



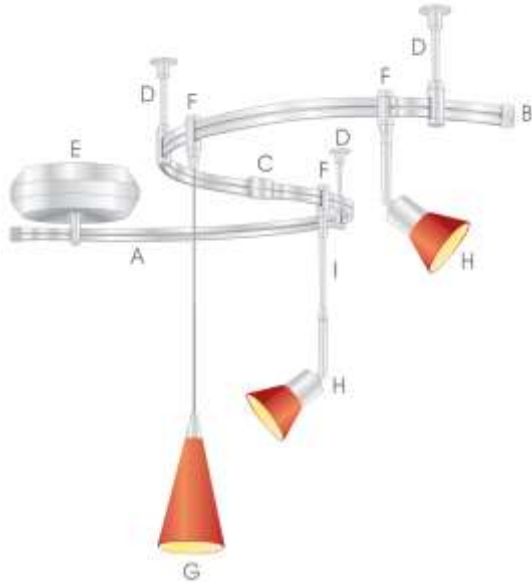
MONORAIL SYSTEM

5 STEPS TO CREATING A BASIC CONFIGURATION
Layout, Suspension, Power and Transformers

Type	
Project	
Catalog No.	

5 Steps to Creating a Basic Configuration

- Layout:** Start with creating a design of the Monorail System.
- Suspensions:** Determine how the Monorail is to be suspended.
- Power:** Determine how much power is required.
- Transformer:** Determine the appropriate transformer type.



Components of the Monorail System:

- A. Monorail
- B. End Cap
- C. Connector
- D. Standoff
- E. Transformer
- F. Fixture Adapter
- G. Quick Adapt Pendant
- H. Quick Adapt Spot
- I. Fixture Extension



FIXTURE ADAPTER

Provides connection from Quick Adapt Spots and Pendants to Monorail. One fixture Adapter required per Quick Adapt Spot or Pendant.

MODEL	DESCRIPTION	FINISH
MA-FA	Fixture Adapter	SN – Satin Nickel / CH – Chrome



FIXTURE EXTENSION

For use with Quick Adapt Spots to extend the length of the stem. Non adjustable.

MODEL	DESCRIPTION	FINISH
MA-FE09	9" Fixture Extension	SN – Satin Nickel / CH – Chrome
MA-FE12	12" Fixture Extension	SN – Satin Nickel / CH – Chrome
MA-FE18	18" Fixture Extension	SN – Satin Nickel / CH – Chrome
MA-FE24	24" Fixture Extension	SN – Satin Nickel / CH – Chrome
MA-FE36	36" Fixture Extension	SN – Satin Nickel / CH – Chrome
MA-FE48	48" Fixture Extension	SN – Satin Nickel / CH – Chrome



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1. LAYOUT



MONORAIL

Rail with 2 End Caps. Field cuttable. Hand-bendable to a minimum radius of 12". Rated for 300 watts at 12 Volts; 600 watts at 24 volts. Material: Aluminum

MODEL	DESCRIPTION	FINISH
MA-R4	4' Rail with 2 End Caps	SN – Satin Nickel
MA-R8	8' Rail with 2 End Caps	SN – Satin Nickel

END CAP

Inserts over cut-end Rail for finished look.



MODEL	DESCRIPTION	FINISH
MA-EC	End Cap	SN – Satin Nickel



BENDING TOOL

Makes smooth consistent bends in Monorail.

MODEL	DESCRIPTION
MA-BT	Bending Tool

Connectors may be used for longer runs or to create geometric shapes.

CONDUCTIVE CONNECTORS

Allow power to pass from rail to rail.

MODEL	DESCRIPTION	FINISH
MA-I	Conductive I-Connector	SN – Satin Nickel
MA-FLX	Conductive Flexible Connector	SN – Satin Nickel
MA-T	Conductive T-Connector	SN – Satin Nickel
MA-X	Conductive X-Connector	SN – Satin Nickel
MA-CW	Conductive Ceiling-to-Wall-Connector	SN – Satin Nickel

NON CONDUCTIVE CONNECTORS

Isolates power from one rail to the next.

