Hardware

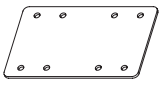
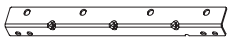
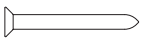
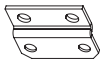
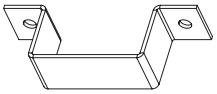
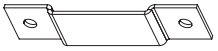
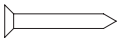
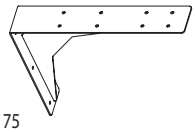
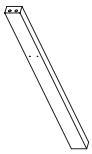
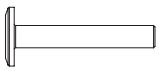
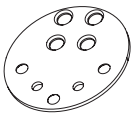
Before you begin

Due to the many options offered in the Reff Admin product line, the installation instructions 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 Reff Admin related hardware and not all the hardware items will be required for every build. For a detailed listing of hardware by product code, see the "Hardware list by product code" table on the next page.

For applications where lower storage will be installed, an additional wood screw (not supplied by Knoll) is required. Although a #10x1-1/4" flat head wood screw is recommended, it can be substituted with a fastener of a different diameter and/or head type as long as the length does not exceed the 1-1/4" limit.

For configurations with unsupported work surface spans exceeding 54" in length, the Knoll Reff mid-span cantilever "RMSCB" is required. Please contact your Knoll representative for availability.

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

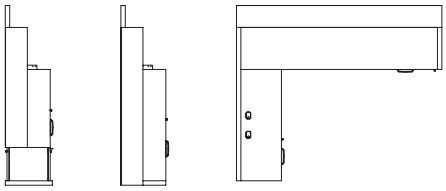
AA  6TR41189 MULTI-CLIP	AB  2TP40054 MENDING PLATE	AC  6TR41108 SUPPORT BRACKET	AD  5144138 RA-FIX CAM	AE  6TR41116 COMPRESSION DOWEL
AF  5110450 SCR,SM FLP 8x1-1/2 ZN	AG  5126220 SCR,M\C PNP 1/4-20x5/8 ZN	AH  5122218 SCR,TRP 14x7/8 T-AB BL	AJ  5144135 RA-FIX BOLT	AK  5112220 SCR,SM PNP 10x3/4 T-17 BL
AL  6TP40770 INFILL HANGING BRACKET	AM  6TP40771 INFILL FLUSH BRACKET	AN  6TP40772 INFILL RECESSED BRACKET	AP  5156136 WOOD DOWEL	AR  WOOD SCREW (NOT SUPPLIED BY KNOLL) FLAT HEAD #10x1-1/4" LONG
AT  6TR4175 MID-SPAND CANTILEVER	AU  2TR4049 SCR,CONFIRMAT 7.0mm x 50.0mm	AV  6TP10875 WOOD JOINER	AW  6TP40184 (FOR BLACK) 6TP40185 (FOR SILVER) BOLT,JOINER 1/4-20x40.0mm	AX  6TP40186 (FOR BLACK) 6TP40187 (FOR SILVER) NUT,JOINER 1/4-20x17.0mm
AY  2TP40119 BUMPER,RUBBER 3/4"DIA x 1/4"H	AZ  5410010 DISC PLATE	BA  5118113 SCR, FLP #8x7/8 T-A BL		

Hardware

HARDWARE LIST BY PRODUCT

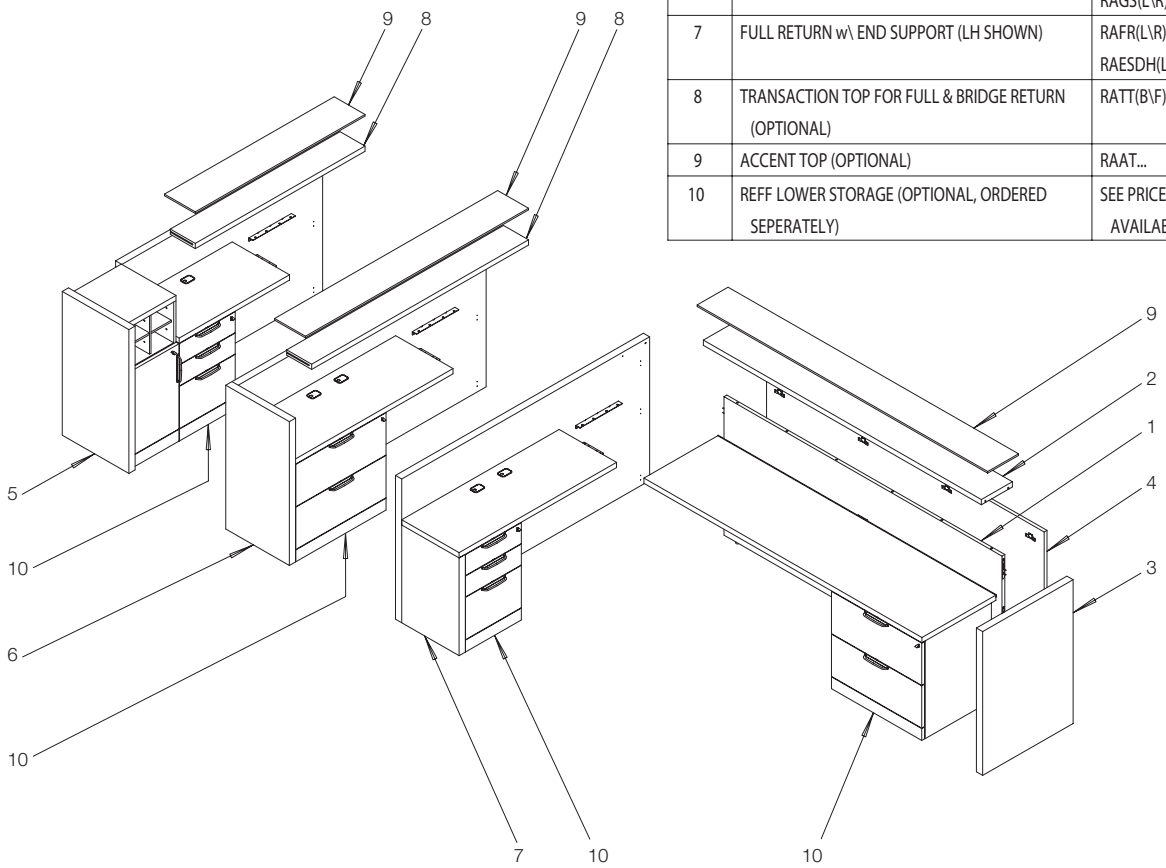
DESCRIPTION	PRODUCT CODE	HARDWARE INCLUDED
SINGLE-WIDE DESK	RASW...	MULTI-CLIP <AA> & FASTENER <AF>
DOUBLE-WIDE DESK		
LH UNIT	RADWL...	MULTI-CLIP <AA>, WOOD JOINER <AV> & FASTENERS <AF> <AU>
RH UNIT	RADWR...	MULTI-CLIP <AA> & FASTENER <AF>
RETURN FULL		
END SUPPORT UNIT	RAFR...E...	MENDING PLATE <AB>, SUPPORT BRACKET <AC> & FASTENERS <AG> <AH> <AK>
GABLE SUPPORT UNIT	RAFR...G...	MULTI-CLIP <AA>, MENDING PLATE <AB>, SUPPORT BRACKET <AC> & FASTENERS <AF> <AG> <AH> <AK>
RETURN BRIDGE (USED w\ ADMIN CABINET)	RABR...	MENDING PLATE <AB>, SUPPORT BRACKET <AC> & FASTENERS <AG> <AH> <AK>
RETURN SHARED		
1-SIDED	RASRS...	MENDING PLATE <AB>, SUPPORT BRACKET <AC> & FASTENERS <AG> <AH> <AK>
2-SIDED	RASRD...	MENDING PLATE <AB>, SUPPORT BRACKET <AC> & FASTENERS <AG> <AH> <AK>
RETURN ISLAND	RAIE...	DISC PLATE <AZ> & FASTENERS <AU> <BA>
END SUPPORT	RAES...	MULTI-CLIP <AA>, SUPPORT BRACKET <AC> & FASTENERS <AF> <AG> <AH>
GABLE SUPPORT	RAGS...	SUPPORT BRACKET <AC> & FASTENERS <AG> <AH>
INFILL		
FLUSH TYPE-A	RAIPFA...	INFILL HANGING BRACKET <AL>, INFILL FLUSH BRACKET <AM> & FASTENER <AK>
FLUSH TYPE-B	RAIPFB...	INFILL HANGING BRACKET <AL>, INFILL FLUSH BRACKET <AM> & FASTENER <AK>
RECESSED	RAIR...	INFILL HANGING BRACKET <AL>, INFILL RECESSED BRACKET <AN> & FASTENER <AK>
TRANSACTION TOP		
FOR DESK	RATTD...	RA-FIX CAM <AD>, COMPRESSION DOWEL <AE>, RA-FIX BOLT <AJ>, WOOD DOWEL <AP> & FASTENER <AK>
FOR RETURN FULL w\ GABLE SUPPORT	RATTF...	RA-FIX CAM <AD>, COMPRESSION DOWEL <AE>, RA-FIX BOLT <AJ>, WOOD DOWEL <AP> & FASTENER <AK>
FOR RETURN BRIDGE w\ ADMIN CABINET	RATTB...	RA-FIX CAM <AD>, COMPRESSION DOWEL <AE>, RA-FIX BOLT <AJ>, WOOD DOWEL <AP> & FASTENER <AK>
ADMIN CABINET		
STAND-ALONE UNIT	RAC(L\R)H(C\T)...N	NONE
TOP DRILLED 1-SIDE	RAC(L\R)H(C\T)...T	SUPPORT BRACKET <AC> & FASTENERS <AG> <AH>
TOP DRILLED BOTH SIDES	RAC(L\R)H(C\T)...TT	SUPPORT BRACKET <AC> & FASTENERS <AG> <AH>
TOP DRILLED 1-SIDE\GABLE DRILLED OTHER	RAC(L\R)H(C\T)...TG	SUPPORT BRACKET <AC> & FASTENERS <AG> <AH>
GABLE (USED w\ GABLE DRILLED ADMIN CABINET)	RACG...	BOLT,JOINER <AW>
ACCENT TOP	RAAT...	BUMPER <AY>
TACKBOARDS FOR DESKS	RAWHDHTB...	NONE
STORAGE CABINET	RAC(72\86)...	NONE
OVERHEAD BRIDGES	SEE PRICE LIST	BOLT,JOINER <AW> & NUT,JOINER <AX>
LOWER STORAGE	SEE PRICE LIST	FASTENER <AH>
CREDENZA WORK SURFACES	SEE PRICE LIST	NONE
CABINETS	SEE PRICE LIST	NONE
MID-SPAN CANTILEVER	RMSCB	MID-SPAN CANTILEVER <AT> & FASTENER <AH>

Fundamentals for Single-Wide Desk Stations

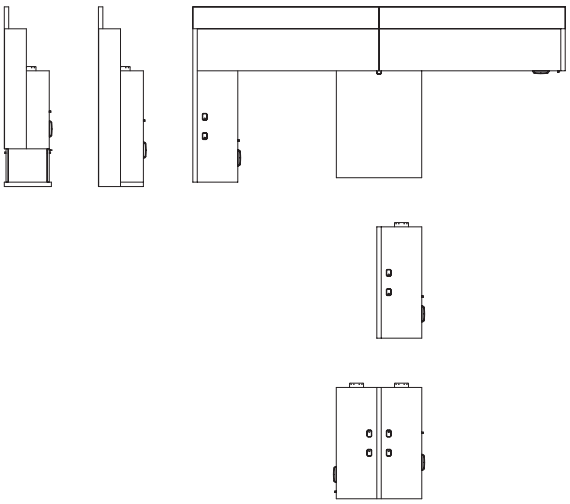


FUNDAMENTALS FOR BUILDING SINGLE-WIDE DESK STATIONS

ITEM NO	BRIEF DESCRIPTION OF APPLICATION	PRODUCT REFERENCES	SEE SECTIONS FOR DETAILS
1	SINGLE-WIDE DESK	RASW...	1-6 & 8
2	TRANSACTION TOP FOR DESK	RATTD...	4
3	GABLE FOR DESK (RH SHOWN)	RAGS(L\R)30...	1-4
4	INFILLS FOR DESK... FLUSH,TYPE-A FLUSH,TYPE-B RECESSED (SHOWN)	 RAIPFA... RAIPFB... RAIPR...	3
5	BRIDGE RETURN w\ ADMIN CABINET (LH SHOWN) (CABINET SHOWN w\ OPTIONAL GABLE)	RABR(L\R)... RAC(L\R)H(C\T)...(T\TG)...	1-2 & 4
6	FULL RETURN w\ GABLE (LH SHOWN)	RAFR(L\R)...G... RAGS(L\R)20...	1-2 & 4
7	FULL RETURN w\ END SUPPORT (LH SHOWN)	RAFR(L\R)...E... RAESDH(L\R)20...	1-2
8	TRANSACTION TOP FOR FULL & BRIDGE RETURN (OPTIONAL)	RATT(B\F)R...	9
9	ACCENT TOP (OPTIONAL)	RAAT...	9
10	REFF LOWER STORAGE (OPTIONAL, ORDERED SEPERATELY)	SEE PRICE LIST FOR AVAILABLE PRODUCTS	2 & 5-7

