Hardware

Before you begin

These instruction installations have been developed based on the optimal assembly procedure not taking product codes into account. As a result, the hardware list below is an accumulative list of all items required and not all the hardware items will be reacquired for every build. For a detailed listing of hardware by product code, see the "Hardware list by product code" table on the next page.

All installation instructions in this document take the following assumption into consideration. For any applications where these assumptions are not true, it is recommended that you speak to your Knoll representative for assistance.

1. Depth of transaction tops are 15 inches.
2. For safety, it is recommended that mitered transaction tops have a 1 inch radius on the outside corner.
3. AutoStrada style aluminum end and top trims are being used.

Knoll does not supply fasteners for applications where it may be necessary or possible to use fasteners to secure transaction tops. Since the material of choice typically determines the fastener required, the end user is responsible for providing appropriate fasteners.
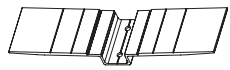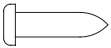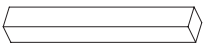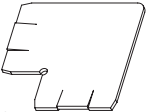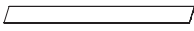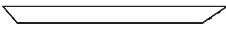
For Applications where the transaction top will not or cannot to be fastened, the material of choice may require bumpers or double-sided tape to secure the transaction tops. As with the fastener issue described above, Knoll does not supply the bumpers or double-sided tape due to the infinite material options available that can affect the type of bumper or tape required.

For applications where a transaction top exceeds 48 inches in length, it is recommended to use a third "AAMTB" bracket for additional support.

For applications where the transaction top will be next to a post, make sure the post top cap ordered takes the transaction top into account. For example, if using transaction to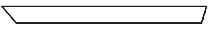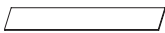p on 2 of the 3 sides of a T-post, the 1-sided top cap must be used. If using transaction tops on only 1-side of a T-post, a 2-sided top cap must be used.

For applications where the transaction top will be next to an end trim, the alignment tabs of the end trim used for top trim alignment will interfere with the assembly of transaction top. At present, there are 2 possible solutions to this issue. The first is to cut-off the tabs from the standard end trim. The second, is to order a special end trim though CPD with a special top cap that already has these tabs removed.

Transaction top covers are only required for translucent (I.E. clear glass) or semi-translucent (I.E. smoked glass) materials to cover the unfinished panel frame underneath. For any opaque (I.E. marble, back-painted glass, etc.) materials, these covers are not required.

HARDWARE LIST (NOT ALL ITEMS SHOWN ARE REQUIRED. REQUIREMENTS WILL DEPEND ON THE OPTIONS SELECTED)

A	B	C	D	E
6TR15B1 SUPPORT BRACKET	5112345 SCR,SM PNR #12x7/8 T-A ZN	5930290 TAPE,FOAM\1-SIDED 3/8x3/8 BL	6TR15B3 SPLINE (FOR COVERS)	6TR15B2 RETAINER,SPLINE

F	G	H	J	K
6TR15B4 SCR,PNP #4-40UNCx3/16 T-F ZN	P\N VARIES COVER,NO MITRES	P\N VARIES COVER,MITRED BOTH ENDS	P\N VARIES COVER,MITRED ONE END (LH SHOWN)	NOT SUPPLIED BY KNOLL FASTENER

L	M			
NOT SUPPLIED BY KNOLL BUMPER	NOT SUPPLIED BY KNOLL TAPE,DOUBLE-SIDED			

Hardware

HARDWARE LIST BY PRODUCT CODE

DESCRIPTION	PRODUCT CODE	HARDWARE INCLUDED
SUPPORT BRACKET	AAMTB	SUPPORT BRACKET <A> & FASTENER <B>
FOAM REVEAL TAPE	AAMTT	NONE
STANDARD COVERS		
STRAIGHT (NO MITRES)	AAMTC...S...	NONE
MITRED (BOTH SIDES MITRED)	AAMTC...M...	SPLINE <D>, SPLINE RETAINER <E> & FASTENER <F>
MITRED, LEFT-HAND	AAMTC...L...	NONE
MITRED, RIGHT-HAND	AAMTC...R...	SPLINE <D>, SPLINE RETAINER <E> & FASTENER <F>
HI-LO COVERS		
HI-LO ONE SIDE (NO MITRES)	AAMTCH...S...	NONE
HI-LO BOTH SIDES (NO MITRES)	AAMTCH...D...	NONE
HI-LO MITRED, LEFT-HAND	AAMTCH...L...	NONE
HI-LO MITRED, RIGHT-HAND	AAMTCH...R...	SPLINE <D>, SPLINE RETAINER <E> & FASTENER <F>

Formulas to calculate transaction top lengths

The table below shows the mathematical formulas to use in order to calculate the length of transaction tops based on the applications in which they are being used.

