

# INTRODUCTION

## Table of Contents

	<b>PAGE</b>
Manual History .....	2
Manual Objectives .....	4
Intended Audience .....	4
Sources of Additional Help .....	4
Other Important Sources of Information .....	4
How to Use This Manual .....	5
How to Submit Suggestions .....	5
Ordering Information .....	5
Freight .....	5
Marvin Order Entry (MOE) .....	5
Pricing .....	5
Additional Copies .....	5
Trademark Information .....	5
Current Integrity Publications .....	6
Product Abbreviations .....	7
<b>Service</b>	
General Service Information .....	9
Repairing Ultrex .....	9
Ultrex Refinishing Information .....	10
Cleaning Ultrex .....	11
Repairing and Repainting Integrity Interior Finish .....	11

### **Binder Information**

**This binder contains a locking system that is activated by pressing the snap lock tabs inward (tabs are located at the top and bottom of the binder near each end of the 3-ring assembly). Moving the snap lock tabs outward unlocks the assembly and allows the binder to be opened.**

On the bottom left hand corner of each page is a version number that will help the user identify when a change has been made to the information contained on the page. The most current version of the manual can be found at [www.integritywindows.com](http://www.integritywindows.com). The chart below details when the paper copy of the revised manual was printed along with the corresponding version number.

VERSION	PRINT DATE	NOTES/MEMO TOPIC
1999.1	November 1999	Original Release
2000.1	July 2000	General Update
2000.1	January 2001	General Update
2001.2	March 2001	Stone White interior finish added
2001.3	July 2001	General Update
2001.4	December 2001	General Update
2002.1	March 2002	Added IRTM
2002.2	June 2002	General Update
2002.3	12/2002	Added Accessories chapter
2003.1	March 2003	Added Sliding French Door chapter
2003.2	September 2003	General Update
2003.3	November 2003	Added ISFD 8-0 sizes
2004.1	March 2004	Door resizing and Pebble GBG
2004.2	July 2004	General Update
2004.3	December 2004	General Update
2005.1	January 2005	General Update
2005.2	September 2005	General Update
2006.1	January 2006	Double Hung and Glider Redesign
2006.2	April 2006	All Ultrex line introduced with Single Hung, Direct Glaze Polygon, and Accessories.
2006.3	November 2006	All Ultrex Glider introduced.
2007.1	March 2007	Bronze exteriors, All Ultrex Double Hung and Wood Ultrex Outswing French Door introduced.
2007.2	October 2007	Casement and Awning Redesign.
2007.3	November 2007	Evergreen exteriors introduced.
2008.1	April 2008	Cashmere exteriors and All Ultrex Sliding Patio Door introduced.
2008.2	October 2008	Impact products added. New hardware colors added for windows. CN 28 width and 54 height on All-Ultrex Double Hung. Equal sash on 68 height for Traditional Double Hung. Added wood screen option to Wood Ultrex Casement.
2009.1	March 2009	Impact Products Phase II, Ebony exteriors introduced, AU frame change, Additional sizes added to Round Tops.
2009.2	July 2009	ISPD handle redesign, AU custom sizes, LoE <sup>3</sup> 366™ glass option, IOFD 2-8 door size added.
2010.1	February 2010	Introduced: All Ultrex Casemaster, All Ultrex Awning product. Additional hardware finishes for All Ultrex product –Oil Rubbed Bronze, Satin Nickel PVD; Brass PVD –, new style handle for All Ultrex Sliding Patio Door, new grille tack and installation tool,
2010.2	October 2010	Added ITDH size 32, Tempered Obscured glass option, AU 1” frame expander, AU interior frame filler, Impact mull option