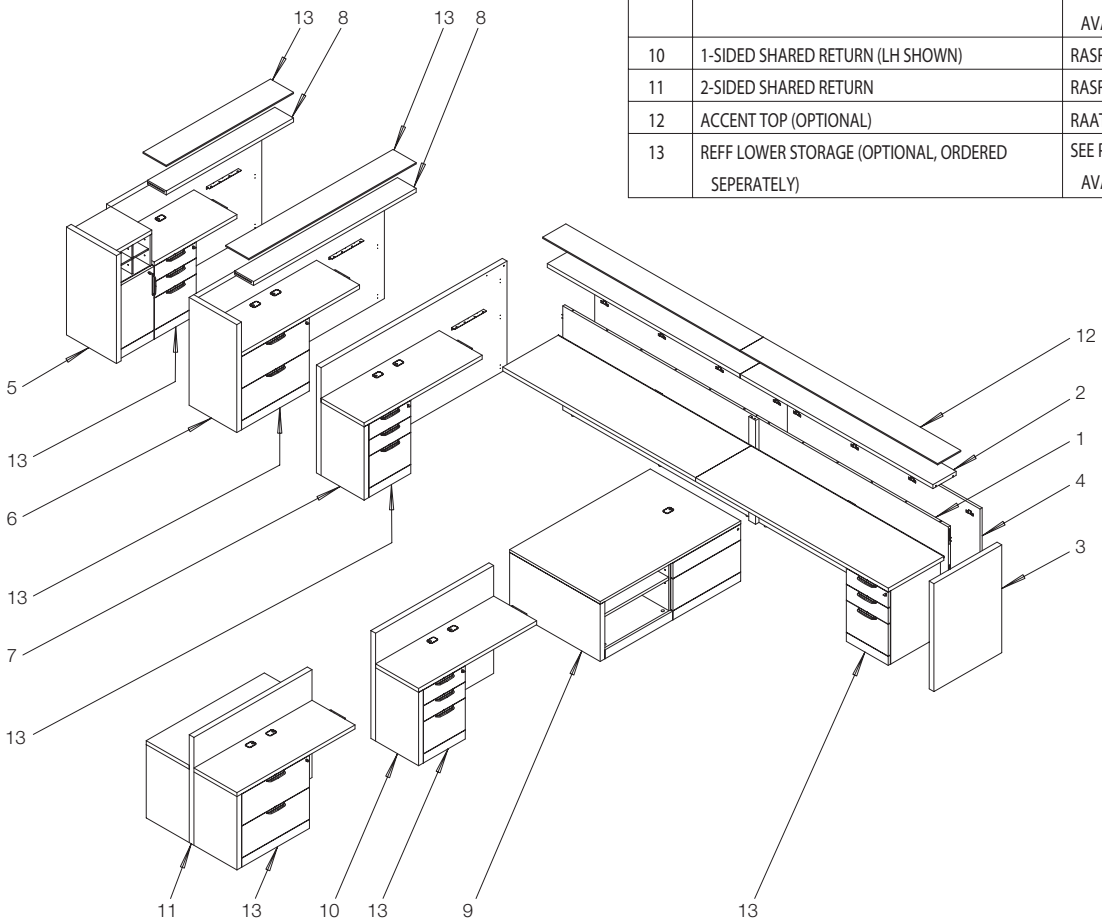


Fundamentals for Double-Wide Desk Stations

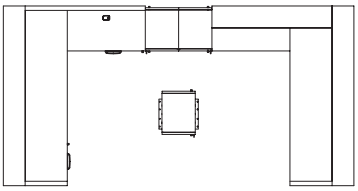


FUNDAMENTALS FOR BUILDING DOUBLE-WIDE DESK STATIONS

ITEM NO	BRIEF DESCRIPTION OF APPLICATION	PRODUCT REFERENCES	SEE SECTIONS FOR DETAILS
1	DOUBLE-WIDE DESK	RADW...	1-6 & 8
2	TRANSACTION TOP FOR DESK	RATTDD...	4
3	GABLE FOR DESK (RH SHOWN)	RAGS(L\R)30...	1-2 & 4
4	INFILLS FOR DESK... FLUSH,TYPE-A FLUSH,TYPE-B RECESSED (SHOWN)	 RAIPFA... RAIPFB... RAIPR...	3
5	BRIDGE RETURN w\ ADMIN CABINET (LH SHOWN) (CABINET SHOWN w\ OPTIONAL GABLE)	RABR(L\R)... RAC(L\R)H(C\T)...(T\TG)...	1-2 & 4
6	FULL RETURN w\ GABLE (LH SHOWN)	RAFR(L\R)...G... RAGS(L\R)20...	1-2 & 4
7	FULL RETURN w\ END SUPPORT (LH SHOWN)	RAFR(L\R)...E... RAESDH(L\R)20...	1-2
8	TRANSACTION TOP FOR FULL & BRIDGE RETURN	RATT(B\F)R...	4
9	ISLAND RETURN w\ REQUIRED LOWER STORAGE (LOWER STORAGE ORDERED SEPERATELY)	RAIE... SEE PRICE LIST FOR AVAILABLE PRODUCTS	6
10	1-SIDED SHARED RETURN (LH SHOWN)	RASRS(L\R)...	5
11	2-SIDED SHARED RETURN	RASRD...	5
12	ACCENT TOP (OPTIONAL)	RAAT...	9
13	REFF LOWER STORAGE (OPTIONAL, ORDERED SEPERATELY)	SEE PRICE LIST FOR AVAILABLE PRODUCTS	2 & 5-7

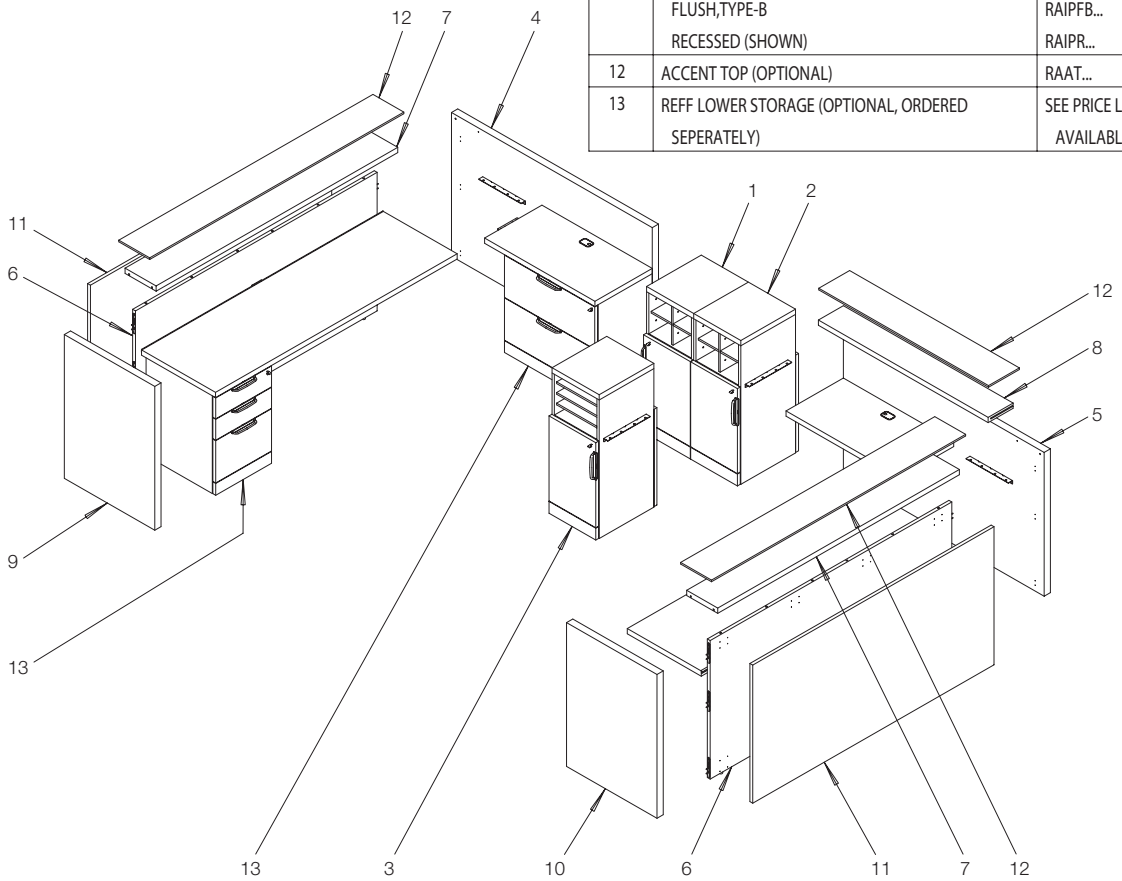


Fundamentals for Top-Top Admin Cabinet Stations

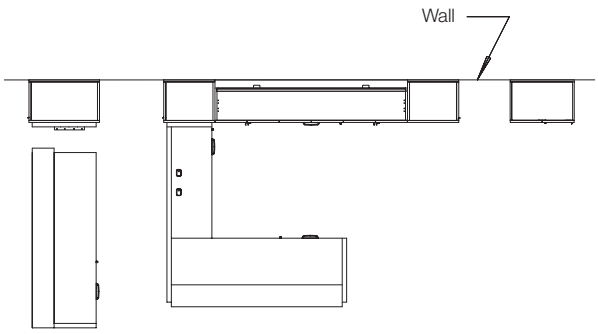


FUNDAMENTALS FOR BUILDING TOP-TOP MOUNTED ADMIN CABINET STATIONS

ITEM NO	BRIEF DESCRIPTION OF APPLICATION	PRODUCT REFERENCES	SEE SECTIONS FOR DETAILS
1	RH ADMIN CABINET w\ TOP ONE SIDE	RACRH(C\T)...T...	2 & 4
2	LH ADMIN CABINET w\ TOP ONE SIDE	RACLH(C\T)...T...	2 & 4
3	ADMIN CABINET w\ TOP TWO SIDES (LH SHOWN)	RAC(L\R)H(C\T)...TT...	2 & 4
4	RH BRIDGE RETURN	RABRR...	1-2 & 4
5	LH BRIDGE RETURN	RABRL...	1-2 & 4
6	SINGLE-WIDE DESK	RASW...	1-6 & 8
7	TRANSACTION TOP FOR DESK	RATTD...	4
8	TRANSACTION TOP FOR BRIDGE RETURN (OPTIONAL)	RATTBR...	4
9	LH GABLE FOR DESK	RAGSL30...	1-2 & 4
10	RH GABLE FOR DESK	RAGSR30...	1-2 & 4
11	INFILLS FOR DESK... FLUSH,TYPE-A FLUSH,TYPE-B RECESSED (SHOWN)	 RAIPFA... RAIPFB... RAIPR...	3
12	ACCENT TOP (OPTIONAL)	RAAT...	9
13	REFF LOWER STORAGE (OPTIONAL, ORDERED SEPERATELY)	SEE PRICE LIST FOR AVAILABLE PRODUCTS	2 & 5-7