MODEL	DESCRIPTION	FINISH
MA-I-NC	Non-Conductive I-Connector	SN – Satin Nickel
MA-FLX-NC	Non-Conductive Flexible Connector	SN – Satin Nickel
MA-T-NC	Non-Conductive T-Connector	SN – Satin Nickel
MA-X-NC	Non-Conductive X-Connector	SN – Satin Nickel



I Connector



Flexible Connector



T Connector



X Connector



Ceiling-to-Wall Connector



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2. SUSPENSIONS

Unlike standard track systems, Monorail cannot be mounted directly onto the ceiling. It must be suspended from the ceiling. Standoff supports the rail from the ceiling. Start by determining the appropriate type of standoff.



RIGID STANDOFF

- Non-Electrical.

MODEL	DESCRIPTION	FINISH
MA-S03	3" Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-S06	6" Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-S12	12" Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-S24	24" Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-S36	36" Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-S48	48" Rigid Standoff	SN – Satin Nickel / CH – Chrome



SLOPED CEILING RIGID STANDOFF

- Non-Electrical.

MODEL	DESCRIPTION	FINISH
MA-SS06	6" Sloped Ceiling Rigid Standoff	SN – Satin Nickel / CH – Chrome



T-BAR CEILING RIGID STANDOFF

- Non-Electrical.

MODEL	DESCRIPTION	FINISH
MA-ST03	3" T-Bar Ceiling Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-ST06	6" T-Bar Ceiling Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-ST12	12" T-Bar Ceiling Rigid Standoff	SN – Satin Nickel / CH – Chrome
MA-ST24	24" T-Bar Ceiling Rigid Standoff	SN – Satin Nickel / CH – Chrome



AIRCRAFT CABLE SUSPENSION

- Suspends Rail up to 12' below Ceiling with Aircraft Cable. Length adjustable with cable lock. Tools not required. Furnished with canopy.
- Non-Electrical.

MODEL	DESCRIPTION	FINISH
MA-SC12	12' Aircraft Cable Suspension	SN – Satin Nickel / CH – Chrome



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3. POWER

Monorail is rated at 25A. This means the Monorail system will handle up to 300W on a 12V system; or 600W on a 24V system. Start by adding up the total wattage of all the Pendants and Spots being used on the configuration. For example, 6 Quick Adapt Pendants and Spots x 50W each = 300W. Match up the total wattage with the appropriate transformer. In the example above, a 300W transformer will be appropriate.

The transformer is key to the Monorail system. If total wattage of Pendants and Spots exceed the transformer wattage, you have 2 options. You can use a lower wattage lamps for the Pendants and or Spots. Another option is to introduce a second transformer. When using a second transformer, the power will be isolated. A non-conductive connector may be used to create a continuous run but powered by two separate power sources.

4. TRANSFORMERS

TRANSFORMER OPTIONS

Surface Mounted Transformers

Features:

- Installed in a finished ceiling.
- The transformer is visible, it is part of the Monorail System.
- Select Electronic or Magnetic Surface Mounted Transformer.

Remote Transformers

Features:

- Installed behind the ceiling or wall.
- The transformer is hidden from view, provides a cleaner look.
- Select Electronic or Magnetic Remote Transformer.

SURFACE MOUNTED TRANSFORMERS

Surface Mounted Transformers are installed in a finished ceiling. Transformer housing is a visible part of the system. There are two types of Surface Mounted Transformers:



ELECTRONIC SURFACE MOUNTED TRANSFORMERS

Features:

- Smaller profile, lighter weight.
- Electronic Dimmers may be used for dimming.
- Compatible with 3" Standoffs.
- Use MA-PFS48/96 for longer drops. Sold separately.

