

# CHAPTER 2

## CASEMASTER, FRENCH CASEMASTER AND VENTING PICTURE

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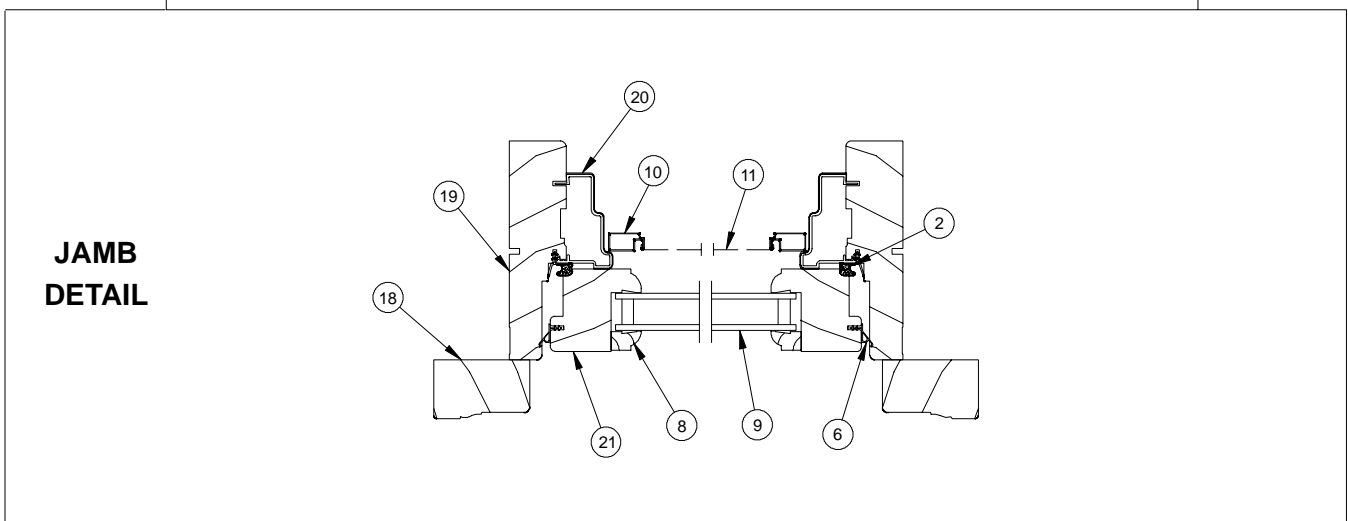
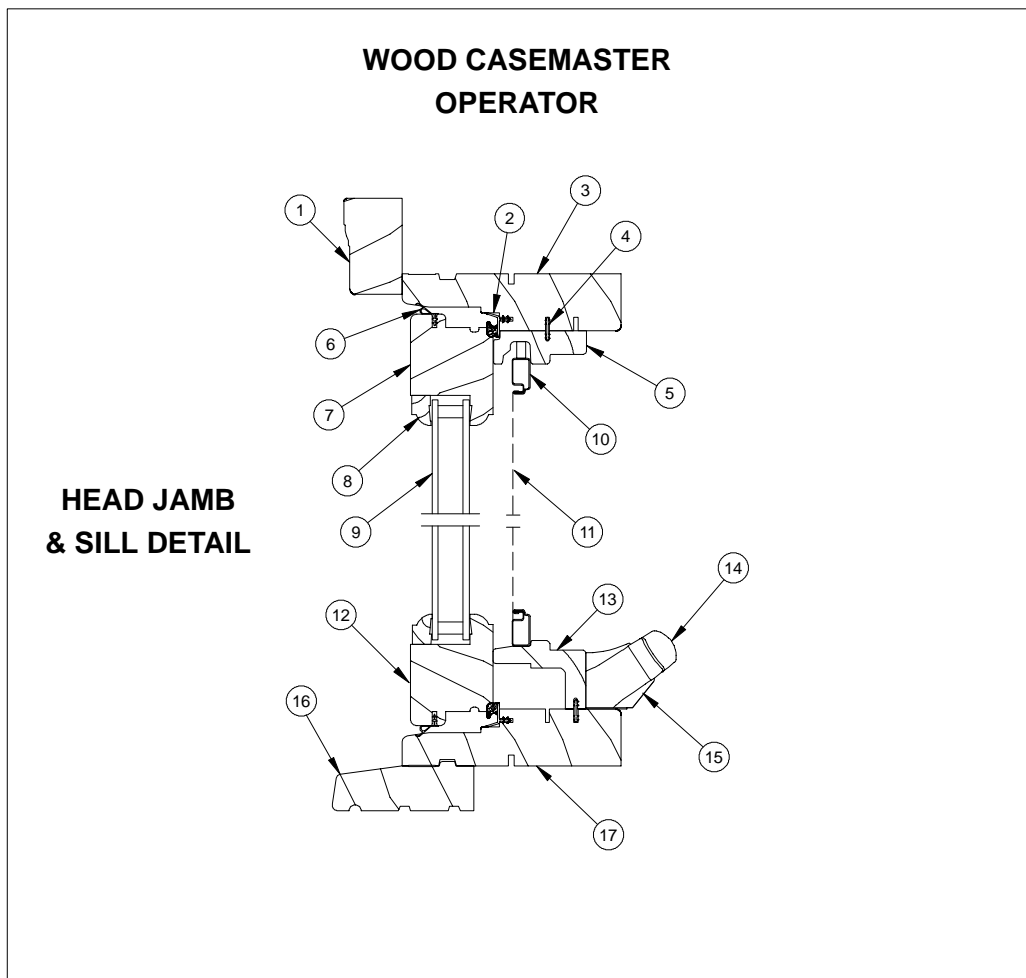
**ATTENTION:**

- 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.

PRODUCED	UNIT TYPE	FEATURES OR CHANGES	DISCONTINUED
1957	Wood Casement	Wood casement first appeared in catalogs as early as 1957. They featured outboard hinges, a sloped sill, Detroit roto-gear hardware and cam latches. Units were sold set-up and ready for installation, with brick mould casing, drip cap and a wide reversible blind stop. Available with single glaze or insulating glass. Wooden roto-gear cover was routed for single arm operator. Gold toned aluminum screen surround with green aluminum screen mesh was standard.	1979
1968	Wood Casemaster	Casemaster introduced featuring concealed hinges and flat sill. The flat sill was designed to make mulling in multiple units easy.  Utilized a Truth single arm operator.	Present  1982
1978	Marv-A-Gard Casemaster	Introduced aluminum clad Casemaster. Rolled form sash used with extruded frame. (The term Marv-A-Gard was discontinued in 1986.) Single glaze and ADL units used Polycron sash.	1986
1982	Casemaster	Dual arm hardware introduced in February on the wood Casemaster line. Clad Casemaster began using dual arm hardware in May of the same year.  Low profile sash lock introduced.  As a result of the hardware change, changes were also made in screen sizes and the screen channel.	Present  1994  Clad 1993 Wood 1994
1985	Wood Casemaster Marv-A-Gard Casemaster	Butterfly clip on hinge support arm was replaced with a built-in tension spring. Egress hardware introduced.	Present
1985	Wood Casemaster Marv-A-Gard Casemaster	New stationary brackets introduced to replace former male and female clips for securing the sash in the frame.	Present
1986	Wood Casemaster Clad Casemaster	Changed insulating glass ADL munt profile.	Clad 1993 Wood Present
1986	Wood Casemaster Clad Casemaster	Standard 3/4" glass replaced 1/2" insulating glass units.	Present
1987	Clad Casemaster	Change from rolled to an extruded aluminum sash. 1 3/4" view sash offered with aluminum extrusion. 2 1/2" rolled form sash available for replacement only. Polycron finish available for single glaze. Polycron finish available for ADL.	Present Present 1991 1988 1993
1987	Clad Casemaster	Change in frame and sash weather strip profile. Leaf type weather strip top rail, beige bulb type introduced for head jamb, side jambs and sill.	Clad 1993
1988	Clad Casemaster	Single glazed 1 lite clad Casemaster available with extruded aluminum sash.	1995
1989	Wood Casemaster Clad Casemaster	Marvin electric operator changed to Wintrol electric operator.	1993
1990	Wood Casemaster Clad Casemaster	Single arm operator with LEXAN cover introduced for Casemaster special shapes.	Present
1992	Wood French Casemaster	Introduced in March.	Present
1992	Wood Casemaster	Weather strip profiles upgraded. Simulated divided lite option introduced. Concealed snubber introduced.	1994 Present Present
1992	Clad Casemaster	Weather strip profiles upgraded.  Concealed snubber introduced.	Mid-1993 Present

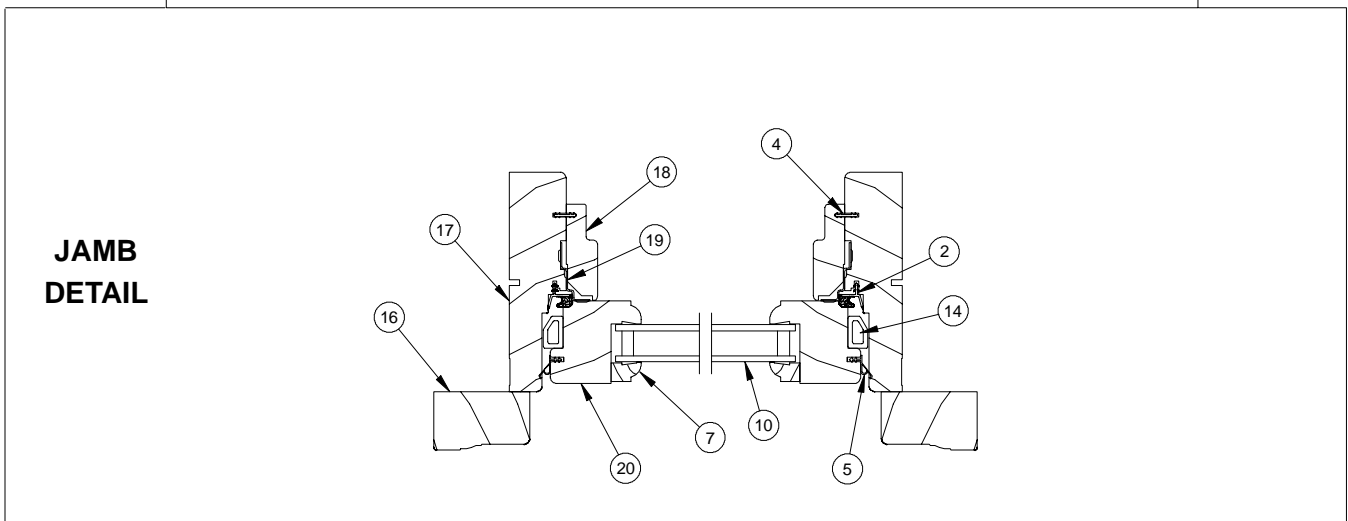
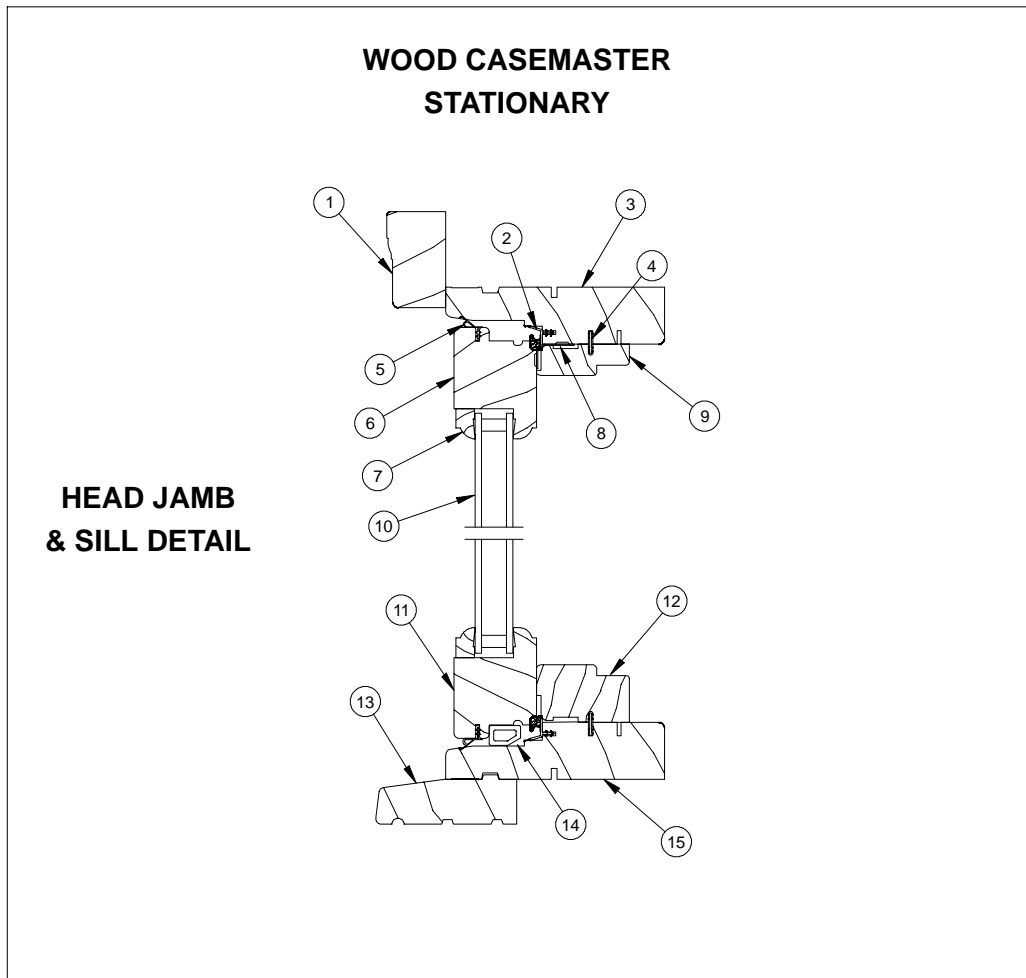
PRODUCED	UNIT TYPE	FEATURES OR CHANGES	DISCONTINUED
1992	Wood Casemaster Clad Casemaster	Changed from non-handed brass to handed brass locks.	1994
1992	Wood Casemaster Clad Casemaster	CN 28 series width changed to a modified hinge.	Present
1993	Clad Casemaster	Frame parts changed from 6/4 to 5/4 material. Change in frame weather strip. Introduced clad glazing cap and glazing bead and vinyl nailing fin/drip cap. Simulated divided lite option introduced. Introduced factory installed clad brick mould casing.	Present
		Change in screen size and screen finger pulls from black to clear	1994
1993	Wood Casemaster Clad Casemaster	Changed from Wintrol motor drive to Truth.	Present
1994	Wood Casemaster	Frame parts changed from 6/4 to 5/4 material. Sequential locking system introduced. Leaf spring/finger pull changed to bayonet fasteners. Change in frame weather strip. 2 1/2" sash replaced with 1 3/4" - 1" glazed sash.	Present
1994	Wood Casemaster Clad Casemaster French Casemaster	Curved handle and cover introduced.	Present
1994	Clad Casemaster	Sequential locking system introduced. Leaf spring/finger pull changed to bayonet fasteners. Change in screen size.	Present
1995	Wood Casemaster Clad Casemaster	Screen surround color changed from Dark Bronze to 03 Bronze.	Present
1997	Wood Casemaster Clad Casemaster French Casemaster	Changed Truth hardware coating from Yellow Zinc Dichromate (YZD) to E-Gard for standard hardware. Locking hardware on French Casemaster remains YZD.	Present
1999	Clad French Casemaster	7/99 Added Clad French Casemaster utilizes common parts with Clad Casemaster. Single arm roto-gears used up to CN 48. Dual arm roto-gears used from CN 48.	Present
1999	Wood French Casemaster	7/99 Redesigned Wood French Casemaster to standardize part profiles with Wood Casemaster and Clad French Casemaster. Single arm roto-gears used up to CN 48. Dual arm roto-gears used from CN 48.	Present
2002	Wood and Clad French Casemaster	11/2002 Coastal Hardware option discontinued for French Casemaster.	Present
2002	Clad Casemaster Clad French Casemaster	3/02 Stone White becomes a standard color. Arctic White transitions to a select color.	Present
2003	Wood and Clad Casemaster Wood and Clad French Casemaster	3/31/03 Satin Taupe (TP) hardware replaces bronze as standard. New interior stops, Satin Taupe aluminum screens, optional wood surround screens are available. New screen location and fastening system. New one-piece clad sash extrusion. Clad 1" picture units daylight opening change.	Present
2003	Wood and Clad Casemaster Wood and Clad French Casemaster	4/14/03 Newly designed Satin Taupe (TP) folding handle is standard.	Present
2003	Clad Casemaster	5/03 Changes Clad Casemaster tripane from 7.0 spacer to 8.0 spacer.	Present
2004	Wood and Clad Casemaster	1/04 Added Oil Rubbed Bronze and Satin Chrome to available finishes.	Present
2004	Wood and Clad Casemaster Wood and Clad French Casemaster	6/14/04 Satin Nickel hardware introduced as a standard option. Polished Chrome hardware discontinued.	Present

PRODUCED	UNIT TYPE	FEATURES OR CHANGES	DISCONTINUED
2004	Wood Casemaster Clad Casemaster	6/14/04 An improved Sentry II WLS motor drive system replaces the current LCII PowerDrive system.	Present
2004	Wood Casemaster	9/13/2004 Reduced the overall width of the WCM operator, stationary, and awning stiles by .047 inches.	Present
2005	Wood and Clad French Casemaster	9/12/05 Released new Siegenia hardware for the rectangle French Casemaster units only. Hardware cover handle placement changed and primary astragal profile changed from W3138 to W9011.	Present
2006	Clad Casemaster Venting Picture	5/2006 Introduced the venting option to the Casemaster and Awning product lines.	Present
2006	Wood and Clad Casemaster  Wood and Clad French Casemaster	6/2006 W7018 (Stationary Sill Cover) is replaced with W8723 for CCM and WCM stationary and picture units. WFCM, CFCM, and WFCM RT stationary units will now use W8459 for both operator and stationary covers. W7048 (wood support block) will be used on FCM stationary units only.	Present



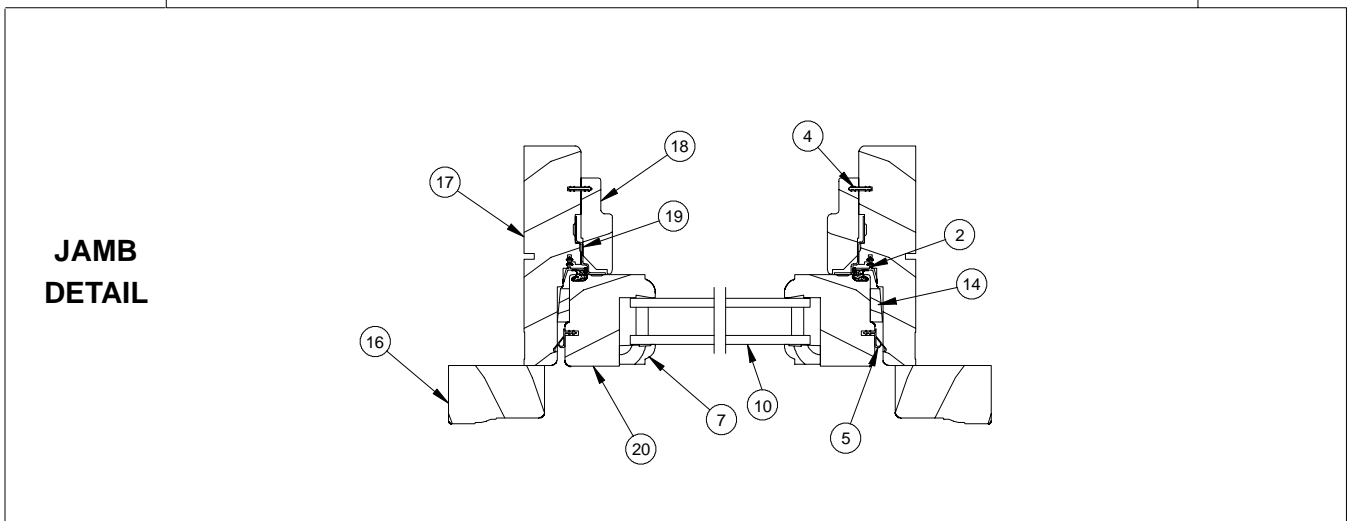
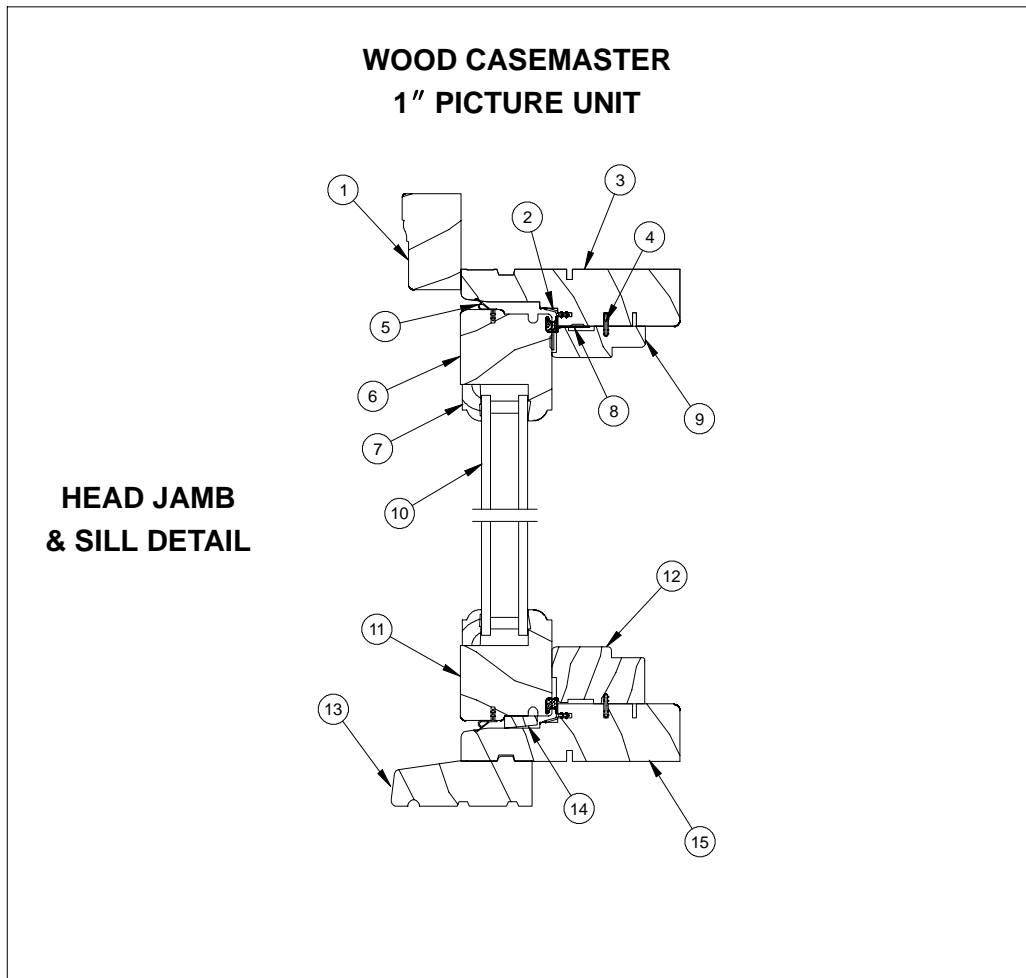
NOTE: Not to scale; specifications subject to change without notice.

