Introduction

Congratulations on your selection of the Frankford Arsenal Super charger™ Powder Measure. The Super charger Powder Measure is the end result of years of research and development and has been produced under rigid manufacturing and quality control standards, resulting in one of the finest powder measures available to reloaders today. The unique angled frame design is engineered to allow the rotor cutting edges to cut cleanly rather than crush individual powder grains for more consistent powder charges. The Super charger Powder Measure accomplishes this over a shorter range of motion than many so-called “benchrest” type powder measures in today’s market. In addition, this unique design incorporates the most desirable powder measure features demanded by today’s advanced reloader. With reasonable care and periodic cleaning, your new powder measure should provide you with years of dependable service.

Disclaimer

Since Frankford Arsenal has no control over the choice of reloading components (i.e., cases, bullets, primers, and powder), the manner in which they are assembled, the use of the powder measure, or the firearms in which the resulting reloaded ammunition may be used, no responsibility, either expressed or implied, is assumed for the use of ammunition reloaded with this powder measure.

Warning

Never use rotary powder measures for dispensing black powder, Pyrodex, or other black powder substitutes. These powders are sensitive to impact. Operation of the rotor handle will crush black powder granules between the sharp edges of the steel rotor and the powder measure frame and can potentially ignite the powder causing all the powder in the powder measure to explode, resulting in property damage, serious injury, or death.

Mounting and Assembly

Your new Super charger Powder Measure is shipped completely assembled and ready to use with the exception of the clear drop tube extension and the drop tube nozzles. The powder measure should be mounted securely to a solid shelf or bench. Rigid mounting of the powder measure is essential for consistent charges, particularly with coarse grained powders. You should use a well-braced shelf or the edge of a solid bench that is not subject to accidental jarring or vibration. The shelf or bench top should be rigid and at least 3/4” thick.

Mount and assemble the powder measure as follows.

- Carefully position the shelf mount bracket against the edge of the bench or shelf in a convenient location. If using the bench mount stand, position the stand so the bend in the base is even with the front edge of the bench top in order to provide clearance for the clear drop tube extension.
- Mark the position of the mounting holes using a pencil or punch.
- Drill two mounting holes in the edge of the shelf or the bench top using a 1/8” to 9/64” drill bit.
- Secure the powder measure mounting bracket or stand to the shelf or bench with the two #12 Phillips wood screws (provided) using a #3 Phillips screwdriver.
- If using the bench mount stand, remove the drop tube adapter from the shelf mount bracket using a 1-1/8” box end wrench or socket. Reinstall the drop tube adapter onto the bench mount bracket.
- The powder measure can now be slipped over the drop tube that has been secured to the mounting bracket or stand. The drop tube adaptor used in conjunction with the mounting bracket or stand allows for easy removal of the powder measure to change powders or empty, and allows the user to align the
measure at any desired angle.
• Secure the powder measure to the drop tube adaptor by tightening the body lock screw.
• Detach the nozzles from the mold trees and slip the pre-lubricated O-rings over the small end of the clear drop tube extension and each nozzle. Roll the O-rings downward until they snap in place into the O-ring groove found on each nozzle. Note each nozzle has the caliber size molded into it. Match the caliber size on the nozzle to that shown on the storage box lid. Insert the completed nozzles (large end pointing downward) into the appropriate cavity in the storage box.
• Powder measure components are covered in a rust preventative to protect them from corrosion during shipping. To prevent powder from sticking to these components, this rust preventative must be removed prior to use. Remove the powder measure from the drop tube adaptor and disassemble the powder measure by loosening the knurled micrometer lock screw and the rotor/micrometer lock screw. The rotor/micrometer lock screw requires a 3/32” hex key (provided). Slide the micrometer out of the rotor and slide the rotor out of the powder measure body. Using isopropyl alcohol (or other suitable degreaser), thoroughly clean the inside of the drop tube, the outside of the rotor, the rotor cavity, the rotor bearing surfaces, and the top of the rifle micrometer metering screw. The top of the pistol micrometer metering screw and metering cavity must also be cleaned with a cotton swap soaked in alcohol. Reinstall the rotor and micrometer as provided in the instructions below.

**Powder Measure Setup and Adjustment**

The Super charger Powder Measure dispenses powder by volume rather than by weight. Always use an accurate and reliable powder scale in conjunction with the powder measure to set the powder measure micrometer for the desired powder charge weight. Set up and adjust the Super charger Powder Measure as follows:

1. Verify that the powder measure hopper and metering chamber are empty and free from any loose powder before attempting to use it. If there is powder in the measure and the powder can be identified, return it to the original factory container. If not, empty into an appropriate container and discard in a safe manner.
2. Select a proper load combination (powder, powder charge weight, and bullet weight) from reliable (published) load data.
3. Select and install the correct micrometer (rifle or pistol micrometer) for your specific powder and load.

