Antenna® Telescope™
Installation Instructions and Parts Manual
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POWER RATING - 120VAC, 60Hz, 3.2A.

⚠️ WARNING - RISK OF INJURY
Max Load includes the weight of the table top(s). Loading is to be uniformly distributed.
Max Load (2-Leg Stations) 265 lbs / 120 kg.
Max Load (3-Leg Stations) 397 lbs / 180 kg.

⚠️ WARNING - RISK OF ELECTRIC SHOCK.
Furnishing may have multiple cords. Make sure all cords are unplugged before any servicing or cleaning.

⚠️ WARNING - RISK OF ELECTRIC SHOCK.
Connect this furnishing to a proper outlet only.

⚠️ WARNING - RISK OF FIRE AND SHOCK
Use only SJT type 18 AWG cords.

⚠️ WARNING - To reduce the risks of burns, fire, electric shock, or injury to persons: Use this motorized device only as an electrically height adjustable table desk, in accordance with Operating Instructions.

IMPORTANT SAFETY INSTRUCTIONS

Read all Instructions before using the Knoll Antenna® Telescope™ Motorized Table.
Perform all Installation Steps sequentially as described in this Manual.

⚠️ DANGER - To reduce the risk of electric shock:
1. Unplug all Telescope power cords from the electrical outlet before cleaning.

⚠️ WARNING - To reduce the risks of burns, fire, electric shock, or injury to persons:
1. Unplug all Telescope power cords from outlets before installing or removing component parts.
2. Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.
3. Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
4. Never operate this furnishing if it has a damaged cord or plug, if it is not working properly, if it has been dropped, damaged, or water-damaged. Return the furnishing to a service center for examination and repair.
5. Keep all Telescope cords away from heated surfaces.
6. Do not use outdoors.
7. Wiring (cord) channels should not be used for routing extension cords.
8. Flexible cords of accessories or portable furnishings should not be routed across one complete unit of work surface to another.
9. Electrically interconnected furnishings must be mechanically interconnected.
10. While routine maintenance checks & fastener adjustments are recommended, there are no user-serviceable component parts in the Telescope Motorized Table. Contact your Knoll Dealer or go to www.knoll.com for repair service guidance.

GROUNDING INSTRUCTIONS
Double Insulated or class 2 electrical products that have been designed not to require a safety connection to electrical earth (These products must NOT have a safety connection to Earth)

⚠️ CAUTION - These Telescope Motorized Height Adjustable Table configurations may have multiple power supply cords. Do not unplug only one power supply cord during movement, testing or repair of such configurations.

SAVE THESE INSTRUCTIONS
Using the Antenna® Telescope™
Installation Instructions and Parts Manual

An Overview
Each section of the Installation Instructions and Parts Manual contains information to guide you through Antenna® Telescope™ installations and to help you determine which parts you may need to order as replacements or to supplement reconfigurations.

Each page contains the following sections:
The Parts List section contains a lettered list of the essential component parts required for the application’s installation. Items required that may vary in size, (i.e. worksurfaces or rails), have not been lettered, and replacements should be ordered directly from the Price List or by contacting Field Services for the correct part.

The Tools Needed section contains a list of the installation tools that will be required on site for the proper installation of the application or configuration.

A Graphic Section has been included, to the right of the Parts List, depicting images of the component parts with lettered codes that correspond to those in the Parts List. Each part is shown with its associated part number above.

NOTE: Part numbers with an asterisk, i.e. *, after the number require a paint finish code to be added to the end of the pattern number to be orderable as a replacement part. Please refer to the Finish Code listing at the end of this page for the available codes.

NOTE: Part numbers with empty brackets, i.e. (_), after the pattern number indicate that a laminate or veneer finish code must be added to the end of the pattern number to be orderable as a replacement part. Please refer to the Finish Code listing in the Antenna™ Workspaces Price List for the available finish codes for those products.

Please note that not all parts are available in all finishes. Finish options available for component parts match those available when ordered with the complete items’ pattern number per the Antenna™ Workspaces Price List.

The Steps section details step-by-step instructions for the installation of the application selected. Each step includes references to the lettered items noted in the Parts List at the top of the page and in the graphic section.

A Drawings section follows the steps section providing detailed assembled and exploded drawings to further assist in installation and in determining replacement parts required.

How to Order Parts
1. Look in this document’s bookmarks to locate the configuration which best fits the application.
2. Go to the page where that application is described and thoroughly review all installation instructions to determine the part number(s) needed.
3. Unless otherwise noted, the standard package quantity is one (1). When ordering products where the quantity per package is listed, please indicate the number of packages required in the quantity column of your order.
4. Be sure to add "KR" to the beginning of each part number.
5. Be sure to include any finish codes required to complete the pattern number(s).
6. Complete a Knoll Service order, which can be sent to your Knoll Customer Service Representative.

If you have any questions about the contents of this manual, please call your Customer Service Representative or Field Service at 800-343-5665.

Paint Finish Codes:
111T - Jet Black
112T - Brown
113T - Dark Grey
114T - Folkstone Grey
115T - Medium Grey
116T - Sandstone
117T - Soft Grey
118T - Bright White
611T - Beige Metallic Mist
612T - Medium Metallic Grey
613T - Silver
130T - Dark Red
131T - Slate Blue
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Standard Electric

Pattern Numbers Represented:
- Telescope Base, Standard Electric, with Beam and Dual Trays, Standalone, **YBTESBTS**
- Telescope Base, Standard Electric, with Beam and Dual Trays, End, **YBTESBTE**
- Telescope Base, Standard Electric, with Beam and Dual Trays, Intermediate, **YBTESBTI**
- Telescope Base, Standard Electric, with Beam Only, Standalone, **YBTESBNS**
- Telescope Base, Standard Electric, with Beam Only, End, **YBTESBNB**
- Telescope Base, Standard Electric, with Beam Only, Intermediate, **YBTESBNI**

Parts List:
- Right Hand Column Leg (A)
- Left Hand Column Leg (B)
- Horizontal Rail Cradle (C)
- Cradle Clamp Bracket (D)
- Housing Cover (E)
- Transformer Shelf (F)
- Starter Crossbar (G) (varies – G1 beam, G2 beam with tray)
- H1: 3AF409103*
- G2: 3AF409105*
- Mid Crossbar (H) (varies – H1 beam, H2 beam with tray)
- H1: 3AF409104*
- H2: 3AF409106*
- Pull Block (I)
- Handset Control Switch (J) (varies – J1 Digital, J2 Standard up/down)
- J1 Digital: 3AF4103
- J2 Standard up/down: 3AF4102
- #6 x 5/8” Wood Screw (K)
- 5/16-18 x 1 1/4” Button Head Hex Machine Screw (L)
- 1/4-20 x 5/8” Flat Head Phillips Machine Screw (M)
- 5/16-18 x 3/4” Flat Head Hex Machine Screw (N)
- 5/16-18 x 2” Button Head Hex Machine Screw (O)
- 7528496
- 4A22212
- 4A22216
- 4A22214
- 7189140
- 4A22214
- 3AF4248
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Standard Electric

Parts List, con't:

Washer (P)  
Spacer (Q)  
#12 X 3/4" Flat Head Black Wood Screw (R)  
#14 x 1" Flat Head Wood Screw (S)  
Rail End Caps (T)  
Center Beam Mounting Plate (U)  
1/4-20 x 3/4" Button Head Machine Screw (V)  
M8-1.25 x 8mm Hex Set Screw (W)  
1/4 -20 x 5/8" Flanged Button Head Hex Machine Screw (X)  
Utility Tray Bracket (Y)  
M6-1 Spring Nut (Z)  
M6 – 1 x 14mm Flat Head Machine Screw (AA)  
Dovetail Linking Bracket (BB)  
1/4 -20 x 3/4" Flat Head Machine Screw (CC)  
Wire Hanger (DD)  
Connector Link (EE)  
iDrive Cable Kit: (Varies)  
31"= KRAE4027  
47"= KRAE4028  
63"= KRAE4029  
78"= KRAE4030  
Power Supply w/ Splitter: KR3AF5045  
Power Cord: KR68005498  
Splitter: KR3AF5044  
Rails  
Tops  
Center Beam  
Dual Utility Trays  

Tools Needed:

Power Driver  
Phillips #2 and #3  
Allen Wrench  
Rubber Mallet  
5/32", 3/16", 1/4" hex bit sockets  
Ratchet Torque Wrench (150 in-lb) for 3/16" Hex Bit Socket  
4mm Allen Wrench  
Level (or laser level)
Telescope Dual Table Bases with Beam
(with or without Dual Utility Trays) - Standard Electric

Dual Table Assembly With Beam
and Dual Utility, End Position, Plan View

Dual Table Assembly With Beam
and Dual Utility
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Standard Electric

CAUTION
Provided cords on this tray shall not be routed across or through more than either one complete unit.

Dual Table Assembly With Trays and Beam, End Position
Exploded View
Antenna Telescope Installation Instructions

Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Standard Electric

STEPS

Note: Before assembly, determine if table is "standalone", "end", or "intermediate" in application.

PREPARE LEGS & CROSSBARS:

1. Attach (2) Horizontal Rail Cradles (C) to the upper housing boxes on the Right Hand and Left Hand Column Leg Assemblies (A/B), with (2) 5/16-18 x 1 1/4" button head hex machine screws (L) per cradle.

2. Attach a Housing Cover (E) to the short end of each housing, using (2) 1/4-20 x 5/8" flat head Phillips machine screws (M) per cover.

3. Attach a Transformer Shelf (F) to the opposite side of each housing, using (2) 1/4-20 x 5/8" flat head Phillips machine screws (M) per shelf.

Note: Do not attempt to rotate the outer column tube unless the column is moving either upward or downward. If it is necessary to orient the welded column bracket, you must first, temporarily connect a power supply and handset. Then plug the power supply to building power. Depress the Up button to run the column upward, ONLY while the column is running, rotate the outer column tube to orient the bracket as shown in the above image. Lower the column and disconnect the power supply from the building power, then from the leg.
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Standard Electric

4. Determine requirement for Starter Crossbars (G) and/or Mid Crossbars (H), based on table application.

Note: The Starter Crossbars will have holes on the inside of them to accept the legs and beam (and utility trays, where specified). Mid Crossbars will have holes on both sides; i.e., the inside has holes for the legs and beam (and utility trays where specified), and the outside has holes for linking brackets.

5. For each required crossbar (G/H), place a Pull Block (I) into each end, and attach securely with (2) 5/16-18 x 3/4" flat head hex machine screws (N) per pull block in the underside of the crossbar.

CONNECT BEAM TO CROSSBARS

6. Ensure the crossbars are oriented right side up and so the insides are facing one another. Attach a Center Beam Mounting Plate (U) to the inside of each crossbar, using (4) 1/4-20 x 3/4" button head machine screws (V) per plate. Insert M8-1 1/4 x 8mm hex set screws (W) into both tabs on the sides of both plates (U), such that the hex recesses are outward.

7. Ensure the Center Beam is oriented correctly (the top of the beam has a slot within a deep recess, the bottom of the beam has a slot within a wide recess), mate the beam to one of the mounting plates (U), and secure by tightening the set screws (W) with a 4mm hex driver. Repeat for the other end.

8. Turn the large beam/crossbar “I” assembly upside down. Position the (4) legs upside down as well, and in their relative positions at the ends of the crossbars.

CONNECT CROSSBARS TO LEGS

9. With the legs upside down, connect the leg assemblies to the crossbars by sliding the ends of the crossbars onto the welded column brackets, and joining with (2) 5/16-18 x 3/4" flat head hex machine screws (N), loosely, into each bracket. Do not tighten at this time. Allow the screws to seat in the counter sinks and perform the next steps.

10. Place a washer (P) on a 5/16-18 x 2" button head hex machine screw (O) and insert it into the bottom of the crossbar at an angle to penetrate the pull block and thread into the column bracket. Torque screw to 150 in. lbs. (17 Nm). Repeat for the three other crossbar ends. Tighten the (4) pairs of flat head machine screws previously left loose. Turn assembly right side up.
11. Install (8) Rail End Caps (T) onto the ends of the rails using a rubber mallet.

12. Prepare the leg cradles for the rails by fastening (2) Cradle Clamp Brackets (D) loosely to each cradle (C) using (4) ¼-20 x 5/8” flat head Phillips machine screws (M) per cradle.

Note: The cradle clamp brackets (D) are ALWAYS to be placed in the outer position in the cradle (C), and the end is to be flush with the face of the housing cover (E).

13. Slide the ends of (4) rails into the cradles on a crossbar assembly. Position the rails so that the end cap (T) sticks out past the cradle by ¼”.

Note: The original Antenna install gauge is to be used to set Telescope rail positions.

14. Tighten the screws (M) in the cradle clamp brackets (D).

15. Slide the free ends of the rails into the opposite crossbar assembly and repeat the above tightening procedure.
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Standard Electric

INSTALL UTILITY TRAYS (WHERE APPLICABLE)

16. Insert (2) pairs of 1/4 -20 x 5/8” flanged button head hex machine screws (X) loosely into the threaded inserts on the inner face of the crossbars. Leave a gap of about 3/16" beneath the head of the screws. Slip the Utility Tray between the crossbars and engage the upper screws into the upper slot on the tray end plate. Rotate the tray so the lower screws engage the bottom slot. Tighten the screws with an Allen wrench.

17. Insert a M6-1 spring nut (Z), centered, into the slot on the side of the center beam. Position a Utility Tray Bracket (Y) in front of the spring nut (Z) and engage the back edge of the utility tray within the grooves of the tray bracket. Fasten the tray bracket to the spring nut with a M6 – 1 x 14mm flat head machine screw (AA). Repeat for the other side of the center beam.

INSTALL THE HEIGHT ADJUSTMENT ELECTRICAL COMPONENTS

18. For each station, decide if the Handset Control Switch (J) will be on the left or right side of the table. Plug the handset cable into a housing outlet on the chosen side. Connect one end of the iDrive Cable into the second outlet on that side.

Note: The latest Power Supply blocks access to the housing outlets when it is placed on the Transformer Shelf; use of a splitter cable is needed. The splitter fits into the one housing port and provides two ports out past the Power Supply.

19. Insert splitter into one housing port. Plug the iDrive cable from the opposite leg into one splitter port.

20. Insert the power cord into the power supply and position the power supply on the Transformer Shelf (F) so that the red LED is visible from below. Plug the power supply into the other splitter port.

