The Housing - Includes the focus handle, pinion gear and associated hardware.

The Focus System - The lamp carriage assembly with a lampholder and reflector mounted to the platform.

The Lamp Carriage - Includes the lampholder, wiring, reflector and the lampholder platform and associated parts.

The Door Assembly - The major components of the fresnel are:
Leviton Fresnels utilize the latest advances in lighting technology to provide the best quality fixture in the market. This operating guide will help you to become more familiar with your spotlight.

These Leviton fresnels are UL listed to 1000 watts. Any usage of higher wattage lamps is improper usage of the fixture and voids any manufacturing warranties. Please use only the lamps listed in the charts shown here.

Functions

Lamp Installation
Disconnect the unit from power. Open the lens door by pulling the top of the door pivot latch towards you. This will allow the door to swing open, revealing a lamp carriage assembly with a lampholder and reflector mounted to the platform.

To lamp the theatre fixture, Cat. No. FR1TH, align the flanges of the pre focus lamp with the respective indentations of the pre focus lampholder. Please note the lamp flanges are asymmetrical, and the large lamp flange must align with large socket indentation. After alignment, press lamp down by the ceramic base and test clockwise 90° until lamp locks in position.

To lamp the television fixture, Cat. No. FR1TV, release the locking lever of the bipost socket so the lever is parallel to the extruded housing. Insert the bipost lamp into the socket until the lamp stops, then turn the lever to the original position. The socket should firmly hold the lamp in position. Be sure that the lever is completely closed.

Close the lens door until latch clicks.

NOTE: Please do not touch the quartz lamp envelope during installation. If this occurs, clean the lamp with isopropyl (rubbing) alcohol and lint free, clean cloth.

Lens
The lens will become dirty due to environmental conditions. To clean, use a lint-free cloth and rubbing alcohol. Do not use commercial lens cleaners. If significant dirt and grime exist, remove the lens from the fixture and place lens in clean water WITHOUT SOAP. Rinse grime away, clean the reflector with alcohol.

Color
Lee Color Effect Filters are recommended for all filter applications. These filters are available in over 175 colors, color corrections, and diffusion selections. Lee Filters are available in both 21” x 4” sheets and 25’ x 4’ rolls.

Recommended Lamps for 6” Theater Fresnel

<table>
<thead>
<tr>
<th>Watts</th>
<th>Part No.</th>
<th>ANSI</th>
<th>Color</th>
<th>Life (Hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>750</td>
<td>716-147</td>
<td>ESR</td>
<td>1000W, 220/240V, 3200°K, 120V</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>176-097</td>
<td>EGT</td>
<td>1000W, 200 hr., 3200°K, 120V</td>
<td></td>
</tr>
<tr>
<td>650</td>
<td>6998C</td>
<td>CP52</td>
<td>650W, 220/240V, 3050°K, 120V</td>
<td></td>
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<tr>
<td>750</td>
<td>176-102</td>
<td>BTN</td>
<td>750W, 750 hr., 3050°K, 120V</td>
<td></td>
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</tbody>
</table>

Recommended Lamps for 6” Television Fresnel

<table>
<thead>
<tr>
<th>Watts</th>
<th>Part No.</th>
<th>ANSI</th>
<th>Color</th>
<th>Life (Hrs.)</th>
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</thead>
<tbody>
<tr>
<td>750</td>
<td>176-097</td>
<td>EGT</td>
<td>1000W, 220/240V, 3200°K, 120V</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>176-171</td>
<td>BTR</td>
<td>1000W, 200 hr., 3200°K, 120V</td>
<td></td>
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<tr>
<td>500</td>
<td>71-17</td>
<td>BTR</td>
<td>500W, 200 hr., 3200°K, 200V</td>
<td></td>
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<tr>
<td>750</td>
<td>716-168</td>
<td>BTR</td>
<td>750W, 750 hr., 3050°K, 120V</td>
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</tbody>
</table>

Maintenance

Focusing
The Fresnel lamp is a soft focusing projector that may be framed to reduce glare or direct the light through Leviton barn doors and top hats. The beam may be further softened through wire scrims or filters. Color temperature may be shifted with Leviton dichroic glass filters, or normal color medium.

To adjust the beam, first secure the lamp in place, cover the fresnel with a cloth to reduce glare, and observe the beam. The beam may be expanded or contracted by adjusting the rack and pinion focus system.

Photometric Performance

Beam Candlepower

6” Theater Fresnel, Cat. No. FR1TH, with lamp No. 176-171, 1000W
ANSI Code BTR

<table>
<thead>
<tr>
<th>Spots</th>
<th>Beam Candlepower</th>
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<tbody>
<tr>
<td>175-030</td>
<td>11,200</td>
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</tbody>
</table>

6” Television Fresnel, Cat. No. FR1TV, with lamp No. 176-097, 650W
ANSI Code EGT

<table>
<thead>
<tr>
<th>Spots</th>
<th>Beam Candlepower</th>
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<tr>
<td>184-030</td>
<td>12,000</td>
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### LAMP HOUSING ASSEMBLY

