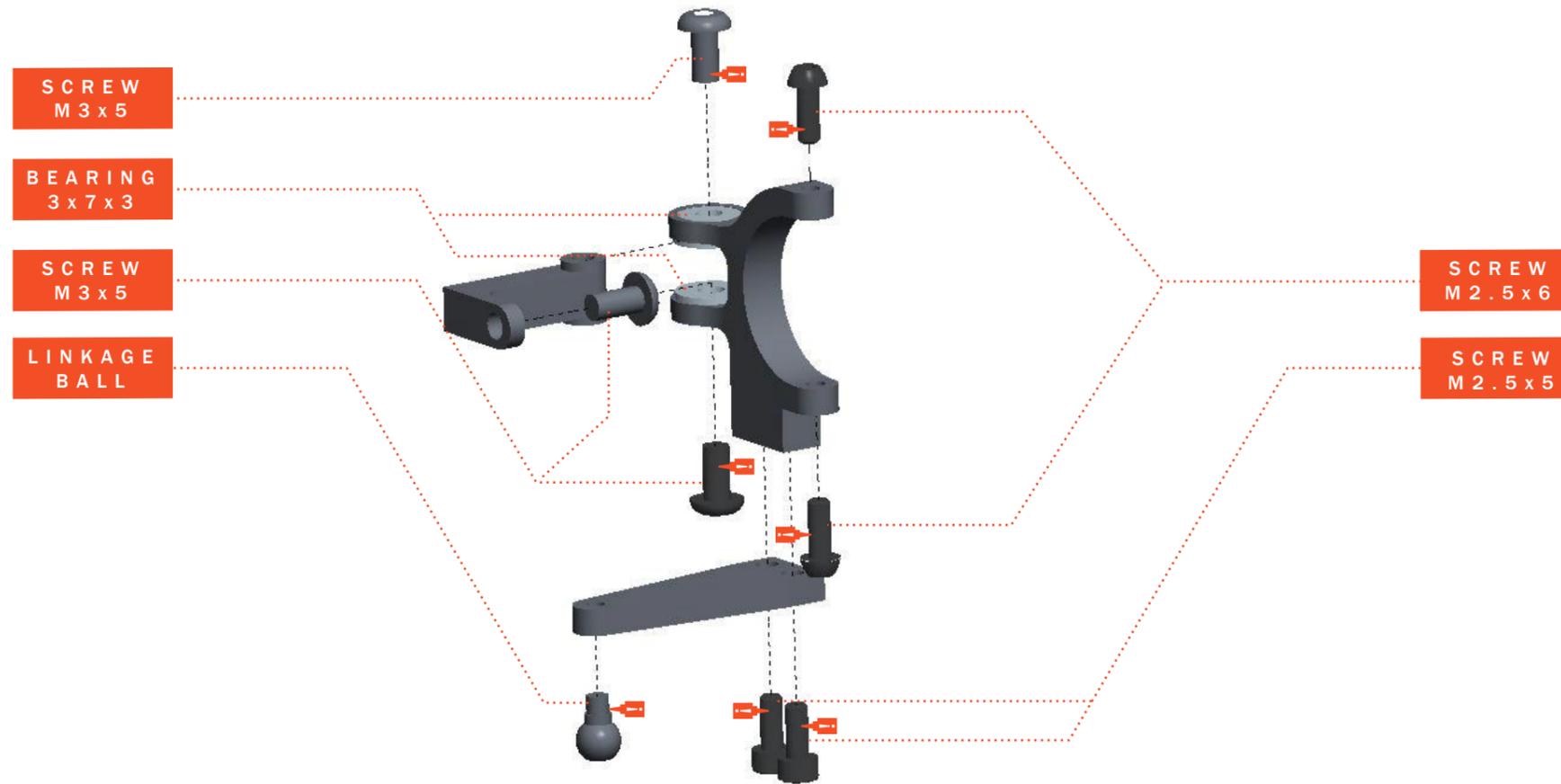
**BAGS:**

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



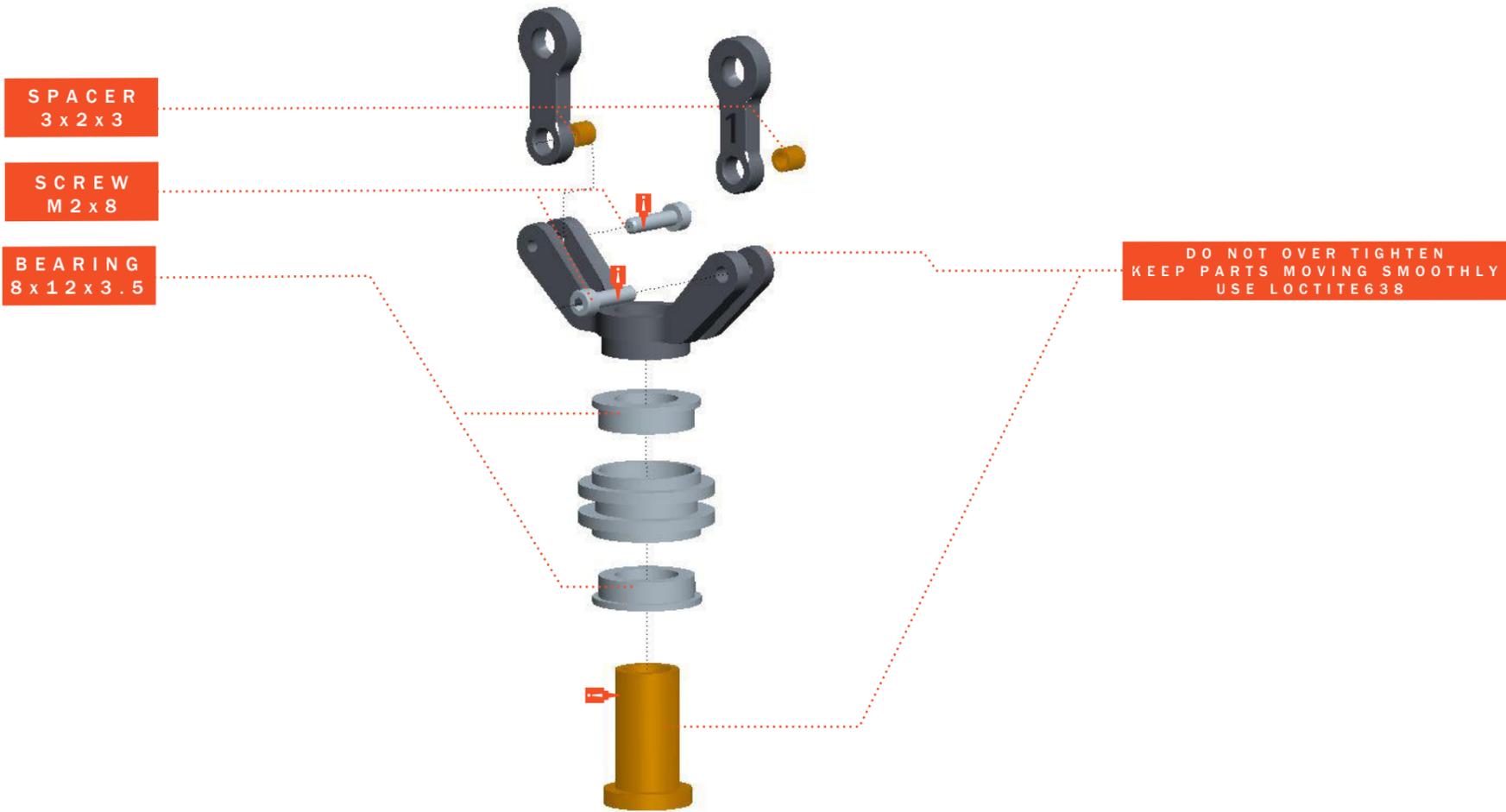
DIRECTION

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 LOCTITE 638



