## NUTATOR Mixer 421105

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CATALOG NUMBER</th>
<th>REFERENCE NUMBER</th>
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<tbody>
<tr>
<td>Nutator, 117V</td>
<td>421105</td>
<td></td>
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<tr>
<td>Nutator, 220V</td>
<td>421106</td>
<td></td>
</tr>
<tr>
<td>Mat</td>
<td>421506</td>
<td>42110504</td>
</tr>
<tr>
<td>Switch</td>
<td>421505</td>
<td>42110502</td>
</tr>
<tr>
<td>Motor, 117V</td>
<td>421504</td>
<td>42110501</td>
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<td>Motor, 220V</td>
<td>421507</td>
<td>42110601</td>
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<tr>
<td>Plastic shaft</td>
<td>429608</td>
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**Unavailable parts**

- Line cord: old cat# 42110503 | 42110503

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SHQ-023

01/2005
OPERATING and REPAIR INSTRUCTIONS For
CLAY ADAMS® Brand
Nutator
Models 421105 (117 V) and 421106 (220 V)

Caution: Read Instructions thoroughly before operating this equipment.

The CLAY ADAMS Direct Motor Nutator is a laboratory assist motor for
keeping in suspended laboratory members in a uniform suspension. Typical
laboratory applications for the Nutator include maintaining the homogeneous
suspension of blended solids in suspension tanks prior to the division of
suspensions for bleeding blood cells.

DESCRIPTION
The Nutator is composed of durable cast and sheet aluminum. It is designed to
produce a unique vertical motion for holding blood cells in suspension
without forming bubbles or foam which might cause erroneous counts,
particularly in electronic cell counters.

The Nutator and specimen tray are recommended the following numbers and
types of components:

- 1 each: 7 in. or 16 in. Blood Collection Tubes
- 24 each: 12 in. Blood Collection Tubes
- 15 each: UNDERFITTE Disposable Clamping Funnels
- 15 each: Screen Bottle

Large quantities, up to 1 lb. in weight, can be accommodated.

NOTES:
- Special care should be taken to prevent large quantities from falling off
the stand during drying.

GENERAL PRECAUTIONS
When the Nutator is in use, the operator must be aware of possible hazards.
The motor is powerful and can cause serious injury if not used properly.

To replace the motor (see Figure 2):
1. Cut the two power wires (not inside the box enclosure). Remove the nut that
2. Insert the new motor. Reinstall the motor enclosure. Tighten the screws to
3. Connect the power cord to the motor.

Material - Note 1

UNLESS OTHERWISE SPECIFIED
DIMENSIONAL TOLERANCES

<table>
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<tr>
<th>MATERIAL</th>
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(4) NEXT ASSEMBLY

(3) Figure 2: Wiring Diagram

(2) Figure 1: Schematic Diagram

(1) Figure 3: Operating Instructions