THANK YOU
Thank you for purchasing the ASR Slide-Out Rotating Shelf System. Please read these instructions thoroughly before installing / assembling this product.

PRODUCT FEATURES
- Adjustable shelving
- Cable management included
- Easy access to rear connections
PARTS LIST

A

B

C

D

E

F

G

H

J

K
### PARTS LIST (CONTINUED)

<table>
<thead>
<tr>
<th>PART NAME</th>
<th>LETTER DESIGNATION</th>
<th>MODEL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ASR-30</td>
</tr>
<tr>
<td><strong>QUANTITY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOP PANEL</strong></td>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td><strong>BOTTOM PANEL/SHELF</strong></td>
<td>B</td>
<td>1</td>
</tr>
<tr>
<td><strong>SHELF</strong></td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td><strong>BASE (2 SLIDES)</strong></td>
<td>D</td>
<td>1</td>
</tr>
<tr>
<td><strong>BASE (4 SLIDES)</strong></td>
<td>E</td>
<td>—</td>
</tr>
<tr>
<td><strong>SIDE</strong></td>
<td>F</td>
<td>2</td>
</tr>
<tr>
<td><strong>LOCKING BRACKET</strong></td>
<td>G</td>
<td>1</td>
</tr>
<tr>
<td><strong>MOUNTING TEMPLATE</strong></td>
<td>H</td>
<td>1</td>
</tr>
<tr>
<td><strong>LOCKING PANEL</strong></td>
<td>J</td>
<td>1</td>
</tr>
<tr>
<td><strong>LACER BAR</strong></td>
<td>K</td>
<td>1</td>
</tr>
</tbody>
</table>
HARDWARE LIST

L

M

(Actual size)

N

(Actual size)

O

(Actual size)

P

(Actual size)

Q

5/8" Dia.
Velcro® Loop

(Actual size)

R

7/8" Dia.
Velcro® Hook

(Actual size)

S

15" Velcro® loop non-adhesive

T

15" Velcro® hook adhesive

U

V

W

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X
<table>
<thead>
<tr>
<th>PART NAME</th>
<th>PART REQUIRED</th>
<th>ASR-30</th>
<th>ASR-36</th>
<th>ASR-42</th>
<th>ASR-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWIVEL DISC</td>
<td>L</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>1&quot; SHOULDER BOLT</td>
<td>M</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1-1/4&quot; WOODSCREW</td>
<td>N</td>
<td>25</td>
<td>29</td>
<td>33</td>
<td>37</td>
</tr>
<tr>
<td>5/8&quot; WOODSCREW</td>
<td>O</td>
<td>14</td>
<td>14</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>3/4&quot; MACHINE SCREW</td>
<td>P</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>5/8&quot; DIAMETER VELCRO LOOP</td>
<td>Q</td>
<td>16</td>
<td>20</td>
<td>24</td>
<td>28</td>
</tr>
<tr>
<td>7/8&quot; DIAMETER VELCRO HOOK</td>
<td>R</td>
<td>16</td>
<td>20</td>
<td>24</td>
<td>28</td>
</tr>
<tr>
<td>15-1/2&quot; VELCRO LOOP</td>
<td>**S</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>15-1/2&quot; VELCRO HOOK</td>
<td>**T</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>HEX KEY DRIVER</td>
<td>U</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>NAIL</td>
<td>V</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CABLE STRAP</td>
<td>W</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>HEX DRIVER BIT</td>
<td>X</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

* 5/8"X15.5" VELCRO LOOP
** 5/8"X15.5" VELCRO Hook
TOOLS REQUIRED (User supplied)
- Hammer
- # 2 Phillips screwdriver
- Screwgun or drill: # 2 Phillips bit and low torque setting
- 1/8" Drill bit
- Clear or masking tape

DIMENSIONS

<table>
<thead>
<tr>
<th>Part #</th>
<th>Overall Height</th>
<th>*Minimum Width</th>
<th>Minimum Depth-No Setback</th>
<th>Min. Depth-3/4&quot; max. Setback</th>
<th>Useable Inside height</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASR-42</td>
<td>42.00 [762]</td>
<td>19.00 [483]</td>
<td>20.00 [508]</td>
<td>20.75 [527]</td>
<td>37.40 [645]</td>
</tr>
</tbody>
</table>

*19.00" [483mm] Minimum width required leaves approximately 0.25" clearance per side

YOU ARE RESPONSIBLE: It is the responsibility of the installer to ensure millwork is rated for the "Required Millwork Weight Capacity" and can support the shelving system in the service (extended) position. Failure to do so can result in serious damage to equipment and or risk of injury. Installation must be performed in strict adherence to the specifications within this instructions sheet.

TIPPING HAZARD: Host enclosure (cabinet) MUST be adequately secured to the floor it rests on to prevent cabinet from falling forward when shelving system is extended for servicing. Shelving system must be secured to the host enclosure as detailed in these instructions. Overloading equipment may increase chances of tipping.