MODEL	INPUT-OUTPUT	MAX WATT	FINISH
MST-12012/150E	120V-12V AC	150W	SN – Satin Nickel / CH – Chrome
MST-12012/300E	120V-12V AC	300W	SN – Satin Nickel / CH – Chrome



MAGNETIC SURFACE MOUNTED TRANSFORMERS

Features:

- Larger profile, heavier weight.
- Magnetic Dimmers may be used for dimming.
- Compatible with 3" Standoffs.
- Use MA-PFS48/96 for longer drops. Sold separately.

MODEL	INPUT-OUTPUT	MAX WATT	FINISH
MST-12012/150M	120V-12V AC	150W	SN – Satin Nickel / CH – Chrome
MST-12012/300M	120V-12V AC	300W	SN – Satin Nickel / CH – Chrome



OPTIONAL EXTENSION

Each Surface Mounted Transformer is a standoff in itself. It is compatible with 3" standoff. For longer drops, a Power Feed Cable Extender may be used to bring power to Rail. Ideal for sloped ceiling applications. May be field cut. **MA-PFBR** bushing that goes into the canopy is included.

MODEL	DESCRIPTION	FINISH
MA-PFS48	48" Power Feed Cable Extender	SN – Satin Nickel / CH – Chrome
MA-PFS96	96" Power Feed Cable Extender	SN – Satin Nickel



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REMOTE TRANSFORMERS

Remote Transformers are installed behind the ceiling or wall. Transformers are not visible, and provide a clean look.

MAGNETIC SURFACE MOUNTED TRANSFORMERS

Features:

- Magnetic Dimmers may be used for dimming.
- To bring power from transformer to Rail, select from the following:
Power Feed options: MA-PF1, MA-PF2, MA-PFW, MA-PFCS48/96
Power Feed Canopy optional suspensions: MA-PFE12/24/36/48



MODEL	INPUT-OUTPUT	MAX WATT	CIRCUITRY
MRT-12012/300M	120V-12V AC	300W	1 x 300W
MRT-12012/600M	120V-12V AC	600W	2 x 300W
MRT-12012/1200M	120V-12V AC	1200W	4 x 300W
MRT-12024/600M	120V-24V AC	600W	1 x 600W
MRT-12024/1200M	120V-24V AC	1200W	2 x 600W
MRT-27712/300M	277V-12V AC	300W	1 x 300W
MRT-27712/600M	277V-12V AC	600W	2 x 300W

POWER FEEDS FOR TRANSFORMERS



SINGLE POWER FEED CANOPY

For use with Remote Transformer. Mounts over an electrical junction box and brings power to a single run of Rail. 25A Max. per circuit. Compatible with 3" Rigid Standoff. May be extended with Power Feed Extension Rod.

MODEL	FINISH
MA-PF1	SN – Satin Nickel CH – Chrome



POWER FEED EXTENSION

For use with Single/Dual Power Feed Canopies. Furnished with Rail Feed. Use (1) with MA-PF1 to bring power to a single run of Rail; or (2) MA-PF2 to bring power to two isolated runs of Rail.

MODEL	DESCRIPTION	FINISH
MA-PFE12	12" Power Feed Ext.	SN – Satin Nickel CH – Chrome
MA-PFE24	24" Power Feed Ext.	SN – Satin Nickel
MA-PFE36	36" Power Feed Ext.	SN – Satin Nickel CH – Chrome
MA-PFE48	48" Power Feed Ext.	SN – Satin Nickel CH – Chrome



DUAL POWER FEED CANOPY

For use with Remote Transformer. Mounts over an electrical junction box and brings power to two isolated runs of Rail. 25A Max. per circuit. Compatible with 3" Rigid Standoff. May be extended with Power Feed Extension Rod.

MODEL	FINISH
MA-PF2	SN – Satin Nickel CH – Chrome



CABLE SUSPENSION POWER FEED CANOPY

For use with Remote Transformer. Canopy mounts over an electrical junction box and brings power to Rail. 25A Max. Ideal for sloped ceiling applications. Field cuttable.

