INTRODUCTION
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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.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^3 366™ 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, LoĒ 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.

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 MQS 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.
LoĒ-180 ™ and LoĒ^2-272 ™ LoĒ^3 366 ™ are a trademark of Cardinal Glass 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
ADH	Adhesive
AF	Almond Frost
AR	Arctic White
ARG	Argon
ASSY	Assembly
AST	Astragal
BA	Bare
BAL	Balance
BC	Bottom Cottage
BDL	Bundling
BEV	Bevel
BG	Beige
BK	Black
BN	Brown
BRKT	Bracket
BS	Brass
BTM	Bottom
BULLN	Bullnose
BULLNS	Bullnose Stop
BUMP	Bumper
BZ	Bronze
C	Cottage
CH	Charcoal
CHNL	Channel
CIRHDL	Circular Handle
CKRL	Check Rail
CL	Clear
CLIP	Clip
CN	Call Number
CNRDRV	Corner Drive
CNRKEY	Corner Key
COMP	Complete
CONN	Connector, Connect(ing, ed, s, ion)
COTT	Cottage
COV	Cover
CRKHDL	Crank Handle
CS	Cashmere
CSECT	Cross Section
CSG	Casing
CTR	Center
CTRSW	Center Swing
CTUBE	Capillary Tube
DB	Dead Bolt
DCAP	Drip Cap
DES	Designer
DESC	Description
DG	Direct Glaze
DIM	Dimension
DLO	Daylight Opening
DRSWP	Door Sweep
DSP	Display
DUM	Dummy
DUSTB	Dust Block
DUSTP	Dust Plug
EB	Ebony
EG	Evergreen
EGR	Egress
EXC	Exclusive
EXP	Expander
EXT	Exterior
EXTR	Extrusion
F	Fiberglass
FAST	Fastener
FDGP	Fiberglass Direct Glaze Polygon
FDH	Fiberglass Double Hung
FGL	Fiberglass Glider
FGLTS	Fiberglass Glider Triple Sash
FILL	Filler
FIN	Finish
FLASH	Flashing
FLIHDL	Flip Handle
FLIM	Friction Limiter
FLNG	Flange
FRP	Fiberglass Reinforced Plastic
FSH	Fiberglass Single Hung
FWALL	Flat Wall
GBAR	Guide Bar
GBG	Grilles–between–the–glass
GL	Glass
GLAZ	Glazing (or Glaze, Glazed)
GLBD	Glazing Bead
GRIL	Grille
GROM	Grommet
GS	Glass Size
GSKT	Gasket
GT	Gold Tone
GY	Gray
H	Height
HCLIP	Hardware Clip
HCOV	Hardware Cover
HD	Head, Heavy Duty
HDJB	Head Jamb
HDL	Handle
HDLNR	Head Jamb Liner
HDWE	Hardware
HGE	Hinge
HGEARM	Hinge Arm
I	Inswing
ICA	Integrity Casement
ICADG	Integrity Casement Direct Glaze
ICATR	Integrity Casement Transom
IDH	Integrity Double Hung
IDHTR	Integrity Double Hung Transom
IG	Insulating Glass
IGL	Integrity Glider
IIFD	Integrity Inswing French Door
ILCK	Interlock
INACT	Inactive
INS	Insulating
INSRT	Insert
INT	Interior
IOFD	Integrity Outswing French Door
IPD	Integrity Patio Door
IPPDG	Integrity Patio Door Direct Glaze
IQCIR	Integrity Quarter Round
IRT	Integrity Round Top
IRTDR	Integrity Round Top Door
IRTM	Marvin Round Top made for Integrity
ISDDG	Integrity Swinging Door Direct Glaze
ISFD	Integrity Sliding French Door
ISPD	Integrity Sliding Patio Door
ISSTP	Inside Stop
ITRIM	Interior Trim
JB	Jamb
JBLNR	Jamb Liner
JBSTP	Jamb Stop
JE	Jamb Extension
KA	Keyed Alike
KEEP	Keeper
KEY	Keyed
L	Left
LEV	Lever
LEX	Lexan
LF	Lineal Foot
LGTH	Length
LH	Left Hand
LIN	Lineal
LL–UR	Lower Left – Upper Right
LO	Lever Operator
LNR	Liner
LOCK	Lock
LS	Lever Set
MCLIP	Masonry Clip
MISC	Miscellaneous
ML	Multi–lock
MM	Millimeter
MO	Masonry Opening
MOLD	Moulding
MP	Multi–point
MSRY	Masonry
MTHDW	Mounting Hardware
NA	Not Available, Not Applicable
NFIN	Nailing Fin
NRP	Non–removable Pin

INTEGRITY ABBREVIATIONS

Following are common abbreviations used by Integrity throughout their literature.

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

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.