The rifle or large micrometer is designed for medium to large capacity rifle cartridges that use ball or extruded powders. The pistol micrometer has a smaller metering chamber designed specifically for pistol and small capacity rifle cartridges that use ball or flake powders. To remove a micrometer, loosen the micrometer lock screw (the knurled screw on the micrometer body) and then the rotor/micrometer lock screw (located on the left side of the rotor). The rotor/micrometer lock screw will require a 3/32” hex key (provided). After loosening the screw, slide out the existing micrometer.

To install the rifle micrometer, loosen the knurled micrometer lock screw. Then rotate the micrometer thimble, while holding the micrometer body stationary, until the micrometer assembly is zeroed (refer to Figure 1). With the rotor handle positioned parallel to the bench or shelf top, slide the micrometer into the rotor cavity until the metering screw bottoms out against the frame. At this point the beveled edge of the micrometer body should be approximately even with the outside edge of the powder measure body. The graduated scale on the micrometer body should be facing upward with the micrometer lock screw positioned to the left. Tighten the rotor/micrometer lock screw to secure the micrometer. Turn the micrometer thimble counterclockwise slightly so that no drag is felt when the rotor is cycled.

To install and zero the pistol micrometer, the micrometer body should be inserted fully into the rotor cavity until...
it bottoms out against the powder measure frame.

Both the rifle and pistol micrometers are zeroed at the factory. However, if for any reason the micrometers fail to zero or are ever disassembled, they must be re-zeroed prior to use as follows:

- Loosen the knurled micrometer lock screw and back the micrometer thimble away several turns from the zero point.
- With the rotor handle lifted to the midpoint of its travel, install the desired micrometer as follows. If using the pistol micrometer slide the micrometer into the rotor cavity until it bottoms out against the frame. If using the rifle micrometer, slide the micrometer into the rotor cavity until the beveled edge is approximately even with the outside edge of the powder measure body.
- Tighten the rotor/micrometer lock screw.
- Screw the micrometer thimble inward (gently) until the metering screw just bottoms out against the powder measure frame. Tighten the micrometer lock screw.
- Loosen the thimble set screw and reposition the thimble until it is zeroed. Tighten the thimble set screw, loosen the micrometer lock screw, and screw the thimble outward (counterclockwise) slightly so that the metering screw does not drag when the rotor is cycled.
- The micrometer is now zeroed.

4. Fill the powder hopper with the proper powder. The powder hopper should be filled well above the top of the baffle (at least half full).

⚠️ Warning

Do not remove or re-orient the hopper baffle. Its location and configuration have been determined experimentally and have been optimized to provide consistent powder charges. Removing or re-orienting the baffle will degrade powder measure accuracy.

5. Gently tap the hopper tube with a your finger several times to help settle the powder in the hopper.
6. Select a drop tube nozzle that provides the correct fit for the caliber you are reloading, and insert the nozzle into the bottom of the drop tube adapter until it comes to a stop. Note the drop tube nozzles fit the following calibers:

<table>
<thead>
<tr>
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<th>Use Nozzle</th>
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<tr>
<td>17 Cal.</td>
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<tr>
<td>22 Cal.</td>
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</tr>
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<td>6mm</td>
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<td>25 Cal.</td>
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<tr>
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<tr>
<td>30 Cal., 7.5mm, 7.62mm, 303, 7.65mm, &amp; 32 Cal.</td>
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<table>
<thead>
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<th>Caliber</th>
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<tr>
<td>8mm &amp; 338</td>
<td>8mm</td>
</tr>
<tr>
<td>348, 9mm, 38, 35, &amp; 9.3mm</td>
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</tr>
<tr>
<td>375</td>
<td>375</td>
</tr>
<tr>
<td>10mm &amp; 40 Cal</td>
<td>40</td>
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<tr>
<td>41Cal.</td>
<td>41</td>
</tr>
<tr>
<td>44 Cal.</td>
<td>44</td>
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<tr>
<td>45 Cal.</td>
<td>45</td>
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<tr>
<td>45 Cal.</td>
<td>45</td>
</tr>
<tr>
<td>22 through 30 Cal. (universal)</td>
<td>22+</td>
</tr>
<tr>
<td>30 through 50 Cal. (universal)</td>
<td>30+</td>
</tr>
</tbody>
</table>

