

TILT-TURN, HOPPER, INSWING CASEMENT AND ROUND TOP TILT-TURN

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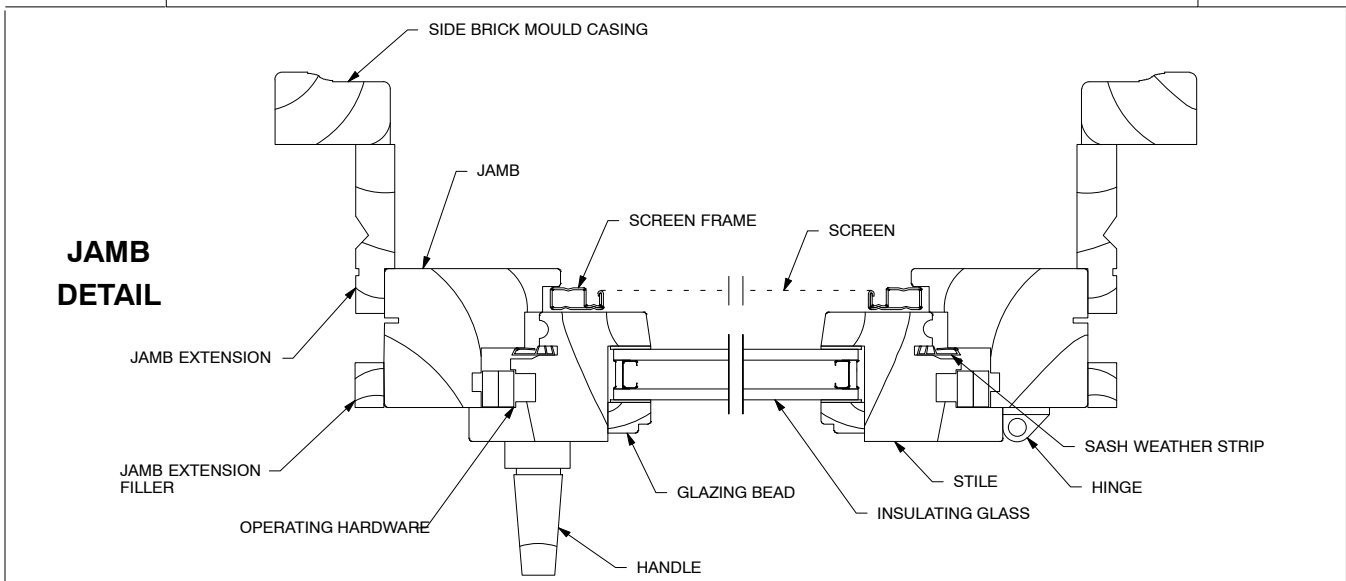
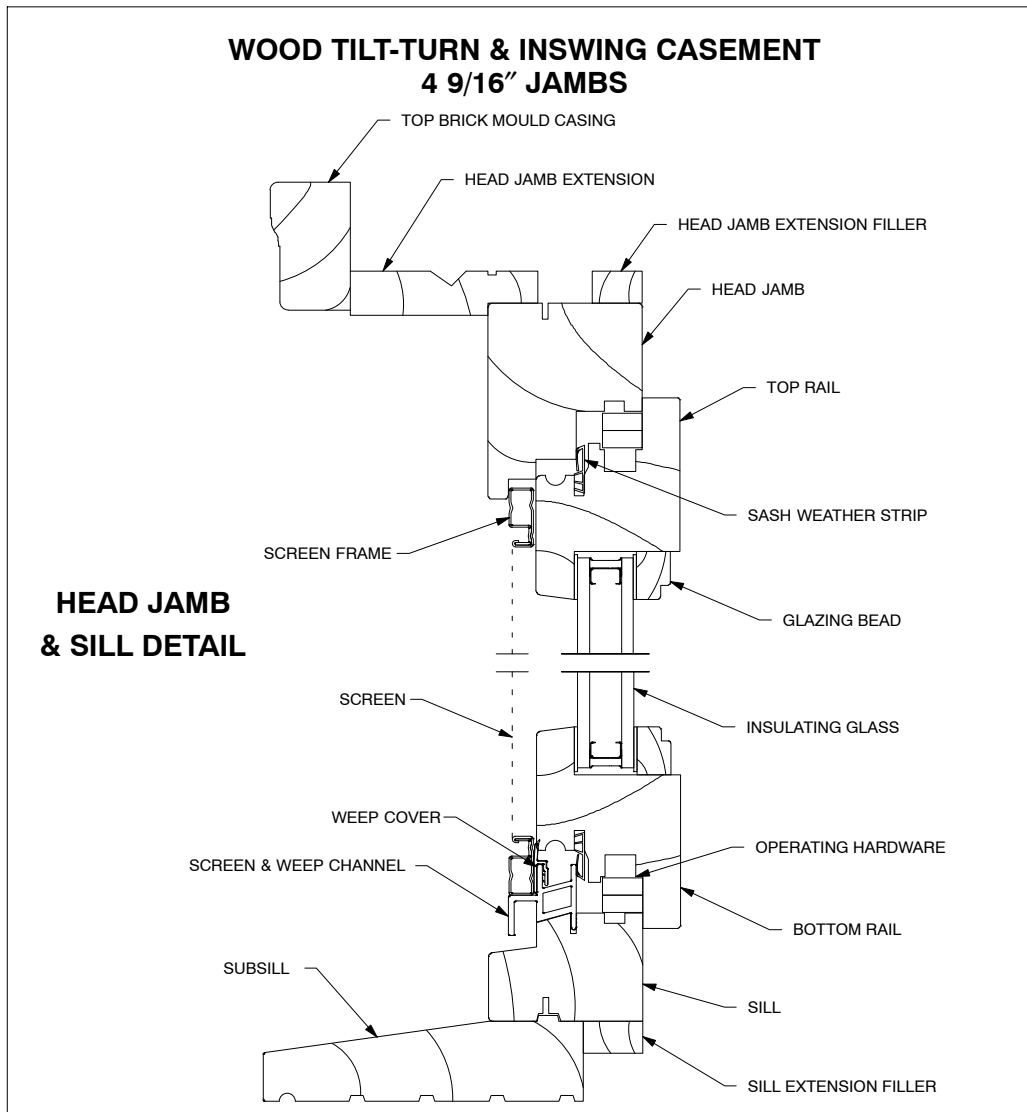
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ATTENTION:

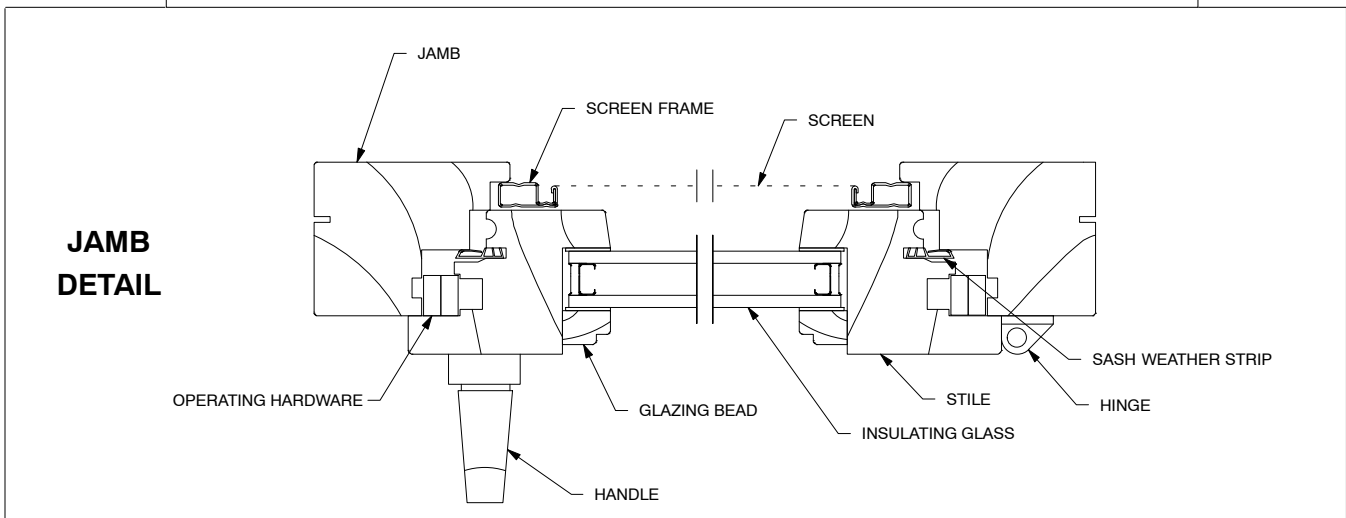
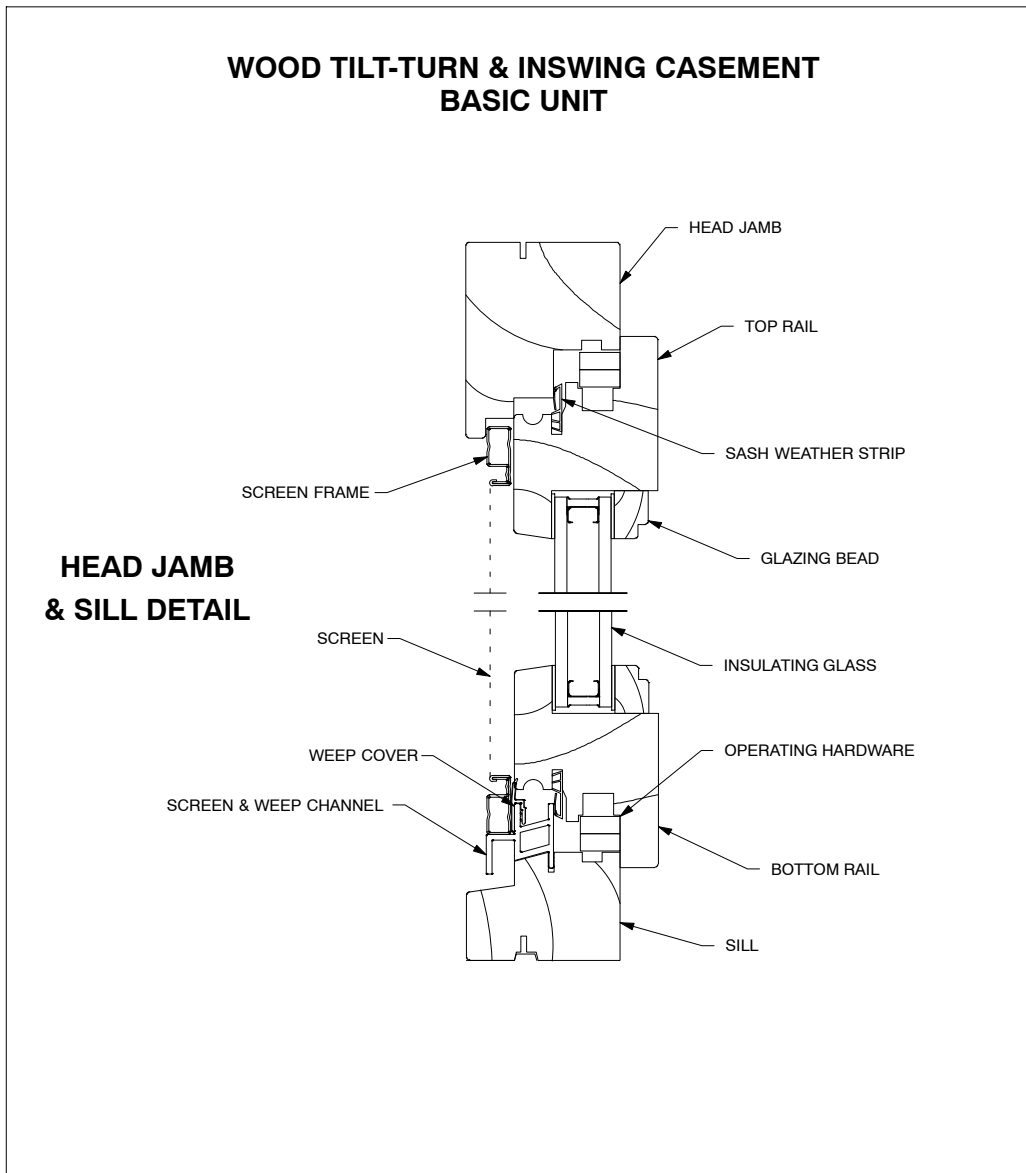
- Specification and technical data are subject to change without notice.
- Numbers listed in parentheses () are metric equivalents in millimeters rounded to the nearest whole number.

HISTORY

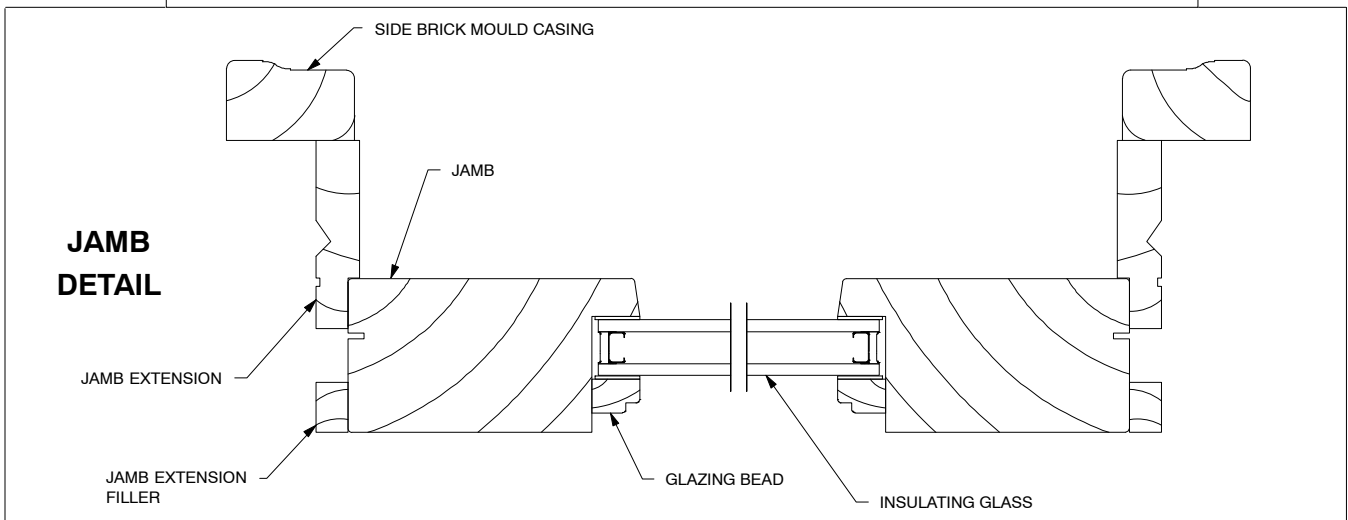
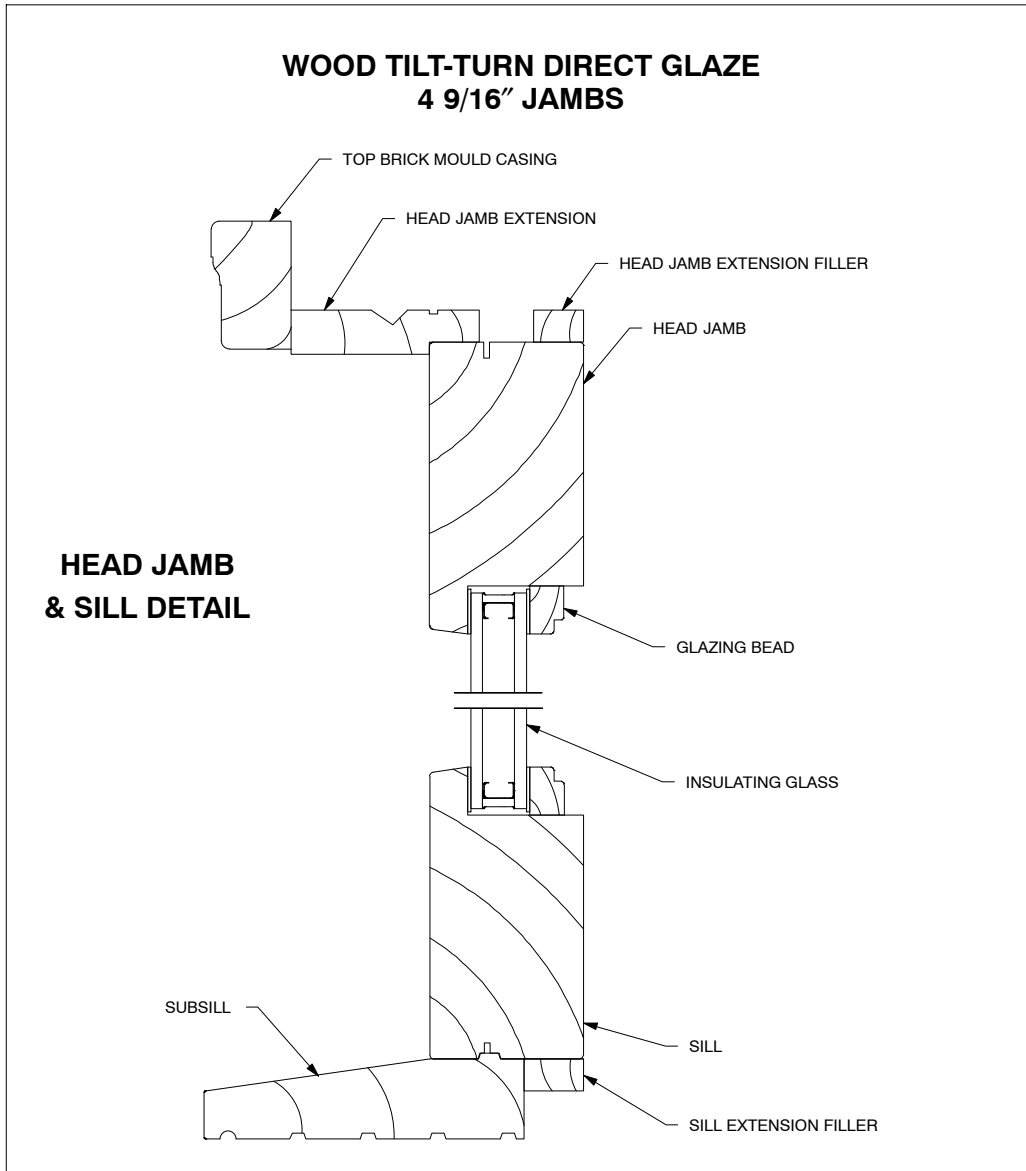
| PRODUCED | UNIT TYPE | FEATURES OR CHANGES | DISCONTINUED |
|----------|---|---|--------------|
| 1984 | Wood and Clad Tilt-Turn, Hopper, Inswing Casement and Round Top Tilt-Turn | Tilt-Turn, Hopper and Inswing Casement introduced. Basic units feature 2 13/32" jambs. Stationary units available as in-sash or keyed units. Tilt-Turns feature unique two mode operation controlled by one handle. Hopper units have one mode of operation, tilting at the top for ventilation. Inswing Casements turn in and do not tilt. These units have no standard sizes. | Present |
| 1985 | Wood Tilt-Turn and Round Top Tilt-Turn | Direct glaze stationary units (without hardware) introduced. | Present |
| 1986 | Wood and Clad Tilt-Turn, Hopper, Inswing Casement and Round Top Tilt-Turn | New jamb extension profiles and attachment location for wood units in early 1986, clad units mid 1986. Because of new profiles and attachment location frame sizes changed in width and height. | Present |
| 1988 | Wood and Clad Tilt-Turn, Inswing Casement and Round Top Tilt-Turn | Handing policy changed from European standard (viewed from the interior) to being viewed from the exterior (Marvin standard). Right or left hand identification on hinges should be disregarded. | Present |
| 1988 | Wood and Clad Tilt-Turn, Hopper and Inswing Casement | Jamb extension for multiple assemblies now applied to the perimeter head jamb, side jambs and sill as well as continuous extensions applied to selected intermediate mulls. | Present |
| 1992 | Wood Tilt-Turn, Hopper, Inswing Casement and Round Top Tilt-Turn | Simulated divided lite option introduced. | Present |
| 1993 | Clad Tilt-Turn, Hopper and Inswing Casement | Introduced factory installed clad brick mould casing and simulated divided lite option. | Present |
| 1994 | Wood and Clad Tilt-Turn, Hopper and Inswing Casement | Interior energy panel surround changed from vinyl to metal. | Present |
| 1997 | Wood and Clad Tilt-Turn, Round Top Tilt-Turn, and Inswing Casement | Top Hinge change. | 2000 |
| 2000 | Wood and Clad Tilt-Turn, Round Top Tilt-Turn and Inswing Casement | 1/26/00 Round Top Tilt-Turn & Tilt-Turn Top and Bottom Hinge change. 1/26/00 Inswing Casement snubber at center changed to a pinned hinge. Top and Bottom Hinge change. | Present |
| 2000 | Wood and Clad Hopper | 9/00 Frame and sash snubber changed. | Present |
| 2002 | Clad Tilt-Turn, Hopper and Inswing Casement | 3/02 Stone White becomes a standard color. Arctic White transitions to a select color. | Present |
| 2006 | Tilt-Turn, Inswing, Hopper | 5/22/06 Roto Centro 101 (YZD) hardware was discontinued and replaced with the Roto NT (metal gray) hardware system. | Present |
| 2009 | Tilt-Turn, Inswing | 6/22/09 New part numbers for bottom corner hinge, pivot rest, and caps. Design change by supplier. | Present |
| 2010 | MTT, MICA, MHOP, MSTA, MSTA KEY | 2/03/2010 Added a .313 by .031 thick bumper to the glazing bed of the Magnum Tilt-Turn units (wood and clad). | Present |
| 2011 | All | 04/25/2011 Added LoE-180™ as a standard option for all products. White painted interior finish option introduced for all products. | Present |
| 2012 | Wood and Clad Tilt-Turn | 02/27/2012 Upgraded screen which will now offer Hi Transparency screen mesh as the standard. | Present |
| | All | 10/29/2012 Interior Square Sticking/Glazing Bead option introduced. | |
| | All | 12-17-2012 Introduced Clear interior finish option on all products. | |
| 2013 | All | 04/29/2013 Introduced interior stain options. Stain colors are Wheat, Honey, Leather, Hazelnut, Cabernet and Espresso. | Present |