PERFORM A RESET FOR THE PAIR OF COLUMNS IN EACH STATION:

21. Plug the power supply into a temporary power source. Ensure the red LED on the power supply lights.

22. Apply approximately 100 lbs of weight to the rails. Press and hold both UP and DOWN buttons for ten seconds. After releasing the buttons, press and hold the DOWN BUTTON until both columns bottom out. Press the UP button and the station will be ready to perform normally. Remove the weight. Run the station all the way up and down again to ensure there are no issues with the columns.

Repeat the procedure above for the opposite pair of columns.
Telescope Dual Table Bases with Beam
(with or without Dual Utility Trays) - Standard Electric

ATTACH CONNECTOR LINKS/CONNECT TABLES (WHERE APPLICABLE)

23. Attach (2) Dovetail Linking Brackets (BB) to the outside of the crossbar using (2) 1/4-20 x 3/4" flat head machine screws (CC). The base of the “L” should be oriented downward.

24. Prepare the Connector Link (EE) for the Wire Hanger (DD) by loosely screwing (2) 1/4-20 x 3/4" button head machine screws (V) into the underside of the connector link. Leave a gap of about 3/16" beneath the head of the screws. Place the wire hanger over the heads of the screws and slide to engage the keyhole slots.

LEVEL TABLES

25. To connect tables, position both table assemblies side by side so the prepared connector links (EE) can be slid down onto the linking brackets (BB) previously attached to the crossbars. Fasten the connector links to the linking brackets with a 1/4-20 x 3/4" flat head machine screw (CC).

INSTALL TOPS

28. Lay tops on base assembly. Place a Spacer (Q) between the top of each rail and the underside of the top, centered on the width of the top. Spacers are attached to the top using (1) #12 X 3/4" flat head black wood screw (R) per spacer.

Note: Back to back tops are to be 6" apart.

29. Attach tops using (4) #14 x 1" flat head wood screws (S) per cradle.

Note: Several screw hole locations are directly above the crossbars, so it is convenient to raise the station to make room for the power driver.
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Standard Electric

AFFIX HANDSET

Note: If a return is to be attached, skip this step and follow Telescope Return Base Installation Instructions.

30. Using (2) #6 x 5/8" wood screws (K) mount the Handset Control Switch (J) to the underside of the worktop, at the front edge.

ATTACH RETURNS (WHERE APPLICABLE)
See Telescope Return Base Installation Instructions.

INSTALL POWER STRIP ACCESSORY (WHERE APPLICABLE)
See Power Strip Installation Instructions.

INSTALL CLEAT PLATE & CLEAT PLATE COVER ACCESSORIES (WHERE APPLICABLE)
See Cleat Plate and Cleat Plate Cover Installation Instructions.

INSTALL Z-MANAGER ACCESSORY (WHERE APPLICABLE)
See Z-Manager Installation Instructions.
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Extended Electric

Pattern Numbers Represented:
Telescope Base, Extended Electric, with Beam and Dual Trays, Standalone, **YBTEXBTS**.
Telescope Base, Extended Electric, with Beam and Dual Trays, End, **YBTEXBTE**.
Telescope Base, Extended Electric, with Beam and Dual Trays, Intermediate, **YBTEXBTI**.
Telescope Base, Extended Electric, with Beam Only, Standalone, **YBTEXBNS**.
Telescope Base, Extended Electric, with Beam Only, End, **YBTEXBNE**.
Telescope Base, Extended Electric, with Beam Only, Intermediate, **YBTEXBNI**.

Parts List:
- Right Hand Column Leg (A)
- Left Hand Column Leg (B)
- Horizontal Rail Cradle (C)
- Cradle Clamp Bracket (D)
- Housing Cover (E)
- Transformer Shelf (F)
- Starter Crossbar (G)
- Mid Crossbar (H)
- Pull Block (I)
- Handset Control Switch (J)
- #6 x 5/8" Wood Screw (K)
- 5/16-18 x 1 1/4" Button Head Hex Machine Screw (L)
- 1/4-20 x 5/8" Flat Head Phillips Machine Screw (M)
- 5/16-18 x 3/4" Flat Head Hex Machine Screw (N)
- 5/16-18 x 2" Button Head Hex Machine Screw (O)
- (A) Right Hand Leg 3AF4023*
- (B) Left Hand Leg 3AF4024*
- (C) 3AF4004*
- (D) 3AB4007*
- (E) 3AF4003*
- (F) 3AF4002*
- (G) Starter crossbar (varies – G1 beam, G2 beam with tray G1: 3AF404703* G2: 3AF404705*)
- (H) Mid crossbar (varies - H1 beam, H2 beam with tray) H1: 3AF404704* H2: 3AF404706*
- (I) 3AF4060
- (J) Handset Control Switch
- (K) 7528496
- (L) 4A22212
- (M) 7189140
- (N) 4A22216
- (O) 4A22214
- (P) Toggle Handset: 3AF4248
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Extended Electric

Parts List, con't:
- Washer (P) 4A22215
- Spacer (Q) 3AB401252
- #12 X 3/4" Flat Head Black Wood Screw (R) 7196440
- #14 x 1" Flat Head Wood Screw (S) 7434100
- Rail End Caps (T) 3AB4000*
- Center Beam Mounting Plate (U) 3AF4017*
- 1/4-20 x 3/4" Button Head Machine Screw (V) 7283140
- M8-1.25 x 8mm Hex Set Screw (W) 4A22218
- 1/4 -20 x 5/8" Flanged Button Head Hex Machine Screw (X) 4A22222
- Utility Tray Bracket (Y) 3AF4048*
- M6-1 Spring Nut (Z) 3AB402196
- M6 – 1 x 14mm Flat Head Machine Screw (AA) 3AB405640
- Dovetail Linking Bracket (BB) 3AF4009
- 1/4 -20 x 3/4" Flat Head Machine Screw (CC) 7418440
- Wire Hanger (DD) 3AF4090
- Connector Link (EE) 3AF4010*

iDrive Cable Kit: (Varies)
- 31"= KRAE4027
- 47"= KRAE4028
- 63"= KRAE4029
- 78"= KRAE4030

Power Supply w/ Splitter: KR3AF5045
- Power Cord: KR68005498
- Splitter: KR3AF5044

Rails
- Tops
- Center Beam
- Dual Utility Trays

Tools Needed:
- Power Driver
- Phillips #2 and #3
- Allen Wrench
- Rubber Mallet
- 5/32", 3/16", 1/4" hex bit sockets
- Ratchet Torque Wrench (150 in-lb) for 3/16" Hex Bit Socket
- 4mm Allen Wrench
- Level (or laser level)
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Extended Electric

Dual Table Assembly With Beam and Dual Utility, End Position, Plan View

Dual Table Assembly With Beam and Dual Utility
Telescope Dual Table Bases with Beam
(with or without Dual Utility Trays) - Extended Electric

Dual Table Assembly With Trays and Beam, End Position
Exploded View
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Extended Electric

**STEPS**

**Note:** Before assembly, determine if table is "standalone", "end", or "intermediate" in application.

**PREPARE LEGS & CROSSBARS:**

1. Attach (2) Horizontal Rail Cradles (C) to the upper housing boxes on the Right Hand and Left Hand Column Leg Assemblies (A/B), with (2) 5/16-18 x 1 1/4" button head hex machine screws (L) per cradle.

2. Attach a Housing Cover (E) to the short end of each housing, using (2) 1/4-20 x 5/8" flat head Phillips machine screws (M) per cover.

3. Attach a Transformer Shelf (F) to the opposite side of each housing, using (2) 1/4-20 x 5/8" flat head Phillips machine screws (M) per shelf.

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Antenna Telescope Installation Instructions

Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Extended Electric

4. Determine requirement for Starter Crossbars (G) and/or Mid Crossbars (H), based on table application.

**Note:** The Starter Crossbars will have holes on the inside of them to accept the legs and beam (and utility trays, where specified). Mid Crossbars will have holes on both sides; i.e., the inside has holes for the legs and beam (and utility trays where specified), and the outside has holes for linking brackets.

5. For each required crossbar (G/H), place a Pull Block (I) into each end, and attach securely with (2) 5/16-18 x 3/4” flat head hex machine screws (N) per pull block in the underside of the crossbar.

6. Ensure the crossbars are oriented right side up and so the insides are facing one another. Attach a Center Beam Mounting Plate (U) to the inside of each crossbar, using (4) 1/4-20 x 3/4” button head machine screws (V) per plate. Insert M8-1 1/4 x 8mm hex set screws (W) into both tabs on the sides of both plates (U), such that the hex recesses are outward.

7. Ensure the Center Beam is oriented correctly (the top of the beam has a slot within a deep recess, the bottom of the beam has a slot within a wide recess), mate the beam to one of the mounting plates (U), and secure by tightening the set screws (W) with a 4mm hex driver. Repeat for the other end.

8. Turn the large beam/crossbar “I” assembly upside down. Position the (4) legs upside down as well, and in their relative positions at the ends of the crossbars.

9. With the legs upside down, connect the leg assemblies to the crossbars by sliding the ends of the crossbars onto the welded column brackets, and joining with (2) 5/16-18 x 3/4” flat head hex machine screws (N), loosely, into each bracket. Do not tighten at this time. Allow the screws to seat in the counter sinks and perform the next steps.

10. Place a washer (P) on a 5/16-18 x 2” button head hex machine screw (O) and insert it into the bottom of the crossbar at an angle to penetrate the pull block and thread into the column bracket. Torque screw to 150 in. lbs. (17 Nm). Repeat for the three other crossbar ends. Tighten the (4) pairs of flat head machine screws previously left loose. Turn assembly right side up.

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11. Install (8) Rail End Caps (T) onto the ends of the rails using a rubber mallet.

12. Prepare the leg cradles for the rails by fastening (2) Cradle Clamp Brackets (D) loosely to each cradle (C) using (4) 1/4-20 x 5/8" flat head Phillips machine screws (M) per cradle.

**Note:** The cradle clamp brackets (D) are ALWAYS to be placed in the outer position in the cradle (C), and the end is to be flush with the face of the housing cover (E).
13. Slide the ends of (4) rails into the cradles on a crossbar assembly. Position the rails so that the end cap (T) sticks out past the cradle by ¼”.

   **Note:** The original Antenna install gauge is to be used to set Telescope rail positions.

14. Tighten the screws (M) in the cradle clamp brackets (D).

15. Slide the free ends of the rails into the opposite crossbar assembly and repeat the above tightening procedure.

**INSTALL UTILITY TRAYS (WHERE APPLICABLE)**

16. Insert (2) pairs of 1/4 -20 x 5/8” flanged button head hex machine screws (X) loosely into the threaded inserts on the inner face of the crossbars. Leave a gap of about 3/16” beneath the head of the screws. Slip the Utility Tray between the crossbars and engage the upper screws into the upper slot on the tray end plate. Rotate the tray so the lower screws engage the bottom slot. Tighten the screws with an Allen wrench.

17. Insert a M6-1 spring nut (Z), centered, into the slot on the side of the center beam. Position a Utility Tray Bracket (Y) in front of the spring nut (Z) and engage the back edge of the utility tray within the grooves of the tray bracket. Fasten the tray bracket to the spring nut with a M6 – 1 x 14mm flat head machine screw (AA).

   Repeat for the other side of the center beam.

**INSTALL THE HEIGHT ADJUSTMENT ELECTRICAL COMPONENTS**

18. For each station, decide if the Handset Control Switch (J) will be on the left or right side of the table. Plug the handset cable into a housing outlet on the chosen side. Connect one end of the iDrive Cable into the second outlet on that side.

   **Note:** The latest Power Supply blocks access to the housing outlets when it is placed on the Transformer Shelf; use of a splitter cable is needed. The splitter fits into the one housing port and provides two ports out past the Power Supply.

19. Insert splitter into one housing port. Plug the iDrive cable from the opposite leg into one splitter port.

20. Insert the power cord into the power supply and position the power supply on the Transformer Shelf (F) so that the red LED is visible from below. Plug the power supply into the other splitter port.

**PERFORM A RESET FOR THE PAIR OF COLUMNS IN EACH STATION:**

21. Plug the power supply into a temporary power source. Ensure the red LED on the power supply lights.

22. Apply approximately 100 lbs of weight to the rails. Press and hold both UP and DOWN buttons for ten seconds. After releasing the buttons, press and hold the DOWN BUTTON until both columns bottom out. Press the UP button and the station will be ready to perform normally. Remove the weight. Run the station all the way up and down again to ensure there are no issues with the columns. Repeat the procedure above for the opposite pair of columns.
Telescope Dual Table Bases with Beam (with or without Dual Utility Trays) - Extended Electric

ATTACH CONNECTOR LINKS/ CONNECT TABLES (WHERE APPLICABLE)

23. Attach (2) Dovetail Linking Brackets (BB) to the outside of the crossbar using (2) 1/4 -20 x 3/4” flat head machine screws (CC). The base of the “L” should be oriented downward.

24. Prepare the Connector Link (EE) for the Wire Hanger (DD) by loosely screwing (2) 1/4-20 x 3/4” button head machine screws (V) into the underside of the connector link. Leave a gap of about 3/16” beneath the head of the screws. Place the wire hanger over the heads of the screws and slide to engage the keyhole slots.

25. To connect tables, position both table assemblies side by side so the prepared connector links (EE) can be slid down onto the linking brackets (BB) previously attached to the crossbars. Fasten the connector links to the linking brackets with a 1/4 -20 x 3/4” flat head machine screw (CC).

LEVEL TABLES

26. Place the tables in their final positions and level by extending the leveling glides as needed.

27. When levelers are extended more than 1/2”, install the Helical Glide Shroud. See Helical Glide Installation Instructions.

INSTALL TOPS

28. Lay tops on base assembly. Place a Spacer (Q) between the top of each rail and the underside of the top, centered on the width of the top. Spacers are attached to the top using (1) #12 x 3/4” flat head black wood screw (R) per spacer.

Note: Back to back tops are to be 6” apart.

29. Attach tops using (4) #14 x 1” flat head wood screws (S) per cradle.

Note: Several screw hole locations are directly above the crossbars, so it is convenient to raise the station to make room for the power driver.

AFFIX HANDSET

Note: If a return is to be attached, skip this step and follow Telescope Return Base Installation Instructions.