7. If you intend to use the clear drop tube extension, insert the chosen drop tube nozzle in the end of the drop tube extension instead of the drop tube adapter. Then insert the drop tube extension into the bottom of the drop tube adapter. NOTE: If you are using the Benchmount stand, you must also use the clear drop tube extension in order to have sufficient clearance to charge cases from a loading block.
8. Zero your powder scale, then set the powder scale for the desired charge weight.
9. If you have not used the powder measure or the chosen powder before, guess at an initial micrometer setting or set the powder measure micrometer to approximately the mid-point of its travel. Be sure to loosen the knurled lock screw prior to setting the micrometer.
10. To throw a powder charge, simply raise and lower the powder measure handle. Operate the powder measure handle slowly and methodically; cycling it first upward until it comes to a stop, pausing to allow
the metering chamber to empty, and then downward until it comes to a stop, pausing to allow the metering chamber to fill. You will be able to see the powder move in the hopper while the metering chamber is filling. For a detailed discussion of proper powder charging methods, refer to the section entitled “Powder Charging Technique”.

11. Throw a charge and weigh it on your powder scale. Note whether it is overweight or underweight and adjust the micrometer setting as needed. Turning the micrometer thimble outward (counterclockwise) to a higher number on the graduated scale will increase the charge volume. Turning the micrometer thimble inward (clockwise) to a lower number will decrease the charge volume. Always adjust the micrometer with the operating handle in the down position.

12. Throw another charge and weigh it. Readjust the micrometer as needed. Continue this process until you reach the desired charge weight.

13. Lock the micrometer metering screw in place with the knurled lock screw and throw another charge to verify the micrometer setting and powder charge weight consistency.

14. Write down the final micrometer setting, powder type, and actual charge weight in your reloading notes for future reference. Note the engraved graduations range from 0 to 280 on the micrometer body and 0 to 10 on the thimble, with each tick mark on the thimble equivalent to 0.2 on the graduation scale. Since one revolution of the micrometer thimble is equivalent to 10, the micrometer in Figure 2 reads as 175.4.

**Warning**

The laser engraved graduations on the powder measure micrometers are for reference only and do not indicate the actual charge weight (or grains) of powder.

**Powder Charging Technique**

A cartridge case may be charged by placing the case mouth in direct contact with the drop tube nozzle and then cycling the operating handle. It is recommended that the powder measure operating handle always be cycled in a smooth and consistent manner. The handle should be cycled at a slow to moderate speed, coming to a full stop at the end of each direction of travel, **without jarring the powder measure unnecessarily**. The operating handle should be cycled with the same amount of force and with the same motion each time in order to minimize variations in powder charges. If a large charge is thrown, you should pause briefly at the top and bottom of the handle stroke to allow sufficient time for the metering chamber to empty and then fill. You will be able to see the powder flow from the hopper while the chamber is filling.

You will often read in reloading literature that some experienced reloaders prefer to lightly rap or bump the operating handle of the powder measure against the limits of its travel to help dislodge and/or keep powder from bridging. Rapping (or bumping) should only be performed when using coarse-grained (extruded) powders and should only be done lightly and uniformly. Heavy-handed banging of the operating handle will only result in erratic charges and may damage the powder measure.

It is recommended that you not rap the powder measure at the top and bottom of the operating cycle when using ball or flake type powders. Frankford Arsenal has determined through testing that the accuracy of the Super charger Powder Measure actually decreases if rapped (or bumped) when using these powder types.

Any charging style or technique you may later develop should be used with consistency for maximum accuracy from your handloads. If at any time you change your charging routine, weigh a few powder charges to verify your micrometer settings. They may change slightly due to the change in your charging routine.
In any rotary powder measure there is a slicing or shearing action that occurs when powder granules are caught between the cutting edges of the rotor and the body of the measure, as the operating handle is cycled. This shearing action typically takes place on only 1 or 2 powder granules and can be felt as a slight increase in resistance as the granules are cut. Coarse-grained extruded powders usually offer the most resistance and are the toughest to cut. When cutting any coarse-grained powder, a slight jarring of the powder measure will occur which will result in slight variations in powder charge weight. This jarring effect can be minimized by modifying your charging technique so that powder cutting is accomplished with the least amount of disturbance to the powder measure while still maintaining a smooth uniform rhythm. One of the best methods is to place your index finger along the top edge of the stamped handle with your thumb on the inside of the handle and grasp the plastic handle knob with the rest of your fingers. By cycling the operating handle in this fashion a good operator can achieve charges within a fraction of a percent of the desired charge, with even the coarsest of powders.