CALCULATING TRANSACTION TOP LENGTHS

NOTES: 1) MITERED TRANSACTION TOP CALCULATIONS ARE BASED ON THE ASSUMPTIONS THAT THEY ARE 15 INCHES IN DEPTH AND HAVE A 1 INCH RADIUS ON THE OUTSIDE CORNER OF THE MITRED END. FOR ANY TRANSACTION TOPS NOT MATCHING THESE ASSUMPTIONS, MODIFICATIONS WILL NEED TO BE MADE TO THE FORMULAS TO PROPERLY CALCULATE THE REQUIRED LENGTH.

2) THE PARAMETER "NOM" IN THE FORMULAS REPRESENTS THE NOMINAL ACCUMULATIVE LENGTH OF THE TRANSACTION TOP BASED ON THE NONIMAL PANEL WIDTHS OF THE CONFIGURATION AS DESCRIBED IN THE PRICE LIST.

APPLICATION	FORMULA	EXAMPLES (BASED ON 72" NOMINAL TRANSACTION TOPS)
STRAIGHT	NOM - 1/16"	72 - 1/16 = 71 15/16"
MITRED 1-SIDE	NOM + 8 23/32"	72 + 8 23/32 = 80 23/32"
MITRED 2-SIDES	NOM + 17 7/16"	72 + 17 7/16 = 89 7/16"
HI-LO 1-SIDE	NOM - 9/16"	72 - 9/16 = 71 7/16"
HI-LO 2-SIDES	NOM - 1 1/16"	72 - 1 1/16 = 70 15/16
HI-LO 1-SIDE\MITRED OTHER	NOM + 8 7/32"	72 + 8 7/32 = 80 7/32"

Typical Configurations

See typical illustrations 1-4

Below are 4 typical configurations to help illustrate the use of the alternative transaction top components for AutoStrada panels. All other configurations will most likely be variations based on a combination of one or more of these 4 typicals shown.
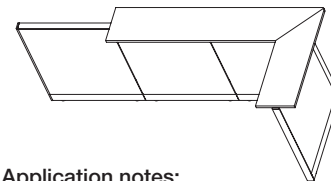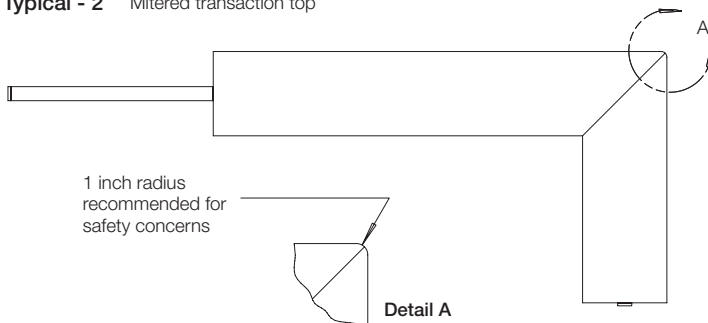
Typical - 1   Straight transaction top
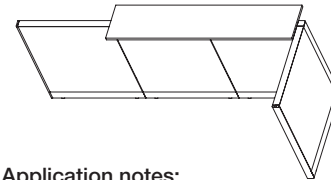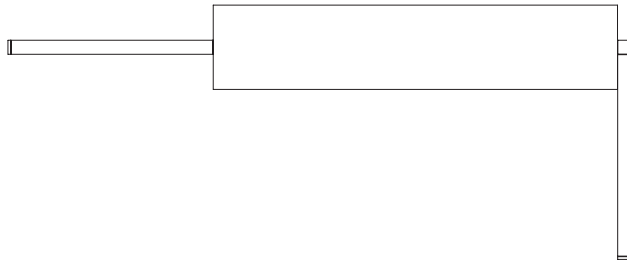
Application notes:

72" straight transaction top spanning two 36"w panels next to an L-post using a 1-sided post top cap.
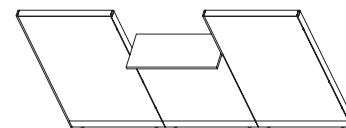
Typical - 2   Mitered transaction top

A

1 inch radius recommended for safety concerns

Detail A

Application notes:

72" left-hand mitered transaction top spanning two 36"w panels and a 36" right-hand transaction top spanning one 36" panel next to an end trim with modified top cap.
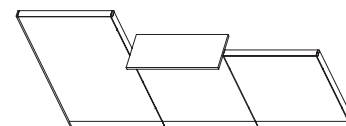
Typical - 3   Hi-Lo both sides transaction top

Application notes:

36" straight transaction top with hi-lo condition on both side spanning one 36"w panel.

Typical - 4   Hi-Lo one side transaction top

Application notes:

36" straight transaction top with hi-lo condition on left-hand side spanning one 36"w panel.

1. Preparing the Panels and Installation of The Support Brackets

Products:
AAMTB

Tools Needed
Small Saw
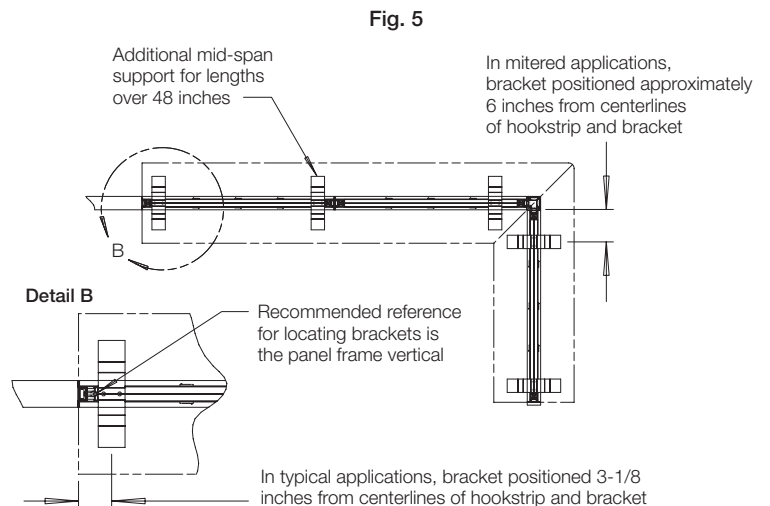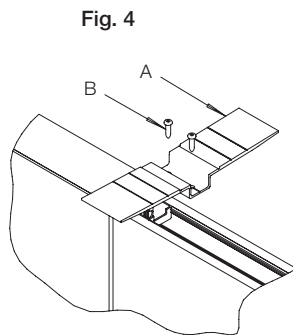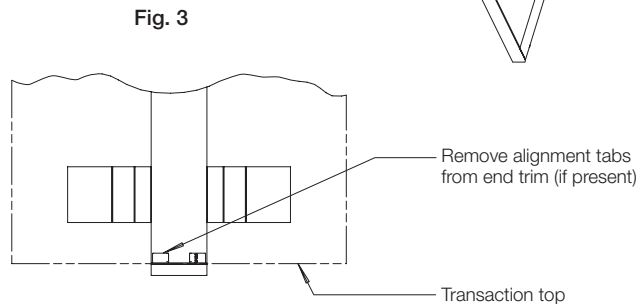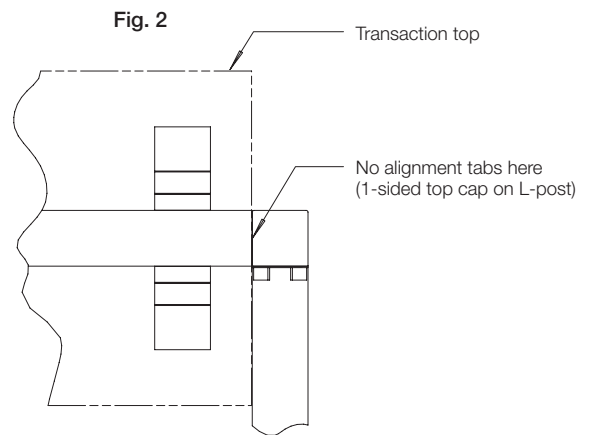Tape Measure
Square Screw Driver