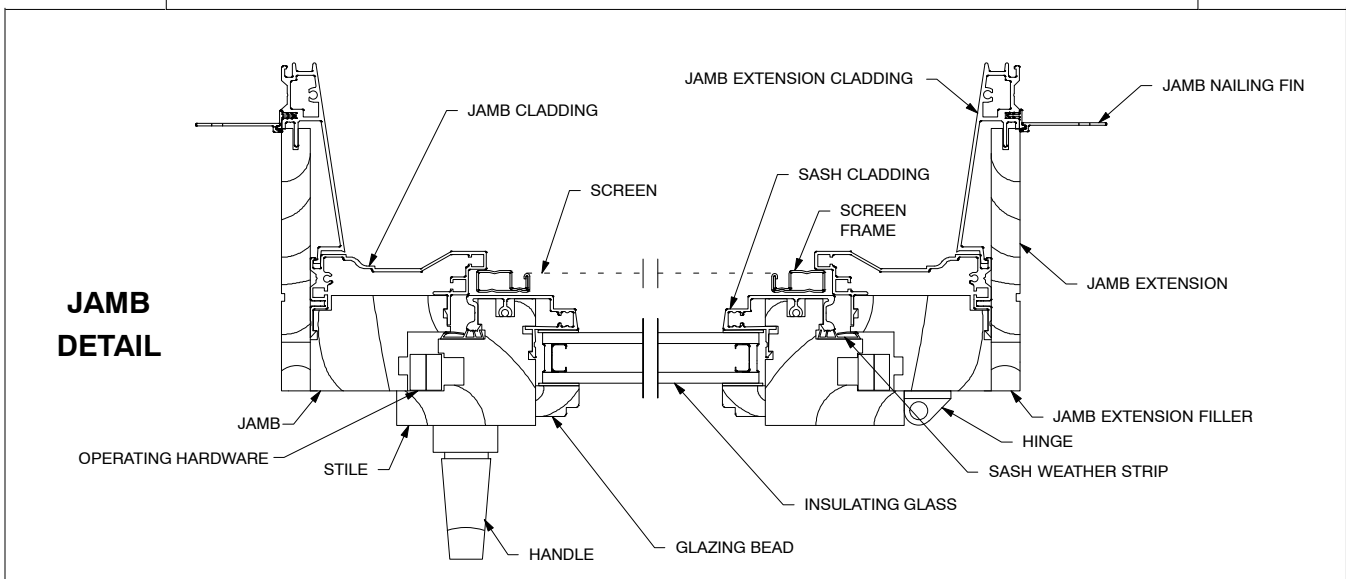
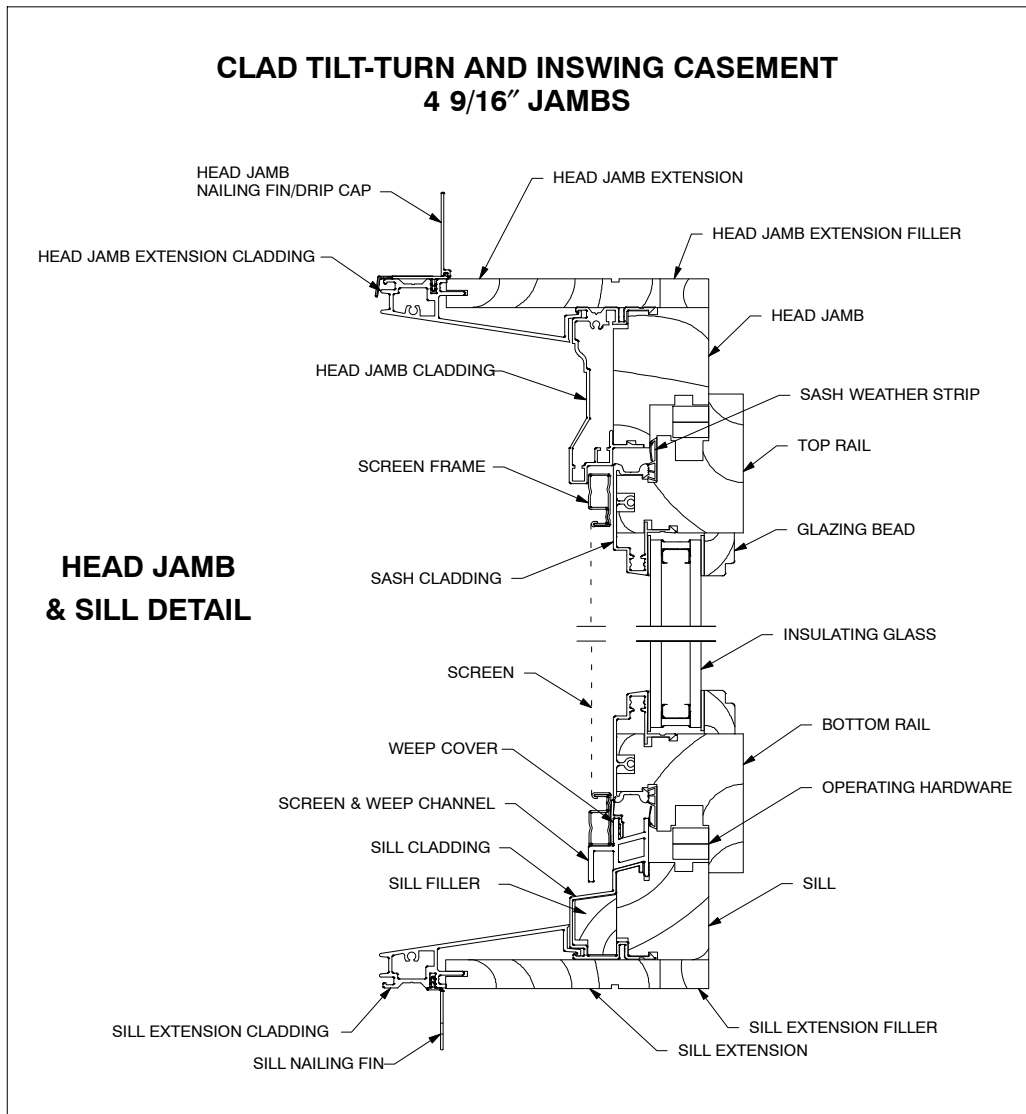
NOTE: Not to scale; specifications subject to change without notice. Hopper part identification is the same as above with the exception of handle location.



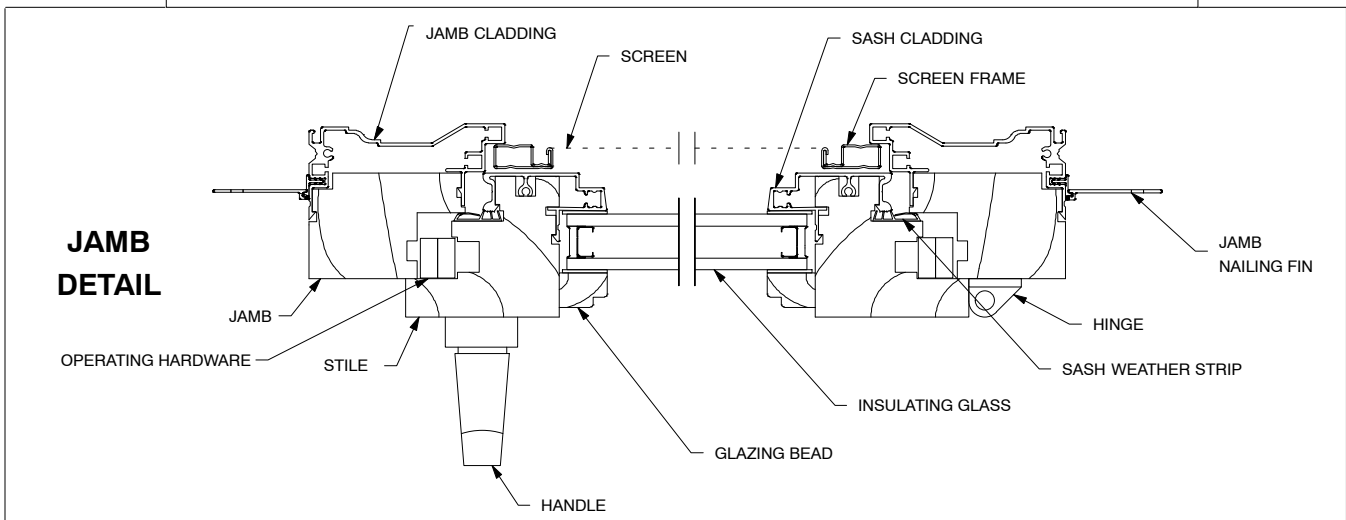
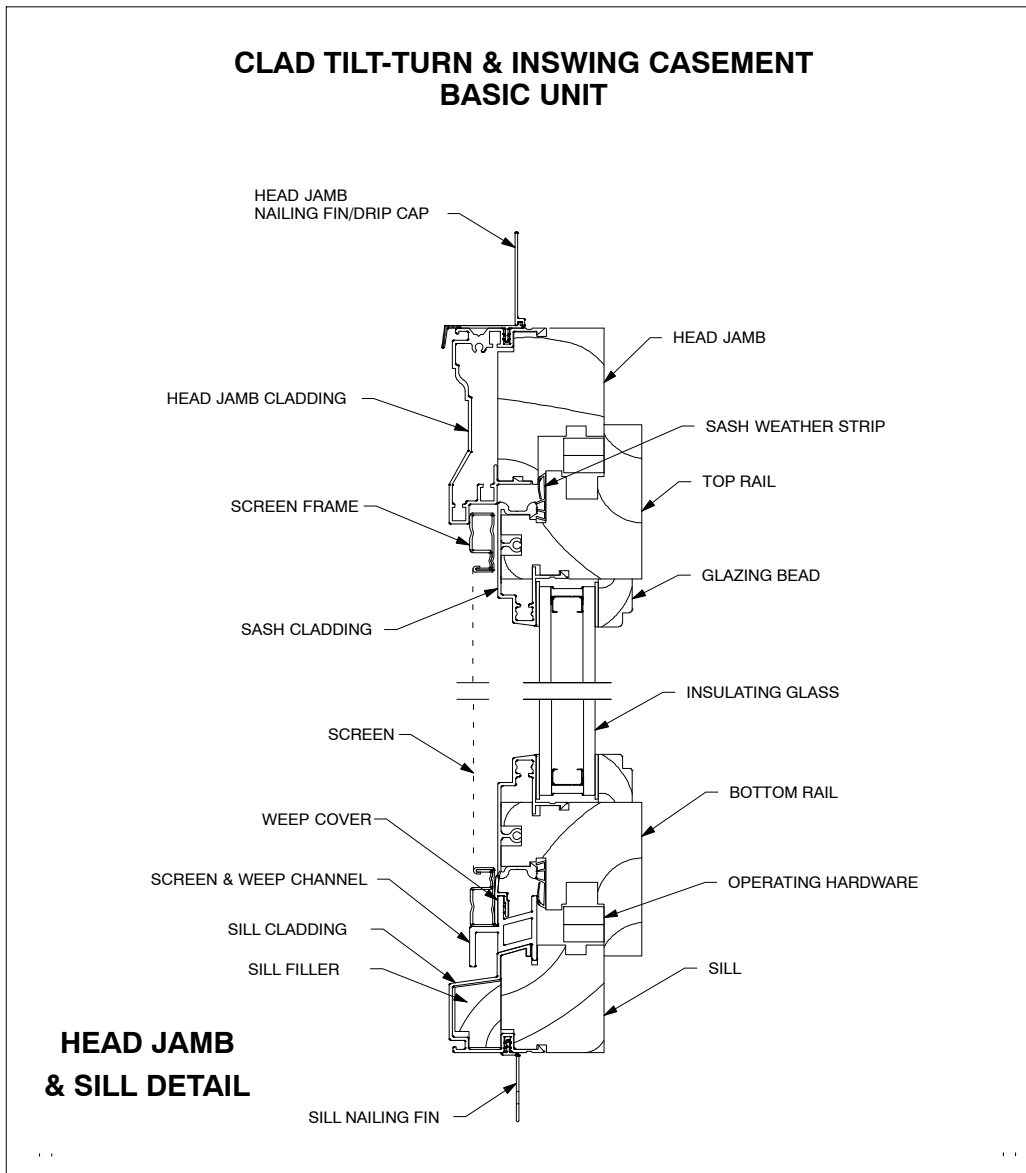
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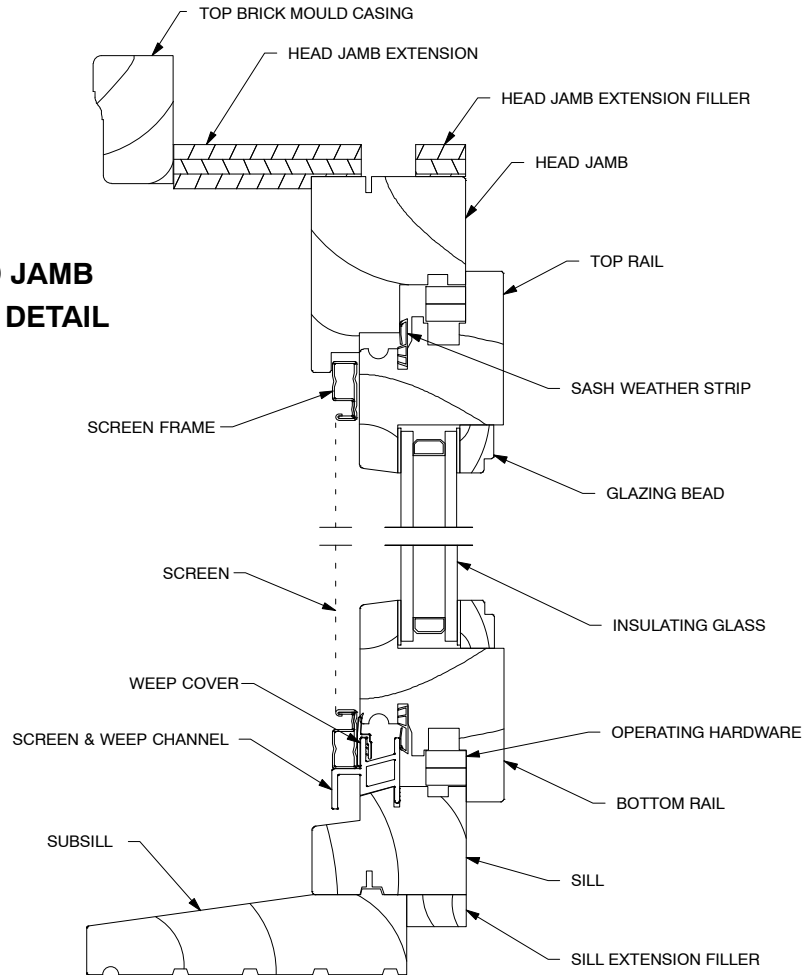
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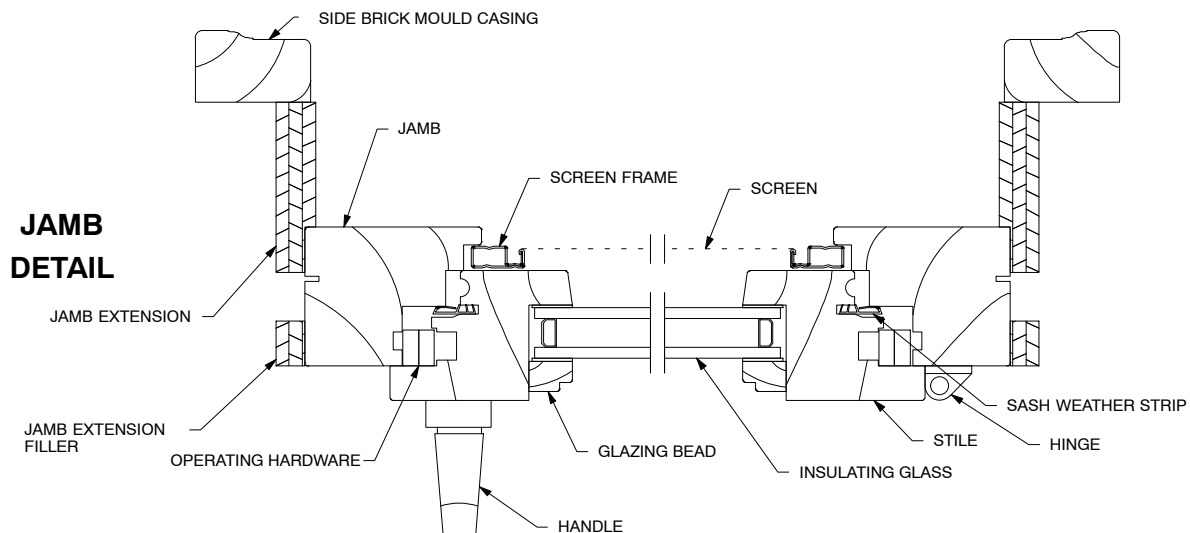
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**WOOD ROUND TOP TILT-TURN AND INSWING CASEMENT
 4 9/16" JAMBS**

