











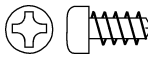





Hawk Sport Construction Manual

This manual has been written for the Hawk Sport helicopter kit CN1000B. This instruction manual covers the full step by step construction of the kit as a supplement to the Quick Start Guide. The Hawk Sport 80% assembled helicopter can be assembled in just 3 hours by simply following the Quick Start Guide and referencing this manual on steps that are more complicated.

Every attempt has been made to ease the assembly of your kit, at each step where there are complex assemblies you can read the detailed description here while following the pictures in the Quick Start Guide. Remember to take a few minutes before each step to carefully examine the step in order to become familiar with the parts and assembly sequence before beginning that step.

Symbols used to help assist you in building the kit:

	Full Scale Drawing		Repeat Steps as specified		Partially tighten		Helpful Tip
	Apply oil		Apply threadlock		Purchased Separately		Cut away Shaded Portion
	Special Attention		Apply JB Weld		Apply Grease		
Tip 1	Remove oil residue from fasteners before applying any threadlock agent.	Tip 2	Tap holes with machine screws before installing steel balls in plastic.	Tip 3	Tap holes with machine screws before installing self tap screws in plastic.	Tip 4	Tap holes with machine screws carefully in plastic holes with bottoms.
Hardware Description and Identification: M3x6 = 3x6mm and can refer to screws or ball bearings.							
M3x6 Phillips Machine Screw  M - metric 3 - diameter 6 - length		M3x6 Self Tapping Screw  M - metric 3 - diameter 6 - length		M3x10 Socket Cap Screw  M - metric 3 - diameter 6 - length		3x7 Ball Bearing   M - metric 3 - inside ∅ 6 - outside ∅	

Recommended Tools & Accessories

The tools and materials listed below are the minimum needed to build the helicopter:

Screwdrivers - Slotted and Phillips head.
 Long-Nosed Pliers.
 Allen Wrenches - 1.5mm, 2.0mm, 2.5mm.
 (supplied in kit) + 3.0mm
 Appropriate Socket Wrench
 (glow plug wrench for engine shaft nut)
 Hobby Scissors
 Double Sided Foam Tape (1/16" - 3/32")
 Foam Rubber (radio packing)
 JB Weld (bond clutch lining)
 Thread lock liquid (e.g. Locktite)
 Hobby Grease (Super Lube)
 Oil to lubricate sliding shafts.
 "Y" Harness for 4 Ch Airplane Radio with 5 servo

In addition, the following will make assembly and setup easier, and prove useful later in your model toolbox:

Part#CN2015 Hardened Tip Hex Screw Driver Set
 Part#CN2026 Pitch Gauge with Paddle Gauge.
 Part#CN2034 15° Curve Tip Ball link Pliers.
 Part#CN2052 Main Blade Balancer.
 Part#CN2054 Special Glow Plug Wrench Set.
 Part#CN2055 Ball Link Sizing Tool.
 Part#CN2070 Universal Flybar Lock.
 Part#CN2155 Piston Locking Tool.
 Part#CN2219 Ball Link Easy Driver.
 Part#CN2255 Control Rod Gauge.
 Part#CNWI26555 5.5mm Nut Driver.
 Part#CNWI26570 7.0mm Nut Driver..