It is recommended that when throwing maximum or near maximum charges that the reloader throw a light charge and work up to the desired charge weight using a powder trickler in conjunction with a powder scale.

While throwing powder charges, discard any that feel too rough or too smooth. It is not unusual to encounter some resistance due to the cutting of individual powder granules. However, if the powder measure hangs up in the middle of a stroke, dump that charge back into the hopper and not into the case. The resultant powder charge will either be too light or too heavy.

Check the micrometer setting intermittently during each reloading session to determine if anything has shifted or changed. If it has, one of the lock screws may not have been tightened sufficiently, resulting in erratic charges. It is a good practice to routinely weigh a charge on a powder scale at initial intervals of 10 to 20 cases in order to verify that the charge weight has not changed. This interval may be increased once you gain confidence in the powder measure and your powder-charging technique.

After charging the cases (prior to bullet seating), perform a visual inspection of the powder level in each case to verify that powder levels are uniform. With good lighting, you can easily detect even slight variations in powder levels, and will quickly pick out an empty case or one that has been double charged.

Emptying the Measure

It is not necessary to empty the powder measure when you change charges unless a different powder is required. Never store or leave powder in the powder measure for extended periods of time since the powder may be spilled, mixed with another powder, or become misidentified. In addition, exposure to sunlight and humidity can degrade smokeless powders. Always empty unused powder back into the original factory container when done reloading. Be careful to get the powder into the right container. In order to avoid potential mixing of powders, an experienced reloader never has more than one container of powder out at a time.

Empty the powder measure as follows.

- Raise the rotor handle slightly so that the micrometer is elevated sufficiently to gain access to the body lock screw.
- Unscrew the body lock screw two full turns and slide the powder measure upward off of the mounted drop tube adapter.
- Remove the hopper cap and pour the powder from the hopper back into the original factory container using an appropriate funnel.
- There will be some powder trapped under the baffle. This trapped powder can be removed by cycling the operating handle until empty. Catch the trapped powder in a convenient container. Because the chamber in the Pistol Micrometer is so small, it is recommended that you loosen the rotor/micrometer lock screw with a 3/32” hex key, slide the micrometer out of the rotor about an inch, re-tighten the lock screw, and cycle the handle until
empty if the pistol micrometer is installed. Be sure to re-zero the micrometer for the next reloading session. Reinstall the hopper cap to keep dust out of the powder measure when not in use.

**Maintenance**

Plastic and painted surfaces may be cleaned with a damp cloth. Never use petroleum based solvents to clean any plastic components (i.e. handle knob, powder hopper, or drop tube nozzles). If rust spots appear on unpainted external surfaces, swab with gun oil and wipe dry. If the powder measure is to be used in a damp area, all non-painted external surfaces may be protected with a very thin film of oil, applied with a soft cloth.

Occasionally, the micrometer, clear drop tube extension and drop tube nozzle O-rings may require lubrication to reduce drag and restore the original feel. To gain access to the micrometer O-ring, simply loosen the thimble set screw with a 3/32” hex key and slide the thimble off the micrometer assembly. It is recommended that you use silicone based grease for this application. Only a very light film is required. The micrometer metering screw threads should also be lubricated with grease, as needed, to prevent galling. Once lubricated reassemble the micrometer and re-zero.

**Troubleshooting Guide**

A summary of common reloading problems and causes are listed below to assist you in solving problems you may encounter using the Supercharger Powder Measure.

1. Problem: Powder measure body rotates or wobbles when rotor is cycled.
   Remedy:
   • Tighten powder measure body lock screw to secure body to drop tube adapter.
   • Tighten drop tube adapter.

2. Problem: Rotor will not cycle.
   Remedy:
   • Micrometer installed incorrectly. Due to the internal design of the powder measure body casting, it is important that either micrometer be installed with the rotor handle positioned parallel to the bench or shelf top. If the micrometer is installed at either the top or bottom, it can potentially lock-up the powder measure.

3. Problem: Rotor is tight, sticks, or squeaks when cycled.
   Remedy:
   • Rotor needs to be lubricated. Some powdered graphite or similar dry lubricant may be used to smooth operation. Never use oil or grease as a lubricant on the rotor or powder measure body bearing surfaces.

4. Problem: Rotor does not cycle smoothly and requires more force than usual to operate.
   Remedy:
   • An accumulation of dust (or powder fines) between the rotor and body may cause a slight drag after extended use with some fine grained powders. If this begins to interfere with smooth operation, disassemble the powder measure and wipe the rotor and frame bearing surfaces with a soft cloth. If it does not wipe away readily, try dampening the cloth with isopropyl alcohol. Do not use abrasive cleaners of any kind.