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|---------------------------------|---------------------------|---------------------------------------|
| 1. Head Jamb Brick Mould Casing | 9. Insulated Glass        | 17. Sill                              |
| 2. Frame Weather Strip, V138    | 10. Screen Frame          | 18. Jamb Brick Moulding Casing, W1047 |
| 3. Head Jamb                    | 11. Screen Mesh           | 19. Jamb                              |
| 4. Connecting Barb, V803        | 12. Bottom Rail           | 20. Jamb Stop, V1162                  |
| 5. Head Jamb Stop, W8461        | 13. Hardware Cover, W8459 | 21. Stile                             |
| 6. Sash Weather Strip, V195     | 14. Folding Crank Handle  |                                       |
| 7. Top Rail                     | 15. Folding Crank Cover   |                                       |
| 8. Glazing Bead, W4009          | 16. Subsill, W2197        |                                       |



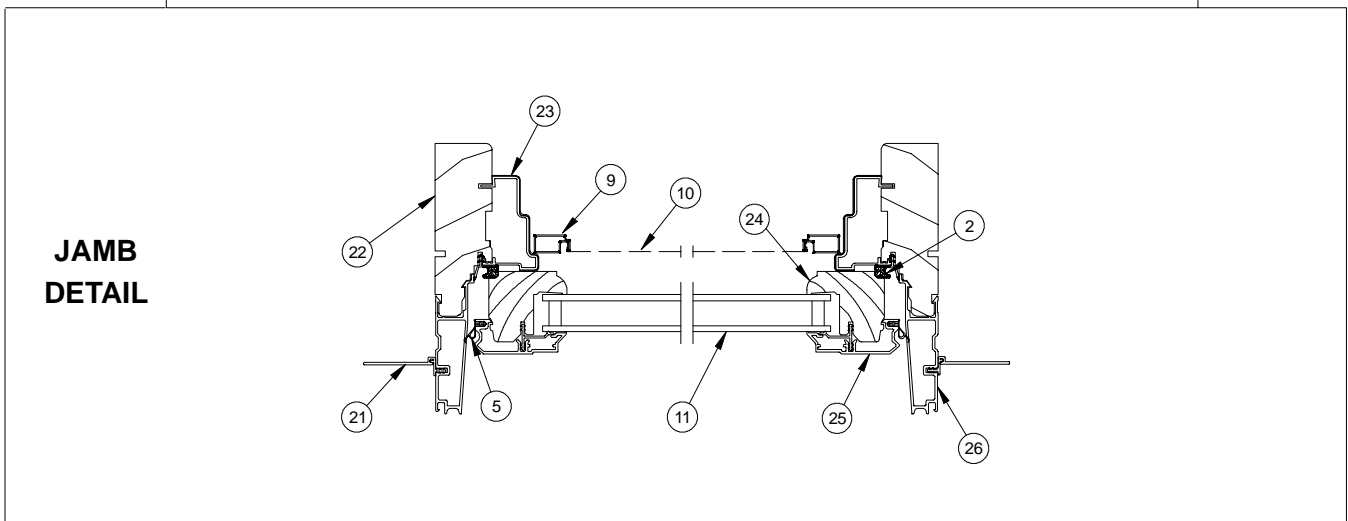
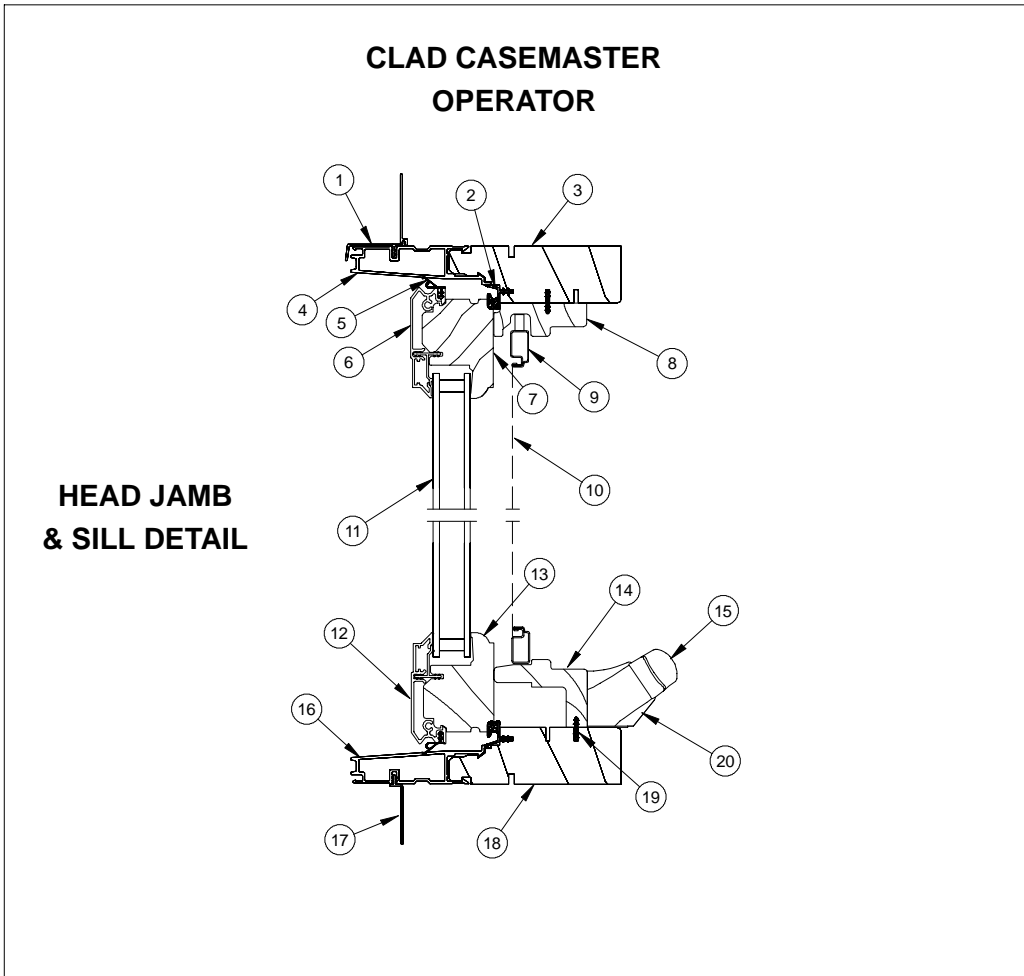
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|--|---------------------------------|------------------------------------|
| 1. Head Jamb Brick Mould Casing, W1047 | 9. Head Jamb Stop, W7001        | 16. Jamb Brick Mould Casing, W1047 |
| 2. Frame Weather Strip, V138           | 10. Insulated Glass             | 17. Jamb                           |
| 3. Head Jamb                           | 11. Bottom Rail                 | 18. Jamb Stop, W7015               |
| 4. Connecting Barb, V803               | 12. Sill Stop, W8723            | 19. Jamb Stationary Bracket        |
| 5. Sash Weather Strip, V195            | 13. Subsill, W2197              | 20. Stile                          |
| 6. Top Rail                            | 14. Sash Centering Block, V1289 |                                    |
| 7. Glazing Bead, W4009                 | 15. Sill                        |                                    |
| 8. Head Jamb/Sill Stationary Bracket   |                                 |                                    |



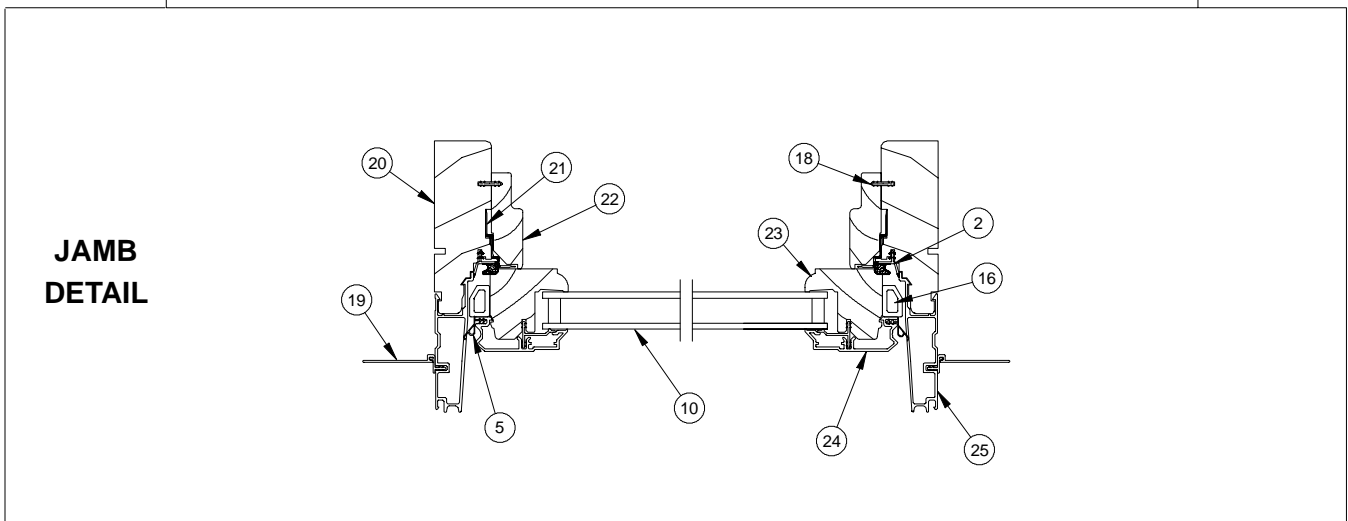
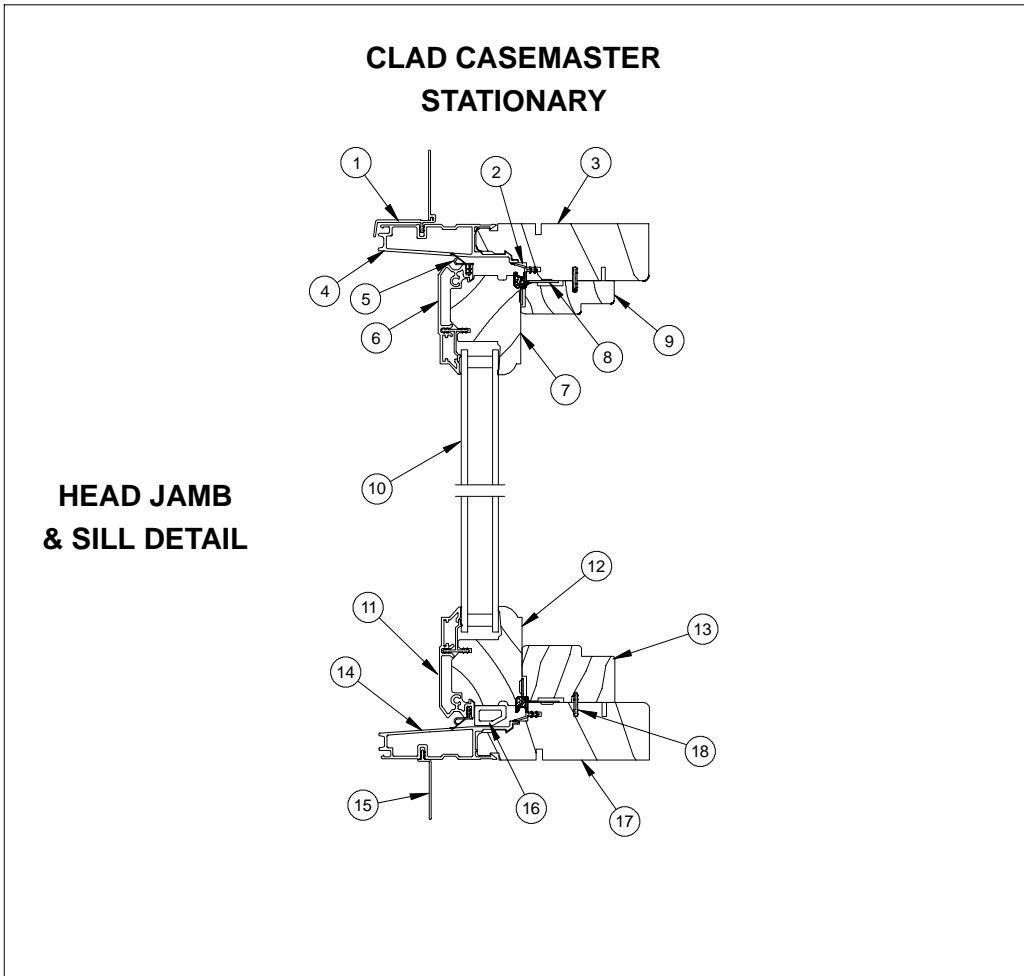
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|--|--------------------------|------------------------------------|
| 1. Head Jamb Brick Mould Casing, W1047 | 9. Head Jamb Stop, W7001 | 16. Jamb Brick Mould Casing, W1047 |
| 2. Frame Weather Strip, V138           | 10. Insulated Glass      | 17. Jamb                           |
| 3. Head Jamb                           | 11. Bottom Rail          | 18. Jamb Stop, W7015               |
| 4. Connecting Barb, V803               | 12. Sill Stop, W8723     | 19. Jamb Stationary Bracket        |
| 5. Sash Weather Strip, V195            | 13. Subsill, W2197       | 20. Stile                          |
| 6. Top Rail                            | 14. Setting Block        |                                    |
| 7. Glazing Bead, W4005                 | 15. Sill                 |                                    |
| 8. Head Jamb/Sill Stationary Bracket   |                          |                                    |



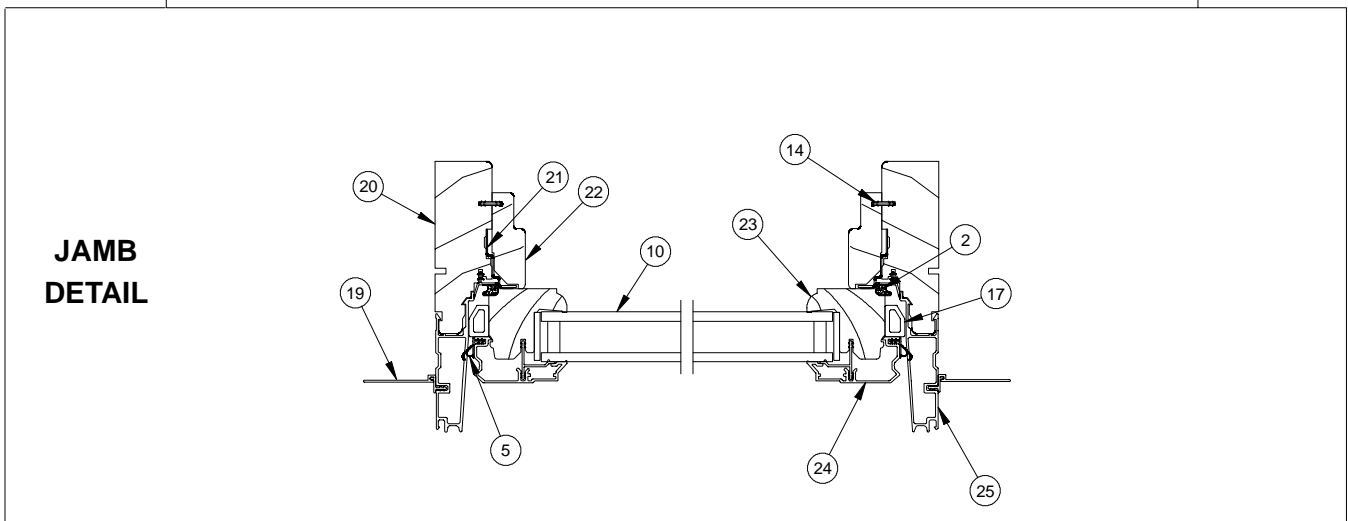
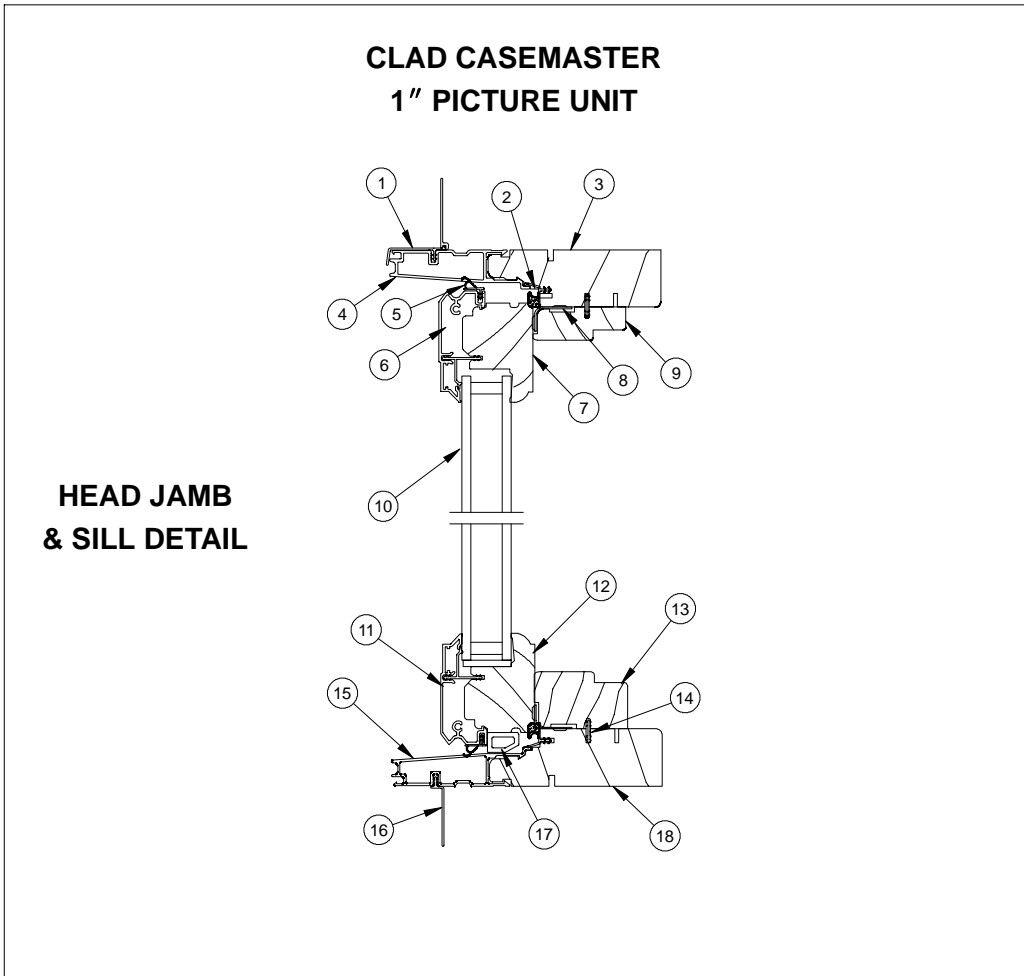
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|-------------------------------------|---------------------------|--------------------------------|
| 1. Head Jamb Nailing Fin & Drip Cap | 10. Screen Mesh           | 19. Connecting Barb, V803      |
| 2. Frame Weather Strip, V138        | 11. Insulated Glass       | 20. Folding Crank Handle Cover |
| 3. Head Jamb                        | 12. Bottom Rail Cladding  | 21. Jamb Nailing Fin           |
| 4. Head Jamb Cladding               | 13. Bottom Rail           | 22. Jamb                       |
| 5. Sash Weather Strip, V195         | 14. Hardware Cover, W8459 | 23. Jamb Stop, V1162           |
| 6. Top Rail Cladding                | 15. Folding Crank Handle  | 24. Stile                      |
| 7. Top Rail                         | 16. Sill Cladding         | 25. Stile Cladding             |
| 8. Head Jamb Stop, W8461            | 17. Sill Nailing Fin      | 26. Jamb Cladding              |
| 9. Screen Frame                     | 18. Sill                  |                                |



NOTE: Not to scale; specifications subject to change without notice.

- |                                      |                                 |                             |
|--------------------------------------|---------------------------------|-----------------------------|
| 1. Head Jamb Nailing Fin & Drip Cap  | 11. Bottom Rail Cladding        | 20. Jamb                    |
| 2. Frame Weather Strip, V138         | 12. Bottom Rail                 | 21. Jamb Stationary Bracket |
| 3. Head Jamb                         | 13. Sill Stop, W8723            | 22. Jamb Stop, W7015        |
| 4. Head Jamb Cladding                | 14. Sill Cladding               | 23. Stile                   |
| 5. Sash Weather Strip, V195          | 15. Sill Nailing Fin            | 24. Stile Cladding          |
| 6. Top Rail Cladding                 | 16. Sash Centering Block, V1289 | 25. Jamb Cladding           |
| 7. Top Rail                          | 17. Sill                        |                             |
| 8. Head Jamb/Sill Stationary Bracket | 18. Connecting Barb, V803       |                             |
| 9. Head Jamb Stop, W7001             | 19. Jamb Nailing Fin            |                             |
| 10. Insulated Glass                  |                                 |                             |

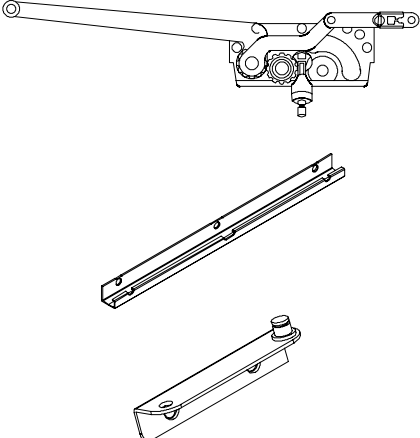
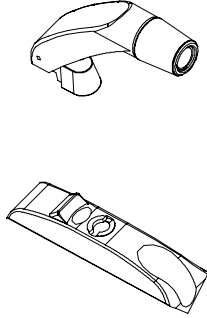
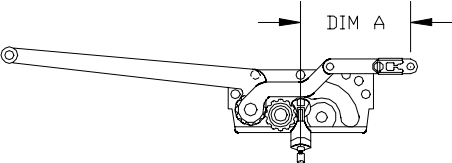


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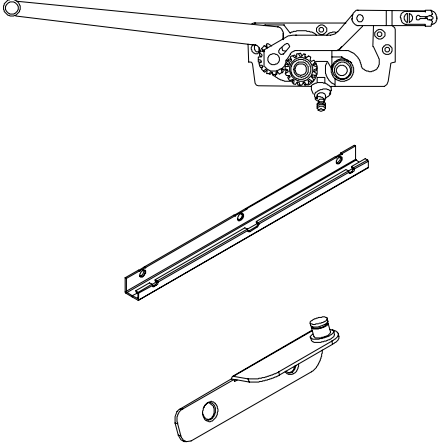
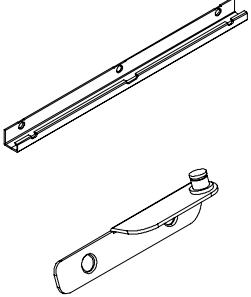
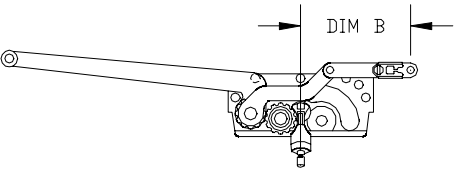
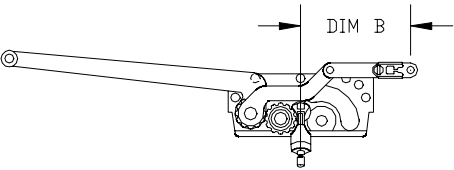
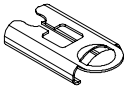
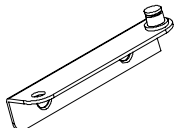
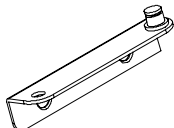
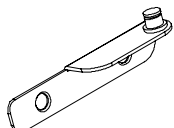
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|-------------------------------------|---------------------------------|-----------------------------|
| 1. Head Jamb Nailing Fin & Drip Cap | 10. Insulated Glass             | 18. Sill                    |
| 2. Frame Weather Strip, V138        | 11. Bottom Rail Cladding        | 19. Jamb Nailing Fin        |
| 3. Head Jamb                        | 12. Bottom Rail                 | 20. Jamb                    |
| 4. Head Jamb Cladding               | 13. Sill Stop, W8723            | 21. Jamb Stationary Bracket |
| 5. Sash Weather Strip, V195         | 14. Connecting Barb, V803       | 22. Jamb Stop, W7015        |
| 6. Top Rail Cladding                | 15. Sill Cladding               | 23. Stile                   |
| 7. Top Rail                         | 16. Sill Nailing Fin            | 24. Stile Cladding          |
| 8. Header/Sill Stationary Bracket   | 17. Sash Centering Block, V1289 | 25. Jamb Cladding           |
| 9. Head Jamb Stop, W7001            |                                 |                             |

When ordering replacement Casemaster parts specify:

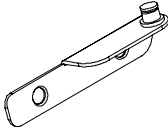
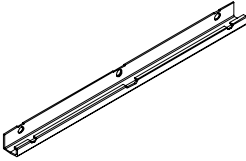
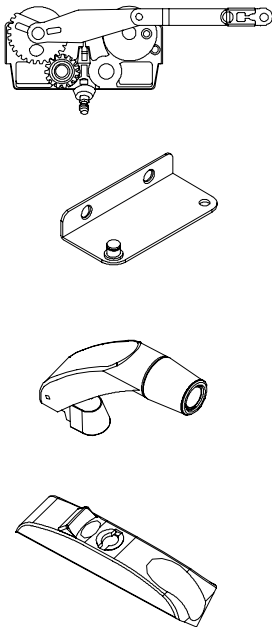
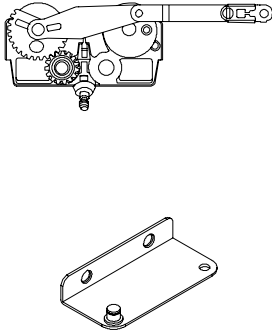
1. type of unit;
2. part number;
3. description.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Dual Arm Roto-gear Operator, Complete</b> CN 20 and over Daylight opening width 14 1/2" (368) and over</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Dual arm roto-gear LH - 10815500 RH - 10815501</li> <li>1 - Sash track 10830706</li> <li>1 - Dual arm sash bracket LH - 10810339 RH - 10810340</li> <li>1 - Folding handle and cover package TP - 10898280 BZ - 10898300 WH - 10898290</li> <li>5 - #8x1" Phillips flat head wood screws (11800740)</li> <li>2 - #7HD - #8x1" Phillips flat head screws (11800773)</li> </ul>	<p>LH TP 10815508 RH TP 10815509 LH BZ 10815510 RH BZ 10815511</p> <p>LH WH 10815512 RH WH 10815513</p>	
	<p><b>Dual Arm Roto-gear Operator, Complete, Coastal Hardware</b> CN 20 and over Daylight opening width 14 1/2" (368) and over</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Dual arm roto-gear LH - 10814804 RH - 10814807</li> <li>1 - Sash track 10814812</li> <li>1 - Dual arm sash bracket LH - 10814832 RH - 10814833</li> <li>10- #8x1" Phillips flat head wood screws (11800805)</li> </ul> <p>NOTE: Curved handle and cover package not included with Coastal Hardware</p>	<p>LH 11869391 RH 11869392</p>	
 <p>Standard Dual Arm Dim A = 5 11/64" (131)</p>	<p><b>Dual Arm Roto-gear Operator</b> CN 20 and over Daylight opening width 14 1/2" (368) and over</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Dual arm roto-gear</li> <li>5 - #8x1" Phillips flat head wood screws (11800740)</li> </ul> <p><b>Dual Arm Roto-gear Operator, Coastal Hardware</b> CN 20 and over Daylight opening width 14 1/2" (368) and over</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Dual arm roto-gear</li> <li>5 - #8x1" Phillips flat head wood screws (11800805)</li> </ul>	<p>LH 10815500 RH 10815501</p> <p>LH 10814804 RH 10814807</p>	