**HEAD JAMB
 & SILL DETAIL**



**JAMB
 DETAIL**

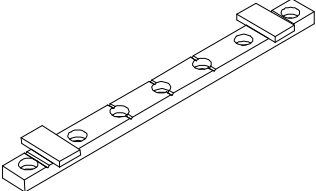
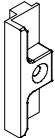
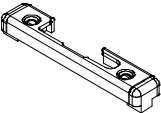
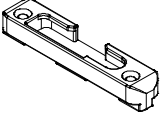
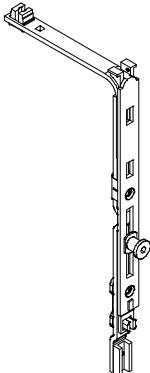
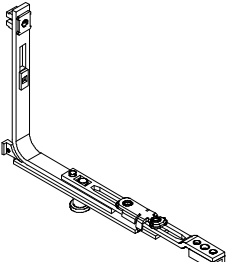


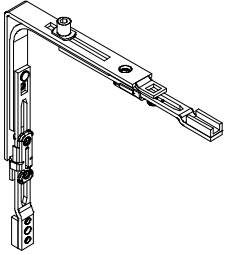
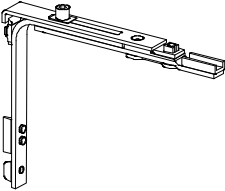


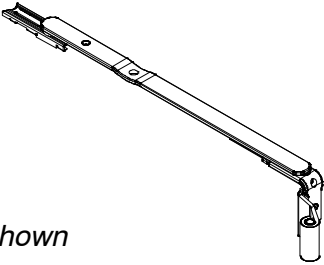
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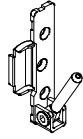
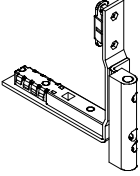


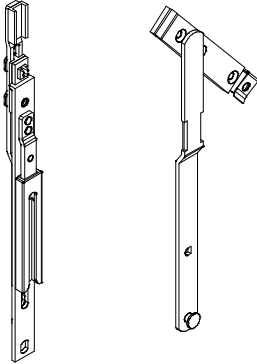

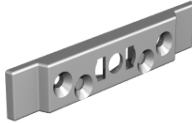



When ordering replacement Tilt-Turn parts specify:



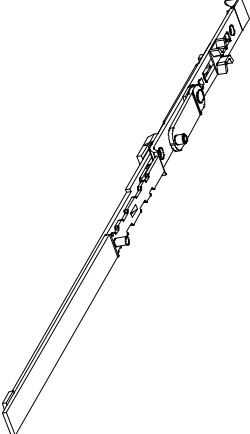
1. type of unit;
2. part number;
3. description.


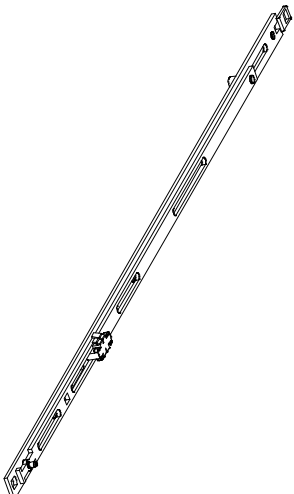
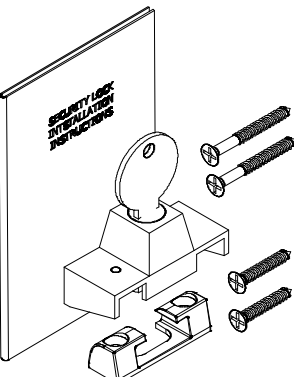
NOTE: Always determine handing of parts from the exterior (hinged side). Since the vendor determines handing from the interior, some parts may be stamped with an "L" or "R." **For Marvin handing identification**, an "L" will mean right hand and an "R" will mean left hand. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|---|--|-----------------|----------------------|
|  | Groove Packer / Spacer K606A81 | | 10815171 |
|  | Striker <i>Includes:</i> 1 - Striker 1 - #8x1 1/2" Phillips flat head screws (11808110) | | 10811701 |
|  LH Shown | Striker, Steel Security <i>Includes:</i> 1 - Steel Security Striker 2 - #8x1 1/2" Phillips flat head screws (11808110) | LH RH | 10811767 10811768 |
|  LH Shown | Striker, Tilt-Turn <i>Includes:</i> 1 - Tilt-Turn Striker 2 - #8x1 1/2" Phillips flat head screws (11808110) | LH RH | 10811746 10811747 |
|  | Corner Drive, Stay <i>Includes:</i> 1 - Corner Drive, Stay 2 - #6x1 1/2" Phillips flat head screws (11800103) | | 10811714 |
|  | Corner Drive, Tilt-Turn <i>Includes:</i> 1 - Corner Drive Tilt-Turn 1 - #6x1 1/2" Phillips flat head screws (11800103) | | 10811713 |

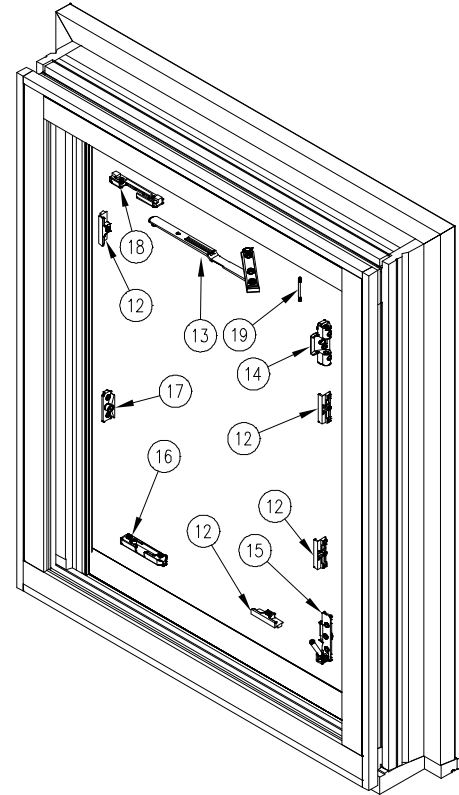
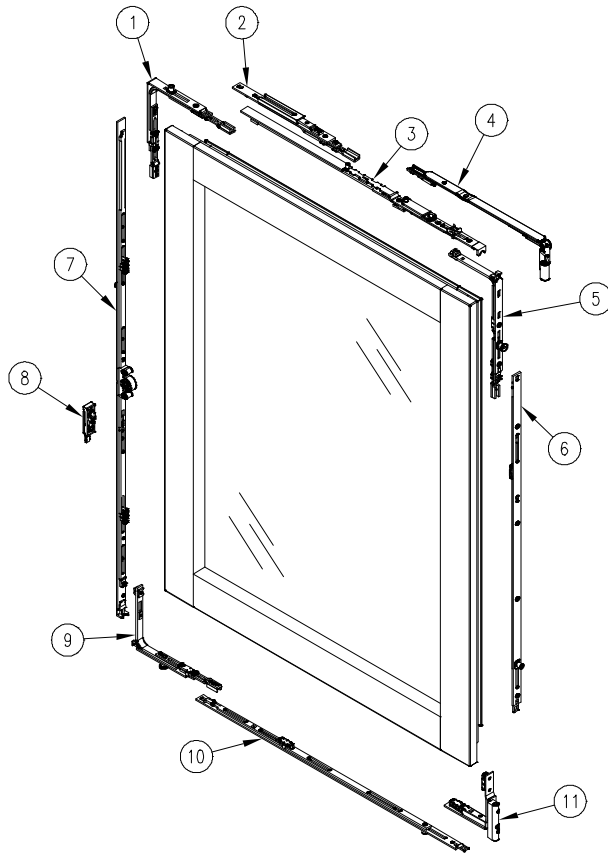
| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|---|--|--|--|
|  | <p>Corner Drive, E-Cam Includes: 1 - Corner Drive, E-Cam 2 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10811700 |
|  | <p>Corner Drive, Special Includes: 1 - Corner Drive, Special 2 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10811759 |
|  | <p>Mishandling Device, Frame Includes: 1 - Mishandling Device, Frame 2 - #8x1 1/2" Phillips flat head screws (11808110)</p> | | 10811744 |
|  | <p>Mishandling Device, Sash Includes: 1 - Mishandling Device Sash 1 - #6x1 1/2" Phillips flat head screws (11808103)</p> | | 10811745 |
|  <p>LH Shown</p> | <p>Arm, Sash Stay Includes: 1 - Sash Stay Arm</p> | <p>290-410, 150mm LH 290-410, 150mm RH 411-600, 250mm LH 411-600, 250mm RH 601-800, 350mm LH 601-800, 350mm RH 801-1400, 500mm LH 801-1400, 500mm RH</p> | <p>10811715 10811716 10811717 10811718 10811719 10811720 10811721 10811722</p> |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|---|------------------|------------------------------|
| <p>LH Shown</p>  | <p>Pivot Rest LH or RH Corner <i>Includes:</i> 1 - Pivot Rest 3 - #8x1 1/2" Phillips flat head screws (11808110)</p> | <p>LH RH</p> | <p>10811752 10811753</p> |
| <p>LH Shown</p>  | <p>Hinge LH or RH Corner <i>Includes:</i> 1 - Hinge 6 - #6x1 1/2" Phillips flat head screws (11800103)</p> | <p>LH RH</p> | <p>10811754 10811755</p> |
|  | <p>Bearing, Sash Stay <i>Includes:</i> 1 - Bearing 3 - #8x1 1/2" Phillips flat head screws (11808110)</p> | | <p>10811742</p> |
|  | <p>Pin, Sash Stay Bearing <i>Includes:</i> 1 - Sash Stay Bearing Pin</p> | | <p>10811743</p> |
|  | <p>Additional Scissor Stay* (sash and frame) <i>Includes:</i> 1 - Additional Scissor Stay (2 piece) 2 - #6x1 1/2" Phillips flat head screws (11800103) 2 - #8x1 1/2" Phillips flat head screws (11808110)</p> <p>* Unit must have 36" minimum width</p> | | <p>10811769</p> |
| <p>(a) </p> <p>(b) </p> <p>(c) </p> <p>(d) </p> <p>(e) </p> | <p>Turn Restrictor Field Applied Kit <i>Includes:</i> 1 - Turn Restrictor 335mm (10811774) (a) 1 - Bearing (10811775) (b) 1 - Groove Packer (10815171) (c) 4 - #6 x 1 1/2" Phillips flat head screws (11800103) (d) 2 - #8 x 1 1/2" Phillips flat head screws (11808110) (e) 1 - Instruction</p> <p>NOTE: This kit is for products with a minimum sash OSM width of 25 1/2" (648mm) AND built after 5/22/2006.</p> | | <p>11852602</p> |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | LENGTH | PART NO. |
|---|--|---|----------|
|  | <p>Espagnolette Includes: 1 - Espagnolette</p> | <p>Sash O.M. Height 12 7/16"–20 5/16" 10811723 20 3/8"–25 1/16" 10811724 25 1/8"–32 15/16" 10811725 33"–40 13/16" 10811726 40 7/8"–48 11/16" 10811727 48 3/4"–56 9/16" 10811728 56 5/8"–64 7/16" 10811729 64 1/2"–72 5/16" 10811730 72 3/8"–80 3/16" 10811731 80 1/4"–88 1/16" 10811732 88 1/8"–95 15/16" 10811733</p> | |
|  | <p>Espagnolette, Centered Handle Includes: 1 - Espagnolette</p> | <p>Sash O.M. Height 13 5/8"–19 1/8" 10811702 19 1/4"–25 7/8" 10811703 25 7/8"–32 15/16" 10811704 33"–48 11/16" 10811705 48 3/4"–64 7/16" 10811706 64 1/2"–80 3/16" 10811707 80 1/4"–95 15/16" 10811708</p> | |
|  | <p>Guide, Sash Stay Includes: 1 - Sash Stay Guide</p> | <p>Sash O.M. Width 12 7/8"–17 9/16" 10811734 17 5/8"–25 1/16" 10811735 25 1/8"–32 15/16" 10811736 33"–40 13/16" 10811737 40 7/8"–48 11/16" 10811738 48 3/4"–56 9/16" 10811739</p> | |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | LENGTH/COLOR | PART NO. |
|---|--|--|--|
|  | <p>Espagnolette Extension</p> <p><i>Includes:</i> 1 - Extension</p> | <p>200mm 200mm w/Cam 400mm w/Cam 270mm (croppable)</p> | <p>10811771 10811772 10811773 10811770</p> |
|  | <p>Center Lock</p> <p><i>Includes:</i> 1 - Center Lock</p> | <p>600mm 600mm w/connector</p> | <p>10811750 10811751</p> |
|  | <p>Security Lock Kit</p> <p><i>Includes:</i> 1 - Security Lock/Keeper/Key (10811781 Metal gray, 1081782 White) 2 - #8x1" SS flat head screws (11800805) 2 - #8x1 1/2" Phillips flat head screws (11808110) 1 - Installation instruction</p> | <p>Metal Gray White</p> | <p>11852600 11852601</p> |

**WOOD MAGNUM TILT-TURN
 Frame and Sash Hardware Locations**

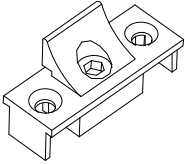
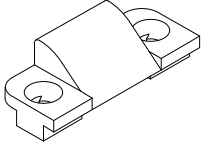
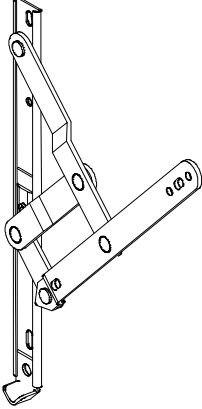
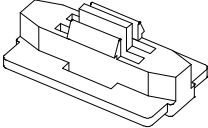


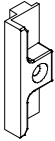
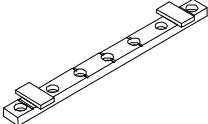
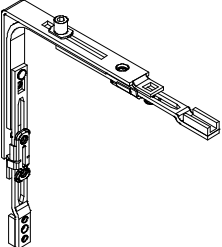
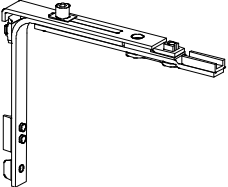
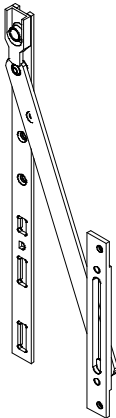
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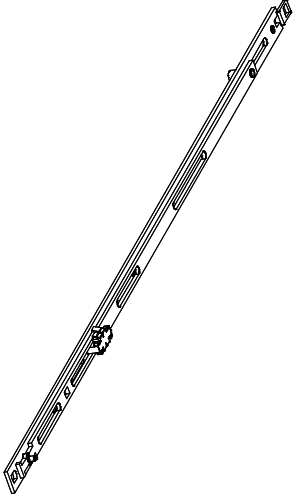


- | | | |
|---------------------------------|-----------------------------------|------------------------------|
| 1. Corner Drive E-Cam | 8. Mishandling Device Sash | 15. Pivot Rest |
| 2. Additional Scissor Stay-Sash | 9. Corner Drive Tilt-Turn | 16. Striker, Tilt-Turn |
| 3. Sash Stay Guide | 10. Center Lock, 600mm | 17. Mishandling Device Frame |
| 4. Sash Stay Arm | 11. Corner Hinge | 18. Steel Security Striker |
| 5. Corner Drive Stay | 12. Striker | 19. Pin, Sash Stay Bearing |
| 6. Center Lock, 600mm | 13. Additional Scissor Stay-Frame | |
| 7. Espagnolette | 14. Sash Stay Bearing | |

When ordering replacement Hopper parts specify:

1. type of unit;
2. part number;
3. description.