VERSION	PRINT DATE	NOTES/MEMO TOPIC
2011.1	March 2011	Introduction of Keyed Handle for SPD, added 6-5 parts for SFD, introduced coastal hardware option for IFCA and IFAWN, introduced IFRT, introduced keyed handle option for IFSPD.
2011.2	June 2011	Introduction of Tempered Obscure glass option, LoE 180™ glass option, Addition of CN41 IAWN/ICAP width and CN44 Double Hung, introduction of All Ultrex® Flush Fin.
2012.1	August 2012	August 27, 2012: Introduced Wood-Ultrex Ebony exterior and exterior casing options.
2012.1	October 2012	October 29, 2012: Introduced Wood-Ultrex Expanded Sizes and Mulls.
2013.1	February 2013	February 25, 2013: Introduced Tripane glass option utilizing a Casement Frame.
2013.1	April 2013	April 29, 2013: Introduced the All Ultrex Round Top (IFRT) and added special sizes to all the All Ultrex Round Top. (ISPD) Introduced special sizes 2-panel in 1/64" increments from the smallest size to the largest size within the current matrix.
2013.1	August 2013	August 26, 2013: Added new cam lock, keeper and forced entry clip. Additional CN 60 and 66 heights added to the Cottage offerings.
2013.1	October 2013	October 28, 2013: Discontinued the optional vent stop option for limiting sash travel and venting. Added Window Opening Control Device (WOCD).
2013.1	December 2013	December 16, 2013: Introduced special sizes on Impact Products. Also introduced the Insert Double Hung (ITIDH). The ITIDH is available in special sizes in increments of 1/64".
2013.1	April 2014	April 28, 2014: Introduced Wood Ultrex Impact IZ3 Round Tops. New door hardware options; keyed alike handles and split finish handles are now available for all Integrity Doors. Also introduced Special Size Wood Ultrex Inswing French, Outswing French and Sliding Patio Doors.
2014.1	June 2014	June 23, 2014: Introduced the Special Sized and Four Panel Wood Ultrex Sliding French Door. Discontinued current 3.5" flat casing profile (F9106), the updated flat casing profile that will be used is F9108.
2014.1	August 2014	August 25, 2014: Introduced Insert Wood Ultrex Casement and Awning. Added Interior Bronze GBG color.

## INTRODUCTION TO THIS MANUAL

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### Manual Objectives

Use of this manual will better enable you to:

- reduce customer service costs
- determine and select parts and pieces

### Intended Audience

This manual is primarily intended for people who:

- provide service to customers
- order replacement parts and pieces
- need further product knowledge

This manual may be of special interest to:

- training managers
- direct order entry personnel
- distributor personnel
- dealers
- anyone who services Integrity products

### Pricing

Pricing information is included in the master parts list online. Prices are subject to change without notice.

### Sources of Additional Help

Questions regarding Integrity products can be addressed to the following:

Your Distributor \_\_\_\_\_

***The online version of this document is the document of record and will be the most current version. Specification and technical data are subject to change without notice.***

This manual is designed to make Integrity replacement part information easy to find and utilize. Used in conjunction with the Architectural Detail Manual and the Price Guide, it will provide a library of information on Integrity products.

Each chapter of the parts manual has a Table of Contents. The line entries are linked to that specific page for assistance in locating necessary information for component replacement.

### **How to Submit Suggestions**

Comments or suggestions about this publication can be directed to: Technical Publications, Marvin Windows and Doors, P.O. Box 100, Warroad, MN 56763 or call (218) 386-1430 or 1-800-346-5044.

### **Ordering Information**

#### **Freight**

F.O.B. Factory. A customer may request any service offered by U.P.S., U.S. Postal Service, or Federal Express, however, the customer will be charged for actual shipping costs. In the event Integrity is providing the replacement parts, Integrity will determine which method of shipping is most appropriate to meet the customer's needs.

#### **Marvin Order Entry (MOE)**

MOE personnel may enter non-warranty replacement parts and pieces by referencing the part or profile number and the description.

#### **Pricing**

Refer to OMS for replacement part pricing or the master parts list located online.

