

Installation

1 The OptiMate O-97P Mag Code magnetic port includes the following components -

a MagCode Port, pre-mounted on a square flange with rubber washer that includes a rubber cap. (NOTE: The MagCode port does not require removal from the flange i.e. leave it mounted on the flange).

b Battery connection cable set, length = 100cm / 40", with isolated push-on spade connectors attached to the blade terminals of the port and terminating in ring terminals that attach to the bolts on the battery clamp terminals. A 15A ATO fuse protects against accidental short circuit or overload. The ring terminals are dual size: M8 default, M10 with tab removed (5/16" default, 3/8" with tab removed).

c 4 pcs of Allen bolts (pan washerhead, 4x16mm), **4 x flat washers** and **4 x locking nuts**, to mount the PORT's flange to the panel.

2 **Required tools (not included):**

- a Powerdrill
- b \varnothing 35mm / 1 3/8" hole saw (suitable for panel material type)
- c 4mm / 5/32" drill (suitable for panel material type)
- d 2.5mm allen key
- e 7mm hex wrench.

PREPARE:

3 Find a suitable flat panel surface to mount the PORT.

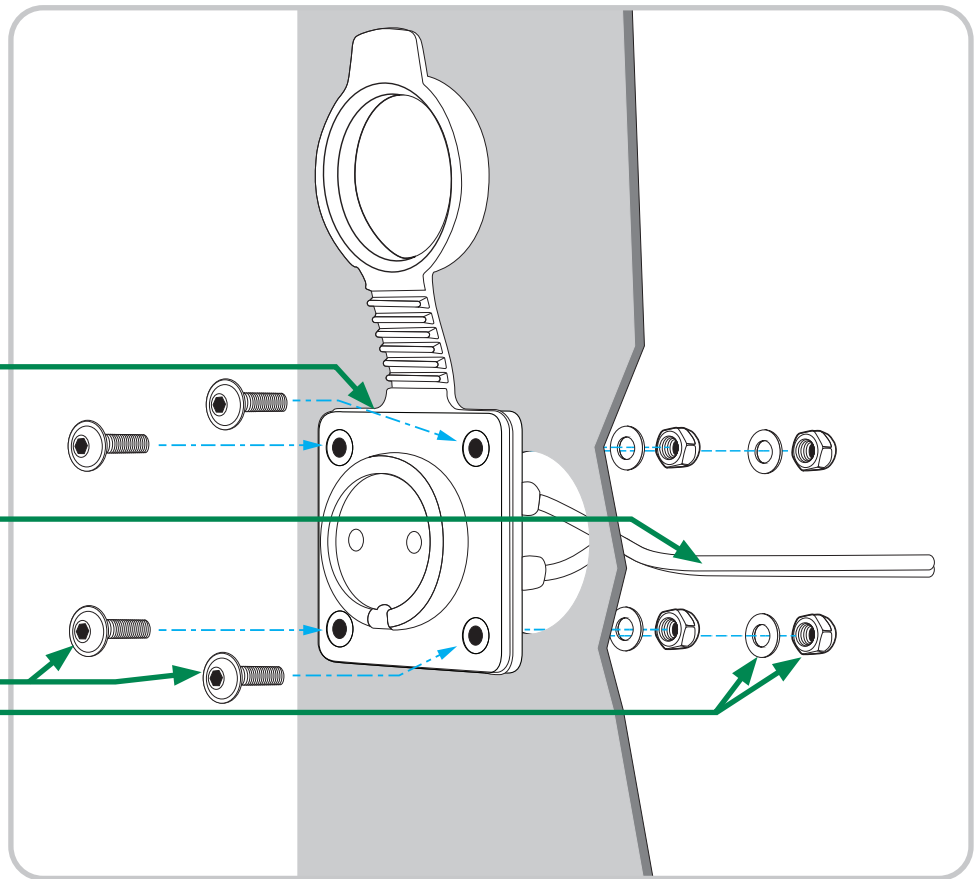
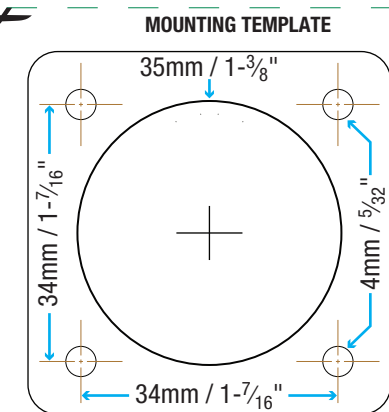
IMPORTANT: The included battery connection cable length is 100cm / 40". Choose a port location that allows for ease of connection to both battery terminals and allows for safe cable routing from port to battery away from a vehicle's moving engine (fan, pulley, belt), or moving body parts (hood/bonnet hinges or latch) and heat generating engine parts (exhaust, manifold).

