Multi-Point Replacement Hardware
Parts Reference Catalog

For the following Hinged Patio Doors:

- Weather Shield produced before 3/02
- ProShield produced before 8/04
- Visions produced before 2/04

#010153 – New 01/05 – PART 2 OF 2
Multi-Point Replacement Hardware Only

For Additional Parts See
Parts Reference Catalog #010973 PART 1 OF 2 – 09/03

Weather Shield
Windows & Doors

Weather Shield Mfg., Inc.
Medford, WI 54451 • 715-748-2100
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PARTS REFERENCE CATALOG GUIDE

PURPOSE
This catalog is intended to assist you in identifying and ordering multi-point replacement hardware for your door.

Use the chart and diagrams on Page 3 to identify the “old hardware” on your door.

There are two separate kits for units built prior to 1/96 as noted in the middle of Page 3.

For all other doors, pick part numbers as appropriate, from the chart on the top of Page 3.

To successfully convert from old parts to new, an entire set of new parts must be ordered.
You cannot intermix old and new hardware. See the installation instructions for more details.

Installation Instructions – Pages 4 through 14 explain how to change existing hardware over to the new. Check the headings and pick the pages that apply to your specific door.

The installation instructions are also available separately, under their own document part numbers, as listed below.

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For additional assistance contact your Weather Shield Customer Service Representative.
Multi-Point Replacement Hardware

For the following Hinged Patio Doors: (roll pin hardware only)
Weather Shield produced before 3/02 | ProShield produced before 8/04 | Visions produced before 2/04

Measure your hardware while it is in the locked position.

<table>
<thead>
<tr>
<th>Locking Point #1</th>
<th>Locking Point #3</th>
<th>Locking Point #4</th>
<th>Bottom Extension</th>
<th>Middle Extension</th>
<th>Top Extension</th>
<th>Main Strike</th>
<th>Roller Strikes (Quantity Provided)</th>
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</thead>
<tbody>
<tr>
<td>9-1/2&quot;</td>
<td>62-1/2&quot;</td>
<td>83-1/2&quot;</td>
<td>941842</td>
<td>N/A</td>
<td>9414356</td>
<td>941992</td>
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<td>9-1/2&quot;</td>
<td>62-1/2&quot;</td>
<td>95-5/16&quot;</td>
<td>941842</td>
<td>942098</td>
<td>9414356</td>
<td>941992</td>
<td>941992 or 941993 (qty. 3)</td>
</tr>
<tr>
<td>9-1/2&quot;</td>
<td>62-1/2&quot;</td>
<td>109-3/8&quot;</td>
<td>941842</td>
<td>942098</td>
<td>942101</td>
<td>941356</td>
<td>941992 or 941993 (qty. 3)</td>
</tr>
<tr>
<td>9-1/2&quot;</td>
<td>62-1/2&quot;</td>
<td>103-15/16&quot;</td>
<td>941994</td>
<td>941995</td>
<td>942105</td>
<td>941356</td>
<td>941992</td>
</tr>
<tr>
<td>9-1/2&quot;</td>
<td>69-7/16&quot;</td>
<td>N/A</td>
<td>941842</td>
<td>N/A</td>
<td>941843</td>
<td>941356</td>
<td>941992 or 941993 (qty. 2)</td>
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<tr>
<td>9-1/2&quot;</td>
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<td>N/A</td>
<td>941842</td>
<td>N/A</td>
<td>941844</td>
<td>941356</td>
<td>941993</td>
</tr>
<tr>
<td>22-1/16&quot;</td>
<td>49&quot;</td>
<td>N/A</td>
<td>941455</td>
<td>N/A</td>
<td>941456</td>
<td>941356</td>
<td>941451</td>
</tr>
<tr>
<td>22-1/16&quot;</td>
<td>49&quot;</td>
<td>72-3/16&quot;</td>
<td>941455</td>
<td>N/A</td>
<td>941457</td>
<td>941356</td>
<td>941451 (qty. 3)</td>
</tr>
</tbody>
</table>

1To use this gray highlighted row, insert must be 92-15/16" tall. If it is not that tall use the line above.

NOTES

When ordering replacement parts, it will be necessary to order a complete system, including:
• bottom extension
• middle extension (if applicable)
• top extension
• all strikes

Some parts may need to be trimmed to the correct length.

If your unit was built prior to 1/96 use kit #1175814 or #1175815.