#### **Additional Copies**

For additional copies of the Integrity Parts and Service Manual, enter the part number 11708407 into the ordering program.

#### **Trademark Information**

The following trademarks are referenced in this manual:

Ultrex is a registered trademark of Marvin Windows and Doors.

Dow Corning 1199 Silicone Glazing Sealant is a registered trademark of the Dow Corning Company.

PrepRite, ProBlock, and Classic 99 are trademarks of The Sherwin-Williams Company.

**Current Integrity Publications**

INSTRUCTIONS	PART NUMBER
Wood/Ultrex Window Installation Instructions	19970163
Wood/Ultrex Bow/Bay Installation Instructions	19970617
Wood/Ultrex Casement Bow/Bay Mulling	11708512
Wood/Ultrex Casement/Awning Mullion Kit Instructions	19970053
Wood/Ultrex Double Hung Bay Mulling	11708511
Wood/Ultrex Double Hung/Glider Mullion Kit Instructions	19970052
Wood/Ultrex Sliding Patio Door Installation Instructions	11708506
Wood/Ultrex Sliding Patio Door Mullion Instructions	19970051
Wood/Ultrex Round Top/Polygon Installation Instructions	11708521
Wood/Ultrex Round Top by Marvin Installation Instructions	11701003
Wood/Ultrex Structural Bracket Instructions	11708423
Wood/Ultrex Sliding French Door Installation Instructions	19972160
Wood/Ultrex Inswing French Door Installation Instructions	11708518
Wood/Ultrex Inswing French Door Mullion Kit Instructions	19970050
Wood/Ultrex Outswing French Door Installation Instructions	19972129
Wood/Ultrex Swinging Screen Installation	11708580
Wood/Ultrex Field Applied Jamb Extension	19970200
All Ultrex Window Installation Instructions	19970123
All Ultrex Mulling Instructions	19970124
All Ultrex Field Applied Jamb Extension	19970087
ICA/AWN Impact Mull Kit	19970316
IDH Impact Mull Kit	19970317
ISFD Impact Mull Kit	19970318

## PRODUCT ABBREVIATIONS

Following are common abbreviations used by Integrity throughout their literature.