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



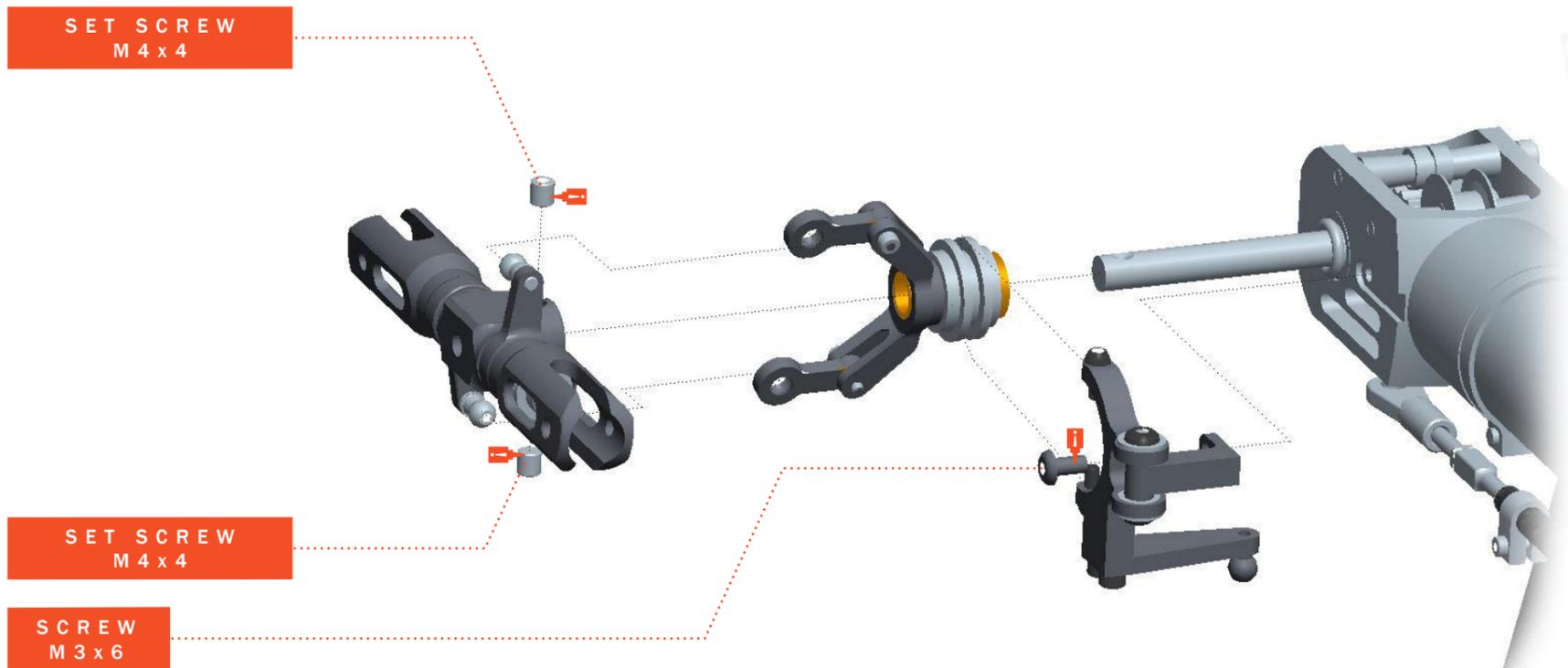
**BAGS:**

TB-1

TB-1-5

TB-1-6

TB-1-7



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