MODEL	DESCRIPTION	FINISH
MA-PFCS48	48" Cable Power Feed	SN – Satin Nickel CH – Chrome
MA-PFCS96	96" Cable Power Feed	SN – Satin Nickel CH – Chrome



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WALL MOUNT



WALL MONORAIL POWER FEED

Furnished with canopy for use with remote transformer. Canopy mounts over an electrical junction box and brings power to Rail. Includes Support Cable. 25A Max. Rail sold separately.

MODEL	DESCRIPTION	FINISH
MA-WMPF06	6" Power Feed Extension from Wall	SN – Satin Nickel / CH – Chrome
MA-WMPF12	12" Power Feed Extension from Wall	SN – Satin Nickel / CH – Chrome
MA-WMPF18	18" Power Feed Extension from Wall	SN – Satin Nickel / CH – Chrome
MA-WMPF24	24" Power Feed Extension from Wall	SN – Satin Nickel / CH – Chrome
MA-WMPF36	36" Power Feed Extension from Wall	SN – Satin Nickel / CH – Chrome



WALL MONORAIL SUPPORT BRACKETS

Non electrical. Pairs up with MA-WMPF to provide support for Monorail. Use two or more Brackets for longer runs of Rail. Includes Support Cable.

MODEL	DESCRIPTION	FINISH
MA-WM06	6" Support Bracket from Wall	SN – Satin Nickel / CH – Chrome
MA-WM12	12" Support Bracket from Wall	SN – Satin Nickel / CH – Chrome
MA-WM18	18" Support Bracket from Wall	SN – Satin Nickel / CH – Chrome
MA-WM24	24" Support Bracket from Wall	SN – Satin Nickel / CH – Chrome
MA-WM36	36" Support Bracket from Wall	SN – Satin Nickel / CH – Chrome



WALL MOUNTED POWER FEED

Wall Mounted Power Feed for Remote Transformer. Single Feed Mounts over electrical junction box and brings power to a single run of rail. 25A Max.

MODEL	DESCRIPTION	FINISH
MA-PFW	Wall Mounted Power Feed	SN – Satin Nickel / CH – Chrome



CEILING TO WALL CONNECTOR

Conductive connector joins two sections of Rail from ceiling to wall at 90° angle.

MODEL	DESCRIPTION	FINISH
MA-CW	Ceiling-to-Wall Connector	SN – Satin Nickel

INSTALLATION INSTRUCTIONS

LOW VOLTAGE MONORAIL BASIC COMPONENTS

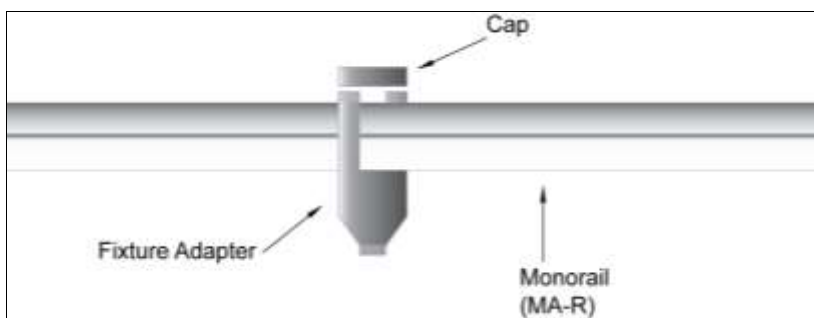


CAUTION

- Read all instructions before attempting to install this product.
- Ensure main power is off before attempting to install, modify, or wire this product.
- Do not install in a wet or damp location.
- All electrical equipment should be installed by a qualified electrician or technician in accordance with local electrical codes and National Electrical Code.