30. Using (2) #6 x 5/8” wood screws (K) mount the Handset Control Switch (J) to the underside of the worktop, at the front edge.

ATTACH RETURNS (WHERE APPLICABLE)

See Telescope Return Base Installation Instructions.

INSTALL POWER STRIP ACCESSORY (WHERE APPLICABLE)

See Power Strip Installation Instructions.

INSTALL CLEAT PLATE & CLEAT PLATE COVER ACCESSORIES (WHERE APPLICABLE)

See Cleat Plate and Cleat Plate Cover Installation Instructions.

INSTALL Z-MANAGER ACCESSORY (WHERE APPLICABLE)

See Z-Manager Installation Instructions.
Telescope Dual Table Bases with Mixed or Fixed Base

Pattern Numbers Represented:
Telescope Base, Fixed Height, YBTFS_ _ _ _ _
Telescope Base, Mixed Standard Electric and Fixed Height, YBTFES_ _ _ _ _

Parts List:
Right Hand Fixed Column Leg Assembly
Left Hand Fixed Column Leg Assembly
Ballast Kit

Additional Parts:
See Parts List from Telescope Dual Table Bases with Beam (with or without Dual Utility Trays)

Tools Needed:
See Parts List from Telescope Dual Table Bases with Beam (with or without Dual Utility Trays)

STEPS

NOTE: The following instructions are to be used in conjunction with the installation instructions for Telescope Dual Table Bases with Beam (with or without Dual Utility Trays). The instructions below only address the slight modification required for the preparation of the fixed leg assembly.

TO PREPARE FIXED LEGS:

1. Drop one ballast kit into both the Right Hand and Left Hand Column Leg Assemblies. DO NOT REMOVE THE BALLAST FROM THE BAG.

TO CONTINUE INSTALLATION:

Follow steps 1-5 to prepare legs & crossbars.
Follow steps 6-8 to connect beam to crossbars.
Follow steps 9-10 to connect crossbars to legs.
Follow steps 11-12 to install rails.
Follow steps 13-14 to install utility trays (where applicable).
Follow steps 20-22 to attach connector links/connect tables (where applicable).
Follow steps 23-24 to level tables.
Follow steps 25-26 to install tops.
Telescope Dual Table Bases
with Mixed or Fixed Base

Dual Table Assembly with Mixed Base,
Plan View
Telescope Dual Table Bases
with Mixed or Fixed Base

Dual Table Assembly with Mixed Base,
Axonometric View

Drop Ballast into Column Leg Assembly. Do not remove it from the bag.

Fixed Column Leg Detail

Left Hand Fixed Column Leg Assembly

Right Hand Fixed Leg Assembly

Fixed Side

Electric, Height, Adjustable Side
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

Pattern Numbers Represented:
Telescope Single Sided Base, Height Adjustable Standard Electric, **YBTSSFEBNN**
Telescope Single Sided Base, Height Adjustable Extended Electric, **YBTSSFEBN**
Telescope Single Sided Base, Height Adjustable Standard Electric, with Beam and Tray, Standalone, **YBTSSFEBTN**
Telescope Single Sided Base, Height Adjustable Extended Electric, with Beam and Tray, Standalone, **YBTSSFEBTN**

Parts List:
Right Hand Column Leg Assembly (A)
Left Hand Column Leg Assembly (B)
Single Sided Crossbar, LH/RH (C)
Horizontal Rail Cradle (D)
Cradle Clamp Bracket (E)
Housing Cover (F)
Transformer Shelf (G)
Pull Block (H)
Handset Control Switch (I)
#6 x 5/8" Wood Screw (J)
5/16-18 x 1.25" Button Head Hex Machine Screw (K)
1/4-20 x 5/8" Flat Head Phillips Machine Screw (L)
5/16-18 x .75" Flat Head Hex Machine Screw (M) 5/16-
18 x 2" Button Head Hex Machine Screw (N)
Washer (O)
Spacer (P)
#12 x 3/4" Flat Head Black Wood Screw (Q)
#14 x 1" Flat Head Wood Screw (R)

(J) 7528496
(K) 4A22212
(L) 7189140
(M) 4A22216
(N) 4A22214
(O) 4A22215
(F) 3AB401252
(Q) 7196440
(R) 7434100
(S) Toggle Handset: 3AF4248

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Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

**Parts List, con’t:**
- Rail End Caps (S)
- Center Beam Mounting Plate (T)
- ¼-20 x .75” Button Head Machine Screw (U)
- M8-1.25 x 8mm Hex Set Screw (V)
- ¼ -20 x 5/8” Flanged Button Head Hex Machine Screw (W)
- Utility Tray Bracket (X)
- M6-1 Spring Nut (Y)
- M6 - 1 x 14mm Flat Head Machine Screw (Z)
- Single Sided Back Panel Crossbar Bracket, LH (AA)
- Single Sided Back Panel Crossbar Bracket, RH (BB)
- ¼-20 x ¾” Flat Head Phillips Machine Screw (CC)
- 5/16-18 x .75” Button Head Hex Machine Screw (DD)
- Single Sided Centerbeam Bracket (EE)
- M6-10mm Button Head Hex Machine Screw (FF)

**iDrive Cable Kit (Varies)**
- 31” = KRAE4027
- 47”= KRAE4028
- 63”= KRAE4029
- 78”= KRAE4030)
- Power Supply w/ Splitter: KR3AF5045
- Power Cord (KR68005498)
- Splitter: KR3AF5044
- P-Clamp Kit (not shown)

**Tools Needed:**
- Power Driver
- Phillips #2 and #3 Bits
- 5/64", 3/32", ¼" hex bit sockets
- Ratchet Torque Wrench (150 in-lb) for 3/16” Hex Bit Socket
- 4mm Allen Wrench
- Level (or laser level)
- Rubber Mallet
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

Single Sided Table Assembly with Beam and Utility Tray Plan View

Single Sided Table Assembly with Beam and Utility Tray, Axonometric View
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

Exploded Single Sided Table Base Assembly with Beam and Utility Tray, Overview
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

**STEPS**

**PREPARE LEGS & CROSSBARS:**

1. Attach (2) Horizontal Rail Cradles (D) to the upper housing boxes on the Right Hand and Left Hand Column Leg Assemblies (A/B), with (2) 5/16-18 x 1.25" button head hex machine screws (K) per cradle.

2. Attach a Housing Cover (F) to the short end of each housing, using (2) ¼-20 x 5 ½" flat head Phillips machine screws (L) per cover.

3. Attach a Transformer Shelf (G) to the opposite side of each housing, using (2) ¼-20 x 5 ½" flat head Phillips machine screws (L) per shelf.

**NOTE:** Do not attempt to rotate the outer column tube unless the column is moving either upward or downward. If it is necessary to orient the welded column bracket, you must first, temporarily connect a power supply and handset. Then plug the power supply to building power. Depress the Up button to run the column upward, ONLY while the column is running, rotate the outer column tube to orient the bracket as shown in the above image. Lower the column and disconnect the power supply from the building power, then from the leg.
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

4. Locate & distinguish left and right hand Single Sided Crossbars (C), based on table application.

**NOTE:** The Single Sided Crossbars for stand-alone applications will have holes on the inner side to accept the legs at front and beam at back (and utility trays in center, where specified).

5. For each required crossbar (C), place a Pull Block (H) into the end, and attach securely with (2) \( \frac{5}{16} \times 0.75 \) flat head hex machine screws (M) per pull block in the underside of the crossbar.

**CONNECT BEAM TO CROSSBARS:**

6. Ensure the crossbars are oriented right side up and so the inner sides are facing one another. Attach a Center Beam Mounting Plate (T) to the inner side of each crossbar, using (4) \( \frac{1}{4} - 20 \times .75 \) button head machine screws (U) per plate. Insert M8-1.25 x 8mm hex set screws (V) into both tabs on the sides of both plates (T), such that the hex recesses are outward.

7. Ensure the Center Beam is oriented correctly (the top of the beam has a slot within a deep recess, the bottom of the beam has a slot within a wide recess), mate the beam to one of the mounting plates (T), and secure by tightening the set screws (V) with a 4mm hex driver. Repeat for the other end.

8. Turn the large beam/crossbar “U” assembly upside down. Position the (2) legs upside down as well, and in their relative positions at the ends of the crossbars.

**CONNECT CROSSBARS TO LEGS:**

9. With the legs upside down, connect the leg assemblies to the crossbars by sliding the ends of the crossbars onto the welded column brackets, and joining with (2) \( \frac{5}{16} - 18 \times .75 \) flat head hex machine screws (M), loosely, into each bracket. Do not tighten at this time. Allow the screws to seat in the counter sinks and perform the next steps.

10. Place a washer (O) on a \( \frac{5}{16} - 18 \times 2 \) button head hex machine screw (N) and insert it into the bottom of the crossbar at an angle to penetrate the pull block and thread into the column bracket. Torque screw to 150 in. lbs. (17 Nm). Repeat for the other crossbar end. Tighten the (2) pairs of flat head machine screws previously left loose. Turn the assembly right side up.
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

11. Attach a Single Sided Back Panel Crossbar Bracket, LH (AA) to the pre-drilled holes in the left side of the back panel with (2) \( \frac{5}{16} \times 18 \times .75 \)" button head hex machine screws (DD). Repeat on the right side with a Single Sided Back Panel Crossbar Bracket, RH (BB). Ensure that the gusset webs are facing outward for both brackets.

12. Stand the back panel up and hold it in place. Have a second installer position the base assembly so that the back panel crossbar brackets (AA/BB) enter the back of the crossbars. Ensure the bottom flange of both brackets is BELOW the Rivnuts inside the crossbars. Attach the brackets to the crossbars, using (2) \( \frac{1}{4} \times 20 \times \frac{3}{4} \)" flat head Philips machine screws (CC) per bracket, from below the crossbars.

13. Insert (2) M6-1 spring nuts (Y) into the underside of the beam, and attach a Single Sided Centerbeam Bracket (EE) to each, loosely, with a M6-10mm button head hex machine screw (FF).

14. Align the (2) Single Sided Centerbeam Brackets with the predrilled holes in the back panel, and attach the brackets to the panel, with (2) \( \frac{5}{16} \times 18 \times .75 \)" button head hex machine screws (DD) each. Tighten the (2) M6-10mm button head hex machine screws (FF) in underside of the beam.
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

**INSTALL RAILS:**

15. Install (4) Rail End Caps (S) onto the ends of the rails using a rubber mallet.

16. Prepare the leg cradles for the rails by fastening (2) Cradle Clamp Brackets (E) loosely to each cradle (D) using (4) ¼-20 x 5/8" flat head Phillips machine screws (L) per cradle.

**NOTE:** The cradle clamp brackets (E) are ALWAYS to be placed in the outer position in the cradle (D), and the end is to be flush with the face of the housing cover (F).

17. Slide the ends of (2) rails into the cradles on a crossbar assembly. Position the rails so that the end cap (S) sticks out past the cradle by ¼".

**NOTE:** The original Antenna install gauge is not to be used to set Telescope rail positions.

18. Tighten the screws (L) in the cradle clamp brackets (E). Slide the free ends of the rails into the opposite crossbar assembly and repeat the above tightening procedure.
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

INSTALL UTILITY TRAYS (WHERE APPLICABLE):

19. Insert (2) pairs of ¼ -20 x 5/8” flanged button head hex machine screws (W) loosely into the threaded inserts on the inner face of the crossbars. Leave a gap of about 3/16” beneath the head of the screws. Slip the Utility Tray between the crossbars and engage the upper screws into the upper slot on the tray end plate. Rotate the tray so the lower screws engage the bottom slot. Tighten the screws with an Allen wrench.

20. Insert a M6-1 spring nut (Y) into the slot on the front face of the center beam. Position a Utility Tray Bracket (X) in front of the spring nut (Y) and engage the back edge of the utility tray within the grooves of the tray bracket. Fasten the tray bracket to the spring nut with a M6 -1 x 14mm flat head machine screw (Z).

LEVEL TABLE:

21. Place the table in its final position and level by extending the leveling glides as needed.

22. Pay close attention to column orientation. Ensure both columns are truly vertical and, in-particular, parallel to each other.

23. When levelers are extended more than ½”, it may be desirable to install the Helical Glide Shroud. See Helical Glide Installation Instructions.

INSTALL THE HEIGHT ADJUSTMENT ELECTRICAL COMPONENTS:

24. For each station, decide if the Handset Control Switch (J) will be on the left or right side of the table. Plug the handset cable into a housing outlet on the chosen side. Connect one end of the iDrive Cable into the second outlet on that side.

Note: The latest Power Supply blocks access to the housing outlets when it is placed on the Transformer Shelf; use of a splitter cable is needed. The splitter fits into the one housing port and provides two ports out past the Power Supply.

25. Insert splitter into one housing port. Plug the iDrive cable from the opposite leg into one splitter port.

26. Insert the power cord into the power supply and position the power supply on the Transformer Shelf (F) so that the red LED is visible from below. Plug the power supply into the other splitter port.

PERFORM A RESET FOR THE PAIR OF COLUMNS IN EACH STATION:

27. Plug the power supply into a temporary power source. Ensure the red LED on the power supply lights.

28. Apply approximately 100 lbs of weight to the rails. Press and hold both UP and DOWN buttons for ten seconds. After releasing the buttons, press and hold the DOWN BUTTON until both columns bottom out. Press the UP button and the station will be ready to perform normally. Remove the weight. Run the station all the way up and down again to ensure there are no issues with the columns.
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application

**INSTALL TOPS:**

29. Lay tops on base assembly. Place a Spacer (P) between the top of each rail and the underside of the top, centered on the width of the top. Spacers are attached to the top using (1) #12 X ¾" flat head black wood screw (Q) per spacer.

**NOTE:** Tops are predrilled so that the front edge is 12" from the center of the column leg, for all worksurface depths.

30. Attach tops using (4) #14 x 1" flat head wood screws (R) per cradle.

**NOTE:** Several screw hole locations are directly above the crossbars, so it is convenient to raise the station to make room for the power driver.

**AFFIX HANDSET:**

**Note:** If a return is to be attached, skip this step and follow Telescope Return Base Installation Instructions.

31. Using (2) #6 x 5/8" wood screws (J) mount the Handset Control Switch (I) to the underside of the worktop, at the front edge.

**ATTACH RETURNS (WHERE APPLICABLE):**

See Telescope Return Base Installation Instructions.