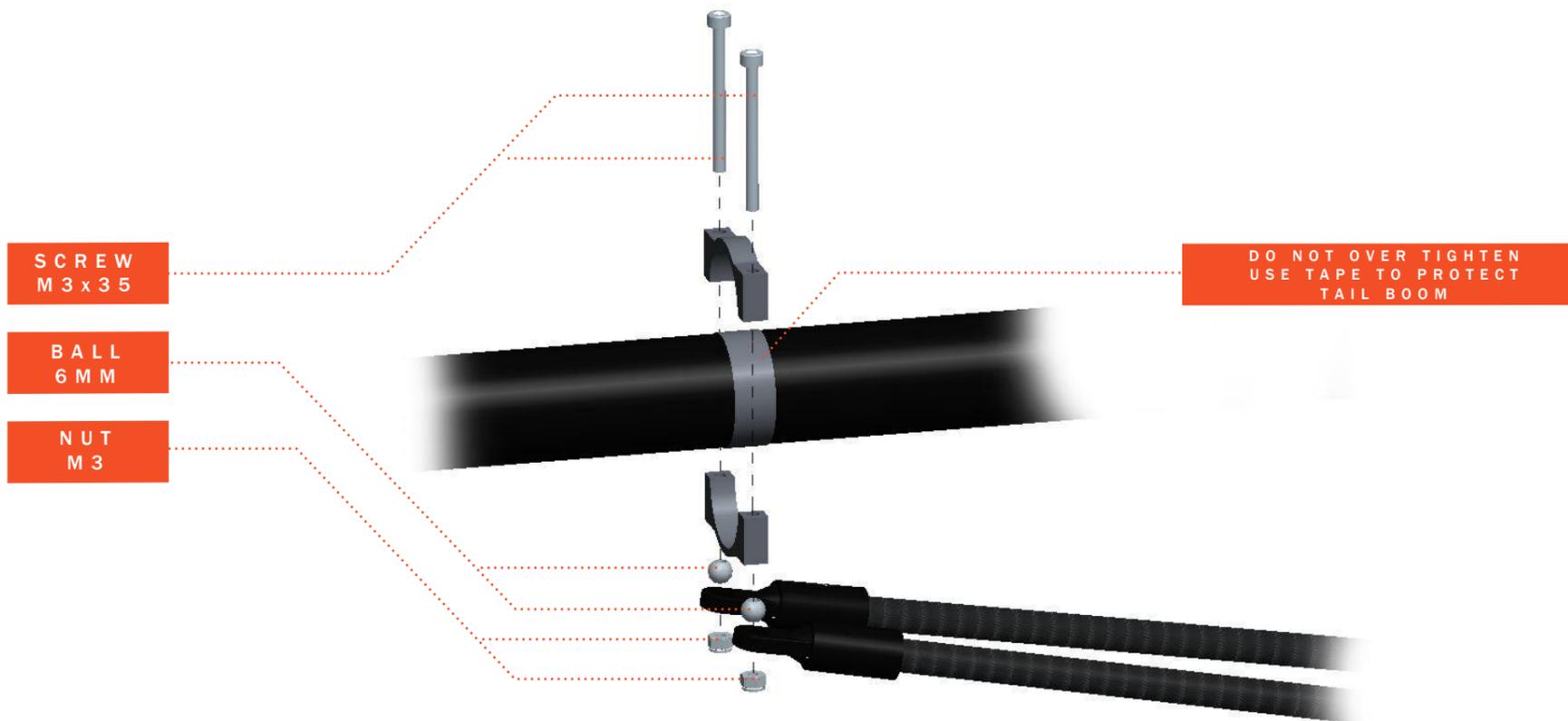
**BAGS:**

TB-1

TB-2

TB-1-8

TB-1-9



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



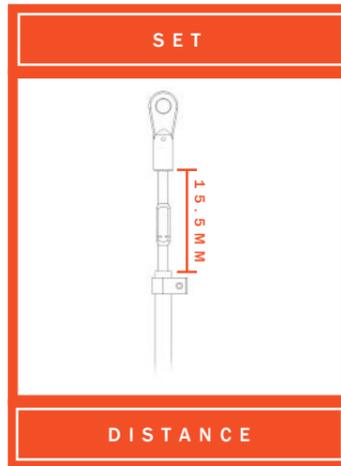
**BAGS:**

TB-1

TB-2