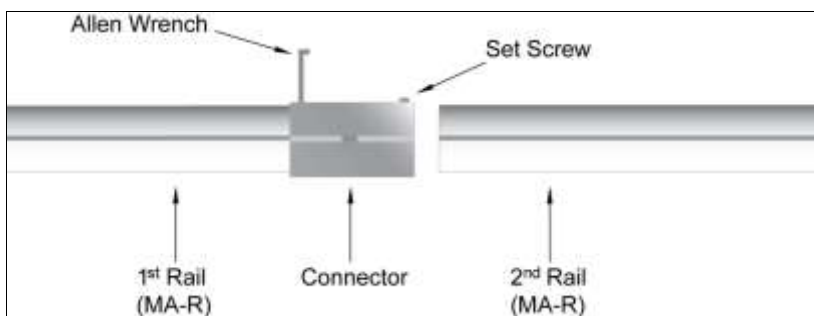
NOTE: Configure design and layout of system on floor before attempting to install any of the following products.

MA-FA • Fixture Adapter



1. Unscrew cap from Fixture Adapter.
2. Insert Fixture Adapter onto installed Monorail system.
3. Replace cap onto Fixture Adapter and tighten.

MA-I • Conductive Connector & MA-I-NC • Non-Conductive Connector



1. Insert rail into open connector end.
2. Ensure the rail is set completely within the connector.
3. Tighten setscrew with Allen wrench. (Included)

INSTALLATION INSTRUCTIONS

LOW VOLTAGE MONORAIL BASIC COMPONENTS

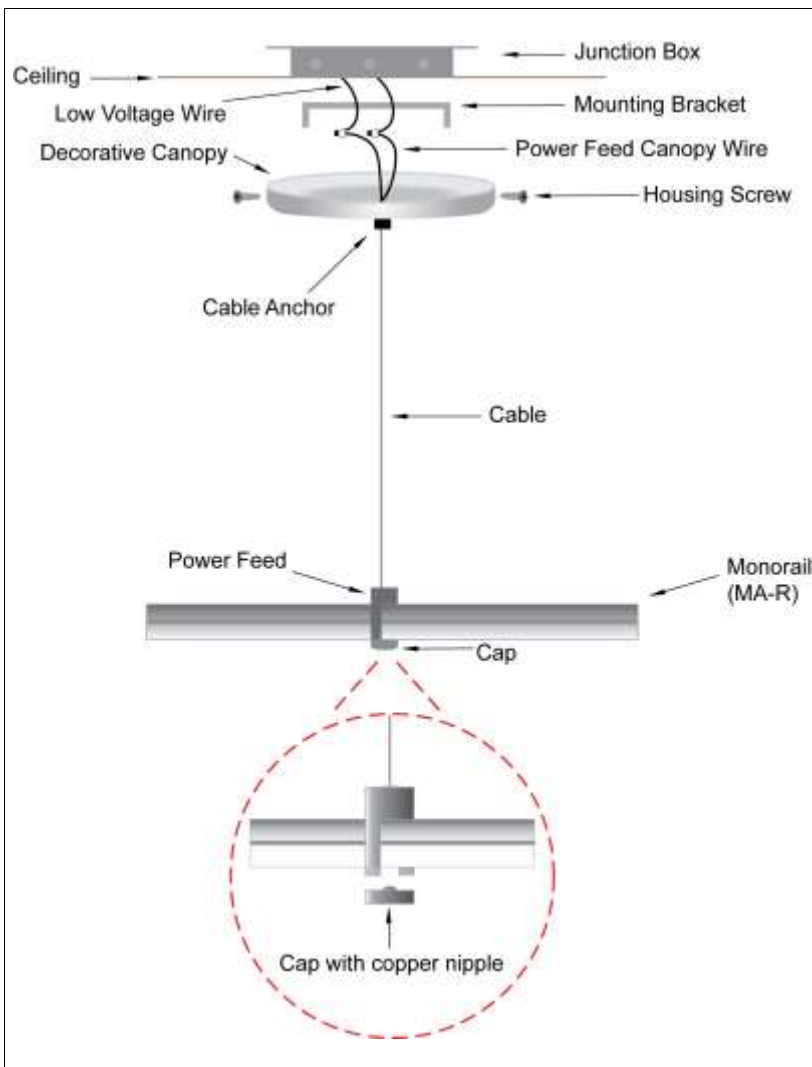


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NOTE: Install remote power supply first.

