1. Apply a light coat of grease to the 3 O-rings and all threaded surfaces. This will facilitate assembly and prevent the threads from seizing. NOTE: When all the grease that comes with the motor has been consumed, use petroleum jelly or similar grease.

2. Using your fingernail or a blunt object, remove the burr (rough raised edge) from both inside and outside ends of the delay insulator tube by pressing or scraping and rotating the tube at the same time.

3. Fig-1: If supplied with the reload kit, press the delay spacer into one end of the delay insulator tube until FLUSH with the end of the tube.

4. Fig-1: Press the delay element into the other end of the delay insulator tube until it is FLUSH with the other end of the tube.

5. Fig-2: Place the greased 5/8” O.D. x 3/32” thick o-ring in the forward closure, seated against the forward end of the delay cavity.

6. Fig-3: Insert the delay charge/delay insulator assembly into the delay cavity until it is seated against the delay o-ring.
First Aid
For a minor burn, apply a burn ointment. For a severe burn, immerse the burned area in ice water at once and see a physician as quickly as possible. In the unlikely event of oral ingestion of the propellant, induce vomiting and see a physician as quickly as possible. The AeroTech/RCS hobby reload delay kit pyrotechnic components consists primarily of ammonium perchlorate and a rubber-like plastic elastomer.

Disposal
Damaged or defective hobby reload delay kits should be returned to RCS.

Fire Safety
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AeroTech Division
RCS Rocket Motor Components, Inc.
Cedar City, UT 84720
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<td>03058</td>
<td>Delay spacer (0.344” long white paper ring)</td>
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29MM RMS™ HOBBY RELOAD DELAY KIT (HDK™)

HDK Type: HDK-19

For Use With The Following RMS™ Reload Kit(s):
E16-4W, G76-10G

This HDK Contains The Following Parts:

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<td>Delay spacer (0.188&quot; long magenta paper ring)</td>
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29MM RMS™ HOBBY RELOAD DELAY KIT (HDK™)

HDK Type: HDK-21

For Use With The Following RMS™ Reload Kit(s): E16-7W, F40-7W, G64-10W, G71-10R

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<td>HDK delay element (0.657&quot; long solid part)</td>
<td>3</td>
</tr>
<tr>
<td>03050</td>
<td>Delay spacer (0.094&quot; long black paper ring)</td>
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First Aid
For a minor burn, apply a burn ointment. For a severe burn, immerse the burned area in ice water at once and see a physician as quickly as possible. In the unlikely event of oral ingestion of the propellant, induce vomiting and see a physician as quickly as possible. The AeroTech/RCS hobby reload delay kit pyrotechnic components consists primarily of ammonium perchlorate and a rubber-like plastic elastomer.

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## 29MM RMS™ HOBBY RELOAD DELAY KIT (HDK™)

### HDK Type: HDK-23

**For Use With The Following RMS™ Reload Kit(s):**

**F22-7J**

#### This HDK Contains The Following Parts:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>03224</td>
<td>HDK “slow” delay element (0.750” long solid part, no spacer)</td>
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</tr>
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</table>

**NOTE:** The delay o-ring, delay insulator and other parts mentioned in the HDK instructions are supplied in your RMS™ reload kit, RMS Hardware not included.

**NOTE:** SALE TO PERSONS UNDER 18 YEARS OF AGE PROHIBITED BY FEDERAL LAW. WARNING-FLAMMABLE: Read Instructions Before Use. KEEP OUT OF REACH OF CHILDREN. DO NOT SMOKE when loading RMS motors or use in the vicinity of open flames.

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### 29MM RMS™ HOBBY RELOAD DELAY KIT (HDK™)

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**F22-7J**

#### This HDK Contains The Following Parts:

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### First Aid

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### Disposal

Damaged or defective hobby reload delay kits should be returned to RCS.

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Tests show that the pyrotechnic components of RMS™ hobby reload delay kits will not explode in fires and normally will not ignite unless subjected to direct flame and then will burn slowly. Use water to fight any fires in which AeroTech/RCS RMS™ hobby reload delay kit pyrotechnic components may become involved: Direct the water at the AeroTech/RCS RMS™ hobby reload delay kit pyrotechnic components to keep them below their 550 deg. F autoignition temperature. Foam and carbon dioxide fire extinguishers will NOT extinguish burning propellants of the type used in RMS™ hobby reload delay kit pyrotechnic components. Keep hobby reload delay kit pyrotechnic components away from flames, sources of heat and flammable materials.

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AeroTech Division

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### Legal

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29MM RMS™ HOBBY RELOAD DELAY KIT (HDK™)

**HDK Type: HDK-25**

For Use With The Following RMS™ Reload Kit(s): 676-76

This HDK Contains The Following Parts:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>03208</td>
<td>HDK delay element (0.469&quot; long solid part)</td>
<td>3</td>
</tr>
<tr>
<td>03057</td>
<td>Delay spacer (0.282&quot; long silver paper ring)</td>
<td>3</td>
</tr>
</tbody>
</table>

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