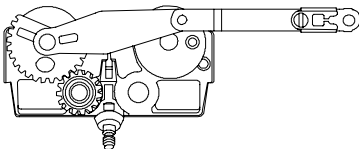
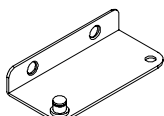
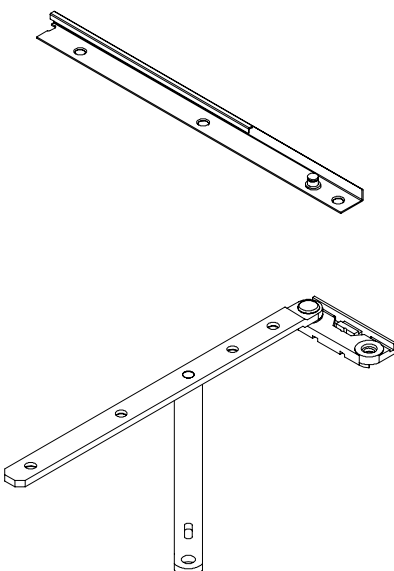
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Egress Dual Arm Roto-gear Operator, Complete</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Egress dual arm roto-gear LH - 10814800 RH - 10814801</li> <li>1 - Sash track 10830706</li> <li>1 - Egress dual arm sash bracket LH - 10814830 RH - 10814831</li> <li>5 - #8x1" Phillips flat head wood screws (11800740)</li> <li>5 - #7HD - #8x1" Phillips flat head screws (11800773)</li> </ul>	<p>LH RH</p>	<p>11869342 11869343</p>
	<p><b>Egress Dual Arm Roto-gear Operator, Complete, Coastal Hardware</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Egress dual arm roto-gear LH - 10814802 RH - 10814803</li> <li>1 - Sash track 10814812</li> <li>1 - Egress dual arm sash bracket LH - 10814834 RH - 10814835</li> <li>10 - #8x1" Phillips flat head wood screws (11800805)</li> </ul>	<p>LH RH</p>	<p>11869335 11869336</p>
 <p>Egress Dual Arm Dim B = 2 29/32" (74)</p>	<p><b>Egress Dual Arm Roto-gear Operator</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Egress dual arm roto-gear</li> <li>5 - #8x1" Phillips flat head wood screws (11800740)</li> </ul>	<p>LH RH</p>	<p>10814800 10814801</p>
	<p><b>Egress Dual Arm Roto-gear Operator, Coastal Hardware</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Egress dual arm roto-gear</li> <li>5 - #8x1" Phillips flat head wood screws (11800805)</li> </ul>	<p>LH RH</p>	<p>10814802 10814803</p>
	<p><b>Detach Clip, Dual Arm Roto-gear</b></p>	<p>Mill Finish</p>	<p>10814839</p>
	<p><b>Dual Arm Sash Bracket</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Dual arm sash bracket</li> <li>2 - #7HD - #8x1" Phillips flat head wood screws (11800773)</li> </ul>	<p>LH RH</p>	<p>10810339 10810340</p>
	<p><b>Dual Arm Sash Bracket, Coastal Hardware</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Dual arm sash bracket</li> <li>2 - #8x1" Phillips flat head wood screws (11800805)</li> </ul>	<p>LH RH</p>	<p>10814832 10814833</p>
	<p><b>Egress Dual Arm Sash Bracket</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Egress dual arm sash bracket</li> <li>2 - #7HD - #8x1" Phillips flat head wood screws (11800773)</li> </ul>	<p>LH RH</p>	<p>10814830 10814831</p>

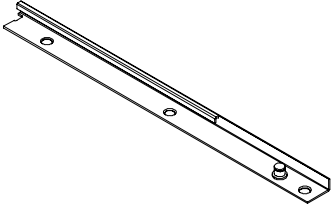
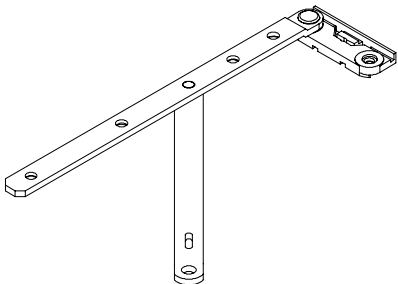
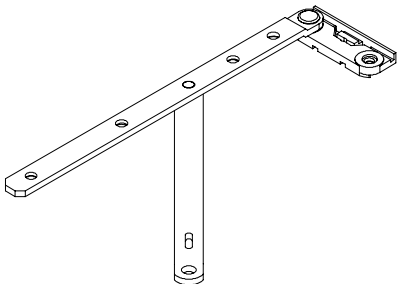
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Egress Dual Arm Sash Bracket, Coastal Hardware</b> Includes: 1 - Egress dual arm sash bracket 2 - #8x1" Phillips flat head wood screws (11800805)</p>	LH RH	10814834 10814835
	<p><b>Sash Track</b> Includes: 1 - Sash track 3 - #7HD - #8x1" Phillips flat head wood screws (11800773)</p>		10830706
	<p><b>Sash Track, Coastal Hardware</b> Includes: 1 - Sash track 3 - #8x1" Phillips flat head wood screws (11800805)</p>		10814812
	<p><b>Dyad Operator, Complete</b> CN under 20 Daylight opening width under 14 1/2" (368) The dyad operator is also know as a hinged single arm operator. Includes: 1 - Dyad operator     LH - 10815400     RH - 10815401 1 - Dyad sash bracket     LH - 10810415     RH - 10810416 1 - Folding handle and cover package     TP - 10898280     BZ - 10898300     WH - 10898290 5 - #8x1" Phillips flat head wood screws (11800740) 2 - #7HD - #8x1" Phillips flat head screws (11800773)</p>	LH TP RH TP LH BZ RH BZ  LH WH RH WH	11873218 11873219 11873220 11873221  11873222 11873223
	<p><b>Dyad Operator, Complete, Coastal Hardware</b> CN under 20 Daylight opening width under 14 1/2" (368) The dyad operator is also know as a hinged single arm operator. Includes: 1 - Dyad operator     LH - 10814805     RH - 10814808 1 - Dyad sash bracket     LH - 10814836     RH - 10814837 7 - #8x1" Phillips flat head wood screws (11800805)</p>	LH RH	11873210 11873211

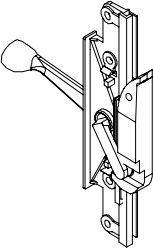
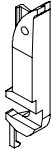

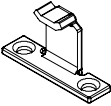
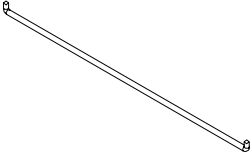
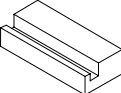
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Dyad Roto-gear Operator</b> CN under 20 Daylight opening width under 14 1/2" (368) The dyad operator is also know as a hinged single arm operator. <i>Includes:</i> 1 - Dyad roto-gear operator 5 - #8x1" Phillips flat head wood screws (11800740)</p>	LH RH	10815400 10815401
	<p><b>Dyad Roto-gear Operator, Coastal Hardware</b> CN under 20 Daylight opening width under 14 1/2" (368) The dyad operator is also know as a hinged single arm operator. <i>Includes:</i> 1 - Dyad roto-gear operator 5 - #8x1" Phillips flat head wood screws (11800805)</p>	LH RH	10814805 10814808
	<p><b>Dyad Sash Bracket</b> <i>Includes:</i> 1 - Dyad sash bracket 2 - #7HD - #8x1" Phillips flat head wood screws (11800773)</p>	LH RH	10810415 10810416
	<p><b>Dyad Sash Bracket, Coastal Hardware</b> <i>Includes:</i> 1 - Dyad sash bracket 2 - #8x1" Phillips flat head wood screws (11800805)</p>	LH RH	10814836 10814837
	<p><b>Hinge Pair, Complete</b> CN 16, CN 20, CN 24, CN 32, CN 36 <i>Includes:</i> 2 - Hinge tracks LL-UR - 10814760 UL-LR - 10814761 2 - Hinge arm assemblies LL-UR - 10814754 UL-LR - 10814755 6 - #7x5/8" Phillips flat head screws (11800736) 8 - #7HD - #8x1" Phillips flat head screws (11800773)</p>		11873204
	<p><b>Hinge Pair, Complete, Coastal Hardware</b> CN 16, CN 20, CN 24, CN 32, CN 36 <i>Includes:</i> 2 - Hinge tracks LL-UR - 10814862 UL-LR - 10814863 2 - Hinge arm assemblies LL-UR - 10814864 UL-LR - 10814865 6 - #7x5/8" Phillips flat head screws (11800736) 8 - #8x1" Phillips flat head screws (11800805)</p>		11873205

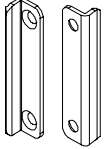
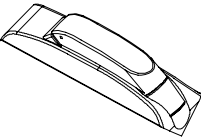
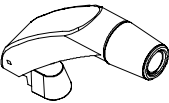
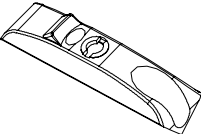
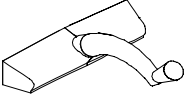

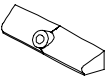
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ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Hinge Pair, Complete</b> CN 28 Daylight opening width 22 1/2" (572) <i>Includes:</i> 2 - Hinge tracks     LL-UR - 10814760     UL-LR - 10814761 2 - Hinge arm assemblies     LL-UR - 10814841     UL-LR - 10814842 6 - #7x5/8" Phillips flat head screws (11800736) 8 - #7HD - #8x1" Phillips flat head screws (11800773)</p>		11873208
	<p><b>Hinge Pair, Complete, Coastal Hardware</b> CN 28 Daylight opening width 22 1/2" (572) <i>Includes:</i> 2 - Hinge tracks     LL-UR - 10814862     UL-LR - 10814863 2 - Hinge arm assemblies     LL-UR - 10814868     UL-LR - 10814869 6 - #7x5/8" Phillips flat head screws (11800736) 8 - #8x1" Phillips flat head screws (11800805)</p>		11873209
	<p><b>Egress Hinge Pair, Complete</b> <i>Includes:</i> 2 - Hinge tracks     LL-UR - 10814760     UL-LR - 10814761 2 - Hinge arm assemblies     LL-UR - 10814860     UL-LR - 10814861 6 - #7x5/8" Phillips flat head screws (11800736) 8 - #7HD - #8x1" Phillips flat head screws (11800773)</p>		11869344
	<p><b>Egress Hinge Pair, Complete, Coastal Hardware</b> <i>Includes:</i> 2 - Hinge tracks     LL-UR - 10814862     UL-LR - 10814863 2 - Hinge arm assemblies     LL-UR - 10814866     UL-LR - 10814867 6 - #7x5/8" Phillips flat head screws (11800736) 8 - #8x1" Phillips flat head screws (11800805)</p>		11869345

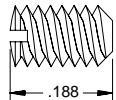
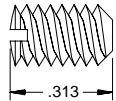
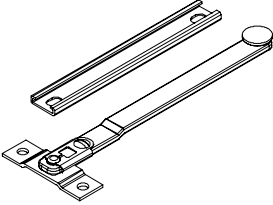
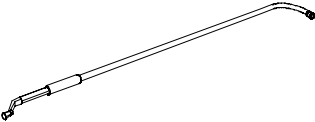

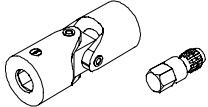
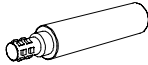

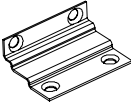
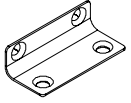
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ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
 <p>LH Shown</p>	<p><b>Sequential Lock, Primary</b> Primary cam included <i>Includes:</i> 1 - Primary sequential lock with primary cam 3 - #8x1" Phillips pan head wood screws (11808100)</p>	<p>LH TP 10816062 RH TP 10816063 LH BZ 10816050 RH BZ 10816051 LH WH 10816052 RH WH 10816053 LH BS 10814850 RH BS 10814851 LH AB 10816058 RH AB 10816059 LH SC 10816056 RH SC 10816057 LH SN 10816079 RH SN 10816080 LH ORBZ 10816067 RH ORBZ 10816068</p>	
	<p><b>Cam, Primary Lock</b></p>	<p>LH RH</p>	<p>10816048 10816049</p>
	<p><b>Sequential Lock, Secondary</b> Secondary cam included <i>Includes:</i> 1 - Secondary sequential lock with secondary cam 3 - #8x1" Phillips pan head wood screws (11808100)</p>	<p>BK</p>	<p>10816060</p>
	<p><b>Keeper, Sequential Lock</b> <i>Includes:</i> 1 - Keeper 2 - #7HD - #8x1" Phillips flat head wood screws (11800773)</p>		<p>10816065</p>
	<p><b>Keeper, Sequential Lock, Coastal Hardware</b> <i>Includes:</i> 1 - Keeper 2 - #8x1" Phillips flat head wood screws (11800805)</p>		<p>10814816</p>
	<p><b>Tie Bar, Sequential Lock</b> CN 32 thru 40, 12 7/8" (327) over CN 40 thru 48, 24 7/8" (632) over CN 48 thru 56, 32 7/8" (835) over CN 56 thru 64, 38 7/8" (987) over CN 64 thru 72, 48 7/8" (1241)</p>	<p>Mill Finish</p>	<p>10816070 10816071 10816074 10816072 10816073</p>
	<p><b>Support Block, Tie Bar</b> W7009 1 block required on CN 48 2 required over CN 48 to under CN 72 3 required CN 72 and over</p>		<p>32459992</p>

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ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Snubber, Concealed, Coastal Hardware</b> Wood Casemaster 2 per package</p> <p><i>Includes:</i> 2 - Snubbers 10899110 2 - #7x5/8" Phillips flat head wood screws (11800736) 2 - #8x1" Phillips flat head wood screws (11800805)</p>		11873197
	<p><b>Snubber, Concealed, Coastal Hardware</b> Clad Casemaster 2 per package</p> <p><i>Includes:</i> 2 - Snubbers 10899110 2 - #7x1/2" Phillips flat head screws (11800753) 2 - #8x1" Phillips flat head wood screws (11800805)</p>		11873295
	<p><b>Folding Handle and Cover Package</b></p> <p><i>Includes:</i> 1 - Handle with set screw 1 - Cover</p>	TP BZ WH BS AB SC SN ORBZ	10898280 10898300 10898290 10898310 10898320 10898340 10898360 10898350
	<p><b>Folding Handle</b></p> <p><i>Includes:</i> 1 - Handle with set screw</p>	TP BZ WH BS AB SC SN ORBZ	10898282 10898302 10898292 10898312 10898322 10898342 10898362 10898352
	<p><b>Folding Handle Cover</b></p> <p><i>Includes:</i> 1 - Cover</p>	TP BZ WH BS AB SC SN ORBZ	10898281 10898301 10898291 10898311 10898321 10898341 10898361 10898351
	<p><b>Curved Handle and Cover Package</b></p> <p><i>Includes:</i> 1 - Handle with set screw 1 - Cover</p>	TP BZ WH BS	10898270 10898240 10898250 10898260
	<p><b>Handle, Curved with set screw</b></p>	TP BZ WH BS	10898272 10898242 10898252 10898263
	<p><b>Handle Cover, Curved</b></p>	TP BZ WH BS	10898271 10898241 10898251 10898261

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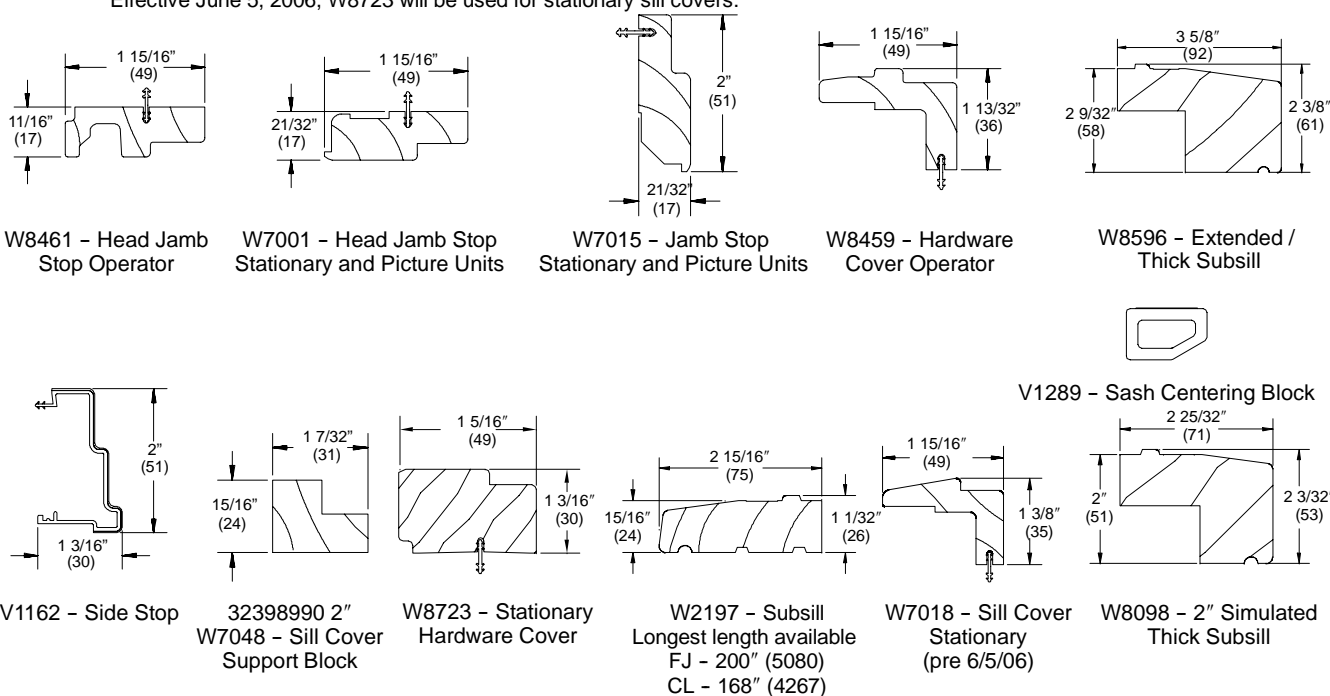
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Set Screw for Folding Handle</b>	SS	10898283
	<b>Set Screw for Curved Handle</b>	TP BZ WH	10898273 10898243 10898253
	<b>Sash Limiter</b> Limits sash opening. Specify 5° - 10° - 15° - 20° limit. <i>Includes:</i> 1 - Arm with butterfly clip and sill stud bracket 1 - Sash track 4 - SS #7x3/4" Phillips sheet metal screws		10814815
	<b>Crank, Pole</b>  60" (1524) 96" (2438) 138" (3505)	Mill Finish	01590321 01590411 05540711
	<b>Adapter, Pole Crank</b>	Mill Finish	05570441
	<b>Universal and Insert</b> <i>Includes:</i> 1 - Universal BZ - 05570440 TP-05570443 1 - Insert 05570434	TP BZ	11869387 11869359
	<b>Extension</b> 2" (51) for Casemaster Handle	TP BZ WH	05570436 05570432 05570430
	<b>Extension</b> 4" (102) for Casemaster Handle	TP BZ WH	05570435 05570431 05570429
	<b>Stationary Bracket, Side Jamb</b> <i>Includes:</i> 1 - Stationary bracket 4 - #7 x 7/8" Phillips flat head screws (11800798)	Mill Finish	11841120
	<b>Stationary Bracket, Head Jamb and Sill</b> <i>Includes:</i> 1 - Stationary bracket 4 - #7 x 7/8" Phillips flat head screws (11800798)	Mill Finish	11841000

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## CURRENT REPLACEMENT WOOD & VINYL PARTS - OPERATOR AND STATIONARY UNITS

	Clad March 31, 2003 to present. Screens use bow springs and lifts.	Wood March 31, 2003 to present. Screens use bow springs and lifts.
Head Jamb Stop Operator	W8461	W8461
Head Jamb Stop Stationary	W7001	W7001
Hardware Cover Operator	W8459	W8459
Sill Cover Stationary	W7018/W8723*	W7018/W8723*
Jamb Stop Stationary	W7015	W7015
Side Stop	V1162	V1162
84" (2134) Bare	11110849	11110849
96" (2438) Bare	11110969	11110969
84" (2134) Prime	11111849	11111849
96" (2438) Prime	11111969	11111969
Sill Cover Support Block	W7048	W7048
Subsill	---	W2197
Sash Centering Block	V1289 10500850	V1289 10500850
2" Simulated Thick Sill	---	W8098
Extended / Thick Subsill	---	W8596
NOTE: All replacement wood parts for operator and stationary units are supplied with connecting barb (where applicable).		

\* Effective June 5, 2006, W8723 will be used for stationary sill covers.



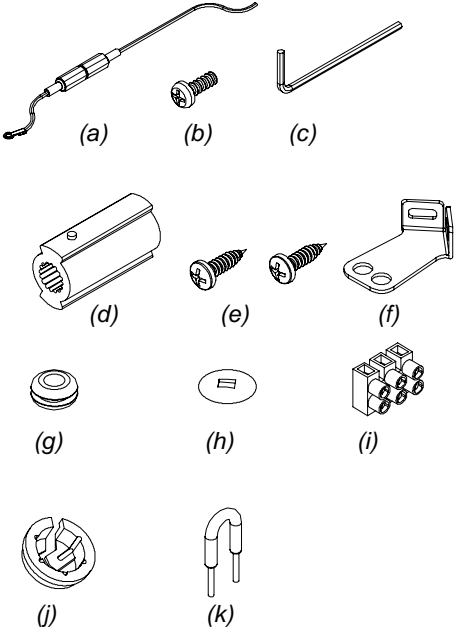
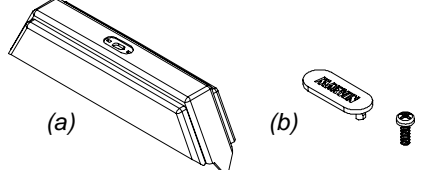
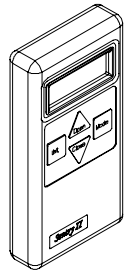
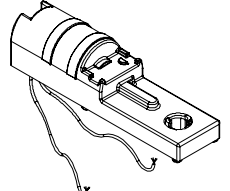
### TO ORDER REPLACEMENT WOOD PARTS

When ordering replacement wood parts specify:

1. profile number, or part number;
2. call number or rough opening;
3. type of operation:
  - a. dual arm
  - b. egress
  - c. dyad (CN under 20)
  - d. single arm with removable cover (round top/polygon);
4. left hand or right hand operation as determined from the location of the hinge on the exterior of the unit;
5. length;
6. finish.

**POWERDRIVE CONSISTS OF THE FOLLOWING COMPONENTS:**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Sentry II Operator Kit, Complete</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Operator Motor (a)</li> <li>1 - Control Box (b)</li> <li>1 - Cover Plate (c)</li> <li>1 - Cover Plate Screws (d)</li> <li>1 - Rain Sensor(e)</li> <li>1 - Decorative Cover (f)</li> <li>1 - Decorative Button (g)</li> <li>1 - Hardware                             <ul style="list-style-type: none"> <li>1 - Screen Interlock (h)</li> <li>2 - Screen Interlock Mounting Screws (i)</li> <li>1 - Hex Wrench (j)</li> <li>1 - Spline Adaptor (k)</li> <li>2 - #8 x 5/8 Pan head Bracket Screws (l)</li> <li>1 - Bracket (m)</li> <li>1 - Isolation Grommet (n)</li> <li>1 - Push on Fastener (o)</li> <li>1 - Connector (p)</li> <li>1 - Strain Relief (q)</li> <li>1 - Wire Piece (r)</li> </ul> </li> </ul>	<p>TP                      BZ                      WH</p>	<p>05570536                      05570538                      05570537</p>

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Hardware Package</b> For Sentry II Operator</p> <p><i>Includes:</i></p> <p>1 - Hardware</p> <p>1 - Screen Interlock (a)</p> <p>2 - Screen Interlock Mounting Screws (b)</p> <p>1 - Hex Wrench (c)</p> <p>1 - Spline Adaptor (d)</p> <p>2 - #8 x 5/8 Pan head Bracket Screws (e)</p> <p>1 - Bracket (f)</p> <p>1 - Isolation Grommet (g)</p> <p>1 - Push on Fastener (h)</p> <p>1 - Connector (i)</p> <p>1 - Strain Relief (j)</p> <p>1 - Wire Piece (k)</p>		05570557
	<p><b>Decorative Cover Kit</b> For Sentry II Operator</p> <p><i>Includes:</i></p> <p>1 - Motor Cover (a)</p> <p>1 - Decorative Button w/screw(b)</p>	TP BZ WH	05570554 05570556 05570555
	<p><b>Remote Control</b> For Sentry II Operator</p>		05570541
	<p><b>Replacement Operator Motor</b></p>		05570543

## ORDERING REPLACEMENT OPERATOR OR STATIONARY SASH FOR CASEMASTER UNITS

Clad units using a sequential lock manufactured after January 31, 1994.

Clad units manufactured after March 30, 2003 use a one-piece clad extrusion.

Replacements will be current sash.

Wood units using a sequential lock manufactured after February 7, 1994.

When ordering replacement operating or stationary sash specify:

1. size (call number or OM of sash);
2. operation;
3. number of sash lock keepers (if operating sash);
4. glazing;
5. finish.

## ORDERING REPLACEMENT PICTURE SASH FOR CASEMASTER UNITS

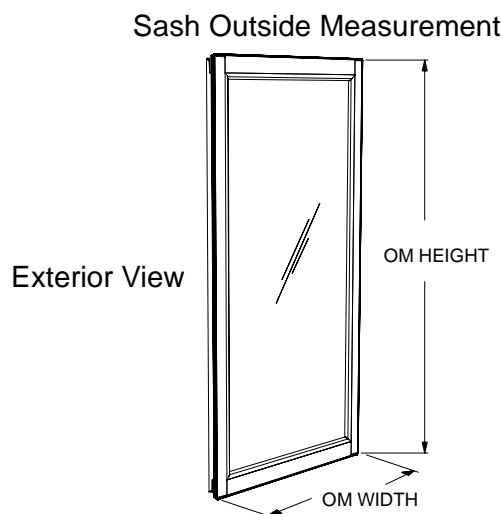
Clad units manufactured after August 20, 1987.

Wood units manufactured after February 7, 1994.

When ordering replacement picture sash specify:

1. size (call number or OM of sash);
2. glazing: 3/4" IG or 1" IG;
3. finish.

NOTE: Clad 1" Picture sash manufactured after March 30, 2003 had a change in Daylight Opening.



## ORDERING REPLACEMENT WEATHERSTRIP FOR CASEMASTER UNITS

When ordering replacement weatherstrip specify:

1. quantity;
2. color;
3. part number;
4. description.

## CASEMASTER WEATHERSTRIP

ILLUSTRATION <i>NOT TO SCALE</i>	DESCRIPTION	LENGTH	PART NUMBER
	<b>Flex-Leg Weatherstrip, Sash</b> V195 Color: Beige	150" (3810)	15708399
	<b>Foam Weatherstrip, Frame</b> V138 Color: Beige	150" (3810)	15910299
	<b>Connecting Barb</b> V803  NOTE: Color may vary depending on current stock.	Specify Length	15812999

## ORDERING REPLACEMENT SCREENS FOR CASEMASTER

Screens are available with aluminum or wood surround and charcoal colored fiberglass 18 x 16 screen mesh. Aluminum mesh is available as an option in black, charcoal, bright aluminum, or bright bronze. Determine the outside measurement of the existing screen. Find the sizes that correspond to the width and height indicated on the following charts. Aluminum surrounds are available in satin taupe, bronze, white, brown and pebble gray.