**INSTALL POWER STRIP ACCESSORY (WHERE APPLICABLE):**

See Power Strip Installation Instructions.

**INSTALL CLEAT PLATE & CLEAT PLATE COVER ACCESSORIES (WHERE APPLICABLE):**

See Cleat Plate and Cleat Plate Cover Installation Instructions.
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Side by Side Application

**Pattern Numbers Represented:**
Telescope Single Sided Base, Height Adjustable Standard Electric, with Beam Only, Left Hand, **YBTSSFESBNL**.
Telescope Single Sided Base, Height Adjustable Standard Electric, with Beam Only, Right Hand, **YBTSSFESBNR**.
Telescope Single Sided Base, Height Adjustable Extended Electric, with Beam Only, Left Hand, **YBTSSFEXBNL**.
Telescope Single Sided Base, Height Adjustable Extended Electric, with Beam Only, Right Hand, **YBTSSFEXBMR**.
Telescope Single Sided Base, Height Adjustable Standard Electric, with Beam and Tray, Left Hand, **YBTSSFESBTL**.
Telescope Single Sided Base, Height Adjustable Standard Electric, with Beam and Tray, Right Hand, **YBTSSFESBTR**.
Telescope Single Sided Base, Height Adjustable Extended Electric, with Beam and Tray, Left Hand, **YBTSSFEXBTL**.
Telescope Single Sided Base, Height Adjustable Extended Electric, with Beam and Tray, Right Hand, **YBTSSFEXBTR**.

**Supplemental Parts List:**
[See the installation instructions for Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application for a complete list of additional parts.]

- ¼-20 x .75" Button Head Machine Screw (A)
- ¼-20 x ¾" Flat Head Phillips Machine Screw (B)
- Dovetail Linking Brackets (C)
- Wire Hanger (D)
- Connector Link (E)

**Tools Needed:**
- Power Drive
- Phillips #2 and #3 Bits
- 5/32", 3/16", ¼" Hex Sockets
- Ratchet Torque Wrench (150 in-lb) for 3/8" Hex Socket
- 4mm Allen Wrench
- Level (or Laser Level)
- Rubber Mallet

**Steps:**

**NOTE:** These directions are to be used in conjunction with the installation instructions for Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application. The instructions below only address the modifications necessary to connect single sided tables for a side by side application.

**PREPARE TABLES FOR CONNECTION:**
Please refer to instructions for Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application, and complete the following steps for each table to be connected.

Follow steps 1-5 to prepare legs and crossbars.

**NOTE VARIABLES FOR STEP 4:**
There will be different drilling patterns on the crossbars. Single Sided Crossbars in an "end" location will have holes on the inner side to accept the legs at front and beam at back (and utility trays in center, where specified). Single Sided Crossbars in a "connected" location will have additional drillings on the outer side to accept Connector Links.

Follow steps 6-8 to connect beam to crossbars. Follow steps 9-10 to connect crossbars to legs.

Follow steps 11-14 to prepare & install back panel.

Follow steps 15-18 to install rails.

Follow steps 19-20 to install utility trays (where applicable).

Follow steps 21-23 to level tables.

Follow steps 24-26 to install the height adjustment electrical components.

Follow steps 27-28 to perform a reset for the pair of columns in each station.
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Side by Side Application

Single Sided Table Assembly with Beam and Utility Tray, Side by Side Application, Plan View

Single Sided Table Assembly with Beam and Utility Tray, Side by Side Application, Axonometric View
Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Side by Side Application

Exploded Single Sided Table Base Assembly with Beam and Utility Tray, Side by Side Application, Overview
ATTACHED CONNECTOR LINKS/ CONNECT TABLES:

1. Attach (2) Dovetail Linking Brackets (C) to the outside of the crossbars at “connected” locations using (2) ¼ -20 x .75” flat head machine screws (B) for each bracket. The base of the “L” should be oriented downward.

2. Prepare the Connector Links (E) for the Wire Hangers (D) by loosely screwing (2) ¼-20 x .75” button head machine screws (A) into the underside of each connector link. Leave a gap of about ⅜” beneath the head of the screws. Place the wire hanger over the heads of the screws and slide to engage the keyhole slots.

3. To connect tables, position both table assemblies side by side so the prepared connector links (E) can be slid down onto the linking brackets (C) previously attached to the crossbars. Fasten the connector links to the linking brackets with one ¼ -20 x .75” flat head machine screw (B) per linking bracket.

ATTACH RETURNS (WHERE APPLICABLE):
See Telescope Return Base Installation Instructions.

INSTALL POWER STRIP ACCESSORY (WHERE APPLICABLE):
See Power Strip Installation Instructions.

INSTALL CLEAT PLATE & CLEAT PLATE COVER ACCESSORIES (WHERE APPLICABLE):
See Cleat Plate and Cleat Plate Cover Installation Instructions.
## Telescope 120° Triad with Beam (with or without Dual Utility Trays)

**Pattern Numbers Represented:**

Telescope Base, Height Adjustable Standard Electric, with Beam and Dual Trays, No Crossbar Connection, YBTYEBTN
Telescope Base, Height Adjustable Standard Electric, with Beam and Dual Trays, 1 Crossbar Connection, YBTYEBT1
Telescope Base, Height Adjustable Standard Electric, with Beam and Dual Trays, 2 Crossbar Connections, YBTYEBT2
Telescope Base, Height Adjustable Standard Electric, with Beam and Dual Trays, 3 Crossbar Connections, YBTYEBT3
Telescope Base, Height Adjustable Standard Electric, with Beam Only, No Crossbar Connection, YBTYESBN
Telescope Base, Height Adjustable Standard Electric, with Beam Only, 1 Crossbar Connection, YBTYESB1
Telescope Base, Height Adjustable Standard Electric, with Beam Only, 2 Crossbar Connections, YBTYESB2
Telescope Base, Height Adjustable Standard Electric, with Beam Only, 3 Crossbar Connections, YBTYESB3
Telescope Base, Height Adjustable Extended Electric, with Beam and Dual Trays, No Crossbar Connection, YBTYEBTN
Telescope Base, Height Adjustable Extended Electric, with Beam and Dual Trays, 1 Crossbar Connection, YBTYEBT1
Telescope Base, Height Adjustable Extended Electric, with Beam and Dual Trays, 2 Crossbar Connections, YBTYEBT2
Telescope Base, Height Adjustable Extended Electric, with Beam and Dual Trays, 3 Crossbar Connections, YBTYEBT3
Telescope Base, Height Adjustable Extended Electric, with Beam Only, No Crossbar Connection, YBTYESBN
Telescope Base, Height Adjustable Extended Electric, with Beam Only, 1 Crossbar Connection, YBTYESBN
Telescope Base, Height Adjustable Extended Electric, with Beam Only, 2 Crossbar Connections, YBTYESBN
Telescope Base, Height Adjustable Extended Electric, with Beam Only, 3 Crossbar Connections, YBTYESBN

### Components:

- **Right Hand Leg**: Assembly, varies (A)
- **Left Hand Leg**: Assembly, varies (B)
- **3AF4004*** (C)
- **3AB4007** (D)
- **3AF4003*** (E)
- **3AF4002*** (F)
- **Starter crossbar (varies)** (G)
- **Mid crossbar (varies)** (H)
- **3AF4060*** (I)
- **Digital Handset Switch**
  - J1 Digital: 3AF4103
  - J2 Standard up/down: 3AF4102
- **7528496** (K)
- **4A22212** (L)
- **7189140** (M)
- **4A22216** (N)
- **4A22214** (O)
- **3AF4248** (S)

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Antenna Telescope Installation Instructions
# Telescope 120° Triad with Beam (with or without Dual Utility Trays)

**Parts List:**

- Right Hand Column Leg Assembly (A)
- Left Hand Column Leg Assembly (B)
- Horizontal Rail Cradle (C)
- Cradle Clamp Bracket (D)
- Housing Cover (E)
- Transformer Shelf (F)
- Starter Crossbar (G)
- Mid Crossbar (H)
- Pull Block (I)
- Handset Control Switch (J)
- #6 x 5/8” Wood Screw (K)
- 5/16-18 x 1-¼” Button Head Hex Machine Screw (L)
- 1/4-20 x 5/8” Flat Head Phillips Machine Screw (M)
- 5/16-18 x 3/4” Flat Head Hex Machine Screw (N)
- 5/16-18 x 2” Button Head Hex Machine Screw (O)
- Washer (P)
- Spacer (Q)
- #12 X ¾” Flat Head Black Wood Screw (R)
- #14 x 1” Flat Head Wood Screw (S)
- Rail End Caps (T)
- Center Beam Mounting Plate (U)
- ¼-20 x ¾” Button Head Machine Screw (V)
- M8-1.25 x 8mm Hex Set Screw (W)
- ¼ -20 x 5/8” Flanged Button Head Hex Machine Screw (X)
- Utility Tray Bracket (Y)
- M6-1 Spring Nut (Z)
- M6 – 1 x 14mm Flat Head Machine Screw (AA)
- Dovetail Linking Bracket (BB)
- ¼ -20 x ¾” Flat Head Machine Screw (CC)
- Wire Hanger (DD)
- Connector Link (EE)
- 120 Degree Column Leg Assembly (FF)
- 120 Degree Center Rail Cradle, LH (GG)
- 120 Degree Center Rail Cradle, RH (HH)
- 5/16-18 x 1” Button Head Hex Machine Screw (II)
- 120 Degree Y Bracket (JJ)
- 120 Degree Tri Crossbar (KK)
- Mini Crossbar (varies) (LL)

## Drive Cable Kit: (Varies)
- 31” = KRAE4027
- 63” = KRAE4029
- 78” = KRAE4030

## Power Supply w/ Splitter: KR3AF5045
- Power Cord: KR68005498
- Splitter: KR3AF5044

## Rails
- Table Tops, Veneer or Laminate
- Center Beam
- Dual Utility Trays
Telescope 120° Triad with Beam
(with or without Dual Utility Trays)

120 Triad Assembly with Beam and Dual Utility Trays,
1 Crossbar Connection, Plan View

120 Triad Table Assembly with Beam and Dual Utility Trays,
1 Crossbar Connection, Axon View

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Telescope 120° Triad with Beam (with or without Dual Utility Trays)

120 Triad Assembly with Beam and Dual Utility Trays, 1 Crossbar Connection, Partially Exploded Overview
Telescope 120° Triad with Beam (with or without Dual Utility Trays)

Steps:

**NOTE:** Before assembly, determine if the 120° triad has 1, 2, 3, or no end connections (and where those connections are located.)

**PREPARE OUTER LEGS & CROSSBARS:**

1. Attach (2) Horizontal Rail Cradles (C) to the upper housing boxes on the Right Hand and Left Hand Column Assemblies (A/B), with (2) $\frac{5}{16}" \times 1\frac{1}{4}"$ button head hex machine screws (L) per cradle.

2. Attach a Housing Cover (E) to the short end of each housing, using (2) $\frac{1}{4}-20 \times \frac{1}{4}"$ flat head Phillips machine screws (M) per cover.

3. Attach a Transformer Shelf (F) to the opposite side of each housing, using (2) $\frac{1}{4}-20 \times \frac{1}{4}"$ flat head Phillips machine screws (M) per shelf.

Repeat steps 1-3 for all three pairs of outer legs

**NOTE:** Do not attempt to rotate the outer column tube unless the column is moving either upward or downward. If it is necessary to orient the welded column bracket, you must first, temporarily connect a power supply and handset. Then plug the power supply to building power. Depress the Up button to run the column upward, ONLY while the column is running, rotate the outer column tube to orient the bracket as shown in the above image. Lower the column and disconnect the power supply from the building power, then from the leg.
Telescope 120° Triad with Beam (with or without Dual Utility Trays)

4. Determine requirement for Starter Crossbars (G) and/or Mid Crossbars (H) for the three pairs of outer legs, based on table application.

   **NOTE:** The Starter Crossbars will have holes on the inside of them to accept the legs and beam (and utility trays, where specified). Mid Crossbars will have holes on both sides; i.e., the inside has holes for the legs and beam (and utility trays where specified), and the outside has holes for linking brackets.

5. For each outer crossbar (G/H), place a Pull Block (I) into each end, and attach securely with (2) \( \frac{5}{16} \times \frac{3}{4} " \) flat head hex machine screws (N) per pull block in the underside of the crossbar. Phillips machine screws (M) per cover.

6. Ensure the three crossbars are oriented right side up and so the insides are facing one another (towards the center of the triad). Attach a Center Beam Mounting Plate (U) to the inside of each crossbar, using (4) \( \frac{1}{4} \times \frac{3}{4} " \) button head machine screws (V) per plate. Insert M8-1.25 x 8mm hex set screws (W) into both tabs on the sides of all three plates (U), such that the hex recesses are outward.

CONNECT CROSSBARS AND BEAMS TO LEGS, CREATING THREE SUB-ASSEMBLIES:

7. For each outer leg set, turn a crossbar assembly and the corresponding (2) leg assemblies upside down, and connect the leg assemblies to the crossbars by sliding the ends of the crossbars onto the welded column brackets. Join with (2) \( \frac{5}{16} \times \frac{3}{4} " \) flat head hex machine screws (N), loosely, into each bracket. Do not tighten at this time. Allow the screws to seat in the counter sinks and perform the next steps.

8. Place a washer (P) on a \( \frac{5}{16} \times 2 " \) button head hex machine screw (O) and insert it into the bottom of a crossbar at an angle to penetrate the pull block and thread into the column bracket. Torque screw to 150 in. lbs. (17 Nm). Repeat for the five other crossbar ends. Tighten the (6) pairs of flat head machine screws previously left loose.

   Turn each assembly right side up to perform the next step.

9. Ensure the Center Beams are oriented correctly (the top of the beam has a slot within a deep recess, the bottom of the beam has a slot within a wide recess). Mate a beam to the previously attached mounting plate (U), and secure by tightening the set screws (W) with a 4mm hex driver.

   Repeat for the other two outer leg sets.
Telescope 120° Triad with Beam (with or without Dual Utility Trays)

PREPARE 120° MID POSITION COLUMN LEGS AND TRIANGULAR STRUCTURE:

10. Attach 120 Degree Center Rail Cradles [one LH (GG) and one RH (HH)] to the housing on a 120 Degree Column Leg Assembly (FF), using (2) 5/16-18 x 1-¼” button head hex machine screws (II) per cradle.

