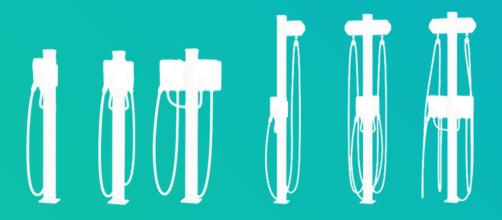


UNIVERSAL PEDESTAL **INSTALLATION GUIDE**

DESIGNED FOR USE WITH







Legal:

Any information in this manual may be changed without prior notice and does not represent any obligation on the part of the manufacturer. Any resulting damage due to disregard or actions contrary to the instructions in this manual is excluded from the product warranty. Images in this manual are for illustration purposes only and may differ from the delivered product.

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NEED ASSISTANCE?



Electric Avenue Technical Support: 1-888-353-2283 support@goelectricave.com



IMPORTANT SAFFTY INFORMATION

WARNING: This manual contains important instructions for installing and using the Universal Pedestal. When connecting electrical products, always follow basic precautions, including the following.

Read and follow all safety warnings and instructions before installing and operating the Universal Pedestal.

Install and operate only as instructed. Failure to do so may lead to property damage, injury or death and will void the standard warranty.

WARNING: The installation, commissioning and maintenance of the charging station must be performed by qualified and authorized electricians who are fully responsible for the compliance with existing standards and installation regulations.

WARNING: This installation manual is intended for qualified personnel only. The information and instructions in the manual regarding selecting the location, installation, and connection of the charging station must be adhered to.

IMPORTANT: Under no circumstances will compliance with the information in this manual relieve the user of their responsibility to comply with all applicable codes or safety standards. This document describes the most commonly used installation scenarios. If situations arise in which it is not possible to perform an installation following the procedures provided in this document, contact Electric Avenue.

WARNING: Risk of explosion. This device has arcing or sparking parts that should not be exposed to flammable vapors and is not suitable for use in hazardous locations. Do not install the pedestal and charging station near dangerous areas such as water pipes, gas pipes, and steam pipes to ensure safe use.

WARNING: Disconnect electrical power prior to installing the charging station.

Electric Avenue is not responsible for any damages that may occur resulting from custom installations that are not described in this document or for any failure to adhere to installation recommendations.



IMPORTANT SAFETY INFORMATION

WARNING: This pedestal and charging station must be grounded. Failure to ground the pedestal and charging station can lead to risk of electrocution or fire. The pedestal and charging station must also be connected to a grounded, metal, permanent wiring system. Equivalently, an equipment grounding conductor shall be run with circuit conductors and connected to the equipment grounding terminal or grounding lead on the EV charger.

WARNING: To reduce the risk of fire, connect only to a branch circuit overcurrent protection device in accordance with the CSA C22.1–15 Canadian Electrical Code, Part 1 (Canada) or ANSI / NFPA 70 National Electrical Code (USA).

IMPORTANT: After charging is completed, the charging connector should be promptly placed back into the connector holster to avoid exposing the connector head directly to the outside elements to prevent abnormal pollution.

WARNING:

- DO NOT touch the connection points with any sharp metallic objects, in order to prevent damage.
- DO NOT use this product if any power cord or EV cable is frayed, has broken insulation, or shows any other indication of damage.
- DO NOT use this product if the pedestal is broken, cracked, open, or shows any other indication of damage.
- DO NOT attempt to remove, open, disassemble, repair, tamper with, or modify the pedestal.
- DO NOT attempt to mount the EV charger other than directed in this
 manual
- DO NOT put heavy objects on the pedestal.

NEED ASSISTANCE?



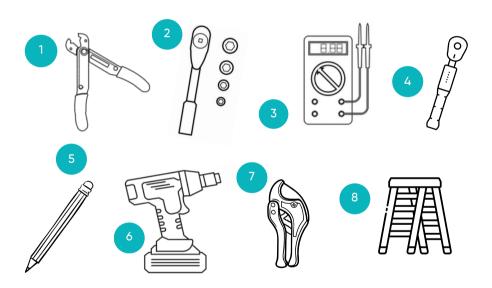
Electric Avenue Technical Support: 1-888-353-2283 support@goelectricave.com

TOOLS REQUIRED FOR INSTALLATION

Gather the following tools (not included) before installing your pedestal:

- 1. Wire stripper
- 2. Socket wrench
- 3. Voltmeter or digital multi-meter
- 4. Torque Wrench

- 5. Pencil or marker
- 6. Drill
- 7. Conduit Cutting Tool
- 8. Stepping stool



NEED ASSISTANCE?