ACT	Active	EG	Evergreen	IIFD	Integrity Inswing French Door
ADH	Adhesive	EGR	Egress	ILCK	Interlock
AF	Almond Frost	EXC	Exclusive	INACT	Inactive
AR	Arctic White	EXP	Expander	INS	Insulating
ARG	Argon	EXT	Exterior	INSRT	Insert
ASSY	Assembly	EXTR	Extrusion	INT	Interior
AST	Astragal			IOFD	Integrity Outswing French Door
		F	Fiberglass		
BA	Bare	FAST	Fastener	IPD	Integrity Patio Door
BAL	Balance	FDGP	Fiberglass Direct Glaze Polygon	IPPDG	Integrity Patio Door Direct Glaze
BC	Bottom Cottage				
BDL	Bundling	FDH	Fiberglass Double Hung	IQCIR	Integrity Quarter Round
BEV	Bevel	FGL	Fiberglass Glider	IRT	Integrity Round Top
BG	Beige	FGLTS	Fiberglass Glider Triple Sash	IRTDR	Integrity Round Top Door
BK	Black			IRTM	Marvin Round Top made for Integrity
BN	Brown	FILL	Filler	ISDDG	Integrity Swinging Door Direct Glaze
BRKT	Bracket	FIN	Finish	ISFD	Integrity Sliding French Door
BS	Brass	FLASH	Flashing	ISPD	Integrity Sliding Patio Door
BTM	Bottom	FLIHDL	Flip Handle		
BULLN	Bullnose	FLIM	Friction Limiter	ISSTP	Inside Stop
BULLNS	Bullnose Stop	FLNG	Flange	ITRIM	Interior Trim
BUMP	Bumper	FRP	Fiberglass Reinforced Plastic		
BZ	Bronze	FSH	Fiberglass Single Hung	JB	Jamb
		FWALL	Flat Wall	JBLNR	Jamb Liner
C	Cottage			JBSTP	Jamb Stop
CH	Charcoal	GBAR	Guide Bar	JE	Jamb Extension
CHNL	Channel	GBG	Grilles-between-the-glass		
CIRHDL	Circular Handle			KA	Keyed Alike
CKRL	Check Rail	GL	Glass	KEEP	Keeper
CL	Clear	GLAZ	Glazing (or Glaze, Glazed)	KEY	Keyed
CLIP	Clip	GLBD	Glazing Bead		
CN	Call Number	GRIL	Grille	L	Left
CNRDRV	Corner Drive	GROM	Grommet	LEV	Lever
CNRKEY	Corner Key	GS	Glass Size	LEX	Lexan
COMP	Complete	GSKT	Gasket	LF	Lineal Foot
CONN	Connector, Connect(ing, ed, s, ion)	GT	Gold Tone	LGTH	Length
		GY	Gray	LH	Left Hand
COTT	Cottage			LIN	Lineal
COV	Cover	H	Height	LL-UR	Lower Left – Upper Right
CRKHDL	Crank Handle	HCLIP	Hardware Clip	LO	Lever Operator
CS	Cashmere	HCOV	Hardware Cover	LNR	Liner
CSECT	Cross Section	HD	Head, Heavy Duty	LOCK	Lock
CSG	Casing	HDJB	Head Jamb	LS	Lever Set
CTR	Center	HDL	Handle		
CTRSW	Center Swing	HDLNR	Head Jamb Liner	MCLIP	Masonry Clip
CTUBE	Capillary Tube	HDWE	Hardware	MISC	Miscellaneous
		HGE	Hinge	ML	Multi-lock
DB	Dead Bolt	HGEARM	Hinge Arm	MM	Millimeter
DCAP	Drip Cap			MO	Masonry Opening
DES	Designer	I	Inswing	MOLD	Moulding
DESC	Description	ICA	Integrity Casement	MP	Multi-point
DG	Direct Glaze	ICADG	Integrity Casement Direct Glaze	MSRY	Masonry
DIM	Dimension	ICATR	Integrity Casement Transom	MTHDW	Mounting Hardware
DLO	Daylight Opening				
DRSWP	Door Sweep	IDH	Integrity Double Hung	NA	Not Available, Not Applicable
DSP	Display	IDHTR	Integrity Double Hung Transom	NFIN	Nailing Fin
DUM	Dummy			NRP	Non-removable Pin
DUSTB	Dust Block	IG	Insulating Glass		
DUSTP	Dust Plug	IGL	Integrity Glider		
EB	Ebony				

## INTEGRITY ABBREVIATIONS

Following are common abbreviations used by Integrity throughout their literature.