TB-1-8

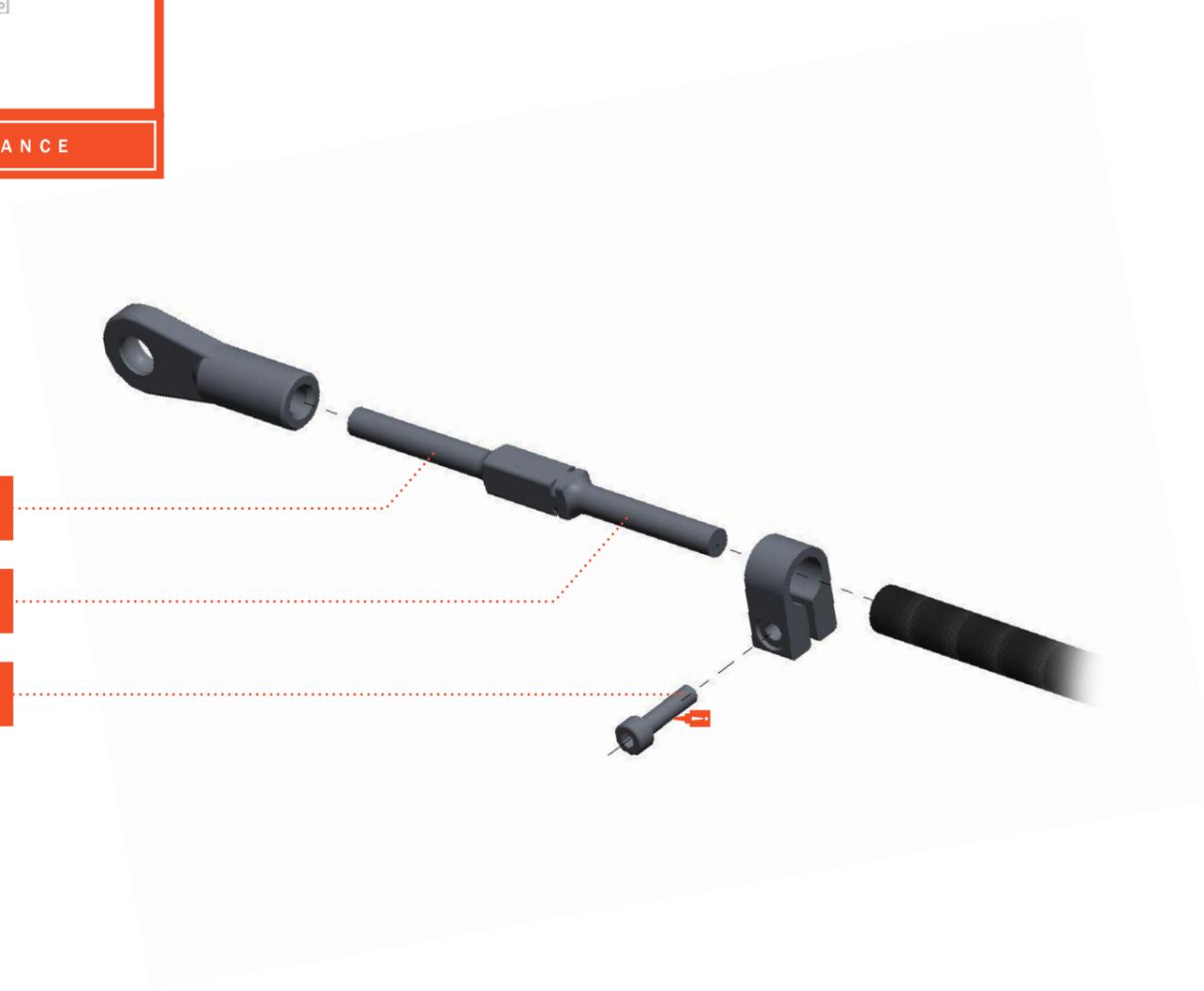
TB-1-9



RIGHT  
THREAD

LEFT  
THREAD

SCREW  
M2x6



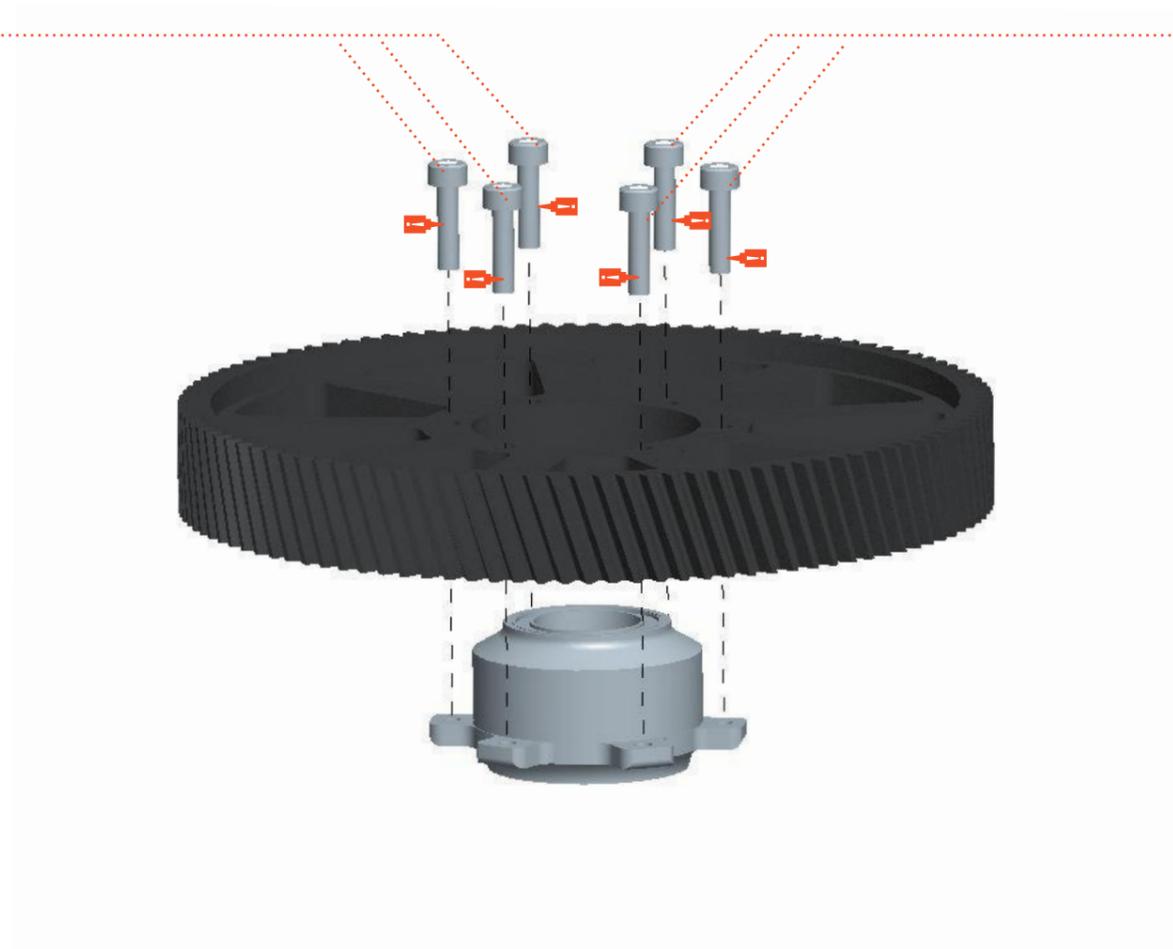
! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BAGS:**