When ordering replacement screen specify:

1. size; - If there is no existing screen from which to obtain the OM of the screen, determine the size of the screen by using measurement conversion charts below. The daylight opening is the measurement of the visible glass.
2. color;
3. mesh type (if other than standard)
4. year or fastener type (if other than current).

Note: Gold tone screen surround is no longer available.

<b>Casemaster Screen Sizes</b> <b>Manufactured after March 30, 2003</b> <b>Aluminum and Wood Screens</b>			
<b>Daylight Opening to OM of Screen</b>			
Daylight Width + 1 1/2" = OM Width of Screen Daylight Height + 2 1/16" = OM Height of Screen Note: Screens manufactured after 3/30/03 utilize bow springs and screen lifts. <u>Wood</u> screens manufactured after 9/20/04 utilize bow springs and finger pulls.			
WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 16	12"	CN 20	14 7/8"
CN 20	16"	CN 24	18 7/8"
CN 24	20"	CN 28	22 7/8"
CN 28	24"	CN 32	26 7/8"
CN 32	28"	CN 36	30 7/8"
CN 36	32"	CN 40	34 7/8"
		CN 48	42 7/8"
		CN 56	50 7/8"
		CN 60	54 7/8"
		CN 64	58 7/8"
		CN 72	66 7/8"

### Casemaster Screen Sizes

**Wood - manufactured after February 5, 1994**  
**Clad - manufactured after January 28, 1994**

#### Daylight Opening to OM of Screen

Daylight Width + 1 7/8" = OM Width of Screen  
 Daylight Height + 2 7/32" = OM Height of Screen

NOTE: Screens feature bayonet type mounting system.

WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 16	12 3/8"	CN 20	15 1/32"
CN 20	16 3/8"	CN 24	19 1/32"
CN 24	20 3/8"	CN 28	23 1/32"
CN 28	24 3/8"	CN 32	27 1/32"
CN 32	28 3/8"	CN 36	31 1/32"
CN 36	32 3/8"	CN 40	35 1/32"
		CN 48	43 1/32"
		CN 56	51 1/32"
		CN 60	55 1/32"
		CN 64	59 1/32"
		CN 72	67 1/32"

### Clad Casemaster Screen Sizes

**Manufactured from April 5, 1993 to Jan. 28, 1994**

#### Daylight Opening to OM of Screen

Daylight Width + 2 1/4" = OM Width of Screen  
 Daylight Height + 2 3/4" = OM Height of Screen

NOTE: Screens feature clear finger pull/leaf spring mounting system.

WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 16	12 3/4"	CN 24	19 9/16"
CN 20	16 3/4"	CN 32	27 9/16"
CN 24	20 3/4"	CN 36	31 9/16"
CN 28	24 3/4"	CN 40	35 9/16"
CN 32	28 3/4"	CN 48	43 9/16"
CN 36	32 3/4"	CN 56	51 9/16"
		CN 60	55 9/16"
		CN 64	59 9/16"
		CN 72	67 9/16"

### Casemaster Screen Sizes

**Wood - manufactured 1982 to Feb. 5, 1994**  
**Clad - manufactured 1982 until April 5, 1993**

#### Daylight Opening to OM of Screen

Daylight Width + 2" = OM Width of Screen  
 Daylight Height + 2 1/2" = OM Height of Screen

Note: Screens feature black finger pull/leaf spring mounting system.

WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 16	12 1/2"	CN 24	19 5/16"
CN 20	16 1/2"	CN 32	27 5/16"
CN 24	20 1/2"	CN 36	31 5/16"
CN 28	24 1/2"	CN 40	35 5/16"
CN 32	28 1/2"	CN 48	43 5/16"
CN 36	32 1/2"	CN 56	51 5/16"
		CN 60	55 5/16"
		CN 64	59 5/16"
		CN 72	67 5/16"

### Casemaster Screen Sizes

**Manufactured 1968 to 1982**

#### Daylight Opening to OM of Screen

Daylight Width + 1 15/16" = OM Width of Screen  
 Daylight Height + 2 5/8" = OM Height of Screen

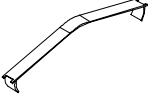


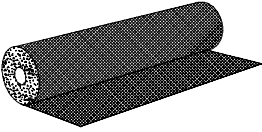

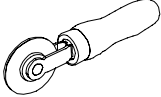
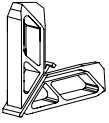
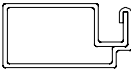
Note: Screens feature black finger pull/leaf spring mounting system.

WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 16	12 7/16"	CN 24	19 7/16"
CN 20	16 7/16"	CN 32	27 7/16"
CN 24	20 7/16"	CN 40	35 7/16"
CN 28	24 7/16"	CN 48	43 7/16"
CN 32	28 7/16"	CN 56	51 7/16"
		CN 64	59 7/16"
		CN 72	67 7/16"

## CASEMASTER SCREEN PARTS

The following parts are used on Casemaster screens. When ordering replacement parts specify:

1. part number;
2. quantity.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Leaf Spring</b> For Aluminum Screens		11868835
	<b>Bow Spring</b> For Wood Screens		11868020
	<b>Screen Lift for Aluminum Screen</b> Package of 2	TP SW BZ	11873306 11873300 11873301
	<b>Screen Cloth, 18x16 Fiberglass Mesh</b>  36" x 600' 48" x 300' 72" x 300'	Charcoal	11253600 11254800 11257200
	<b>Spline, Screen</b> V201 Specify lineal feet needed	Black	15221488
	<b>Spline Roller</b> Tool for rescreening		02590541
	<b>Corner Key, Screen</b> MISC 051	03 BZ SW TP/PB BN CL EG	11867865 11867875 11867863 11867864 11867866 11867868
	<b>Screen Surround, Aluminum Profile</b> A135 Available in 150" (3810) length	TP 03 BZ SW PB BN EG	15231350 15231299 18801120 15231150 15231499 15230199

**ORDERING ENERGY PANELS FOR CASEMASTER**

If you are replacing an existing energy panel, determine the outside measurement of the existing energy panel. Find the sizes that correspond to the width and height indicated on the following charts. Energy panels are available for Casemaster with bronze, stone white, brown, pebble gray or arctic white aluminum surrounds.

When ordering energy panels specify:

1. size; If there is no existing EP from which to obtain the OM of the panel, determine the size of the EP by using measurement conversion charts below. The daylight opening is the measurement of the visible glass.
2. color of surround;
3. glass type.

<b>Casemaster</b>			
<b>Manufactured between 1968 - Present</b>			
<b>Daylight Opening to OM of EP</b>			
Daylight Width + 1 1/8" = OM Width of EP		Daylight Height + 1 1/8" = OM Height of EP	
WIDTH		HEIGHT	
SIZE	OM WIDTH	SIZE	OM HEIGHT
CN 16	11 5/8"	CN 24	17 15/16"
CN 20	15 5/8"	CN 32	25 15/16"
CN 24	19 5/8"	CN 36	29 15/16"
CN 28	23 5/8"	CN 40	33 15/16"
CN 32	27 5/8"	CN 48	41 15/16"
CN 36	31 5/8"	CN 56	49 15/16"
CN 40	35 5/8"	CN 60	53 15/16"
CN 48	43 5/8"	CN 64	57 15/16"
CN 56	51 5/8"	CN 72	65 15/16"
CN 60	55 5/8"		
CN 64	59 5/8"		
CN 72	67 5/8"		

**CASEMASTER ENERGY PANEL PARTS**

Energy panels are attached with turn buttons. Turn button styles may vary depending on current stock. You will receive the most current style in the color of your choice. (Obsolete black turn buttons will be replaced by brown.)

When ordering energy panel parts specify:

1. quantity;
2. description;
3. color;
4. part number.

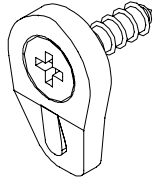
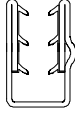
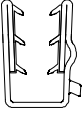
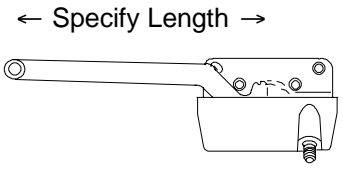
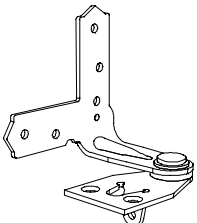
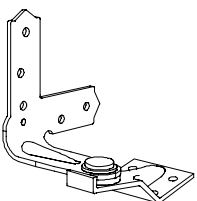

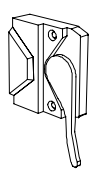
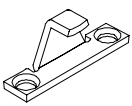
ILLUSTRATION <i>NOT TO SCALE</i>	DESCRIPTION	PART NUMBER		
	<b>Turn Buttons with SS Screws</b> #8x3/4"	<u>Each</u>	<u>Pkg of 8</u>	<u>Pkg of 100</u>
	AR	11869310	N/A	11869316
	BZ	11869311	11869451	11869317
	PB	11869312	11869452	11869318
	BN	11869313	11869453	11869319
	SW	11869314	11869454	11869320
	CL	11869315	11869455	11869321

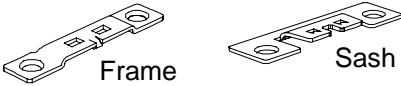

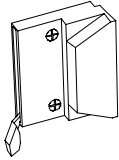
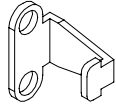

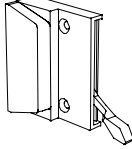

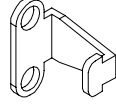
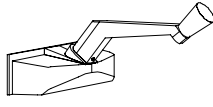
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Energy Panel Surround, Aluminum Profile</b> A155 Stile and bottom rail For single strength glass - 3/32" (2.5) Available in 150" (3810) length	SW 15246299 BZ 15243399 PB 15243299 BN 15243199	
	<b>Energy Panel Surround, Aluminum Profile</b> A157 Stile and bottom rail For double strength glass - 1/8" (3.0) Available in 150" (3810) length	SW 15246199 BZ 15244299 PB 15244199 BN 15244099	
	<b>Energy Panel Surround, Aluminum Profile</b> With seal A159 Top rail For single strength glass - 3/32" (2.5) Available in 150" (3810) length	SW 15246499 BZ 15245299 PB 15245199 BN 15245099	
	<b>Energy Panel Surround, Aluminum Profile</b> With seal A162 Top rail For double strength glass - 1/8" (3.0) Available in 150" (3810) length	SW 15245999 BZ 15245799 PB 15245699 BN 15245599	

When ordering obsolete Casemaster parts specify:

1. type of unit;
2. part number;
3. description;
4. year of manufacture (if possible).

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
 <p>← Specify Length →</p> <p>6 1/2" length - under CN 20                      9 1/2" length - CN 20                      13 1/2" length - CN 24 and over</p>	<p><b>Single Arm Roto-gear, Special Offset Arm</b>                      Casements and Casemasters between 1976 - 1982, butt hinge and /or radius or polygon shapes until 1990.</p> <p>Available in 3 arm lengths. Customer must specify arm length measured from center of roto-gear to end of the arm.</p> <p>Available in bronze only</p> <p><i>Includes:</i>                      1 - Single arm roto-gear                      4 - #10x1" Phillips flat head wood screws (11801011)</p> <p>NOTE: This roto-gear may also be used for replacement on units manufactured between 1968 - 1976.</p>	<p>6 1/2"                      Length                      LH                      RH</p> <p>9 1/2"                      Length                      LH                      RH</p> <p>13 1/2"                      Length                      LH                      RH</p>	<p>Check availability</p> <p>05590211                      05590221</p> <p>05590311                      05590321</p>
	<p><b>Outboard Casement Hinge, Top Riveted</b>                      Casements before 1979                      Bolted hinges no longer available</p> <p><i>Includes:</i>                      1 - Top casement hinge                      2 - #10x1" Phillips flat head screws                      5 - #10x11/16" Phillips pan head screws                      1 - #10x1" Phillips pan head screw</p>	<p>LH                      RH</p>	<p>Contact Marvin</p>
	<p><b>Outboard Casement Hinge, Bottom Riveted</b>                      Casements before 1979                      Bolted hinges no longer available</p> <p><i>Includes:</i>                      1 - Bottom casement hinge                      9 - #10x11/16" Phillips pan head screws</p>	<p>LH                      RH</p>	<p>Contact Marvin</p>
	<p><b>Casement Hinge, Center Riveted</b>                      Casements before 1979</p> <p><i>Includes:</i>                      1 - Center casement hinge                      6 - #10x11/16" Phillips pan head screws</p>	<p>LH                      RH</p>	<p>No longer available</p>
	<p><b>Lock, Sash</b>                      Used between 1979-1982.                      Available in Bronze only</p> <p><i>Includes:</i>                      1 - Lock                      2 - #8x1" Phillips flat head wood screws (11800811)</p>	<p>LH                      RH</p>	<p>05590511                      05590521</p>
	<p><b>Keeper, Sash Lock</b>                      Used between 1979-1982</p> <p><i>Includes:</i>                      1 - Keeper                      2 - #7x7/8" Phillips flat head wood screws</p>		<p>No longer available</p>

NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Stationary Sash Clip, Casement</b>                      Used before 1979                      Includes:                      1 - Frame clip or                      1 - Sash clip                      #6x1/2" Phillips flat head wood screws</p>	Mill Finish	No longer available
	<p><b>Stationary Sash Clip, Casemaster</b>                      Used before 1985                      Includes:                      1 - Frame clip or                      1 - Sash clip                      #6x1/2" Phillips flat head wood screws</p>	Mill Finish	No longer available
	<p><b>Lock, Sash, Low Profile</b>                      Casemaster between 1983 and early 1994                      Includes:                      1 - Lock                      2 - #8x1" Phillips flat head wood screws                      BZ - 11800811                      WH - 10840018</p>	LH BZ RH BZ LH WH RH WH LH BS RH BS	10816042 10816043 10840039 10840040 05600038 05600041
	<p><b>Keeper, Sash Lock</b>                      Used between 1983 and early 1994                      Includes:                      1 - Keeper                      2 - #7HD - #8x1" Phillips flat head wood screws (11800773)</p>		10820622
	<p><b>Keeper, Sash Lock, Stainless Steel</b>                      Used between 1983 and early 1994                      Includes:                      1 - SS keeper                      2 - SS #8x1" Phillips flat head wood screws (11800805)</p>	SS	02062626
	<p><b>Lock, Tandem</b>                      Casemaster between 1983 and early 1994                      Includes:                      1 - Lock                      2 - #8x1" Phillips flat head wood screws                      BZ - 11800811                      WH - 10840018</p>	BZ WH	05590611 00840026
	<p><b>Tie Bar for Tandem Lock</b></p>	Mill Finish	05590631
	<p><b>Keeper, Tandem Sash Lock</b>                      Used between 1983 and early 1994                      Includes:                      1 - Keeper                      2 - #7x7/8" Phillips flat head wood screws</p>		No longer available
	<p><b>Straight Handle and Cover Package</b>                      Used between 1982 and early 1994                      Includes:                      1 - Handle                      1 - Cover</p>	BZ WH BS	10898231 10840025 No longer available

NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

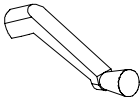
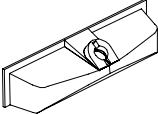
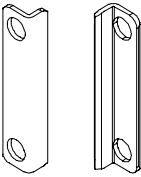
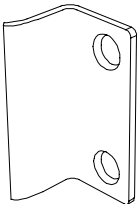
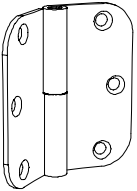
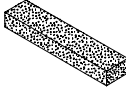
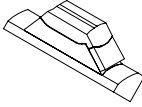

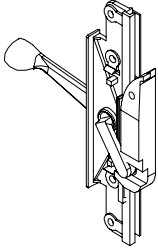
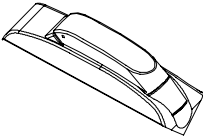
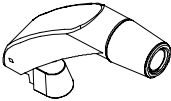
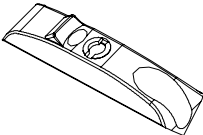
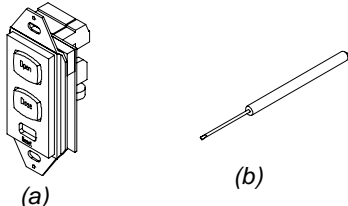
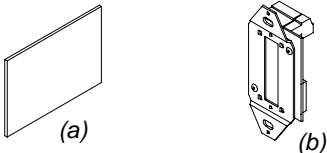
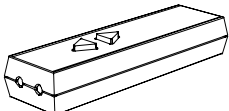
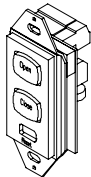
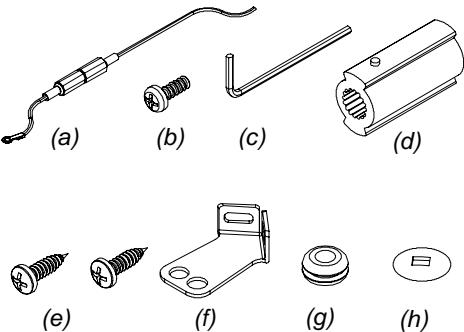
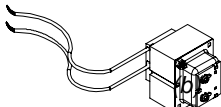
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Handle, Straight</b>                      Used between 1982 and early 1994</p>	BZ WH BS	10898230 10840007 No longer available
	<p><b>Handle Cover, Straight</b>                      Used between 1982 and early 1994</p>	BZ WH BS	10810341 10840008 No longer available
	<p><b>Snubber, Concealed</b>                      Wood Casemaster between 1992 and February 1994                      Clad Casemaster between 1992 and April 1993                      2 per package  <i>Includes:</i>                      2 - Snubbers 10899104                      2 - #7x5/8" Phillips flat head screws (11800743)                      2 - #7x7/8" Phillips flat head screws (11800798)</p>		11873198
	<p><b>Snubber, Concealed, Stainless Steel</b>                      Wood Casemaster between 1992 and February 1994                      Clad Casemaster between 1992 and April 1993                      2 per package  <i>Includes:</i>                      2 - SS snubbers 10899106                      2 - SS #7x5/8" Phillips flat head screws (11800736)                      2 - SS #7x7/8" Phillips flat head screws (11800777)</p>	SS	11873199
	<p><b>Sash Snubber, Side Jamb</b>                      Wood Casemaster between 1975 and 1992                      Clad Casemaster between 1975 and 1992  <i>Includes:</i>                      1 - Snubber                      2 - #7x7/8" screws</p>		N/A
	<p><b>Sash Snubber, Side Jamb, Stainless Steel</b>                      Wood Casemaster between 1975 and 1992                      Clad Casemaster between 1975 and 1992  <i>Includes:</i>                      1 - SS snubber                      2 - SS #7x7/8" screws (11800777)</p>	SS	N/A
 <p>NOTE: Handling on butt hinges (only) is viewed from the interior.</p>	<p><b>Butt Hinge, Stainless Steel</b>                      NOTE: Used on Round Top operating units manufactured before 1/4/99.  <i>Includes:</i>                      1 - SS hinge                      3 - SS #7x7/8" Phillips head wood screws (11800777)                      3 - 8-32x5/8" Phillips head machine screws (05080233) and T-nuts (02080234)</p>	SS  LH RH	10929102 10929103

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Foam Pad, Butt Hinge</b> MISC 020 Used with above hinges.		No longer available
	<b>Handle, Flip</b>	BZ WH BS AB BC PC	10814853 10814852 10814854 10814857 10814856 10814855
	<b>Handle, Circle with set screw</b>	BZ WH BS	05570421 10840022 05600006
	<b>Sequential Lock, Primary</b> Primary cam included <i>Includes:</i> 1 - Primary sequential lock with primary cam 3 - #8x1" Phillips pan head wood screws (11808100)	LH PC RH PC	10816054 10816055
	<b>Folding Handle and Cover Package</b> <i>Includes:</i> 1 - Handle with set screw 1 - Cover	PC	10898330
	<b>Folding Handle</b> <i>Includes:</i> 1 - Handle with set screw	PC	10898332
	<b>Folding Handle Cover</b> <i>Includes:</i> 1 - Cover	PC	10898331

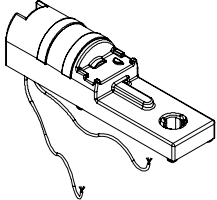
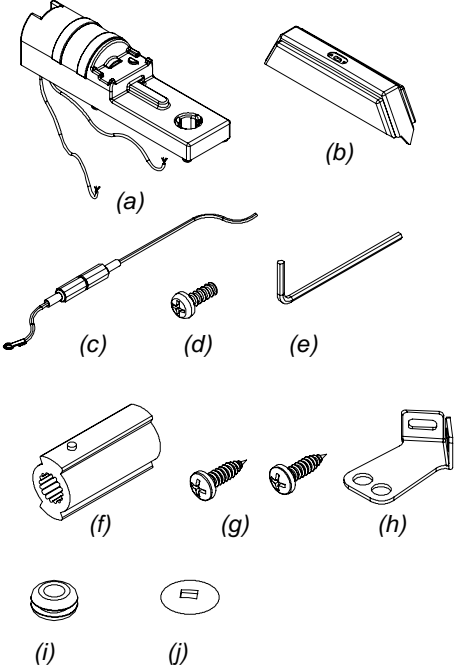
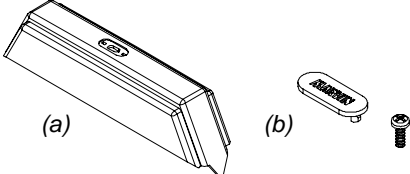
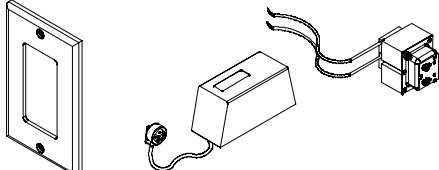
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

**POWERDRIVE CONSISTS OF THE FOLLOWING COMPONENTS:**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Sentry 2000 Operator Kit, Complete</b></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Operator Motor (a)</li> <li>1 - Wall Switch (b)</li> <li>1 - Decorative Switch Plate (c)</li> <li>1 - Rain Sensor (d)</li> <li>1 - Transformer (e)</li> <li>1 - Decorative Cover (f)</li> <li>1 - Decorative Button (g)</li> <li>1 - Transformer Mounting Plate (h)</li> <li>2 - Hex Washer Head Mounting Screws (i)</li> <li>1 - Hardware                             <ul style="list-style-type: none"> <li>1 - Screen Interlock (j)</li> <li>2 - Screen Interlock Mounting Screws (k)</li> </ul> </li> <li>1 - Hex Wrench (l)</li> <li>1 - Spline Adaptor (m)</li> <li>2 - #8 x 5/8 Pan head Bracket Screws (n)</li> <li>1 - Bracket (o)</li> <li>1 - Isolation Grommet (p)</li> <li>1 - Push on Fastener (q)</li> </ul>	<p>TP</p> <p>BZ</p> <p>WH</p>	<p>No longer available</p> <p>No longer available</p> <p>No longer available</p>

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Sentry 2000 Module</b> Includes: 1 - Wall Switch (a) 1 - Tool (b)</p>		05570504
	<p><b>Infrared Receiver with Rain Sensor</b> Includes: 1 - Infrared Plate (a) 1 - Infrared Receiver (b)</p>		05570505
	<p><b>Hand Held Remote</b></p>		05570506
	<p><b>Remote Switch (RS) Module</b> Includes: 1 - Wall Switch (a)</p>		05570507
	<p><b>Hardware Pack, Sentry 2000</b> Includes: 1 - Screen Interlock (a) 2 - Screen Interlock Mounting Screws (b) 1 - Hex Wrench (c) 1 - Spline Adaptor (d) 2 - #8 x 5/8 Pan head Bracket Screws (e) 1 - Bracket (f) 1 - Isolation Grommet (g) 1 - Push on Fastener (h)</p>		05570510
	<p><b>Transformer, Sentry 2000</b></p>		05570519

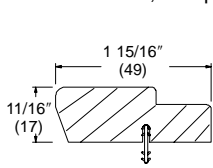
NOTE: Decorative Switch Plates and Rain Sensors are no longer available.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Replacement Operator Motor</b> For Sentry 2000 or Sentry II</p>		05570543
	<p><b>Motor Drive</b> <i>Includes:</i>                      1 - Operator Motor (a)                      1 - Decorative Cover (b)                      1 - Hardware                      1 - Screen Interlock (c)                      2 - Screen Interlock Mounting Screws (d)                      1 - Hex Wrench (e)                      1 - Spline Adaptor (f)                      2 - #8 x 5/8 Pan head Bracket Screws (g)                      1 - Bracket (h)                      1 - Isolation Grommet (i)                      1 - Push on Fastener (j)</p>	<p>TP  BZ  WH</p>	<p>No longer available  No longer available  No longer available</p>
	<p><b>Decorative Cover Kit</b> For Sentry II and Sentry 2000 Operator <i>Includes:</i>                      1 - Motor Cover (a)                      1 - Decorative Button w/screw(b)</p>	<p>TP BZ WH</p>	<p>05570554 05570556 05570555</p>
	<p><b>Wintrol Model 1000 Kit</b> Used from 1989-1993 Available as a complete kit only.</p>	<p>WH BZ</p>	<p>05570452 05570453</p>

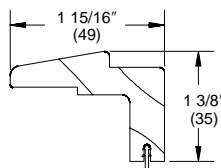
**OBSOLETE REPLACEMENT WOOD AND VINYL PARTS/INTERIOR**

	Clad Pre-April 15, 1993 (Black Screen tabs)	Clad April 15, 1993 January 28, 1994 (Clear Screen Tab)	Wood Pre-February 7, 1994	Stationary Units Wood and Clad from 1994 to 3-31-03	Operating Units Clad 1-31-94 Wood 2-7-94 to 3-31-03 screens with bayonets
Hardware Cover Operator	W7022	W7020 W7022	W7020 W7022		W7018
Sill Cover Stationary	W7026	W7026	W7026	W7018	
Screen Channel Operator/ Side Stop	W7028	W7028	W7028		V905
Jamb Stop Stationary	W7034	W7034	W7034	W7015*	
Head Jamb Stop Stationary	W7034	W7034	W7034	W7001*	
Head Jamb Stop Operator	W7032	W7032	W7032		W7016

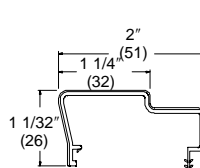
\* Same as current, See page 2.19.



