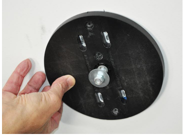
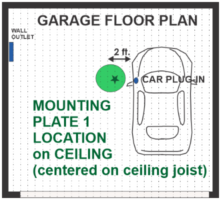
INSTALLATION DETAIL

This page provides very detailed instructions for installing EV Cable Glide.

STEP 1: MOUNTING PLATES



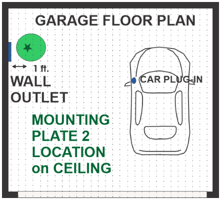
The Mounting Plates attach to the garage ceiling. They define the location of the 3 Pulley Assemblies. (see the 3 sketches below)


GARAGE FLOOR PLAN
WALL OUTLET
2 ft.
CAR PLUG-IN
MOUNTING PLATE 1 LOCATION on CEILING (centered on ceiling joist)

MOUNTING PLATE 1 LOCATION

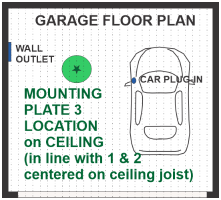
The first Mounting Plate should be within 2 feet of the car's charging port.

It should be directly offset from the car (not over the car).



MOUNTING PLATE 2 LOCATION

The second Mounting Plate should be within 1 foot of the wall where the EVSE is connected to the electrical outlet.


GARAGE FLOOR PLAN
WALL OUTLET
CAR PLUG-IN
MOUNTING PLATE 3 LOCATION on CEILING (in line with 1 & 2 centered on ceiling joist)

MOUNTING PLATE 3 LOCATION

Mounting Plate 3 is located between Mounting Plates 1 & 2.

LOCATING CEILING JOIST

All three Mounting Plates MUST BE ATTACHED to Ceiling Joists. They are not be supported by Dry Wall.

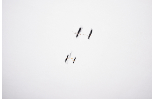
Mant techniques can be used to locate a joist. You can measure from a "known" location.

A good stud finder can help.

CONFIRMING JOIST LOCATION

Our ***MOST TRUSTED*** technique to verify the joist location is by drilling.

We use an 1/8″ bit and drill in REVERSE. The bit (when running in reverse) plunges through the dry-wall easily but stops when it hits the wood joist.

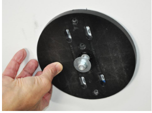


MARK CEILING

Drill across the width of the joist to locate both edges & mark these edges with dark lines.

Move 4″ along the joist and repeat this operation.

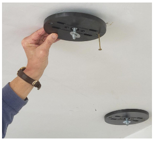
This provides 4 joist "Edge Marks" for alignment of the Mounting Plate.



ALIGNING MOUNTING PLATE WITH MARKS

Position the Mounting Plate on the ceiling.

Slide it until all four Alignment SLOTS match the four joist "Edge MARKS" on the ceiling.

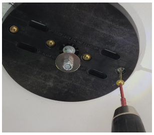


INITIAL ATTACHMENT

One of the holes in the Mounting Plates has gray putty in it.

Insert a GRK (gold) screw into this hole.

(This frees up a hand initial attachment of the Mounting Plate)



ATTACH ALL 3 MOUNTING PLATES

Use the “Location Sketches” (above) to locate and attach all three Mounting Plates.

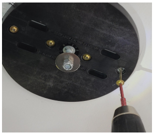
The GRK screws will spin freely if you have missed the Joist. NOTE: they will NOT hold in DRYWALL

(time to REDO)

LOCATING AND SECURELY FASTENING THE MOUNTING PLATES TO THE JOISTS IS THE MOST DIFFICULT PART OF THE INSTALLATION.

THE FOLLOWING STEPS ARE EASY!

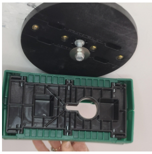
STEP 2: PULLEY COVERS



MOUNTING PLATE BOLT

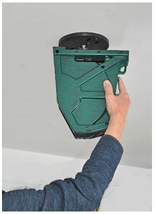
The Pulley Covers attach to the bolts in the Mounting Plates.

Flat washers and lock nuts are pre-assembled on the bolts.



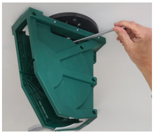
KEYWAY

There is a “keyhole” shaped slot in the top of each Pulley Cover. The large opening in the “keyway” fits over the flat washer.



LARGE PULLEY COVER NEAR CAR

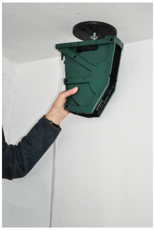
Select the Large Pulley Cover that does not have the shock cord attached to it. Align the Pulley Cover up to the Mounting Plate bolt & snap it into place. You will hear/feel a slight click when this happens.



TIGHTEN LARGE PULLEY COVER NEAR CAR

Double check to see if flat washer is visible & the bolt is in the narrow “keyway” slot.

Tighten lock-nut so that cover is snug to ceiling.



INSERT LARGE PULLEY COVER NEAR WALL

Select the Large Pulley Cover that has the shock cord attached to it.

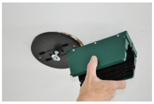
Install it on the Mounting

TIGHTEN LARGE PULLEY COVER NEAR WALL

Double check to see if flat washer is visible & make sure the cover is snapped into narrow end of “key hole”.