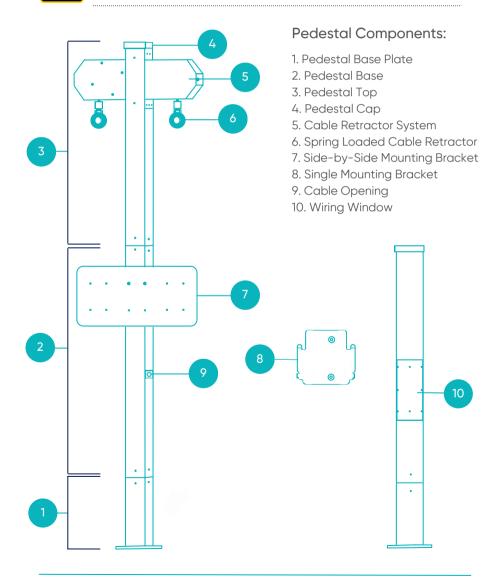


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PEDESTAL COMPONENTS



CAUTION: Do not install the pedestal and charging station near dangerous areas such as water pipes, gas pipes, and steam pipes to ensure safe use.



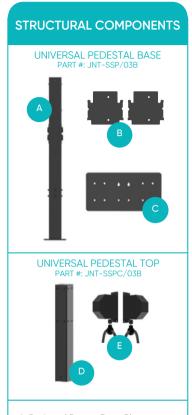
CONFIGURATION OPTIONS



Universal Pedestal Base



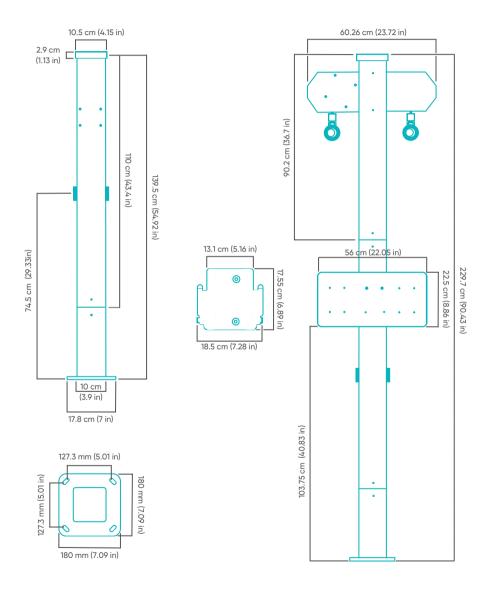
Universal Pedestal Base with Pedestal Top and Cable Management System



- A. Pedestal Base + Base Plate
- B. Single Mounting Bracket (x2)
- C. Side-by-Side Mounting Bracket
- D. Pedestal Top
- E. Cable Management System (x2)

#	PART #	COMPONENTS	CONFIGURATIONS
1		A + B	SINGLE
2	JNT-SSP/03B	A + 2xB	BACK-TO-BACK
3		A + C	SIDE-BY-SIDE
4		A + B + D + E	SINGLE w/ CABLE MANAGEMENT
5	JNT-SSPC/03B	A + 2xB + D + 2xE	BACK-TO-BACK w/CABLE MANAGEMENT
6		A + C + D + 2xE	SIDE-BY-SIDE w/CABLE MANAGEMENT