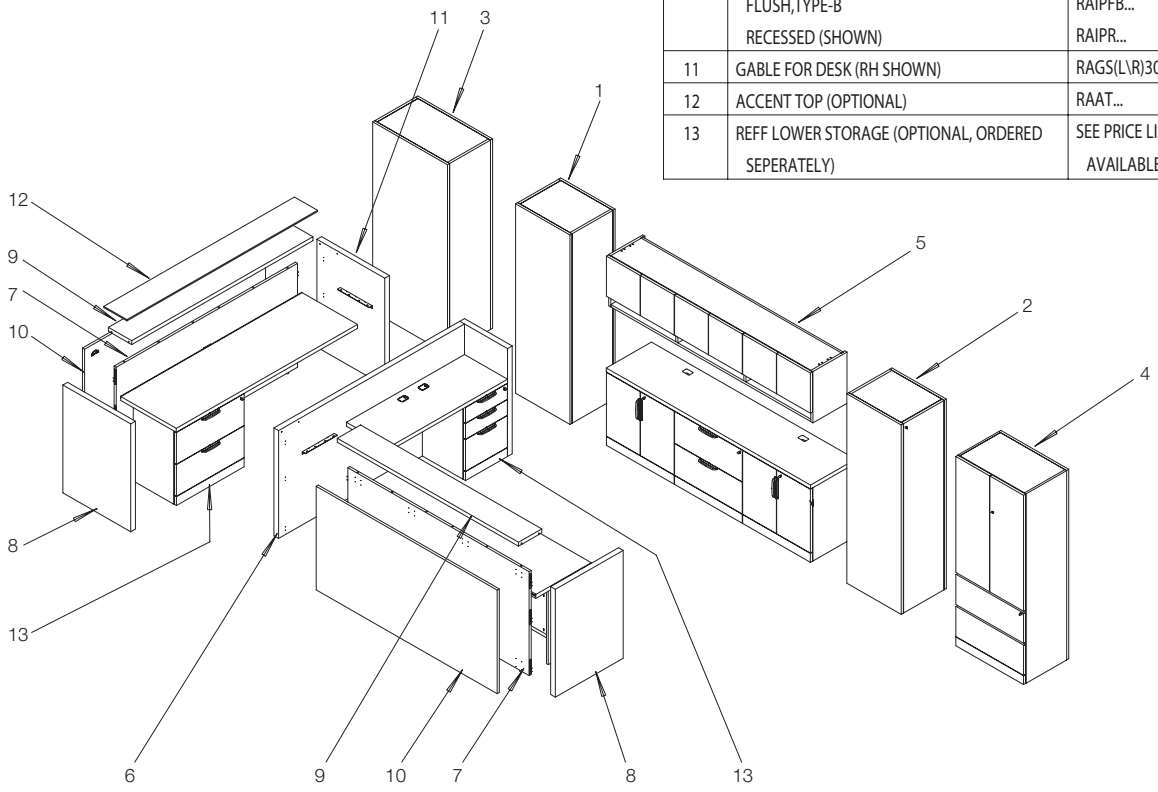


Fundamentals for Storage Cabinet Stations



FUNDAMENTALS FOR BUILDING STORAGE CABINET STATIONS

ITEM NO	BRIEF DESCRIPTION OF APPLICATION	PRODUCT REFERENCES	SEE SECTIONS FOR DETAILS
1	LH STORAGE CABINET,24"W	RAC...4...DHLH...	7
2	RH STORAGE CABINET,24"W	RAC...4...DHRH...	7
3	LH STORAGE CABINET,33"W	RAC...3...DHLH...	7
4	REFF FULL-HIEGHT STORAGE	SEE PRICE LIST FOR AVAILABLE PRODUCTS	7
5	REFF OVERHEAD BRIDGE w\ REFF CREDENZA TOP AND REFF LOWER STORAGE	SEE PRICE LIST FOR AVAILABLE PRODUCTS	7
6	FULL RETURN w\ GABLE (LH SHOWN)	RAFR(L\R)...G... RAGS(L\R)20...	1-2 & 4
7	DESK (SINGLE-WIDE SHOWN)	RA(S\D)W...	1-6 & 8
8	GABLE FOR DESK (LH SHOWN)	RAGS(L\R)30...	1-2 & 4
9	TRANSACTION TOP FOR DESK (SINGLE-WIDE SHOWN)	RATT(D\DD)...	4
10	INFILLS FOR DESK (SINGLE-WIDE SHOWN)... FLUSH,TYPE-A FLUSH,TYPE-B RECESSED (SHOWN)	RAIPFA... RAIPFB... RAIPR...	3
11	GABLE FOR DESK (RH SHOWN)	RAGS(L\R)30...	1-2 & 4
12	ACCENT TOP (OPTIONAL)	RAAT...	9
13	REFF LOWER STORAGE (OPTIONAL, ORDERED SEPERATELY)	SEE PRICE LIST FOR AVAILABLE PRODUCTS	2 & 5-7



Desk and Full/Bridge Returns

1. Back Panels, Gables and End Supports

Products:
RA(S/D)W..., RA(F\B)R..., RAES... & RAGS...

Tools Needed
Measuring Tape
Phillips Square Driver
Rubber Mallet

See Figures 1-2

1.1. Desk gable (RAGS...) or full/bridge return back panel (RAFR.../RABR...) to desk back panel (RASW.../RADW...)

1.1.1. On desk gable or return back panel, assemble multi-clip (AA) using fastener (AF) (3 places).
Note: Multi-clips on desk back panel are factory installed.

1.1.2. Assemble end gable or return back panel to desk back panel by inter-locking the multi-clips.
Note: Desk back panel must be oriented with the paper side facing out, away from end user.

1.1.3. Repeat these steps for the other hand.

1.2. For double wide desk (RADW...), left-hand desk back panel (RADWL...) to right-hand desk panel (RADWR...)

1.2.1. Assemble wood joiner (AV) to inside (or finished side) of left-hand desk back panel using fastener (AU).

1.2.2 Assemble partially built right-hand desk to the left-hand desk using the remaining (AU) fasteners.

Fig. 1A

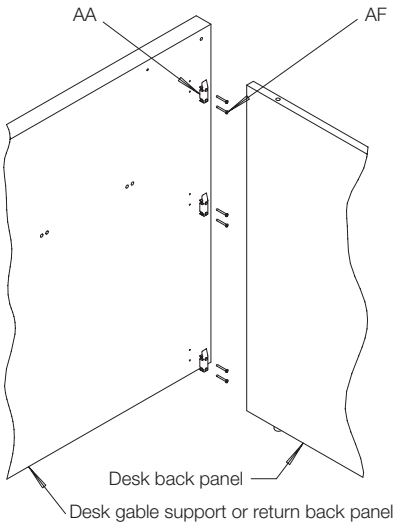


Fig. 1B

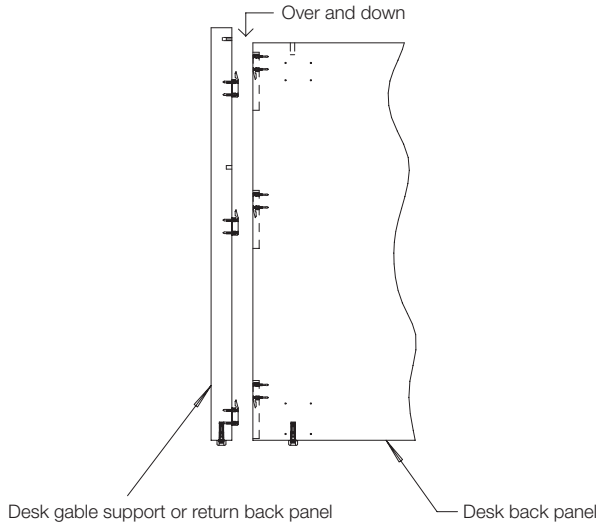
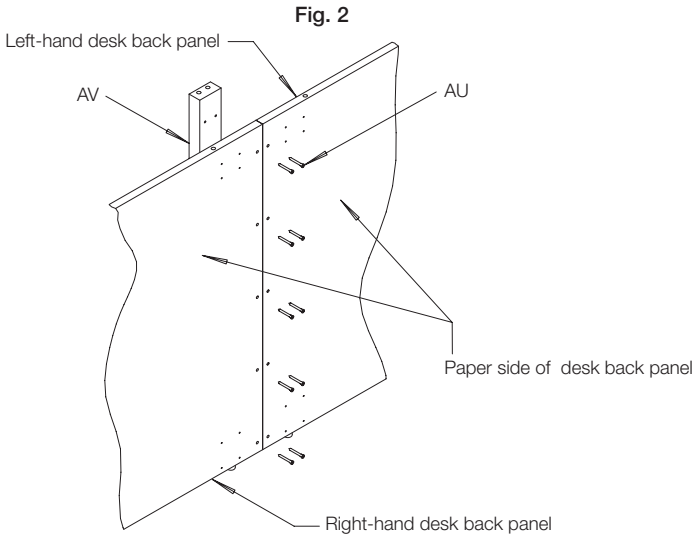


Fig. 2



Desk and Full/Bridge Returns

1. Back Panels, Gables and End Supports

Products:
RA(S/D)W..., RA(F\B)R..., RAES... & RAGS...

Tools Needed
Measuring Tape
Phillips Square Driver
Rubber Mallet

See Figures 3-4

1.3. For full return with end support, end support (RAES...) to full return back panel (RAFR...F...)

1.3.1. On return back panel, assemble multi-clip (AA) using fastener (AF) (2 places).
Note: Multi-clips on end support are factory installed.

1.3.2. Assemble end support to return back panel by inter-locking the multi-clips.

1.4. For full return with gable support, gable support (RAGS...) to full return back panel (RAFR... G...)

1.4.1. On gable support, assemble multi-clip (AA) using fastener(AF) (3 places).
Note: Multi-clips on return back panel are factory installed.

1.4.2 Assemble gable support to return back panel by inter-locking the multi-clips.

Fig. 3A

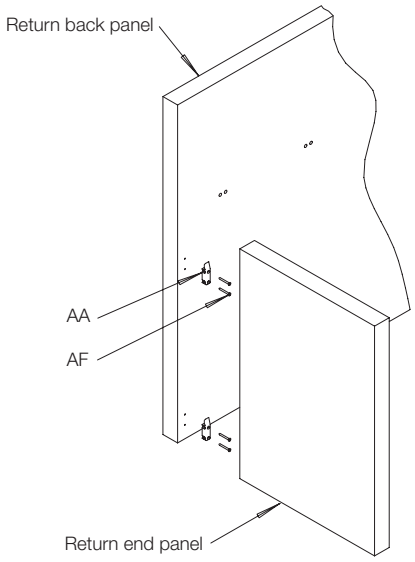


Fig. 3B

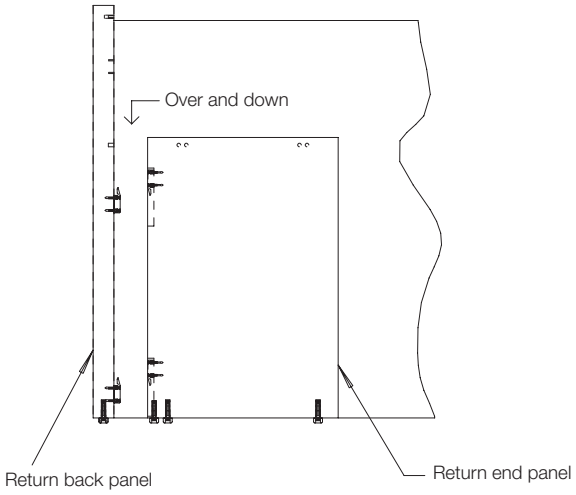


Fig. 4A

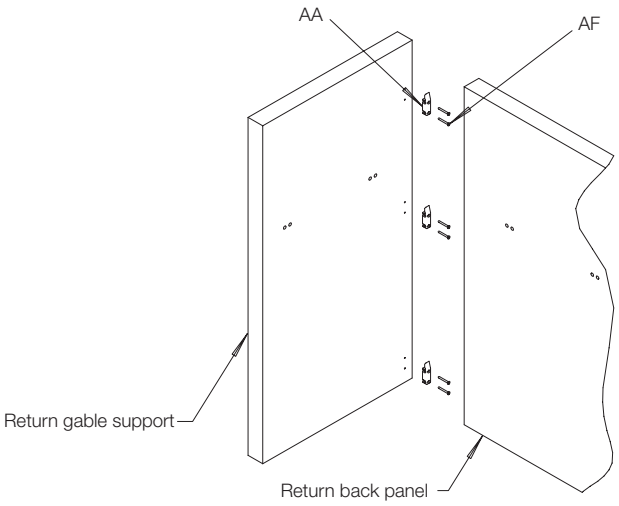
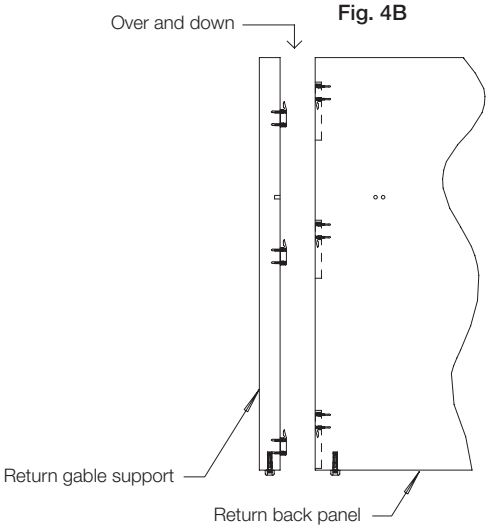


Fig. 4B



Desk and Full/Bridge Returns

2. Lower Storage, Admin Cabinets and Work Surfaces

Products:
RA(S\D)W..., RA(F\B)R..., RAES..., RAGS..., RAC(L\R)H(C\T)...(T\TT), RMSCB & REFF LOWER STORAGE

Tools Needed
Measuring Tape
Phillips Square Driver

See Figures 5-10

2.1. If applicable, position all lower storage and admin end cabinets as required.

2.2. Assemble all support brackets (AC) using fastener (AG) except where storage elements cause an obstruction.

2.3. Applicable only for desks (RASW.../RADW...), any unsupported work surface spans exceeding 54" will require the addition of the Reff mid-span cantilever "RMSCB". Assemble mid-span cantilever (AT) with fastener (AK), using the pilot holes provided on the desk back panel to position the cantilever.

2.4. Applicable only for double-wide desks (RADW...) without lower storage at the center, the Reff mid-span cantilever "RMSCB" is required. Assemble mid-span cantilever (AT) with fastener (AK), using the pilot holes provided on the desk back panel to position the cantilever.
Note: If required, the mid-span cantilever (RMSCB) must be ordered separately. Please contact your Knoll representative for availability.

2.5. Position all work surfaces and secure them with fastener (AH) using the pilot holes on the bottom of work surfaces for proper positioning.
Note: On the desk, you should be left with a 2" wire drop and pencil lip along the back side.

2.6. In the areas where the support bracket (AC) could not be installed due to the obstruction of lower storage units, it will be necessary to secure each lower storage unit using fastener (AR) 3-4 places. Field drilling is recommended to locate the first fastener 2" down and 2" back from the gable of the lower storage unit. Install the remaining fasteners equally spaced along the same 2" horizontal plane. For end conditions, secure the lower storage unit to the end/gable supports or the admin cabinet gable, for double-wide desk center storage conditions, secure the storage units directly to each other.