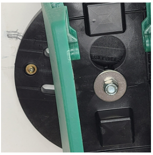
Rotate cover so that it is aligned with other covers.

Hand tighten lock-nut so the cover is snug to ceiling.



INSERT SMALL PULLEY COVER

Install the Small Pully Cover the same way as the others and align it.

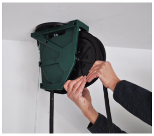


CHECK KEY-HOLE

Check all three Pulley Covers to ensure that the lock-nut and washer are under the narrow part of the key-hole.

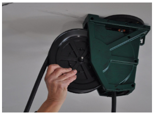
Plate next to the wall.

STEP 3: LOAD CABLE



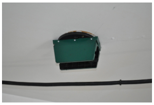
LARGE PULLEY COVER AT WALL

Drape cable over pulley & insert pulley axle slots.



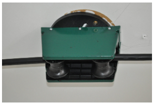
LARGE PULLEY COVER NEAR CAR

Drape cable over pulley & insert pulley axle slots.



SMALL PULLEY COVER

The cable will now “float” below the Small Pulley Cover.

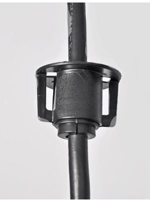


SMALL PULLEY COVER

Drape the cable over the two small pulleys. Insert the pulleys & downward force to lock them in place.

Test the cable to see if it GLIDES Smoothly across the pulleys.

STEP 4: STOPPERS



STOPPERS

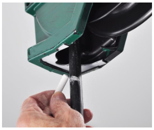
There are 2 STOPPERS.

These fit on opposite ends your car’s cable and control how far the cable moves in both directions

SELECT STOPPER BUSHING SIZE

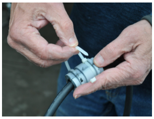
The STOPPERS are made up of two components. The STOPPER Bushing and the STOPPER Caps.

Choose the STOPPER Bushing size that fits tightly on your cable.



STOPPER AT CAR LOCATION

Position the cable so that you have desired “head clearance”. Use the supplied blue chauk to mark the cable at the bottom of the Cable Cover.



INSTALL STOPPER

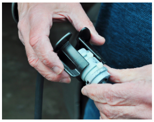
Wrap the Bushing around the cable and secure with White Zip Ties. Pull tight with needle nose plyers and use Needle Nose snippers to cut excess.

DO NOT use a Knife to cut Zip Ties

CUT ZIP TIES

Use needle-nose clipper to to cut Zip Ties.

Do NOT use a KNIFE



STOPPER CAP

STOPPER Cap slides over BUSHING.

Flat Part of cap goes on top (upper side of cable).

STOPPER AT WALL LOCATION

Pull the cable down at car location so that the connector is 1 ft. from the floor.

Use blue chaulk to mark the STOPPER location at the bottom of the Pulley Cover at

STOPPER AT WALL LOCATION

Use this mark to install STOPPER Bushing and STOPPER Cap.

DO NOT use a Knife to cut Zip Ties

the wall location.

STEP 5: RETRACTION SYSTEM

You pull your EVSE cable down to plug it in to the car. You release it when you want it stored overhead.

A simple retraction system is used to store it overhead when you let go.

A Shock Cord is installed at the "wall" Pulley Cover location to retract the cable.

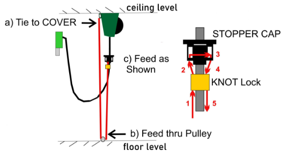
SHOCK CORD PULLEY

The small metal pulley is part of the cable retraction system,

This pulley is located directly below the wall Pulley COVER.

Fasten it to the wall at floor level.

SHOCK CORD PATH



SHOCK CORD ROUTING

a) Tie to Pulley Cover at ceiling

b) Feed through metal pulley at floor

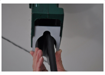
c) Fastened to STOPPER CAP:

STEP 6: LATCHING

LATCH CLIP CHOICES

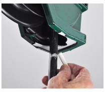
There are two LATCH CLIPS provided.

Select the smaller of the two Latch Plates that fits loosely over your cable.



INSERT LATCH CLIP

Insert the Latch Clip into the bottom of the "car" Pulley Cover.



LATCH RING LOCATION

Pull the cable down until the EVSE connector is approximately 1 foot from the floor.

Mark the cable at the bottom of the PULLEY COVER with the supplied white chalk.

INSTALLATION TIP

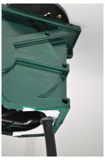
To make the installation of the Latch Ring easier, temporarily remove the "car" Pulley.

This facilitates installing the Latch Ring while standing on the floor.

The LATCH RING is made up of neoprene tubing. Wrap the neoprene tubing around your cable and use needle-nose plyers to cut it approximately 1/4 inch shorter than the circumference of your cable.

Insert the small black ZIP TIE into the neoprene tubing.

Wrap the LATCH RING around the cable, tighten Zip Tie, & use needle nose plyers to snip off the excess.



LATCH CLIP & LATCH RING INSTALLED

This is how the Latch Clip & Latch Ring work together.

They relieve the tension at the electrical connection.