1175814 (for 6-8 to 6-10 Heights)
W/O Shootbolts) Contains:
Stainless Lock Gear w/btm exten #942093
Stainless 1220MM Top Extension #942094
Stainless Strike Plate #941356
Stainless Top Roller Plate #941992
Stainless #8x1-1/4" FHP Screws #960076
Stainless #8x5/8" FHP Screws #1019538
Instructions #1175808

1175815 (for 6-10½ to 8-0 Heights)
W/O Shootbolts) Contains:
Stainless Lock Gear w/btm exten #942093
Stainless 1570MM Top Extension #942095
Stainless Strike Plate #941356
Stainless Top Roller Plate #941992
Stainless #8x1-1/4" FHP Screws #960076
Stainless #8x5/8" FHP Screws #1019538
Instructions #1175808

Check roller strikes against these dimensions. Order the closest match to the old strike.

If Locking Point #1 measures 9-1/8", instead of 9-1/2", subtract 3/8" from every dimension.
Installation Instructions
Replacing Winkhaus and Roto Locking Gear With Hoppe Locking Gear – Part #941842 Including Top Extension – Part #941843 or Part #941844 For Door Units From 6-8 to 8-0 Tall – No Shootbolts

Tools Needed

The replacement hardware includes:

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless lock gear w/bottom extension (no shootbolt)</td>
<td>1</td>
<td>941842</td>
</tr>
<tr>
<td>Stainless 829MM pin top extension (no shootbolt)</td>
<td>1</td>
<td>941843</td>
</tr>
<tr>
<td>OR Stainless 829MM pin top extension (no shootbolt)</td>
<td>1</td>
<td>941844</td>
</tr>
<tr>
<td>Stainless 3-piece roller plate – Winkhaus</td>
<td>2</td>
<td>941992</td>
</tr>
<tr>
<td>OR Stainless 3-piece roller plate – Roto</td>
<td>2</td>
<td>941993</td>
</tr>
<tr>
<td>Stainless latch/deadbolt strike plate</td>
<td>1</td>
<td>941356</td>
</tr>
<tr>
<td>#8 x 1-1/4&quot; flat head Phillips stainless screws</td>
<td>12</td>
<td>960076</td>
</tr>
<tr>
<td>#8 x 5/8&quot; flat head Phillips stainless screws</td>
<td>3</td>
<td>1019538</td>
</tr>
<tr>
<td>Installation Instructions</td>
<td>1</td>
<td>1180173</td>
</tr>
</tbody>
</table>

**WARNING**
Improper use of hand and power tools could result in personal injury and/or product damage. Follow equipment manufacturers’ instructions for safe operation. Always wear safety glasses.

Instructions
1. Open door. Remove interior handle set screw (FIGURE 1). Use a #3 metric hex wrench. Remove the interior handle. Slide the exterior handle and shaft completely out of the door.

FIGURE 1
Installation Instructions
Replacing Winkhaus and Roto Locking Gear With Hoppe Locking Gear – Part #941842 Including Top Extension – Part #941843 or Part #941844
For Door Units From 6-8 to 8-0 Tall – No Shootbolts

2. Remove key cylinder set screw from edge of door (FIGURE 2). Then remove thumb turn/key cylinder by sliding it to the interior.

3. Remove interior escutcheon plate screws that hold the interior and exterior escutcheon plates together (FIGURE 2). Remove plates.

4. Mark the door stile with a locator line drawn on the stile and through the locator line embossed on the lock case (FIGURE 2). This line ensures that the new hardware goes back in the proper place.

5. Remove screws from the edge of the door that hold the locking rods to the door (FIGURE 3).

6. Remove locking gear and rods from the door.

7. Align new and old lock cases using the embossed locator lines (FIGURE 4). The locator lines and the bottoms of the new and old locking rods should line up. If not, cut the bottom of the new locking rod even with the old. Cut off using a hacksaw.

8. On new locking case, remove label (FIGURE 5).

9. Squeeze tabs on plastic shipping clip and pull clip straight out (FIGURE 5).

10. Latch bolt and mishandling device must have their slanted sides facing the strike plate. If the latch bolt and mishandling device face the wrong direction, pull them straight out from lock case and rotate (FIGURE 6). Once rotated, release grip and spring tension will reseat them in the lock case.
11. Install new locking gear into the door (FIGURE 7). It should line up with your locator line and sit flush with the face of the door (FIGURE 8). Bottom of locking rod should be flush with bottom of the door (FIGURE 9). If locking rod is too long (FIGURE 10), cut it off even with the bottom of the door. Remove the 5/8” long stainless steel machine screw (FIGURE 7) and keep for securing locking gear to the top extension.

