DO NOT OPEN RELOAD KIT UNTIL READY TO USE

This Package Contains One Reload Kit:

RMS™ 75MM White Lightning™ Reloadable Motor System

HIGH-POWER RMS

WMSWp 75MM Hardware Data

P/N 03627 & 1 X P/N 03627-1) and motor liner tube (P/N 03035-6). RMS™-75 reload kits do not

NOTE: This reload kit MUST be used with separately packaged M685W propellant grains (5 X

NO. 8 X P/N 03627-1) and motor liner tube (P/N 03035-6). RMS™-75 reload kits do not

NOTE: This reload kit MUST be used with separately packaged M685W propellant grains (5 X

NOTE: This Package Contains One Reload Kit:

RMS™ 75/7680 White Lightning™ Reloadable Motor System

HIGH-POWER RMS

This Package Contains One Reload Kit:

RMS™ 75/7680 White Lightning™ Reloadable Motor System

Chapter 2. Preparation For Flight

Fig.-20 Fig.-21

Fig.-20 Fig.-21

Fig.-18

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White Lighting...
HIGH-POWER RMS™ Assembly and Operation Instructions

READ THIS BEFORE YOU BEGIN:

- Study the illustrations and sequence of assembly. THE SEQUENCE OF ASSEMBLY IS EXTREMELY IMPORTANT. READ ALL INSTRUCTIONS BEFORE USE. USE RMS™ MOTORS AND RELOAD KITS ONLY IN ACCORDANCE WITH ALL INSTRUCTIONS. Failure to follow the instructions and properly install the motor will void warranty and result in severe damage. Failure to follow instructions and properly install the motor will result in severe damage.

- DO NOT USE ANY PARTS OF THE RMS™ SYSTEM THAT ARE DAMAGED IN ANY WAY. If damaged, return parts to manufacturer for replacement or reconditioning.

- DO NOT DISASSEMBLE THE MOTOR IN ANY WAY. Modification of the motor or the related parts could result in internal failure and may require professional assistance. Damage to the motor or the related parts could result in severe damage.

- USE ONLY ACCESSORIES AND RELOAD KITS THAT HAVE BEEN DESIGNED SPECIFICALLY FOR USE WITH AN RMS™ MOTOR. Use of improper components may result in failure and void your warranty. Only use RMS™ accessories and reload kits that are designed specifically for use with your RMS™ motor. DO NOT MODIFY PARTS OR USE PARTS THAT ARE NOT DESIGNED SPECIFICALLY FOR USE WITH YOUR RMS™ MOTOR.

- USE ONLY RELOAD KITS AND MOTOR PARTS THAT HAVE BEEN DESIGNED SPECIFICALLY FOR USE WITH AN RMS™ MOTOR. Use of improper components may result in failure and void your warranty. Only use RMS™ accessories and reload kits that are designed specifically for use with your RMS™ motor. DO NOT MODIFY PARTS OR USE PARTS THAT ARE NOT DESIGNED SPECIFICALLY FOR USE WITH YOUR RMS™ MOTOR.

- DO NOT REUSE ANY OF THE REMOVABLE PARTS OF THE RMS™ RELOAD KIT. This includes the base, nozzle, and rings. These components have been designed to be used once and must be discarded after use. Please use new motor before installing new components and retaining your motor warranty.

- Save the reload kit plastic bag and grain boxes for the used reload parts. Dispose of bag, boxes and parts properly.

Chapter 1. Forward Closure Assembly

1-1. Fig. 1: NOTE: 7/8 inch hardware shown in photos, but assembly process is the same for this reload. Apply a light coat of Syncro™ Super Lube™ or other grease to all threads, sealing surfaces and o-rings. This will facilitate assembly and prevent the threads from seizing.

1-2. Fig. 2: Insert the smoke charge element into the smoke charge insulator until it is flush with both ends of the insulator.

1-3. Fig. 3: Apply a liberal amount of grease to one end of the smoke charge element and the outside of the smoke charge insulator.

1-4. Fig. 4: Insert the greased end of the smoke charge assembly into the smoke charge cavity of the forward closure until it is seated against the forward end of the cavity. Set the completed forward closure assembly aside.

Chapter 2. Liner & Case Assembly

2-1. Fig. 5: Dispense approximately 20 grams of 15 or 30 minute epoxy and mix thoroughly.

2-2. Fig. 6: Apply epoxy to one end of the 1/4 inch chamfered 8.52 grams. NOTE: The chamfered end of the 1/4 grain face is to face panel and is well coated with epoxy.

2-3. Fig. 7: Stack the 1.5 & 2.0 grooves together with the exposed ends facing each other and the cones in visual alignment. NOTE: The chamfered end of the 2.0 inch grain should be facing the table surface.

2-4. Fig. 8: Repeat steps 2-1 through 2-3 for the 3.0 and 4.0, and the 5.0 and 6.0 grain. You should now have three (3) sets of two (2) grains, each bonded together. Allow to cure completely before proceeding to the next step.

2-5. Fig. 9: Mix and apply epoxy to the top surface of the 2.0 inch (un chamfered) grain. Then slide the liner over the two spaced 2.0 grains.

2-6. Fig. 10: Install the nose cone into the 1.5 inch chamfered grain and secure with epoxy. NOTE: The aft grain of the o-ring shown in the photo is not used with this reload.

2-7. Fig. 11: Stand the liner assembly on the nose cone. Ensure that the nose cone flange is seated against the end of the liner.

2-8. Fig. 12: Mix and apply epoxy to both ends of the 3.0 and 4.0 grain stack. NOTE: Single grain shown in Fig. 10 and Fig. 12.

2-9. Fig. 13: Place the greased forward seal o-ring (5/32" thick X 3-5/16" O.D.) into the groove in the forward seal disk.

2-10. Fig. 14: Install the reduced diameter (o-ring) end of the seal disk assembly into the open end of the liner until seated and flush.

2-11. Fig. 15: Apply a liberal amount of grease to the upper 2-3" of the liner and the top surface of the forward seal disk.

Chapter 2. Liner & Case Assembly (Cont'd)

2-12. Fig. 16: Mix and apply epoxy to both ends of the 5.0 and 6.0 grain stack.

2-13. Fig. 17: Slide the motor casing over the liner.