

# Twinstar Detail Construction Manual

## Detail Instructions:

This manual has been written to cover the assembly of the Twinstar scale helicopter kit and the ARF Painted version. This is the detail construction of the Twinstar fuselage components that work in cooperation with the scale mechanics instruction manual. For modelers building the kit version, all mechanics fitting (landing gear, muffler exhaust, tail gearbox, fuel system components and radio mounting) must be completed before the fuselage is painted as this will reveal any addition access holes that need to be cut-out. This is much simpler before painting is complete.

## Building Level:









**Level 1.** Beginners will follow all steps and sections in order as they are laid out, this is a longer process that involves building the mechanics completely, running-in the engine and then disassembling the helicopter to install into the completed fuselage.

**Level 2.** Intermediate to expert modelers can complete the fuselage and build & install the helicopter simultaneously using a previously run-in engine.

## Instructional Information

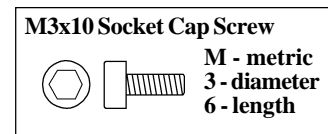
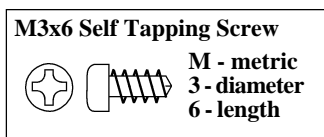
Every attempt has been made to ease the assembly of your helicopter, at each step where there are complex assemblies, there are detailed drawings, photos and written instructions to walk you through each step. Remember to take a few minutes before each step to carefully examine the instructions in order to become familiar with the parts and assembly sequence before beginning that step.

Symbols used to help assist you in building:

	Apply "Goop"		Repeat Step as Specified		Partially Tighten		Helpful Tip
	Special Attention		Apply Threadlock		Purchased Separately		Cut away Shaded Portion

## Hardware Description and Identification:

M3x6 = 3 x 6mm and can refer to screws or fasteners:



## Required Items to complete the Twinstar Fuselage kit:

Pencil & Ruler  
Slow CA Glue  
1/16", 1/8" Drill Bit  
Regular Hand Tools  
Masking Tape  
Lead Weight  
Foam Rubber  
Permanent Marker  
Rubbing Alcohol  
Clear Fuel Proof Paint  
1/4" Paintbrush  
Scissors  
Paint, primer and filler\*  
320 Grit Sandpaper  
30 Minute Epoxy  
Sanding Blocks\*  
Loctite (liquid thread lock)  
Disposable epoxy brushes

## Recommended Tools & Accessories:

Moto Tool w/ sanding accessories  
Remote Glow Plug Connector (CN2222)  
Remote Fueling Valve (CNT4444)  
5.0mm Open End Wrench  
5.5mm Open End Wrench  
7.0mm Open End Wrench

\* For unassembled fuselage kit version.