   Repeat for other two 120 Degree Column Leg Assemblies (FF).

11. Construct the central triangular structure by linking (3) 120 Degree Y Brackets (JJ) to (3) 120 Degree Tri Crossbars (KK). Ensure that all three Tri Crossbars are oriented correctly, with the NARROW beam hole pair at the top. The UP arrows on the three Y Brackets should be pointing up. Secure with (4) ¼-20 x 5/8” flat head Phillips machine screws (M) per Y Bracket.

12. Add (3) Mini Crossbars (LL) to the triangular structure, using (2) ¼-20 x 5/8” flat head Phillips machine screws (M) per crossbar.

CONNECT SUB-ASSEMBLIES:

13. Stand the (3) mid position column leg assemblies up and insert the column brackets into the mini crossbars at the ends of the triangular structure. Secure using (2) 5/16-18 x 1-¾” flat head hex machine screws (II) per crossbar.
Telescope 120° Triad with Beam
(with or without Dual Utility Trays)

14. Attach a Center Beam Mounting Plate (U) to all three tri crossbars, using (4) ¼-20 x ¾" button head machine screws (V) per plate. Insert M8-1.25 x 8mm hex set screws (W) into both tabs on the sides of all three plates (U), such that the hex recesses are outward.

15. Connect a T-shaped outer column leg sub-assembly to the central standing triangular structure by attaching the beam end to a crossbar mounted beam mounting plate (U), and secure by tightening the set screws (W) with a 4mm hex driver.

Repeat for the two remaining beam/column leg sub-assemblies.
Telescope 120° Triad with Beam (with or without Dual Utility Trays)

PREPARE FOR POSITIONING/INSTALLING RAILS:

16. Install (1) Rail End Cap (T) onto ONE end of each of the (12) rails using a rubber mallet. (Do not install Rail End Caps into BOTH ends of each rail.)

17. Set the rails into the cradles, with the capped ends outward, (4) rails per station.

18. At the OUTER columns, loosely attach (2) Cradle Clamp Brackets (D) to each cradle (C) with (4) ¼-20 x ⅝" flat head Phillips machine screws (M) per cradle.

NOTE: The cradle clamp brackets (D) are ALWAYS to be placed in the outer position in the cradle (C), and the end is to be flush with the face of the housing cover (E).

Position the rails so that the end caps (T) stick out past the cradles by ¼". Tighten the screws (M) in the cradle clamp brackets (D).

19. At the CENTER columns, loosely attach (2) Cradle Clamp Brackets (D) to each cradle cavity (GG/HH) with (4) 1/4-20 x ⅝" flat head Phillips machine screws (M) per cavity.

Position the rails so that the ends are ⅜" from the back wall of the cradle cavity. Tighten at least one screw (M) per rail in the cradle clamp brackets (D).

LEVEL BASE STRUCTURE-ENSURE COLUMNS ARE PLUMB (TRULY VERTICAL):

NOTE: The three columns in any given station must be set to plumb/parallel to one another, or significant performance issues can occur.
Telescope 120° Triad with Beam
(with or without Dual Utility Trays)

120 Triad Table, Utility Tray
Installation, Steps 23 & 24

Step 23
1/4-20 x 5/8" Flanged
Button Head Hex
Machine Screws (X)

Step 24
Utility Tray Bracket (Y)
M6-1 x 14mm Flat
Head Machine
Screw (AA)

120 Degree Y Bracket (JJ)
with Threaded Inserts

Plug power supply directly
into middle leg
20. Place the base structure in its intended location. Adjust levelers to ensure that the Beams and Crossbars are level. Ensure that the three center columns are plumb/parallel. Adjust the leveling glides to achieve this, allowing the triangular crossbar structure to deviate from horizontal, if necessary.

21. Set the outer columns to be plumb/parallel to the center columns by adjusting the position of the rails within the center column cradles (GG/HH), i.e.: reduce/increase the \( \frac{3}{8}'' \) gap, as needed. Once plumb/parallel is achieved, tighten all the screws (M) in the cradle clamp brackets (D).

22. When levelers are extended more than \( \frac{1}{2}'' \), install the Helical Glide Shroud. See Helical Glide Installation Instructions.

**INSTALL UTILITY TRAYS (WHERE APPLICABLE):**

23. Insert a pair of \( \frac{1}{4} - 20 \times \frac{5}{8}'' \) flanged button head hex machine screws (X) loosely into the threaded inserts on the inner face of the outer crossbar. Insert an additional pair of \( 1/4 - 20 \times \frac{5}{8}'' \) flanged button head hex machine screws (X) loosely into the threaded inserts on the inner face of the corresponding 120 Degree Y Bracket (JJ) located directly across. Leave a gap of about \( \frac{3}{16}'' \) beneath the head of the screws. Slip the Utility Tray between the outer crossbar and the Y bracket, and engage the upper screws into the upper slot on the tray end plate. Rotate the tray so the lower screws engage the bottom slot. Tighten the screws with an Allen wrench.

24. Insert a M6-1 spring nut (Z), centered, into the slot on the side of the center beam.

Position a Utility Tray Bracket (Y) in front of the spring nut (Z) and engage the back edge of the utility tray within the grooves of the tray bracket. Fasten the tray bracket to the spring nut with a M6 – 1 x 14mm flat head machine screw (AA).

Repeat for the other side of that center beam and for the other two center beams.
Telescope 120° Triad with Beam (with or without Dual Utility Trays)

INSTALL THE HEIGHT ADJUSTMENT ELECTRICAL COMPONENTS:

NOTE: To achieve proper lifting performance with 120 Degree Stations, the power supply must be plugged into the center leg.

25. Plug splitter into one port on middle leg. Temporarily tape power supply to rail near middle leg. Plug power supply directly into other outlet on middle leg housing.

26. Connect middle leg to each outer leg, by plugging a LONG iDrive cable into splitter and also into one port of the leg. Repeat, plugging second LONG iDrive cable into splitter and one port of second leg. (See Wiring Diagram on Pg 57)

27. Decide whether handset will be on Right or Left end of 120 Top. Plug SHORT iDrive cable into leg on selected side. Connect Handset to other end of iDrive cable. Allow to dangle onto floor until after top is attached.

PERFORM A RESET FOR THE TRIO OF COLUMNS IN EACH STATION:

28. Plug the power supply into a temporary power source. Ensure the red LED on the power supply lights.

29. Apply approximately 100 lbs. of weight to the rails. Press and hold both UP and DOWN buttons for ten seconds. After releasing the buttons, press and hold the DOWN BUTTON until all three columns bottom out. Press the UP button and the station will be ready to perform normally. Remove the weight. Run the station all the way up and down again to ensure there are no issues with the columns.

Repeat the procedure above for the other two stations.

ENSURE COLUMNS ARE PLUMB THROUGHOUT RANGE OF TRAVEL:

To avoid issues that may arise if columns are forced out of alignment during usage, a thorough check is required at this point in the installation. If adjustment is required, it is best to adjust at the mid-column cradles, if possible. Rail adjustments made here are hidden, allowing the correct outset of the rail caps at the outer ends. If additional rail adjustment is required, then make those adjustments at the outer cradles. Free movement of the columns takes priority over the rail cap outset.

30. Using a laser level, or similar, ensure that the upper column elements are in line and paralleling the lower column tube, made plumb at Step 21. Make rail adjustments, described above, as needed, to retain column tube alignment throughout the range of travel.

ATTACH CONNECTOR LINKS/CONNECT TABLES (WHERE APPLICABLE):

31. Attach (2) Dovetail Linking Brackets (BB) to the outside of the outer crossbar using (2) 1/4 -20 x 3/4" flat head machine screws (CC) per bracket. The base of the “L” should be oriented downward.

32. Prepare the Connector Link (EE) for the Wire Hanger (DD) by loosely screwing (2) 1/4-20 x 3/4" button head machine screws (V) into the underside of the connector link. Leave a gap of about 1/8" beneath the head of the screws. Place the wire hanger over the heads of the screws and slide to engage the keyhole slots.

NOTE: Repeat the above two steps for the outer crossbar and Connector Link of the connecting table assembly.

33. To connect tables, position both table assemblies side by side so the prepared connector links (EE) can be slid down onto the linking brackets (BB) previously attached to the crossbars. Fasten the connector links to the linking brackets with a 1/4 -20 x 3/4" flat head machine screw (CC) at each end.

INSTALL TOPS:

34. Lay tops on base assembly. Place a Spacer (Q) between the top of each rail and the underside of the top, centered on the width of the top. Spacers are attached to the top using (1) #12 X ¾” flat head black wood screw (R) per spacer.

NOTE: Back to back tops are to be 6" apart.

35. Attach tops using (4) #14 x 1” flat head wood screws (S) per outer Horizontal Rail Cradle (C), and (2) #14 x 1” flat head wood screws (S) per center cradle cavity in 120 Degree Center Rail Cradle (GG/HH).

NOTE: Several screw hole locations are directly above the crossbars, so it is convenient to raise the station to make room for the power driver.

NOTE: Do NOT force columns out of alignment to align pilot holes with cradle holes. If worksurface pilot holes do not align with cradle holes, drill new pilot holes, as needed. Use a drill bit depth stop to prevent drilling through the top surface of the worktop.

36. Attach Power Supply bracket to underside of top using (2) #8 x 3/4 Pan Head Screw provided. Place Power Supply onto bracket so that the red LED is visible from below.

AFFIX HANDSET:

37. Using (2) #6 x 5/8” wood screws (K) mount the Handset Control Switch (J) to the underside of the worktop, at the front edge.

INSTALL POWER STRIP ACCESSORY (WHERE APPLICABLE):

See Power Strip Installation Instructions.

INSTALL CLEAT PLATE & CLEAT PLATE COVER ACCESSORIES (WHERE APPLICABLE):

See Cleat Plate and Cleat Plate Cover Installation Instructions.

INSTALL Z MANAGER ACCESSORY (WHERE APPLICABLE):

See Z-Manager Installation Instructions.
Telescope 120° Triad with Beam
(with or without Dual Utility Trays)

**Worksurface Top**

**Step 35**
#14 x 1" Flat Head Wood Screw (S)

**Step 34**
Spacer (Q)
#12 x ¾" Flat Head Black Wood Screw(R)

**Step 33**
¼-20 x ¾" Flat Head Machine Screw (CC)

**Step 32**
Connector Link (EE)
Wire Hanger (DD)
⅛-20 x ¾" Button Head Machine Screw (V)

**Step 31**
Dovetail Linking Brackets (BB)
⅛-20 x ¾" Flat Head Machine Screw (CC)

**Step 36**
Handset Control Switch (J)
(2) #6 x ⅜" Wood Screw (K)

**Step 30**
(2) #6 x ⅜" Wood Screw (K)
Telescope Return Bases

Pattern Numbers Represented:
Telescope Return Base, Height Adjustable
Standard Electric, YBTRES_
Telescope Return Base, Height Adjustable
Extended Electric, YBTREX_

Parts List:
Return Column Assembly (A)
Horizontal Rail Cradle (B)
Cradle Clamp Bracket (C)
Housing Cover (D)
Transformer Shelf (E)
Main to Return Tie “W” Bracket (F)
Return Rail Hook Top Bracket (G)
Return Rail Clamp Bottom Bracket (H)
End Cap with Support Tab (I)
Rail End Cap (J)
1/4-20 x 1” Flat Head Machine Screw (K)
#14 x 1” Flat Head Wood Screw (L)
1/4-14 x 7/8” Pan Head Wood Screw (M)
1/4-20 x 1/2” Flat Head Phillips Machine Screw (N)
5/16-18 x 1 1/4” Button Head Hex Machine Screw (O)
Spacer (P)
#12 x 3/4” Flat Head Black Wood Screw (Q)
#6 x 5/8” Wood Screw (S)
iDrive Cable: (Varies)
31”= KR3AE4027
47”= KR3AE4028
63”= KR3AE4029
78”= KR3AE4030
94”= KR3AE4089
Return Rails (one long, one short)
Return Tops
Splitter: KR3AF5044

Tools Needed:
Power Driver
Phillips #2 and #3
Rubber Mallet
5/32”, 3/16”, 1/4” hex bit sockets
Ratchet Torque Wrench (150 in-lb)
for 3/16” Hex Bit Socket
4mm Allen Wrench
Level (or laser level)
Telescope Return Bases

Dual table Assembly with Return on One Side, Plan View

Note: Follow installation steps for Telescope Dual Table Bases before proceeding with the assembly of the return.

Dual table Assembly with Return on One Side
Telescope Return Bases

Shorter Return Rail

Longer Return Rail (Use Front)

Upper Housing Box

Return Column Assembly

Exploded Return Base Assembly, Overview
## Telescope Return Bases

**Steps**

**Note:** Follow installation steps 1 through 27 for Telescope Dual Table Bases before proceeding with the assembly of the return.

### Prepare Return Column

1. Attach (2) Horizontal Rail Cradles (B) to the upper housing box on the Return Column Assembly (A), with (2) 5/16-18 x 1 1/4" button head hex machine screws (O) per cradle.

2. Attach a Housing Cover (D) to the short end of the housing, using (2) ¼-20 x 5/8" flat head Phillips machine screws (N).

3. Attach a Transformer Shelf (E) to the opposite side of the housing, using (2) ¼-20 x 5/8" flat head Phillips machine screws (N).

4. Fasten (2) Cradle Clamp Brackets (C) loosely to each cradle (B) using (4) ¼-20 x 5/8" flat head Phillips machine screws (N) per cradle.

**Note:** The cradle clamp brackets (C) are always to be placed in the outer position in the cradle (B), and the end is to be flush with the face of the housing cover (D).
**Telescope Return Bases**

**PREPARE THE RAILS**

5. Install (1) Rail End Cap (J) into the end of each return rail using a rubber mallet.

6. In the longer of the two return rails, install a Return Rail Hook Top Bracket (G) in the uncapped end.

7. In the shorter of the two return rails, install an End Cap with Support Tab (I).

**ADD RAILS TO THE RETURN COLUMN**

8. Slide (2) rails into the cradles on the return column. Position them so that the longer rail is forward (toward the user), and the shorter rail is rearward on the return.

Position the rails so that the end cap (J) sticks out past the cradle by ¼".