O	Stationary	ROSE	Rosette	SSILL	Subsill
OMF	Outside Measurement of Frame	ROTO	Roto Gear	ST	Stationary
OMS	Outside Measurement of Sash	RP	Removable Pin	STD	Standard
OPCOV	Operator Cover	SALCK	Sash Lock	STO	Stationary Outswing
OPER	Operator (or Operating, Operation)	SALFT	Sash Lift	STP	Stop
ORBZ	Oil Rubbed Bronze	SAPVT	Sash Pivot	STRHDL	Straight Handle
OS	Outside	SASH	Sash	STRK	Strike
OM	Outside Measurement	SASTAY	Sash Stay Guide	STRKPL	Strike Plate
PAN	Panel	SASTP	Sash Stop	STRL	Structural
PASS	Passage	SATRK	Sash Track	STRLBRKT	Structural Bracket
PB	Pebble	SCR	Screen	SU	Setup
PH	Phillips Head	SCRW	Screw(s)	SW	Stone White
PICT	Picture/View	SCRCH	Screen Channel	TDH	TRDL Double Hung
PKG	Package	SCRCHBL	Screen Channel Block	TDHP	TRDL Double Hung Picture
PLT	Plate (Plated)	SCRCL	Screen Cloth	TDHTR	TRDL Double Hung Transom
PO	Passage Only	SDJB	Side Jamb	TGL	TRDL Glider
PR	Pair	SDL	Simulated Divided Lite	TGLTS	TRDL Glider Triple Sash
PRMY	Primary	SDLT	Sidelite	THRES	Threshold
PTSTP	Part Stop	SGL	Single	TRAN	Transom
R	Right	STI	Stationary Inswing	UL-LR	Upper Left-Lower Right
RCEP	Receptacle	SILCOV	Sill Cover	UR-LL	Upper Right-Lower Left
RCVR	Receiver	SILHRN	Sill Horn	VNL	Vinyl
REG	Regular	SILL	Sill	W	Wood
REM	Remote	SILLN	Sill Nosing	W/O	Without
REPL	Replacement	SILLNR	Sill Liner	WH	White
RETPL	Retainer Plate	SILTRK	Sill Track	WS	Weatherstrip
REV	Revision/Revised	SIZE	Size	X	Operator
RH	Right Hand	SLD or SB	Solid (Brass)		
RO	Rough Opening	SNUB	Snubber		
ROLL	Roller	SO	Sash Opening		
		SPC	Spacer		
		SPLI	Spline		
		SQFT	Square Foot		
		SS	Single Strength/ Stainless Steel		



**ATTENTION:**

- Read all instructions thoroughly before attempting any procedure.
- 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.
- Parts listed in any of the following procedures may or may not be needed depending on the condition of original parts. Refer to the preceding part identification pages for additional information.
- Refer to the parts pages for ordering specific parts.
- Changing sash operation (from stationary to operating or sash handing) is not recommended.
- Casement sash are not reglazable.
- Replacement WOOD-ULTREX casement operator sash are marked for hardware application (hardware is not included).
- Replacement ALL ULTREX casement operator sash are sent with all operating hardware included.
- If replacement of the frame snubber is necessary, contact your Integrity representative.
- If a cordless screwdriver is used in any of the following procedures be careful not to over-tighten any screws during reassembly.
- Replacement parts are supplied with screws when required.

**REPAIRING ULTREX**

You will need to supply:

- Utility knife
- Putty knife
- Epoxy putty
- Quality exterior grade primer
- 120–150 grit sandpaper
- 320–400 grit sandpaper

*NOTE: Consult your Integrity representative for more details on a recommended epoxy putty.*

1. Using a utility knife, carefully cut around the damaged Ultrex area to remove any jagged edges or loose fibers.
2. Follow manufacturers instructions for mixing/blending of epoxy. Fill the damaged area thoroughly by pressing epoxy in with a putty knife and remove excess.
3. Once the epoxy has set and cured, sand the repaired area with 120–150 grit sandpaper until the desired profile/depth has been achieved. Finish sand with 320–400 grit sandpaper.
4. Lightly sand the surrounding area to remove the factory finish with 320–400 grit sandpaper. Coat the repaired and surrounding area with a quality primer per epoxy manufacturers instructions. When primer has dried and cured cover with a quality exterior grade acrylic latex coating (See Painting Ultrex).

**ULTREX REFINISHING INFORMATION**

**Painting Ultrex**

You will need to supply:

- |                        |  |
|------------------------|--|
| 320–400 Grit sandpaper | Quality exterior grade acrylic latex paint |
| Foam paint brush       | Masking tape                               |

1. Thoroughly sand the factory finish with 320–400 grit sandpaper.
2. Wash the surface with water and detergent to remove contaminants, rinse with clear water and dry thoroughly.
3. Mask any window components that will not be painted.
4. Coat the Ultrex with a quality exterior grade acrylic latex paint.
5. Acrylic latex products gain full adhesion after seven to ten days cure.
6. Spot test a small area after seven to ten days to verify adequate surface preparation prior to finishing large areas.