BB-6

SCREW  
M3 x 12



SCREW  
M3 x 12



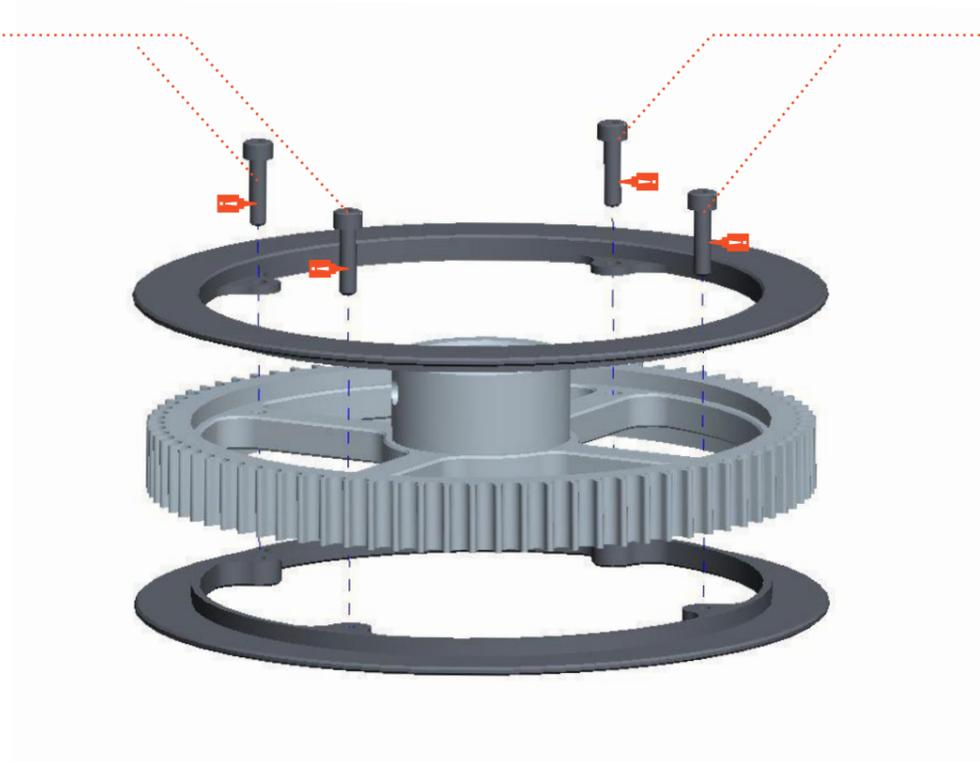
! APPLY A LITTLE AMOUNT OF  
243 THREADLOCK WHEN  
FIXING A METAL PART



**BBS:**

BB-6

SCREW  
M2 x 8



SCREW  
M2 x 8



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



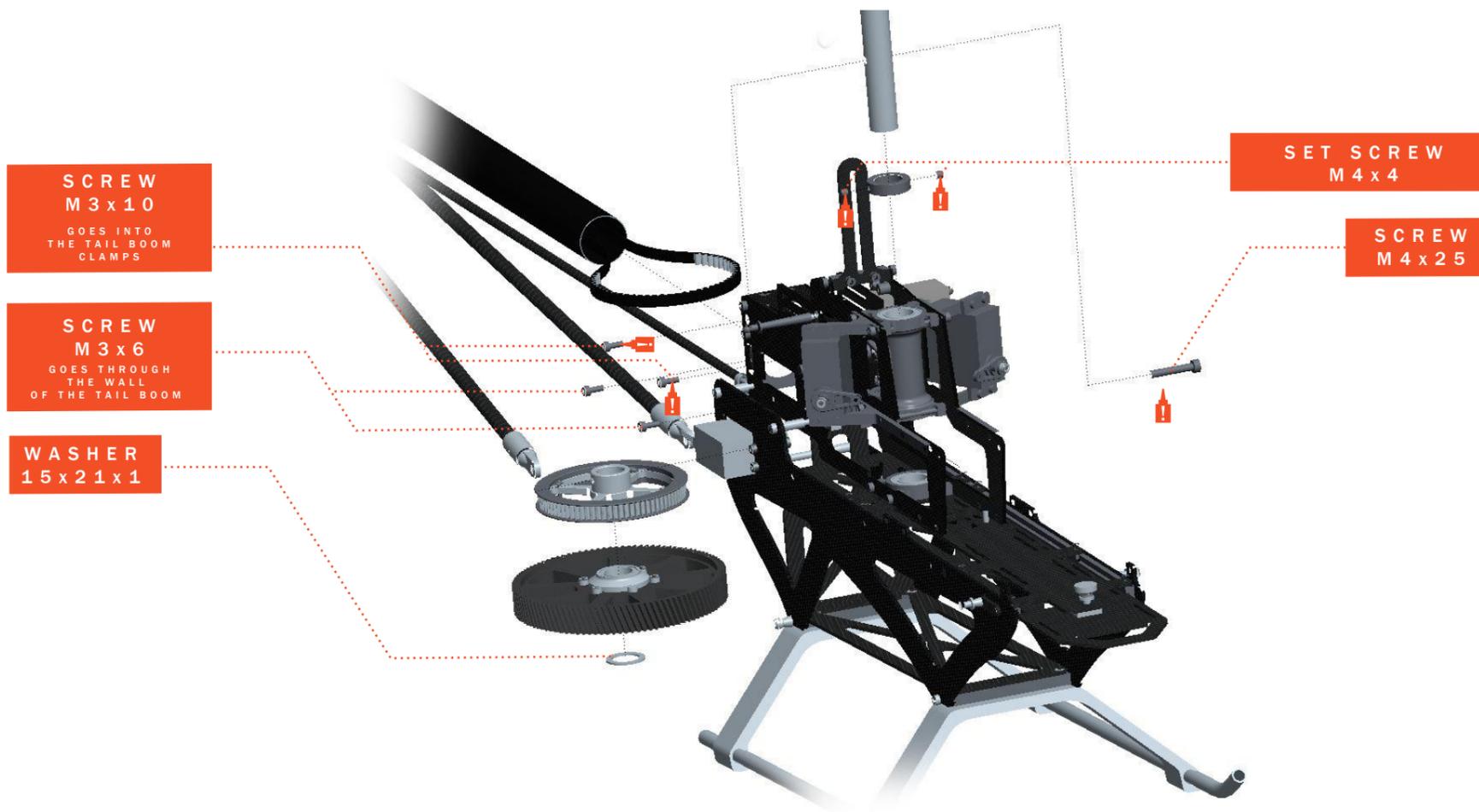
**BAGS:**

HB-1

HB-2

BB-6

HB-1-3



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



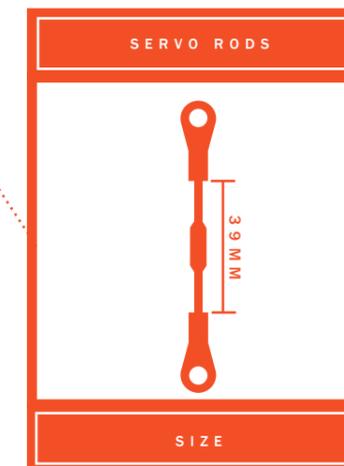
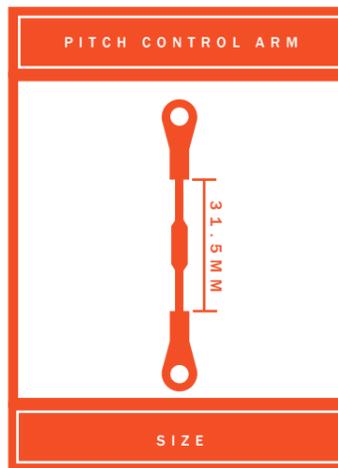
**BAGS:**