**Note:** The original Antenna install gauge is not to be used to set Telescope rail positions.

9. Tighten the screws (N) in the cradle clamp brackets (C).

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Telescope Return Bases

**Step 10 & 16**
Main to Return Tie
"W" Bracket (F)
1/4-14 x 7/8" Pan Head Machine Screws (M)

Pre-drilled Return Top

**Step 18**
Handset Control Switch (R)

#6 x 3/4" Wood Screws (S)

**Step 14**
Spacer (P)

#12 x 3/4" Flat Head Black Wood Screw (Q)

**Step 13**
End Cap with Support Tab (I)

#14 x 1" Flat Head Wood Screw (L)

**Step 12**
Return Rail Clamp Bottom Bracket (H)

1/4-20 x 1" Flat Head Machine Screw (L)

**Step 15**

#14 x 1" Flat Head Wood Screws (L)

Telescope Return Bases Diagram
Telescope Return Bases

PREPARE THE RETURN TOP
10. Attach the (2) Main to Return Tie “W” Brackets (F) to the end of the return top using (2) ¼-14 x 7/8” pan head machine screws (M), per bracket, into the pilot holes.

Note: The midline of the “W” bracket is intentionally inset from the edge of the return top.

POSITION THE RETURN ASSEMBLY
11. Set the primary structure to a height similar to the return structure (typically its lowest position), and place the Return Rail Hook Top Bracket (G) over the primary structure’s front rail. The primary table desk top will need to be loosened to allow the hook to be installed. Prop or have someone hold the shorter rail as needed, and continue.

12. Verify that the return structure is in the appropriate location for the depth of the return top, then secure the rail bracket in place by attaching a Return Rail Clamp Bottom Bracket (H) with (1) ¼ -20 X 1” machine screw (K).

Note: The return column is always centered on the return top depth.

13. Attach the End Cap with Support Tab (I) to the underside of the primary top with a #14 x 1” flat head wood screw (L).

INSTALL THE RETURN TOP
14. Lay the return top on the return base assembly, sliding the “W” brackets (F) under the primary top. Be sure to not disengage the rail clamp assembly (G/H) from the end of the return rail. Place a Spacer (P) between the top of each rail and the underside of the top, centered on the width of the top. Spacers are attached to the top using (1) #12 X ¾” flat head black wood screw (Q) per spacer.

15. Attach return top to base using (4) #14 x 1” flat head wood screws (L) per cradle.

16. Secure the “W” brackets (F) to the primary top using (2) ¼-14 x 7/8” pan head wood screws (M), per bracket.

ATTACH THE RETURN ELECTRICAL COMPONENTS

Note: For optimal performance, the power supply must connect into the middle leg in a 3-leg configuration. This will require three ports at the middle leg; use two splitters to achieve this.

17. At the leg where the Return attaches (middle leg) plug two (2) splitters into the housing outlets and place the power supply onto the transformer shelf. Connect the two iDrive cables from each other leg and the power supply to three of the four splitter ports.

18. Using (2) #6 x 5/8” wood screws (S) mount the Handset Control Switch to the underside of the return top or the primary top, at the front edge.

PERFORM A RESET FOR THE THREE COLUMNS IN EACH STATION
19. Apply approximately 100 lbs of weight to the station. Press and hold both UP and DOWN buttons for ten seconds. After releasing the buttons, press and hold the DOWN BUTTON until all three columns bottom out. Press the UP button and the station will be ready to perform normally. Remove the weight. Run the station all the way up and down again to ensure there are no issues with the columns.

LEVEL TABLES
20. Place the tables in their final positions and level by extending the leveling glides as needed.

21. When levelers are extended more than ½”, install the Helical Glide Shroud. See Helical Glide Installation Instructions.

INSTALL POWER STRIP ACCESSORY (WHERE APPLICABLE)
See Power Strip Installation Instructions.

INSTALL CLEAT PLATE & CLEAT PLATE COVER ACCESSORIES (WHERE APPLICABLE)
See Cleat Plate and Cleat Plate Cover Installation Instructions.
Telescope Y-Base Adjustable Height Tables

**Pattern Numbers Represented:**
Telescope Y-Base Table, Rectangular, Height-Adjustable Standard Electric, YKTS_ _YES_ _

Telescope Y-Base Table, Track, Height-Adjustable Standard Electric, YKTT_ _YES_ _

Telescope Y-Base Table, Bullet, Height-Adjustable Standard Electric, YKTB_ _YES_ _

**Parts List:**
- Glide Assembly (A)
- Square Tube End Cap (B)
- Housing Cover (C)
- Transformer Shelf (D)
- Top Support Bracket, Left Hand (E)
- Top Support Bracket, Right Hand (F)
- Cable Clip (G)
- 5/16-18 x 1.5” Hex Socket Cap Screw (H)
- ¼-20 x ¾” Flat Head Machine Screw (I)
- ¼-20 x ¾” Flat Head Machine Screw (J)
- 5/16 – 18 x 2.25” Flat Head Machine Screw (K)
- 10-24 x ¾” Flat Head Machine Screw (L)
- #14 x 1” Flat Head Wood Screw (M)
- #6 x 5/8” Wood Screw (N)

**Column Leg Assembly**
- Hub Weldment
- Spoke
- Dual Base Stretcher
- Handset Control
- iDrive Cable Kit
- Power Supply w/ Splitter: KR3AF5045
- Power Cord
- Splitter: KR3AF5044
- Table Top, Veneer or Laminate
- P Clamp Kit

**Tools Needed:**
- Power Driver
- Phillips #2, #3 and #4 Bits
- ¼” Allen Wrench / Hex Bit and Ratchet
- Rubber Mallet

**STEPS**

**PREPARE LEGS**

1. Attach a Hub Weldment to the bottom of each Column Leg Assembly with (3) 5/16-18 x 1.5” Hex Socket Machine Screw (H) each.

2. Affix (2) Spokes to the two outboard arms of each Hub Weldment, and position (1) Dual Base Stretcher on the remaining arms, connecting the column leg assemblies. Attach the spokes and stretcher using (2) ¼-20 x ¾” flat head machine screws (I) at each connection point.

3. Install a Glide Assembly (A) into the bottom of each spoke.

4. Insert an end cap (B) into the end of each spoke, using a rubber mallet to ensure the cap is inserted fully.

5. Attach a Top Support Bracket, Left Hand (E), and a Top Support Bracket, Right Hand (F) to the long sides of each housing, using (2) 5/16 – 18 x 2.25” Phillips head machine screws (K) per bracket.

6. Attach a Housing Cover (C) to the outboard end of each housing, using (2) ¼-20 x 5/8” flat head machine screws (J) per cover.

7. Attach a Transformer Shelf (D) to the inboard side of each housing, using (2) ¼-20 x 5/8” flat head machine screws (J) per shelf.

8. Attach a Cable Clip (G) beneath each Top Support Bracket (E/F) using (1) 10-24 x ¾” Flat Head Machine Screw (L) per clip.
Telescope Y-Base Adjustable Height Tables

INSTALL THE HEIGHT ADJUSTMENT ELECTRICAL COMPONENTS

9. Determine if the Handset Control will be centered, or on the left or right side of the table.

Note: The latest Power Supply blocks access to the housing outlets when it is placed on the Transformer Shelf; use of a splitter cable is needed. The splitter fits into the one housing port and provides two ports out past the Power Supply.

10. Plug the handset cable into a housing outlet on the chosen side. Connect one end of the iDrive Cable into the second outlet on that side. At the other leg, insert splitter into one housing port. Plug the iDrive cable from the other leg into one splitter port.

11. Insert the power cord into the power supply and position the power supply on the Transformer Shelf (F) so that the red LED is visible from below. Plug the power supply into the other splitter port

INSTALL TOPS:

12. Lay tops on base assembly and attach tops using (4) #14 x 1” flat head wood screws (M) per Top Support Bracket (E/F).

LEVEL TABLES:

13. Place the tables in their final positions and level by extending the leveling glide assemblies (A) as needed.

PERFORM A RESET FOR THE COLUMNS:

14. Plug the power supply into a power source. Ensure the red LED on the power supply lights.

15. Apply approximately 100lbs of weight to the table. Press and hold both UP and DOWN buttons for ten seconds. After releasing the buttons, press and hold the DOWN BUTTON until both columns bottom out. Press the UP button and the table will be ready to perform normally. Remove the weight. Run the table all the way up and down again to ensure there are no issues with the columns.
Telescope Y-Base Adjustable Height Tables

1. 5/16 -18 x 1.5" Hex Socket Machine Screw (H)

2. ¼-20 x ¾" Flat Head Machine Screws (I)

3. Step 3
   - Dual Base Stretcher
   - Hub Weldment
   - Spoke
   - Column Leg Assembly
   - Glide Assembly (A)

4. Step 4
   - Square Tube End Cap (B)

Y-Base Table, Dual Base Assembly, Partially Exploded View, From Below, Steps 1-4
Telescope Y-Base Adjustable Height Tables

Step 5
5/16 - 18 x 2.25” Phillips Head Machine Screw (K)
Cable Clip (G)
Housing Cover (C)

Step 6
¼ - 20 x ¼” Flat Head Machine Screw (J)

Step 7
¼-20 x 5/8” Flat Head Machine Screws (I)
Transformer Shelf (D)

Step 8
10 x ¾” Flat Head Machine Screw (L)
Housing Cover (C)
Telescope Y-Base Adjustable Height Tables

Y-Base Table, Dual Base, Electrical Components Installation, Steps 9-11
Telescope Y-Base Adjustable Height Tables

Step 12
#14 x 1" Flat Head Wood Screw (M)

Step 13
Glide Assembly (A)

Step 16
#6 x ⅝"
Wood Screw (N)

Step 17
Use P-clamp kit to tack cables to the tabletop

Y-Base Table, Dual Base, Top and Handset Installation Steps 12-17
Telescope End Panels for Dual Tables

Pattern Numbers Represented:
Telescope End Panel, YEP____

Parts List:
End Panel Connector Link (A)
Dovetail Linking Bracket (B)
End Panel Block (C)
End Panel Leg Brace, Right Hand (D)
End Panel Leg Brace, Left Hand (E)

NOTE: Handedness is determined as you face the end of the desk base

End Panel with Glides
Adjustable Dual Table (With Intermediate or End Application Base)

Tools Needed:
Right-Angle Ratcheting Power Driver with #3 Phillips Bit

STEPS

NOTE: Before attaching an End Panel, the adjustable dual table (with intermediate or end application base) should be fully assembled (see previous installation guide pages).

1. Slide the (2) End Panel Connector Links (A) down onto the linking brackets previously attached to the crossbar. Do not fasten from below yet.

2. Attach (2) Dovetail Linking Brackets (B) to the predrilled holes in the center of the end panel, using (2) ¼-20 x 1.25" Flat Head Machine Screws (G) per bracket.

3. Attach (2) End Panel Blocks (C) to the predrilled holes on the bottom of the end panel, using (2) ¼-20 x 1.25" Flat Head Machine Screws (H) per block.

4. Apply a strip of Polyurethane Grip Tape (F) to the inside curved surface of both the Right-Hand End Panel Leg Brace (D) and Left-Hand End Panel Leg Brace (E).

5. Place the End Panel in position, located so that the Dovetail Linking Brackets (B) are in line with the End Panel Connector Links (A).

6. Position the Right-Hand End Panel Leg Brace (D), just above the corresponding End Panel Block (B) on the End Panel with the curved (taped) surface against the inner (toward the other column) surface of the column. Slide the brace down to engage the End Panel Block (B), and attach using a ¼-20 x .5", Black Flat Head Screw (I) 3

7. Repeat step 6 for the Left-Hand End Panel Brace (D).

8. Raise both End Panel Connector Links (E) off the linking brackets on the crossbar, and reposition them as to engage both sets of Dovetail Linking Brackets (B), i.e.: the brackets on the crossbar and on the End Panel.

9. Extend the glides in the End Panel to level the panel so that the End Panel Connector Links (E) rest on the bottom flanges of both pairs of Dovetail Linking Brackets (B). Fasten the connector links to the linking brackets with ¼ - 20 x .75" flat head machine screws (G), from below.
Telescope End Panels for Dual Tables

Telescope End Panels, Installed

Single Telescope End Panel, Installed on Single Table
Telescope End Panels for Dual Tables

Step 1 & 8
End Panel Connector Link (A)

Step 9
¼-20 x .5", Black Flat Head Screw (I)

Connect Link Connection to Crossbar, Steps 1, 8, & 9

Dovetail Linking Brackets (B) with ¼-20 x .75" Flat Head Machine Screws (G) (previously installed)
Telescope End Panels for Dual Tables

Adjustable Dual End Table

Step 2
Dovetail Linking Bracket (B)

Step 5
End Panel Connector Link (A)

Step 4, 6, & 7
End Panel Leg Brace, Right Hand (D)
End Panel Leg Brace, Left Hand (E)
Polyurethane Grip Tape (F)

Step 6
¼ - 20 x .5", Black Flat Head Screw (I)

Step 9
¼ - 20 x .75" Flat Head Machine Screw (G)

End Panel with Glides

Connector Link Connection to Crossbar,
Steps 1, 8, & 9
Telescope End Panels for Single Sided Table

Pattern Numbers Represented:
Telescope End Panel, for Standard Electric Base, Left Hand, YEPTSSFESL
Telescope End Panel, for Standard Electric Base, Right Hand, YEPTSSFESR
Telescope End Panel, for Extended Electric Base, Left Hand, YEPTSSFEXL
Telescope End Panel, for Extended Electric Base, Right Hand, YEPTSSFEXR
Telescope Back Panel, for Standard Electric Base, Left Hand, YBPTSSFESL
Telescope Back Panel, for Standard Electric Base, Right Hand, YBPTSSFESR
Telescope Back Panel, for Extended Electric Base, Left Hand, YBPTSSFEXL
Telescope Back Panel, for Extended Electric Base, Right Hand, YBPTSSFEXR

Supplemental Parts List:
[See the installation instructions for “Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application” for a complete list of additional parts.]
End Panel Connector Link (A)
Dovetail Linking Brackets (B)
End Panel Block (C)
End Panel Leg Brace, Right Hand (D)
End Panel Leg Brace, Left Hand (E)

NOTE: Handedness of leg brace will be opposite the handedness of the end panel
Polyurethane Grip Tape (F)
¼ -20 x .75" Flat Head Machine Screw (G)
¼-20 x 1.25" Flat Head Machine Screw (H)
¼-20 x .5", Black Flat Head Screw (I)
Keyhole Plate (J)
#5 x ¾ Flat Head Wood Screw (K)
#10-24 x ¾, Zinc Flat Head Shoulder Screw (L)
10-24 x .35 Bushing (M)

Tools Needed:
Power Drive
Phillips #2 and #3 Bits
¼", ½", ¾" Hex Bit Sockets
Ratchet Torque Wrench (150 in-lb) for ¾" Hex Bit Socket
4mm Allen Wrench
Right-Angle Ratcheting Power Driver with #3 Phillips Bit Level (or Laser Level)
Rubber Mallet
Telescope End Panels for Single Sided Table

**STEPS:**

**Notes:** These directions are to be used in conjunction with the installation instructions for Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application. The instructions below only address the modifications necessary to connect a single sided table to an end panel application.