ASSEMBLED PEDESTAL DIMENSIONS



BOX CONTENTS

	UNIVERSAL PEDESTAL BASE (BOX 1)						
DESCRIPTION		SINGLE	BACK-TO- BACK	SIDE-BY- SIDE	IMAGE		
		QTY.	QTY.	QTY.			
1	Pedestal Base	1	1	1			
2	Pedestal Base Plate	1	1	1			
3	Base Cover	2	2	2			
4	M5*14mm Countersunk Head Torx Screw	8	8	8			
5	M8*18mm Pan Head Torx Screw	2	4	12			
6	M8 Spring Washer	0	0	2			
7	M8 Flat Washer	0	0	2			
8	M8 External Tooth Lock Star Washer	1	2	1			
9	M8*100mm Expansion Screw	4	4	4	(%		
10	M6*18mm Pan Head Torx Screw	8	8	8			
11	M6 Spring Washer	4	4	4			
12	M6 Flat Washer	4	4	4			
13	T30 Torx Screwdriver	1	1	1	(JIII		
14	T25 Torx Screwdriver Bit	1	1	1			
15	Pedestal Cap	1	1	1			
16	M5*12mm Pan Head Torx Screw	2	2	2			

Refer to the single, back-to-back, or side-by-side quantity columns to determine the number of each item needed for your installation setup.

BOX CONTENTS

	UNIVERSAL PEDESTAL BASE (BOX 1) CONTINUED					
DESCRIPTION		SINGLE	BACK-TO- BACK	SIDE-BY- SIDE	IMAGE	
		QTY.	QTY.	QTY.		
17	17 Cable Gland Open Plate		2	2		
18	Cable Gland Closed Plate	1	0	0		
19	Side-by-Side Mounting Bracket	0	0	1		
20	45° strain relief connector ²	0	0	1		
21	Single/Back-to-Back Mounting Bracket	1	2	2		
22	Pedestal Installation & User Manual	1	1	1		
23	EV Parking Sign	1 ¹	2 ¹	2 ¹	BLEFFEC WINCOLD * MARKET O	
24	Cross Machine Teeth Screw	2 ¹	41	41		

	UNIVERSAL PEDESTAL TOP (BOX 2)					
DESCRIPTION		SINGLE	BACK-TO- BACK	SIDE-BY- SIDE	IMAGE	
		QTY.	QTY.	QTY.		
1	Pedestal Top	1	1	1		
2	M6*18mm Pan Head Torx Screw	8	8	8		
3	M6 Spring Washer	8	8	8	0	

Refer to the single, back-to-back, or side-by-side quantity columns to determine the number of each item needed for your installation setup.

¹ Optional signage with pedestal top.
² 90° strain relief connector included with charger contents.

BOX CONTENTS

	UNIVERSAL PEDESTAL TOP (BOX 2) CONTINUED						
DESCRIPTION		SINGLE	BACK-TO- BACK	SIDE-BY- SIDE	IMAGE		
		QTY.	QTY.	QTY.			
4	M6 Flat Washer	8	8	8	0		
5	Pedestal Top Adapter	1	1	1			
6	M5*12mm Pan Head Torx Screw	2	2	2			

UNIVERSAL PEDESTAL TOP CABLE MAGEMENT SYSTEM (BOX 3)					
DESCRIPTION		SINGLE	BACK-TO- BACK	SIDE-BY- SIDE	IMAGE
		QTY.	QTY.	QTY.	
1	1 Cable Management System		2 ¹	2 ¹	
2	M6*18mm Pan Head Torx Screw	4 ¹	8 ¹	8 ¹	
3	M6 Spring Washer	4 ¹	8 ¹	8 ¹	
4	M6 Flat Washer	4 ¹	8 ¹	8 ¹	
	Cable Management Installation Toolkit	1 ¹	1 ¹	1 ¹	
	Rubber Sleeve	1 ¹	2 ¹	2 ¹	5
5	Inner Gland	1 ¹	2 ¹	2 ¹	
	Outer Gland	1 ¹	2 ¹	2 ¹	Õ
Cable Clamp		1 ¹	2 ¹	2 ¹	85

¹ Optional cable management system with pedestal top.

Refer to the single, back-to-back, or side-by-side quantity columns to determine the number of each item needed for your installation setup.

PREPARING THE CONCRETE BASE



CAUTION: Do not install the pedestal and charging station near dangerous areas such as water pipes, gas pipes, and steam pipes to ensure safe use.