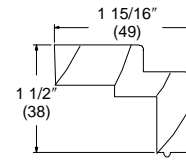
W7016 - Head Jamb Stop Operator



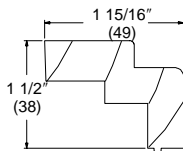
W7018 - Sill Cover Operator



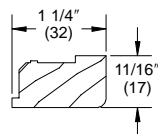
V905 - Side Stop



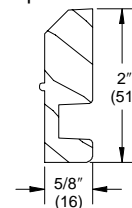
W7020 - Hardware Cover Operator (CN under 20)



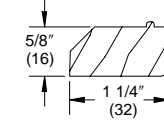
W7022 - Hardware Cover Operator (CN 20 and over)



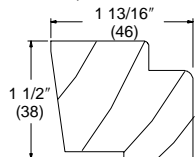
W7034 - Jamb Stop Stationary and Picture Unit Head Jamb Stop Stationary and Picture Unit



W7028 - Screen Channel Operator



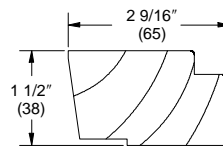
W7032 - Head Jamb Stop Operator



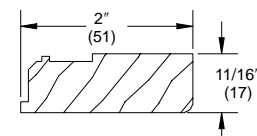
W7026 - Sill Cover Stationary and Picture Unit

**REPLACEMENT WOOD PARTS/INTERIOR - OBSOLETE PICTURE UNITS**

**NOTE:** These parts must be utilized when 2 1/2" picture unit sash is being replaced with current 1 3/4" - 1" glazed sash.



W7045 - Stationary Sill Cover



W7046 - Stationary Inside Stop

**TO ORDER REPLACEMENT WOOD PARTS**

When ordering replacement wood parts specify:

1. profile number;
2. call number or rough opening;
3. 6/4 or 5/4 frame (clad units only);  
NOTE: On April 15, 1993 Clad Casemaster frame parts changed from 6/4 to 5/4 material resulting in a 1/4" increase in length.
4. type of operation:
  - a. dual arm
  - b. egress
  - c. dyad (CN under 20)
  - d. single arm with cover (round top/polygon);
5. left hand or right hand operation as determined from the location of the hinge on the exterior of the unit;
6. length;
7. finish.

**ORDERING OBSOLETE REPLACEMENT OPERATOR OR STATIONARY SASH FOR CASEMASTER UNITS**

Clad units using a cam lock manufactured before January 31, 1994.  
Wood units using a cam lock manufactured before February 7, 1994.

When ordering replacement operating or stationary sash specify:

1. size (call number or OM of sash);
2. operation;
3. glazing;
4. finish;
5. prep for cam lock.

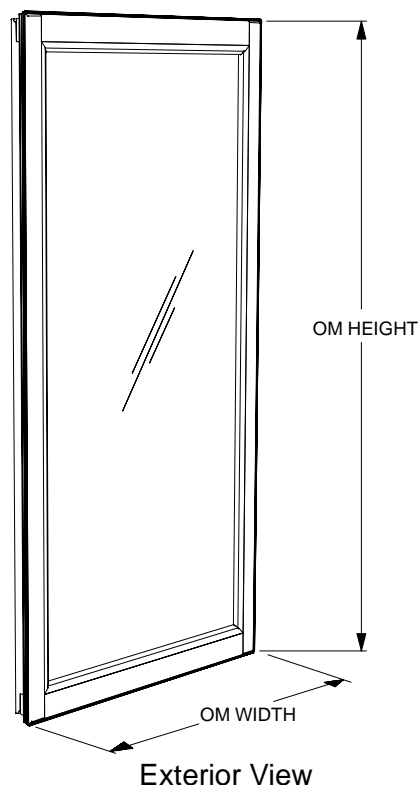
**ORDERING REPLACEMENT SASH FOR OBSOLETE CASEMASTER PICTURE UNITS**

Clad units manufactured before August 20, 1987.  
Wood units manufactured before February 7, 1994.

When ordering replacement picture sash specify:

1. size (call number or OM of sash);
2. glazing: 3/4" IG or 1" IG;
3. finish.

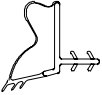



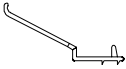


NOTE: 2 1/2" Picture Sash is no longer available and has been replaced with 1" IG Picture Sash plus a new set of interior stops (W7045 and W7046) must be ordered.

**SASH OUTSIDE MEASUREMENT**

**OBSOLETE CASEMASTER WEATHERSTRIP**

When ordering replacement weatherstrip specify:

1. quantity;
2. color;
3. part number;
4. description.

<b>ILLUSTRATION</b> <i>NOT TO SCALE</i>	<b>DESCRIPTION</b>	<b>LENGTH</b>	<b>PART NUMBER</b>
	<b>Foam Weatherstrip, Frame</b> V124 Color: Beige From '93/'94 - 4/21/97		Replace with V138
	<b>Offset Bulb Weatherstrip, Jamb</b> V194 Wood from 1979 - February 1994 Clad from 1979 - April 1993 Color: Beige	84" (2134)	15900007
	<b>Offset Bulb Weatherstrip, Head Jamb and Sill</b> V192 Color: Beige Used before April 1993	84" (2134)	15900058
	<b>Flex-Leg Weatherstrip, Sash</b> V191 Color: Beige	150" (3810)	Replace with V195
	<b>Leaf Weatherstrip, Sash</b> V673 Clad mid-1987 through 1992 (top rail only) Color: Beige Replacement for V101 and V132. (V132 was used on roll form sash before 1987)	84" (2134) 144" (3658)	15899984 15899999
	<b>Leaf Weatherstrip, Sash</b> V101 Wood before October 1992 Clad before October 1991 Color: White or Black		No longer available Replaced with V673
	<b>Bulb Weatherstrip</b> V113 Used before 1979 on casement frames Color: Beige	150" (3810)	15619698

**ORDERING REPLACEMENT SCREENS FOR CASEMENT**

Screens are available with aluminum surround and charcoal colored fiberglass 18 x 16 screen mesh. Aluminum mesh is available as an option in black, charcoal, bright aluminum, or bright bronze. Determine the outside measurement of the existing screen. Find the sizes that correspond to the width and height indicated on the following charts. Surrounds are available in bronze, white, brown and pebble gray.

When ordering replacement screen specify:



1. size; - If there is no existing screen from which to obtain the OM of the screen, determine the size of the screen by using measurement conversion charts below. The daylight opening is the measurement of the visible glass.
2. color;
3. mesh type (if other than standard).

Note: Gold tone screen surround is no longer available.


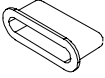


<b>Casement Screen Sizes Manufactured between April of 1977 and 1979</b>			
<b>Daylight Opening to OM of Screen</b>			
Daylight Width + 2 1/16" = OM Width of Screen Daylight Height + 2 5/8" = OM Height of Screen			
<b>OM Width</b>	<b>18 9/16"</b>	<b>22 9/16"</b>	<b>31 1/16"</b>
<b>OM Height</b>	<u><b>SIZE</b></u>	<u><b>SIZE</b></u>	<u><b>SIZE</b></u>
27 7/16"	101	201	301
35 7/16"	111	211	311
43 7/16"	121	221	321
47 7/16"	1A1	2A1	3A1
51 7/16"	131	231	331
59 7/16"	141	241	341
67 7/16"	151	251	351

<b>Casement Screen Sizes Manufactured before April of 1977</b>			
<b>Daylight Opening to OM of Screen</b>			
Daylight Width + 2 1/16" = OM Width of Screen Daylight Height + 2 7/16" = OM Height of Screen			
<b>OM Width</b>	<b>18 9/16"</b>	<b>22 9/16"</b>	<b>31 1/16"</b>
<b>OM Height</b>	<u><b>SIZE</b></u>	<u><b>SIZE</b></u>	<u><b>SIZE</b></u>
27 1/4"	101	201	301
35 1/4"	111	211	311
43 1/4"	121	221	321
47 1/4"	1A1	2A1	3A1
51 1/4"	131	231	331
59 1/4"	141	241	341
67 1/4"	151	251	351

**OBSOLETE CASEMASTER SCREEN PARTS**

<b>ILLUSTRATION NOT TO SCALE</b>	<b>DESCRIPTION</b>	<b>OPER./COL- OR</b>	<b>PART NO.</b>
	<b>Leaf Spring</b> M0104 Used between 1975-1994		11868835
	<b>Finger Pull, Clear</b> V254 Used between 1993-1994 Replaces black finger pull		11860350

**OBSOLETE CASEMASTER SCREEN PARTS**

ILLUSTRATION <i>NOT TO SCALE</i>	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Bayonet Latch</b></p>	<p>LH Dark BZ RH Dark BZ</p> <p>LH 03 BZ RH 03 BZ</p> <p>LH WH RH WH</p> <p>PB</p>	<p>11040385 11040386</p> <p>11040387 11040388</p> <p>11040380 11040381</p> <p>Contact Marvin</p>
	<p><b>Receptacle M556</b></p>	<p>Beige</p>	<p>11869624</p>
	<p><b>Screen Lift for Aluminum Screen</b> Package of 2</p>	<p>PC BS AB SC SN ORBZ</p>	<p>11873305 11873302 11873303 11873304 11873308 11873307</p>
	<p><b>Screen Lift for Wood Screens</b> Package of 2</p>	<p>PC TP SW BZ BS AB SC SN ORBZ</p>	<p>11873315 11873316 11873310 11873311 11873312 11873313 11873314 11873318 11873317</p>

## ORDERING ENERGY PANELS FOR CASEMENT

If you are replacing an existing energy panel, determine the outside measurement of the existing energy panel. Find the sizes that correspond to the width and height indicated on the following charts. Energy panels are available for Casement with bronze, white, brown or pebble gray aluminum surrounds.

When ordering energy panels specify:

1. size; If there is no existing EP from which to obtain the OM of the panel, determine the size of the EP by using measurement conversion charts below. The daylight opening is the measurement of the visible glass.
2. color of surround;
3. glass type.

<b>Casement EP</b>			
<b>Units manufactured between</b>			
<b>1957 - 1978</b>			
<b>Daylight Opening to OM of EP</b>			
Daylight Width + 1 1/8" = OM Width of EP			
Daylight Height + 1 1/8" = OM Height of EP			
<b>OM Width</b>	<b>17 5/8"</b>	<b>21 5/8"</b>	<b>30 1/8"</b>
<b>OM Height</b>	<b>SIZE</b>	<b>SIZE</b>	<b>SIZE</b>
25 15/16"	101	201	301
33 15/16"	111	211	311
41 15/16"	121	221	321
45 15/16"	1A1	2A1	3A1
49 15/16"	131	231	331
57 15/16"	141	241	341
65 15/16"	151	251	351

## CASEMENT ENERGY PANEL PARTS

Energy panels are attached with turn buttons. Turn button styles may vary depending on current stock. You will receive the most current style in the color of your choice. (Obsolete black turn buttons will be replaced by brown.)

When ordering specify:

1. quantity;
2. description;
3. color;
4. part number.

<b>ILLUSTRATION</b> <i>NOT TO SCALE</i>	<b>DESCRIPTION</b>	<b>PART NUMBER</b>			
	<b>Turn Buttons with SS Screws</b> #8x3/4"	<u>Each</u>	<u>Pkg of 8</u>	<u>Pkg of 100</u>	
		AR	11869310	N/A	11869316
		BZ	11869311	11869451	11869317
		PB	11869312	11869452	11869318
		BN	11869313	11869453	11869319
		SW	11869314	11869454	11869320
		CL	11869315	11869455	11869321

**ORDERING REPLACEMENT PARTS TO CHANGE OPERATION**

Clad units using a sequential lock manufactured after January 31, 1994.  
Wood units using a sequential lock manufactured after February 7, 1994.

When ordering parts necessary to change stationary, operator or egress:

1. determine size;
2. specify part number and quantity.

**STATIONARY TO OPERATOR**

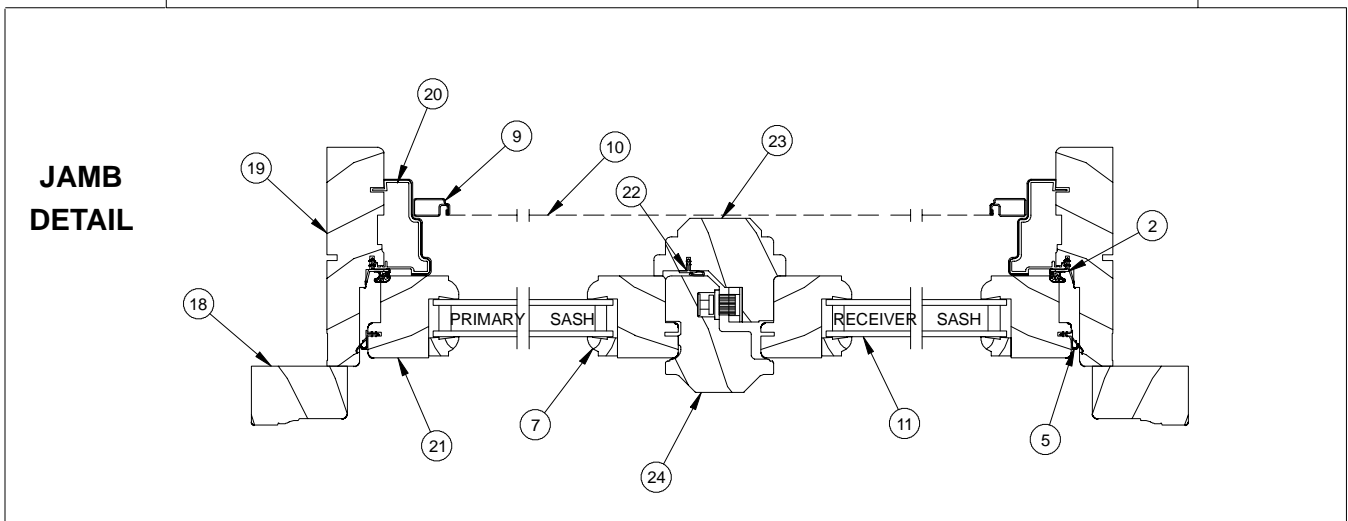
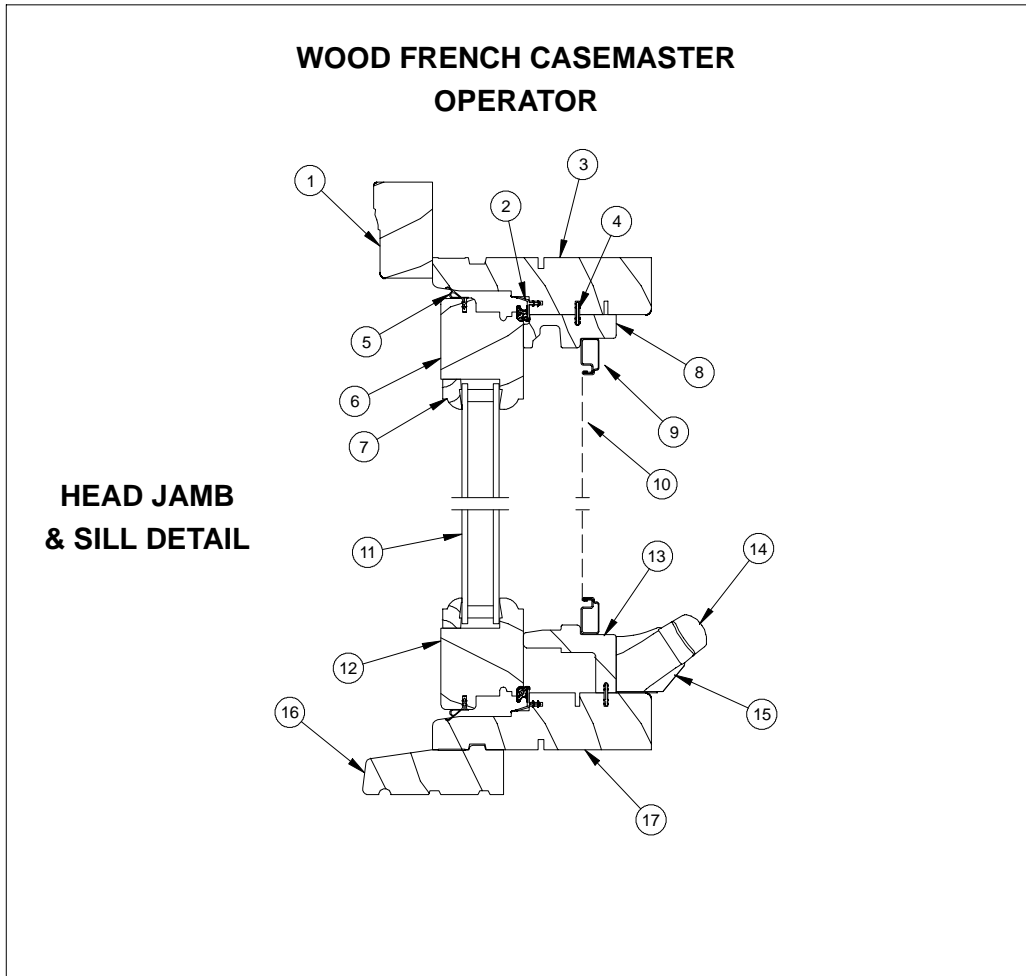
- 1 - Dual arm roto-gear or Dyad operator, complete (left or right operation) ..... see page 2.11
- 1 - Hinge pair, complete ..... see page 2.14
- 1 - Sequential lock, primary (left or right operation) ..... see page 2.16
- 1 - Sequential lock, secondary (non-handed, CN 32 height and over) ..... see page 2.16
- Keeper, sequential lock (non-handed) ..... see page 2.16
  - 1 - Keeper under CN 32 height
  - 2 - Keepers CN 32 height and over
- 1 - Tie bar (CN 32 height and over) ..... see page 2.16
- 1 - Snubber, concealed (2 per package) ..... see page 2.17
- 1 - W8461 Head jamb stop ..... see page 2.19
- 1 - W8459 Hardware cover (left hand or right hand) ..... see page 2.19
- 2 - V1162 Side stops (1 for hinge side, 1 for lock side) ..... see page 2.19
- W7009 Tie bar blocks ..... see page 2.16
  - 1 - Block on CN 48 height
  - 2 - Blocks over CN 48 height to under CN 72 height
  - 3 - Blocks CN 72 height and over
- 1 - Screen (optional)

**OPERATOR TO STATIONARY**

- Stationary brackets, head jamb and sill ..... see page 2.18
  - 4 - CN 36 width
- Stationary brackets, side jamb ..... see page 2.18
  - 4 - CN 24 height to CN 48 height
  - 6 - over CN 48 height
- 1 - W7018 Sill cover ..... see page 2.19
- 2 - W7015 Jamb stop ..... see page 2.19
- 1 - W7001 Head jamb stop ..... see page 2.19

**OPERATING CASEMASTER TO EGRESS**

- 1 - Egress dual arm roto-gear operator, complete (left hand or right hand) ..... see page 2.12
- 1 - Hinge pair, complete ..... see page 2.14
- 1 - W8459 Hardware cover (left hand or right hand, notched for egress) ..... see page 2.19

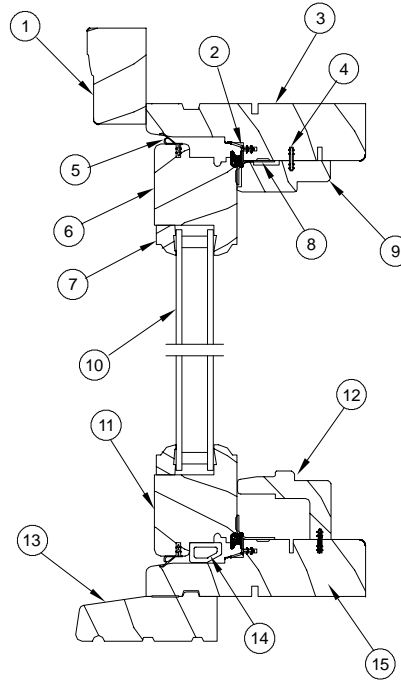


NOTE: Not to scale; specifications subject to change without notice.

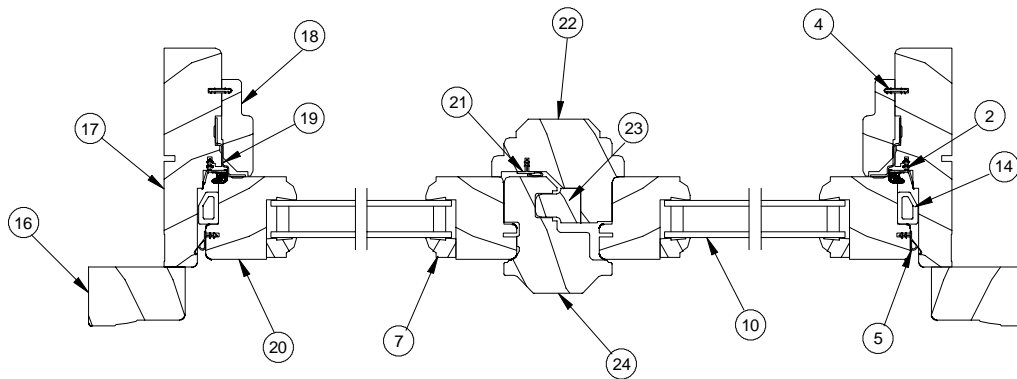
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|--|---------------------------|---|
| 1. Head Jamb Brick Mould Casing, W1047 | 9. Screen Frame           | 17. Sill  |
| 2. Frame Weather Strip, V138           | 10. Screen Mesh           | 18. Jamb Brick Mould Casing, W1047              |
| 3. Head Jamb                           | 11. Insulated Glass       | 19. Jamb  |
| 4. Connecting Barb, V803               | 12. Bottom Rail           | 20. Jamb Stop, V1162                            |
| 5. Sash Weather strip, V195            | 13. Hardware Cover, W8459 | 21. Stile                                       |
| 6. Top Rail                            | 14. Roto-Gear Handle      | 22. Secondary Sash Astragal Weather Strip, V192 |
| 7. Glazing Bead, W4009                 | 15. Roto-Gear Cover       | 23. Secondary Sash Astragal, W3139              |
| 8. Head Jamb Stop, W8461               | 16. Subsill, W2197        | 24. Primary Sash Astragal, W9011                |

**WOOD FRENCH CASEMASTER  
 STATIONARY**

**HEAD JAMB  
 & SILL DETAIL**



**JAMB  
 DETAIL**

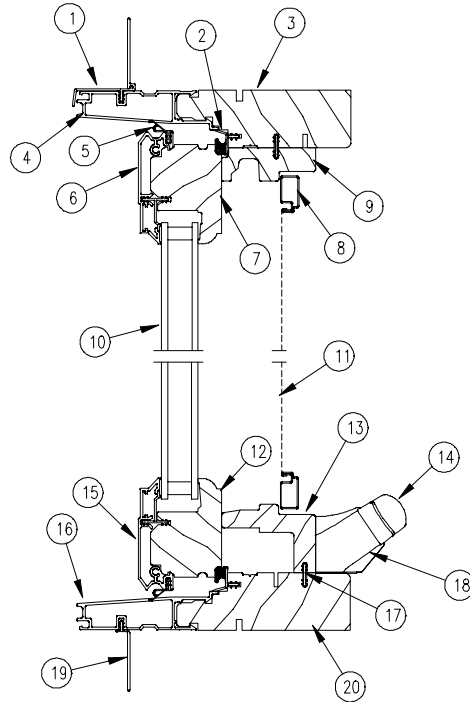


NOTE: Not to scale; specifications subject to change without notice.

