**29MM RMS-PLUS™ RELOAD DELAY KIT (RDK) ASSEMBLY INSTRUCTIONS**

**NOTE:** Follow these instructions during forward closure/delay charge assembly of an AeroTech RMS™ 29mm high-power motor when using the enclosed RMS-Plus™ RDK. DO NOT use any of the delay components of older-style RMS reload kits when using this RDK!

1-1. Apply a light coat of Synco™ Super Lube™ or other grease to all threads and o-rings. This will facilitate assembly and prevents the threads from seizing.

1-2. **Fig.-1:** Chamfer both inner edges of the delay insulator with your fingernail. Assemble the RMS-Plus™ delay element, delay insulator, aft delay spacer (not included with RDK-08) and delay o-ring as shown. **NOTE:** It is not necessary to tape the delay element or delay insulator, the hot gas seal is provided by the delay o-ring alone.

1-3. **Fig.-2:** Insert the forward delay spacer (13/16” O.D. neoprene washer) into the delay cavity until it is seated against the forward end of the cavity. Apply a light film of grease to the inner circumference of the delay cavity (but not the forward end of the cavity).

1-4. **Fig.-3:** Insert the delay charge assembly shown in Fig.-1 into the delay cavity, o-ring end first, until it is seated against the forward delay spacer. **NOTE:** When using a plugged forward closure ONLY, fill the opening in the forward delay spacer with grease prior to installing the delay charge assembly.

1-5. Complete the remainder of motor assembly according to the original instructions that accompanied your particular reload kit.

---

**29MM RMS-PLUS™ RELOAD DELAY KIT (RDK) ASSEMBLY INSTRUCTIONS**

**NOTE:** Follow these instructions during forward closure/delay charge assembly of an AeroTech RMS™ 29mm high-power motor when using the enclosed RMS-Plus™ RDK. DO NOT use any of the delay components of older-style RMS reload kits when using this RDK!

1-1. Apply a light coat of Synco™ Super Lube™ or other grease to all threads and o-rings. This will facilitate assembly and prevents the threads from seizing.

1-2. **Fig.-1:** Chamfer both inner edges of the delay insulator with your fingernail. Assemble the RMS-Plus™ delay element, delay insulator, aft delay spacer (not included with RDK-08) and delay o-ring as shown. **NOTE:** It is not necessary to tape the delay element or delay insulator, the hot gas seal is provided by the delay o-ring alone.

1-3. **Fig.-2:** Insert the forward delay spacer (13/16” O.D. neoprene washer) into the delay cavity until it is seated against the forward end of the cavity. Apply a light film of grease to the inner circumference of the delay cavity (but not the forward end of the cavity).

1-4. **Fig.-3:** Insert the delay charge assembly shown in Fig.-1 into the delay cavity, o-ring end first, until it is seated against the forward delay spacer. **NOTE:** When using a plugged forward closure ONLY, fill the opening in the forward delay spacer with grease prior to installing the delay charge assembly.

1-5. Complete the remainder of motor assembly according to the original instructions that accompanied your particular reload kit.
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 reload delay kit pyrotechnic components consists primarily of ammonium perchlorate and a rubber-like plastic elastomer.

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

Fire Safety
Tests show that the pyrotechnic components of RMS™ 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™ reload delay kit pyrotechnic components may become involved: Direct the water at the AeroTech/RCS RMS™ 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™ reload delay kit pyrotechnic components. Keep reload delay kit pyrotechnic components away from flames, sources of heat and flammable materials.

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AeroTech Division
RCS Rocket Motor Components, Inc.
Cedar City, UT 84720
www.aerotech-rocketry.com

29MM HIGH-POWER RMS-PLUS™
RELOAD DELAY KIT (RDK)

AeroTech Product No: RDK-02PLUS
For Use With The Following RMS™ Reload Kits ONLY: F62T-S, G104T-S, H165R-S

This RDK Contains The Following Parts:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>03359</td>
<td>RMS-Plus™ delay element (.375” long grey solid part)</td>
<td>3</td>
</tr>
<tr>
<td>03326</td>
<td>Aft delay spacer (.344” long red paper ring)</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: The delay o-ring, delay insulator and forward delay spacer mentioned in the RDK instructions now come supplied with all RMS™ reload part kits.

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. FOR USE ONLY BY CERTIFIED HIGH-POWER USERS 18 YEARS OF AGE OR OLDER. DO NOT SMOKE when loading these motors or use in the vicinity of open flames.

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

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 reload delay kit pyrotechnic components consists primarily of ammonium perchlorate and a rubber-like plastic elastomer.

Fire Safety
Tests show that the pyrotechnic components of RMS™ 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™ reload delay kit pyrotechnic components may become involved: Direct the water at the AeroTech/RCS RMS™ 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™ reload delay kit pyrotechnic components. Keep reload delay kit pyrotechnic components away from flames, sources of heat and flammable materials.

