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
- 134MM
- 376MM
- 685-716MM
- 105-115MM
- 11T INCLUDED; 10, 12 OPTIONAL

**HEIGHT:**
- 106T
- 17T
- 80T
- 4.7

**WIDTH:**
- 4900G-5300G
- 15MM
- 10MM
- 27MM

**MAIN ROTOR BLADES:**
- L: 350MM  W: 66MM  H: 70MM (12s-14s)

**TAIL ROTOR BLADES:**
- 105-115MM

**MOTOR PINION:**
- 11T INCLUDED; 10, 12 OPTIONAL

**MAIN GEAR:**
- 106T

**TAIL PINION:**
- 17T
- 80T

**AUTOROTATION GEAR:**
- 4.7

**MAIN TO TAIL GEAR RATIO:**
- 4900G-5300G

**RTF WEIGHT:**
- 15MM
- 10MM
- 27MM

**MAIN SHAFT DIAMETER:**
- 15MM

**FEATHERING SHAFT DIAMETER:**
- 10MM

**TAIL BOOM DIAMETER:**
- 27MM

**BATTERY TRAY SIZE:**
- L: 350MM  W: 66MM  H: 70MM (12s-14s)
BAGS:

HB-1  HB-1-1  HB-1-2  HB-1-4  HB-1-5  HB-1-6

WASHER 10x16x1

BEARING 10x19x7

BEARING 10x19x7

SCREW M3x10

LINKAGE BALLS

THRUST BEARING 10x18x5.5

INSIDE OUTSIDE

THRUST BEARING

APPLY GREASE

to

B
IG
GER
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R
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ER
DIAME
ET
R

CUSTOMISABLE

INNER HOLE: AGILE

OUTER HOLE: STABLE

PITCH ARM

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

PUT THE O-RINGS INSIDE OUTSIDE ONTO THE DAMPER.

HEAD DAMPER
WASHER 10x16x1
WASHER 6x16x2
SCREW M6x12
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART

LINKAGE BALL 5x10.6

LINKAGE BALL 5x10.6

SCREW M2x4

LINKAGE BALL 5x26.6

LINKAGE BALL 5x26.6

BAGS:
HB-1 HB-1-1 HB-1-2 HB-1-4 HB-1-5 HB-1-6

THESE M2x4 SCREWS ARE ALREADY ASSEMBLED WITH THE SWASHPLATE
Apply a little amount of 243 threadlock when fixing a metal part.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART

NOTE

BEARING 3x7x3

BAGS:

6

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

RIGHT SIDE OF THE FRAME

SCREW M2.5x5

BAGS:
BB-1 BB-2 BB-1-1
Apply a little amount of 243 threadlock when fixing a metal part.
Apply a little amount of 243 threadlock when fixing a metal part.

Servo shaft facing down.

Screw M2.5x10

Screw M2.5x6

Left side of the frame.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.

SCREW M3x6
Apply a little amount of 243 threadlock when fixing a metal part.

Canopy Mount

Post

Screw M3x8

Screw M3x6
Apply a little amount of 243 threadlock when fixing a metal part.

Screw M2.5x4

Gently lock the screws to avoid slipping screws.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART

SCREW M2.5x5
Apply a little amount of 243 Threadlock when fixing a metal part.

Flat Cap Screw M3x6

Screw M3x6

Set Screw M3x3

Set Screw M3x10

Set Screw M3x10
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART

BALL POSITION

ON SERVO ARM

16-18MM

SERVO MOUNT

WASHER

SCREW M2.5x20

WASHER

![Apply a little amount of 2B3 threadlock when fixing a metal part.]

**Components:**
- **Aluminum Bolt 70mm**
- **Aluminum Bolt 17mm**
- **Screw M3x26**
- **Screw M2.5x6**
- **Screw M2.5x4**
- **Screw M3x6**
- **Ball**

**Instructions:**
- Gently lock the screws.
- Avoid slipping screws.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
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.

- Add extra washer to remove any play (washers are in the backup bag).
- Tail shaft note direction.

Components:
- O-Ring
- Screw M3x6
- Screw M2.5x6
- Screw M3x26
- Set Screw M4x4

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-2  TB-3  TB-1-2  TB-1-3  TB-1-4

Bearing 3x7x3
Washer 3x5x0.5
Screw M3x32
Washer 3x5x0.5
Bearing 3x7x3
Apply a little amount of 243 threadlock when fixing a metal part.
Apply a little amount of 243 threadlock when fixing a metal part.

**NOTE**

**DIRECTION**

**BAGS:**

- TB-1
- TB-1-5
- TB-1-6
- TB-1-7

**Components:**

- Spacer 3x2x3
- Screw M2x8
- Bearing 8x12x3.5

Do not over tighten. Keep parts moving smoothly. Use Loctite638.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.

Screw M3x35
Ball 6mm
Nut M3

DO NOT OVER TIGHTEN
USE TAPE TO PROTECT TAIL BOOM.
Apply a little amount of 243 threadlock when fixing a metal part.

- **Right thread**
- **Left thread**
- **Screw M2x6**

**Bags:**
- TB-1
- TB-2
- TB-1-8
- TB-1-9
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART

SCREW M3x12

SCREW M3x12
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.

SCREW M4x10

SET SCREW M4x4

SCREW M4x10

SET SCREW M4x4
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART

FLAT CAP SCREW M3x6

FLAT CAP SCREW M3x6
Apply a little amount of 243 threadlock when fixing a metal part.

Screw M3x10

Screw M3x25

Screw M3x25

Screw M3x6
APPLY A LITTLE AMOUNT OF 243 THREADLOCK WHEN FIXING A METAL PART.

SCREW M3x6

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