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | LENGTH/COLOR | PART NO. | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------|------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|----------------|----------------|---------------------|---------------------|----------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|------------------------|
|  | <p>Snubber (Sash) 872833 <i>Includes:</i> 1 - Sash snubber 2 - #6x1 1/2" Phillips flathead wood screws (11808103)</p> | | 10815147 | | | | | | | | | | | | | | | | | | | | |
|  | <p>Snubber (Frame) 873267 <i>Includes:</i> 1 - Frame snubber 2 - #8x1 1/2" Phillips flathead wood screws (11808110)</p> | | 10815148 | | | | | | | | | | | | | | | | | | | | |
|  | <p>Hinge <i>Includes:</i> 1 - Hinge</p> <table border="0"> <thead> <tr> <th>Hinge Height</th> <th>Sash O.M. Height</th> </tr> </thead> <tbody> <tr><td>10" (254)</td><td>13 3/16" - 19 3/16"</td></tr> <tr><td>12" (305)</td><td>19 1/4" - 25 3/16"</td></tr> <tr><td>16" (406)</td><td>25 1/4" - 32 15/16"</td></tr> <tr><td>16" (406)</td><td>33" - 37 3/16"</td></tr> <tr><td>20" (508)</td><td>37 1/4" - 41 15/16"</td></tr> <tr><td>20" (508)</td><td>42" - 48 3/16"</td></tr> <tr><td>20" (508)</td><td>48 1/4" - 52 3/16"</td></tr> <tr><td>24" (610)</td><td>52 1/4" - 55 3/16"</td></tr> <tr><td>28" (711)</td><td>55 1/4" - 59 3/16"</td></tr> </tbody> </table> | Hinge Height | Sash O.M. Height | 10" (254) | 13 3/16" - 19 3/16" | 12" (305) | 19 1/4" - 25 3/16" | 16" (406) | 25 1/4" - 32 15/16" | 16" (406) | 33" - 37 3/16" | 20" (508) | 37 1/4" - 41 15/16" | 20" (508) | 42" - 48 3/16" | 20" (508) | 48 1/4" - 52 3/16" | 24" (610) | 52 1/4" - 55 3/16" | 28" (711) | 55 1/4" - 59 3/16" | | Check for availability |
| | Hinge Height | Sash O.M. Height | | | | | | | | | | | | | | | | | | | | | |
| 10" (254) | 13 3/16" - 19 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 12" (305) | 19 1/4" - 25 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 16" (406) | 25 1/4" - 32 15/16" | | | | | | | | | | | | | | | | | | | | | | |
| 16" (406) | 33" - 37 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 20" (508) | 37 1/4" - 41 15/16" | | | | | | | | | | | | | | | | | | | | | | |
| 20" (508) | 42" - 48 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 20" (508) | 48 1/4" - 52 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 24" (610) | 52 1/4" - 55 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 28" (711) | 55 1/4" - 59 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| <p>Hinge, Stainless Steel <i>Includes:</i> 1 - Hinge</p> <table border="0"> <thead> <tr> <th>Hinge Height</th> <th>Sash O.M. Height</th> </tr> </thead> <tbody> <tr><td>10" (254)</td><td>13 3/16" - 19 3/16"</td></tr> <tr><td>12" (305)</td><td>19 1/4" - 25 3/16"</td></tr> <tr><td>16" (406)</td><td>25 1/4" - 32 15/16"</td></tr> <tr><td>16" (406)</td><td>33" - 37 3/16"</td></tr> <tr><td>20" (508)</td><td>37 1/4" - 41 15/16"</td></tr> <tr><td>20" (508)</td><td>42" - 48 3/16"</td></tr> <tr><td>20" (508)</td><td>48 1/4" - 52 3/16"</td></tr> <tr><td>24" (610)</td><td>52 1/4" - 55 3/16"</td></tr> <tr><td>28" (711)</td><td>55 1/4" - 59 3/16"</td></tr> </tbody> </table> | Hinge Height | Sash O.M. Height | 10" (254) | 13 3/16" - 19 3/16" | 12" (305) | 19 1/4" - 25 3/16" | 16" (406) | 25 1/4" - 32 15/16" | 16" (406) | 33" - 37 3/16" | 20" (508) | 37 1/4" - 41 15/16" | 20" (508) | 42" - 48 3/16" | 20" (508) | 48 1/4" - 52 3/16" | 24" (610) | 52 1/4" - 55 3/16" | 28" (711) | 55 1/4" - 59 3/16" | | 10814431 10814436 10814432 10814432 10814433 10814433 10814433 10814434 10814435 | |
| Hinge Height | Sash O.M. Height | | | | | | | | | | | | | | | | | | | | | | |
| 10" (254) | 13 3/16" - 19 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 12" (305) | 19 1/4" - 25 3/16" | | | | | | | | | | | | | | | | | | | | | | |
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| 24" (610) | 52 1/4" - 55 3/16" | | | | | | | | | | | | | | | | | | | | | | |
| 28" (711) | 55 1/4" - 59 3/16" | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>Restrictor, 90° Travel <i>Includes:</i> 1 - Restrictor</p> | | 10811710 | | | | | | | | | | | | | | | | | | | | |


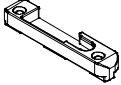
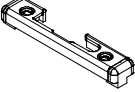
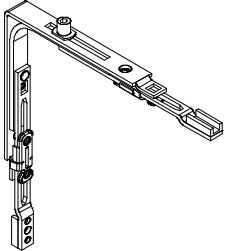
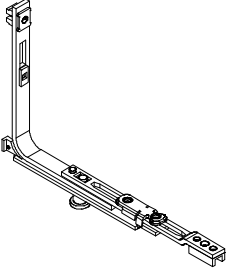
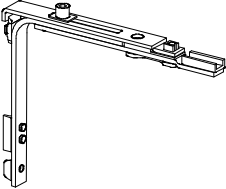


| ILLUSTRATION NOT TO SCALE | DESCRIPTION | LENGTH | PART NO. |
|---|---|--------|----------|
|  | <p>Striker Includes: 1 - Striker 1 - #8x1 1/2" Phillips flat head screws (11808110)</p> | | 10811701 |
|  | <p>Spacer K606A81 Includes: 1 - Spacer</p> | | 10815171 |
|  | <p>Corner Drive, E-Cam Includes: 1 - Corner Drive, E-Cam 2 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10811700 |
|  | <p>Corner Drive, Special Includes: 1 - Corner Drive, Special 2 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10811759 |
|  | <p>Tilt Stay Includes: 1 - Tilt Stay 2 - #6x1 1/2" Phillips flat head screws (11800103) 2 - #8x1 1/2" Phillips flat head screws (11808110)</p> | | 10811711 |

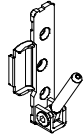
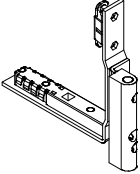
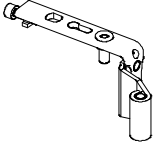
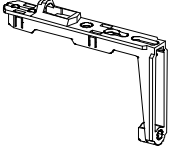

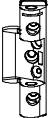
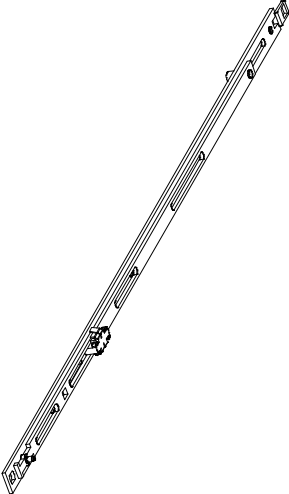
| ILLUSTRATION NOT TO SCALE | DESCRIPTION | LENGTH | PART NO. |
|---|--|---|---|
|  | <p>Center Lock Includes: 1 - Center Lock</p> | <p>200mm 400mm</p> | <p>10811776 10811709</p> |
|  | <p>Espagnolette, Centered Handle Includes: 1 - Espagnolette</p> | <p>Sash O.M. Width 13 5/8" - 19 1/8" 19 1/4" - 25 7/8" 25 7/8" - 32 15/16" 33" - 48 11/16" 48 3/4" - 64 7/16" 64 1/2" - 80 3/16" 80 1/4" - 95 15/16"</p> | <p>10811702 10811703 10811704 10811705 10811706 10811707 10811708</p> |
|  | <p>Espagnolette Extension Includes: 1 - Extension</p> | <p>200mm 200mm w/Cam 400mm w/Cam 270mm (croppable)</p> | <p>10811771 10811772 10811773 10811770</p> |

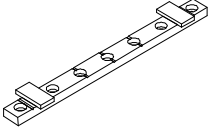
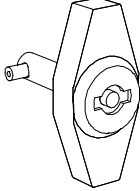

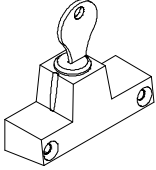
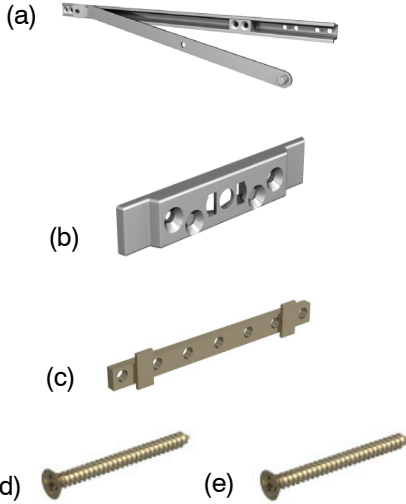
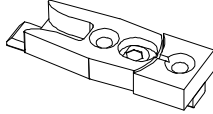
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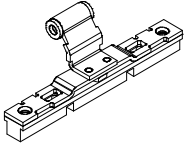
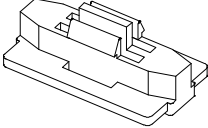

1. type of unit;
2. part number;
3. description.



NOTE: Always determine handing of parts from the exterior (hinged side). Since the vendor determines handing from the interior, some parts may be stamped with an "L" or "R." **For Marvin handing identification**, an "L" will mean right hand and an "R" will mean left hand. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | COLOR | PART NO. |
|---|---|----------|----------------------|
|  | <p>Striker Includes: 1 - Striker 1 - #8x1 1/2" Phillips flat head screws (11808110)</p> | | 10811701 |
| <p>LH Shown</p>  | <p>Striker, Security Includes: 1 - Security Striker 2 - #8x1 1/2" Phillips flat head screws (11808110)</p> | LH RH | 10811760 10811761 |
| <p>LH Shown</p>  | <p>Striker, Steel Security Includes: 1 - Steel Security Striker 2 - #8x1 1/2" Phillips flat head screws (11808110)</p> | LH RH | 10811767 10811768 |
|  | <p>Corner Drive, E-Cam Includes: 1 - Corner Drive, E-Cam 2 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10811700 |
|  | <p>Corner Drive, Tilt-Turn Includes: 1 - Corner Drive Tilt-Turn 1 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10811713 |
|  | <p>Corner Drive, Special Includes: 1 - Corner Drive, Special 2 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10811759 |
|  | <p>Mishandling Device, Frame Includes: 1 - Mishandling Device Frame 2 - #8x1 1/2" Phillips flat head screws (11808110)</p> | | 10811744 |
|  | <p>Mishandling Device, Sash Includes: 1 - Mishandling Device Sash 1 - #6x1 1/2" Phillips flat head screws (11808103)</p> | | 10811745 |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | COLOR | PART NO. |
|---|--|---------------------------------------|---|
| <p>LH Shown</p>  | <p>Pivot Rest LH or RH Corner <i>Includes:</i> 1 - Pivot Rest 3 - #8x1 1/2" Phillips flat head screws (11808110)</p> | <p>LH RH</p> | <p>10811752 10811753</p> |
| <p>LH Shown</p>  | <p>Hinge LH or RH Corner <i>Includes:</i> 1 - Hinge 6 - #6x1 1/2" Phillips flat head screws (11800103)</p> | <p>LH RH</p> | <p>10811754 10811755</p> |
| <p>LH Shown</p>  | <p>Rebate Hinge, Arm <i>Includes:</i> 1 - Rebate Hinge, Arm</p> | <p>LH RH</p> | <p>10811763 10811766</p> |
|  | <p>Rebate Hinge, Sash <i>Includes:</i> 1 - Rebate Hinge, Sash 3 - #6x1 1/2" Phillips flat head screws (11800103)</p> | | <p>10811762</p> |
|  | <p>Pin, Sash Stay Bearing <i>Includes:</i> 1 - Sash Stay Bearing Pin</p> | | <p>10811743</p> |
|  | <p>Bearing, Sash Stay <i>Includes:</i> 1 - Bearing 3 - #8x1 1/2" Phillips flat head screws (11808110)</p> | | <p>10811742</p> |
|  | <p>Center Lock <i>Includes:</i> 1 - Center Lock</p> | <p>600mm</p> | <p>10811750</p> |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | COLOR | PART NO. |
|---|--|-------------------------|----------|
|  | <p>Groove Packer / Spacer K606A81 <i>Includes:</i> 1 - Spacer</p> | | 10815171 |
|  | <p>Stationary Lock <i>Includes:</i> 1 - Stationary lock 2 - #8x35mm Phillips head machine screws</p> | BZ | 10815124 |
|  | <p>Stationary Lock Handle <i>Includes:</i> 1 - Stationary lock Handle</p> | | 10820313 |
|  | <p>Security Lock <i>Includes:</i> 1 - Security Lock 2 - #8x1 1/2" Phillips flat head screws (11808110) 2 - #6x1 1/2" Phillips flat head screws (11800103)</p> | Metal Gray White | NA |
|  | <p>Turn Restrictor Field Applied Kit <i>Includes:</i> Turn Restrictor Field Applied Kit <i>Includes:</i> - Turn Restrictor 335mm (10811774) (a) 1 - Bearing (10811775) (b) 1 - Groove Packer (10815171) (c) 4 - #6 x 1 1/2" Phillips flat head screws (11800103) (d) 2 - #8 x 1 1/2" Phillips flat head screws (11808110) (e) 1 - Instruction</p> | | 11852602 |
|  | <p>Strike R604C51 <i>Includes:</i> 1 - Strike 2 - #8x1 1/2" Phillips flathead wood screws</p> | | 10815112 |

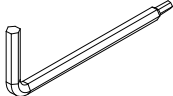
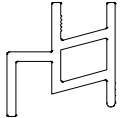

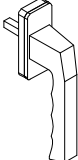
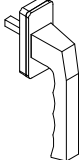
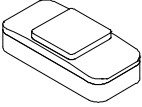
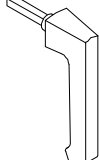
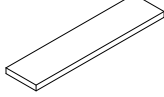
| ILLUSTRATION NOT TO SCALE | DESCRIPTION | LENGTH/COLOR | PART NO. |
|--|---|---|---|
|  | <p>Turn Only Rebate Hinge with Alignment</p> <p><i>Includes:</i> 1 – Turn Only Rebate Hinge 4 – #6x1 1/2" Phillips flat head screws (11800103)</p> | | 10815174 |
|  | <p>Restrictor, 90° Travel</p> <p><i>Includes:</i> 1 – Restrictor</p> | | 10811710 |
|  | <p>Espagnolette Extension</p> <p><i>Includes:</i> 1 – Extension</p> | <p>200mm 200mm w/Cam 400mm w/Cam 270mm (croppable)</p> | <p>10811771 10811772 10811773 10811770</p> |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | LENGTH | PART NO. |
|---|---|--|----------|
|  | <p>Espagnolette <i>Includes:</i> 1 - Espagnolette</p> | <p>Sash O.M. Height 12 7/16" - 20 5/16" 10811723 20 3/8" - 25 1/16" 10811724 25 1/8" - 32 15/16" 10811725 33" - 40 13/16" 10811726 40 7/8" - 48 11/16" 10811727 48 3/4" - 56 9/16" 10811728 56 5/8" - 64 7/16" 10811729 64 1/2" - 72 5/16" 10811730 72 3/8" - 80 3/16" 10811731 80 1/4" - 88 1/16" 10811732 88 1/8" - 95 15/16" 10811733</p> | |
|  | <p>Espagnolette, Centered Handle <i>Includes:</i> 1 - Espagnolette</p> | <p>Sash O.M. Height 13 5/8" - 19 1/8" 10811702 19 1/4" - 25 7/8" 10811703 25 7/8" - 32 15/16" 10811704 33" - 48 11/16" 10811705 48 3/4" - 64 7/16" 10811706 64 1/2" - 80 3/16" 10811707 80 1/4" - 95 15/16" 10811708</p> | |

MISCELLANEOUS PARTS

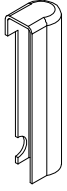
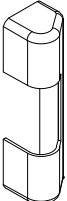

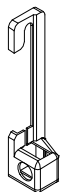
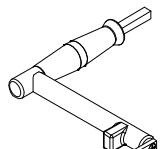
When ordering replacement miscellaneous parts specify:

1. type of unit;
2. part number;
3. description.

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | COLOR | PART NO. |
|---|--|----------------------------|--|
|  | Allen Wrench P010A 24 <i>5/32" hex wrench with recessed 3/32" end</i> | | 10815357 |
|  | Screen and Weep Channel V469 <i>Attached with #6x3/4" square drive truss head screws (11800675)</i> | WH BZ BG | 15620000 15630000 15620001 |
|  | Weep Cover V470 | AR BZ PB SW BG | N/A 15632099 N/A 15631299 15631199 |
|  | Pistol Grip Handle <i>Includes:</i> 1 - Pistol grip handle 1 - Installation package with #5x35mm machine screws | BZ WH SC BS | 11900114 10815195 11900110 10143000 |
| NOTE: Handle style may vary depending on current stock. |  Keyed Handle (with cylinder and keys) <i>Includes:</i> 1 - Keyed handle with cylinder and 2 keys 1 - Installation package with #5x35mm machine screws | BZ WH | 11900112 11900111 |
| NOTE: Plate style may vary depending on current stock. |  Escutcheon Plate R033A15 <i>Includes:</i> 1 - Escutcheon plate 2 - #5x35mm machine screws | BZ | NA |
|  | Removable Handle (for Escutcheon) R033A22 | New Silver | NA |
|  | Neoprene Setting Block for Reglazing 5/32" x 15/16" x 4" | | 10500300 |

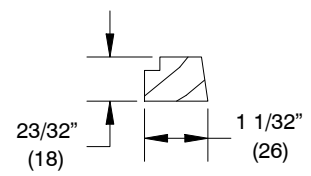
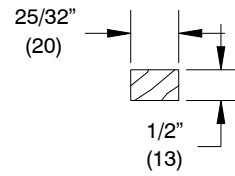
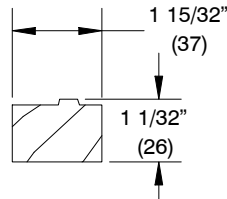
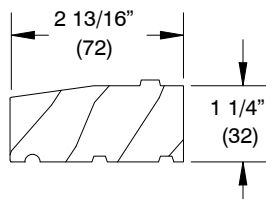
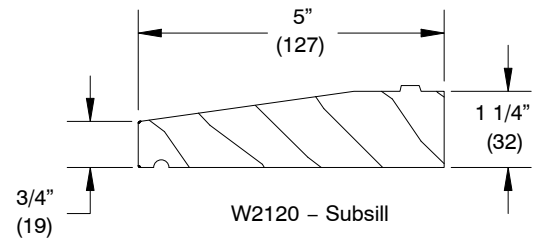
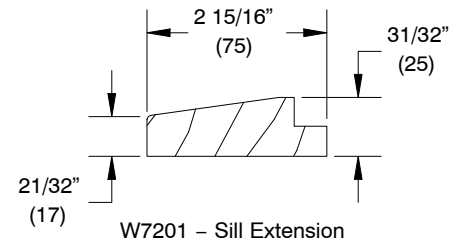
MISCELLANEOUS PARTS

NOTE: Since the vendor determines handing from the interior, some parts may be stamped with an "L" or "R." **For Marvin handing identification**, an "L" will mean right hand and an "R" will mean left hand. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|---|--|---|
|  <p>Left hand shown</p> | <p>Vertical Bottom Hinge Cap (Sash) N591A0671L N591A0671R</p> <p>N591A0653L N591A0653R</p> <p><i>NOTE: Field applied snap-on cover.</i></p> | <p>Pre 6/22/09 RH WH LH WH</p> <p>RH BZ LH BZ</p> <p>Post 6/22/09 RH WH LH WH</p> <p>RH BZ LH BZ</p> | <p>10815349 10815350</p> <p>10815351 10815352</p> <p>10815359 10815360</p> <p>10815361 10815362</p> |
|  | <p>Top and Center Hinge Cap (Frame) Overall width 2 3/8" (60)</p> <p>N391A0471 N391A0453</p> <p><i>NOTE: Field applied snap-on cover.</i></p> | <p>WH BZ</p> | <p>10815347 10815348</p> |
|  | <p>Top and Center Hinge Cap (RT Sash) N391A0571 N391A0553</p> <p><i>NOTE: Field applied snap-on cover.</i></p> | <p>WH BZ</p> | <p>10815345 10815346</p> |
|  <p>Left hand shown</p> | <p>Bottom Hinge Cap (Frame) N591A0571L N591A0571R</p> <p>N591A0553L N591A0553R</p> <p><i>NOTE: Field applied snap-on cover.</i></p> | <p>Pre 6/22/09 RH WH LH WH</p> <p>RH BZ LH BZ</p> <p>Post 6/22/09 RH WH LH WH</p> <p>RH BZ LH BZ</p> | <p>10815353 10815354</p> <p>10815355 10815356</p> <p>10815363 10815364</p> <p>10815365 10815366</p> |
|  | <p>Top and Center Hinge (Frame) Pin Puller Tool P010A30</p> <p><i>Can be used as a construction handle</i></p> | | <p>10815358</p> |