5. Problem: Micrometer will not turn or is hard to turn.
   Remedy:
   • Loosen knurled micrometer lock screw.

6. Problem: Rifle micrometer cannot be inserted into the rotor cavity.
   Remedy:
   • Loosen knurled micrometer lock screw.
7. Problem: Micrometer does not zero.
   Remedy:
   • Empty the powder measure and remove micrometer. Reinstall and zero the micrometer in accordance with
     instructions in section entitled “Powder Measure Setup and Adjustment”.

8. Problem: Static electricity causing powder to adhere to powder hopper walls.
   Remedy:
   • Rubbing the outside of the plastic hopper tube with a laundry dryer sheet (such as Cling Free or Bounce) can
     easily eliminate static electricity. Do not put the dryer sheet inside the hopper, as this will contaminate the
     powder. After the static is gone, you may wipe down the hopper with a clean rag to remove any residue left by
     the dryer sheet.

9. Problem: Powder charges are erratic.
   Possible Cause and Remedy:
   • Powder level in hopper too low. Maintain powder level well above top of baffle.
   • High humidity. Reload in an air-conditioned environment or when the relative humidity is lower. Store powder
     in a cool and dry location.
   • Static Electricity. Rub the outside of the plastic hopper tube with a laundry dryer sheet (such as Cling Free or
     Bounce).
   • Improper powder charging technique. Review section entitled “Powder Charging Technique”.

10. Problem: Powder charge weight different than last used (at same setting).
    Possible Cause and Remedy:
    • Wrong micrometer installed. Install correct micrometer.
    • Wrong powder. Verify powder brand and type being used.
    • Different powder lot. Verify powder lot number.
    • Micrometer improperly zeroed. Empty powder measure, remove micrometer assembly, and reinstall and zero
      in accordance with section entitled “Powder Measure Setup and Adjustment.”

    Possible Cause and Remedy:
    • Cycling the rotor handle too quickly. Slow down.
    • Static electricity. Rub the outside of the plastic hopper tube with a laundry dryer sheet (such as Cling Free or
      Bounce).
    • Although the drop tube nozzles are caliber specific, some extruded powders may be too coarse to flow
      properly through the chosen drop tube nozzle. If this occurs you have two options:
      1. Switch to a different type of powder.
      2. Switch to a drop tube nozzle with a larger bore diameter. If a larger nozzle will allow the powder to
         flow consistently, then throw powder directly into your scale powder pan and charge cases using a
         powder funnel.

    Possible Cause and Remedy:
    • Drop tube nozzle not installed. Install proper drop tube nozzle for caliber being loaded.
    • Wrong drop tube nozzle installed. Install correct drop tube nozzle for caliber being loaded.
    • Case not fully inserted into drop tube nozzle. Make sure case mouth bottoms out when inserted into nozzle.

13. Problem: Drop tube nozzle or drop tube extension are difficult to install or remove.
    Remedy:
    • Lubricate the O-rings occasionally using silicone based grease. Only a very light film is required. If a drop tube
      nozzle or extension becomes stuck in the drop tube, tape the exterior of drop tube nozzle or extension to
prevent marring and use a pair of pliers to remove it from the drop tube. Lubricate the O-ring prior to re-installation.
## Parts List

<table>
<thead>
<tr>
<th>Key</th>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>1.</td>
<td>692-792</td>
<td>Hopper Cap</td>
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<tr>
<td>2.</td>
<td>286-975</td>
<td>Hopper Tube</td>
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<td>552-356</td>
<td>Hopper Baffle</td>
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<td>768-555</td>
<td>Powder Measure Body</td>
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<td>5.</td>
<td>521-202</td>
<td>Body Lock Screw</td>
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<td>349-835</td>
<td>Rotor</td>
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<td>Rotor/Micrometer Lock Screw</td>
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<td>Rotor Handle</td>
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<td>Smarter Powder Funnel*</td>
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<td>**</td>
<td>517-105</td>
<td>3/32&quot; Hex Key</td>
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* Not available in all configurations  
** Not Shown in Drawing
Limited Warranty

Every Frankford Arsenal product is warrantied to be free of defects in materials and workmanship for a period of one (1) year from the date of original purchase. Frankford Arsenal will, at its option, repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with our Instructions. This warranty does not apply to normal wear or to items whose life is dependent upon their use and care. This warranty is in lieu of all other warranties, expressed or implied and releases Frankford Arsenal, its affiliates, and its vendors from all other obligations and liabilities.

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Visit our web site at www.frankfordarsenal.com

A Battenfeld Product

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