Before attaching an End Panel, the handed single sided table should be fully assembled.

The crossbar adjacent to the end panel must be a “mid-crossbar” type, with drillings on the outer side to accept Dovetail Linking Brackets & End Panel Connector Links.

The connector link that came with the table base will be too wide to properly connect the End Panel to the base and should be discarded for this end-panel application.

**PREPARE TABLES FOR CONNECTION:**

Please refer to instructions for Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application, and complete the following steps to prepare the table for connection to the End Panel.

Follow steps 1-5 to prepare legs and crossbars.

*Note variables for Step 4: There will be different drilling patterns on the crossbars. Single Sided Crossbars in an “end” location will have holes on the inner side to accept the legs at front and beam at back (and utility trays in center, where specified). Single Sided Crossbars at an “end panel” location will have additional drillings on the outer side to accept End Panel Connector Links.

Follow steps 6-8 to connect beam to crossbars.

Follow steps 9-10 to connect crossbars to legs.

Follow steps 11-14 to prepare & install back panel.

*Note addition for Step 14: Insert (3) 10-24 x .35 bushings (M) into the side of the back panel, and follow by inserting (3) #10-24x 3/8 zinc flat head shoulder screws (L).

Follow steps 19-20 to install utility trays (where applicable).

Follow steps 21-23 to level tables.

Follow steps 24-26 to install the height adjustment electrical components.

Follow steps 27-28 to perform a reset for the pair of columns in each station.
Telescope End Panels for Single Sided Table

Single Sided Base Assembly with Back & End Panels, Exploded View, RH Back Panel, RH End Panel, LH Base Shown
Telescope End Panels for Single Sided Table

Continue as follows:

POSITION CONNECTOR LINKS:
1. Attach (2) Dovetail Linking Brackets (B) to the outside of the crossbar at the “end panel” location using (2) ¼-20 x .75” flat head machine screws (G) for each bracket. The base of the “L” should be oriented downward.
2. Slide the (2) End Panel Connector Links (A) down onto the linking brackets attached to the crossbar. Do not fasten from below yet.

PREPARE END PANEL:
3. Attach (3) Keyhole Plates (J) to the end panel with (2) #5 x ¼ flat head wood screws (K) per plate. Be sure to orient the keyhole plate so that the screw head opening is towards the bottom, and the slot is towards the top.
4. Attach (2) Dovetail Linking Brackets (B) to the holes with threaded inserts holes in the center of the end panel, using (2) ¼-20 x .75” Flat Head Machine Screws (G) per bracket.
5. Attach the End Panel Block (C) to the holes with threaded inserts holes on the bottom of the end panel, using (2) ¼-20 x 1.25" Flat Head Machine Screws (H).
6. Apply a strip of Polyurethane Grip Tape (F) to the inside curved surface of the End Panel Leg Brace (D/E).

Steps 2 & 9
End Panel Connector Links (A)

Step 1
¼-20 x .75” Flat Head Machine Screw (G)

Step 11
¼-20 x .75” Flat Head Machine Screw (G)

*Note addition for Step 14:
- 10-24 x .35 Bushing (M)
- #10-24 x ½ Zinc Flat HEad Shoulder Screw (L)

Single Sided Base Assembly, Partially Exploded, Crossbar and Back Panel Preparation, Steps 1-2, 9 & 11
* Additional for Step 14
Telescope End Panels for Single Sided Table

CONNECT END PANEL:

7. Position the End Panel in position, located so that the Keyhole Plates (J) are in line with the shoulder screws (L) in the end of the back panel, and the Dovetail Linking Brackets (B) are in line with the End Panel Connector Links (A). Hook the Keyhole Plates onto the shoulder screws.

8. Position End Panel Leg Brace (D/E), just above the corresponding End Panel Block (B) on the End Panel with the curved (taped) surface against the inner (toward the other column) surface of the column. Slide the brace down to engage the End Panel Block (B), and attach using a ¼-20 x .5", Black Flat Head Screw (I).

9. Raise both End Panel Connector Links (A) off the linking brackets on the crossbar, and reposition them as to engage both sets of Dovetail Linking Brackets (B), i.e.: the brackets on the crossbar and on the End Panel.

10. Extend the glides in the End Panel to level the panel so that the End Panel Connector Links (A) rest on the bottom flanges of both pairs of Dovetail Linking Brackets (B).

11. Fasten the connector links (A) to the linking brackets (B) with (1) ¼ - 20 x .75" flat head machine screw (G) per linking bracket, from below.

Continue referring to the instructions for Telescope Single Sided Table Bases with Beam (with or without Utility Tray), Stand-Alone Application as follows:

Follow steps 29-30 to install tops.

Follow step 31 to affix handset.

ATTACH RETURNS (WHERE APPLICABLE):
See Telescope Return Base Installation Instructions.

INSTALL POWER STRIP ACCESSORY (WHERE APPLICABLE):
See Power Strip installation Instructions.

INSTALL CLEAT PLATE & CLEAT PLATE COVER ACCESSORIES (WHERE APPLICABLE):
See Cleat Plate and Cleat Plate Cover Installation Instructions.
Telescope Fixed Center Screen, Fabric

Pattern Numbers Represented:
Fixed Center Screen, Fabric, YPSCF

Parts List:
Bayonet Mount Bracket (A)
Spring Nut (B)
M6-1 x 25mm Flat Head PHDR Machine Screw (C)
Screen
Pre-assembled Telescope Table

Tools Needed:
Phillip #3 Screwdriver

**STEPS**

1. Insert (4) spring nuts (B) into the top slot in the center beam (i.e. (2) per bayonet mount bracket).
2. Attach (2) bayonet mount brackets (A) loosely to the spring nuts (B), using (2) M6-1 x 25mm PHDR machine screws (C) per bracket. Do not tighten.
3. Determine the desired screen position along the width of the table, and adjust/slide the location of the bayonet mount brackets (A) along the center beam so they will correspond with the openings on the underside of the screen.
4. Tighten the screws (C) in the bayonet mount brackets (A) to secure their locations.

Position the openings in the underside of the screen over the bayonet mount brackets (A) and push the screen down until the screen is firmly seated.
Telescope Fixed Center Screen, Fabric

Fixed Center Screen, Fabric

Telescope Tables Assembly

Fixed Center Screen, Fabric, Installed
Telescope Fixed Center Screen, Fabric

Exploded Telescope Table (Partial) with Fabric Screen

Bayonet Mount Bracket Assembly Detail

Step 1
- Bayonet Mount Bracket (A)
- Spring Nut (B)

Step 2
- M6-1 x 25mm PNDR Machine Screw (C)
Telescope Fixed Center Screen, Glass, Laminate or Veneer

Pattern Numbers Represented:
Fixed Center Screen, Glass, YPSCT__ G
Fixed Center Screen, Laminate or Veneer, YPSCT__ __
Vertical Alignment Trim for Glass Screens, YPSCTGT__

Parts List:
Spring Nut (A)
M6 x 35mm Button Head Machine Screw (B)
Washer (C)
Screen
Alignment Trim
(NOTE: Optional for glass screen installation only)
Pre-assembled Telescope Table

Tools Needed:
Drill
⅛” Drill Bit
Hex Driver Bit 44mm

STEPS
PREPARE BEAMS

Preparation notes: In order to rigidify center beam-mounted screens, hardware is provided with each screen to provide for clamping the screen in the center beam.

All screens come with four (4) clamping screws. Typical installations require all four be used, but 48” wide applications with modular electrical units in place may use only two clamping screws.

1. Determine and mark the required screw locations.

NOTE: The clamping screw locations are to be evenly space along the beam, but may shift as necessary to avoid conflicts with other beam-mounted items (i.e. electrical module). For wider applications (54” or wider) suggested location is to locate all four clamping screws outboard of an existing electrical module. Locate the inner screws as close to the module as possible and locate the outer screws 6” from the end of the center beam.

2. At each marked location, drill a ⅛” hole, vertically down through the center of the upper beam slot, all the way through the center of the lower beam slot.

INSTALL CLAMP SCREW HARDWARE & SET SCREENS

3. Tear the steel tab off each spring nut (A), and insert the nuts directly above each hole.

4. Stack (2) washers (C) onto each M6 x 35mm button head screw (B) provided, then insert each screw (with washers) up through the holes, from below the beam, and thread loosely into the bottom of the nuts (A).

5. Set the screen into the channel of the center beam. Ensure the screen is centered, vertically plumb, and aligned with adjacent screens. Ensure the screen is fully seated.

NOTE: For multiple glass screen runs, be sure to read the alignment notes below before proceeding.

6. Tighten the clamping screws from below the beam.

ALIGNMENT NOTES FOR MULTIPLE GLASS SCREEN RUNS:

NOTE: Glass screens are slightly undersized in width to allow for the optional alignment trim for glass screens.

If alignment trim is not being used, install the first screen in the center of the center-most beam. Working outward, abut each screen against the previously installed screen. This will result in the screens being shifted slightly off-center, more and more so as you work outward.

NOTE: For very long runs, in excess of nine beams in a row, the alignment trim is required, or slight gaps at adjacent screens will result.

7. Install the first screen into the center of the center-most beam. Do not tighten clamping screws until all screens are installed and plumb.

8. Peel the liner from an alignment trim and stick the trim on one end of the screen, positioned so the top of the trim is slightly below the top of the screen.

9. Press the trim firmly to the glass to activate the pressure sensitive tape.

10. Working outward, set the adjacent screens into their beams, while also engaging their edges into the alignment trim.

11. Finally, tighten the clamping screws, from below, ensuring each screen is plumb and in good alignment with adjacent screens.
**Telescope Fixed Center Screen, Glass, Laminate or Veneer**

**Step 1 & 2**

**Telescope Table Assembly**

**Detail of Drilling Through the Beam for Clamp Screws**

Step 1 & 2

- **Upper Beam Slot**
- **Lower Beam Slot**

A 5/32" hole, drilled vertically down through the center of the upper beam slot, all the way through the center of the lower beam slot. Repeat for each screw location.
Telescope Fixed Center Screen, Glass, Laminate or Veneer

Exploded Telescope Table (Partial) with Glass, Laminated or Veneer Screen

Step 3

Spring Nut (A)

NOTE: Tab removed

Washer (C)

M6 x 35mm Button Head Machine Screw (B)

Clamp Screw Hardware Kit Installation Detail
Telescope Fixed Center Screen, Glass, Laminate or Veneer

Alignment Trim Installation shown on Multiple Glass Screen Installation
Telescope Power Strip

Pattern Numbers Represented:
Power Strip, YR1TPS24

Parts List:
Plug Strip (A)
Front Power Strip Clamp (B)
Rear Power Strip Clamp (C)
1/4-20 5/32 x 5/8" Hex Socket Flat Head Machine Screw (D)
Knurled Collared Thumb Screw (E)
3/8" Diameter Black Nylon P-Clamp (F)
#6 x 5/8 Pan Head Wood Screw (G)

Tools Needed:
Power Driver
Phillips #2 Bit

Pre-assembled Telescope Table

Steps
1. Join a front power strip clamp (B) and a rear power strip clamp (C) around the rear rail of the Telescope table assembly and fasten together, using a 1/4-20 5/32 x 5/8" hex socket flat head machine screw (D). Repeat this assembly with a second set of the same hardware, and space the clamp assemblies approximately 19" apart, centered on the rear rail.

2. Press the back of the plug strip (A) onto the two clamp assemblies, with the outlets facing the user side of the table.

3. Thread a knurled collared thumb screw (E) into the bottom of each clamp assembly and tighten by hand to fix the plug strip into place. Connect the Upper Mount Management Bracket (B) to the Upper Mount Top Bracket (A) using the #8 x 1 1/4" pan head screw (I).

4. Use the included 3/8" dia. black nylon P-clamps with their corresponding #6 x 5/8" pan head wood screws (I) to manage the power cord along the underside of the worksurface, as necessary.
Telescope Power Strip

Power Strip, Installed View From Below

Step 1
Rear Power Strip Clamp (C)

Step 2
Plug Strip (A)

Step 3
Knurler Collared Thumb Screw (E)

Power Strip, Detail, Steps 1-3
Partially Exploded View
Telescope Power Strip
Telescope 120 Power Strip

Pattern Numbers Represented:
Power Strip, YR1TPS12

Parts List:
Plug Strip (A)
Front Power Strip Clamp (B)
Rear Power Strip Clamp (C)
¼-20 5/32 x 5/8" Hex Socket Flat Head Machine Screw (D)
Knurled Collared Thumb Screw (E)
3/8" Diameter Black Nylon P-Clamp (F)
#6 x 5/8 Pan Head Wood Screw (G)

Pre-assembled Telescope 120 Table

Tools Needed:
Power Driver
Phillips #2 Bit

Steps

1. Join a front power strip clamp (B) and a rear power strip clamp (C) around the rear rail of the Telescope table assembly and fasten together, using a ¼-20 5/32 x 5/8" hex socket flat head machine screw (D).

   Repeat this assembly with a second set of the same hardware, and space the clamp assemblies approximately 8¼" apart, centered on the rear rail.

2. Press the back of the plug strip (A) onto the two clamp assemblies, with the outlets facing the user side of the table.

3. Thread a knurled collared thumb screw (E) into the bottom of each clamp assembly and tighten by hand to fix the plug strip into place.