See Figures 1-5
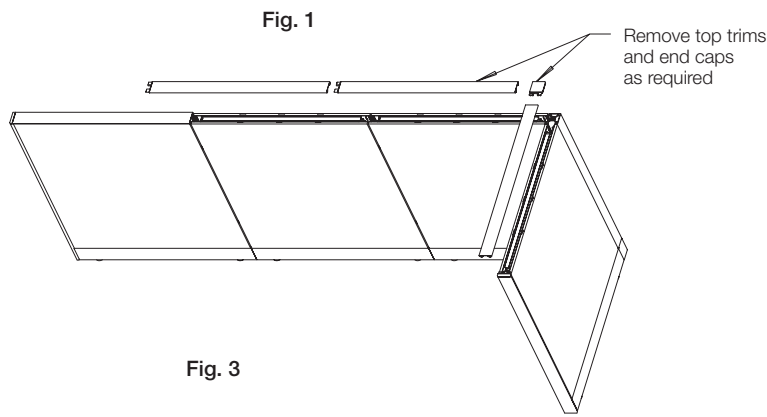
1.1. To begin, remove all panel top trims and (if applicable) post top caps where the transaction tops are to be placed.

1.2. If any transaction tops are to be mounted next to posts, make sure the top cap of the post is missing the alignment tabs wherever a transaction top is to be placed. If tabs are present, this indicates that the wrong top cap has been ordered with the post. Please speak to your Knoll representative to correct the issue.

1.3. If any transaction tops are to be mounted next to end trims and the alignment tabs of the end trim top cap are present, the tabs must be cut-away and the gasket discarded before the installation can continue. If the alignment tabs are not present, ignore this step.

1.4. Assemble support bracket (A) using fastener (B) as required. Typically the location of brackets is not critical but (for aesthetic reasons) it is recommended to use the frame vertical as a reference. The only exceptions to this recommendation are as follows....

A. When mounting mitered transaction tops. For these applications, an inset of at least 6 inches from the center lines of the hookstrip and the bracket is required to avoid any interference between the brackets.

B. When mounting transaction tops which are pre-drilled to accept mounting hardware. For these applications locate the brackets by transposing the necessary dimensions.

Note: Transaction tops up to 48" in length only require 2 brackets (one at each end) where transaction tops over 48" in length require an additional third bracket for mid-span support.

Fig. 1

Remove top trims and end caps as required

Fig. 2

Transaction top

No alignment tabs here (1-sided top cap on L-post)

Fig. 3

Remove alignment tabs from end trim (if present)

Transaction top

Fig. 4

A

B

Fig. 5

Additional mid-span support for lengths over 48 inches

In mitered applications, bracket positioned approximately 6 inches from centerlines of hookstrip and bracket

B

Detail B

Recommended reference for locating brackets is the panel frame vertical

In typical applications, bracket positioned 3-1/8 inches from centerlines of hookstrip and bracket

2. Installation of Transaction Top Covers (Optional)

Products:
AAMTC.... & AAMTCH...

Tools Needed
Tape Measure
Phillips Screw Driver

See Figures 6-7

2.1. Mitered connections

2.1.1. Slide one spline retainer (E) into the mitered end of each cover(H) and/or (J) a distance of approximately 1 inch.

2.1.2. Using spline (D), loosely join the mitered ends together.

2.1.3. Holding the correction tightly together and doing one end at a time, slide the spline retainer (E) overtop the spline (D) then using fastener (F) secure each connection.

Note: If the mitere is not held tightly together while securing the connections, unsightly gaps will appear. In these cases, loosen the fasteners (F) and try again.