2.7. Connect the desk and return work surfaces, using mending plate (AB) with fastener (AK).

Fig. 5A
No lower storage
with worksurfaces removed

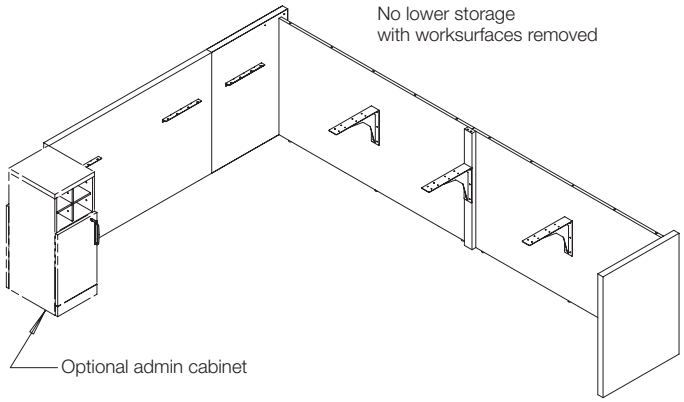


Fig. 5B
All lower storage
with worksurfaces removed

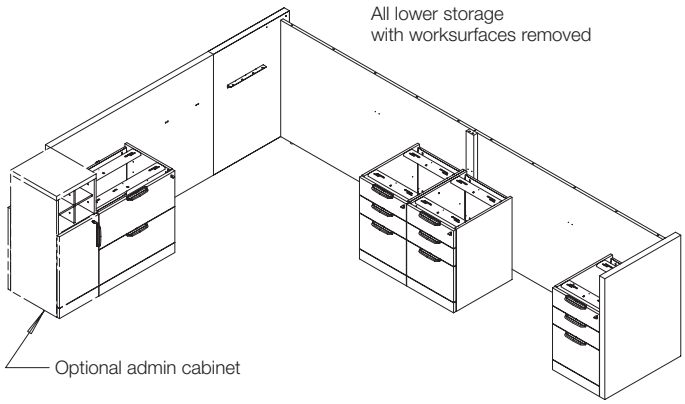
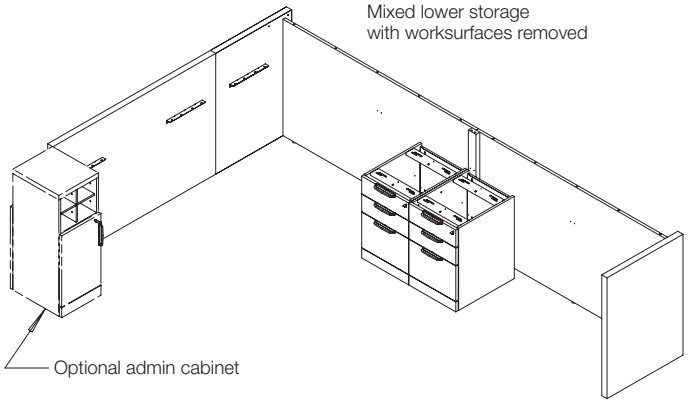


Fig. 5C
Mixed lower storage
with worksurfaces removed



Desk and Full/Bridge Returns

2. Lower Storage, Admin Cabinets and Work Surfaces

Products:
RA(S\D)W..., RA(F\B)R..., RAES..., RAGS...,
RAC(L\R)H(C\T)...(T\TT), RMSCB & REFF
LOWER STORAGE

Tools Needed
Measuring Tape
Phillips Square Driver

Fig. 6

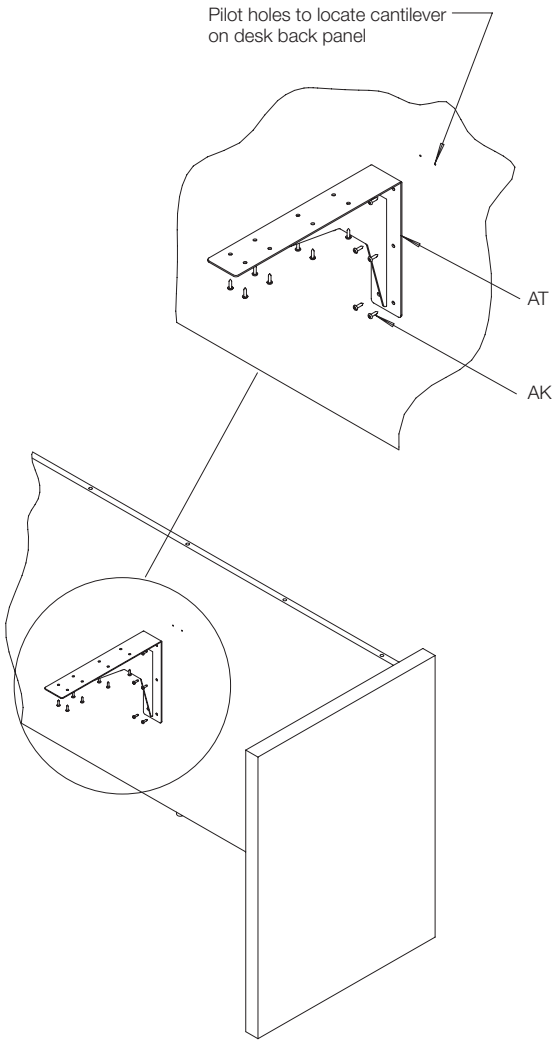
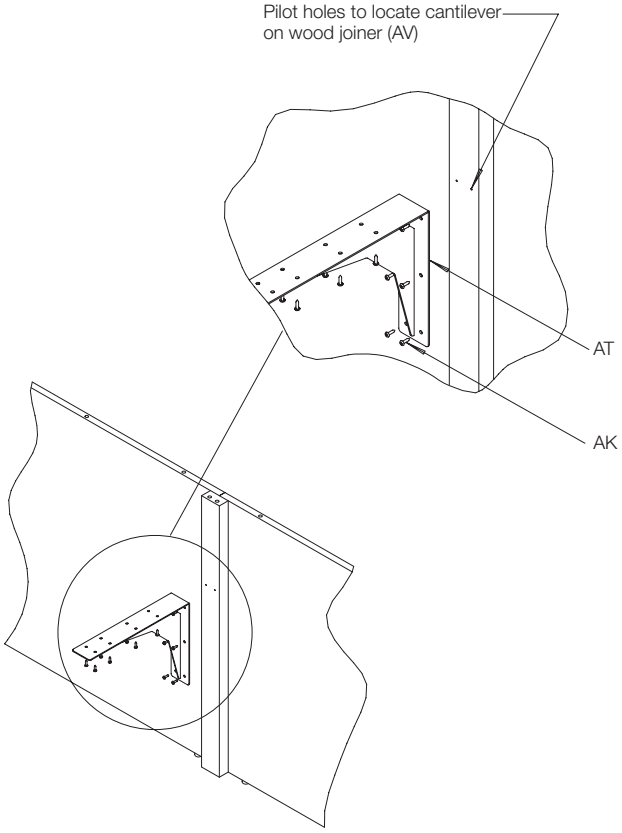


Fig. 7



Desk and Full/Bridge Returns

2. Lower Storage, Admin Cabinets and Work Surfaces

Products:
RA(S\D)W..., RA(F\B)R..., RAES..., RAGS...,
RAC(L\R)H(C\T)...(T\TT), RMSCB & REFF
LOWER STORAGE

Tools Needed
Measuring Tape
Phillips Square Driver

Fig. 8

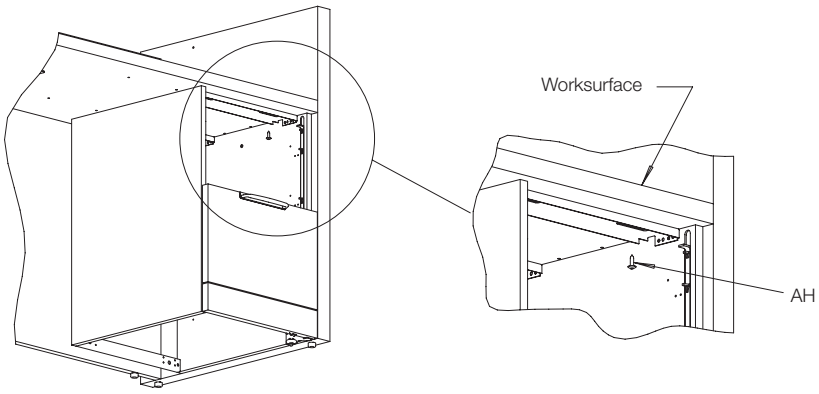


Fig. 9A

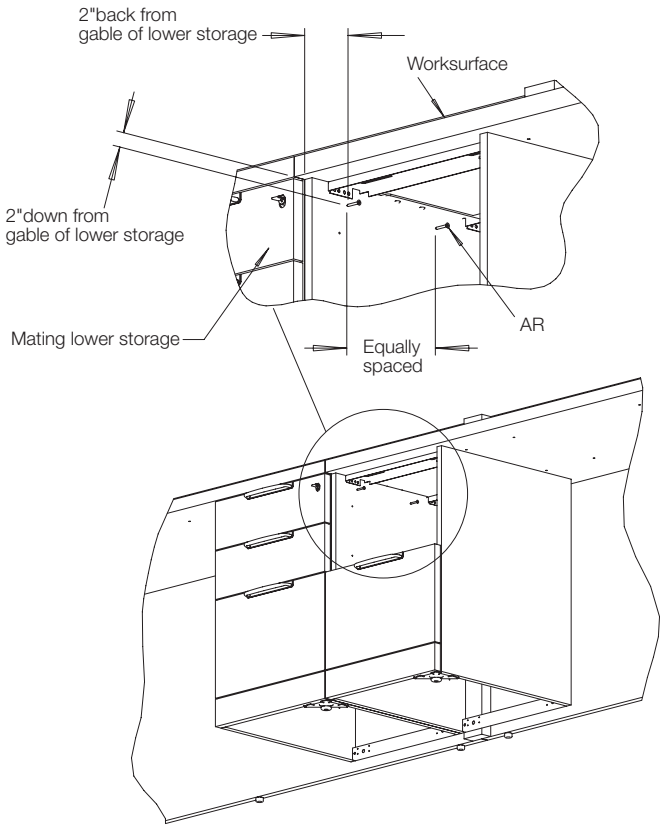
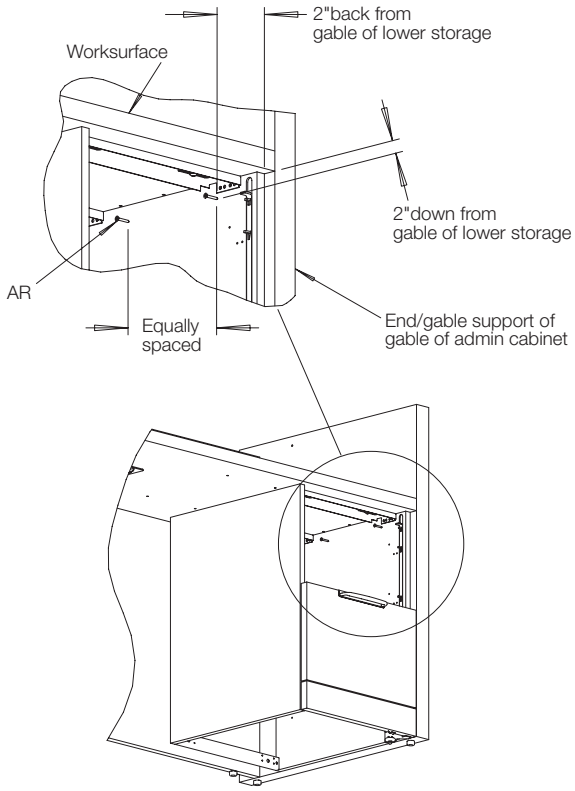


Fig. 9B



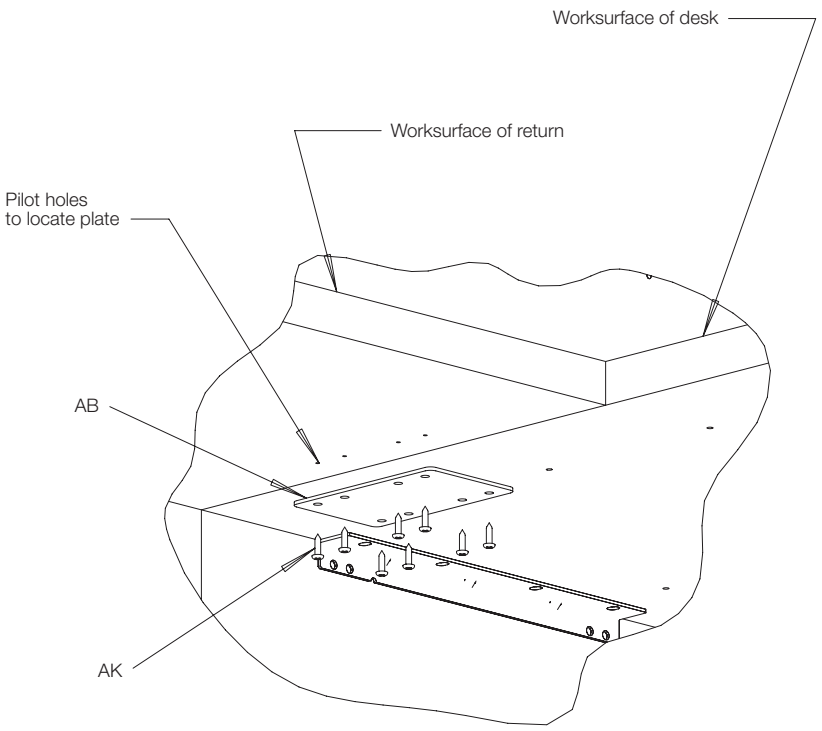
Desk and Full/Bridge Returns

2. Lower Storage, Admin Cabinets and Work Surfaces

Products:
RA(S\D)W..., RA(F\B)R..., RAES..., RAGS...,
RAC(L\R)H(C\T)...(T\TT), RMSCB & REFF
LOWER STORAGE

Tools Needed
Measuring Tape
Phillips Square Driver

Fig.10



Desk and Full/Bridge Returns

3. Desk Infills

Products:
RAIP(F\R)... & RA(S\D)W...

