Visit the Legacy Classic web page at www.wengercorp.com for more details.

Note: Please read and understand the instructions before operating the Acoustical Shell.

Note: If you need additional information, contact Wenger Corporation using the information below.
Important User Information

General
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The information in this document is not intended to cover all possible conditions and situations that might occur. The end user must exercise caution and common sense when assembling or installing Wenger Corporation products. If any questions or problems arise, call Wenger Corporation at 1-800-887-7145.

Manufacturer
The Legacy® Classic Acoustical Shell is manufactured by:

Wenger Corporation
555 Park Drive, Owatonna, MN 55060
800-4WENGER (493-6437) • 1-507-455-4100 www.wengercorp.com

Intended Use
• This product is designed to be an acoustical reflector for vocal or instrumental groups. Towers may also be used as a backdrop or as a screen for other functions such as speeches and ceremonies.
• This product is intended for indoor use in normal ambient temperature and humidity conditions — it must not be exposed to outside weather conditions.
• This product is intended to be assembled only as described in these instructions.

Warranty
This product is guaranteed free of defects in materials and workmanship for five full years from date of shipment. A full warranty statement is available upon request.
## Safety Precautions

### General
Throughout this manual you will find **CAUTIONS** and **WARNINGS** which are defined as follows.

- **WARNING** means that failure to follow the instruction may result in serious injury or death.
- **CAUTION** means that failure to follow the instruction may result in serious injury or damage to property.

Read all of these safety instructions before setting up the Legacy Classic Acoustical Shell components.

### Set Up and Usage

<table>
<thead>
<tr>
<th>CAUTION</th>
<th>CAUTION</th>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>! Make sure that anyone operating the Legacy Classic Acoustical Shell has read and understands this manual.</td>
<td>! Always observe and comply with the Warnings and Cautions posted on the system equipment.</td>
<td>! Failure to comply with Warnings and Cautions in this document can result in damage to property or serious injury.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
<th>CAUTION</th>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>! Never use the Legacy Classic Acoustical Shell to support scenery, signs, lighting, etc.</td>
<td>! Never move the Legacy Classic Acoustical Shell more than a few feet when it is in the Performance Position.</td>
<td>! Always have the Legacy Classic Acoustical Shell in the Storage Position when moving to different locations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
<th>CAUTION</th>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>! Never use the Legacy Classic Acoustical Shell outdoors.</td>
<td>! Do not force the crank handle or the crank mechanism could be damaged.</td>
<td>! Do not move the shell if the Canopy panel is raised and unlocked.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
<th>CAUTION</th>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>! To prevent damage, fold the crank handle in before storing or transporting shells.</td>
<td>! To prevent damage, transport shells individually and never nested in a group.</td>
<td>! Do not use a powered device such as a fork lift to transport the shells.</td>
</tr>
</tbody>
</table>
**Product Terminology**

A Legacy Classic Acoustical Shell includes a counter-weighted base on casters, a support frame, and four acoustical reflector panels.

The following terms are used throughout these instructions:

**Shell** - One complete unit.

**Base** - The assembly that supports the frame and panels.

**Canopy Panel** - The highest panel. Can be either tapered or rectangular shaped.

**Upper Panel** - The higher of the two middle panels.

**Lower Panel** - The lower of the two middle panels.

**Filler Panel** - The panel closest to the ground.

**Raising** - Setting up a shell.

**Lowering** - Taking down a shell.

**Storage Position** - When a shell is folded down.

**Performance Position** - When a shell is fully raised.
**Required Tools**

A pliers may be required to adjust the Legacy Classic Acoustical Shell.

![Pliers](image)

**Storing the Shells**

In their Storage Position, the shells can pass through a 35” x 79” opening (a typical 36” door).

A single shell unit is 72” wide x 78½” high x 34½” deep (183 x 199 x 88 cm). Each additional shell will “nest” with the others as shown, requiring an additional 10⅝” (27 cm) of depth per unit.

Store the shells in a space that is clean and dry. Avoid spaces with high heat, extreme cold, or very humid conditions.

Never leave a shell in the Performance Position for more than a week at a time. Always lower the shells to their Storage Position between events and rehearsals.

![Caution](image)

**CAUTION**

To prevent damage, fold the crank handle in before storing or transporting shells.

**CAUTION**

To prevent damage, transport shells individually and never nested in a group.

**CAUTION**

Do not use a powered device such as a fork lift to transport the shells.
Moving the Shells

One person can move and steer a single shell. All four wheels are swivel casters, so steering the shell requires special attention.