MA-PFCS48 & MA-PFCS96 • Cable Suspension Power Feed Canopy



1. Remove decorative canopy from mounting bracket by unscrewing housing screws.
2. Secure mounting bracket to junction box by lining up bracket slots with junction box holes.
3. Adjust cable length to desired height by loosening the anchor.
4. Connect low voltage wire to power feed canopy wires.
5. Place wires into junction box.
6. Place excess cable into decorative canopy.
7. Mount decorative canopy to mounting bracket with housing screws.
8. Remove cap from the power feed.
9. Insert the monorail into the power feed.
10. Replace and tighten cap onto the power feed. Adjust copper nipple within the cap as needed to make a good contact. Double check cap has been tightened and ensure a good connection is made. Loose connections may damage your system.

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LOW VOLTAGE MONORAIL BASIC COMPONENTS

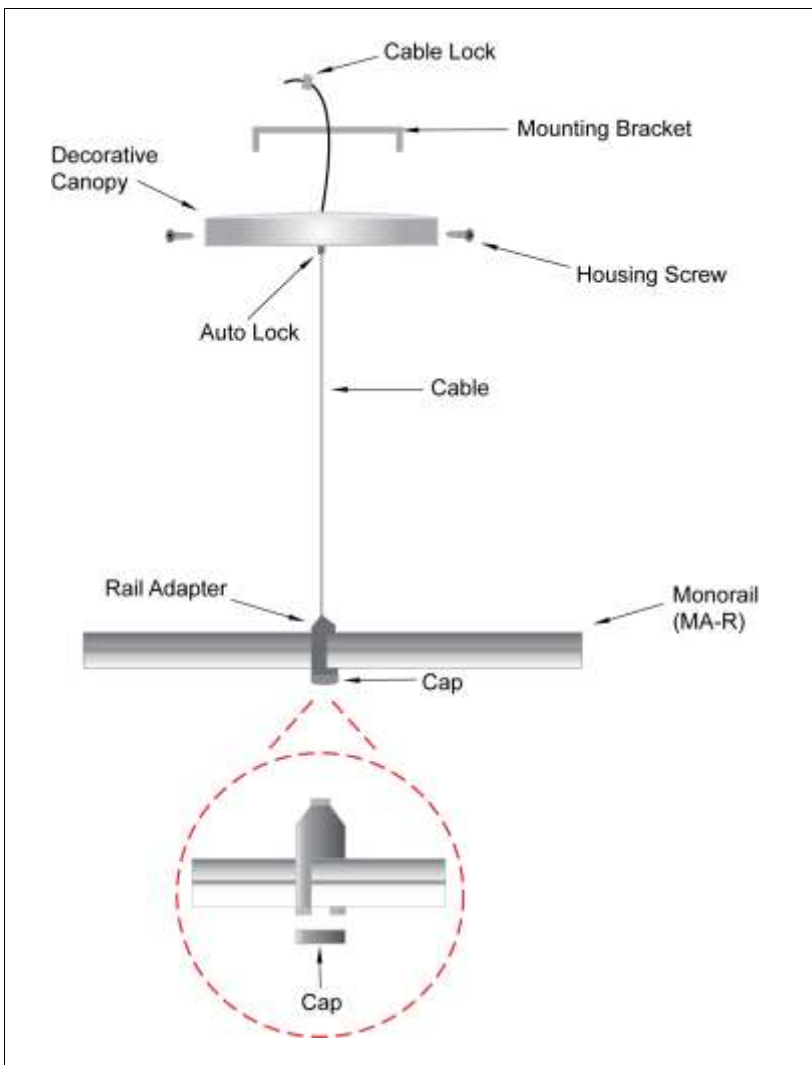


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NOTE: Configure design and layout of system on floor before attempting to install this product.