HB-1

HB-2

BB-6

HB-1-3



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

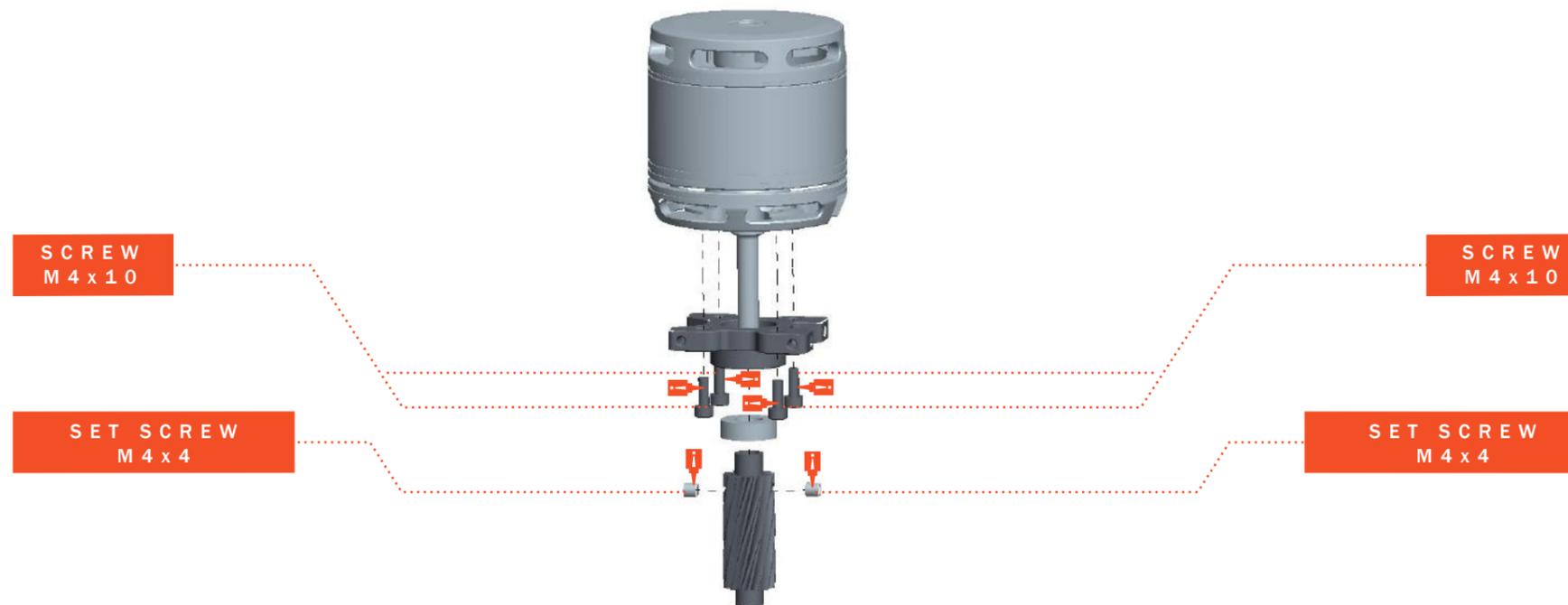


**BAGS:**

BB-1

BB-1-12

BB-1-13



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

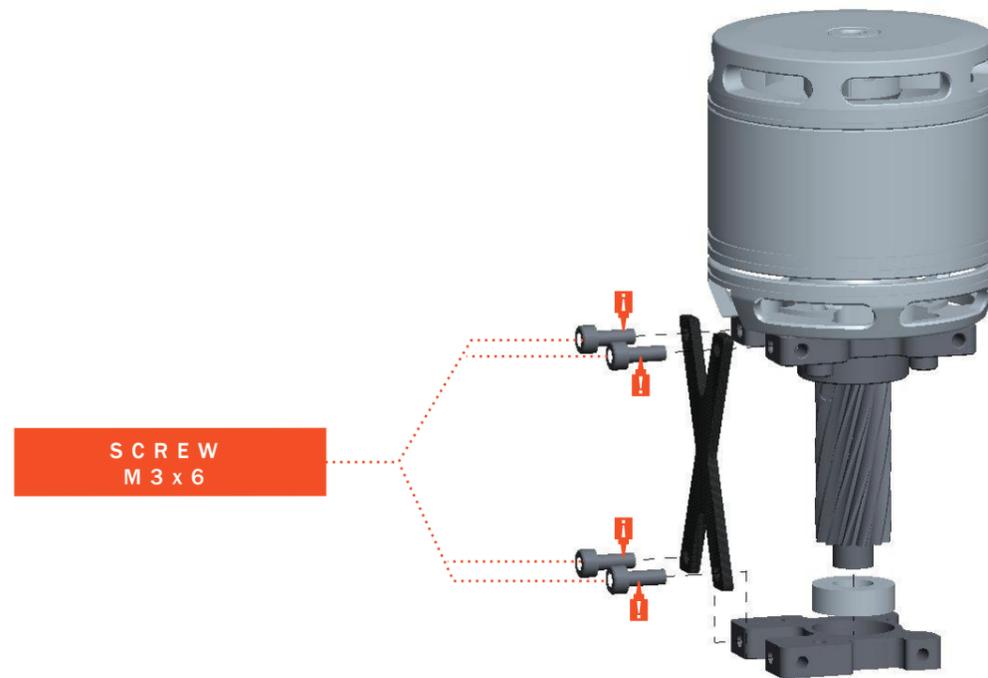


**BAGS:**

BB-1

BB-1-12

BB-1-13