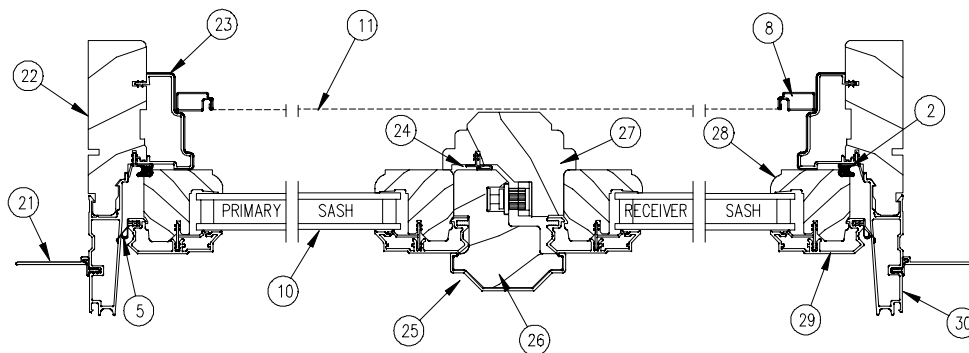
- |  |                                    |   |
|--|------------------------------------|---|
| 1. Head Jamb Brick Mould Casing, W1047 | 9. Head Jamb Stop, W7001           | 17. Jamb  |
| 2. Frame Weather strip, V138           | 10. Insulated Glass                | 18. Jamb Stop, W7015                            |
| 3. Head Jamb                           | 11. Bottom Rail                    | 19. Jamb Stationary Bracket                     |
| 4. Connecting Barb, V803               | 12. Hardware Cover                 | 20. Stile                                       |
| 5. Sash Weather strip, V195            | 13. Subsill, W2197                 | 21. Secondary Sash Astragal Weather strip, V192 |
| 6. Top Rail                            | 14. Setting Block                  | 22. Secondary Sash Astragal, W3139              |
| 7. Glazing Bead, W4009                 | 15. Sill                           | 23. Stationary Astragal Interlock, W9012        |
| 8. Head Jamb/Sill Stationary Bracket   | 16. Jamb Brick Mould Casing, W1047 | 24. Primary Sash Astragal, W9011                |

**CLAD FRENCH CASEMASTER  
 OPERATOR**

**HEAD JAMB  
 & SILL DETAIL**



**JAMB  
 DETAIL**

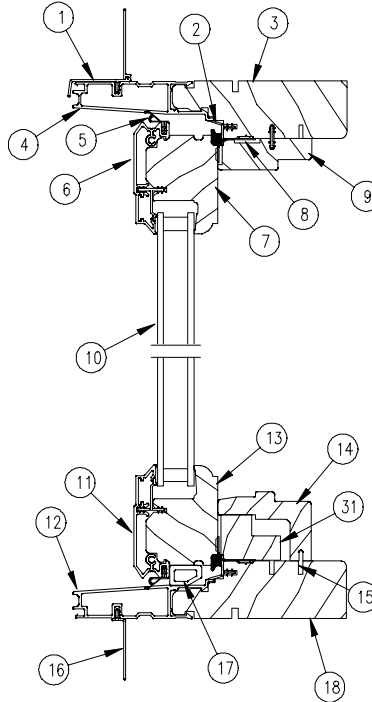


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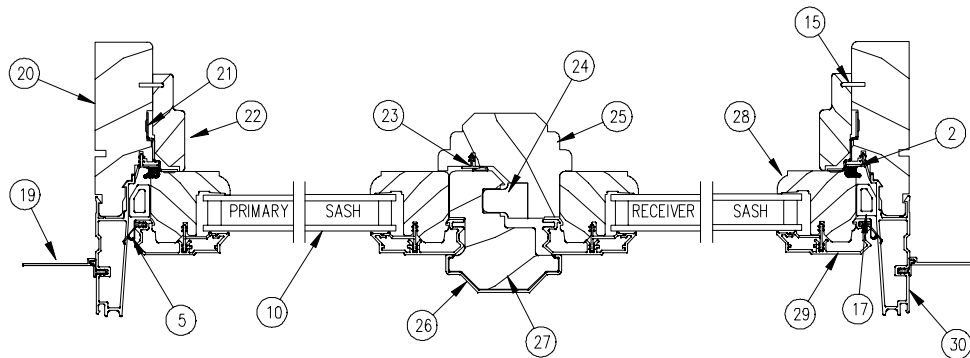
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|-------------------------------------|--------------------------------|------------------------------------|--------------------|
| 1. Head Jamb Nailing Fin & Drip Cap | 10. Insulated Glass            | 19. Sill Nailing Fin               | 28. Stile          |
| 2. Frame Weather Strip, V138        | 11. Screen Mesh                | 20. Sill                           | 29. Stile Cladding |
| 3. Head Jamb                        | 12. Bottom Rail                | 21. Jamb Nailing Fin               | 30. Jamb Cladding  |
| 4. Head Jamb Cladding               | 13. Hardware Cover, W8459      | 22. Jamb                           |                    |
| 5. Sash Weather Strip, V195         | 14. Folding Crank Handle       | 23. Jamb Stop, V1162               |                    |
| 6. Top Rail Cladding                | 15. Bottom Rail Cladding       | 24. Astragal Weather Strip, V192   |                    |
| 7. Top Rail                         | 16. Sill Cladding              | 25. Astragal Cap, A215             |                    |
| 8. Screen Frame                     | 17. Connecting Barb, V803      | 26. Primary Sash Astragal, W9011   |                    |
| 9. Head Jamb Stop, W8461            | 18. Folding Crank Handle Cover | 27. Secondary Sash Astragal, W3139 |                    |

**CLAD FRENCH CASEMASTER  
 STATIONARY**

**HEAD JAMB  
 & SILL DETAIL**



**JAMB  
 DETAIL**

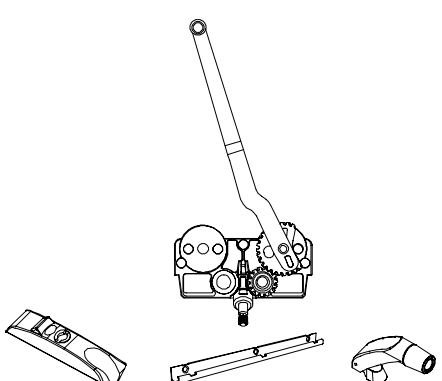
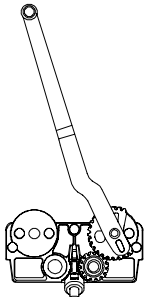
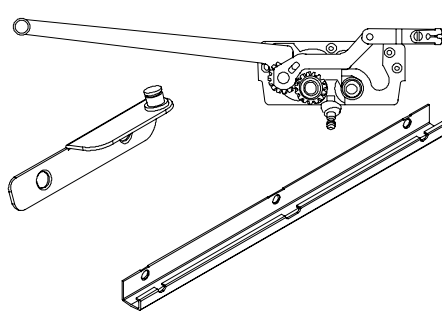
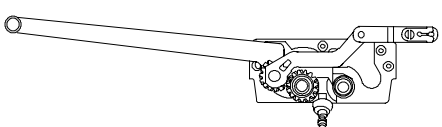



NOTE: Not to scale; specifications subject to change without notice.

- |  |                           |                                    |                    |
|--|---------------------------|------------------------------------|--------------------|
| 1. Head Jamb Nailing Fin & Drip Cap    | 10. Insulated Glass       | 19. Jamb Nailing Fin               | 28. Stile          |
| 2. Frame Weather Strip, V138           | 11. Bottom Rail Cladding  | 20. Jamb                           | 29. Stile Cladding |
| 3. Head Jamb                           | 12. Sill Cladding         | 21. Jamb Stationary Bracket        | 30. Jamb Cladding  |
| 4. Head Jamb Cladding                  | 13. Bottom Rail           | 22. Jamb Stop, W7015               | 31. Support Block  |
| 5. Sash Weather Strip, V195            | 14. Sill Cover, W8459     | 23. Astragal Weather Strip, V195   |                    |
| 6. Top Rail Cladding                   | 15. Connecting Barb, W803 | 24. Stationary Astragal Interlock  |                    |
| 7. Top Rail                            | 16. Sill Nailing Fin      | 25. Secondary Sash Astragal, W3139 |                    |
| 8. Head Jamb / Sill Stationary Bracket | 17. Setting Block         | 26. Astragal Cap, A215             |                    |
| 9. Head Jamb Stop, W7001               | 18. Sill                  | 27. Primary Sash Astragal, W9011   |                    |

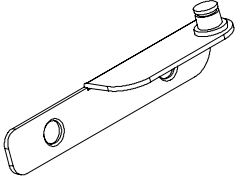
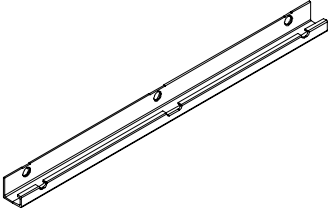
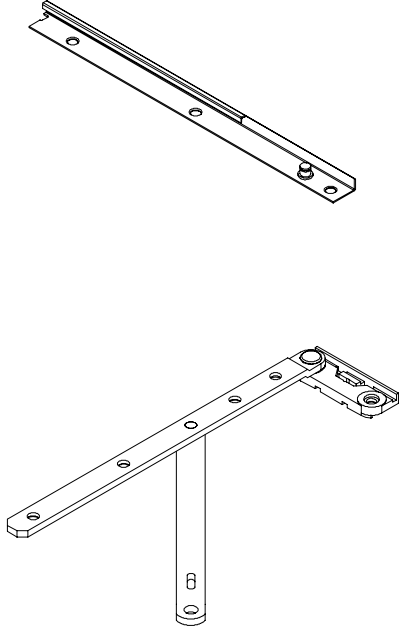

When ordering replacement French Casemaster parts specify:

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

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Single Arm Roto-gear Operator, Complete</b> CN 40 to under CN 48 width* For sash with daylight opening width of 14 1/2" (368) to under 18 1/2" (470)</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Single arm roto-gear LH - 10814810 RH - 10814811</li> <li>1 - Sash track 10830706</li> <li>1 - Folding handle and cover package TP - 10898280 BZ - 10898300 WH - 10898290</li> <li>5 - #8x1" Phillips flat head wood screws (11800740)</li> <li>3 - #7HD - #8x1" Phillips flat head screws (11800773)</li> </ul>	<p>LH TP RH TP</p> <p>LH BZ RH BZ LH WH RH WH</p>	<p>11869408 11869409</p> <p>11869440 11869441 11869442 11869443</p>
	<p><b>Single Arm Roto-gear Operator</b> CN 40 to under CN 48 width* For sash with daylight opening width of 14 1/2" (368) to under 18 1/2" (470) Requires removable cover</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Single arm roto-gear</li> <li>5 - #8x1" Phillips flat head wood screws</li> </ul>	<p>LH RH</p>	<p>10814810 10814811</p>
 <p>NOTE: Handle and cover must be ordered separately.</p>	<p><b>Egress Dual Arm Roto-gear Operator, Complete</b> CN 48* through CN 56 width For sash with daylight opening width of 18 1/2" (470) through 22 1/2" (572)</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Egress dual arm roto-gear LH - 10814800 RH - 10814801</li> <li>1 - Sash track 10830706</li> <li>1 - Egress sash bracket LH - 10814830 RH - 10814831</li> <li>5 - #8x1" Phillips flat head wood screws (11800740)</li> <li>5 - #7HD - #8x1" Phillips flat head screws (11800773)</li> </ul>	<p>LH RH</p>	<p>11869342 11869343</p>
	<p><b>Egress Dual Arm Roto-gear Operator</b> CN 48* through CN 56 width For sash with daylight opening width of 18 1/2" (470) through 22 1/2" (572)</p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> <li>1 - Egress dual arm roto-gear</li> <li>5 - #8x1" Phillips flat head wood screws (11800740)</li> </ul>	<p>LH RH</p>	<p>10814800 10814801</p>
	<p><b>Detach Clip, Dual Arm Roto-gear</b></p>	<p>Mill Finish</p>	<p>10814839</p>

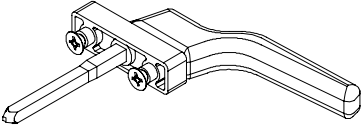
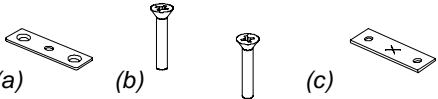
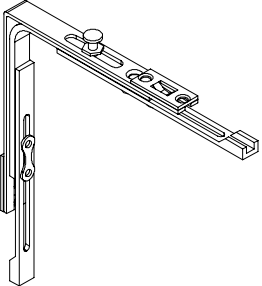
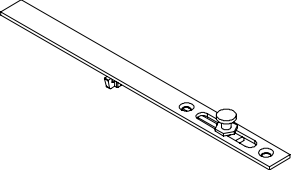
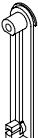
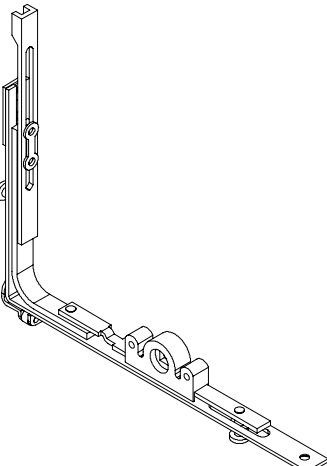
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

\* Pre 7/1/99 units use single arm up to CN 48 width.

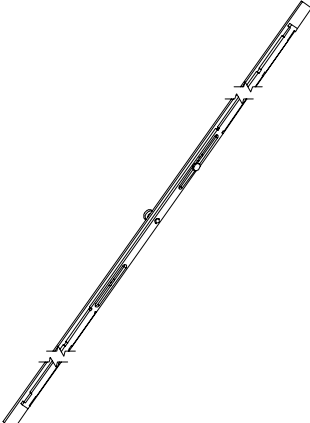
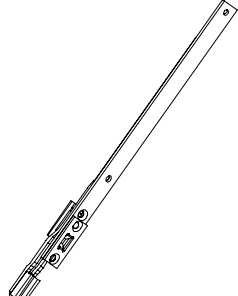
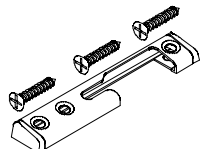
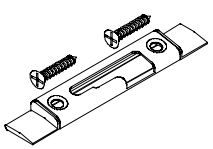
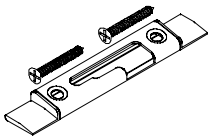
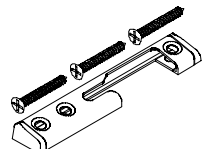
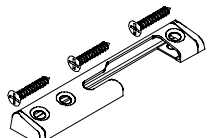
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Egress Sash Bracket</b> Includes: 1 - Egress sash bracket 2 - #7HD - #8x1" Phillips flat head wood screws (11800773)</p>	LH RH	10814830 10814831
	<p><b>Sash Track</b> Includes: 1 - Sash track 3 - #7HD - #8x1" Phillips flat head wood screws (11800773)</p>		10830706
	<p><b>Adjustable Hinge Package, Complete</b> Used only on French Casemaster units Requires 3/8" open end wrench (10814840) for adjustment Includes: 4 - Adjustable hinge tracks 2 - LH - 10814743 2 - RH - 10814744 4 - Hinge arm assemblies 2 - LH - 10814860 2 - RH - 10814861 12 - SS #7x5/8" Phillips flat head wood screws (11800736) 16 - #7HD - #8x1" Phillips flat head wood screws (11800773)</p>		11873206
	<p><b>3/8" Open End Wrench</b></p>	Mill Finish	10814840

NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

NOTE: These parts are for FCM units ordered 9/12/05 and later. RT FCM units use pre-9/12/05 hardware.

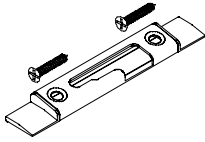



ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Lock Handle</b> Includes: 1 - Handle 2 - 1/4" x3/4" Phillips flat head machine screws (11800119)</p>	TP BZ WH BS AB SC SN ORBZ	10816103 10816101 10816100 10816102 10816104 10816106 10816108 10816107
	<p><b>Handle Accessory Kit</b> For FCM Handle Includes: 1 - Face Plate (10816041) (a) 2 - M5x2mm flat head screws (10816045) (b) 1 - Gasket (10816098) (c)</p>		11850115
	<p><b>Top Corner Drive</b> Includes: 1 - Top Corner 4 - #8x1 1/4" Phillips flat head screws (11808118)</p>		10816025
	<p><b>Top Corner Secondary Extension</b> For units with RO width 50 1/2" and greater Includes: 1 - Extension 2 - #8x1 1/4" Phillips flat head screws (11808118)</p>		10816026
	<p><b>Top Corner Driver Filler</b> For units with RO width under 50 1/2" Includes: 1 - Filler 1 - #8x1 1/4" Phillips flat head screws (11808118)</p>		10816028
	<p><b>Bottom Corner Drive</b> Includes: 1 - Bottom Corner 3 - #8x1 1/4" Phillips flat head screws (11808118)</p>		10816024

NOTE: These parts are for FCM units ordered 9/12/05 and later. RT FCM units use pre-9/12/05 hardware.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Linkage</b> Includes: Linkage #8 x 1 1/4" Phillips flat head screws (11808118) (quantity of screws varies by size of unit)</p> <p style="text-align: right;">1 Screw - CN32 CN36 CN40</p> <p style="text-align: right;">4 Screws - CN48 CN56 CN60</p> <p style="text-align: right;">6 Screws - CN64 CN72</p> <p style="text-align: right;">75 19/32" (1920)</p>		<p>10816029 10816031 10816032 10816033 10816034 10816035 10816036 10816037 10816040</p>
	<p><b>230mm Linkage Extension</b> Without cam, no lock point For special height For replacement, specify length of face plate of original part. Includes: 2 - #8 x 1 1/4" Phillips flat head screws (11808118)</p>		10816097
	<p><b>WFCM Head Jamb Strike Kit</b> Wood Only Includes: 1 - Strike Plate (10816092) 3 - #10-13 x 1" SS screws (11830011)</p>		11851600
	<p><b>WFCM Sill Strike or Second Head Jamb Strike Kit</b> Wood Only Includes: 1 - Sequential Strike (10816091) 2 - #10-13 x 1" SS screws (11830011)</p>		11851601
	<p><b>FCM Astragal Strike (Upper) Kit</b> Includes: 1 - Sequential Strike (10816091) 2 - #8 x 1 1/4" SS screws (11808118)</p>		11851602
	<p><b>FCM Astragal Strike (Bottom) Kit</b> Includes: 1 - Sequential Strike (10816092) 3 - #8 x 1 1/4" SS screws (11808118)</p>		11851603
	<p><b>CFCM Head Jamb Strike Kit</b> Clad Only Includes: 1 - Strike Plate (10816092) 3 - #7 x 7/8" SS screws (11800777)</p>		11851604

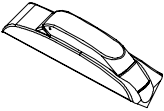
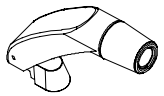
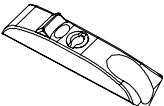
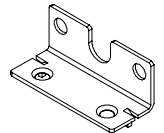
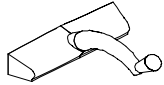

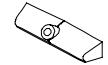
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

NOTE: These parts are for FCM units ordered 9/12/05 and later. RT FCM units use pre-9/12/05 hardware.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>CFCM Sill Strike or Second Head Jamb Strike Kit</b> Clad Only <i>Includes:</i> 1 - Sequential Strike (10816091) 2 - #7 x 7/8" SS screws (11800777)		11851605
	<b>Run Up Block</b> For Sash Lift <i>Includes:</i> 1 - Block 1 - #7 x 5/8" flat head self tapping screw (11800736)		10816095
	<b>Face Plate</b> <i>Includes:</i> 1 - Face Plate 2 - M5 x 2mm flat head screws (10816045)		10816041
	<b>Gasket</b>		10816098

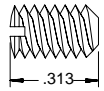
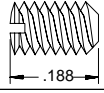


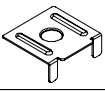
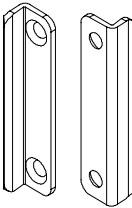
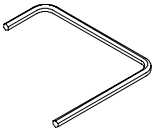
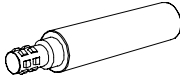
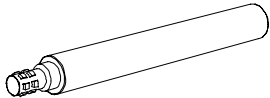
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

NOTE: These parts are for all FCM units.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Folding Handle and Cover Package</b> <i>Includes:</i> 1 - Handle with set screw 1 - Cover	TP BZ WH BS AB SC SN ORBZ	10898280 10898300 10898290 10898310 10898320 10898340 10898360 10898350
	<b>Handle, Folding with set screw</b>	TP BZ WH BS AB SC SN ORBZ	10898282 10898302 10898292 10898312 10898322 10898342 10898362 10898352
	<b>Handle Cover, Folding</b>	TP BZ WH BS AB SC SN ORBZ	10898281 10898301 10898291 10898311 10898321 10898341 10898361 10898351
	<b>Multi-Lock Handle Mounting Bracket</b> 2 - #8 x 1" Phillips flat head wood screws (11800810)		10816023
	<b>Curved Handle and Cover Package</b> <i>Includes:</i> 1 - Handle with set screw 1 - Cover	TP BZ WH BS	10898270 10898240 10898250 10898260
	<b>Handle, Curved with set screw</b>	TP BZ WH BS	10898272 10898242 10898252 10898263
	<b>Handle Cover, Curved</b>	TP BZ WH BS	10898271 10898241 10898251 10898261

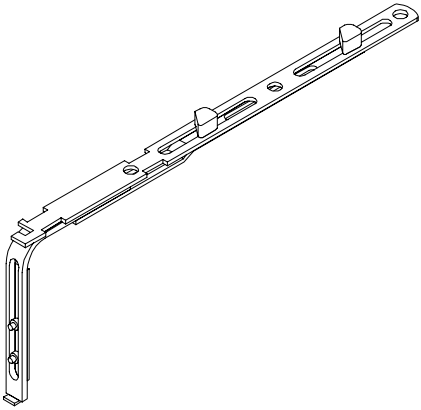
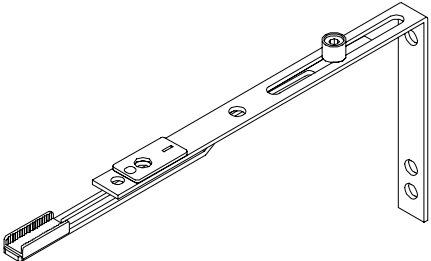
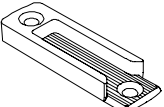
NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

NOTE: These parts are for all FCM units.

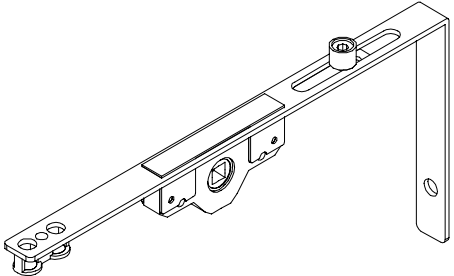
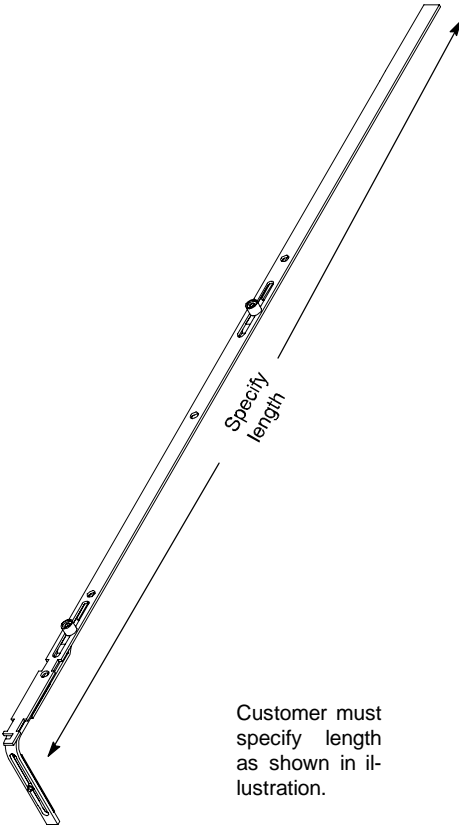
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Set Screw for Curved Handle</b>	TP BZ WH	10898273 10898243 10898253
	<b>Set Screw for Folding Handle</b>	SS	10898283
	<b>Primary Sash Astragal Blocks</b>		10500097
	<b>Secondary Sash Astragal Blocks</b>		10500098
	<b>Astragal Cap Holding Bracket</b> Clad FCM only		10500096
	<b>Snubber, Concealed, Coastal Hardware</b> Wood Casemaster, 2 per package <i>Includes:</i> 2 - Snubbers - 10899110 2 - #7x5/8" Phillips flat head wood screws (11800736) 2 - #8x1" Phillips flat head wood screws (11800805)		11873197
	<b>Snubber, Concealed, Coastal Hardware</b> Clad Casemaster, 2 per package <i>Includes:</i> 2 - Snubbers - 10899110 2 - #7x1/2" Phillips flat head wood screws (11800753) 2 - #8x1" Phillips flat head wood screws (11800805)		11873295
	<b>4mm Allen Wrench</b> For roller adjustment on multi-point lock	Mill Finish	No longer available
	<b>Extension</b> 2" (51) for roto gear Handle	TP BZ WH	05570436 05570432 05570430
	<b>Extension</b> 4" (102) for roto gear Handle	TP BZ WH	05570435 05570431 05570429

NOTE: **Standard** hardware (unless noted) will be supplied with Yellow Zinc Dichromate (YZD) coating until stocks are depleted, E-Gard coated hardware will then be substituted. If E-Gard coated hardware is desired it must be specified. **Components with "YZD" specified as the color are only available with Yellow Zinc Dichromate (YZD) coating.**

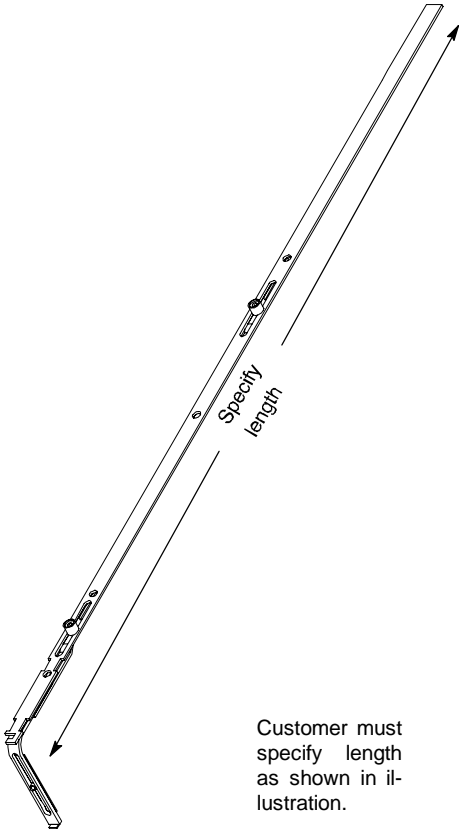
NOTE: These parts are for current RT FCM units and FCM's built before 9/12/05

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Extension, Top Corner</b> CN 40 width Rough opening 41" (1041) to 45 5/16" (1167) <i>Includes:</i> 1 - Extension 1 - #8x1" Phillips flat head wood screw (11800810) 1 - #8x1 1/2" Phillips flat head wood screw (11808112)	YZD	10816006
	<b>Extension, Top Corner</b> CN 48 and CN 56 width Rough openings 45 3/8" (1153) to 57" (1448) <i>Includes:</i> 1 - Extension 2 - #8x1" Phillips flat head wood screws (11800810) 1 - #8x1 1/2" Phillips flat head wood screws (11808112)	YZD	10816007
	<b>Extension, Top Corner, Stainless Steel</b> CN 40 width Rough opening 41" (1041) to 45 5/16" (1167) <i>Includes:</i> 1 - SS extension 1 - SS #8x1" Phillips flat head wood screws (11800805) 1 - SS #7x1 1/4" Phillips flat head wood screws (11808118)	SS	Check for availability
	<b>Extension, Top Corner, Stainless Steel</b> CN 48 and CN 56 width Rough openings 45 3/8" (1153) to 57" (1448) <i>Includes:</i> 1 - SS extension 2 - SS #8x1" Phillips flat head wood screws (11800805) 1 - SS #7x1 1/4" Phillips flat head wood screw (11808118)	SS	Check for availability
	<b>Top Corner</b> Used for all sizes <i>Includes:</i> 1 - Top corner 3 - #8x1" Phillips flat head wood screws (11800810)	YZD	10816001
	<b>Top Corner, Stainless Steel</b> Used for all sizes <i>Includes:</i> 1 - SS top corner 3 - SS #8x1" Phillips flat head wood screws (11800805)	SS	Check for availability
	<b>Strike</b> Used for all sizes <i>Includes:</i> 1 - Strike 1 - #7x5/8" Phillips flat head wood screws (11800758) 1 - #8x1" Phillips flat head wood screws (11800810)	YZD	10816004

