

SOT170 – SOT184 Propeller Instructions

IMPORTANT NOTICE

This propeller is designed for and its use is restricted to **"Electric Motors Only"**. Operation on 60 class motors is restricted without first adding the "Hi-Pro Hub" modification kit (available in 1992).

The propeller is supplied with three inserts to change the hole size in the hub and properly fit the drive shaft. (3/16", 5 MM or 1/4") Select the insert that fits your drive shaft properly with minimum side play. Install this insert into the hub center. Store the unused inserts so as they are available for use on a future installation of the propeller. (Inserts not used with Sot170-6x4 Propeller)

Your propeller was received as an Assembled Product. The blades have been installed using special Hinge Pins and "E" Rings. Special tools are required to properly install or remove the "E" Rings. This operation should not be attempted unless you have the proper tools and you understand what you are doing! The special tool for installing and removing "E" Rings properly is available through a local Hardware or Automotive tool supply house.

If your Propeller is involved in a Model Crash or Ground Strike of any kind the Propeller must be "Totally Inspected before it is reused". A very close inspection of the total propeller must be done paying special attention. Check the area of the hinge pin itself, the "E" Ring and its installed position. Look for damage or cracks to the molded "Hub or Propeller". **ANY ITEM THAT IS QUESTIONABLE MUST NOT BE REUSED.** It must be **REPLACED**. The Hub has a Special area on the face. (See detail "A"). This area has two uses. First it keeps the propeller blades from coming forward of the normal operating position if the nose of the model is lowered before starting the motor. Second it will be the first area to show damage in the event of an impact or strike to the propeller. You might call it a safety valve to normal operation. During normal operation the propeller never comes in contact with this area.

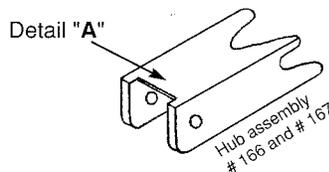
If it becomes necessary to replace a propeller blade, propeller blades should be replaced as pairs. One may be replaced providing the propeller is re-balanced. Replacement propeller blades are available in pairs separately. Hub assemblies are also available and are supplied with all hardware included.

No parts other than those supplied from Sonic- Tronics Inc. are to used on this propeller; hub system or with independently available propeller blades. Any questions about this product or requirements for parts must be handled directly with Sonic- Tronics Inc.

"Safety" is the first consideration in the area of a rotating Propeller.

Keep all small children, hands, fingers and any loose objects that could come in contact with the propeller Clear of this area! Never stand in front of or in line with a rotating propeller. . . Stay behind it, if you must be in the area of operation!

Sonic- Tronics, Inc assumes "no responsibility or liability" for the use of this product whatsoever beyond the replacement or repair at its own discretion. No additional liability is intended or implied



PROPELLER CONVERSION CHART



Folding Prop Shop...

	Factory Built (Stock)	# 166 Hub	# 167 Hub	7" x 4" Blades	8" x 4" Blades	10" x 6" Blades	11" x 7" Blades	12" x 7" Blades	13" x 7 1/2" Blades
7" x 4"	*	*		*					
7 3/8" x 4 1/2"			*	*					
8" x 4"	*	*			*				
8 3/8" x 4 1/2"			*		*				
10" x 6"	*	*				*			
10 3/8" x 6 1/2"			*			*			
11" x 7"	*	*					*		
11 3/8" x 7 1/2"			*				*		
12" x 7"	*	*						*	
12 3/8" x 7 1/2"			*					*	
12 5/8" x 7"		*							*
13" x 7 1/2"	*		*						*

Propeller "Pitch & Diameters" available by interchanging Blade and Hub assemblies.

NOTE. . Our 6" x 4" propeller parts are "not" interchangeable !

BASIC PROPELLER / MOTOR REFERENCE

MOTOR. . .	Direct Drive	Gear Drive
Ferrite 05	7" x 4" to 8" x 4"	11" x 7"
Cobalt 020	6" x 4"	10" x 6"
Cobalt 035	6" x 4"	10" x 6"
Cobalt 05	7" x 4" to 8" x 4"	11" x 7" to 12" x 7 1/2"
Cobalt 05 FAI	7 3/8" x 4 1/2" to 8" x 4"	11" x 7" to 12" x 7 1/2"
Cobalt 15	8" x 4"	11 3/8" x 7 1/2" to 12 5/8" x 7"
Cobalt 25	9" x 6"	12 5/8" x 7" to 13" x 7 1/2"
Cobalt 40	10" x 6"	13" x 7 1/2"
Cobalt 60	13" x 7 1/2"	(not available)

The above information is offered as a basic reference only, as the final performance will be effected by the combination of Motor, Battery and the Propeller used.

Stay up-dated on Electric Flight Products

Our total "Electric Flight Product Catalog" is available to you at "No" cost. Just send us your request and a self addressed stamped business size envelope.



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