CURRENT REPLACEMENT WOOD PARTS

| | WOOD | CLAD |
|------------------------------|-------|-------|
| Subsill | W2120 | ---- |
| Narrow Subsill | W2122 | ---- |
| Cutback Subsill | W2124 | ---- |
| Sill Extension | W7201 | ---- |
| Sill Filler | ---- | W7202 |
| Jamb Extension (exterior) | W7200 | W7204 |
| Jamb Extension (interior) | W8647 | W8647 |
| Jamb Extension Filler | W6100 | ---- |
| Wood Glazing Bead - IG | W4102 | W4102 |
| Wood Glazing Bead - SG | W4106 | W4106 |
| Wood Glazing Bead - SG - ADL | W4100 | W4100 |

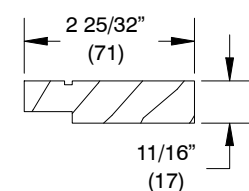
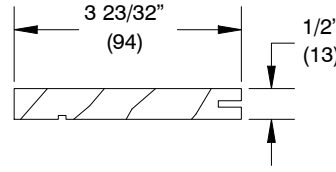
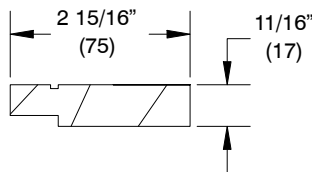


W2122 - Narrow Subsill

W2124 - Cutback Subsill

W6100 - Jamb Extension Filler

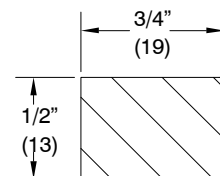
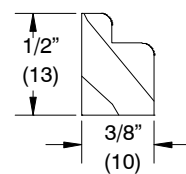
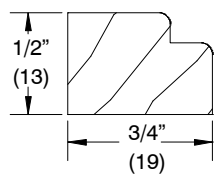
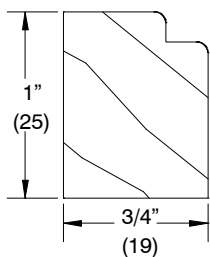
W7202 - Sill Filler



W7200 - Jamb Extension (exterior Wood)

W7204 - Jamb Extension (exterior Clad)

W8647 - Jamb Extension (interior)



W4106 - Wood Glazing Bead - SG

W4102 - Wood Glazing Bead - IG

W4100 - Wood Glazing Bead - SG - ADL

W11721 - Wood Glazing Square - IG

TO ORDER REPLACEMENT WOOD PARTS

When ordering replacement wood parts specify:

1. profile number;
2. call number or rough opening;
3. length;
4. finish.

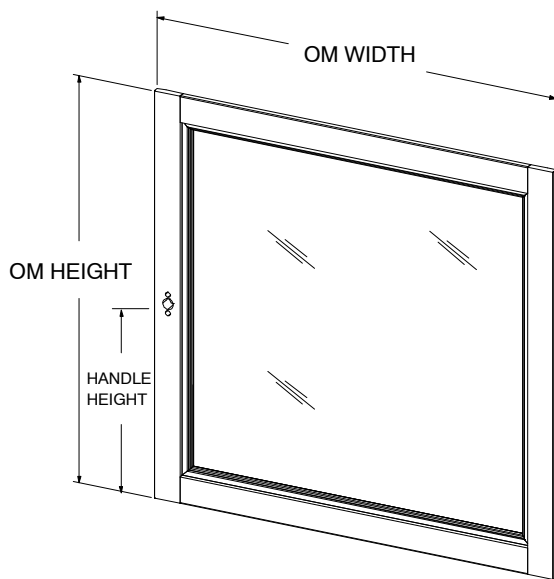
SASH REPLACEMENT/WEATHER STRIP

ORDERING REPLACEMENT OPERATOR OR STATIONARY SASH FOR TILT-TURN, HOPPER AND INSWING CASEMENT

NOTE: For sash produced prior to 6/06/2006, see *Obsolete Sash Replacement* section.

To order replacement operating or stationary sash specify:

1. size (call number or OM of sash);
2. operation and handing;
3. glazing;
4. finish;
5. handle height (if other than standard).
6. Interior wood glazing bead profile.



Interior View

| Sash OM Height Measure from the Interior | | Handle Height |
|---|-------------|---------------|
| 12 7/16" | – 20 5/16" | 5 7/16" |
| 20 3/8" | – 25 1/16" | 7 13/32" |
| 25 1/8" | – 32 15/16" | 11 1/16" |
| 33" | – 40 13/16" | 16 31/32" |
| 40 7/8" | – 48 11/16" | 20 29/32" |
| 48 3/4" | – 56 9/16" | 22 7/8" |
| 56 5/8" | – 64 7/16" | 22 7/8" |
| 64 1/2" | – 72 5/16" | 22 7/8" |
| 72 3/8" | – 80 3/16" | 40 3/32" |
| 80 1/4" | – 88 1/16" | 40 3/32" |
| 88 1/8" | – 95 15/16" | 40 3/32" |

Note: Handle height is measured from the bottom of the sash to the center of the espagnolette mechanism.

ORDERING REPLACEMENT WEATHER STRIP FOR TILT-TURN, HOPPER, INSWING CASEMENT AND ROUND TOP TILT-TURN

When ordering replacement weather strip specify:

1. type of unit;
2. OM of sash measured from the interior;
3. part number;
4. description.

| ILLUSTRATION <i>NOT TO SCALE</i> | DESCRIPTION | PART NUMBER |
|-------------------------------------|---|-------------|
| | Gasket Weather Strip Color: Black Specify length | 11900100 |

SCREENS AND SCREEN PARTS

ORDERING REPLACEMENT SCREENS FOR TILT-TURN, HOPPER AND INSWING CASEMENT

Full screens are standard with aluminum surround and Hi-Transparency fiberglass mesh. Aluminum mesh is available as an option in black, charcoal, bright aluminum, or bright bronze. Determine the outside measurement of the existing screen. Surrounds are available in all standard and select colors.

When ordering replacement screen specify:

| | |
|--|---|
| <ol style="list-style-type: none"> 1. size; If there is no existing screen to obtain the OM of the panel, determine the size of the EP by using the conversion chart below. The daylight opening is the measurement of the visible glass. 2. color of surround; 3. glass type(if other than standard) | <p>Screen Sizes for Tilt-Turn, Hopper and Inswing Casement Manufactured between 1984-Present</p> <p>Daylight Opening to OM of Screen</p> <p>Daylight Width + 3 1/2" (89) = OM Width of Screen</p> <p>Daylight Height + 4 5/16" (110) = OM Height of Screen</p> <p>NOTE: OM should not include lip.</p> <p>NOTE: Screens feature plunger type mounting system.</p> |
|--|---|

TILT-TURN, HOPPER AND INSWING CASEMENT SCREEN PARTS 2-27-2012 TO PRESENT

| ILLUSTRATION <i>NOT TO SCALE</i> | DESCRIPTION | COLOR | PART NO. |
|-------------------------------------|---|-------|----------|
| | <p>Plunger and Spring Assembly Used 2/2012 to present <i>Includes:</i> 1 - Plunger bolt (metal) 1 - Plunger bolt cap (black) 1 - Plunger bolt spring</p> | Black | 10500706 |
| | <p>Screen Mounting Receptacle M111</p> | White | 05070411 |

ORDERING REPLACEMENT SCREENS FOR TILT-TURN, HOPPER AND INSWING CASEMENT

Full screens are standard with aluminum surround and Hi-Transparency fiberglass mesh. Aluminum mesh is available as an option in black, charcoal, bright aluminum, or bright bronze. Determine the outside measurement of the existing screen. Surrounds are available in all standard and select colors.

When ordering replacement screen specify:

| | |
|--|--|
| <ol style="list-style-type: none"> 1. size; If there is no existing screen to obtain the OM of the panel, determine the size of the EP by using the conversion chart below. The daylight opening is the measurement of the visible glass. 2. color of surround; 3. glass type(if other than standard) | <p style="text-align: center;">Screen Sizes for Tilt-Turn, Hopper and Inswing Casement Manufactured between 1984-Present</p> <p style="text-align: center;">Daylight Opening to OM of Screen</p> <p>Daylight Width + 3 1/2" = OM Width of Screen Daylight Height + 4 5/16" = OM Height of Screen</p> <p>NOTE: OM should not include lip. NOTE: Screens feature plunger type mounting system.</p> |
|--|--|

TILT-TURN, HOPPER AND INSWING CASEMENT SCREEN PARTS PRE 2-27-2012

| ILLUSTRATION <i>NOT TO SCALE</i> | DESCRIPTION | COLOR | PART NO. |
|-------------------------------------|--|----------------------------|--|
| | Plunger and Spring Assembly M0102 <i>Includes:</i> 1 - Plunger bolt (metal) 1 - Plunger bolt cap (black) 1 - Plunger bolt spring | Black | 03070731 |
| | Screen Mounting Receptacle M111 | White | 05070411 |
| | Spline, Screen V1269 | Black | No longer available |
| | Spline, Screen V129 | Black | Discontinued Replace with V1269 |
| | Corner Key Screen M0121 | | 15225301 |
| | Screen Surround, Aluminum Profile A133 Available in 168" (4267) length | SW BZ PB BN EG | 18801100 15231799 15231899 15231699 15231999 |

ORDERING REPLACEMENT ENERGY PANELS FOR TILT-TURN, HOPPER AND INSWING CASEMENT

If you are replacing an existing energy panel, determine the outside measurement of the existing energy panel. If there is no existing energy panel from which to obtain the OM of the panel, determine the size of the energy panel by using the conversion below. The daylight opening is the measurement of the visible glass. Energy panels are available in a white aluminum surround (interior panel).

NOTE: Interior energy panel surround changed from vinyl to metal in 1994. Replacement vinyl parts are not available. Metal surround models are compatible with all Tilt-Turn, Hopper and Inswing Casement units.

When ordering energy panels specify type of unit, size and glass type.

**Interior Energy Panels for Tilt-Turn,
Hopper and Inswing Casement
Manufactured between 1984 – Present**



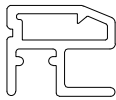

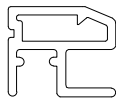
Daylight Opening to OM of IEP

Daylight Width + 1 3/8" = OM Width of IEP

Daylight Height + 1 3/8" = OM Height of IEP

TILT-TURN, HOPPER AND INSWING CASEMENT ENERGY PANEL PARTS

When ordering energy panels parts specify quantity, description of part including color and part number.

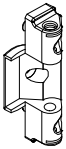

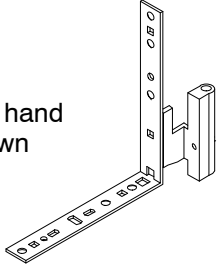
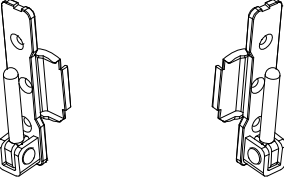
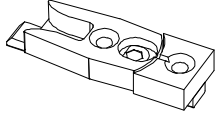
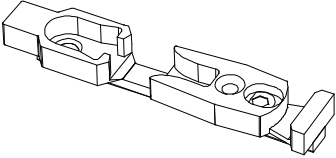
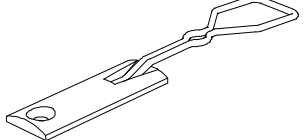
| ILLUSTRATION <i>NOT TO SCALE</i> | DESCRIPTION | COLOR | PART NO. |
|---|--|-------|----------|
|  | Corner Key, Interior Energy Panel M950 | | 15470016 |
|  | Weatherstrip, Interior Energy Panel M0412 Specify Length | WH | 15610097 |
|  | Interior Energy Panel Surround, Aluminum Profile A149 For 1/8" glass and 3/16" glass Available in 150" (3810) length Note: Must use V235 for 1/8" glass | WH | 18600899 |
|  | Spline V235 For 1/8" glass only Specify Length | WH | 15221211 |
|  | Interior Energy Panel Surround, Aluminum Profile A163 For 3/16" featherweight laminated glass Available in 150" (3810) length | WH | 18600898 |

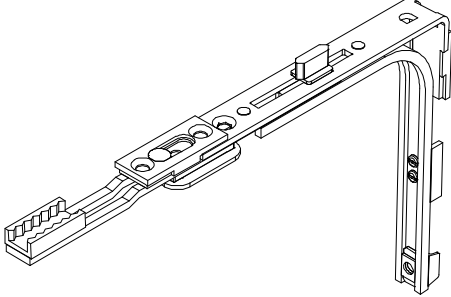
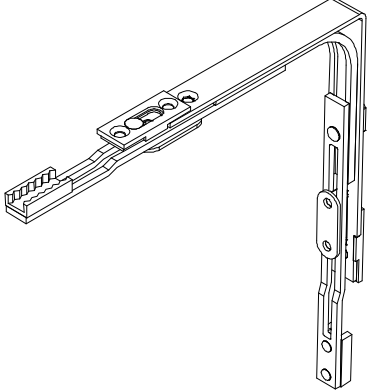
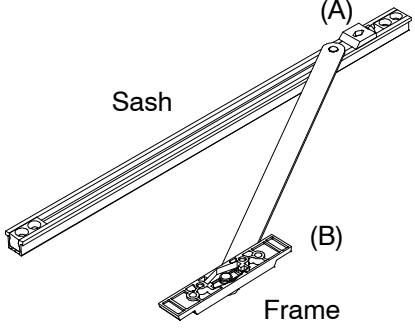
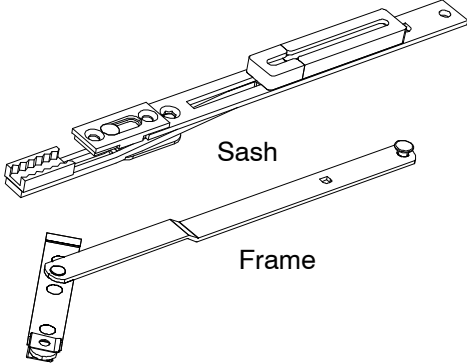
When ordering replacement Tilt-Turn parts specify:

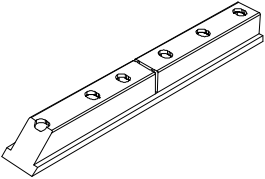
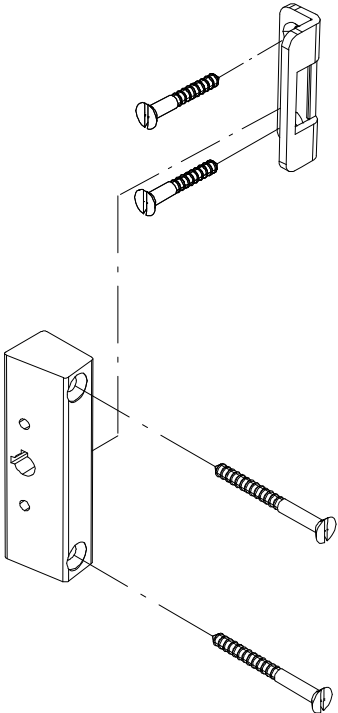
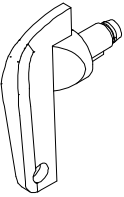
1. type of unit;
2. part number;
3. description.

In most cases, Tilt-Turn hardware will feature model numbers stamped on individual parts. The fifth character of the model number indicates the series (example – M490B32). The newest series hardware is sent for replacement. All model numbers are for reference only, Marvin part numbers are required when ordering replacement parts.

NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

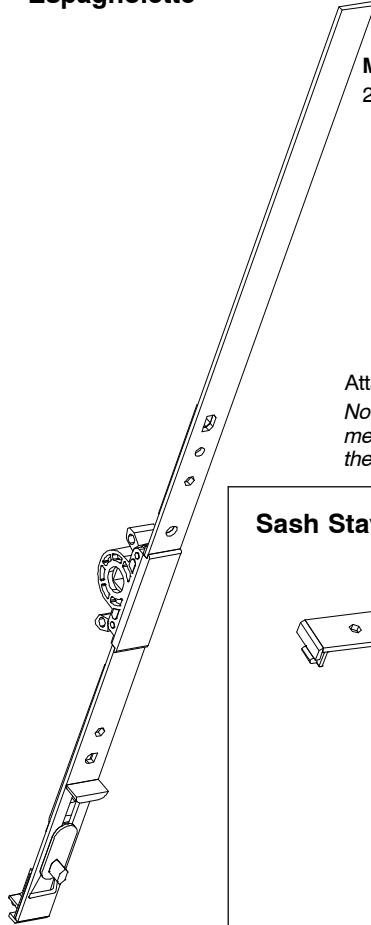
| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|---|-----------------|----------------------|
|  | <p>Top Hinge Receiver (Frame) N390A302 <i>Includes:</i> 1 – Top hinge receiver 3 – #8x1 1/2" Phillips flathead wood screws</p> | | 10815266 |
|  | <p>Top Hinge Receiver Pin (Frame) F710D52</p> | | 10815267 |
| <p>Left hand shown</p>  | <p>Bottom Hinge (Sash) N512A0310R N512A0310L <i>Includes:</i> 1 – Bottom hinge 6 – #6x1 1/2" Phillips flathead wood screws 1 – #8x1 1/2" Phillips flathead wood screws</p> | LH RH | 10815268 10815269 |
|  <p>Right Hand Left Hand</p> | <p>Bottom Hinge Receiver (Frame) N512A0301R N512A0301L <i>Includes:</i> 1 – Bottom hinge receiver 3 – #8x1 1/2" Phillips flathead wood screws</p> | LH RH | 10815270 10815271 |
|  | <p>Strike R604C51 <i>Includes:</i> 1 – Strike 2 – #8x1 1/2" Phillips flathead wood screws</p> | | 10815112 |
|  | <p>Strike, Corner R604C52 <i>Includes:</i> 1 – Strike 2 – #8x1 1/2" Phillips flathead wood screws</p> | | 10815111 |
|  | <p>Tilt Position Clip F400C20</p> | | 10815197 |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|---|--|-----------------|--|
|  | <p>Corner Drive R600A01</p> <p><i>Includes:</i> 1 - Corner drive 4 - #6 x 1 1/2" Phillips flathead wood screws</p> <p>NOTE: For units with sash OM of 14 11/16" - 18 21/32".</p> | | 10815040 |
|  | <p>Corner Drive R600A11</p> <p><i>Includes:</i> 1 - Corner drive 6 - #6 x 1 1/2" Phillips flathead wood screws</p> <p>NOTE: For units with sash OM of 18 11/16" and above.</p> | | 10815039 |
|  <p>Sash</p> <p>(A)</p> <p>(B)</p> <p>Frame</p> <p>(This item is for limiting the inswing position.)</p> | <p>Friction Limiter</p> <p>NOTE: Both Sash (A) and Frame (B) parts must be ordered for a complete assembly. Spacer (10815171) is used with friction assembly and should also be ordered.</p> <p>Sash (A) K011B204 Used when daylight opening of the unit is 13 7/8" to 15".</p> <p>K011A25 Used when daylight opening of the unit is over 15".</p> <p>Frame (B) Friction Bearing Stop K011A11</p> <p><i>Includes:</i> 1 - Friction limiter assembly 4 - #8 x 1 1/2" Phillips flathead wood screws (frame) 4 - #6 x 1 1/2" Phillips flathead wood screws (sash)</p> | | 10815302 10815169 10815168 |
|  <p>Sash</p> <p>Frame</p> <p>(This item is for limiting the tilt position.)</p> | <p>Stabilizer Arm Assembly F502A70</p> <p><i>Includes:</i> 1 - Stabilizer arm assembly 4 - #6 x 1 1/2" Phillips flathead wood screws (sash) 3 - #8 x 1 1/2" Phillips flathead wood screws (frame)</p> | | 10815175 |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|---|---|-----------------|----------------------|
|  | <p>Spacer R600A43</p> | | 10815095 |
|  | <p>Security Lock M811A29 M811A20</p> <p><i>Includes:</i> 1 - Lock with strike 2 - #7x1" slotted flathead screws (strike) 2 - #7x1 1/2" slotted flathead screws (lock)</p> | WH ZYD | 10815120 10815125 |
|  | <p>Security Key</p> | WH ZYD | 10815127 10815126 |

NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

Espagnolette

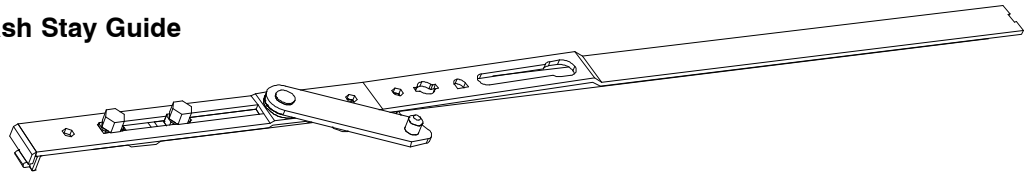


| Sash OM Height | | Handle Height | Model No. | Part No. |
|---------------------------|---------|---------------|-----------|----------|
| Measure from the Interior | | | | |
| 25 3/32" | or less | 7 7/16" | R601B10 | 10815041 |
| 25 1/8" | - | 11 1/8" | R601B20 | 10815042 |
| 33" | - | 16 15/16" | R601B40 | 10815043 |
| 40 7/8" | - | 20 15/16" | R601B50 | 10815044 |
| 48 3/4" | - | 22 15/16" | R601B60 | 10815045 |
| 56 5/8" | - | 22 15/16" | R601B70 | 10815046 |
| 64 1/2" | - | 22 15/16" | R601B80 | 10815047 |
| 72 3/8" | - | 44 9/16" | R602B10 | 10815048 |
| 80 1/4" | - | 44 9/16" | R602B20 | 10815049 |
| 88 1/8" | - | 44 9/16" | R602B30 | 10815050 |

Attached with #6x1 1/2" Phillips flathead wood screws.

Note: Handle height is measured from the bottom of the sash to the center of the espagnolette mechanism. In addition, if exact sash OM height is provided, the replacement espagnolette will be cut to the proper length.

Sash Stay Guide

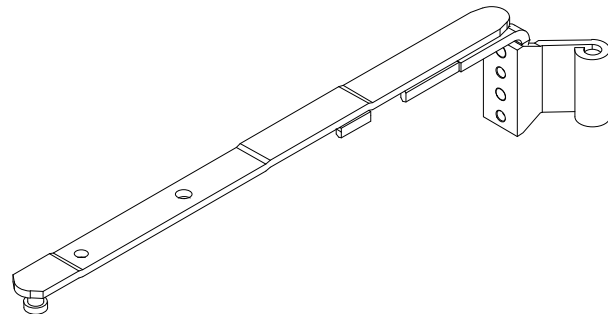


| Sash OM Width | | Model No. | Part No. | |
|----------------------------|---------|-----------|----------|----------|
| Measured from the Interior | | | | |
| 25 1/2" | or less | F502A10 | 10815068 | |
| 25 17/32" | - | 33 3/8" | F502A20 | 10815069 |
| 33 13/32" | - | 41 1/4" | F502A30 | 10815070 |
| 41 9/32" | - | 49 1/8" | F502A40 | 10815071 |
| 49 5/32" | - | 57" | F502A50 | 10815072 |
| 57 1/32" | - | 64 7/8" | F502A60 | 10815073 |

Attached with #6x 1 1/2" Phillips flathead wood screws

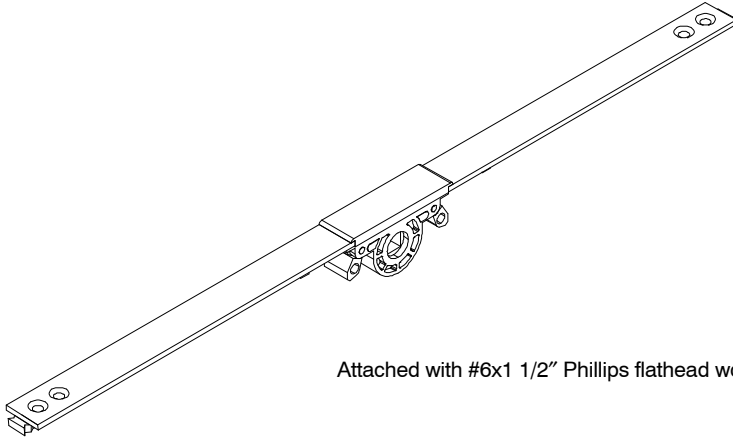
NOTE: If exact sash OM width is provided, the replacement sash stay guide will be cut to the proper length.

Top Hinge (Sash)



| Sash OM Width | | Model No. | Left Part No. | Right Part No. |
|----------------------------|---------|--------------|---------------|----------------|
| Measured from the Interior | | | | |
| 25 1/2" | or less | F526A1200R/L | 10815260 | 10815261 |
| 25 17/32" | - | 33 3/8" | F526A1300R/L | 10815262 |
| 33 13/32" | - | 64 7/8" | F526A1500R/L | 10815264 |

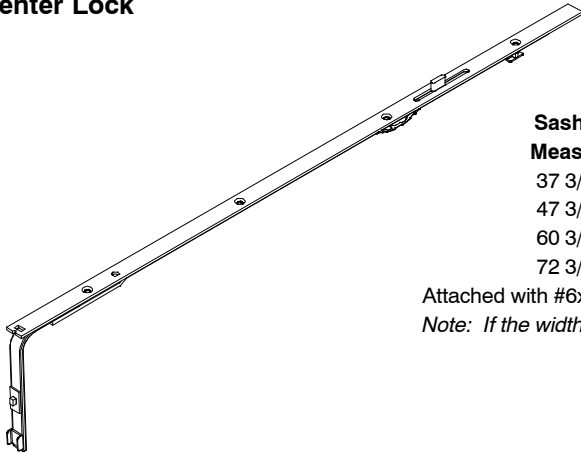
Variable Espagnolette (For Special Handle Height Only)



| Model No. | Part No. |
|-----------|----------|
| R610A05 | 10815051 |
| R610C11 | 10815052 |
| R610C21 | 10815053 |
| R610C31 | 10815054 |
| R610C41 | 10815055 |
| R610C51 | 10815056 |

Attached with #6x1 1/2" Phillips flathead wood screws.

Center Lock



**Sash OM Width or Height
 Measured from the Interior**

| | | |
|----------|---|----------|
| 37 3/16" | - | 47 5/32" |
| 47 3/16" | - | 60 5/32" |
| 60 3/16" | - | 72 5/32" |
| 72 3/16" | - | 95 3/16" |

| Model No. | Part No. |
|-----------|----------|
| R605A10 | 10815105 |
| R605A20 | 10815106 |
| R605A30 | 10815107 |
| R605A40 | 10815108 |

Attached with #6x 1 1/2" Phillips flathead wood screws

Note: If the width or height of the unit is less than 40" no center lock is required on that side.

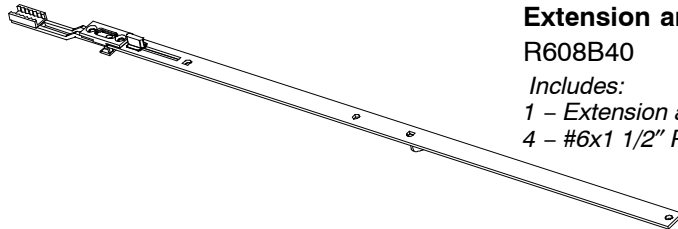
Extension and Lock

R608B40

10815172

Includes:

- 1 - Extension and lock
- 4 - #6x1 1/2" Phillips flathead wood screws



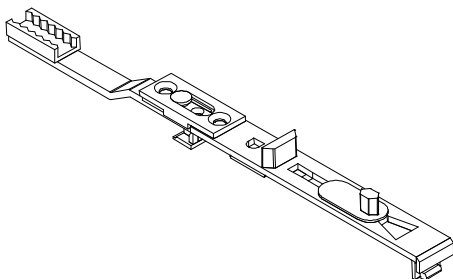
Bottom Extension

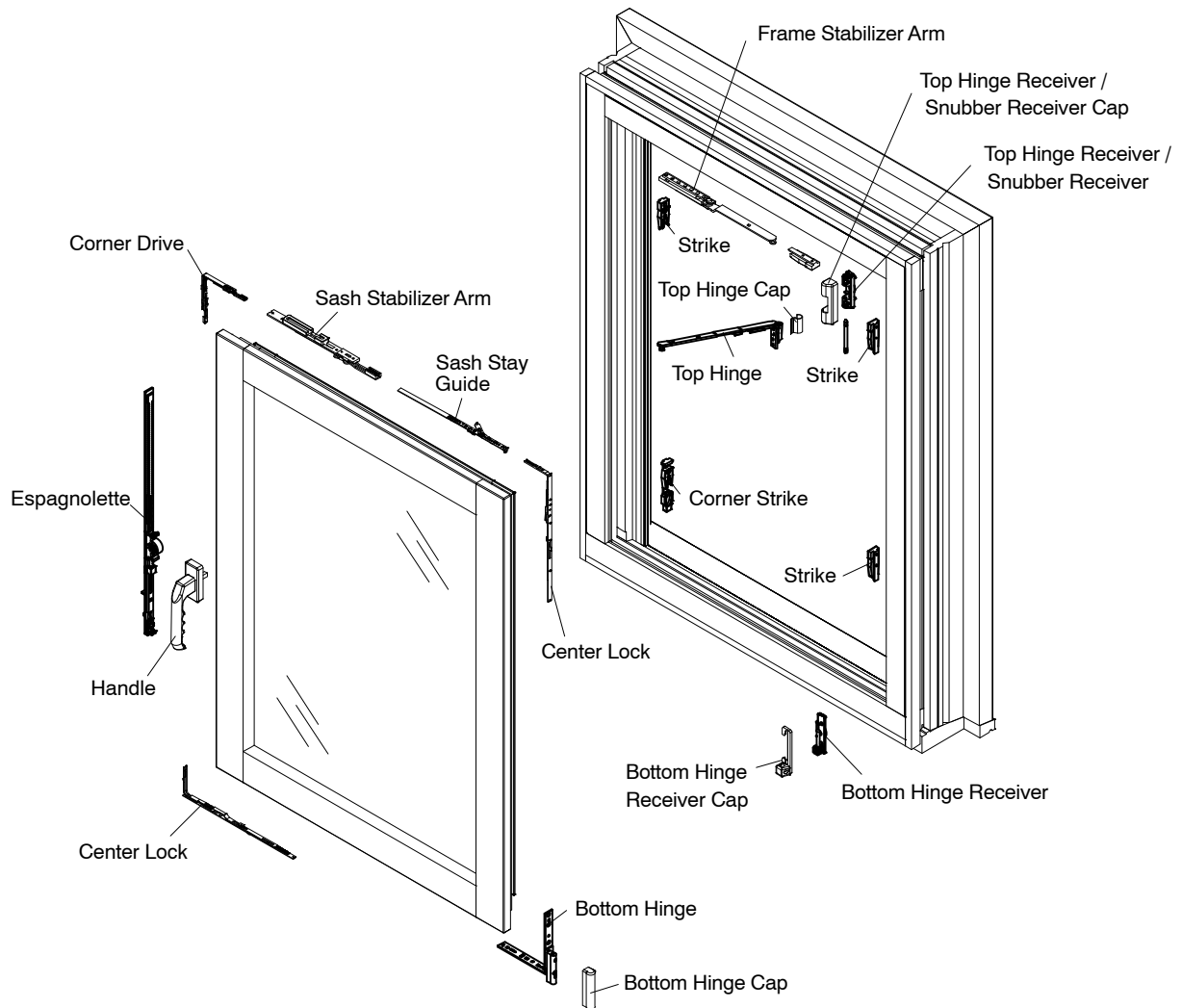
R610A02

10815058

Includes:

- 1 - Bottom extension
- 4 - #6x1" Phillips flathead wood screws

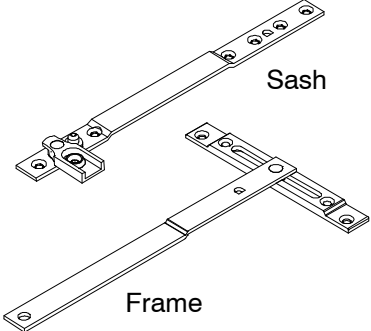
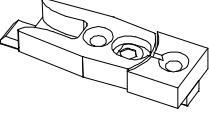
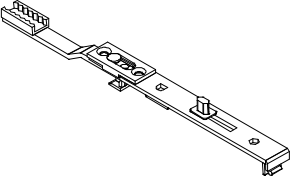
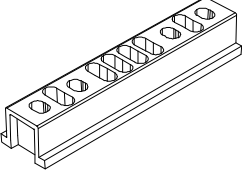




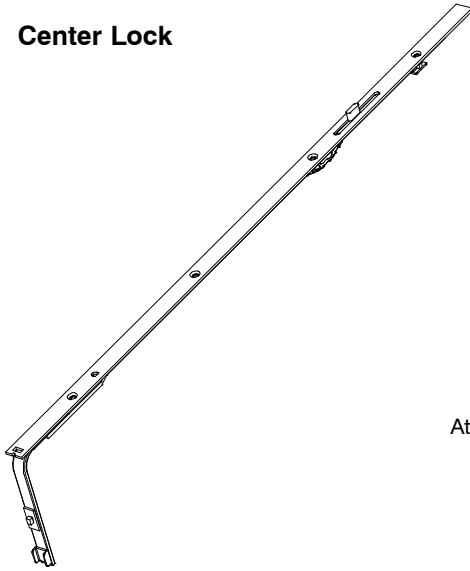
When ordering replacement Hopper parts specify:

1. type of unit;
2. part number;
3. description.

In most cases, Hopper hardware will feature model numbers stamped on individual parts. The fifth character of the model number indicates the series (example – M490A35). The newest series hardware is sent for replacement. All model numbers are for reference only, Marvin part numbers are required when ordering replacement parts.

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|---|--|-----------------|----------|
|  <p>Sash Frame</p> | <p>Sash Limiter Assembly F010D10 <i>Includes:</i> 1 – Sash limiter assembly 4 – #6x1 1/2" Phillips flathead wood screws (sash) 2 – #8x1 1/2" Phillips flathead wood screws (frame)</p> | | 10815176 |
|  | <p>Strike R604C51 <i>Includes:</i> 1 – Strike 2 – #8x1 1/2" Phillips flathead wood screws</p> | | 10815112 |
|  | <p>Top Corner Connector M720A11 <i>Includes:</i> 1 – Top corner connector 3 – #6x1 1/2" Phillips flathead wood screws</p> | | 10815202 |
|  | <p>Shim M490A38</p> | | 10815157 |

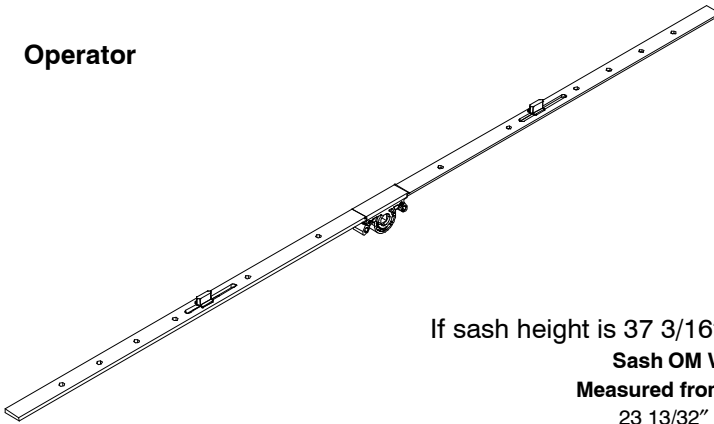
Center Lock



| Sash OM Height | | Model No. | Part No. |
|----------------------------|------------|-----------|----------|
| Measured from the Interior | | | |
| 37 1/4" | – 40 3/16" | R605A10 | 10815105 |
| 40 1/4" | – 48 3/16" | R605A10 | 10815105 |
| 48 1/4" | – 52 3/16" | R605A20 | 10815106 |
| 52 1/4" | – 55 3/16" | R605A20 | 10815106 |
| 55 1/4" | – 59 3/16" | R605A20 | 10815106 |

Attached with #6x 1 1/2" Phillips flathead wood screws

Operator

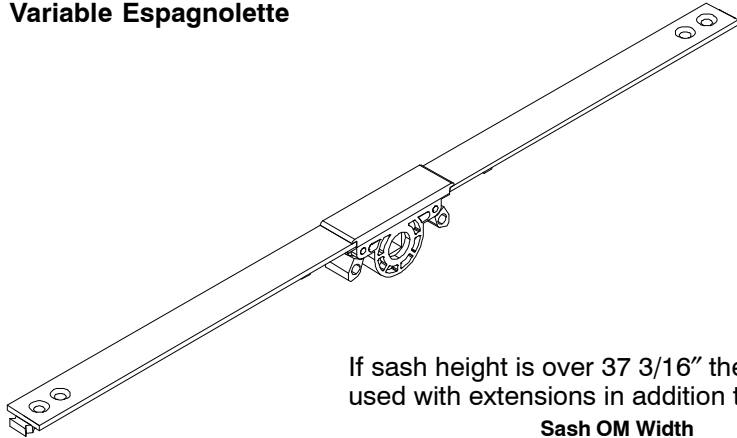


If sash height is 37 3/16" or less the following operators are used:

| Sash OM Width | | Model No. | Part No. |
|----------------------------|-------------|-----------|----------|
| Measured from the Interior | | | |
| 23 13/32" | or less | M500A90 | 10815303 |
| 23 7/16" | – 37 3/16" | M500A10 | 10815160 |
| 37 1/4" | – 42 11/16" | M500A20 | 10815161 |
| 42 3/4" | – 58 11/16" | M500A30 | 10815162 |
| 58 3/4" | – 69 3/16" | M500A40 | 10815163 |

Attached with #6x1 1/2" Phillips flathead wood screws

Variable Espagnolette



If sash height is over 37 3/16" the following variable espagnolettes are used with extensions in addition to side strikes and locks.

| Sash OM Width | | Model No. | Part No. |
|-----------------------------------|--|------------------|-----------------|
| Measured from the Interior | | | |
| 21 15/16" or less | | R610A05 | 10815051 |
| 22" - 40 7/16" | | R610C11 | 10815052 |
| 40 1/2" - 55 15/16" | | R610C21 | 10815053 |
| 56" - 69 3/16" | | R610C31 | 10815054 |

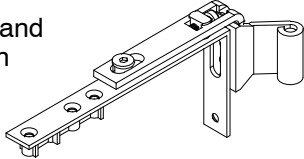
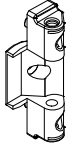
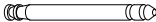
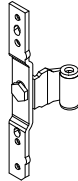
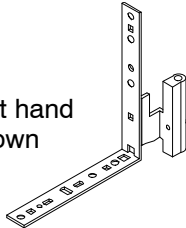
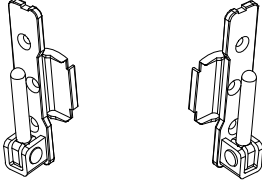
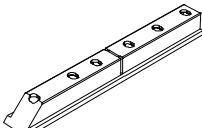
Attached with #6x1 1/2" Phillips flathead wood screws.