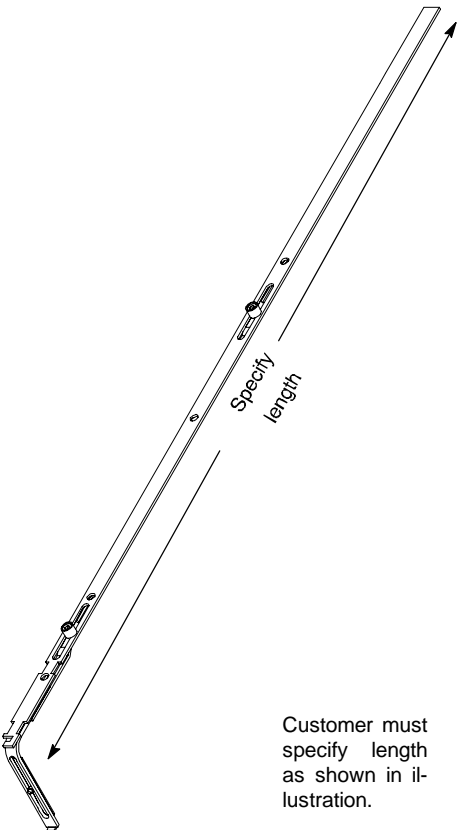
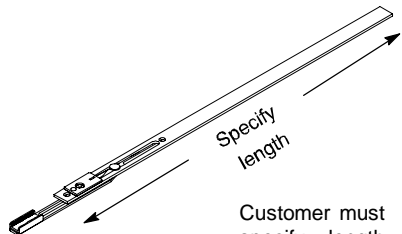
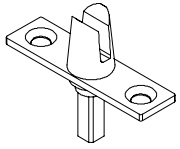
NOTE: These parts are for current RT FCM units and FCM's built before 9/12/05

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Bottom Corner</b> Used for all sizes</p> <p><i>Includes:</i> 1 - Bottom corner 2 - #8x1" Phillips flat head wood screws (11800810) 1 - #8x1 1/2" Phillips flat head wood screws (11808112)</p>	YZD	10816000
	<p><b>Bottom Corner, Stainless Steel</b> Used for all sizes</p> <p><i>Includes:</i> 1 - SS bottom corner 2 - SS #8x1" Phillips flat head wood screws 1 - SS #8x1 1/2" Phillips flat head wood screws</p>	SS	No longer available
 <p>Specify length</p> <p>Customer must specify length as shown in illustration.</p>	<p><b>Gear, Fixed</b> CN 32 21 1/8" (537) length</p> <p><i>Includes:</i> 1 - Fixed gear 2 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816008
	<p><b>Gear, Fixed</b> CN 36 25 1/8" (638) length</p> <p><i>Includes:</i> 1 - Fixed gear 3 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816009
	<p><b>Gear, Fixed</b> CN 40 29 1/8" (740) length</p> <p><i>Includes:</i> 1 - Fixed gear 3 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816010
	<p><b>Gear, Fixed</b> CN 48 37 1/8" (943) length</p> <p><i>Includes:</i> 1 - Fixed gear 4 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816011
	<p><b>Gear, Fixed</b> CN 56 45 1/8" (1146) length</p> <p><i>Includes:</i> 1 - Fixed gear 5 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816012
<p><b>Gear, Fixed</b> CN 60 49 1/8" (1248) length</p> <p><i>Includes:</i> 1 - Fixed gear 5 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816013	

NOTE: These parts are for current RT FCM units and FCM's built before 9/12/05

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
 <p data-bbox="402 1438 555 1537">Customer must specify length as shown in illustration.</p>	<p><b>Gear, Fixed</b> CN 64 53 1/8" (1349) length <i>Includes:</i> 1 - Fixed gear 5 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816014
	<p><b>Gear, Fixed</b> CN 72 61 1/8" (1553) length <i>Includes:</i> 1 - Fixed gear 6 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816015
	<p><b>Gear, Fixed, Stainless Steel</b> CN 32 21 1/8" (537) length <i>Includes:</i> 1 - SS fixed gear 2 - SS #8x1" Phillips flat head wood screws</p>	SS	No longer available
	<p><b>Gear, Fixed, Stainless Steel</b> CN 36 25 1/8" (638) length <i>Includes:</i> 1 - SS fixed gear 3 - SS #8x1" Phillips flat head wood screws</p>	SS	No longer available
	<p><b>Gear, Fixed, Stainless Steel</b> CN 40 29 1/8" (740) length <i>Includes:</i> 1 - SS fixed gear 3 - SS #8x1" Phillips flat head wood screws (11800805)</p>	SS	Check for availability
	<p><b>Gear, Fixed, Stainless Steel</b> CN 48 37 1/8" (943) length <i>Includes:</i> 1 - SS fixed gear 4 - SS #8x1" Phillips flat head wood screws (11800805)</p>	SS	Check for availability
	<p><b>Gear, Fixed, Stainless Steel</b> CN 56 45 1/8" (1146) length <i>Includes:</i> 1 - SS fixed gear 5 - SS #8x1" Phillips flat head wood screws</p>	SS	No longer available

NOTE: These parts are for current RT FCM units and FCM's built before 9/12/05

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
 <p>Customer must specify length as shown in illustration.</p>	<p><b>Gear, Fixed, Stainless Steel</b> CN 60 49 1/8" (1248) length <i>Includes:</i> 1 - SS fixed gear 5 - SS #8x1" Phillips flat head wood screws</p>	SS	No longer available
	<p><b>Gear, Fixed, Stainless Steel</b> CN 64 53 1/8" (1349) length <i>Includes:</i> 1 - SS fixed gear 5 - SS #8x1" Phillips flat head wood screws (11800805)</p>	SS	Check for availability
	<p><b>Gear, Fixed, Stainless Steel</b> CN 72 61 1/8" (1553) length <i>Includes:</i> 1 - SS fixed gear 5 - SS #8x1" Phillips flat head wood screws (11800805)</p>	SS	Check for availability
 <p>Customer must specify length as shown in illustration.</p>	<p><b>Extension, Variation</b> Used on special height units Specify length of face plate <i>Includes:</i> 1 - Extension 2 - #8x1" Phillips flat head wood screws (11800810)</p>	YZD	10816005
	<p><b>Extension, Variation, Stainless Steel</b> Used on special height units Specify length of face plate <i>Includes:</i> 1 - SS extension 2 - SS #8x1" Phillips flat head wood screws (10816018)</p>	SS	No longer available
	<p><b>Fork Connector, Multi-lock, with Plate</b> <i>Includes:</i> 1 - Fork connector with plate 2 - 5x25mm Phillips flat head machine screws</p>	YZD	10816002
	<p><b>Fork Connector, Multi-lock, with Plate, Coastal</b> <i>Includes:</i> 1 - Coastal Fork connector with plate 2 - 5x25mm Phillips flat head machine screws</p>		No longer available

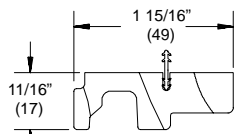
**CURRENT REPLACEMENT WOOD, VINYL AND ALUMINUM PARTS**

Please reference the Aluminum Chapter (located online only) for select and standard color part numbers.

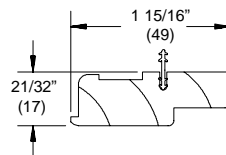
	French Casemaster manufactured after February 7, 1994
Head Jamb Stop Operator	W8461*
Head Jamb Stop Stationary	W7001
Sill Cover Operator / Stationary	W8459*†
Side Stop Stationary	W7015
Primary Astragal - FCMRT	W3138
Primary Astragal - FCM	W9011*
Stationary Astragal Interlock - FCM	W9012
Secondary Astragal	W3139
Stationary Astragal Interlock	W7115
Side Stop	V1162*
Astragal Cap	A215
NOTE: All replacement interior wood parts for operator and stationary units are supplied with connecting barb (where applicable).	

\* Manufactured after March 31, 2003.

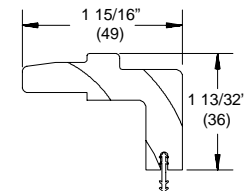
† Please add a comment line if ordering W8459 for a pre 9/12/05 unit.



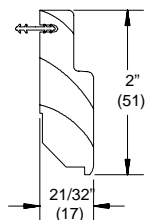
W8461 - Head Jamb Stop Operator



W7001 - Head Jamb Stop Stationary



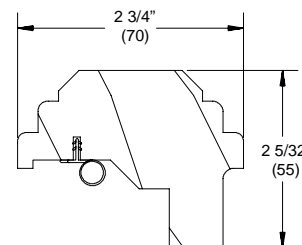
W8459 - Sill Cover Operator / Stationary



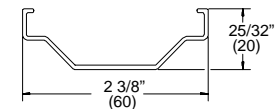
W7015 - Side Stop Stationary



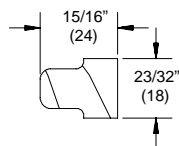
W3138 - Primary Sash Astragal - FCMRT Only



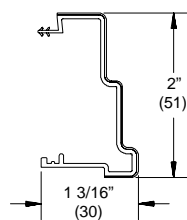
W3139 - Secondary Sash Astragal



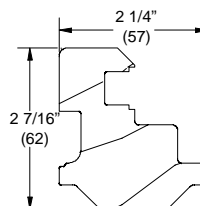
A215 - Primary Sash Astragal Cap



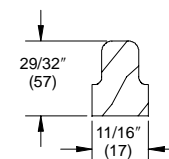
W7115 - Stationary Astragal Interlock  
 (obsolete FCM 9/12/05)



V1162 - Side Stop  
 Must specify right/left locking or hinged jamb.



W9011 - Primary Sash Astragal - FCM



W9012 - Stationary Astragal Interlock  
 (For FCM as of 9/12/05)

**TO ORDER REPLACEMENT WOOD PARTS**

When ordering replacement parts specify:

1. profile number;
2. call number or rough opening;
3. operation (left, right, stationary, primary and secondary);
4. length;
5. finish.

**ORDERING REPLACEMENT OPERATOR OR STATIONARY SASH FOR FRENCH CASEMASTER UNITS**

When ordering replacement operating or stationary sash specify:

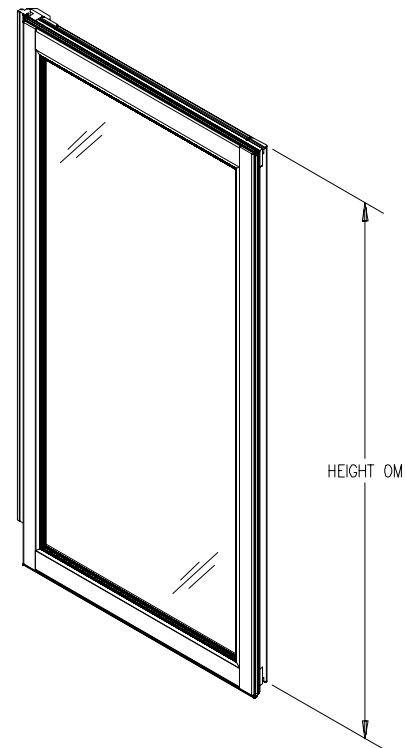
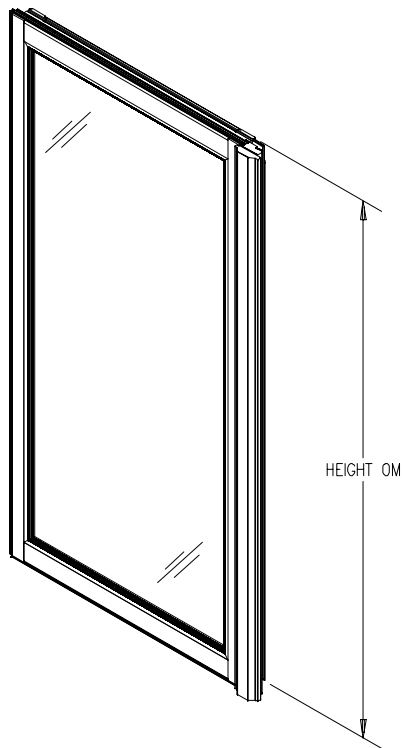
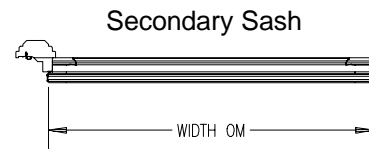
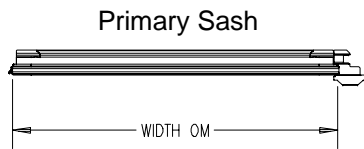
1. size (call number or OM of sash);
2. operator or stationary:
  - a. if operator specify primary or secondary sash. (All sash shipped without hardware unless stated on order for an additional charge.)
3. glazing;
4. finish.

**SASH OUTSIDE MEASUREMENT**

NOTE: OM of sash does not include astragal.

Wood DLO + 3 3/4" (95) = OM Width of Sash

Clad DLO + 3 7/8" (98) = OM Width of Sash



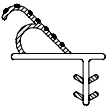


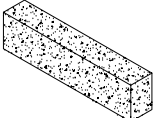
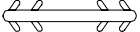
Wood DLO + 4 5/8" (117) = OM Height of Sash

Clad DLO + 4 5/8" (117) = OM Height of Sash

When ordering replacement parts specify:

1. quantity;
2. color;
3. part number;
4. description.

**FRENCH CASEMASTER WEATHER STRIP**

<b>ILLUSTRATION</b> <i>NOT TO SCALE</i>	<b>DESCRIPTION</b>	<b>LENGTH</b>	<b>PART NUMBER</b>
	<b>Flex-Leg Weather Strip, Sash</b> V195 Color: Beige	150" (3810)	15708399
	<b>Foam Weather Strip, Frame</b> V138 Color: Beige	150" (3810)	15910299
	<b>Offset Bulb Weather Strip, Secondary Sash Astragal</b> V192 Color: Beige	84" (2134)	15900058
	<b>Foam Seal</b> 3/8" x 1 1/2" x 1/4" Color: Black		10500099
	<b>Connecting Barb</b> V803  NOTE: Color may vary depending on current stock.	Specify Length	15812999

## ORDERING REPLACEMENT SCREENS - FRENCH CASEMASTER

Screens are available with aluminum surround and charcoal colored fiberglass 18 x 16 screen mesh. Aluminum mesh is available as an option in black, charcoal, bright aluminum, or bright bronze. Determine the outside measurement of the existing screen. Find the sizes that correspond to the width and height indicated on the following charts. Surrounds are available in satin taupe, bronze, white, pebble gray and brown.

When ordering replacement screen specify:

1. size; - If there is no existing screen from which to obtain the OM of the screen, determine the size of the screen by using measurement conversion charts below. The daylight opening is the measurement of the visible glass.
2. color;
3. mesh type (if other than standard).

<b>French Casemaster Screen Sizes Manufactured after March 30, 2003</b>			
<b>Daylight Opening to OM of Screen</b>			
Daylight Opening Width x 2 + 7 13/32" = OM Width of Screen			
Daylight Opening Height + 2 7/32" = OM Height of Screen			
WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 40	36 25/64"	CN 32	27 1/32"
CN 48	44 25/64"	CN 36	31 1/32"
CN 56	52 25/64"	CN 40	35 1/32"
		CN 48	43 1/32"
		CN 56	51 1/32"
		CN 60	55 1/32"
		CN 64	59 1/32"
		CN 72	67 1/32"

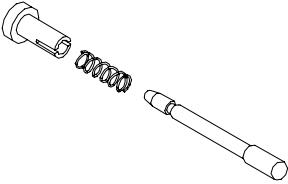


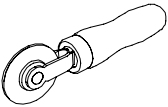
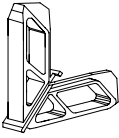

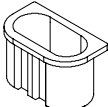
<b>French Casemaster Screen Sizes Manufactured after February 7, 1994 to March 30, 2003</b>			
<b>Daylight Opening to OM of Screen</b>			
Daylight Opening Width x 2 + 7 3/8" = OM Width of Screen			
Daylight Opening Height + 2 7/32" = OM Height of Screen			
NOTE: Screens feature bayonet type mounting system.			
WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 40	36 3/8"	CN 32	27 1/32"
CN 48	44 3/8"	CN 36	31 1/32"
CN 56	52 3/8"	CN 40	35 1/32"
		CN 48	43 1/32"
		CN 56	51 1/32"
		CN 60	55 1/32"
		CN 64	59 1/32"
		CN 72	67 1/32"

<b>French Casemaster Screen Sizes Manufactured before February 7, 1994 to March 30, 2003</b>			
<b>Daylight Opening to OM of Screen</b>			
Daylight Opening Width x 2 + 7 1/2" = OM Width of Screen			
Daylight Height + 2 1/2" = OM Height of Screen			
NOTE: Screens feature black finger pull/leaf spring mounting system.			
WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 40	36 1/2"	CN 32	27 5/16"
CN 48	44 1/2"	CN 36	31 5/16"
CN 56	52 1/2"	CN 40	35 5/16"
		CN 48	43 5/16"
		CN 56	51 5/16"
		CN 60	55 5/16"
		CN 64	59 5/16"
		CN 72	67 5/16"

The following parts are used on French Casemaster screens. When ordering replacement parts specify:

1. part number;
2. quantity.

**FRENCH CASEMASTER SCREEN PARTS**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Plunger and Spring Assembly</b> FCM and RT screens <i>Includes:</i> 1 - Plunger bolt - aluminum 1 - Plunger bolt cap - Nylon 1 - Plunger bolt spring	Black(cap) Black (bolt)	11900891
	<b>Screen Cloth, Fiberglass</b>  36" x 600' 48" x 300' 72" x 300'	Charcoal	11253600 11254800 11257200
	<b>Splines, Screen</b> V201 Specify lineal feet needed	Black	15221488
	<b>Splines Roller</b> Tool for rescreening		02590541
	<b>Corner Key, Screen</b> MISC 051	03 BZ SW TP/PB BN CL EG	11867865 11867875 11867863 11867864 11867866 11867868
	<b>Screen Surround, Aluminum Profile</b> A135 Available in 150" (3810) length	TP 03 BZ SW PB BN EG	15231350 15231299 18801120 15231150 15231499 15230199
	<b>Screen Pin Receptacle</b> FCM and RT screens		05070410

## ORDERING ENERGY PANELS FOR FRENCH CASEMASTER

If you are replacing an existing energy panel, determine the outside measurement of the existing energy panel. Find the sizes that correspond to the width and height indicated on the following charts. Energy panels are available for French Casemasters with bronze, stone white, brown, pebble gray, or arctic white aluminum surrounds.

When ordering energy panels specify:

1. size; If there is no existing EP from which to obtain the OM of the panel, determine the size of the EP by using measurement conversion charts below. The daylight opening is the measurement of the visible glass.
2. color of surround;
3. glass type.

Note: EP sizes and conversions are based on daylight opening of one sash.

French Casemaster Manufactured between 1992 - Present			
Daylight Opening to OM of EP			
Daylight Width + 1 1/8" = OM Width of EP		Daylight Height + 1 1/8" = OM Height of EP	
WIDTH		HEIGHT	
SIZE	OM-WIDTH	SIZE	OM-HEIGHT
CN 40	15 5/8"	CN 32	25 15/16"
CN 48	19 5/8"	CN 36	29 15/16"
CN 56	23 5/8"	CN 40	33 15/16"
		CN 48	41 15/16"
		CN 56	49 15/16"
		CN 60	53 15/16"
		CN 64	57 15/16"
		CN 72	65 15/16"

## ENERGY PANEL PARTS

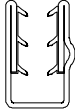

Energy panels are attached with turn buttons. Turn button styles may vary depending on current stock. You will receive the most current style in the color of your choice. (Obsolete black turn buttons will be replaced by brown.)

When ordering energy panel parts specify:

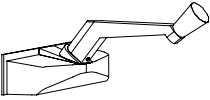
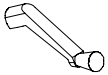
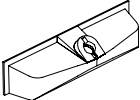
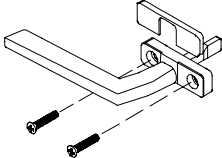
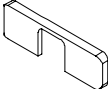
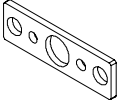
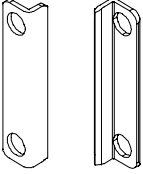
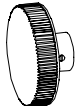

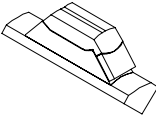
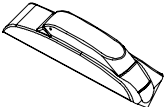
1. quantity;
2. description;
3. color;
4. part number.

ILLUSTRATION <i>NOT TO SCALE</i>	DESCRIPTION	PART NUMBER		
	<b>Turn Buttons with SS Screws #8x3/4"</b>	<u>Each</u>	<u>Pkg of 8</u>	<u>Pkg of 100</u>
	AR	11869310	N/A	11869316
	BZ	11869311	11869451	11869317
	PB	11869312	11869452	11869318
	BN	11869313	11869453	11869319
	SW	11869314	11869454	11869320
	CL	11869315	11869455	11869321

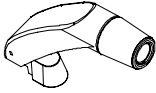
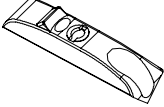
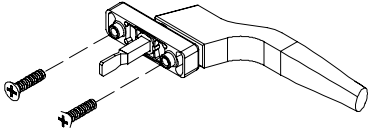
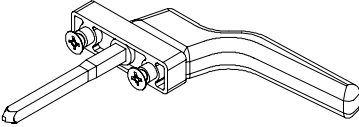
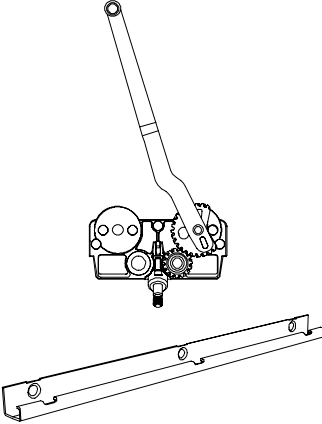
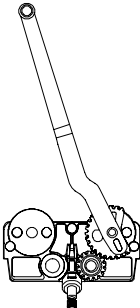
**ENERGY PANELS AND PARTS**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Energy Panel Surround, Aluminum Profile</b> A155 Stile and bottom rail For single strength glass - 3/32" (2.5) Available in 150" (3810) length	SW 15246299 BZ 15243399 PB 15243299 BN 15243199	
	<b>Energy Panel Surround, Aluminum Profile</b> A157 Stile and bottom rail For double strength glass - 1/8" (3.0) Available in 150" (3810) length	SW 15246199 BZ 15244299 PB 15244199 BN 15244099	
	<b>Energy Panel Surround, Aluminum Profile</b> With seal A159 Top rail For single strength glass - 3/32" (2.5) Available in 150" (3810) length	SW 15246499 BZ 15245299 PB 15245199 BN 15245099	
	<b>Energy Panel Surround, Aluminum Profile</b> With seal A162 Top rail For double strength glass - 1/8" (3.0) Available in 150" (3810) length	SW 15245999 BZ 15245799 PB 15245699 BN 15245599	

**OBSOLETE PARTS**

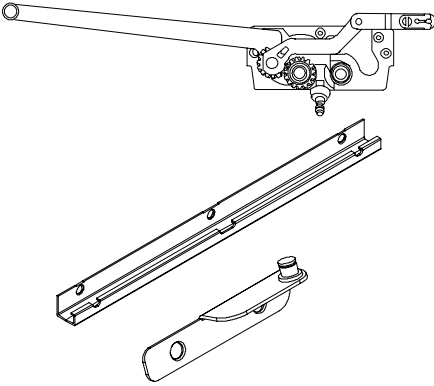
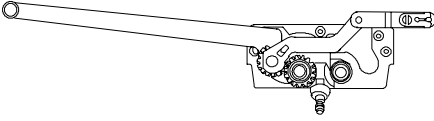
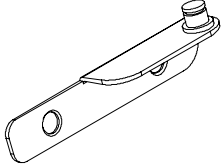
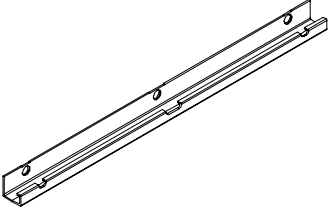
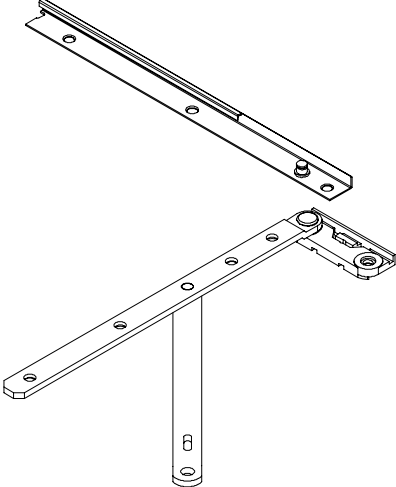
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Straight Handle and Cover Package</b> Used from 1991 to early 1994 <i>Includes:</i> 1 - Handle 1 - Cover	BZ WH	10898231 10840025
	<b>Handle, Straight</b> Used from 1991 to early 1994	BZ WH BS	10898230 10840007 No longer available
	<b>Handle Cover, Straight</b> Used from 1991 to early 1994	BZ WH BS	10810341 10840008 No longer available
	<b>Handle, Multi-lock</b> <i>Includes:</i> 1 - Multi-lock handle 1 - Escutcheon 2 - 5x25mm Phillips flat head machine screws		No longer available. Replace with current handle.
	<b>Escutcheon, Multi-lock</b>		No longer available. Replace with current handle.
	<b>Backer Plate</b> <i>Includes:</i> 1 - Backing Plate 2 - 1/4 x 3/4 mm Phillips flat head machine screw	SS	No longer available
	<b>Snubber, Concealed</b> 2 per package <i>Includes:</i> 2 - Snubbers 2 - #7x5/8" Phillips flat head wood screws (11800743) 2 - #7x7/8" Phillips flat head wood screws (11800798)		11873198
	<b>Snubber, Concealed, Coastal Hardware</b> 2 per package <i>Includes:</i> 2 - Snubbers 2 - #7x5/8" Phillips flat head wood screws (11800736) 4 - #7x7/8" Phillips flat head wood screws (11800777)		11873199
	<b>Handle, Circle with set screw</b>	BZ WH BS	05570421 10840022 05600006
	<b>Handle, Flip</b>	BZ WH BS	10814853 10814852 10814854
	<b>Folding Handle and Cover Package</b> <i>Includes:</i> 1 - Handle with set screw 1 - Cover	PC	10898330

**OBSOLETE PARTS**

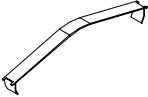
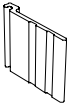

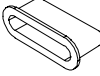
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Handle, Folding with set screw</b>	PC	10898332
	<b>Handle Cover, Folding</b>	PC	10898331
	<b>Handle, Multi-lock and Screws</b> <i>Includes:</i> 1 - Multi-lock handle 2 - 1/4" x 3/4" mm Phillips flat head machine screws (11800119)	PC TP BZ WH BS AB SC SN ORBZ	No longer* available
	<b>Lock Handle</b> <i>Includes:</i> 1 - Handle 2 - 1/4" x 3/4" Phillips flat head machine screws (11800119)	PC	10816105
	<b>Single Arm Roto-gear Operator, Complete, Coastal Hardware</b> CN 40 to under CN 48 width* For sash with daylight opening width of 14 1/2" (368) to under 18 1/2" (470) <i>Includes:</i> 1 - Single arm roto-gear LH - 10814806 RH - 10814809 1 - Sash track 10814812 8 - #8x1" Phillips flat head wood screws (11800805)	LH RH	11869375 11869374
	<b>Single Arm Roto-gear Operator, Coastal Hardware</b> CN 40 to under CN 48 width* For sash with daylight opening width of 14 1/2" (368) to under 18 1/2" (470) Requires removable cover <i>Includes:</i> 1 - Single arm roto-gear 5 - #8x1" Phillips flat head wood screws (11800805)	LH RH	10814806 10814809

\* The new handle retro-fits to product built before 9/12/05. Please order the new (current) handle for replacement purposes.