Tools Needed
Measuring Tape
Phillips Square Driver

See Figures 11-15

3.1. Flush type-A infills (RAIPFA...) to desk back panel (RASW.../RADW...)

3.1.1 Assemble all hanging brackets (AL) using fastener (AK) to the back side of the infills using the pilot holes provided.

3.1.2. Assemble all flush brackets (AM) using fastener (AK) to the outside (or paper side) of the desk back panel using the pilot holes provided, furthest away from the edges.

3.1.3. Using the flush brackets as a reference point, assemble the bottom recessed covers to the desk back panel. Peel off the adhesive backer of the double-sided tape on the back of the covers then press firmly in the locations where the tape is to secure the connection.

3.1.4. Assemble the infills to the desk by engaging the hanging brackets and flush brackets.

3.2. Flush type-B infills (RAIPFB...) to desk back panel (RASW.../RADW...)

3.2.1. Assemble all hanging brackets (AL) using fastener (AK) to the back side of the infills using the pilot holes provided.

3.2.2. Assemble all flush brackets (AM) using fastener (AK) to the outside (or paper side) of the desk back panel using the pilot holes provided, furthest away from the edges.

3.2.3. Using the flush brackets as a reference point, assemble the bottom and top recessed covers to the desk back panel. Peel off the adhesive backer of the double-sided tape on the back of the covers then press firmly in the locations where the tape is to secure the connection.

3.2.4. Assemble the infills to the desk by engaging the hanging brackets and flush brackets.

3.3. Recessed wood infills (RAIPRW...) to desk back panel (RASW.../RADW...)

3.3.1. Assemble all hanging brackets (AL) using fastener (AK) to the back side of the infills using the pilot holes provided.

3.3.2. Assemble all recessed brackets (AN) using fastener (AK) to the outside (or paper side) of the desk back panel using the pilot holes provided, furthest away from the edges.

3.3.4. Assemble the infills to the desk by engaging the hanging brackets and recessed brackets.

3.4. Recessed glass infills (RAIPRG...) to desk back panel (RASW.../RADW...)

3.4.1. Assemble all hanging brackets (AL) using fastener (AK) to the back side of the infills using the pilot holes provided.

3.4.2. Assemble all recessed brackets (AN) using fastener (AK) to the outside (or paper side) of the desk back panel using the pilot holes provided, closest to the edges.

3.4.4. Assemble the infills to the desk by engaging the hanging brackets and recessed brackets.

Fig. 11A

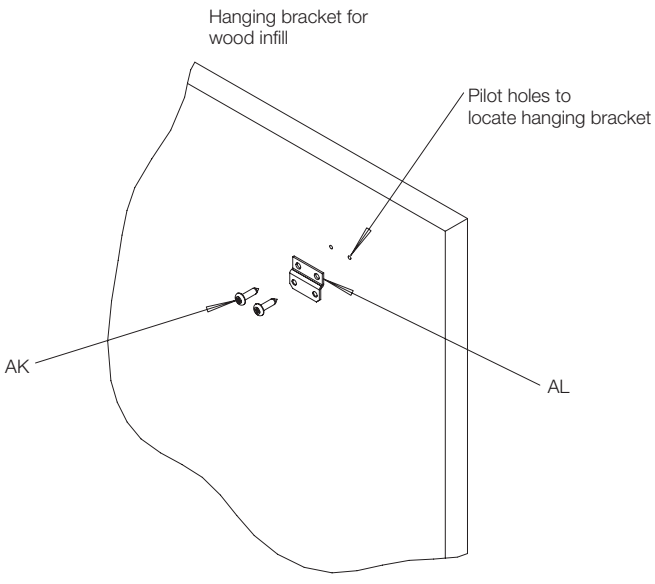
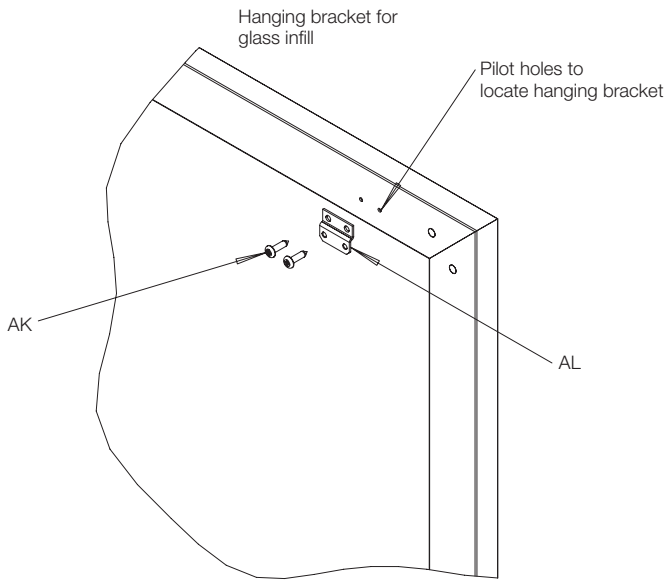


Fig. 11B



Desk and Full/Bridge Returns

3. Desk Infills

Products:
RAIP(F\R)... & RA(S\D)W...

Tools Needed
Measuring Tape
Phillips Square Driver

Fig. 12A
Flush bracket for wood infill

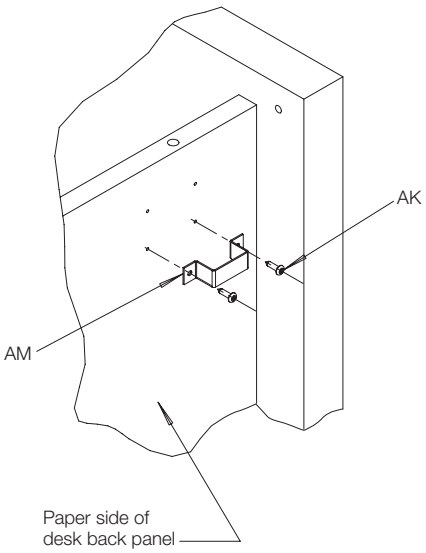


Fig. 12B
Recessed bracket for wood infill

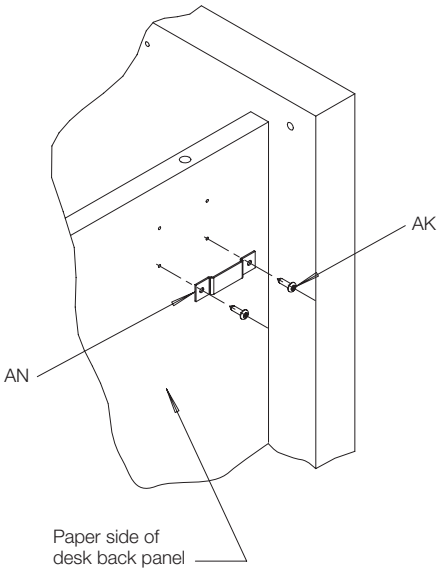


Fig. 12C
Recessed bracket for glass infill

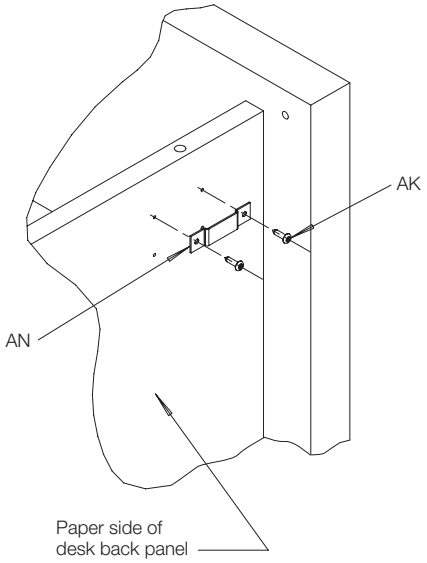


Fig. 13

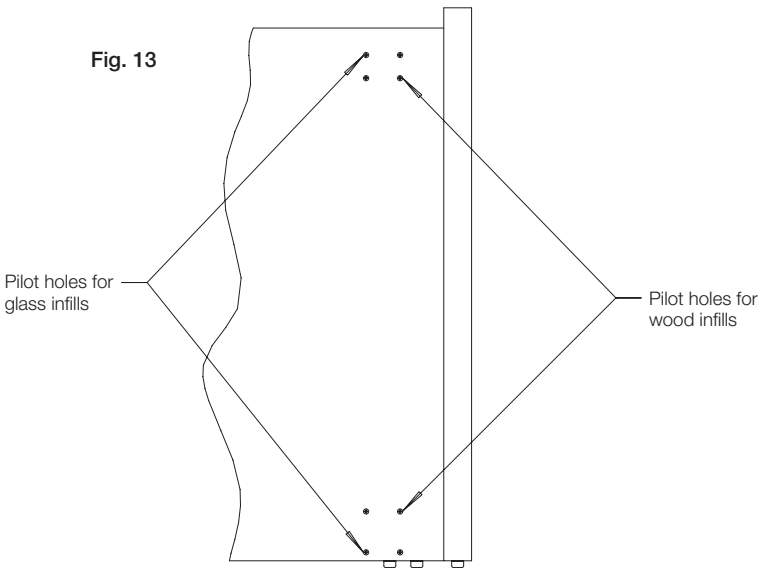
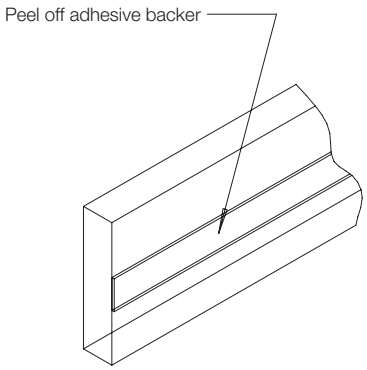


Fig. 14



Desk and Full/Bridge Returns

3. Desk Infills

Products:
RAIP(F\R)... & RA(S\D)W...

Tools Needed
Measuring Tape
Phillips Square Driver

Fig. 15A
Wood infill, flush type-A

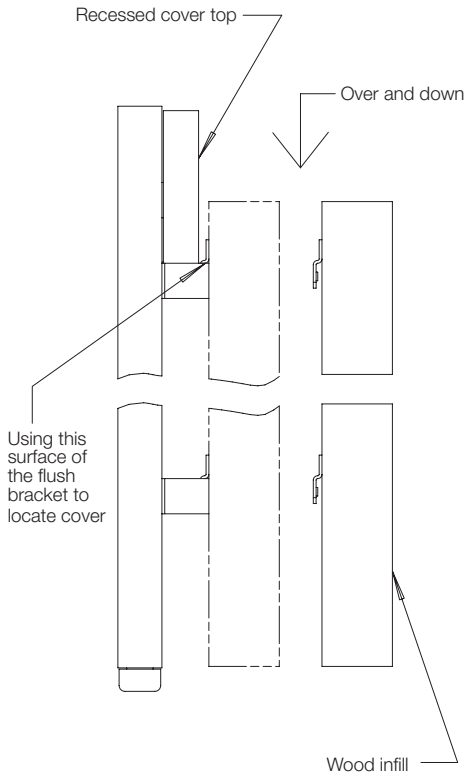


Fig. 15B
Wood infill, flush type-B

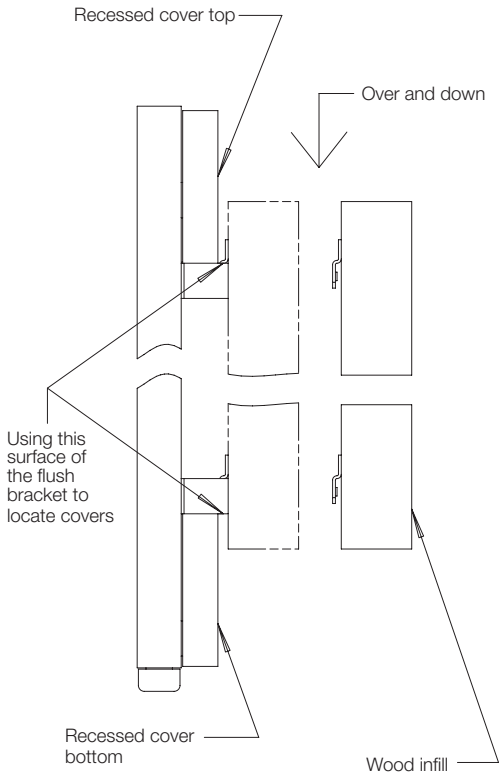
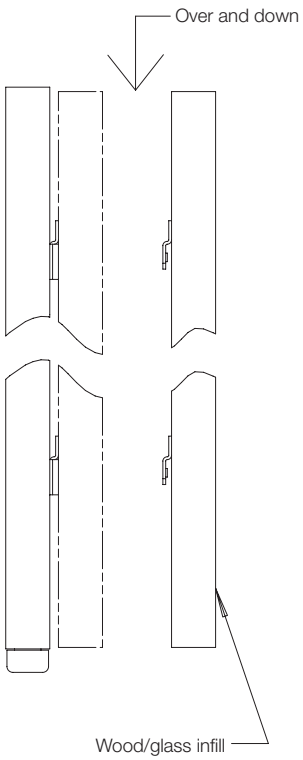


Fig. 15C
Wood/glass infill, resessed



Desk and Full/Bridge Returns

4. Desk and Full/Bridge Return Transaction Tops

Products:
RATTD..., RATT(F\B), RA(S\D)W..., RAFR...G...,
RABR... & RAC(L\R)H(CT)...(T\TT\TG)

Tools Needed
Measuring Tape
Phillips Square Driver
Rubber Mallet
1/8" Drill
5/16" Drill

See Figures 16-25

4.1. Transaction top (RATTD...) to single-wide desk (RASW...)

4.1.1 At both ends of the desk, install RA-FIX bolt (AJ) and wood dowel (AP).

4.1.2. At each end of the transaction top, install RA-FIX cam (AD).

4.1.3. Using the pilot holes provided on the bottom of the transaction top, assemble all compression dowels (AE) using fastener (AK).

