












Scale Mechanics Construction Manual

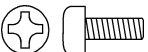
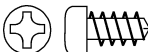


This manual has been written for Century's 30-50 size scale helicopters which are available in both kit and ARF versions. This manual covers the full construction of the flying mechanics and works in cooperation with the detail manual for the particular scale helicopter you are building.

Modelers who have purchased the ARF assembled scale helicopters will complete the final assembly along with the radio setup and configuration as detailed in the 2nd half of this manual. In cases where the instructions are different, look for the action boxes which describe how to proceed for the particular step. Every attempt has been made to ease the assembly of your kit, at each step where there are complex assemblies, there are detailed drawings, photos and written instructions to walk you through each step. Remember to take a few minutes before each step to carefully examine the instructions 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		

Hardware Description and Identification: M3x6 = 3x6mm and can refer to screws or ball bearings.

<p>M3x6 Phillips Machine Screw</p>  <p>M - metric 3 - diameter 6 - length</p>	<p>M3x6 Self Tapping Screw</p>  <p>M - metric 3 - diameter 6 - length</p>	<p>M3x10 Socket Cap Screw</p>  <p>M - metric 3 - diameter 6 - length</p>	<p>3x7 Ball Bearing</p>  <p>M - metric 3 - inside Ø 6 - outside Ø</p>
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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 (Tri-Flow)

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.