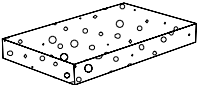


**OBSOLETE PARTS**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
 <p>NOTE: Handle and cover must be ordered separately.</p>	<p><b>Egress Dual Arm Roto-gear Operator, Complete, Coastal Hardware</b>            CN 48* through CN 56 width            For sash with daylight opening width of 18 1/2" (470) through 22 1/2" (572)</p> <p><i>Includes:</i>            1 - Egress dual arm roto-gear                LH - 10814802                RH - 10814803            1 - Sash track 10814812            1 - Egress sash bracket                LH - 10814834                RH - 10814835            10 - #8x1" Phillips flat head wood screws (11800805)</p>	LH RH	11869335 11869336
	<p><b>Egress Dual Arm Roto-gear Operator, Coastal Hardware</b>            CN 48* through CN 56 width            For sash with daylight opening width of 18 1/2" (470) through 22 1/2" (572)</p> <p><i>Includes:</i>            1 - Egress dual arm roto-gear            5 - #8x1" Phillips flat head wood screws (11800805)</p>	LH RH	10814802 10814803
	<p><b>Egress Sash Bracket, Coastal Hardware</b></p> <p><i>Includes:</i>            1 - Egress sash bracket            2 - #8x1" Phillips flat head wood screws (11800805)</p>	LH RH	10814834 10814835
	<p><b>Sash Track, Coastal Hardware</b></p> <p><i>Includes:</i>            1 - Sash track            3 - #8x1" Phillips flat head wood screws (11800805)</p>		10814812
	<p><b>Adjustable Hinge Package, Complete, Coastal Hardware</b>            Used only on French Casemaster units            Requires 3/8" open end wrench (10814840) for adjustment</p> <p><i>Includes:</i>            4 - Adjustable hinge tracks                2 - LH - 10814743                2 - RH - 10814744            4 - Hinge arm assemblies                2 - LH - 10814866                2 - RH - 10814867            12 - #7x5/8" Phillips flat head wood screws (11800736)            16 - #8x1" Phillips flat head wood screws (11800805)</p>		11873207

**OBSOLETE SCREEN PARTS**

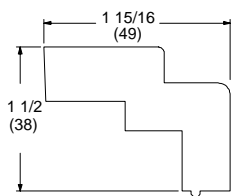
ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<b>Leaf Spring</b> M0104 Used from 1991 to early 1994		11868835
	<b>Finger Pull, Clear</b> V254 Used from 1993 to early 1994 Replaces black finger pull.		11860350
	<b>Bayonet Latch</b>	LH Dark BZ RH Dark BZ  LH 03 BZ RH 03 BZ  LH WH RH WH  PB	11040385 11040386  11040387 11040388  11040380 11040381  Contact Marvin
	<b>Receptacle</b> M556	Beige	11869624

**OBSOLETE WEATHER STRIP**

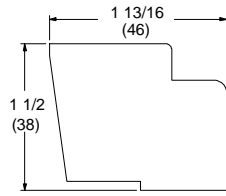
ILLUSTRATION NOT TO SCALE	DESCRIPTION	LENGTH	PART NUMBER
	<b>Jamb Weather Strip</b> V194 Color: Beige Used before July 1999	84" (2134)	15900007
	<b>Head Jamb and Sill Weather Strip</b> V192 Color: Beige Used before April 1993	84" (2134)	15900058
	<b>Foam Seal</b> 1 1/8 x 2" x 1/4" Color: Black Used before 7/1/99		Replace with 10500099
	<b>Foam Weather Strip, Frame</b> V124 Color: Beige	150" (3810)	Replace with 15910299
	<b>Flex-Leg Weather Strip, Sash</b> V191 Color: Beige	150" (3810)	Replace with 15708399

**OBSOLETE REPLACEMENT PARTS/INTERIOR**

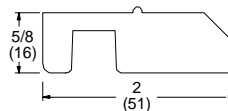
	Wood French Casemaster manufactured before February 7, 1994	Clad & Wood French Casemaster manufactured between Feb. 7, 1994- March 31, 2003
Hardware Cover Operator	W7022	W7018
Sill Cover Stationary	W7026	
Screen Channel Operator	W7028	
Head Jamb Stop	W7032	W7016
Inside Stop Stationary	W7034	
Side Stop		V905
	Wood French Casemaster manufactured before July 1, 1999	
Exterior Astragal	W7039	
Interior Astragal	W7040	
Stationary/Transom Astragal	W7043	



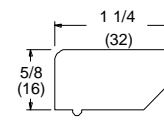
W7022 - Hardware  
Cover Operator



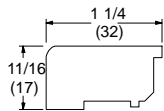
W7026 - Sill  
Cover Stationary



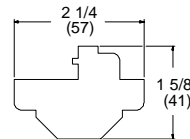
W7028 - Screen  
Channel



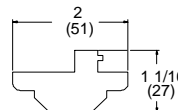
W7032 - Head  
Jamb Stop



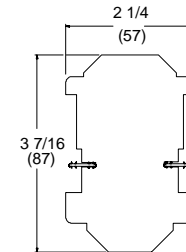
W7034 - Inside Stop  
Stationary



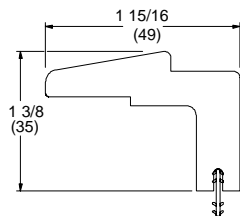
W7039 - Exterior Astragal



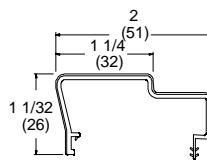
W7040 - Interior Astragal



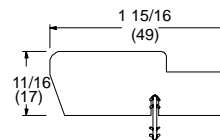
W7043 - Stationary/Transom  
Astragal



W7018 Hardware Cover Operator



V905 - Side Stop

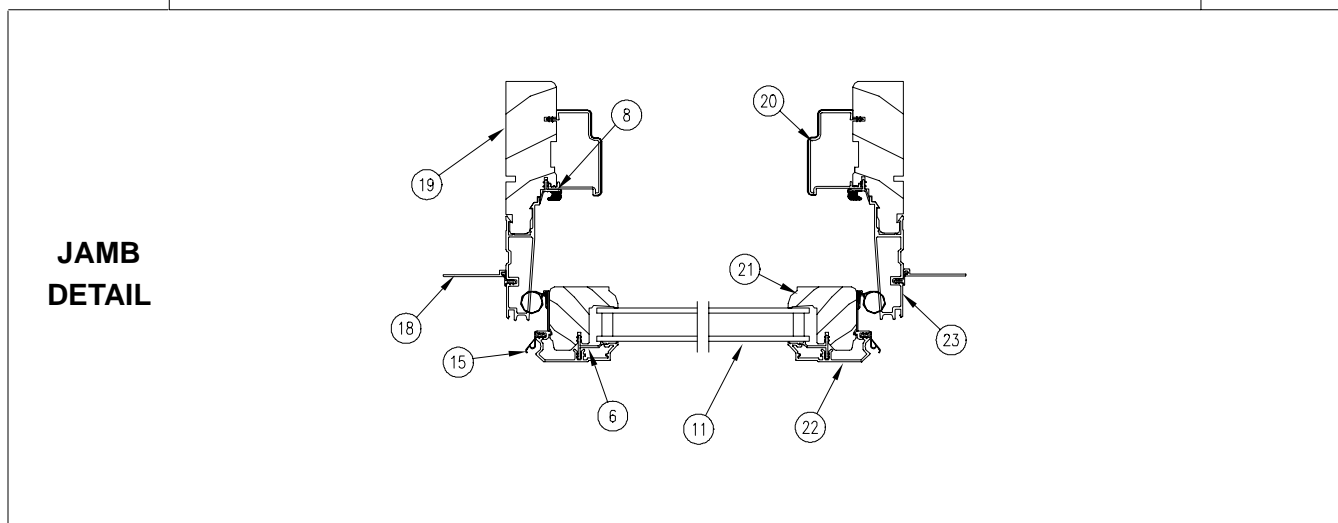
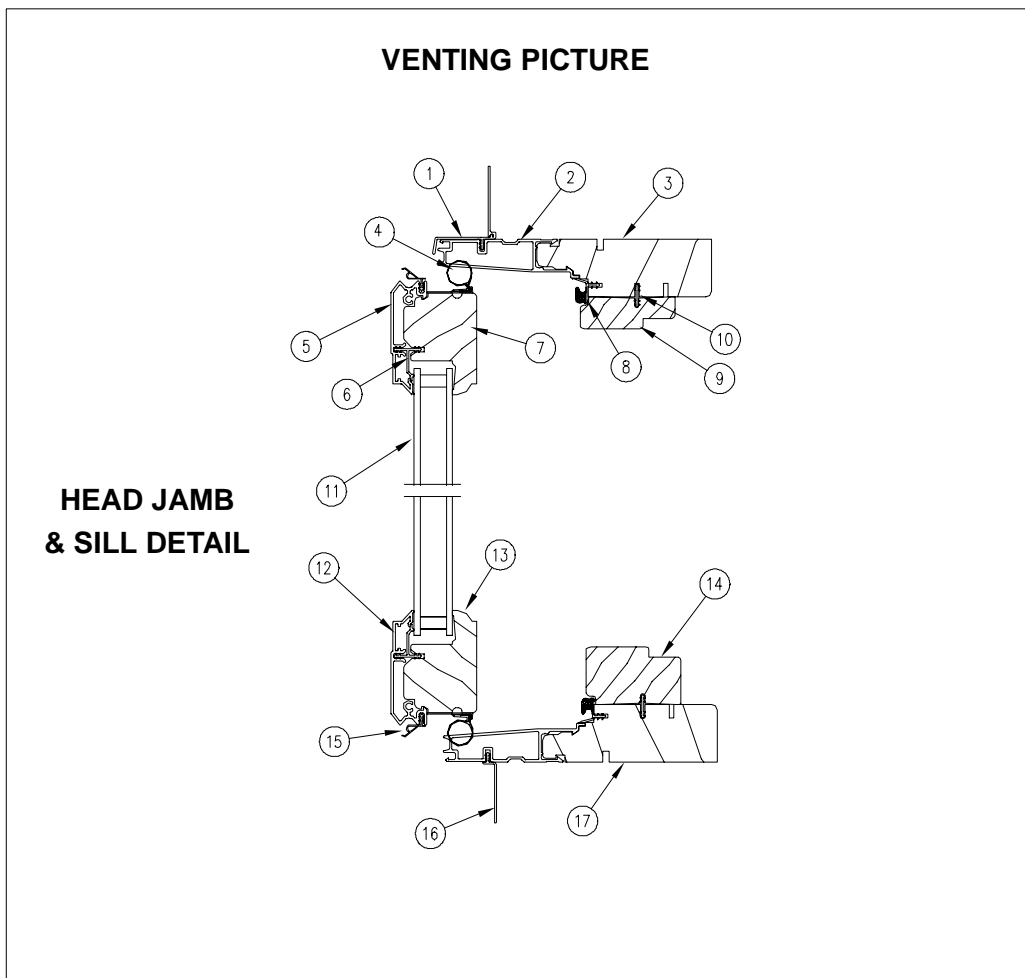


W7016 - Head Jamb Stop Operator

**TO ORDER REPLACEMENT WOOD PARTS**

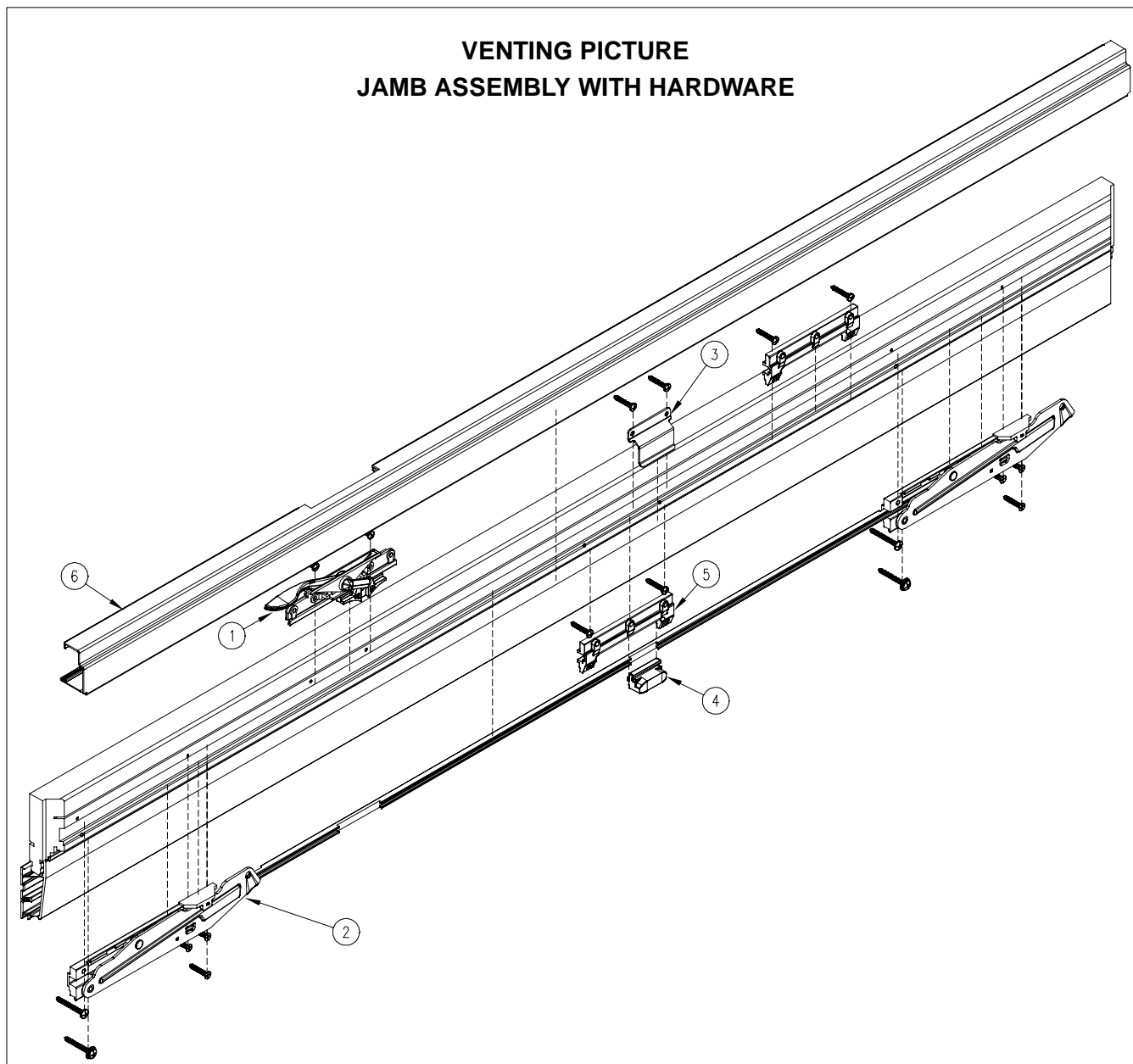
When ordering replacement wood parts specify:

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



NOTE: Not to scale; specifications subject to change without notice.

- |                              |                              |                      |
|------------------------------|------------------------------|----------------------|
| 1. Head Jamb Nailing Fin     | 9. Head Jamb Stop, W8908     | 17. Sill             |
| 2. Head Jamb Cladding        | 10. Connecting Barb          | 18. Jamb Nailing Fin |
| 3. Head Jamb                 | 11. Insulated Glass          | 19. Jamb             |
| 4. Screen Bulb Assembly      | 12. Bottom Rail Cladding     | 20. Side Stop, V1345 |
| 5. Top Rail Cladding         | 13. Bottom Rail              | 21. Stile            |
| 6. Sash Cladding Connector   | 14. Sill Stop, W9482         | 22. Stile Cladding   |
| 7. Top Rail                  | 15. Sash Weather Strip, V195 | 23. Jamb Cladding    |
| 8. Frame Weather Strip, V138 | 16. Sill Nailing Fin         |                      |



NOTE: Not to scale; specifications subject to change without notice.

- |                        |                          |
|------------------------|--------------------------|
| 1. Handle Assembly     | 4. Cam                   |
| 2. Hardware Assembly   | 5. Cam Retainer          |
| 3. Secondary Lock Clip | 6. Jamb Side Stop, V1345 |

**Hardware listed is per side of unit (for special sizes go to next larger size).**

**CN36 and CN40 Heights**

All Widths - No Cam, Keeper, Retainer or Lock Clip

**CN48 Heights**

All Widths - One Retainer (no Cam, Keeper, or Lock Clip)

**CN56, CN60, CN64 Heights**

Under CN40 Widths - One Retainer (no Cam, Keeper, or Lock Clip)

CN40 Width and Greater - One Retainers, One Cam , One Keeper and One Lock Clip

**CN72 Heights**

Under CN40 Widths - Two Retainers (no Cam, Keeper, or Lock Clip)

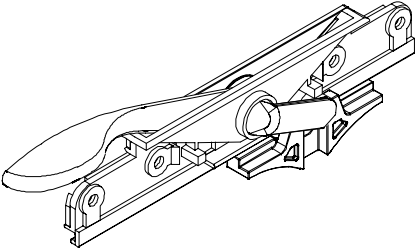
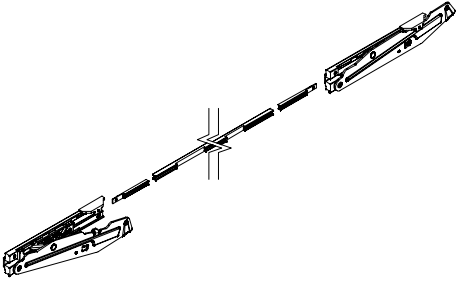
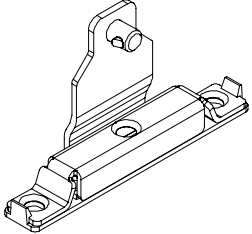
CN40 Width and Greater - Two Retainers, One Cam, One Keeper and One Lock Clip

# REPLACEMENT PARTS

When ordering replacement Venting Picture parts specify:

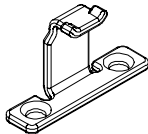
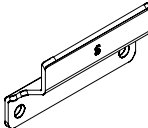
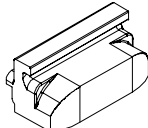
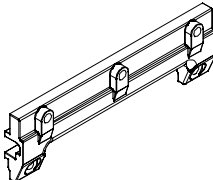
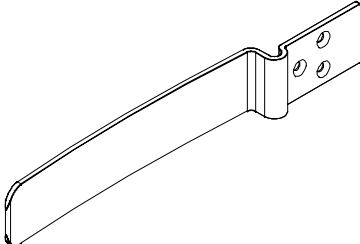
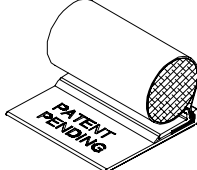
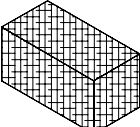
1. type of unit;
2. part number;
3. description.

NOTE: Handing of parts is viewed from the exterior.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
 <p style="text-align: center;">RH Shown</p>	<p><b>Handle Assembly</b>  <i>Right Hand or Left Hand Assembly</i>                      Includes:                      1 - Handle Assembly                      2 - #8 x 1" Phillips pan head self-tapping screws (11800800)</p>	<p><b>Right Hand</b>                      WH 10898200                      BZ 10898201                      TP 10898202                      BS 10898204                      AB 10898206                      SC 10898205                      SN 10898208                      ORBZ 10898207</p>	
		<p><b>Left Hand</b>                      WH 10898209                      BZ 10898210                      TP 10898211                      BS 10898212                      AB 10898214                      SC 10898213                      SN 10898216                      ORBZ 10898215</p>	
 <p style="text-align: center;">RH Shown</p>	<p><b>Hardware Assembly</b>                      Includes:                      1 - Hardware Assembly                      2 - #8-18 x 1 1/2" Phillips truss head self-tapping screws (11808150)                      2 - #8-18 x 1 1/2" Phillips truss head self-tapping screws with shims washers (11808151)                      6 - #7HD-#8-18 x 1" Phillips flat head self-tapping screws (11800771)</p>	<p><b>Right Hand</b>                      CN 36 10810501                      CN 40 10810502                      CN 48 10810503                      CN 56 10810504                      CN 60 10810505                      CN 64 10810506                      CN 72 10810507</p>	
		<p><b>Left Hand</b>                      CN 36 10810508                      CN 40 10810509                      CN 48 10810510                      CN 56 10810511                      CN 60 10810512                      CN 64 10810513                      CN 72 10810514</p>	
	<p><b>Sash Bracket</b>                      Includes:                      1 - Sash Bracket                      3 - #8-18 x 1 1/4" Phillips flat head self-tapping screws (11808118)</p>		<p style="text-align: center;">10810012</p>

When ordering replacement Venting Picture parts specify:

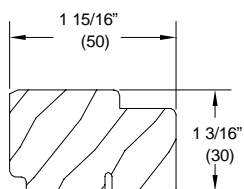
1. type of unit;
2. part number;
3. description.

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
	<p><b>Keeper Kit</b> For Venting Picture <i>Includes:</i> 2 - Keepers (10814816) 2 - #8-18 x 1 1/4" Phillips flat head self-tapping screws (11808118)</p>		11860701
	<p><b>Secondary Lock Clip</b> <i>Includes:</i> 2 - #8-18 x 1 1/2" Phillips truss head self-tapping screws (11808150)</p>		105551
	<p><b>Cam</b></p>		10811002
	<p><b>Retainer</b> <i>Includes:</i> 2 - #8 x 1" Phillips pan head self-tapping screws (11800800)</p>		10811003
	<p><b>Sash Removal / Installation Tool</b></p>		11860024
	<p><b>Screen Bulb Assembly</b> Length 120"</p>		11850030
	<p><b>Screen Corner Key Kit</b> <i>Includes:</i> 4 - flexible screen bulb corner keys 1 - Installation instruction</p>		11860702

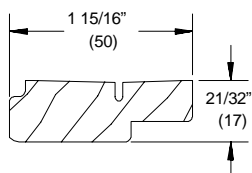
## CURRENT REPLACEMENT WOOD AND VINYL PARTS

	Venting Picture
Head Jamb Stop	W8908
Side Stop	V1345
Sill Stop	W9482

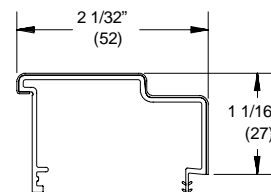
NOTE: All replacement interior wood parts are supplied with connecting barb (where applicable).



W9482 - Sill Stop  
32255637 - CN36  
32255641 - CN40  
32255649 - CN48  
32255657 - CN56  
32255661 - CN60  
32255665 - CN64  
32255673 - CN72



W8908 - Head Jamb Stop



V1345 - Side Stop

## TO ORDER REPLACEMENT PARTS

When ordering replacement parts, specify:

1. profile number or part number where applicable;
2. call number or rough opening;
3. finish;
4. RH or LH.

## ORDERING REPLACEMENT SASH FOR VENTING PICTURE UNITS

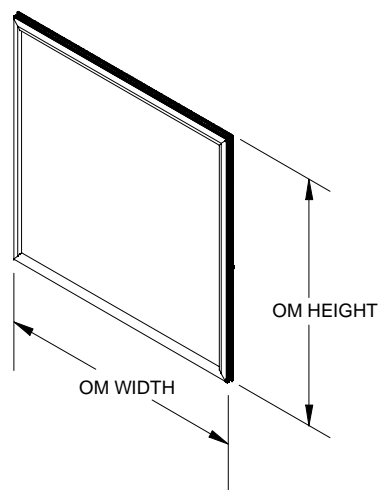
When ordering replacement sash specify:

1. size (call number or OM of sash);
2. glazing (3/4" or 1");
3. finish.

NOTE: Sash will come with screen bulb and flexible corner keys. Brackets need to be ordered separately.

Sash Outside Measurement

Exterior View





## ORDERING REPLACEMENT WEATHER STRIP FOR CASEMASTER UNITS

When ordering replacement weather strip specify:

1. quantity;
2. color;
3. part number;
4. description.

## VENTING PICTURE WEATHER STRIP

ILLUSTRATION <i>NOT TO SCALE</i>	DESCRIPTION	LENGTH	PART NUMBER
	<b>Flex-Leg Weather Strip, Sash</b> V195 Color: Beige	150" (3810)	15708399
	<b>Foam Weather Strip, Frame</b> V138 Color: Beige	150" (3810)	15910299

VENTING PICTURE  
**OBSOLETE PARTS**

ILLUSTRATION NOT TO SCALE	DESCRIPTION	OPER./ COLOR	PART NO.
 <p>RH Shown</p>	<p><b>Handle Assembly</b>                      Right Hand or Left Hand Assembly  <i>Includes:</i>                      1 - Handle Assembly                      2 - #8 x 1" Phillips pan head self-tapping screws (11800800)</p>	<p><b><u>Right Hand</u></b> PC</p> <p><b><u>Left Hand</u></b> PC</p>	<p>10898218</p> <p>10898217</p>