12. When gear and rod fit and line up properly, secure in place with the #8 x 1-1/4” flat head Phillips stainless steel screws (Part #960076 provided).

If the gear does not fit, remove the lock case and modify mortise until proper fit is obtained.

13. Fit top locking rod into mortise on door. Align the four points of the top locking rod with the four points on the lock case (FIGURE 11) and slide top rod completely into mortise and down against the latch. If top locking rod is taller than the door, mark top rod at door height, remove from mortise, and cut locking rod to proper length.

14. Refit locking rod in the mortise and attach to lock case. The screw holes must align. The nib on the locking rod fits into the groove of the latch (FIGURE 12). Secure top rod to locking case with 5/8" long stainless machine screw (removed in Step 11) (FIGURE 12). Secure top rod to door with #8 x 1-1/4” flat head stainless steel screws (Part #960076 provided) (FIGURE 13).
15. Remove the existing roller plates. Install the stainless steel plates included with the new parts. The new roller plate is a three-piece assembly (FIGURE 14).

Install the base plate (FIGURE 15). Then the two strike keepers (FIGURES 16 & 17).

16. Screw roller plates in place using #8 x 1-1/4" flat head Phillips stainless steel screws (Part #960076 provided) (FIGURE 17).

17. Remove existing strike plate from door jamb.

18. Test fit new strike plate to door jamb (FIGURE 18). Modify door jamb rout as needed.

19. When strike plate fits properly, fasten with #8 x 5/8" flat head Phillips stainless steel screws (Part #1019538 provided).

20. Reinstall the interior and exterior escutcheon plates, key cylinder and handles.

**NOTE:** With door open, locking gear will not operate unless mishandling device is pushed in and held against lock case (FIGURE 19).

21. Before shutting door, check locking gear for proper operation by operating handle while fully depressing mishandling device.

22. Shut door and check locking gear operation. Make necessary adjustments to provide smooth operation and secure locking.
Installation Instructions
Replacing Winkhaus Locking Gear With
Hoppe Locking Gear – Part #941994, Middle Extension – Part #941995 &
Top Extension – Part #941232
For Door Units From 7-2-5/8 to 8-0 Tall With Shootbolts

Tools Needed

The replacement hardware includes:

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless lock gear w/bottom extension (with shootbolt)</td>
<td>1</td>
<td>941994</td>
</tr>
<tr>
<td>Stainless 829MM pin mid extension</td>
<td>1</td>
<td>941995</td>
</tr>
<tr>
<td>Stainless top extension (with shootbolt)</td>
<td>1</td>
<td>941232</td>
</tr>
<tr>
<td>Stainless 3-piece roller plate – Winkhaus</td>
<td>2</td>
<td>941992</td>
</tr>
<tr>
<td>Stainless latch/deadbolt strike plate</td>
<td>1</td>
<td>941356</td>
</tr>
<tr>
<td>#8 x 1-1/4&quot; flat head Phillips stainless screws</td>
<td>12</td>
<td>960076</td>
</tr>
<tr>
<td>#8 x 5/8&quot; flat head Phillips stainless screws</td>
<td>3</td>
<td>1019538</td>
</tr>
<tr>
<td>Installation Instructions</td>
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<td>1180175</td>
</tr>
</tbody>
</table>

Instructions
1. Open door. Remove interior handle set screw (FIGURE 1). Use a #3 metric hex wrench. Remove the interior handle. Slide the exterior handle and shaft completely out of the door.

2. Remove key cylinder set screw from edge of door (FIGURE 2). Then remove thumb turn/key cylinder by sliding it to the interior.

3. Remove interior escutcheon plate screws that hold the interior and exterior escutcheon plates together (FIGURE 2). Remove plates.