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



**BAGS:**

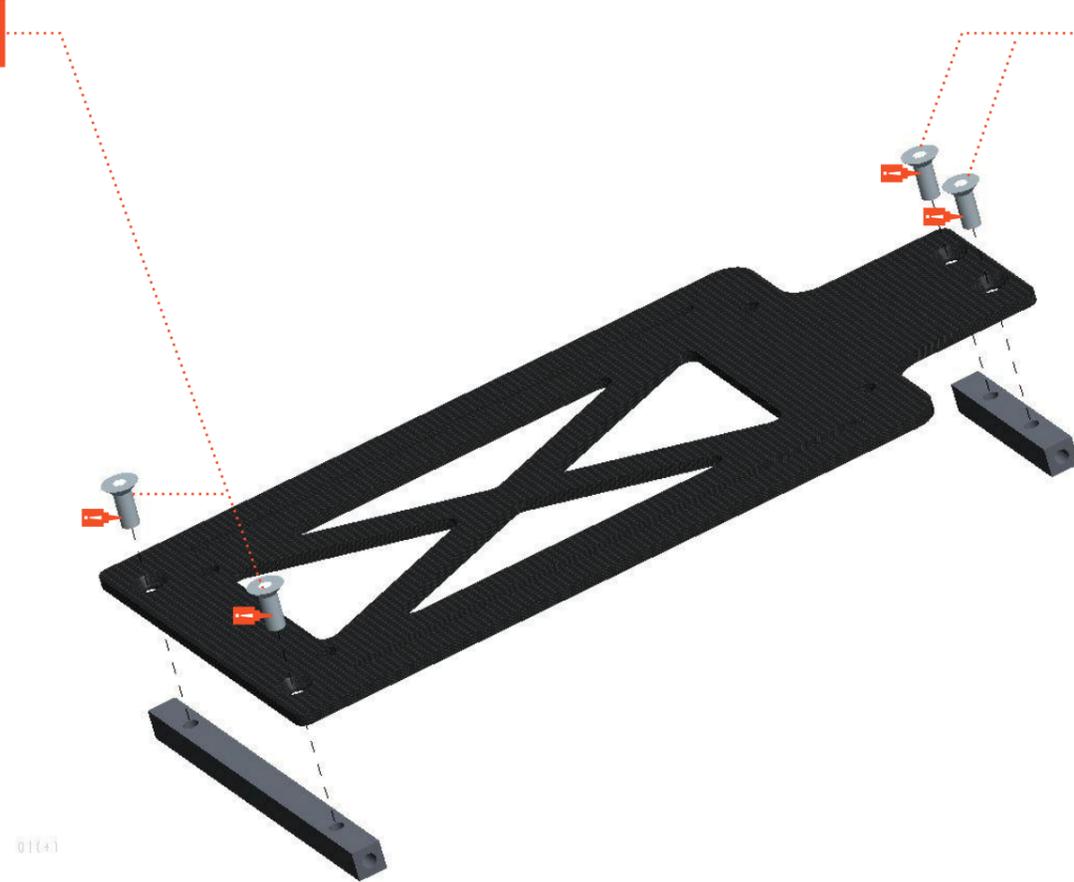
BB-1

BB-1-12

BB-1-13

FLAT CAP SCREW  
M3x6

FLAT CAP SCREW  
M3x6



01143



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

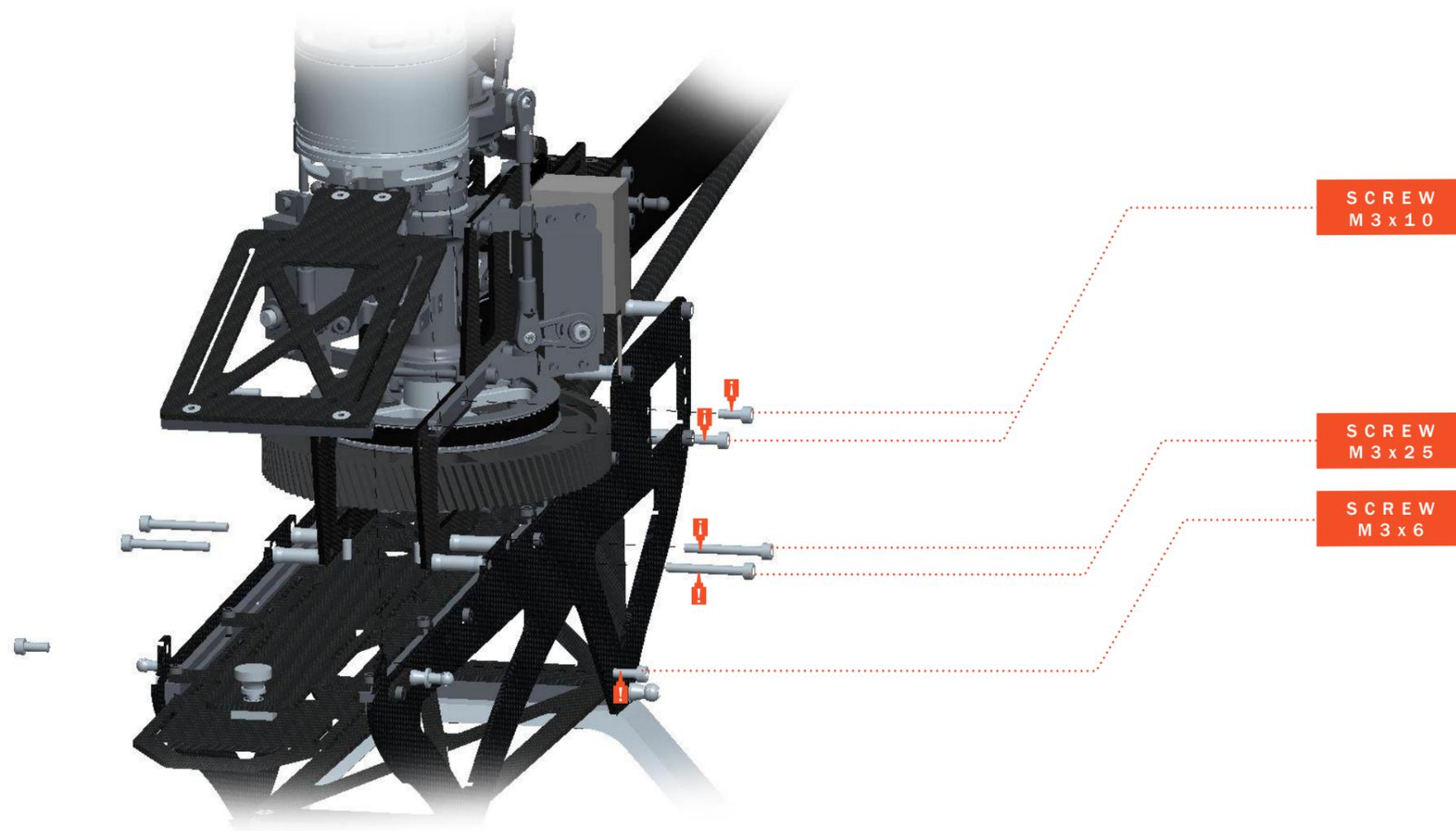


**BAGS:**

BB-1

BB-1-12