4.1.4. Orient the transaction top so that the compression dowels align with the drilling on the top edge of the desk's back panel and carefully lower the transaction top into place, making sure that all connections stay aligned.

4.1.5. Complete the assembly using a rubber mallet to engage the compression dowels and a Philips screw driver to tighten the RA-FIX cams at each end.

4.2. Transaction top (RATTDD...) to double-wide desk (RADW...)

4.2.1. At both ends of the desk, install RA-FIX bolt (AJ) and wood dowel (AP).

4.2.2. On the left-hand transaction top, install RA-FIX cam (AD) on the outside (left-hand) end. Then, install the wood dowel (AP) and RA-FIX bolt (AJ) on the inside (right-hand) end.

4.2.3. On the right-hand transaction top, install RA-FIX cams (AD) at each end.

4.2.4. Using the pilot holes provided on the bottom of the transaction tops, assemble all compression dowels (AE) using fastener (AK).

4.2.5. Assemble the left-hand transaction top, orient the transaction top so that the compression dowels align with the drilling on the top edge of the desk's back panel and carefully lower the transaction top into place making sure that all connection stay aligned.

4.2.6. Complete the assembly of the left hand transaction top using a rubber mallet to engage the compression dowels and a Philips screw driver to tighten the RA-FIX cams at outside end.

4.2.7. Install the right-hand transaction top in the same manor as the left-hand. The only exception being the additional RA-FIX connection at the center where the two tops meet.

4.3. Transaction top (RATTF.../RATTB...) to full/bridge return (RAFR...G.../RABR...)

Note: On full returns, transaction tops can only be used on the full return with gable (RAFR...G...) option.

4.3.1. On the desk transaction top at one end and on the return gable or top shelf of the admin cabinet at the other end, drill 5/16" diameter x 1" deep holes at a location 3/4" down and 6 1/4" forward from the top edge of the return back panel then insert the wood dowels (AP).

4.3.2. On the inside surface of the return back panel, drill 1/8" diameter x 1/8" deep pilot holes, then install RA-FIX bolt (AJ). The drill location in the vertical direction is 1-1/8" down from top edge of the return back panel. The locations in the horizontal direction, must be transposed from the RA-FIX cam drillings on the return transaction top.

4.3.3. Install the RA-FIX cams (AD) onto the bottom surface of the return transaction top and slide the transaction top into place. Then, using a Philips screw driver secure the RA-FIX connection along back edge.

Desk and Full/Bridge Returns

4. Desk and Full/Bridge Return Transaction Tops

Products:
RATTD..., RATT(F\B), RA(S\D)W..., RAFR...G...,
RABR... & RAC(L\R)H(CT)...(T\TT\TG)

Tools Needed
Measuring Tape
Phillips Square Driver
Rubber Mallet
1/8" Drill
5/16" Drill

Fig. 16
Ends of desk

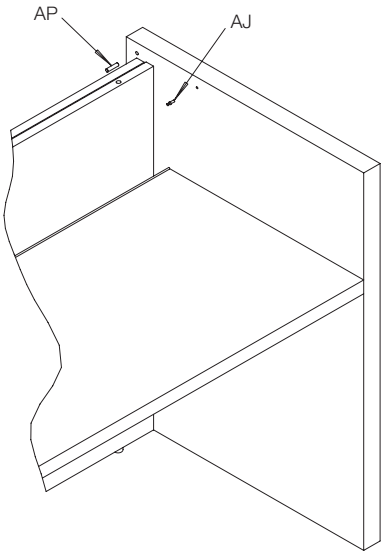


Fig. 17
Ends of 1-piece and 2-piece transaction tops

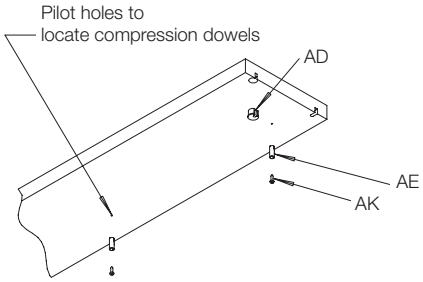


Fig. 18
Cener of 2-piece transaction tops

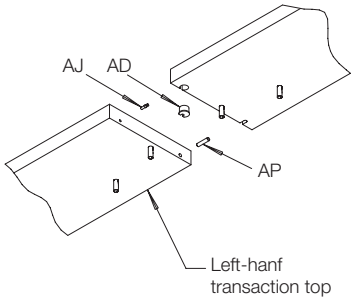


Fig. 19
For single-wide desks

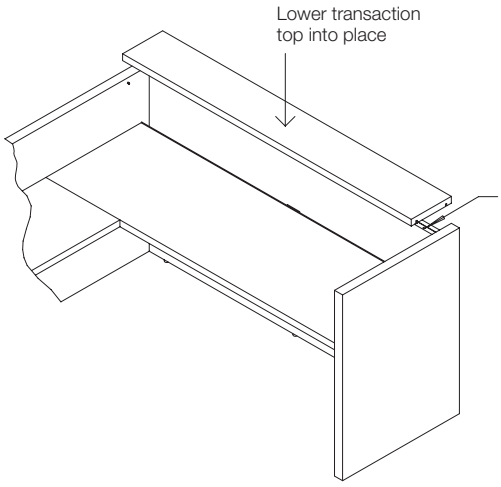
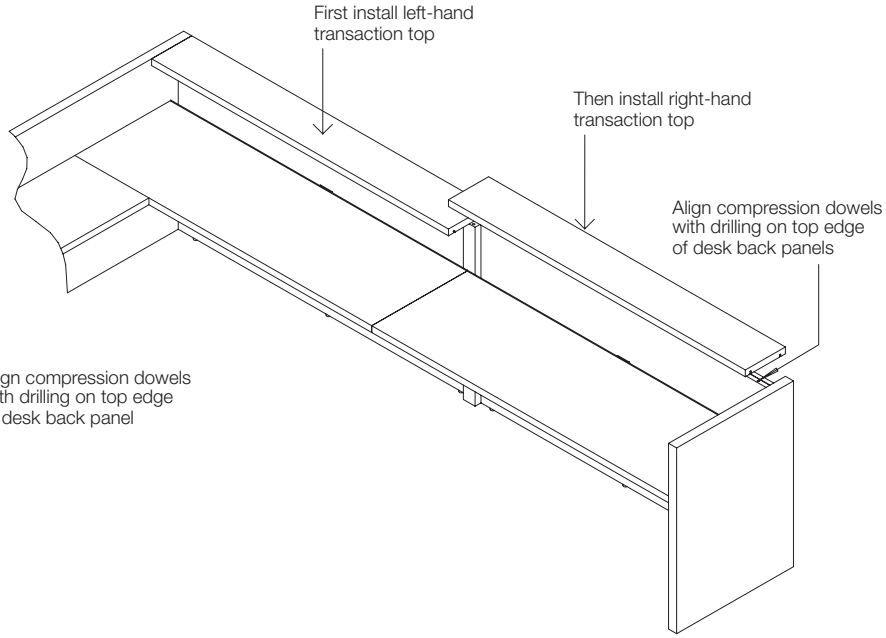


Fig. 20
For double-wide desks



Desk and Full/Bridge Returns

4. Desk and Full/Bridge Return Transaction Tops

Products:
RATTD..., RATT(F\B), RA(S\D)W..., RAFR...G...,
RABR... & RAC(L\R)H(CT)...(T\TT\TG)

Tools Needed
Measuring Tape
Phillips Square Driver
Rubber Mallet
1/8" Drill
5/16" Drill

Fig. 21A
Drilling for wood dowel on desk transaction top

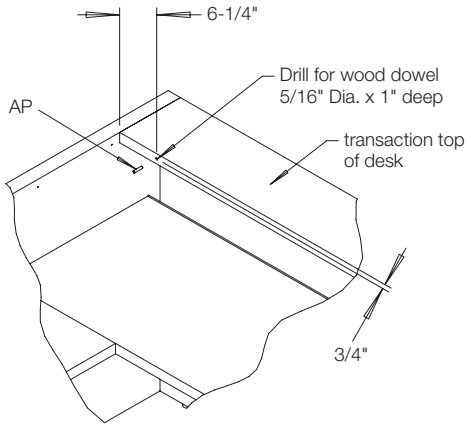


Fig. 21B
Drilling for wood dowel on gable of return

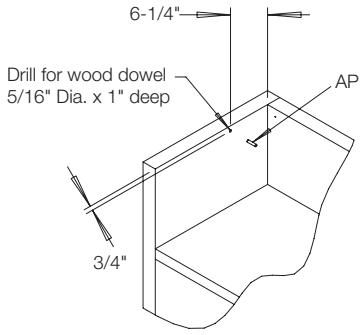


Fig. 21C
Drilling for wood dowel on top shelf of admin cabinet

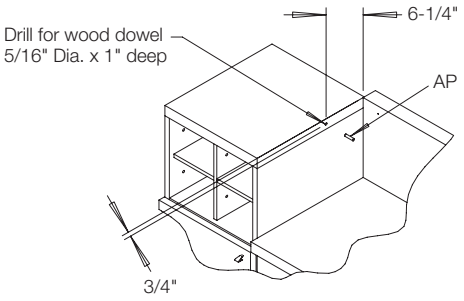
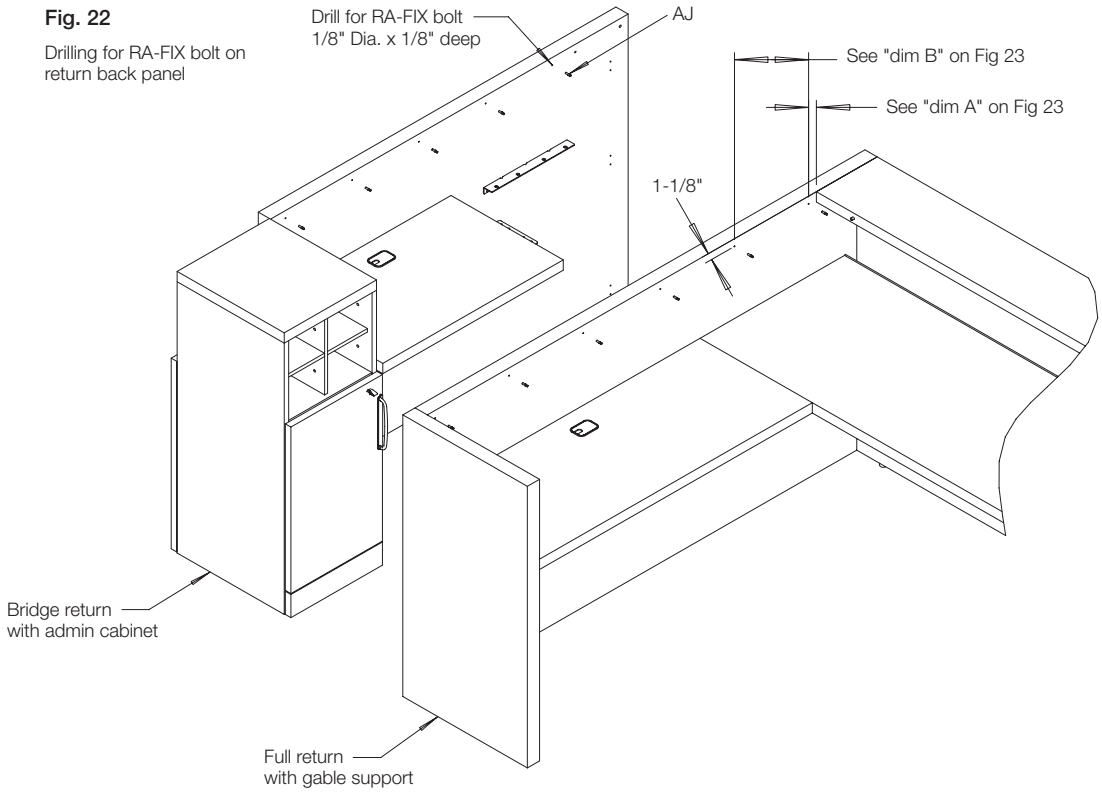


Fig. 22
Drilling for RA-FIX bolt on return back panel



Desk and Full/Bridge Returns

4. Desk and Full/Bridge Return Transaction Tops

Products:
RATTD..., RATT(F\B), RA(S\D)W..., RAFR...G...,
RABR... & RAC(L\R)H(CT)...(T\TT\TG)

Tools Needed
Measuring Tape
Phillips Square Driver
Rubber Mallet
1/8" Drill
5/16" Drill