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AeroTech Product No: RDK-05PLUS
For Use With The Following RMS™ Reload Kits ONLY:


This RDK Contains The Following Parts:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>03368</td>
<td>RMS-Plus™ delay element (.563&quot; long grey solid part)</td>
<td>3</td>
</tr>
<tr>
<td>03312</td>
<td>Aft delay spacer (.156&quot; long aqua paper ring)</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: The delay o-ring, delay insulator and forward delay spacer mentioned in the RDK instructions now come supplied with all RMS™ reload part kits.

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. FOR USE ONLY BY CERTIFIED HIGH-POWER USERS 18 YEARS OF AGE OR OLDER. DO NOT SMOKE when loading these motors or use in the vicinity of open flames.

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<table>
<thead>
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<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>03368</td>
<td>RMS-Plus™ delay element (.563&quot; long grey solid part)</td>
<td>3</td>
</tr>
<tr>
<td>03312</td>
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For Use With The Following RMS™ Reload Kits ONLY:

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<table>
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<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
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<tbody>
<tr>
<td>03369</td>
<td>RMS-Plus™ delay element (.594&quot; long grey solid part)</td>
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<td>03311</td>
<td>Aft delay spacer (.125&quot; long blue paper ring)</td>
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AeroTech Product No: RDK-07PLUS
For Use With The Following RMS™ Reload Kits ONLY:

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<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
<td>03375</td>
<td>RMS-Plus™ delay element (.656&quot; long grey solid part)</td>
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</tr>
<tr>
<td>03305</td>
<td>Aft delay spacer (.063&quot; long black paper ring)</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: The delay o-ring, delay insulator and forward delay spacer mentioned in the RDK instructions now come supplied with all RMS™ reload part kits.

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, FOR USE ONLY BY CERTIFIED HIGH-POWER USERS 18 YEARS OF AGE OR OLDER. DO NOT SMOKe when loading these motors or use in the vicinity of open flames.

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 reload delay kit pyrotechnic components consists primarily of ammonium perchlorate and a rubber-like plastic elastomer.

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

Fire Safety
Tests show that the pyrotechnic components of RMS™ 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™ reload delay kit pyrotechnic components may become involved: Direct the water at the AeroTech/RCS RMS™ 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™ reload delay kit pyrotechnic components. Keep reload delay kit pyrotechnic components away from flames, sources of heat and flammable materials.

Disclaimer and Warranty
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AeroTech Product No: RDK-07PLUS
For Use With The Following RMS™ Reload Kits ONLY:

This RDK Contains The Following Parts:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>03375</td>
<td>RMS-Plus™ delay element (.656&quot; long grey solid part)</td>
<td>3</td>
</tr>
<tr>
<td>03305</td>
<td>Aft delay spacer (.063&quot; long black paper ring)</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: The delay o-ring, delay insulator and forward delay spacer mentioned in the RDK instructions now come supplied with all RMS™ reload part kits.

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**First Aid**
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**Disposal**
Damaged or defective reload delay kits should be returned to RCS.

**Fire Safety**
Tests show that the pyrotechnic components of RMS™ 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™ reload delay kit pyrotechnic components may become involved: Direct the water at the AeroTech/RCS RMS™ 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™ reload delay kit pyrotechnic components. Keep reload delay kit pyrotechnic components away from flames, sources of heat and flammable materials.

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<tbody>
<tr>
<td>03378</td>
<td>RMS-Plus™ delay element (.719” long grey solid part)</td>
<td>3</td>
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</tbody>
</table>

**NOTE:** The delay o-ring, delay insulator and forward delay spacer mentioned in the RDK instructions now come supplied with all RMS™ reload part kits.

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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 reload delay kit pyrotechnic components consists primarily of ammonium perchlorate and a rubber-like plastic elastomer.

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29MM HIGH-POWER RMS-PLUS™ RELOAD DELAY KIT (RDK)

AeroTech Product No: RDK-18PLUS
For Use With The Following RMS™ Reload Kits ONLY:

This RDK Contains The Following Parts:

<table>
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<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>03366</td>
<td>RMS-Plus™ delay element (.500” long grey solid part)</td>
<td>3</td>
</tr>
<tr>
<td>03317</td>
<td>Aft delay spacer (.219” long yellow paper ring)</td>
<td>3</td>
</tr>
</tbody>
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NOTE: The delay o-ring, delay insulator and forward delay spacer mentioned in the RDK instructions now come supplied with all RMS™ reload part kits.

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Disposal
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AeroTech Division
RCS Rocket Motor Components, Inc.
Cedar City, UT 84720
www.aerotech-rocketry.com

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AeroTech Product No: RDK-38PLUS
For Use With The Following RMS™ Reload Kits ONLY: H250G-M

This RDK Contains The Following Parts:

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<tr>
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<tbody>
<tr>
<td>03360</td>
<td>RMS-Plus™ delay element (.406&quot; long grey solid part)</td>
<td>3</td>
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<td>03323</td>
<td>Aft delay spacer (.312&quot; long pink paper ring)</td>
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