BB-1-13



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

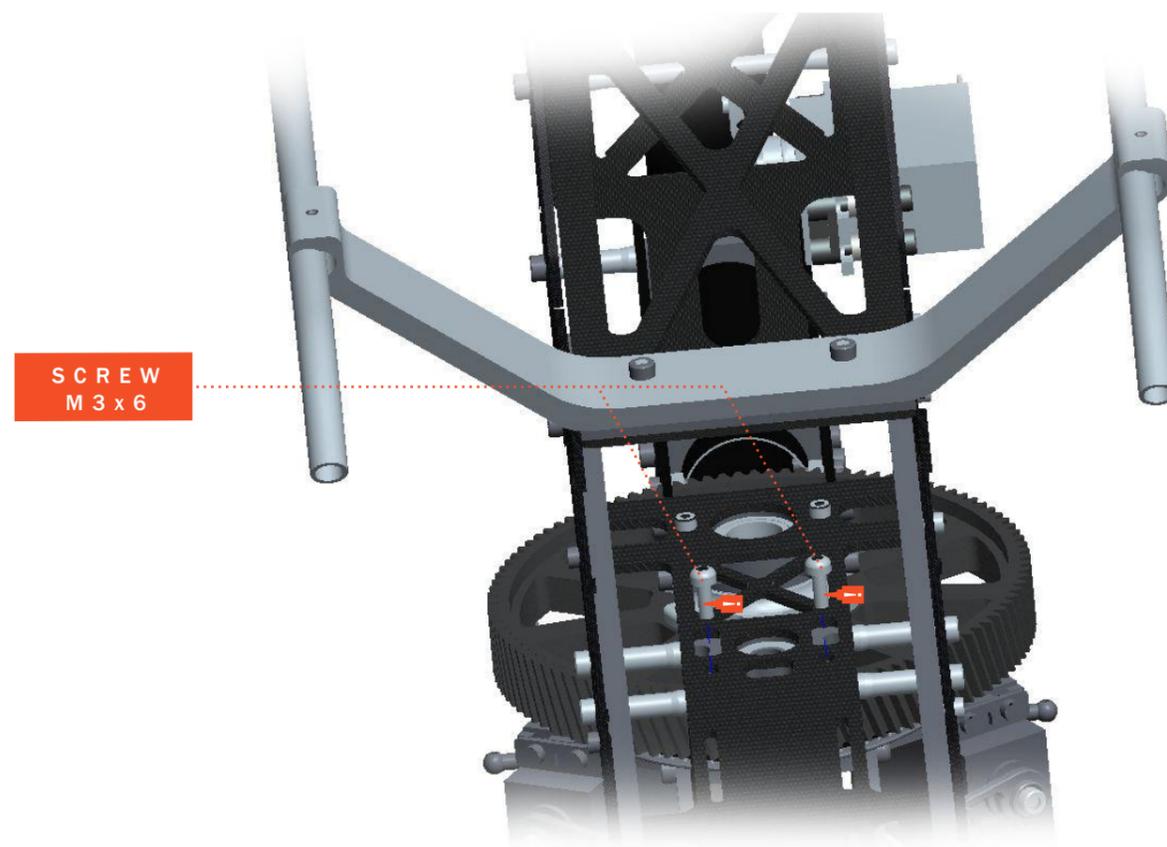


**BAGS:**

BB-1

BB-1-12

BB-1-13



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

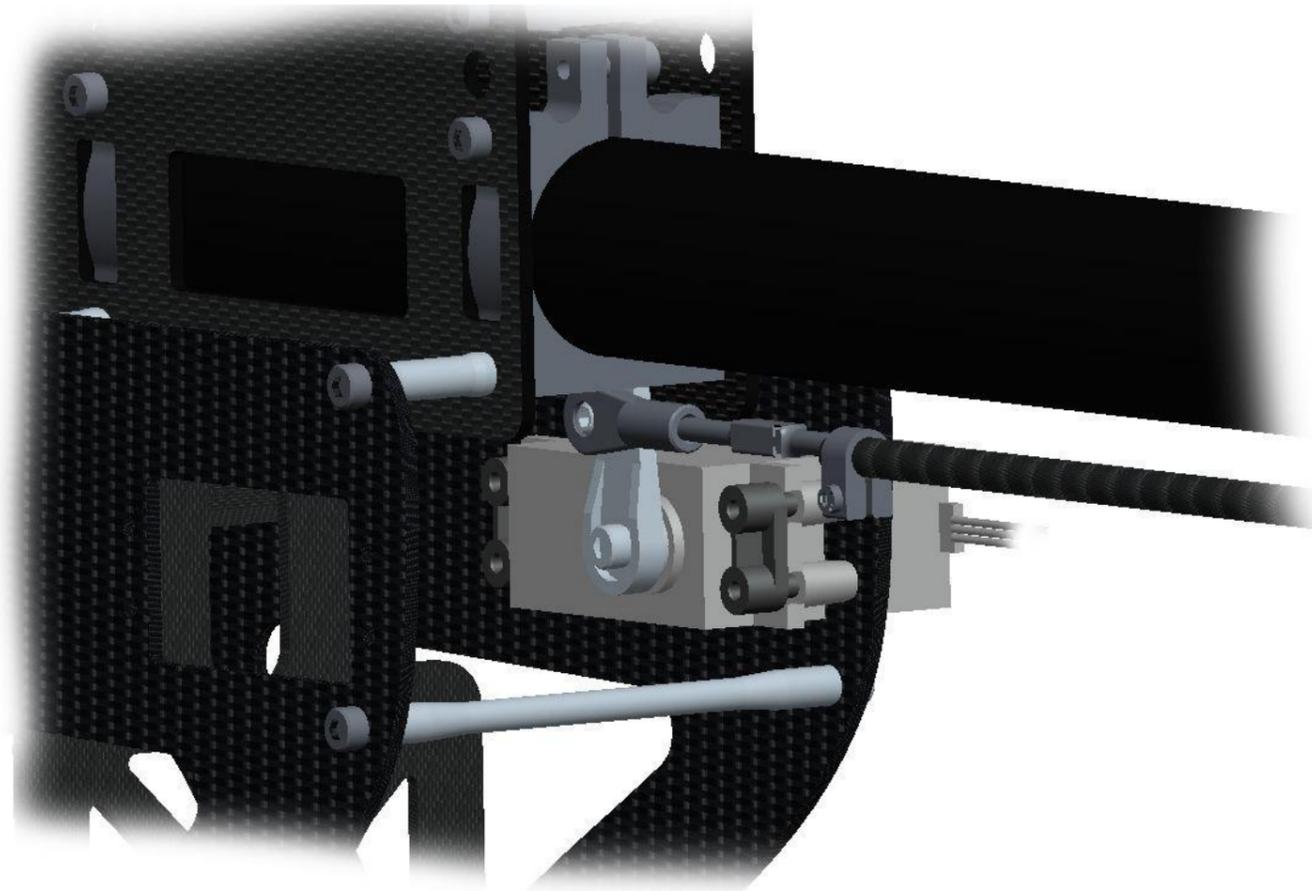
TB-1-9

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