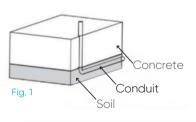


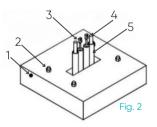
CAUTION: The concrete pad must be prepared in accordance with all local regulatory requirements. All dimensions and descriptions in this manual are minimum requirements only.

If a hardwired network is required, ensure you follow these guidelines:

- The LAN cable must long enough (1600 mm/63 in) to reach the ethernet port inside the charger from the concrete pad. It is recommended to add an additional 1 m of length for a service loop.
- The LAN cable must be fed in the same conduit as the incoming power cables. A CAT5e or CAT6 600 V rated LAN cable must be used. Ensure the cable meets all local regulatory requirements.

THE SCHEMATIC OF THE CONCRETE PAD:





NO.	QTY.	DESCRIPTION:	NOTES:
1	1	Concrete pad	Compressive strength > 3000 PSI
2	4	Anchor bolt	M12 x 1.75P x 100 mm
3	1	Ethernet cable	Length from concrete > 1600 mm
4	1	AC power cable	Length from concrete > 900 mm
5	2	Cable conduit	Height from concrete > 279-310 mm

Charging current 32 A Use 1/2" Conduit Charging current 48 A Use 3/4" Conduit

PREPARING THE CONCRETE BASE



CAUTION: Do not install the pedestal and charging station near dangerous areas such as water pipes, gas pipes, and steam pipes to ensure safe use.



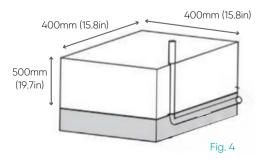
CAUTION: The concrete pad must be prepared in accordance with all local regulatory requirements. All dimensions and descriptions in this manual are minimum requirements only.

STFP 1

Build the concrete pad according to the specified requirements (reference Fig. 1 and Fig. 2 on page 12 and Fig. 3 and Fig. 4 below).



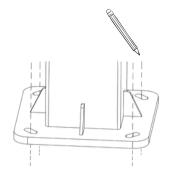
Fig. 3



INSTALLING THE BASE PLATE

STEP 1

Lay the pedestal base plate on the concrete pad, ensuring the input power cable is located precisely underneath the opening of the base plate. Mark (4) drilling locations on the concrete foundation using the holes in the pedestal base plate as reference



STEP 2

Remove the pedestal base plate. In the marked locations, drill (4) mounting holes with a 10 mm (0.39 in) diameter and a minimum depth of 84 mm (3.3 in).



STEP 3

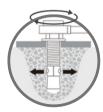
Place the pedestal base plate over the (4) holes and feed the incoming cable through the opening of the plate. Place the (4) supplied M8*100 mm expansion screws through the base plate holes, into the drilled holes. Hammer the screw so they are flush with the concrete pad.



STEP 4

Tighten the expansion screws with a socket wrench to secure the pedestal base plate to the concrete pad.



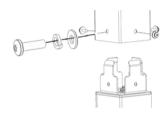


INSTALLING THE PEDESTAL BASE

STEP 1

Lift the pedestal base over the base plate and feed the incoming cable through the opening.

Secure the pedestal base to the base plate using (4) M6*18 mm pan head torx screws with (4) M6 spring washers and (4) M6 flat washers.



STEP 2

Secure the base cover over the base plate using (4) M6*18 mm pan head torx screws (no washers required).



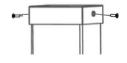
STEP 3

Unscrew and remove the (8) screws securing the wiring window cover to the pedestal base. After the cover is removed, set aside both the screws and the cover for use in subsequent steps.



STEP 4

Secure the pedestal cap to the top of the pedestal base using (2) M5*12 mm screws with (2) M5 flat washers.



NOTE: If the pedestal top will be added, leave the pedestal cap off and cover the holes with the (2) M5*12mm screws.



INSTALLING A SINGLE CHARGER

(For configurations #1 and #4 on pg. 6)

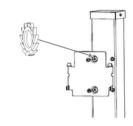
STFP 1

Detach the bracket from the sides of the charger by loosening and removing the (2) screws. Set aside the screws for use in subsequent steps.