MA-SC12 • Cable Standoff



1. Remove decorative canopy from mounting bracket by unscrewing housing screws.
2. Secure mounting bracket to mounting surface.
3. Adjust cable length by pushing cable up into the decorative canopy. The decorative canopy's auto lock mechanism will hold the cable to desired length.
4. Place excess cable into decorative canopy.
5. Adjust cable length by pushing cable up into the decorative canopy. The decorative canopy's auto lock mechanism will hold the cable to desired length.
6. Place excess cable into decorative canopy.
7. Mount decorative canopy to mounting bracket with housing screws.
8. Remove cap from the rail adapter.
9. Insert monorail into the rail adapter.
10. Replace and tighten cap onto the rail adapter.

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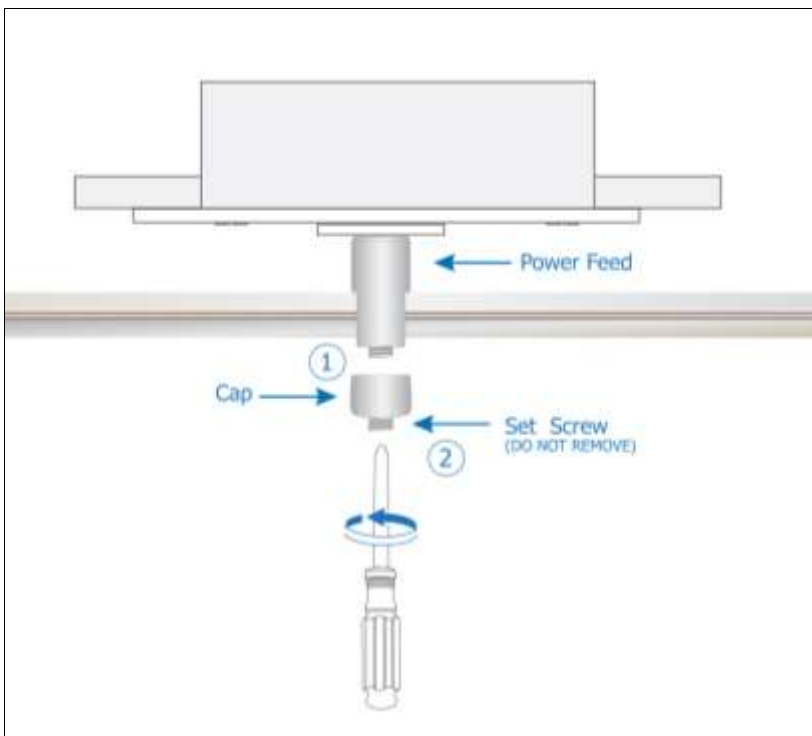


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Cap to Power Feed Connection



1. Unscrew the cap from the power feed.
2. Slightly loosen the set screw on the cap, **DO NOT REMOVE IT**.
3. Place the Monorail into the power feed.
4. Tighten the cap to the power feed. Make sure the cap is not cross threaded.
5. Tighten the set on the cap firmly for proper power connection.

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LOW VOLTAGE MONORAIL BASIC COMPONENTS