4 A mounting template (cut-out) is included on this sheet below. (**IMPORTANT: print 1 to 1 size**).

5 Place the template in position where you want to mount the PORT.

6 Mark the center position of the 35mm / 1-3/8" hole and the 4 x 4mm backplate mounting holes. TIP: Ensure that the backplate mounting screws can be accessed behind the panel, to receive the included washers and locking nuts.

7 **DRILLING MAIN HOLE:** With the 35mm / 1-3/8" holesaw, carefully drill the main hole in the panel. TIP: for positional accuracy first drill a pilot hole that is slightly smaller than the holesaw's guiding bit, then proceed with the holesaw. After drilling, clean the sides



of the hole with a suitable round file.

8 Check if the:

- a PORT and flange fit in the hole and mounts flush on the front / outside of the panel.
- b flange's 4 mounting holes line up with your markings. Adjust the markings if necessary.

9 With the 4mm / 5/32" bit, drill the 4 backplate mounting holes.

MOUNT:

10 The flange :

a Position the flange over the 4 mounting holes. Push the Allen bolts through the holes. **IMPORTANT:** Do not use the included steel washers yet. The allen bolts have pan washer heads that compress against the front rubber shafts of the rubber flange washer (with cap).

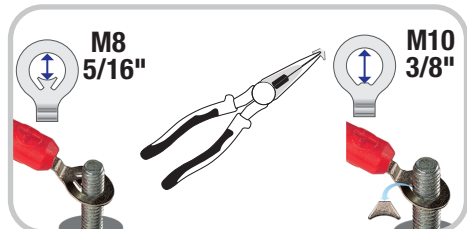
b Behind / inside the panel, each bolt should receive a steel washer followed by a lock nut. Turn in the lock nuts by hand until they remain in position. Tighten all bolts (2.5mm allen key) and nuts (7mm hex wrench) until the flange seats securely on the panel.

DO NOT OVERTIGHTEN.

11 The battery cable set :

a Mount the red positive (+) ring terminal to the positive (+) clamp terminal that is secured onto the battery's positive (+) post. Mount the black negative (-) ring terminal to the negative (-) clamp terminal that is secured onto the battery's negative (-) post. TIP: The ring terminals' default size is M8 / 5/16" but can be adjusted to M10 / 3/8" by removing the inner triangular spacer as illustrated below.

b Ensure the cable is routed away from moving engine parts (fan, pulley, belt) and away from heat generating



engine parts (exhaust). TIP: Permanently secure with cable straps / zip ties where needed (NOTE: cable straps / zip ties not included) up to the rear of the port. **IMPORTANT:** If the battery cable set was initially disconnected from the PORT, first connect to the port before securing the cable. Push the red positive (+) spade terminal into the blade marked + (positive) on the rear of the port, and the black negative (-) spade terminal onto the negative (-) blade located on the rear of the port.

CONNECT:

12 Your PORT is now ready to receive charge. Attach the matching CLIP to the OptiMate battery charger's output cord and connect to the port.