STEP 2

Secure the single mounting bracket to the front side of the pedestal using (4) M8*18mm screws and (1) M8 external tooth lock star washer.



STEP 3

Screw the cable gland open plate over the cable opening on the left side of the pedestal base with (4) M5*14mm countersunk head screws. Secure the cable gland closed plate over the cable opening on the opposite side of the pedestal base with the same screws



STEP 4

Disassemble the 90° strain relief connector supplied with the charger. Pass the sealing ring and metal locknut through the wiring window, up towards the cable opening.

From the outside of the pedestal, pass the connector body and plastic tightening nut through the same cable opening, and loosely tighten the metal nut. Ensure the connector is angled upward to accommodate the cable direction

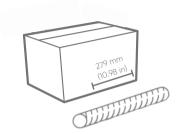


INSTALLING A SINGLE CHARGER

(For configurations #1 and #4 on pg. 6)

STEP 5

Use the 279 mm length marking on the pedestal base box as a guide to measure and mark a 279 mm length on the conduit supplied with the charger.



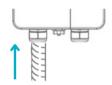
STEP 6

Using an appropriate cutting tool, neatly trim the conduit to the marked length.



STEP 7

Loosen the liquid tight connector situated on the bottom left side the charger. Slide the conduit length over the charger's power leads and fit the conduit into the loosened connector.

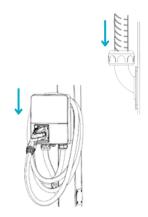


STEP 8

Guide the charger's power leads through the 90° connector and into the pedestal. Then fit the conduit into the loosened 90° connector.



Align the charger with the mounting bracket and gently slide the charger down onto the mounting bracket in preparation for connection.





SEE PAGE 22 FOR ELECTRICAL WIRING DETAILS.

INSTALLING BACK-TO-BACK CHARGERS

(For configurations #2 and #5 on pg. 6)

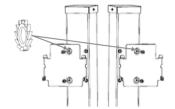
STEP 1

Detach the bracket from the sides of the charger by loosening and removing the (2) screws. Set aside the screws for use in subsequent steps. Repeat on both chargers.



STEP 2

Secure the single mounting bracket to the front side of the pedestal using (4) M8*18mm screws and (1) M8 external tooth lock star washer. Repeat on both sides



STEP 3

Screw the cable gland open plate over the cable opening on side the pedestal base with (4) M5*14mm countersunk head screws. Repeat on the both sides.



STFP 4

Disassemble the 90° strain relief connector supplied with the charger. Pass the sealing ring and metal locknut through the wiring window, up towards the cable opening.

From the outside of the pedestal, pass the connector body and plastic tightening nut through the same cable opening, and loosely tighten the metal locknut. Ensure the connector is angled upward to accommodate the cable direction. Repeat on both sides.

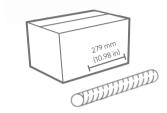


INSTALLING BACK-TO-BACK CHARGERS

(For configurations #2 and #5 on pg. 6)

STEP 5

Use the 279 mm length marking on the pedestal base box as a guide to measure and mark a 279mm length on the conduit supplied with the charger. Repeat on both conduits.



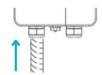
STEP 6

Using an appropriate cutting tool, neatly trim the conduit to the marked length. Repeat on both conduit lengths.



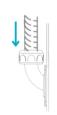
STEP 7

Loosen the liquid tight connector situated on the bottom left side the charger. Slide the conduit length over the charger's power leads and fit the conduit into the loosened connector. Repeat on both sides



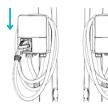
STEP 8

Guide the charger's power leads through the 90° connector and into the pedestal. Then fit the conduit into the loosened 90° connector. Repeat on both sides.



STFP 9

Align the charger with the mounting plate and gently slide the charger down onto the mounting bracket in preparation for connection. Repeat on both sides.





SEE PAGE 22 FOR ELECTRICAL WIRING DETAILS.