2.2. Assemble all covers as required. The covers and support brackets (A) should snap together to secure the connection.
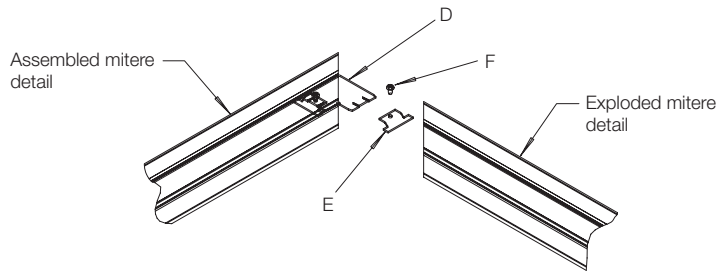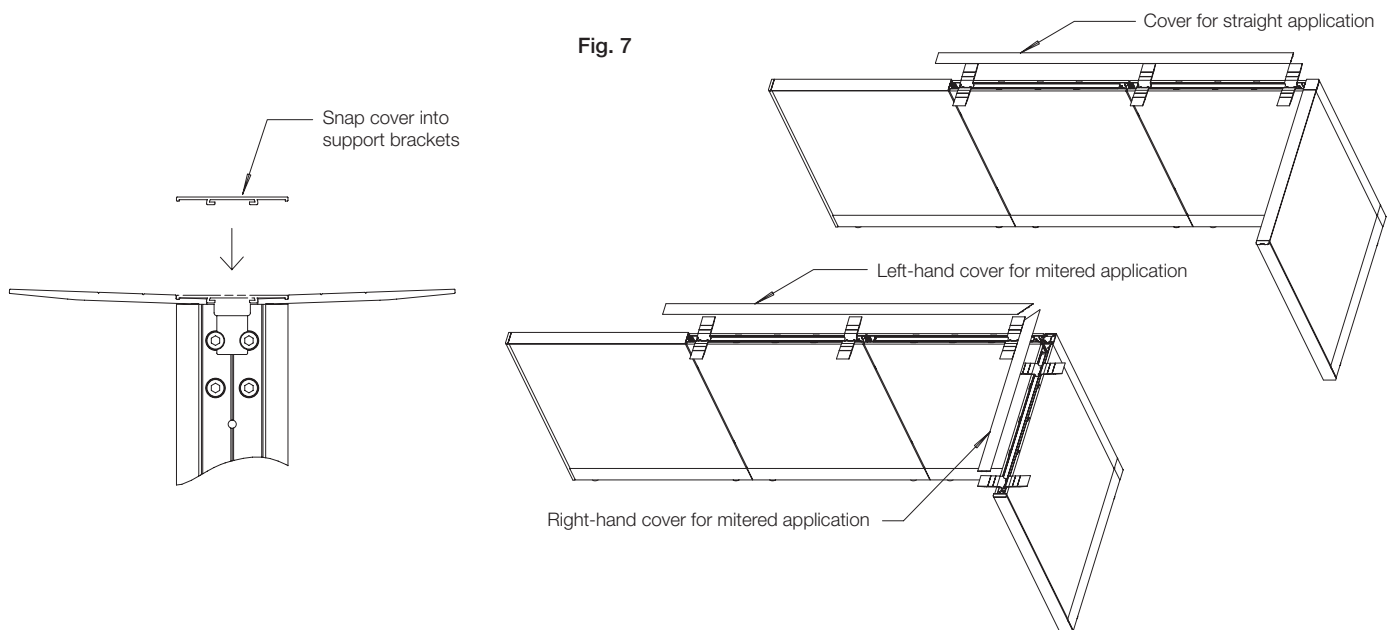
Fig. 6

Assembled mitere detail

D

F

Exploded mitere detail

E

Fig. 7

Snap cover into support brackets

Cover for straight application

Left-hand cover for mitered application

Right-hand cover for mitered application

Knoll

3. Assembly of Transaction Tops

Products:
None
(supplied by end user)

Tools Needed
Tape Measure
Drills (Size Dependent On Fastener Used By End User)
Screw Driver (Type Dependent On Fastener Used By End User)

See Figures 8-11

3.1. Application of foam tape (Optional)

    3.1.1. On opaque materials, it is recommended to use the form tape (C) to fill in any light leaks that may appear on the seam where the transaction tops rest above the panels. Centered about the centerline along the length of the transaction tops and at a minimum spacing of approximately 1-5/8 inches, peel and adhere the form tape to the underside of the transaction tops.

3.2. Transaction tops requiring fasteners for a secure attachment

    3.2.1. If the transaction tops are already drilled to accept the mounting fasteners (K), transpose those dimensions to the support bracket (A) and drill holes for the fasteners.

    3.2.2. If the transaction tops are not drilled to accept the mounting fasteners (K), using the centering grooves on the support brackets (A) and centered on the width of the brackets, drill holes into the brackets for the fasteners.