<table>
<thead>
<tr>
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<th>Item Number</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Right housing</td>
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<td>2</td>
<td>1</td>
<td>Left housing</td>
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<tr>
<td>3</td>
<td>1</td>
<td>Top housing</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Focus track</td>
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<tr>
<td>5</td>
<td>1</td>
<td>Front cover</td>
<td></td>
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<tr>
<td>6</td>
<td>1</td>
<td>Rear cover</td>
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<tr>
<td>7</td>
<td>1</td>
<td>Standoff disk</td>
<td>N00-HD237-690</td>
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<tr>
<td>8</td>
<td>3</td>
<td>Rivet, 3/16&quot; x 11/16&quot;</td>
<td>N00-HD913-400</td>
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<tr>
<td>9</td>
<td>1</td>
<td>Yoke</td>
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<td>10</td>
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<td>Washer, flat</td>
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<tr>
<td>11</td>
<td>1</td>
<td>Roll, hex head, 1/4-20 x 1&quot;</td>
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<tr>
<td>12</td>
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<td>Screw, pan head, 10-24 x 1&quot;</td>
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<tr>
<td>13</td>
<td>1</td>
<td>Focus handle</td>
<td>N00-KN280-950</td>
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<td>14</td>
<td>1</td>
<td>Washer, fibre</td>
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<tr>
<td>15</td>
<td>2</td>
<td>Wave washer</td>
<td>N00-HD223-440</td>
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<td>16</td>
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<td>Screw, pan head, 8-32 x 3/4&quot;</td>
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<td>Focus gear assembly</td>
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<td>4</td>
<td>K-lock nut, 8-32</td>
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<tr>
<td>19</td>
<td>4</td>
<td>Screw, pan head, 8-32 x 1/2&quot;</td>
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<td>20</td>
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<td>Hinge</td>
<td>N02-SM280-820</td>
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<td>22</td>
<td>Screw, flat head, 8-32 x 1/2&quot;</td>
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<td>22</td>
<td>1</td>
<td>Net, welded</td>
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<td>23</td>
<td>1</td>
<td>Rivet, pop</td>
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<td>24</td>
<td>1</td>
<td>Ring terminal</td>
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<td>25</td>
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<td>Green wire</td>
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<td>26</td>
<td>2</td>
<td>Washer, internal tooth, #6</td>
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<td>27</td>
<td>1</td>
<td>Strain relief</td>
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<td>28</td>
<td>1</td>
<td>Sleeving, 32&quot; lang</td>
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<tr>
<td>29</td>
<td>1</td>
<td>Black wire</td>
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<tr>
<td>30</td>
<td>1</td>
<td>White wire</td>
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<tr>
<td>31</td>
<td>1</td>
<td>Standoff disk</td>
<td>N00-SM227-550</td>
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<tr>
<td>32</td>
<td>3</td>
<td>Rivet, 3/16&quot; x 7/16&quot;</td>
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<tr>
<td>33</td>
<td>1</td>
<td>Pressure disk</td>
<td>N00-SM243-390</td>
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<td>34</td>
<td>1</td>
<td>T-slop</td>
<td>N00-HD023-000</td>
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<tr>
<td>35</td>
<td>4</td>
<td>Screw, pan head, 6-32 x 3/8&quot;</td>
<td>N00-HD220-800</td>
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<tr>
<td>36</td>
<td>1</td>
<td>Light shield</td>
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<td>37</td>
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<td>K-lock nut, 10-24</td>
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<tr>
<td>38</td>
<td>4</td>
<td>Tilt handle</td>
<td>N00-HD707-000</td>
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<td>39</td>
<td>2</td>
<td>Screw, pan head, 10-24 x 2&quot;</td>
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<td>40</td>
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<td>Door assembly</td>
<td>N00-AS281-490</td>
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<tr>
<td>41</td>
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<td>C-clamp</td>
<td>000-A00CC-000</td>
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### PLATFORM ASSEMBLY — THEATER FRESNEL

<table>
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<th>Description</th>
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<tbody>
<tr>
<td>41</td>
<td>4</td>
<td>Rivet, 1/8&quot; x 7/32&quot;</td>
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<td>42</td>
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<td>Reflector</td>
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<td>43</td>
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<td>Rivet, 1/8&quot; x 5/16&quot;</td>
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<td>44</td>
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<td>Reflector mount</td>
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</tr>
<tr>
<td>45</td>
<td>2</td>
<td>Washer, internal tooth, #4</td>
<td></td>
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<tr>
<td>46</td>
<td>2</td>
<td>Screw, pan head, 4-40 x 3/8&quot;</td>
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<tr>
<td>47</td>
<td>4</td>
<td>Carriage assembly guide</td>
<td>N00-SM275-250</td>
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<td>48</td>
<td>1</td>
<td>Lampholder platform</td>
<td>N00-SM280-640</td>
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<td>49</td>
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<td>Lampholder, prefocus</td>
<td>N01-SK021-230</td>
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### PLATFORM ASSEMBLY — TELEVISION FRESNEL

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<td>Lampholder</td>
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<td>Screw, pan head, 8-32 x 1/2&quot;</td>
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<td>52</td>
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<td>Cable clamp</td>
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<tr>
<td>53</td>
<td>2</td>
<td>Rivet, pop</td>
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</tr>
<tr>
<td>54</td>
<td>1</td>
<td>Nomex insulator</td>
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</tr>
</tbody>
</table>

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**FOR CANADA ONLY**

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

**LIMITED 2 YEAR WARRANTY AND EXCLUSIONS**

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product, at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton’s only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. The warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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For Technical Assistance Call: 1-800-824-3005 (U.S.A. Only) www.leviton.com