INSTALLING SIDE-BY-SIDE CHARGERS

(For configurations #3 and #6 on pg. 6)

STEP 1

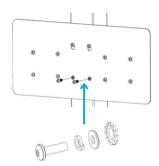
Detach the bracket from the sides charger by loosening and removing the (2) screws. Set aside the screws for use in subsequent steps. Repeat on both chargers.



STEP 2

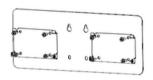
Secure the side-by-side mounting bracket to the pedestal base using (4) M8*18mm screws with (2) M8 spring washers and (2) M8 flat washers on the bottom two screws.

Use an M8 External Tooth Lock Star Washer between <u>one</u> of the bottom two flat washers and the side-by-side mounting bracket.



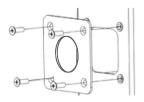
STEP 3

Screw the charger's original mounting bracket from step 1 to the side-by-side plate using (4) M8*18mm screws. Repeat with both brackets.



STEP 4

Screw a cable gland open plate over the cable opening on the side of the pedestal base with (4) M5*14mm countersunk head screws. Repeat on both sides.



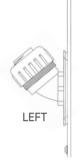
INSTALLING SIDE-BY-SIDE CHARGERS

(For configurations #3 and #6 on pg. 6)

STEP 5

Disassemble the 45° and 90° strain relief connectors. Pass the 45° connector sealing ring and metal locknut through the wiring window, up towards the <u>left</u> side cable opening.

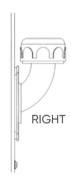
From the outside of the pedestal, pass the 45° connector body and plastic tightening nut through the same cable opening, and loosely tighten the metal locknut. Ensure the connector is angled upward to accommodate the cable direction.



STEP 6

Pass the 90° connector sealing ring and metal locknut through the wiring window, up towards the <u>right</u> side cable opening.

From the outside of the pedestal, pass the 90° connector body and plastic tightening nut through the same cable opening, and loosely tighten the metal locknut. Ensure the connector is angled upward to accommodate the cable direction



STEP 7

Use the 279 mm length marking on the pedestal box as a guide to measure and mark a 279 mm length on the conduit supplied with the charger.

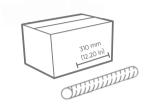


INSTALLING SIDE-BY-SIDE CHARGERS

(For configurations 3 and 6 on pg. 6)

STEP 8

Use the 310 mm length marking on the pedestal box as a guide to measure and mark a 310 mm length on the other supplied conduit.



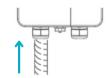
STEP 9

Using an appropriate cutting tool, neatly trim both conduits to the marked lengths.



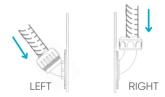
STEP 10

Loosen the liquid tight connector situated on the bottom left side the charger. Slide the 279 mm conduit length over the <u>left</u> charger's power leads and fit the conduit into the loosened connector. Repeat with the 310 mm conduit length on the <u>right</u> side.



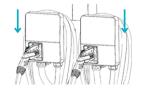
STEP 11

Guide the <u>left</u> charger's power leads through the 45° connector into the pedestal. Then fit the conduit into the loosened 45° connector. Repeat on the <u>right</u> side with the 90° connector.



STEP 12

Align the charger with the mounting plate and gently slide the charger down onto the mounting plate. Repeat on both sides.



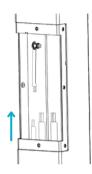


SEE PAGE 22 FOR ELECTRICAL WIRING DETAILS.

ELECTRICAL WIRING

STEP 1

Thread the input power cables from the bottom of the pedestal base up towards the wiring window to meet the power leads from the charger(s).

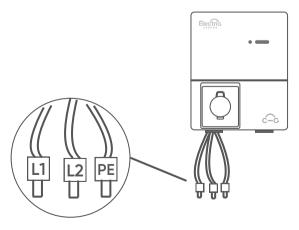


STEP 2

Terminate the charger leads to the incoming power. Ensure all connections are adequately grounded, taking into account the pedestal grounding wire. To complete the wiring, make the following connections:

- Connect the L1 lead to the grid L1
- Connect the L2 lead to the grid L2
- Connect the PE lead to the grid PE

NOTE: For dual chargers, it is recommended to use 2-port multi-tap connectors for L1 and L2, and a 5-port multi-tap connector for all ground leads.