If a shell is nested with other shells, prevent damage by having two people move the shell away from the other shells and through any door openings.

If a shell must be moved more than a few feet to the performance space, carefully roll it sideways at a slow pace. Slow down for corners and when moving through doorways.

The swivel casters are heavy-duty, but moving the shells over thresholds should be done carefully and at a slow speed. Use a ramp to move the shells over curbs or steps. Always move the shells sideways when going up or down a ramp.

To avoid fingerprints on the panels, have clean hands or wear clean gloves.
**Arranging the Shells**

Each shell is 72" (183 cm) wide. The canopy panels on the shell can be tapered to provide a “tight” enclosure when the shell is set up on a 19 foot radius and the canopy is set at a 45° angle — the most common arrangement for choral groups. Shells with rectangular canopies can be used for other arrangements to accomplish desired effects.

While they are still in the Storage Position, arrange the shells as desired, in a row or arc.

Check for overhead clearance and for fit with risers and other equipment in the performance space.

Roll the shells about 6” (15 cm) apart, to allow clearance for raising them to the Performance Position.


**Raising the Shell**

Raise the shells to the Performance Position in a well-lit area.

Raise the shells to the Performance Position one at a time.

It is recommended that one person stand behind the shell to serve as a spotter, to prevent raising the shell into an obstacle or another shell.

1. Roll the shell as close to the final Performance Position as possible.

2. Pull out on the bottom of the Upper Panel and unfold the Filler Panel.

2. Move the Canopy Lock Knob to the “RAISE” position.
Raising the Shell (continued)

3. Lift the Canopy Panel and use the Canopy Tool to raise it to one of the four set position angles. The tool fits into the triangular hole in the top edge of the Canopy Panel. There will be a slight “click” sound as the Canopy Panel reaches each of the set positions.

**NOTE:** One Canopy Tool is supplied with each Legacy Classic Acoustical Shell set. It may be stored on the frame of any shell.

4. Pull out and unfold the Crank Handle located on the back side of the shell.

5. Turn the Crank Handle clockwise slowly to raise the panels. The Crank will stop when the panels reach the shell’s maximum height.

**CAUTION**

Do not force the crank handle or the crank mechanism could be damaged.
6. Push the Upper Panel against the magnets. Turn the Crank Handle counter-clockwise to lower the Upper Panel until it rests on the Lower Panel in the Performance Position.

NOTE: This is the shell’s normal performance height. If the shell is used at less than the maximum height, it cannot be guaranteed that the Upper and Canopy Panels will stop and precisely remain at any other specific height. Some amount of drift downward may occur when the upper hinged panel is fully raised. This is normal and is due to variables in the weight and internal spring tension, especially in units with the rectangular canopy.

7. To make minor adjustments in the Canopy Panel angle (to align the canopies on adjacent shells), turn the Adjustment Rod with a pliers.
Lowering the Shell

1. Turn the Crank Handle ¼ turn Clockwise to slightly raise the Upper Panel.
2. Push out on the bottom of the Middle Panel to separate it from the magnets.

**CAUTION**
The Middle Panel must be disengaged before the shell can be lowered.

3. Turn the Crank Handle counter-clockwise until the shell is completely lowered.

**CAUTION**
Do not force the crank handle or the crank mechanism could be damaged.
4. Pull out and fold in the Crank Handle located on the back side of the shell.

5. Move the Canopy Lock Knob to the “LOWER” position.

6. With the Canopy Tool, raise the Canopy Panel slightly (A) to release it, then lower it (B) to the Storage Position. There will be a slight “click” sound as the Canopy Panel is released.

**NOTE:** One Canopy Panel is fully vertical, it may have to be pushed back slightly to release it and then pulled forward gently to start the forward rotation.

---

**CAUTION**

*Shell could tip if a locked Canopy Panel is pulled on.*

**CAUTION**

*Always allow the Canopy Panel to lower under it’s own weight.*
Lowering the Shell (continued)