Fig. 23

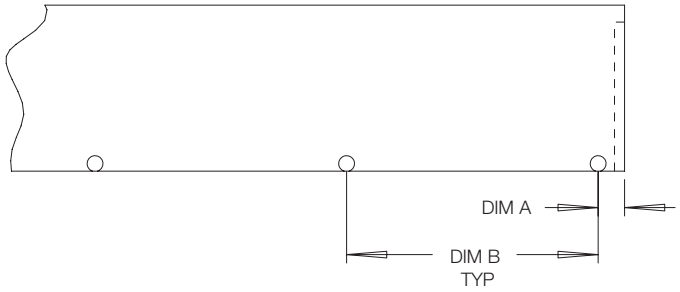


Fig. 24

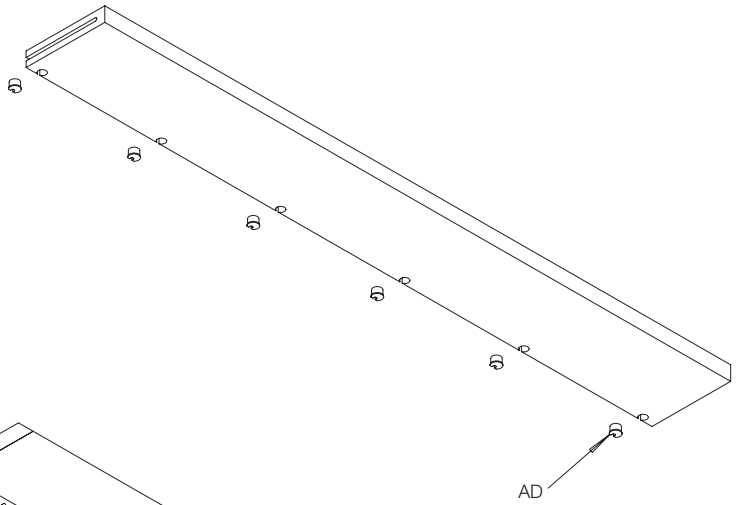
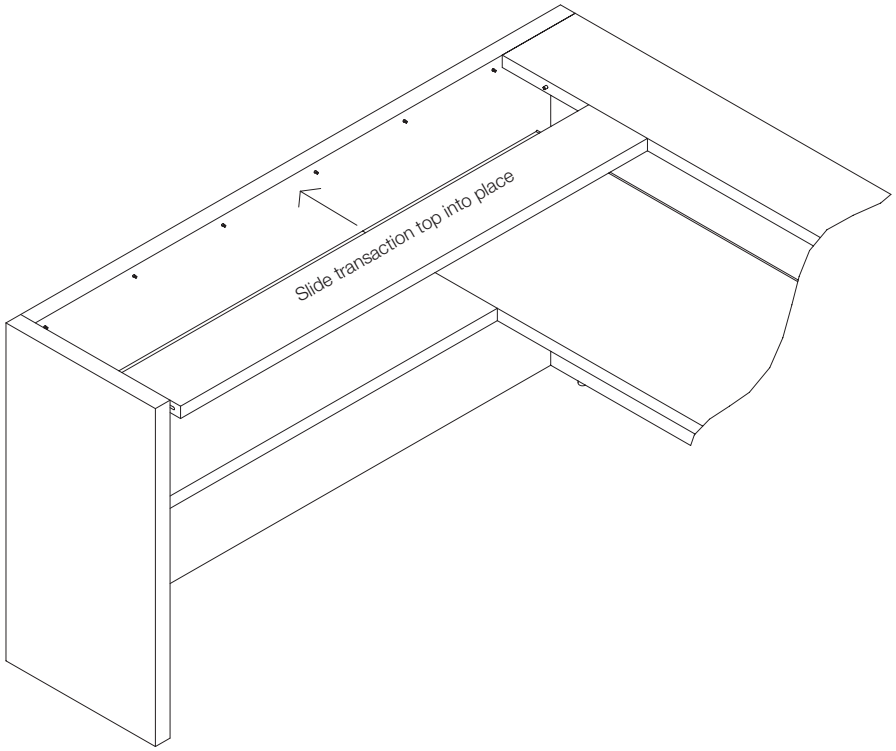


Fig. 25



Shared Returns

Products:
RASR..., RAES..., RADW...
& REFF LOWER STORAGE

Tools Needed
Measuring Tape
Phillips Square Driver
Rubber Mallet

See Figures 26-31

5.1. Return end support (RAES...) to shared return back panel (RASR...)

5.1.1 On return back panel, assemble multi-clip (AA) using fastener (AF) (2 places).

Note: Multi-clips on end support are factory installed.

5.1.2. Assemble end support to return back panel by inter-locking the multi-clips.

5.1.3. For 2-sided shared returns, repeat these steps for the other side.

5.2. If applicable, position lower storage units as required.

5.3. Assemble all support brackets (AC) using fastener (AG) except where storage elements cause an obstruction.

5.4. Position shared return work surfaces and secure them with fastener (AH) using the pilot holes on the bottom of work surfaces for proper positioning.

5.5. In the areas where the support bracket (AC) could not be installed due to the obstruction of lower storage units, it will be necessary to secure each lower storage unit using fastener (AR) 3-4 places. Field drilling, it is recommended to locate the first fastener 2" back from the gable of the lower storage unit. Install the remaining fasteners equally spaced along the same 2" horizontal plane.

5.6. Connect the desk and return work surfaces using mending plate (AB) with fastener (AK).

Fig. 26

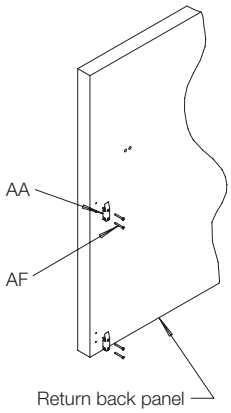


Fig. 27

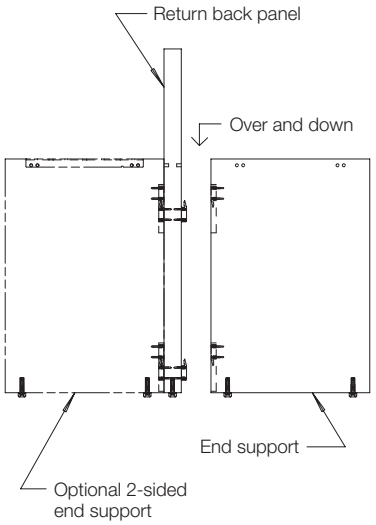
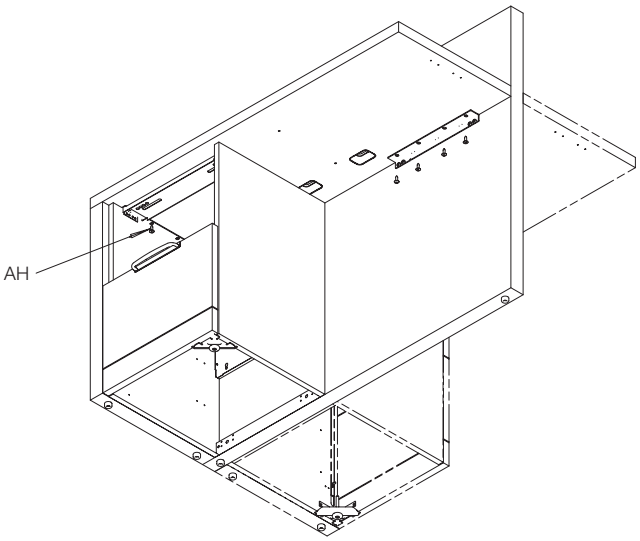


Fig. 28



Shared Returns

Products:
RASR..., RAES..., RADW...
& REFF LOWER STORAGE

Tools Needed
Measuring Tape
Phillips Square Driver

Fig. 29A
No lower storage

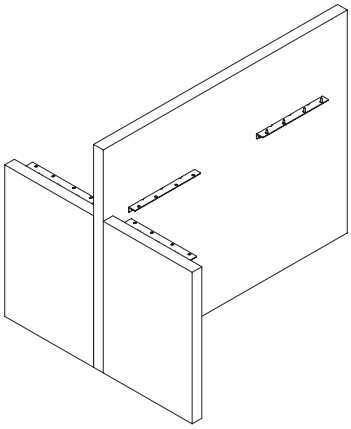


Fig. 29B
All lower storage

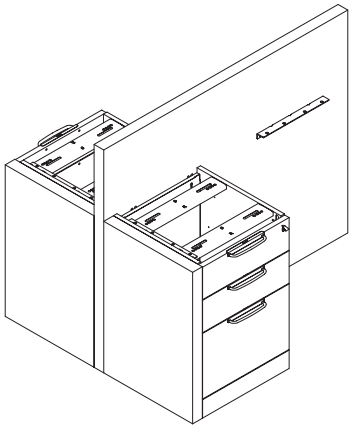


Fig. 29C
Mixed lower storage

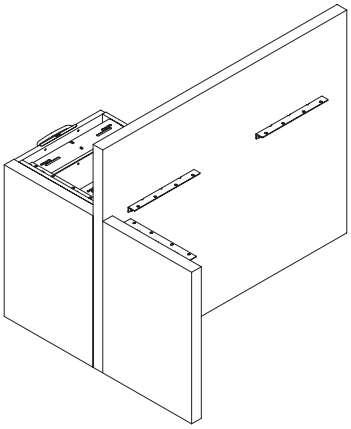


Fig. 30

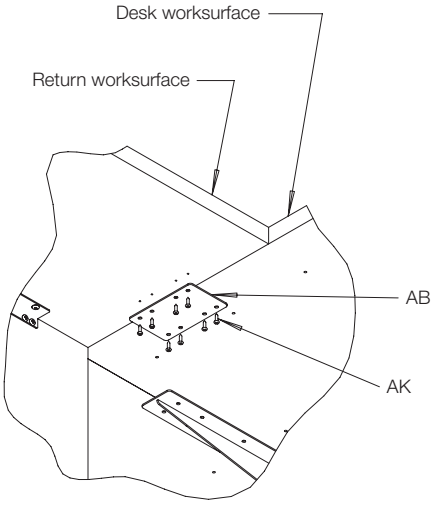


Fig. 31A
1-sided shared return

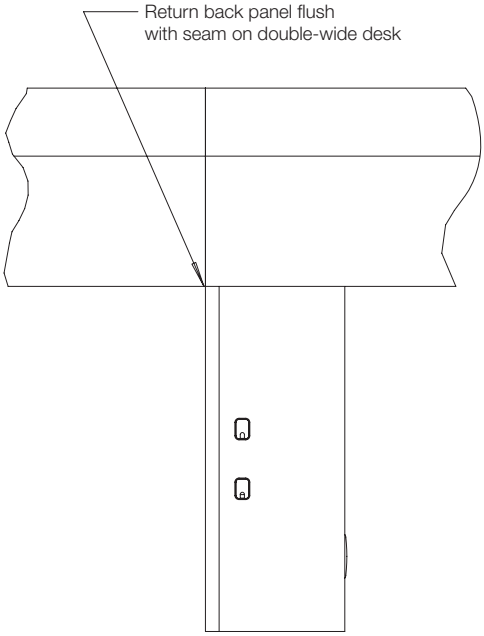
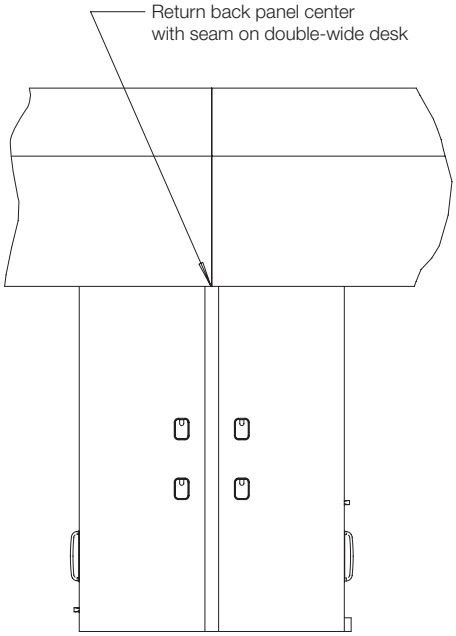


Fig. 31B
2-sided shared return



Island Peninsulas

Products:
RAIE..., RADW... & REFF LOWER STORAGE

Tools Needed
Measuring Tape
Phillips Square Driver

See Figures 32-36

6.1. On end support, attach disc plate (AZ) using fastener (AU) 3 places.

6.2. Assemble end support to work surface using fastener (BA).

6.3. Position lower storage as required, then place the work surface/end support sub-assembly on top securing the completed unit using fastener (AH).

Note: The completed assembly should be inset 12" from the edge of the desk when finally positioned.