ELECTRICAL WIRING

STEP 3

Replace the wiring window cover and secure it to the pedestal with the (8) original screws.



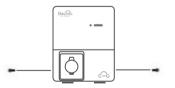
STEP 4

Tighten all loose connectors to secure the conduit(s) in place.



STEP 5

To complete the installation, secure the bracket to the sides of the charger by tightening the (2) original screws. Repeat for all chargers.



NEED ASSISTANCE?



Electric Avenue Technical Support: 1-888-353-2283 support@goelectricave.com

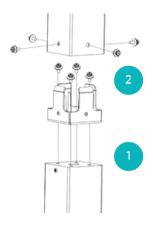
MOUNTING THE TOP & CABLE MANAGEMENT SYSTEM INSTALLING THE CABLE MANAGEMENT SYSTEM

STEP 1

Secure the adapter to the base with (4) M6*20mm screws with (4) M6 spring washers and (4) M6 flat washers.

STEP 2

Lift the pedestal top over the pedestal base adapter and secure it using (4) M6*18mm screws with (4) M6 spring washers and (4) M6 flat washers



STEP 3

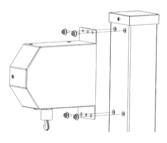
Secure the pedestal cap to the top of the pedestal top using (2) M6*20mm screws with (2) spring washers and (2) flat washers.



STEP 4

Secure the cable management system to the pedestal top with (4) M6*20mm screws, (4) flat washer and (4) spring washers. Repeat for both sides, if required.

NOTE: Avoid installations which result in the charging crossing cables.



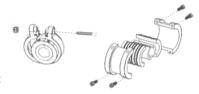
MOUNTING THE TOP & CABLE MANAGEMENT SYSTEM POSITIONING THE CABLE CLAMP



IF DUAL CABLE MANAGEMENT IS REQUIRED, REPEAT STEP 1 - STEP 7 ON BOTH SIDES.

STFP 1

Unscrew and remove the screw and nut to open the cable clamp. Unscrew and remove the (2) outer gland screws to open the inner fittings. Keep the screw for use in subsequent steps.



STEP 2

Choose a location along the charging cable to attach the cable retractor.

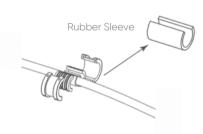
STEP 3

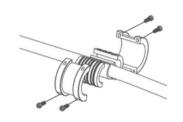
Place the rubber sleeve over the charging cable. Cover the rubber sleeve with the inner fitting. Cover the sleeve and inner fitting with the outer fitting.

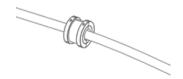
NOTE: The portion of cable between the clamp and the charging connector must not touch the ground when the cable management system is fully retracted. The cable shall hang approximately 5 cm (2.5 in) above ground.



Screw the outer fitting pieces together using the (2) original screws.







MOUNTING THE TOP & CABLE MANAGEMENT SYSTEM POSITIONING THE CABLE CLAMP

STEP 5

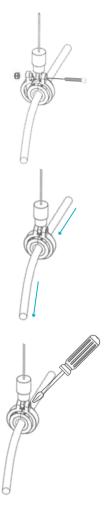
Wrap the cable clamp over the outer fitting and loosely screw the original nut and screw into the clamp, loose enough to slide the the cable clamp fitting along the cable.

STEP 6

Slide the cable clamp fitting to the desired section of the cable. Before tightening, test the fit to determine the final length.

STEP 7

To complete, secure the cable clamp in the desired location



NEED ASSISTANCE?



Electric Avenue Technical Support: 1-888-353-2283 support@goelectricave.com

MOUNTING THE EV PARKING SIGN

Two (2) EV CHARGING ONLY parking signs included with pedestal top. You can use the pedestal top to display your signs, or easily mount to standard street parking sign poles.

STEP 1

Secure the parking sign to the front of the pedestal top using (2) cross machine teeth screws.

STEP 2

If back-to-back configuration is required, repeat step 1 on the back with the second sign.



WxH: 20 cm (7.9 in) x 25 cm (9.8 in)