*NOTE: If the finish is scratched, peeled or otherwise compromised down to the Ultrex substrate see section on repairing Ultrex.*

**Touch Up Paint**

Brush on and aerosol spray touch up paint is available for Integrity windows and doors to repair a scratch. See the accessories chapter for descriptions and parts numbers.

**Matching House Paint**

See your local paint retailer to match house or trim paint to Integrity windows and doors.

Any Sherwin Williams dealer can match the paint by using the formulas below: (tinted/gal.)

**STONE WHITE**

**Base:** Super Paint Satin Extra White (A89W1151)

**Tint:** Black (B1) 1/32 oz. + 1/128 oz.  
 Deep Gold (Y3) 1/32 oz. + 1/64 oz.

**BRONZE**

**Base:** Super Paint Satin Ultra Deep (A89T154)

**Tint:** White (W1) 8/32 oz. + 1/64 oz.  
 Black (B1) 6 oz. + 41/32 oz. + 1/128 oz.  
 Maroon (R2) 16/32 oz.  
 Deep Gold (Y3) 61/32 oz. + 1/64 oz. + 1/128 oz.

**CASHMERE**

**Base:** Super Paint Satin Extra White (A89W1151)

**Tint:** Black (B-1) 22/32 oz. + 1/128 oz.  
 Maroon (R-2) 5/32 oz. + 1/128 oz.  
 Deep Gold (Y-3) 52/32 oz. + 1/64 oz.

**ARCTIC WHITE**

**Base:** Super Paint Satin Extra White (A89W1151)

**Tint:** Blue (L-1) 1/32 oz. + 1/64 oz. + 1/128 oz.  
 Raw Umber (N-1) 2/32 oz. + 1/128 oz.  
 Magenta (R-3) 1/64 oz.

**PEBBLE**

**Base:** Super Paint Satin Extra White (A89W1151)

**Tint:** Black (B1) 2 oz. + 21/32 oz. + 1/64 oz. + 1/128 oz.  
 Maroon (R2) 18/32 oz.  
 Deep Gold (Y3) 2 oz. + 24/32 oz.

**EVERGREEN**

**Base:** Super Paint Satin Ultra Deep (A89T154)

**Tint:** White (W1) 1/64 oz. + 1/128 oz.  
 Black (B1) 2 oz. + 61/32 oz. + 1/64 oz.  
 New Green (G2) 4 oz + 54/32 oz. + 1/64 oz.  
 Deep Gold (Y3) 2 oz. + 10/32 oz. + 1/64 oz. + 1/128 oz.

**EBONY**

**Base:** Super Paint Satin Ultra Deep (A89T154)

**Tint:** Black (B1) 8 oz. + 51/32 oz. + 1/64 oz. + 1/128 oz.  
 Maroon (R2) 12/32 oz.

## **CLEANING ULTREX**

For regular cleaning and maintenance of Integrity windows and doors, non abrasive household cleaner will not harm the factory finish. Accidental wood stain can be removed safely with painters naphtha (the same solvent used for thinning stain) and is not considered a harsh chemical as some of our literature cautions.

## **REPAIRING AND REPAINTING INTEGRITY INTERIOR FINISH**

1. If necessary, repair any nail holes or cracks with Akona nail hole and crack repair supplied from Integrity (Part Number 11410012).
2. Scuff sand area with 320–400 grit sandpaper.
3. Prime area with one coat of Sherwin Williams Multi–Purpose Latex Primer B51W8020 Follow manufacturers instructions for application.
4. Topcoat area with one coat of Sherwin Williams ProClassic Interior Acrylic Enamel Satin Extra White Base (B20W1151) paint. Follow manufacturer’s instructions for application. The paint is listed in Sherwin Williams national data bank. The color name is listed as Integrity Interior White. The formula for the topcoat is:

N1      2/32+1/64 oz.