Fig. 32

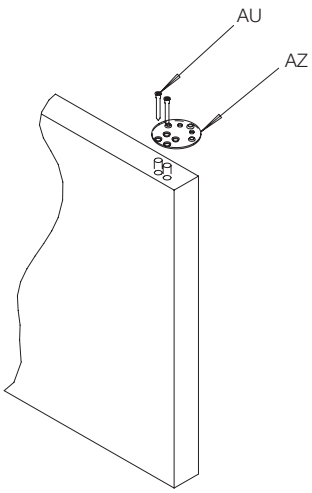


Fig. 33

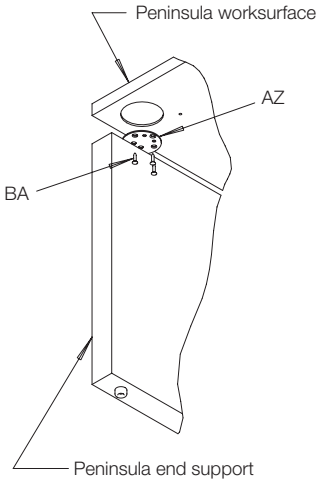


Fig. 34

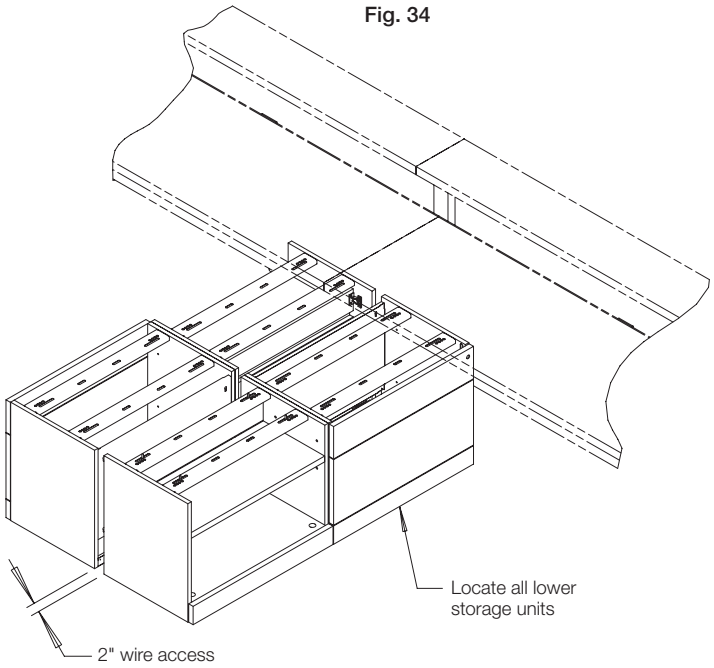


Fig. 35

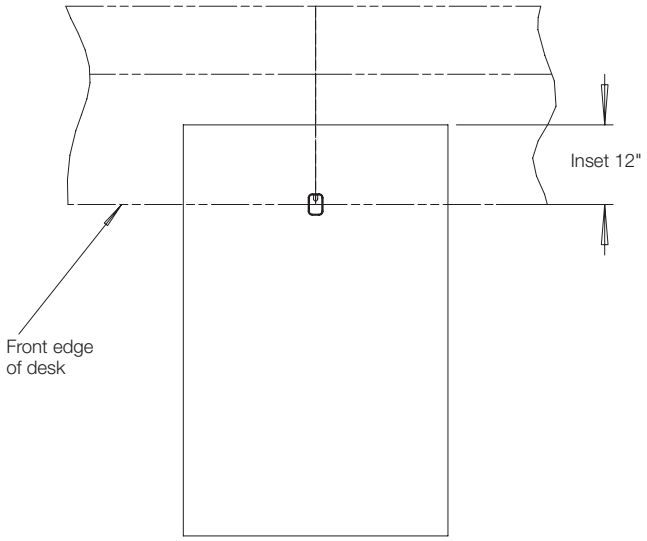
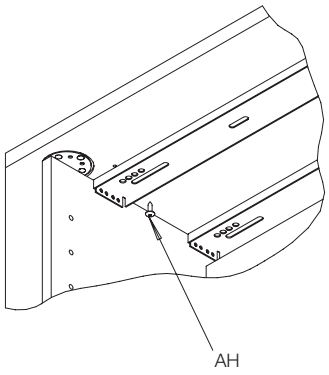


Fig. 36



Storage Cabinet

Products:
RAC(72\86)... & REFF LOWER STORAGE,
WORK SURFACES,
CABINETS & OVERHEAD BRIDGES

Tools Needed
Measuring Tape
Phillips Square Driver

See Figures 37-40

7.1. Build the credenza using Reff Profiles lower storage and work surfaces as required.

7.2. Position the admin storage cabinets and/or other Reff cabinets as required on either side of the credenza.

7.3. On the Reff Profiles overhead bridge, assemble mending plate (AB) with fastener (AG) at each end.

7.4. Carefully lower the overhead bridge into position between the supporting units until the mounting plates support the load of the overhead.

7.5. Insure all components are positioned as required for the application. The design intent is to flush the overhead with the front sides of the supports units but is not necessary if the end user wishes the overhead to be set back instead.

7.6. Using the pre-drills in the end gables of the overhead as a guide, drill 3/8" (9.0 mm) diameter holes in 4 places, each side through the mating end gables of the support units.

7.7. Using two 5.0 mm HEX keys, complete the connection using fasteners (AW) and (AX).

7.8. If applicable, build and position all other Reff admin product the layout may require.

Fig. 37

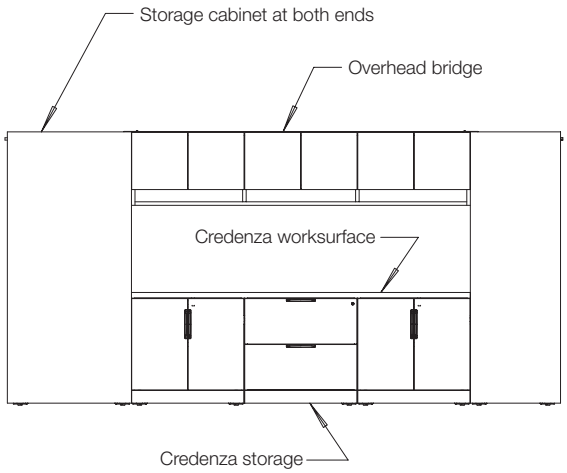


Fig. 38

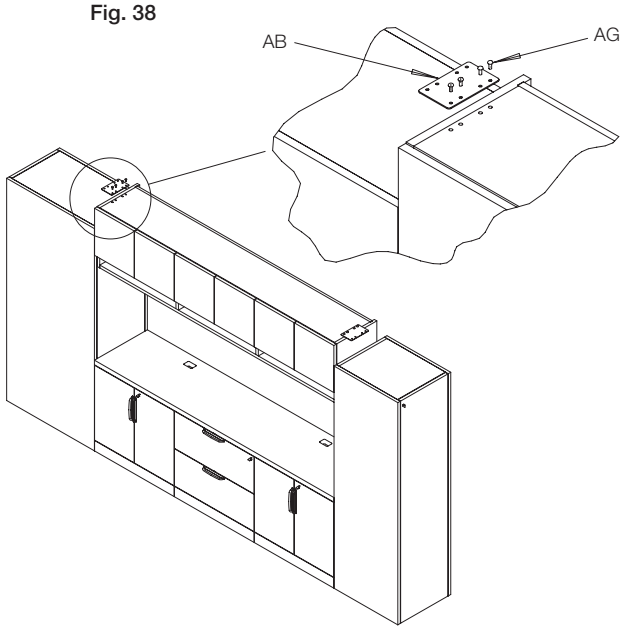


Fig. 39

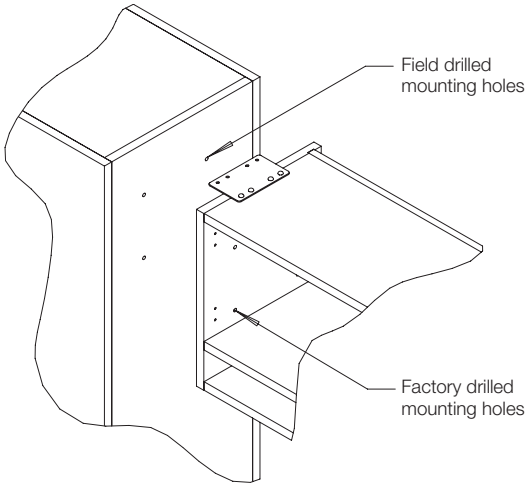
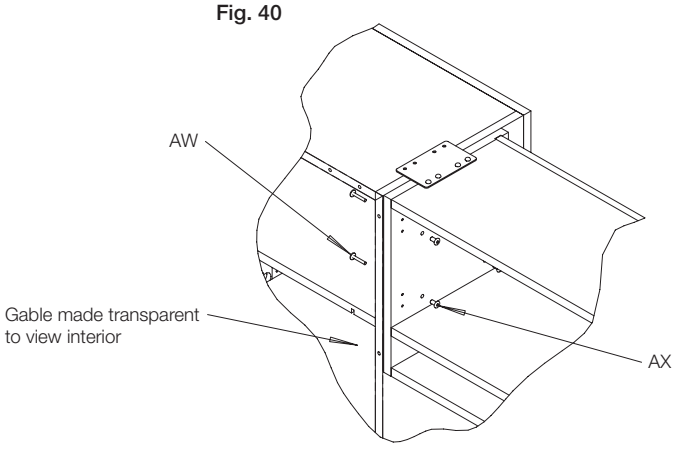


Fig. 40



Tackboards for Desks

Products:
RAWHDHTB..., RA(S\D)W...

Tools Needed
Measuring Tape

See Figures 41-43

8.1. Peel off the adhesive backer from the Velcro on the back of the tackboard.

8.2. Position the tackboard against the inside surface of the desk back panel and press firmly in the locations where the Velcro is.

Fig. 41

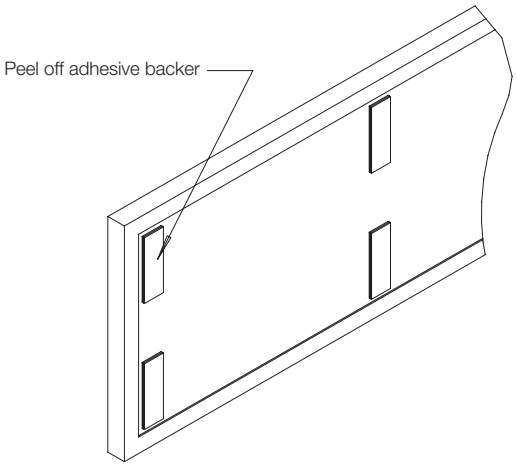


Fig. 42

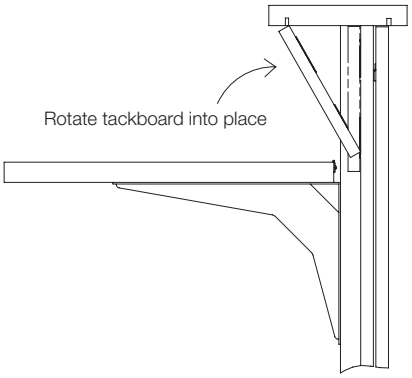
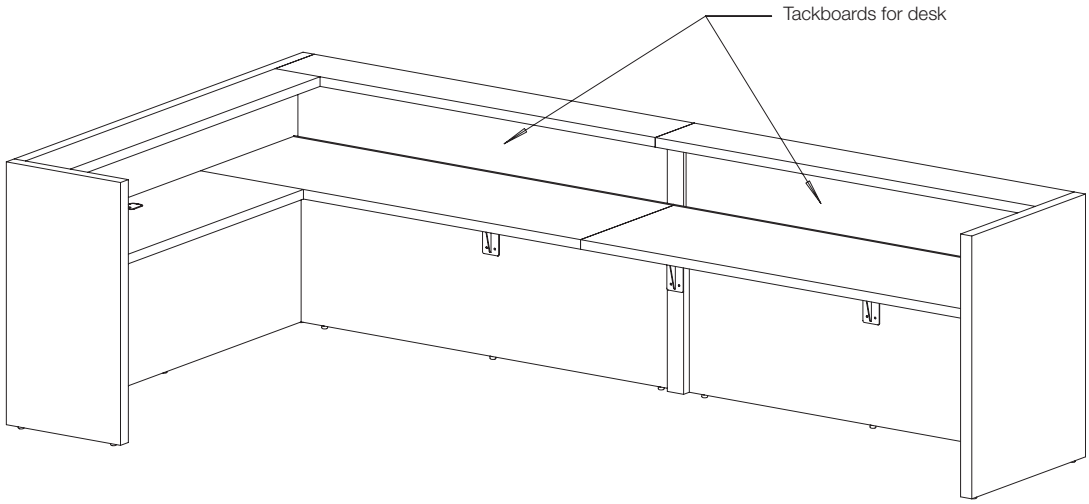


Fig. 43



Accent Tops

Products:
RAAT..., RA(S\D)W..., RAFR...G... & RABR...

Tools Needed
Measuring Tape

See Figures 44-45

9.1. In all four corners at a position inset approximately 1 each accent top.

9.2. Place the accent tops on top of the transaction tops as required.

Fig. 44

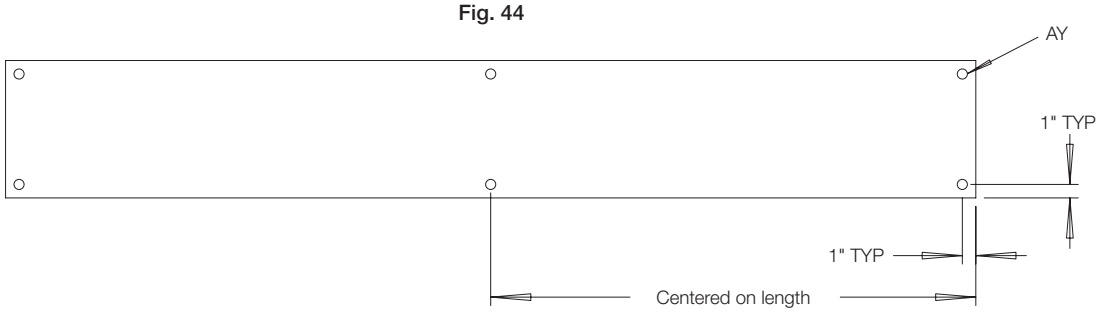


Fig. 45