7. Pull out the bottom of the Upper Panel and fold the Filler Panel up to its Storage Position (between the Upper and Lower Panels).
## Replacement Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty.</th>
<th>Item</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>COVER/BASE, COUNTERWEIGHT SET</td>
<td>1</td>
<td>23</td>
<td>WASHER, LOCK, 5/16, ZP, HELICAL</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>NUT, LOCK, NY. IN, FULL, ZP, 5/16-18</td>
<td>12</td>
<td>24</td>
<td>NUT, LOCK, NY. IN, FULL, ZP, 1/4-20</td>
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</tr>
<tr>
<td>3</td>
<td>CASTER, PLATE, SWIVEL, 3 D, 250 CAP</td>
<td>2</td>
<td>25</td>
<td>ROD, PAWL RELEASE</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>BOLT, CARR, 5/16-18X3/4, ZP</td>
<td>12</td>
<td>26</td>
<td>KNOB, BLK. 1&quot; DIAM, 1/4-20</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>COVER, LIFT MECHANISM</td>
<td>1</td>
<td>27</td>
<td>TAPERED CANOPY PANEL, CARRIER ASSY or</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RECTANGULAR CANOPY PANEL, CARRIER ASSY</td>
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<tr>
<td>6</td>
<td>SCREW, SM, PTH, #8 X 5/8, BLK, ZN</td>
<td>12</td>
<td>28</td>
<td>PIN, MAIN</td>
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<tr>
<td>7</td>
<td>SCREW, SELF DRILLING, NO. 10-16, 7/8</td>
<td>6</td>
<td>29</td>
<td>PIVOT BEARING, PANEL</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>HINGE, LOWER PANEL</td>
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<td>30</td>
<td>MIDDLE PANEL, CARRIER ASSY</td>
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<tr>
<td>9</td>
<td>HANDLE, FOLD, PLASTIC, 2.91</td>
<td>1</td>
<td>31</td>
<td>LEGACY CANOPY TOOL</td>
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<tr>
<td>10</td>
<td>CAPSCREW, GD2, ZP, 1/4-20X1/4</td>
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<td>32</td>
<td>PANEL ASSY, MIDDLE</td>
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<tr>
<td>11</td>
<td>HANDLE, CRANK</td>
<td>1</td>
<td>33</td>
<td>MAIN FRAME, PAINTED</td>
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</tr>
<tr>
<td>12</td>
<td>COG, ALIGNMENT</td>
<td>2</td>
<td>34</td>
<td>BOLT, CARRIAGE, 3/8-16X2 1/4, ZP</td>
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<tr>
<td>13</td>
<td>PIVOT WLMNT, MID PANEL</td>
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<td>NUT, LOCK, NY. IN, FULL, ZP, 3/8-16</td>
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<tr>
<td>14</td>
<td>SCREW, SELF TAP, HWH, 1/4-20X3/4</td>
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<td>PANEL ASSY, LOWER</td>
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<tr>
<td>15</td>
<td>ROD END, CANOPY, LOWER</td>
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<td>37</td>
<td>CASTER, PLATE, SWIVEL, 4D, 250 CAP</td>
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</tr>
<tr>
<td>16</td>
<td>CANOPY ROD</td>
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<td>BOLT, CARRIAGE, 3/8-16X1, ZP</td>
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<tr>
<td>17</td>
<td>ROD END, CANOPY, UPPER</td>
<td>1</td>
<td>39</td>
<td>FRAME, LEFT HAND SIDE</td>
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</tr>
<tr>
<td>18</td>
<td>BRACKET, ROD END</td>
<td>1</td>
<td>40</td>
<td>FRAME, RIGHT HAND SIDE</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>RECEIVER WLMNT</td>
<td>1</td>
<td>41</td>
<td>MAGNET, CERAMIC CUP</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>RATCHET WLMNT</td>
<td>1</td>
<td>42</td>
<td>SCREW, MACHINE, TH, #8-32X 3/4, ZP</td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>RING, CATCH PLATE</td>
<td>2</td>
<td>43</td>
<td>O-RING, .449 OD X .171 ID</td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td>RIVET, BLIND, 3/16, GRIP, 251/375</td>
<td>4</td>
<td>44</td>
<td>NUT, LOCK, NYLON INSERT, #8-32</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>45</td>
<td>CAP, SHAFT</td>
<td>1</td>
</tr>
</tbody>
</table>
**Maintenance**

**Cleaning**
Use a soft, damp cloth to clean all surfaces. Never hose down the shells or soak any components. For smudges or fingerprints, dampen a cloth with any standard non-abrasive household cleaner and wipe clean.

**Mechanical Check**
Periodically (every three or four uses) check for loose or damaged parts and for loose fasteners. Replace or repair damaged parts promptly. Refer to the Replacement Parts List.

---

**CAUTION**

*Do not make adjustments to the lift mechanism.*
*Contact Wenger Customer Service for repair options.*

**Panel Repair**
Panels are of lightweight composite construction and made of durable materials. If accidentally damaged, repairs can be made with common fillers and paint.

---

**CAUTION**

*Do not remove the canopy or middle panels.*
*Contact Wenger Customer Service for repair options.*