3.3. Transaction tops not requiring fasteners for a secure attachment

    3.3.1. For transaction tops that do not require a fastener to secure them, it may be necessary or desired to use bumpers (L) or double-sided tape (M) for additional safety. Apply either as required.

Note: Depending on the strength of the double-sided tape it may not be possible to remove the transaction tops without damaging them so take care in choosing a tape that works well for this application.
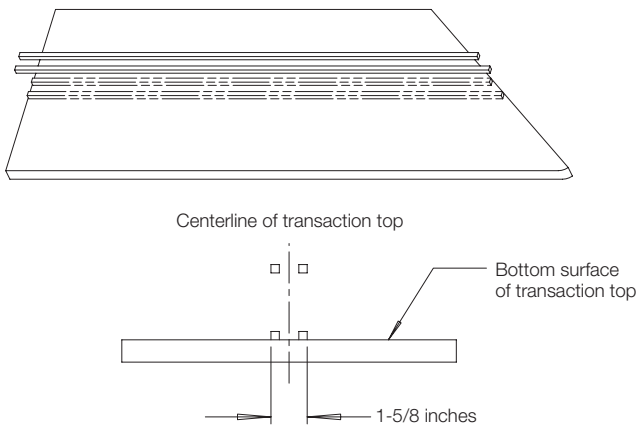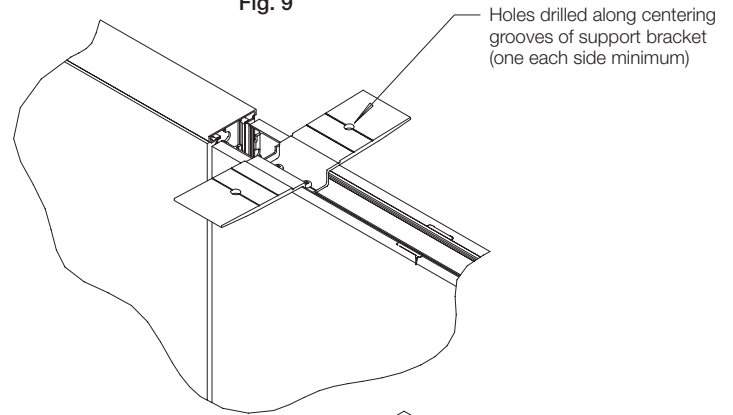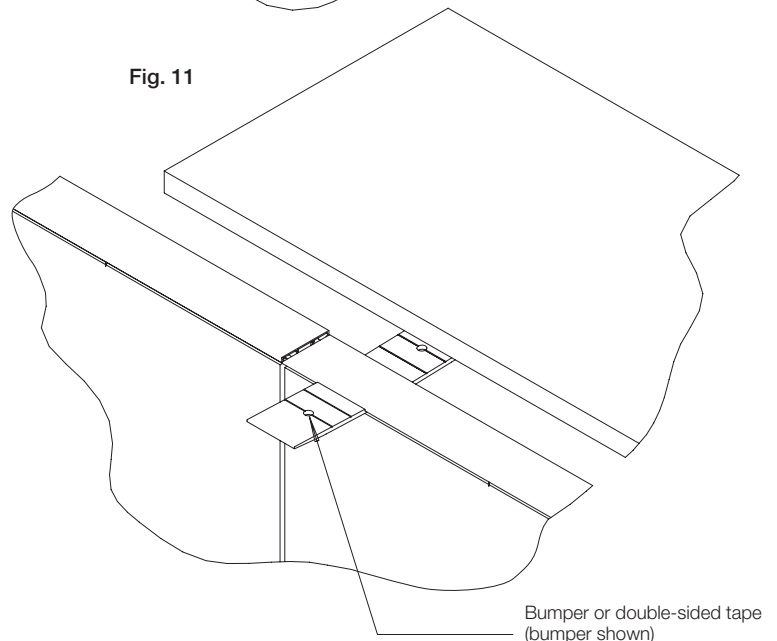
Fig. 8

Centerline of transaction top

Bottom surface of transaction top

1-5/8 inches

Fig. 9

Holes drilled along centering grooves of support bracket (one each side minimum)

Fig. 10

Optional pre-drilled hole on bottom of transaction top

K

Fig. 11

Bumper or double-sided tape (bumper shown)