4. Before pulling hardware from the door mark the door stile with a locator line drawn on the stile and through the locator line embossed on the lock case (FIGURE 2). This line ensures that the new hardware goes back in the proper place.
Installation Instructions
Replacing Winkhaus Locking Gear With Hoppe Locking Gear – Part #941994, Middle Extension – Part #941995 & Top Extension – Part #941232
For Door Units From 7-2-5/8 to 8-0 Tall With Shootbolts

5. Remove screws from the edge of the door that hold the locking rods to the door (FIGURE 3).

6. Remove locking gear and rods from door.

7. On new locking case, remove label (FIGURE 4).

8. Squeeze tabs on plastic shipping clip and pull clip straight out (FIGURE 4).

9. Latch bolt and mishandling device must have their slanted sides facing the strike plate. If latch bolt and mishandling device face the wrong direction, pull them straight out from lock case and rotate (FIGURE 5). Once rotated, release grip and spring tension will reseat them in the lock case.

10. Install new locking gear into the door (FIGURE 6). It should line up with your stile locator line and sit flush with the face of the door (FIGURE 7). Bottom of locking rod should be flush with bottom of the door (FIGURE 8). Remove the 5/8" long stainless steel machine screw (FIGURE 6) and keep for securing locking gear to middle extension.

11. If the gear does not fit, remove the lock case and modify mortise until proper fit is obtained. When gear and rod fit and line up properly, secure in place with #8 x 1-1/4" flat head Phillips stainless steel screws (Part # 960076 provided).

12. Fit middle extension into mortise on door. Align the four points of the middle extension with the four points on the lock case (FIGURE 9) and slide middle extension completely into mortise and down against the latch. The screw holes must align.
Installation Instructions
Replacing Winkhaus Locking Gear With Hoppe Locking Gear – Part #941994, Middle Extension – Part #941995 & Top Extension – Part #941232
For Door Units From 7-2-5/8 to 8-0 Tall With Shootbolts

The nib on the middle extension fits into the groove of the latch (FIGURE 10). Secure middle extension to locking case with 5/8" long stainless machine screw (removed in Step 10) (FIGURE 10). Secure middle extension to door with #8 x 1-1/4" flat head stainless steel screws (Part #960076 provided) (FIGURE 11).

13. Measure from the top of the door to the top of the installed middle extension (FIGURE 12). Mark top extension at this length.

14. With a hacksaw, cut at bottom of the top extension to achieve this length. DO NOT CUT AT TOP OR SHOOTBOLT WILL BE DAMAGED (FIGURE 13).

15. The toothed bar on the underside of the top extension engages the toothed receiver on the top of the middle extension (FIGURE 14). Remove any burrs or metal particles that would prevent a good fit between the top and middle extensions.

16. Turn top extension so toothed bar is down. Engage bar into toothed receiver on middle extension and lay rest of top extension into door mortise (FIGURE 15). Secure top extension in door with #8 x 1-1/4" flat head stainless steel screws (Part #960076 provided).
Installation Instructions
Replacing Winkhaus Locking Gear With
Hoppe Locking Gear – Part #941994, Middle Extension – Part #941995 &
Top Extension – Part #941232
For Door Units From 7-2-5/8 to 8-0 Tall With Shootbolts

17. Remove the existing roller plates. Install the stainless steel plates included with the new parts. The new roller plate is a three-piece assembly (FIGURE 16).

Install the base plate (FIGURE 17). Then the two strike keepers (FIGURES 18 & 19).

18. Screw roller plates in place using #8 x 1-1/4” flat head Phillips stainless steel screws (Part #960076 provided) (FIGURE 19).

19. Remove existing strike plate from door jamb.

20. Test fit new strike plate to door jamb (FIGURE 20). Modify door jamb rout as needed.

21. When strike plate fits properly, fasten with #8 x 5/8” flat head Phillips stainless steel screws (Part #1019538 provided).

22. Reinstall the interior and exterior escutcheon plates, key cylinder and handles.

NOTE: With door open, locking gear will not operate unless mishandling device is pushed in and held against lock case (FIGURE 21).

23. Before shutting door, check locking gear for proper operation by operating handle while fully depressing mishandling device.