WEIGHT CAPACITIES

<table>
<thead>
<tr>
<th>Part #</th>
<th>ASR Weight Capacity</th>
<th>Weight of ASR System without Equipment</th>
<th>Single Shelf Weight Capacity</th>
<th>Required Millwork Weight Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASR-30</td>
<td>100 Lbs [46kg]</td>
<td>60 Lbs [27kg]</td>
<td>65 Lbs [30kg]</td>
<td>see below</td>
</tr>
<tr>
<td>ASR-36</td>
<td>100 Lbs [46kg]</td>
<td>68 Lbs [31kg]</td>
<td>65 Lbs [30kg]</td>
<td>see below</td>
</tr>
<tr>
<td>ASR-42</td>
<td>200 Lbs [91kg]</td>
<td>76 Lbs [35kg]</td>
<td>65 Lbs [30kg]</td>
<td>see below</td>
</tr>
<tr>
<td>ASR-48</td>
<td>200 Lbs [91kg]</td>
<td>86 Lbs [39kg]</td>
<td>65 Lbs [30kg]</td>
<td>see below</td>
</tr>
</tbody>
</table>

*Weight capacity of shelving system not to be exceeded by the total weight of equipment being installed in it. This is NOT the required weight capacity of the host enclosure

Required Millwork Weight Capacity = Weight of ASR system without equipment + total weight of equipment

Weight Distribution Warning: 1/2 of total equipment weight must be mounted in the lower 1/3 of the ASR shelving system
Installation Opening Preparation

1) Install Lacer Bar(s) (K) onto rear wall of host enclosure as shown. (FIGURE A) Your installation may require Lacer Bars to be placed in a different position. Lacer Bar placement should be arranged so that signal wires can be separated from power/speaker cables upon finishing.

NOTE: Models ASR-30 and ASR-36 include 1 Lacer Bar which may be mounted horizontally if better suited to your installation. Models ASR-42 and ASR-48 include 2 Lacer Bars.

2) Pull existing cables into host enclosure and secure to Lacer Bar(s) so cables are cleared from the installation opening. (FIGURE B)

3) Ensure that installation opening is clean and clear of debris.

4) Plumb and level installation opening and mounting surface.

WARNING: Do not attempt installation unless base has been proven to be level in 2 directions. Failure to do so may result in the ASR Shelving System to slide out freely, causing personal injury or damage to equipment installed in it.
UNPACK AND INSTALL SYSTEM BASE / SLIDER ASSEMBLY

NOTE: If any parts are damaged or missing, call 1-800-266-7225. Do not return to the place of purchase.

1) Unpack all parts carefully on a flat, clean surface. Inspect all packaging and remove hardware kits before discarding.

2) Firmly press rollers into holes on base (D/E), using the locking panel (J) as a straight edge guide (FIGURE A). Ensure all rollers are seated fully into holes on base. If needed, gently tap around edges with a hammer, taking care not to damage the plastic.
3) Use tape to attach the paper mounting template (H) to the base of the installation opening. (FIGURE B)

**NOTE:** The template is marked with a dotted fold-line to help position for flush or setback mounting. 3/4” setback is suggested when customer supplied doors are used.

4) Use the paper mounting template (H) to mark base installation holes and locking bracket (G) installation holes with the supplied nail. Gently tap the nail with a hammer to mark each hole location.

**NOTE:** ASR-30, ASR-36: 100 LB Capacity; uses 2 outer slides
ASR-42, ASR-48: 200 LB Capacity; uses all 4 slides

You may also choose to drill pilot holes in the marked mounting hole locations. A 1/8” drill bit is required. Do not over-size the pilot holes, as over-sized holes will compromise the strength of your mounting.
5) Remove the mounting template and mount the locking bracket (G) to the base of the opening using (2) #12 wood screws (O) supplied (FIGURE C). Place the base assembly in the opening with the flat edge facing the front of the opening and the rounded corners facing the rear. Starting with the rear most holes, fasten the slides to the mounting surface using the #12 wood screws (O) provided. Then, install the remaining screws to attach each slide to the mounting surface securely, 4 screws per slide total. (FIGURE D)
1) Assemble bottom panel/shelf (B) to steel side panels (F) using 6 large screws (N). Start by placing the rear edge of the base panel/shelf on a sturdy surface and the flanged edge of the side panel in the outer position (FIGURE E). Attach the top (A) as shown, starting with the circular holes, then fasten the oval holes.

NOTE: All holes in top & bottom panels are arranged in such a way that it is only possible to assemble them in one fashion. **DO NOT DRILL NEW HOLES.**
2) Carefully lift the assembled shelving system into position on the base/slider assembly. Use the rear edge of the shelving system for location. The rear of the shelving system bottom should be flush with the rear of the system base/slider assembly and flush with the sides of the installation opening (FIGURE F). Now, insert the 1” shoulder bolt (M) into the hole in the center of the shelving system base. Thread the bolt by hand into the receptacle in the base/slider assembly. Hand tighten only, do not over tighten. (FIGURE G) Check the ease of system’s rotation and back the shoulder bolt out slightly to ease rotation if needed.