4. Use the included 3/8" dia. black nylon P-clamps with their corresponding #6 x 5/8 pan head wood screws (I) to manage the power cord along the underside of the worksurface, as necessary.
Telescope 120 Power Strip

120 Degree Power Strip, Installed View From Below

Step 1
- Knurler Collared Thumb Screw (E)

Step 2
- Plug Strip (A)

Step 3
- Rear Power Strip Clamp (C)
- Front Power Strip Clamp (B)
- 1/4-20 9/32 x 5/8" Hex Socket Flat Head Machine Screw (D)

Telescope Table Rear Rail

Front Power Strip Clamp (B) & Rear Power Strip Clamp (C), Shown Installed

120 Degree Power Strip, Detail, Steps 1-3 Partially Exploded
Telescope 120 Power Strip

![Diagram of Telescope 120 Power Strip](image)

- Worksurface Spacer
- Rear Rail
- Power Strip

120 Power Strip, Detail, Installed, Detailed
# Telescope Z-Managers

**Pattern Numbers Represented:**
- Z-Manager, Standard Electric Height Range, **YR1TZES**
- Z-Manager, Extended Electric Height Range, **YR1TZEX**

**Parts List:**
- Upper Mount Top Bracket (A)
- Upper Mount Management Bracket (B)
- Lower Mount Bracket (C)
- Lower Mount Engagement Block (D)
- Lower Mount ¼-20 Hex Nut (E)
- Z-Manager Sub-Assembly (F)
- Upper Corrugated Strap (G)
- Lower Corrugated Strap (H)
- #8 x ¾” Phillips, Pan Head, Type 17 Point Sheet Metal Screw (I)
- ¼-20 x 1” Socket Head Cap Screw (J)
- #8 x 1½” Phillips, Pan Head, Type A Sheet Metal Screw (K)

* Parts listed without part numbers cannot be ordered separately

Pre-assembled Telescope Table with Beam

**Tools Needed:**
- Power Driver
- Phillips #2 Bit
- 3/16” Allen Wrench

**STEPS**

1. Determine the side-to-side location for the Z-manager. The upper mount bracket location is to be directly above the lower mount bracket location.

2. Attach the Upper Mount Top Bracket (A) to the underside of the top, with the alignment tab against the back edge, using (2) #8 x ¾” pan head screw (I).

3. Connect the Upper Mount Management Bracket (B) to the Upper Mount Top Bracket (A) using the #8 x 1½” pan head screw (I).

4. Attach the Lower Mount Bracket (C) to the beam, directly below the upper mount location. With socket cap screw facing upward, engage the downward facing hooks into the lower edge of the slot on the face of the beam.

5. Insert (1) Lower Mount Engagement Block (D) and (1) Lower Mount Nut (E) into the bottom of the Lower Mount Bracket, and secure from the top with a ¼-20 x 1” socket head cap screw (J). Tighten the screw to raise the bracket hook so that it engages the top edge of the beam slot.

6. Raise the station to its maximum height.

**DETERMINE Z-MANAGER DIRECTION:**

7. With the two mounts in place, it is necessary to determine if the Z-manager will be configured in the direction of the letter “S” or the letter “Z”. (From the top downward, the “S” bends to the left, then bends to the right, whereas the “Z” is opposite.

**NOTE:** It is best to orient all Z-managers on one side of a run in the same direction. Orientation is particularly significant in back-to-back stations without centerbeam screens, where one may wish to line up the curvature of adjacent Z-Managers.

**NOTE:** The opening sides of the extruded wire management channels are to always face the front of the station, as the open ends of the mounts do.

8. Orient the Z-Manager Subassembly (F) so that the opening sides face forward.

**NOTE:** Subassembly (F) ships in two sections for Extended Electric. Snap the long corrugated strap into the 9” extrusion so that the buttons snap into the holes.
Telescope Z-Managers

CREATE THE “S” or “Z”:

NOTE: The upper flex strap of the subassembly (F) is always convex toward the cord management channel, i.e., the cords will be outside the bend when the corrugated strap is curved. The lower flex strap of the subassembly (F) is always concave toward the cord management channel, i.e., the cords will lie inside the bend when the strap is curved.

9. With the subassembly (F) facing forward and straightened out, flex it so that the upper flex strap bends away from the cord channel, and the bottom flex strap bends toward the cord channel.

This results in either the “S” orientation or the “Z”. If it is not the desired orientation, straighten the subassembly (F) back up, and rotate the subassembly 180° so that the top becomes the bottom (keeping the opening side facing forward.) Then flex the straps again so that the upper flex strap bends away from the cord channel and the bottom flex strap bends toward the cord channel. This will result in the desired orientation, “S” or “Z”.

10. Having identified the upper end of the subassembly (F), insert the Upper Corrugated Strap (G) into the upper extrusion of the subassembly so that the buttons snap into the holes.

11. Similarly, insert the Lower Corrugated Strap (H) into the lower extrusion of the subassembly (F).

12. Snap the upper portion of the now lengthened strap assembly into the Upper Mount Management Bracket (B), previously mounted to the underside of the top. Be sure the desired orientation is maintained and that the cord channel of the strap assembly is in line with the cord channel of the mount.

13. Similarly, insert the lower portion of the strap assembly into the beam mounted Lower Mount Bracket (C). Be sure that the cord channel of the strap assembly is in line with the cord channel of the mount.

14. Lower the table to the desired end-user height.

TROUBLESHOOTING THE CORD CHANNEL:

15. If you find that the cord channel is difficult to open, a flat-blade screwdriver may be used to pry apart the snapped connection at one end, then “unzip” the seam all the way to the other end.
Telescope Z-Managers

Z-Managers, Axonometric View From Below, Back to Back Configuration.
Note symmetry: "Z" configuration for one user, "S" configuration for opposite users.
Telescope Z-Managers

Exploded Z-Manager Assembly
NOTE: ‘Z’ orientation shown

Step 2

Steps 11 & 13

Steps 7, 8, & 9
NOTE: opening side of channel faces front of station

Steps 4 & 5

Steps 10 & 12

NOTE: opening side of channel faces front of station

Step 2
Power and Cable Management
Telescope Hinged Cleat Plate Covers

Pattern Numbers Represented:
Hinged Cleat Plate Cover, YR1TCP

Parts List:
Rail Clip (A)
#6 x 5/8" Wood Screw (B)

Cleat Plate Cover
Pre-assembled Telescope Table with
Cleat Plate and Power Strip

Tools Needed:
Pry Bar
Phillips Screw Driver

STEPS

1. Determine the side-to-side location for
   the hinged plate cover. The cover should
   be mounted directly below the cleat
   plate cable manager and power strip.

2. Attach two rail clips (A) to the back
desk rail, from behind the rail, one
on either side of the power strip.
   NOTE: If the worksurface has already
   been attached, a pry bar may need
   to be used to create a gap large
   enough to position the clips between
   the worksurface and the rail.

3. Adjust the spacing of the rail clips
   as necessary, and hang the cleat
   plate cover from the hooks at the
   bottom of the rail clips (A).

4. Rotate the cleat plate cover up so that
   it engages with both rails. The back
   edges should engage the back rail
   first, followed by the front edge of the
   cover, which will engage the front rail.
   NOTE: The cleat plate cover’s back tabs
   may need to be bent and adjusted for
   proper fit and secure connection to rails.

5. Screw a #6 x 5/8" wood screw (B) into
   each rail clip (A) to secure their placement.
Telescope Hinged Cleat Plate Covers

Exploded Hinged Cleat Plate Cover

Step 2
Rail Clip (A)

Step 3
Cleat Plate Cover

Step 5
#6 x ½” Wood Screw (B)
Telescope Hinged Cleat Plate Covers

Hinged Cleat Plate Cover Installation-
Section View, Step 4

NOTE: For clarity, the mounted power strip is not shown.
Power and Cable Management
Telescope Hinged Cleat Plate Covers for 120 Degree Application

Pattern Numbers Represented:
Hinged Cleat Plate Cover, YR1TCPC20

Parts List:
Rail Clip (A)
#6 x 5/8" Wood Screw (B)

Cleat Plate Cover
Pre-assembled Telescope Table with Cleat Plate and Power Strip

Tools Needed:
Pry Bar
Phillips Screw Driver

STEPS

1. Determine the side-to-side location for the hinged plate cover. The cover should be mounted directly below the cleat plate cable manager and power strip.
   
   NOTE: For a 48"W, 120 worksurface, the transformer shelf on the outer leg assembly must be removed for the cleat plate and cover to be installed. The transformer may sit on the cleat plate end flange if it is located on this end of the station. The cleat plate cover will fit between the outer and middle cradles.

   For a 54" or 60"W 120 degree worksurface, the transformer shelf should remain installed, and the cleat plate cover may be centered under the cleat plate.

2. Attach two rail clips (A) to the back desk rail, from behind the rail, one on either side of the power strip.
   
   NOTE: If the worksurface has already been attached, a pry bar may need to be used to create a gap large enough to position the clips between the worksurface and the rail.

3. Adjust the spacing of the rail clips as necessary, and hang the cleat plate cover (B) from the hooks at the bottom of the rail clips (A).

4. Rotate the cleat plate cover up so that it engages with both rails. The back edges should engage the back rail first, followed by the front edge of the cover, which will engage the front rail.
   
   NOTE: The cleat plate cover’s back tabs may need to be bent and adjusted for proper fit and secure connection to rails.

5. Screw a #6 x 5/8" wood screw (B) into each rail clip (A) to secure their placement.
Telescope Hinged Cleat Plate Covers for 120 Degree Application

20" Wide Hinged Cleat Plate Cover for 120 Degree Application, Installed Shown with a 48"W, 120 Degree Worksurface

NOTE:
Shelf Removed for install on 48"W 120 degree worksurface

NOTE:
Transformer shelf removed for install on 48"W 120 degree worksurface

Exploded Hinged Cleat Plate Cover, Shown with a 48"W 120 Degree Worksurface
Telescope Hinged Cleat Plate Covers for 120 Degree Application

Hinged Cleat Plate Cover Installation-Section View, Step 4

**NOTE:** For clarity, the mounted power strip is not shown.
Telescope Communications Mounting Plate

Pattern Numbers Represented:
Telescope Communications Mounting Plate, YR1TCMP

Parts List:
Mounting Plate (A)
Clamping Bracket (B)
B-32 x .625 Flat Head Machine Screw (C)

Pre-assembled Telescope Table with Dual Utility Tray

Tools Needed:
Manual Ratcheting Phillips Head Screwdriver

(A) 3AF5034*
(B) 3AF5009*
(C) 4A22237

STEPS

1. Build the communications mounting plate assembly by loosely attaching (2) clamping brackets (B) to the back of the mounting plate (A) with (2) B-32 x .625 flat head machine screws (C). Do not tighten screws. Keep the clamping brackets (B) oriented in parallel with the mounting plate.

2. Insert the mounting plate assembly into the data tray. Rotate the clamping brackets so they are vertical and fit behind the lip of the data tray.

3. Tighten the B-32 x .625 flat head machine screws (C) until the communications mounting plate is secure in the data tray.
Telescope Communications Mounting Plate

Communications Mounting Plate Assembly, Exploded View
Step 1

Communications Mounting Plate Installation:
Rotating the Clamping Brackets
Step 2
Telescope Communications Mounting Plate

Communication Mounting Plate, Installed

Communication Mounting Plate, Installed Shown with Data Faceplate

Telescope Assembly with Dual Utility Trays Installed

Telescope Communications Mounting Plate, Installed (2 shown)
Telescope Dual Utility Tray Covers

**Pattern Numbers Represented:**
Dual Utility Tray Covers, YR1TTC
Dual Utility Tray Covers, YR1TTCA

**Parts List:**
- Cover Support Bracket (A)
- Clamping Bracket (B)
- Flip Door Stop (C)
- M6-1 Spring Nut (D)
- M6-1 x 14mm Flat Head Machine Screw (E)
- 8-32 x .625 Flat Head Machine Screw (F)

*Tray Covers (Widths Vary Per Application)*
*Pre-assembled Telescope Table*
*with Dual Utility Tray*

**Tools Needed:**
- Manual Ratcheting Phillips Head Screwdriver
- Power Driver
- Phillip #2 Bit

**STEPS**

1. Build a single cover support bracket assembly by loosely attaching a clamping bracket (B) to the back of a cover support bracket (A) with an 8-32 x .625 flat head machine screw. Do not tighten screw. Keep the clamping bracket (B) oriented perpendicular to the support bracket (A).

   Repeat for (3) more cover support bracket assemblies. There will be 4 total per utility tray.

2. Insert the support bracket assemblies into the utility tray. They should be positioned so that they will support the tray covers, approximately 3 inches from the edges of the covers.

3. For each assembly positioned, rotate the clamping bracket (B) so it is vertical and fits behind the lip of the utility tray.

4. Tighten the 8-32 x .625 flat head machine screws (F) until the support bracket assemblies are secure in the utility tray.

5. Opposite each support bracket assembly, insert a M6-1 spring nut (D) into the slot on the side of the center beam.

6. Position a flip door stop (C) in front of each spring nut (D), fastening each with a M6 – 1 x 14mm flat head machine screw (E).

7. Position the utility tray covers on top of the support bracket assemblies and door stops, ensuring that the outside edges of the two covers align with the sides of the utility tray, leaving a gap between the covers for the placement of a Z-manager.

**NOTE:** The outside edges of the two covers will align with the sides of the data tray, leaving a gap between the covers for the placement of a Z-manager.

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Telescope Dual Utility Tray Covers

Data tray cover set, shown without Z-manager installed

Telescope Data Tray Covers, Installed, Two Sets Shown

Data tray cover set, shown installed

Telescope Data Tray Covers, Bracket Placement, Plan View, Step 2

(4) Door stop assemblies

Telescope table base assembly

Center Beam

Data Tray

(4) Cover support bracket assemblies
Telescope Dual Utility Tray Covers

Data Tray Cover Installation: Cover Support Bracket Assembly, Steps 1-4

Data Tray

Clamping Bracket (B)
Cover Support Bracket (A)
8-32 x .625 Flat Head Machine Screw (F)

Center Beam

M6-1 Spring Nut (D)
Flip Door Stop (C)
M6-1 x 14mm Flat Head Machine Screw (E)

Telescope Data Tray Covers, Bracket Placement, Plan View, Step 2
Telescope Dual Utility Tray Covers

Data Tray Covers, Partially Exploded View

- Data Tray Covers
- Step 7
- Telescope Table Base Assembly
- (4) Door Stop Assemblies
- (4) Cover Support Bracket Assemblies
- Data Tray

Data Tray Covers, Shown Installed