24. Shut door and check locking gear operation. Make necessary adjustments to provide smooth operation and secure locking.
Tools Needed

The replacement hardware kit includes

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock case with bottom locking rod – Hoppe.</td>
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<td>942093</td>
</tr>
<tr>
<td>Top locking rod for 6-8 and 6-10 doors – Hoppe.</td>
<td>1</td>
<td>942094</td>
</tr>
<tr>
<td>OR (based on door height)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top locking rod for 6-10 1/16 through 8-0 doors – Hoppe</td>
<td>1</td>
<td>942095</td>
</tr>
<tr>
<td>Strike plate – stainless steel</td>
<td>1</td>
<td>941356</td>
</tr>
<tr>
<td>Top roller plate – stainless steel</td>
<td>1</td>
<td>941992</td>
</tr>
<tr>
<td>#8 x 1-1/4&quot; flat head Phillips stainless steel screws</td>
<td>20</td>
<td>960076</td>
</tr>
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<td>#8 x 5/8&quot; flat head Phillips stainless steel screws</td>
<td>6</td>
<td>1019538</td>
</tr>
<tr>
<td>Installation Instructions</td>
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<td>1175808</td>
</tr>
</tbody>
</table>

Instructions
1. Open door. Remove interior setscrew from handle. Use a #3 metric hex wrench. Slide the exterior handle and shaft out of the door and locking gear (FIGURE 1).

2. Remove key cylinder setscrew from edge of door. Then remove thumb turn/key cylinder by sliding to the interior (FIGURE 2).

3. Remove interior screws that hold the interior and exterior escutcheon plates together (FIGURE 2). Remove plates.

4. Remove screws from the edge of the door that hold the locking rods to the door (FIGURE 3).

5. Before pulling hardware from the door mark the door stile with a locator line drawn on the stile and through the locator line embossed on the lock case (FIGURE 2). This line ensures that the new hardware goes back in the proper place.
Installation Instructions
Switching From FUHR Automatic-Fire 3-Point or Manual-Fire – From 1/89 through 3/96
To Hoppe Manual 3-Point Locking Gear
For 6-8 – 6-10 Units – Kit F1 Part #1175814
For 6-10-1/16 – 8-0 Units – Kit F2 Part #1175815

6. Align new and old lock cases using the embossed locator lines (FIGURE 4). Mark the bottom of the new locking rod to the length of the existing locking rod. Cut the bottom of the new locking rod even with the old. Cut off using a hacksaw.

7. Remove label covering mishandling device (FIGURE 5).

8. Squeeze tabs on plastic shipping clip and pull clip straight out (FIGURE 5).

9. Latch bolt and mishandling device must have their slanted sides facing the strike plate. If the latch bolt and mishandling device face the wrong way, pull item straight out from lock case and rotate (FIGURE 6). Once rotated, release grip and spring tension will reseat them in the lock case.

10. Try installing new locking gear into the door (FIGURE 7). It should line up with your locator line and sit flush with the face of the door (FIGURE 8). If it lines up properly, secure in place with the #8 x 1-1/4" flat head Phillips stainless steel screws. If the gear does not fit, remove the lock case and modify mortise until proper fit is obtained.

11. Install top locking rod into mortise on door and onto the lock case tangs. The screw holes must align. The nib on the locking rod fits into the groove of the latch (FIGURE 9).
Installation Instructions
Switching From FUHR Automatic-Fire 3-Point or Manual-Fire – From 1/89 through 3/96
To Hoppe Manual 3-Point Locking Gear
For 6-8 – 6-10 Units – Kit F1 Part #1175814
For 6-10-1/16 – 8-0 Units – Kit F2 Part #1175815

12. Remove existing top roller plate.

The existing top roller plate can be reused or the new plate, included in the kit, can be installed.

For Existing Roller Plate
13. Use existing roller plate as template and extend top of mortise 9/16" upwards (FIGURE 10).

For New Roller Plate
13. Use new roller plate as a template. Align new plate’s bottom with bottom of existing mortise and mark revisions to mortise (FIGURE 11).

14. Choose one of the roller plates, modify the mortise as shown, and screw roller plate in place using #8 x 5/8" flat head Phillips stainless steel screws.

15. Remove existing strike plate from door jamb.

16. Use the new strike plate from the kit as a template. Align new plate at bottom of mortise (FIGURE 12).

17. Remove areas shown in (FIGURE 14) and test fit new strike plate. Modify strike plate mortise as needed until new strike plate fits flush with edge and surface of side jamb.

18. Fasten new strike plate with #8 x 1-1/4" flat head Phillips stainless steel screws.

19. Install the interior and exterior escutcheon plates, key cylinder and handles.

20. Check locking gear for proper operation.

Note: The replacement locking gear handles have to be lifted to operate the pins on the door edge.