3) Slide shelving system in and out to check for interference. Install locking panel (J) to ensure locking bracket (G) does not require adjustment. Adjust if needed.
1) Remove the locking panel (J) from the front of the shelving system (if installed). Extend shelving system and rotate to allow for rear access of equipment to be installed. Turn your first piece of equipment upside-down, taking care not to damage any of the buttons, switches, other moving parts, or the finish of your unit. Remove the tape Back from a small Velcro® circle (Q). Stick the Velcro® circle (Q) to the foot of your unit. Next, mate a large Velcro® circle (R) to the small Velcro® circle (Q). Repeat this process for all other feet on your piece of equipment and press down firmly. **(FIGURE H)**
NOTE: Before proceeding with equipment and shelf mounting: a minimum of 1/2" should be added to the height of each piece of equipment to allow for heat to dissipate from the top of each unit. However, you may choose to add more than 1/2" to the height of each piece of equipment to result in evenly spaced shelves upon finishing. (See Pages 15 & 16)

2) Mount the first adjustable shelf (C) above the unit already installed leaving at least 1/2" of room between the top of your component and the shelf, or enough space to evenly distribute the rest of the adjustable shelves to be installed (FIGURE H). Repeat for rest of shelves to be installed.

3) Attach the locking panel to the locking bracket/front of shelving unit using 2 black machine screws. Check that the shelving unit stays closed securely.
This process will help you to place your components in the system beginning at the bottom, evenly spaced, without trial and error.

**SUGGESTED**  
**NOT SUGGESTED**  
(ASR-36 SHOWN)

**HEIGHT MEASUREMENT**

Measure equipment height including feet

**AVAILABLE MOUNTING SPACE**

Enter total component height

Add up the heights of all components, measuring as shown above. Record the overall height dimension on Line A in the appropriate column.

Subtract Line A from AVAILABLE MOUNTING SPACE

Divide unused space

Divide Line B by the number indicated.

**INDIVIDUAL COMPONENT GAP**

This is the amount of space that goes above each component. If there isn’t a hole at this dimension, use the hole below

<table>
<thead>
<tr>
<th>PART #</th>
<th>ASR-30</th>
<th>ASR-36</th>
<th>ASR-42</th>
<th>ASR-48</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>23.125&quot;</td>
<td>28.375&quot;</td>
<td>33.625&quot;</td>
<td>38.875&quot;</td>
</tr>
<tr>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Weight Distribution Warning:** 60% of total equipment weight must be mounted in the lower 30% of the ASR shelving system.
Example showing 5 components being installed in an ASR-36

**ASR-36**

**AVAILABLE MOUNTING SPACE** → 28.375"

**ENTER TOTAL COMPONENT HEIGHT** → 16.75" + 11.625"

Add up the heights of all components. Record the overall height dimension on Line A, in the appropriate column. Then subtract Line A from AVAILABLE MOUNTING SPACE

**DIVIDE UNUSED SPACE** → 2.325"/5

Divide Line B by the number indicated

**INDIVIDUAL COMPONENT GAP** → 2.325"

This is the amount of space that goes above each component. If there isn’t a hole at this dimension, use the hole below

**FRONT VIEW**
WARNING: To reduce the risk of electrical shock, complete the following steps before supplying power to equipment.

1) Pull out and rotate shelving system in the direction you prefer.

HINT: Once cables are connected to equipment installed in the shelving system and laced to Lacer Bar(s), the shelving system will be restricted and should only be turned in the direction chosen.

2) Select one side of shelving system for signal cables, and the opposite side for power and speaker cables. Lace cables as shown, ensuring cables are fairly taut. This ensures that the service loop will be the correct length and not be pinched when closing the rack.

3) Cable Management Tip:
   Tie your cable bundles at least every 6" - 8". This allows cable bundles to lay neatly together when shelving system is in the closed position.

NOTE: CABLE STRAPS ARE PROVIDED AND SHOULD BE USED ON THE LACER BARS TO HOLD WIRES IN PLACE
WARRANTY
Middle Atlantic Products, Inc. (the "Company") warrants the ASR Series Slide-out Rotating Shelf System to be free from defects in material or workmanship under normal use and conditions for a period of (3) three years from date of shipment by the Company.

The Company’s entire liability to the purchaser, and the purchaser's (or any other parties) sole and exclusive remedy, under this warranty shall be limited, at the Company's option, to either (a) return of and refund of the price paid for, or (b) repair or replacement at the Company's factory of the products purchased, or any part or parts thereof, which the Company has determined to be defective after inspection thereof at the Company's factory.

This warranty does not cover damage due to acts of God, accident, misuse, abuse or negligence by parties other than the Company, or any modification or alteration of the products. In addition, this warranty does not cover damage due to improper handling, assembly, installation or maintenance.

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TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF THE PRODUCTS PURCHASED, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE COMPANY'S LIABILITY TO THE PURCHASER (OR ANY OTHER PARTY) HEREUNDER, IF ANY, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCTS PAID TO THE COMPANY.

Corporate Headquarters
Corporate Voice 973-839-1011 - Fax 973-839-1976
International Voice +1 973-839-8821 - Fax +1 973-839-4982
middleatlantic.com - info@middleatlantic.com

Middle Atlantic Canada
Voice 613-836-2501 - Fax 613-836-2690
middleatlantic.ca - contactcanada@middleatlantic.com

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