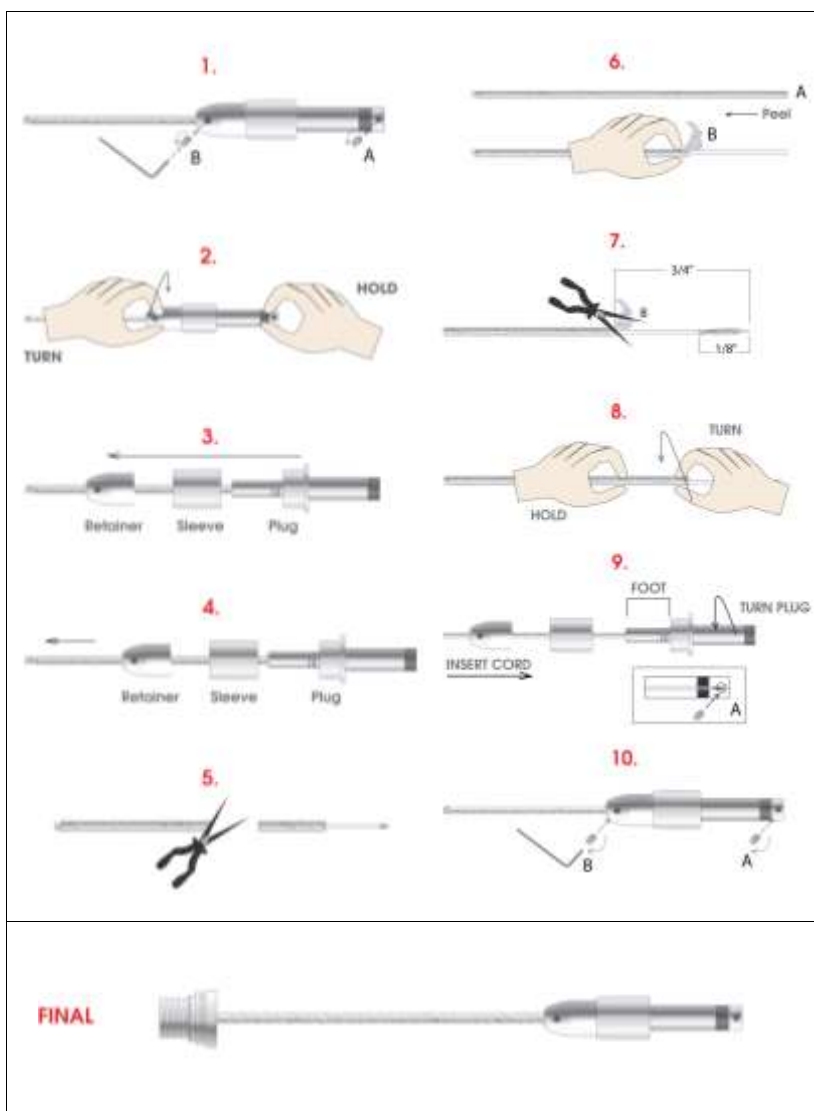


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Quick Adapt Connector • Field Cut Instructions



1. Locate the Quick Adapt connector at the top of the coaxial cord. Completely remove screws A and B with the provided Allen key.
2. While holding the tip of the Quick Adapt connector, remove the base by turning it away from you.
3. You can now identify the three components that make up the Quick Adapt connector.
4. Disassemble the Quick Adapt connector by pulling the coaxial cord out of and away from all three components.
5. Measure the desired length and cut the cord. (Note: Approx. 1 inch of the cord will be inserted into the Quick Adapt connector).
6. Once you've cut the cord to it's desired length, it will look like picture A shown to the left. Peel back the braided jacket approx. $\frac{3}{4}$ " from the tip of the insulated center wire (Picture B).
7. Cut off the excess braided jacket so that $\frac{3}{4}$ " of the insulated center wire is exposed. Strip no more than $\frac{1}{8}$ " off of the insulated center wire.
8. Twist the remaining braided jacket snugly around the center wire to ensure a clean insertion around the center wire to ensure a clean insertion into the Quick Adapt connector.
9. Reassemble the Quick Adapt connector by passing the cord through the retainer and sleeve first. Then insert the cord into the turn plug making sure that the foot of the plug covers the braided jacket. Turn the plug while inserting the cord for an easier insertion. Make certain you can see the center wire at the top opening A of the plug to ensure a good connection.
10. Again using the provided Allen key, tighten screw A at the tip of the plug. Reattach the sleeve and retainer to the plug. Tighten screw B on at the retainer. Your Quick Adapt Pendant is now ready to one of many mounting options in out Quick Adapt System.

NOTES