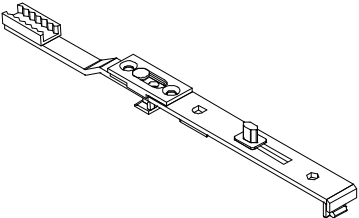
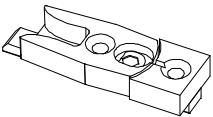
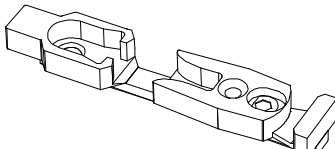
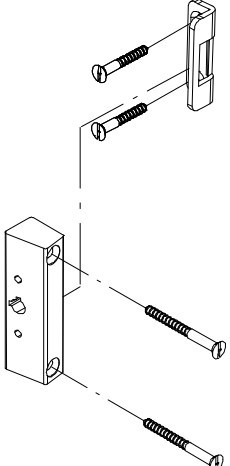
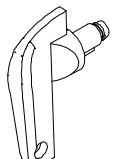
When ordering replacement Inswing Casement parts specify:

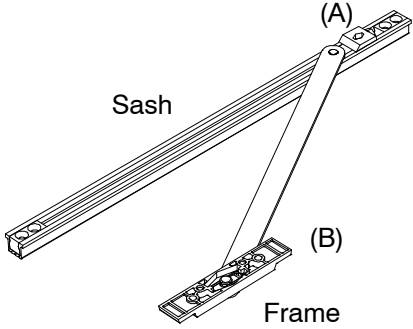
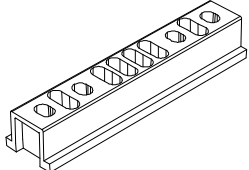
1. type of unit;
2. part number;
3. description.

In most cases, Inswing Casement hardware will feature model numbers stamped on individual parts. The fifth character of the model number indicates the series (example – M490B31). The newest series hardware is sent for replacement. All model numbers are for reference only, Marvin part numbers are required when ordering replacement parts.

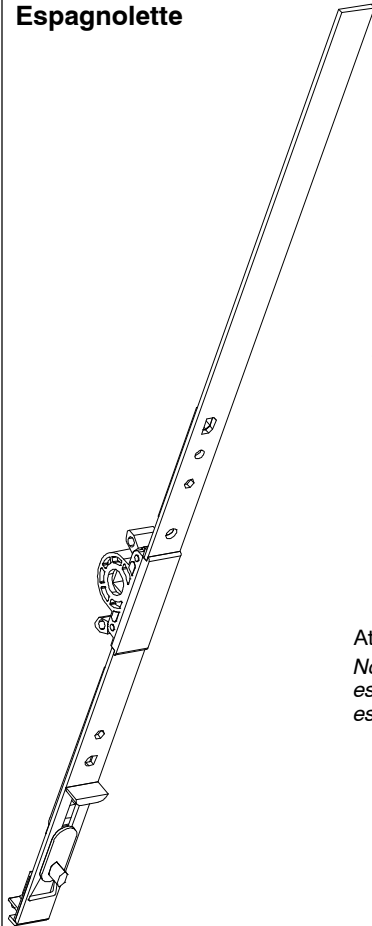
NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|--|---------------------------------------|---|
|  <p>Left hand shown</p> | <p>Top Hinge (Sash) N612A0320R N612A0320L</p> <p><i>Includes:</i> 1 – Top hinge 5 – #6x1 1/2" Phillips flathead wood screws</p> | <p>LH RH</p> | <p>10815274 10815275</p> |
|  | <p>Top and Center Hinge Receiver (Frame) N390A302</p> <p><i>Includes:</i> 1 – Top hinge receiver 3 – #8x1 1/2" Phillips flathead wood screws</p> | | <p>10815266</p> |
|  | <p>Hinge Receiver Pin (Frame) F710D52</p> | | <p>10815267</p> |
|  | <p>Center Hinge (Sash) N612A0360</p> <p><i>Includes:</i> 2 – M490A38 spacers</p> | | <p>10815276</p> |
|  <p>Left hand shown</p> | <p>Bottom Hinge (Sash) N512A0310R N512A0310L</p> <p><i>Includes:</i> 1 – Bottom hinge 6 – #6x1 1/2" Phillips flathead wood screws 1 – #8x1 1/2" Phillips flathead wood screw</p> | <p>LH RH</p> | <p>10815268 10815269</p> |
|  <p>Right Hand Left Hand</p> | <p>Bottom Hinge Receiver (Frame) N512A0301R N512A0301L</p> <p><i>Includes:</i> 1 – Bottom hinge receiver 3 – #8x1 1/2" Phillips flathead wood screws</p> | <p>LH RH</p> | <p>10815270 10815271</p> |
|  | <p>Spacer R600B43</p> | | <p>10815095</p> |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|---|---|-----------------|----------------------|
|  | <p>Top Corner Connector M720A11 <i>Includes:</i> 1 – Top corner connector 3 – #6x1 1/2" Phillips flathead wood screws</p> | | 10815202 |
|  | <p>Strike R604C51 <i>Includes:</i> 1 – Strike 2 – #8x1 1/2" Phillips flathead wood screws</p> | | 10815112 |
|  | <p>Strike, Corner R604C52 <i>Includes:</i> 1 – Strike 2 – #8x1 1/2" Phillips flathead wood screws</p> | | 10815111 |
|  | <p>Security Lock M811A29 M811A20 <i>Includes:</i> 1 – Lock with strike 2 – #7x1" slotted flathead screws (strike) 2 – #7x1 1/2" slotted flathead screws (lock)</p> | WH YZD | 10815120 10815125 |
|  | <p>Security Key</p> | WH YZD | 10815127 10815126 |

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|---|-----------------|---|
|  <p>Sash</p> <p>(A)</p> <p>(B)</p> <p>Frame</p> | <p>Friction Limiter Assembly</p> <p>Sash (A) K011B204 Used when daylight opening of the unit is 13 7/8" to 15".</p> <p>K011A25 Used when daylight opening of the unit is over 15".</p> <p>Frame (B) Friction Bearing Stop KO11A11</p> <p>NOTE: Spacer 10815171 is used with friction assembly and should also be ordered.</p> <p><i>Includes:</i> 1 - Friction limiter assembly 4 - #8x1 1/2" Phillips flathead wood screws (frame) 4 - #6x1 1/2" Phillips flathead wood screws (sash)</p> | | <p>10815302</p> <p>10815169</p> <p>10815168</p> |
|  | <p>Shim M490A38</p> | | <p>10815157</p> |

Espagnolette

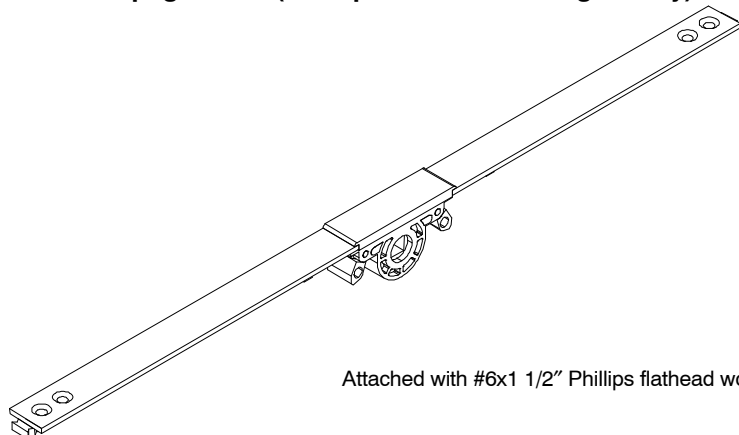


| Sash OM Height | | Handle Height | Model No. | Part No. |
|---------------------------|---------|---------------|-----------|----------|
| Measure from the Interior | | | | |
| 25 3/32" | or less | 7 7/16" | R601B10 | 10815041 |
| 25 1/8" | - | 11 1/8" | R601B20 | 10815042 |
| 33" | - | 16 15/16" | R601B40 | 10815043 |
| 40 7/8" | - | 20 15/16" | R601B50 | 10815044 |
| 48 3/4" | - | 22 15/16" | R601B60 | 10815045 |
| 56 5/8" | - | 22 15/16" | R601B70 | 10815046 |
| 64 1/2" | - | 22 15/16" | R601B80 | 10815047 |
| 72 3/8" | - | 44 9/16" | R602B10 | 10815048 |
| 80 1/4" | - | 44 9/16" | R602B20 | 10815049 |
| 88 1/8" | - | 44 9/16" | R602B30 | 10815050 |

Attached with #6x1 1/2" Phillips flathead wood screws.

Note: Handle height is measured from the bottom of the sash to the center of the espagnolette mechanism. In addition, if exact sash OM height is provided, the replacement espagnolette will be cut to the proper length.

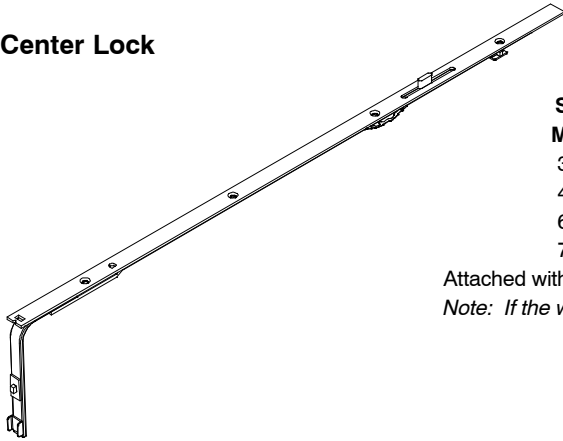
Variable Espagnolette (For Special Handle Height Only)



| Model No. | Part No. |
|-----------|----------|
| R610A05 | 10815051 |
| R610C11 | 10815052 |
| R610C21 | 10815053 |
| R610C31 | 10815054 |
| R610C41 | 10815055 |
| R610C51 | 10815056 |

Attached with #6x1 1/2" Phillips flathead wood screws.

Center Lock



**Sash OM Width or Height
 Measured from the Interior**

| | | |
|----------|---|----------|
| 37 3/16" | - | 47 5/32" |
| 47 3/16" | - | 60 5/32" |
| 60 3/16" | - | 72 5/32" |
| 72 3/16" | - | 95 3/16" |

| Model No. | Part No. |
|-----------|----------|
| R605A10 | 10815105 |
| R605A20 | 10815106 |
| R605A30 | 10815107 |
| R605A40 | 10815108 |

Attached with #6x1 1/2" Phillips flathead wood screws

Note: If the width or height of the unit is greater than 40" a center lock is required.

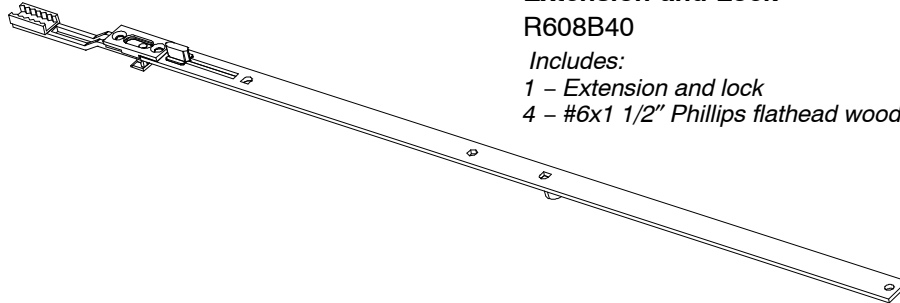
Extension and Lock

R608B40

10815172

Includes:

- 1 - Extension and lock
- 4 - #6x1 1/2" Phillips flathead wood screws



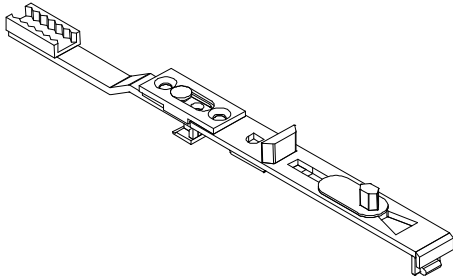
Bottom Extension

R610A02

10815058

Includes:

- 1 - Bottom extension
- 4 - #6x1" Phillips flathead wood screws

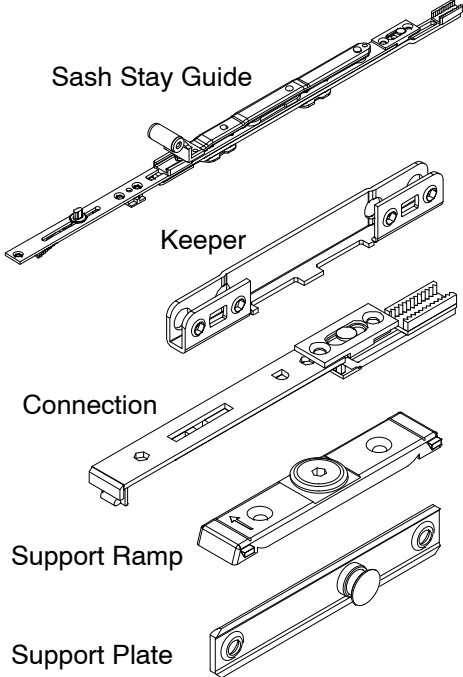
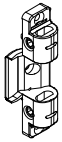
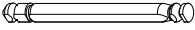
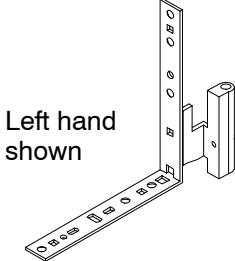


When ordering replacement Round Top Tilt-Turn parts specify:

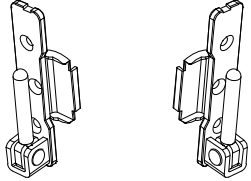
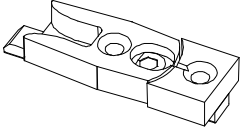
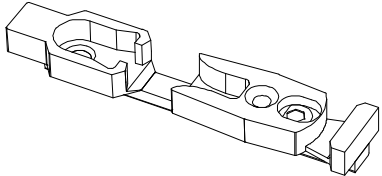
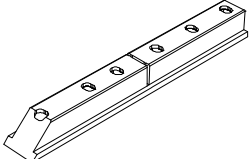
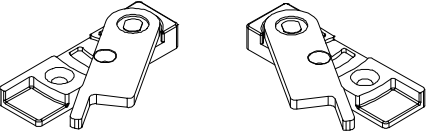
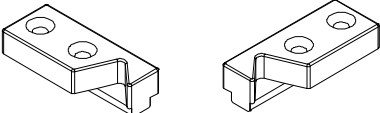
1. type of unit;
2. part number;
3. description.

In most cases, Round Top Tilt-Turn hardware will feature model numbers stamped on individual parts. The fifth character of the model number indicates the series (example – R608C02). The newest series hardware will be sent for replacement. All model numbers are for reference only, Marvin part numbers are required when ordering replacement parts.

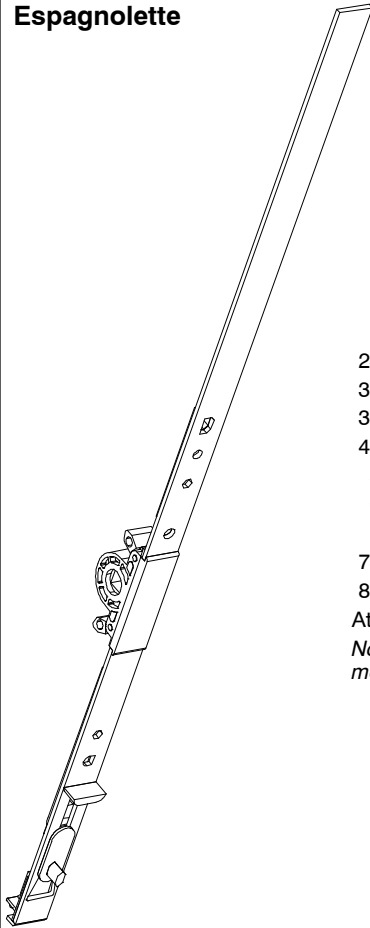
NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|---|---------------------------------------|---|
|  <p>Sash Stay Guide</p> <p>Keeper</p> <p>Connection</p> <p>Support Ramp</p> <p>Support Plate</p> | <p>Round Top Tilt-Turn Hardware R608A08</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> 1 – Sash stay guide 1 – Keeper 1 – Connection 1 – Support ramp 1 – Support plate 13 – #6x1 1/2" Phillips flathead wood screws (sash stay guide and connection) 2 – #8x1 1/2" Phillips flathead wood screws (support ramp) <p>NOTE: Individual parts not available as separate items.</p> | | 10815272 |
|  | <p>Top Hinge Receiver (Frame) N390A034</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> 1 – Top hinge receiver 3 – #8x1 1/2" Phillips flathead wood screws | | 10815273 |
|  | <p>Top Hinge Receiver Pin F710D52</p> | | 10815267 |
|  <p>Left hand shown</p> | <p>Bottom Hinge (Sash) N512A0310R N512A0310L</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> 1 – Bottom hinge 6 – #6x1 1/2" Phillips flathead wood screws 1 – #8x1 1/2" Phillips flathead wood screw | <p>LH RH</p> | <p>10815268 10815269</p> |

NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|--|---------------------------------------|---|
|  <p>Right Hand Left Hand</p> | <p>Bottom Hinge Receiver (Frame) N512A0301R N512A0301L Includes: 1 - Bottom hinge receiver 3 - #8x1 1/2" Phillips flathead wood screws</p> | <p>LH RH</p> | <p>10815270 10815271</p> |
|  | <p>Strike R604C51 Includes: 1 - Strike 2 - #8x1 1/2" Phillips flathead wood screws</p> | | <p>10815112</p> |
|  | <p>Strike, Corner R604C52 Includes: 1 - Strike 2 - #8x1 1/2" Phillips flathead wood screws</p> | | <p>10815111</p> |
|  | <p>Spacer R600B43</p> | | <p>10815095</p> |
|  <p>Right Hand Left Hand</p> | <p>Safety Device, Sash M803A00R M803A00L Includes: 1 - Safety device 1 - #6 x 1 1/2" Phillips flathead wood screws</p> | <p>LH RH</p> | <p>10815182 10815181</p> |
|  <p>Right Hand Left Hand</p> | <p>Safety Device Spacer, Frame M802A95R M802A95L Includes: 1 - Spacer 2 - #8 x 1 1/2" Phillips flathead wood screws</p> | <p>LH RH</p> | <p>10815184 10815183</p> |

Espagnolette

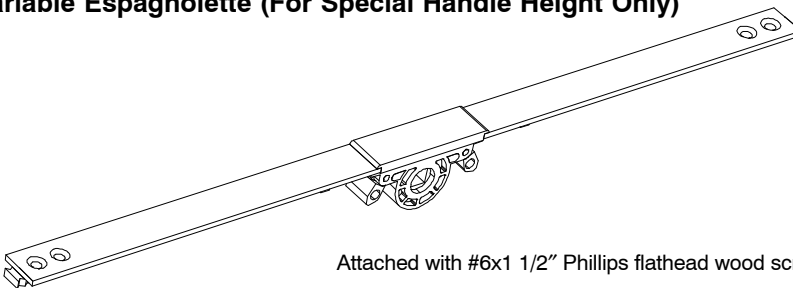


| Bottom of Sash to Springline | | Handle Height | Model No. | Part No. |
|---------------------------------|---------|---------------|-----------|----------|
| 23 7/8" | or less | 7 7/16" | R601B10 | 10815041 |
| 23 29/32" | - | 11 1/8" | R601B20 | 10815042 |
| 31 21/32" | - | 16 15/16" | R601B40 | 10815043 |
| 39 17/32" | - | 20 15/16" | R601B50 | 10815044 |
| 47 21/32" | - | 22 15/16" | R601B60 | 10815045 |
| 55 9/32" | - | 22 15/16" | R601B70 | 10815046 |
| 63 5/32" | - | 22 15/16" | R601B80 | 10815047 |
| 71 1/32" | - | 44 9/16" | R602B10 | 10815048 |
| 78 17/32" | - | 44 9/16" | R602B20 | 10815049 |
| 86 17/32" | - | 44 9/16" | R602B30 | 10815050 |

Attached with #6x1 1/2" Phillips flathead wood screws.

Note: Handle height is measured from the bottom of the sash to the center of the espagnolette mechanism.

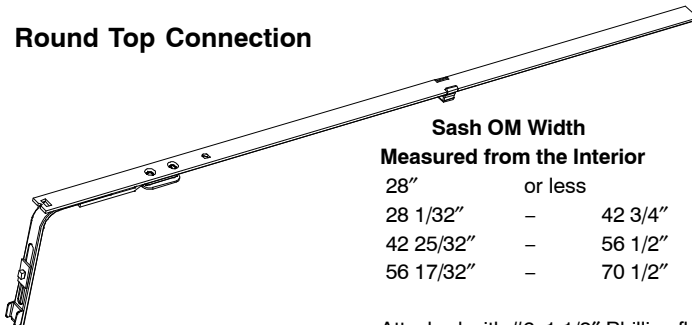
Variable Espagnolette (For Special Handle Height Only)



| Model No. | Part No. |
|-----------|----------|
| R610A05 | 10815051 |
| R610C11 | 10815052 |
| R610C21 | 10815053 |
| R610C31 | 10815054 |
| R610C41 | 10815055 |
| R610C51 | 10815056 |

Attached with #6x1 1/2" Phillips flathead wood screws.

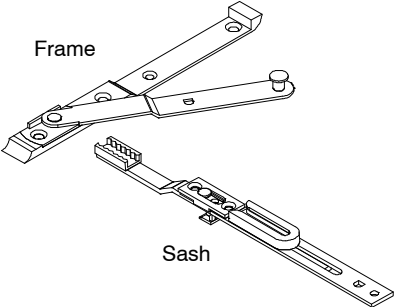
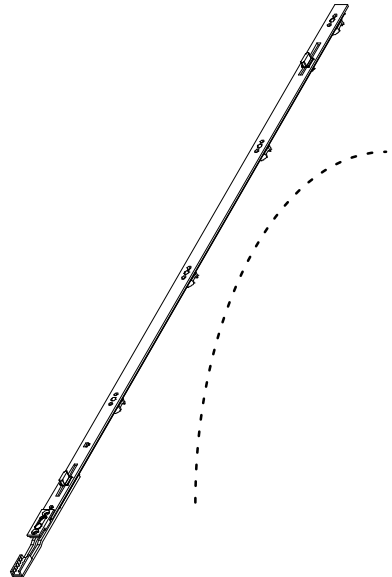
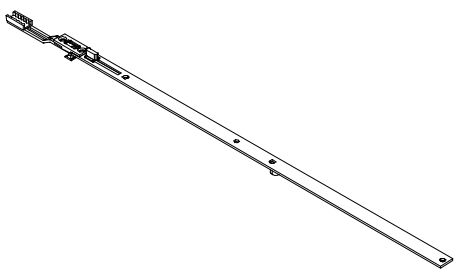
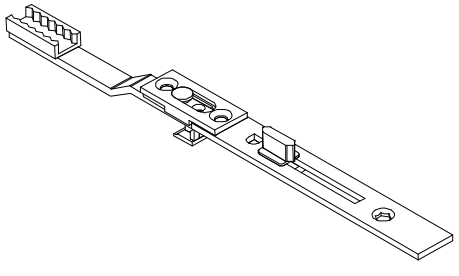
Round Top Connection



| Sash OM Width Measured from the Interior | | Bottom of Sash to Springline | Model No. | Part No. |
|---|-----------|---------------------------------|-----------|----------|
| 28" | or less | 36" or less | R608A72 | 10815151 |
| 28 1/32" | - 42 3/4" | 36 1/32" - 48" | R608A73 | 10815152 |
| 42 25/32" | - 56 1/2" | 48 1/32" - 62" | R608A74 | 10815153 |
| 56 17/32" | - 70 1/2" | 62 1/32" - 75 1/2" | R608A75 | 10815154 |

Attached with #6x1 1/2" Phillips flathead wood screws.

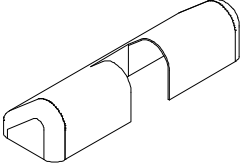
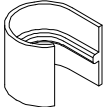
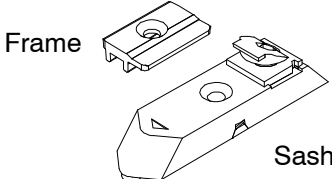
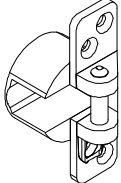
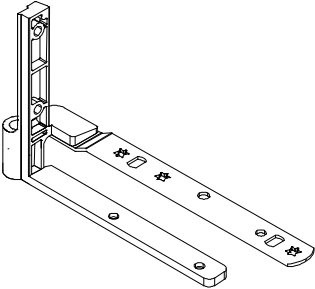
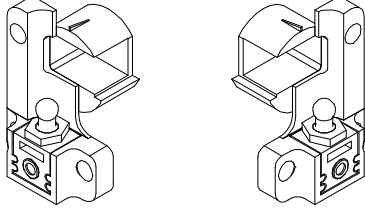
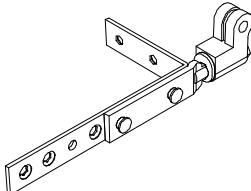
Note: Units with a sash springline over 75 1/2" require Extension and Lock 10815172.

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|--|--|-----------------|----------|
|  <p>Frame</p> <p>Sash</p> | <p>Round Top Stabilizer Arm Assembly R608C60</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> 1 - Stabilizer arm assembly 3 - #6x1 1/2" Phillips flathead wood screws (sash) 4 - #8x1 1/2" Phillips flathead wood screws (frame) | | 10815223 |
|  | <p>Round Top Arch Lock R608A10</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> 1 - Arch lock 11 - #6x1 1/2" Phillips flathead wood screws <p>NOTE: Frame must have 20" minimum radius for application. Lock must be formed to unit radius in the field.</p> | | 10815165 |
|  | <p>Extension and Lock R608B40</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> 1 - Extension and lock 4 - #6x1 1/2" Phillips flathead wood screws | | 10815172 |
|  | <p>Round Top Upper Lock R608B20</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> 1 - Extension and lock 4 - #6x1 1/2" Phillips flathead wood screws <p>NOTE: Frame must have less than 20" radius for application.</p> | | 10815164 |

OBSOLETE MISCELLANEOUS PARTS

Obsolete parts are subject to availability.

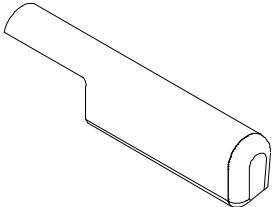
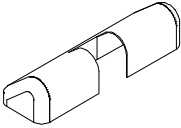
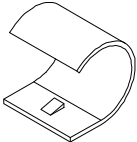
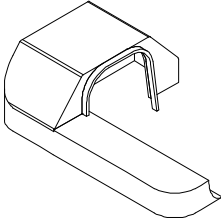
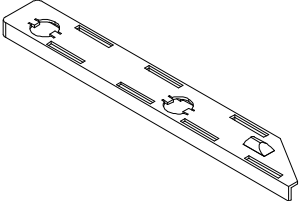
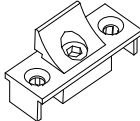
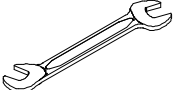
NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./COLO R | PART NO. |
|--|---|-----------------|----------------------|
|  | Top Hinge Cap (Frame) <i>Used up to 10/97</i> Overall width 2 13/16" (71) | WH BN | 10815320 10815322 |
|  | Top Hinge Cap (Frame) <i>Used up to 10/97</i> | WH BN | NA |
|  Frame Sash | Round Top Tilt-Turn Safety Device R609A20 <i>Includes:</i> 1 - Safety device 2 - #6x1 1/2" Phillips flathead wood screws | | NA |
|  | Top Hinge Receiver (Frame) <i>Used up to 1/26/00</i> M490B32 <i>Includes:</i> 1 - Top hinge receiver 4 - #8x1 1/2" Phillips flathead wood screws | | 10815156 |
|  | Bottom Hinge (Sash) <i>Used up to 1/26/00</i> R600C61R R600C61L <i>Includes:</i> 1 - Bottom hinge 3 - #6x1 1/2" Phillips flathead wood screws 4 - #8x1 1/2" Phillips flathead wood screws | LH RH | 10815215 10815217 |
|  Right Hand Left Hand | Bottom Hinge Receiver (Frame) <i>Used up to 1/26/00</i> R600B62R R600B62L <i>Includes:</i> 1 - Bottom hinge receiver 3 - #8x1 1/2" Phillips flathead wood screws | LH RH | NA 10815218 |
|  | Top Hinge (Sash) <i>Used up to 1/26/00</i> M490B31 <i>Includes:</i> 1 - Top hinge 5 - #6x1 1/2" Phillips flathead wood screws | | 10815155 |

OBSOLETE MISCELLANEOUS PARTS

Obsolete parts are subject to availability.

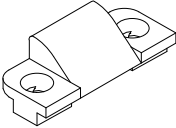
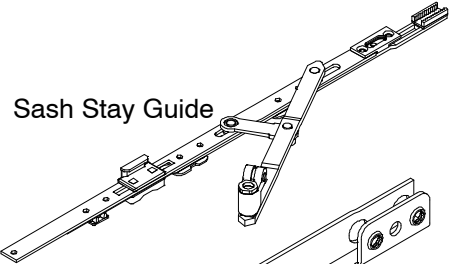
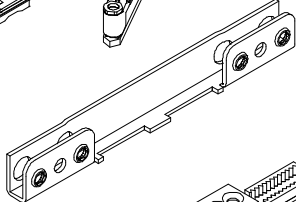
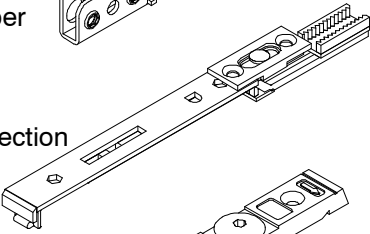
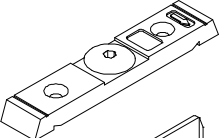
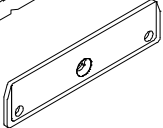
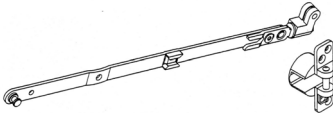
NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

| ILLUSTRATION NOT TO SCALE | DESCRIPTION | OPER./ COLOR | PART NO. |
|---|---|--------------------------------------|--|
|  | Vertical Bottom Hinge Cap (Sash) <i>Used up to 1/26/00</i> | LH WH RH WH LH BN RH BN | 10815331 10815330 10815337 10815336 |
|  | Top Hinge Cap (Frame) <i>Used from 10/97 – 1/26/00</i> Overall width 2 3/8" (60) | WH BN | NA 10815318 |
|  | Top Hinge Cap (Frame) <i>Used from 10/97 – 1/26/00</i> | WH BN | 10815317 NA |
|  | Bottom Hinge Cap (Frame) <i>Used up to 1/26/00</i> | LH WH RH WH LH BN RH BN | N/A 10815334 10815341 10815340 |
|  | Horizontal Bottom Hinge Cap (Sash) <i>Used up to 1/26/00</i> | LH WH RH WH LH BN RH BN | 10815333 10815332 10815339 10815338 |
|  | Snubber (Sash), Inswing Casement <i>Used from 10/97 – 9/00</i> M490A35 Hopper | | NA |
|  | Adjustment Wrench 13mm | | NA |

OBSOLETE MISCELLANEOUS PARTS

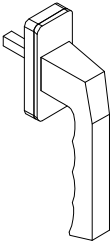
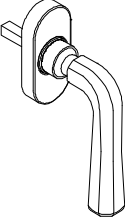
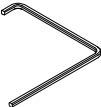
Obsolete parts are subject to availability.

NOTE: Always determine handing of parts with Marvin standard, as viewed from the exterior (Hinged side). Vendor numbers provided view handing from interior. **DO NOT SPECIFY USING VENDOR METHOD.**

| | | | |
|--|---|---|---|
|  | <p>Snubber (Frame), Inswing Casement Used from 10/97 – 9/00 M490A36 Hopper</p> | | <p>NA</p> |
| <p>Sash Stay Guide</p>  <p>Keeper</p>  <p>Connection</p>  <p>Support Ramp</p>  <p>Support Plate</p>  | <p>Round Top Tilt-Turn Hardware R608A08</p> <p><i>Includes:</i> 1 – Sash stay guide 1 – Keeper 1 – Connection 1 – Support ramp 1 – Support plate 13 – #6x1 1/2" Phillips flathead wood screws (sash stay guide and connection) 2 – #8x1 1/2" Phillips flathead wood screws (support ramp)</p> <p>NOTE: Individual parts not available as separate items.</p> | | <p>10815166 Check availability</p> |
|  | <p>Top Hinge, Complete (Frame) Sash OM width Measured from the interior</p> <p>25 1/2" or less 25 17/32" – 33 3/8" 33 13/32" – 49 1/8" 49 5/32" – 64 7/8"</p> <p>Attached with #8x 1 1/2" Phillips flathead wood screws</p> | <p>F507B10 F507B20 X516B30 F507B40</p> | <p>Check availability</p> <p>10815078 10815079 10815080 10815081</p> |

Obsolete parts are subject to availability.

NOTE: *Since the vendor determines handing from the interior, some parts may be stamped with an "L" or "R." For Marvin handing identification, an "L" will mean right hand and an "R" will mean left hand. DO NOT SPECIFY USING VENDOR METHOD.*

| | | | |
|--|---|----|----------|
|  | <p>Pistol Grip Handle</p> <p><i>Includes:</i> 1 - Pistol grip handle 1 - Installation package with #5x35mm machine screws</p> <p>NOTE: Handle style may vary depending on current stock.</p> | GD | NA |
|  | <p>Designer Handle</p> <p><i>Includes:</i> 1 - Designer handle 1 - Installation package with #5x35mm machine screws</p> <p>NOTE: Handle style may vary depending on current stock.</p> | BS | NA |
|  | <p>4 mm Allen Wrench</p> | | 10815231 |

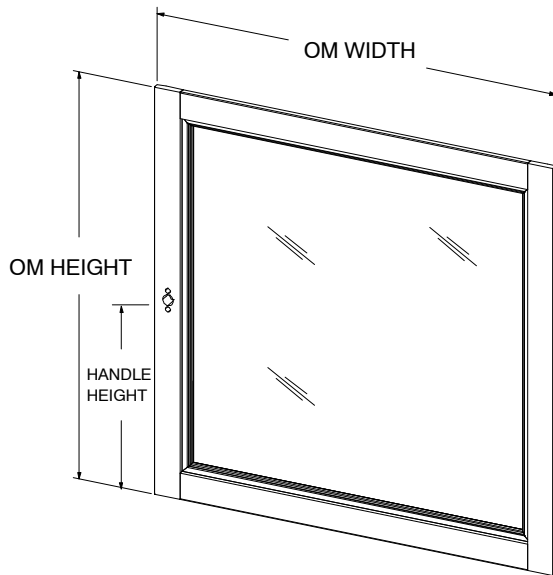
OBSOLETE SASH REPLACEMENT

ORDERING REPLACEMENT OPERATOR OR STATIONARY SASH FOR TILT-TURN, HOPPER AND INSWING CASEMENT

NOTE: This information is for sash produced prior to 6/06/2006.

To order replacement operating or stationary sash specify:

1. size (call number or OM of sash);
2. operation and handing;
3. glazing;
4. finish;
5. handle height (if other than standard);



Interior View

| Sash OM Height | | Handle Height |
|---------------------------|---------|---------------|
| Measure from the Interior | | |
| 25 3/32" | or less | 7 7/16" |
| 25 1/8" | - | 11 1/8" |
| 33" | - | 16 15/16" |
| 40 7/8" | - | 20 15/16" |
| 48 3/4" | - | 22 15/16" |
| 56 5/8" | - | 22 15/16" |
| 64 1/2" | - | 22 15/16" |
| 72 3/8" | - | 44 9/16" |
| 80 1/4" | - | 44 9/16" |
| 88 1/8" | - | 44 9/16" |

Note: Handle height is measured from the bottom of the sash to the center of the espagnolette mechanism.