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Introduction

The MP Charge Controller Bracket (MP-CCB) is designed to allow the most commonly used charge controllers in the market to be mounted and wired to a Magnum enclosure. This bracket can be easily mounted on the left side, or flipped over and mounted on the right side of the Magnum MMP (Mini Magnum Panel) or MP (Magnum Panel) enclosure. It is designed to work with specific MidNite, Morningstar, or OutBack charge controllers.

The bracket comes with two #8-32 x 3/8" (T15 flat head) Torx screws that are used to secure the bracket to the MMP or MP enclosure; also included are two #8-32 x 1/2" (Phillips pan head) black oxide screws for mounting the charge controller to the bracket. Refer to page 2 for information on determining which holes on the enclosure and bracket are used to mount your charge controller.

After the controller has been mounted on the bracket, secure it using a 1" close nipple with locknuts to the MMP or MP enclosure through a knockout on the side of the controller, and an adjacent 1" knockout on the MMP or MP enclosure.



Info: It may take three locknuts on the 1" close nipple to secure the controller to the enclosure. One locknut may need to be used in between the MMP or MP enclosure side and the charge controller side to act as a spacer.



Info: A standard 1" plastic bushing should be used on the nipple ends to protect the wire insulation as it enters/exits the nipple.

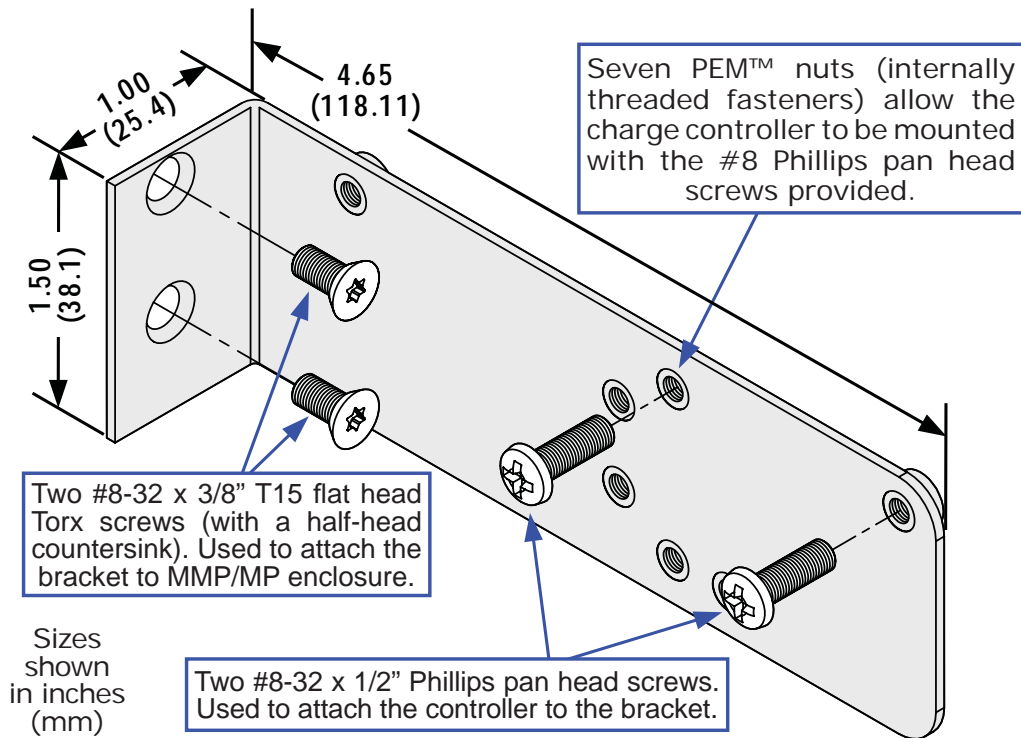


Figure 1, MP-CCB Physical Dimensions

MP-CCB Instruction Sheet

Use Table 1 along with Figures 2 and 3 to determine which bracket holes (A-G) are used when mounted on the left side, or when the bracket is flipped over and mounted on the right side, and which MMP/MP enclosure hole-pair (upper or lower) are used to install your charge controller.

Table 1, Mounting Holes Used for Charge Controllers

| Charge Controller | Holes to use: (Bracket) / [Enclosure] | |
|------------------------------|---------------------------------------|-----------------------|
| | Left Side | Right Side |
| Classic w/o Turbo (MN) | (B) / [upper] | (F) / [upper] |
| Classic w/Turbo (MN) | (A) / [upper] | (F) / [upper] |
| FlexMax 80 (OB) ¹ | NA | (G) and (E) / [upper] |
| Tristar (MS) | (D) / [lower] | (C) / [lower] |

(MN) = MidNite, (OB) = OutBack, (MS) = MorningStar

Note 1 - The FlexMax 80 is taller than most controllers and may not fit if something is mounted over it. If an MPX extension is installed on an MP enclosure, mount the MPX extension on the left side to allow the FlexMax 80 controller to be mounted on the right hand side.

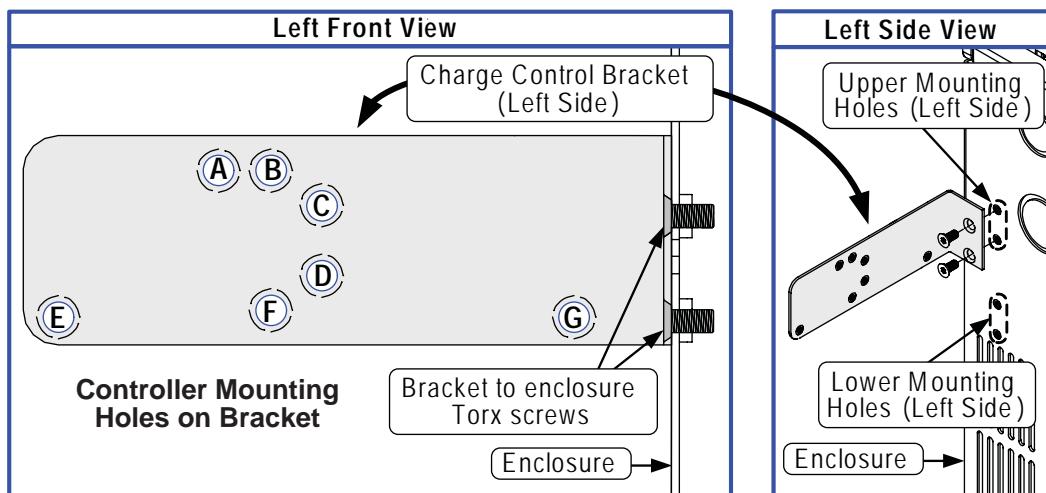


Figure 2, Holes Used to Mount Bracket on Left side of Enclosure

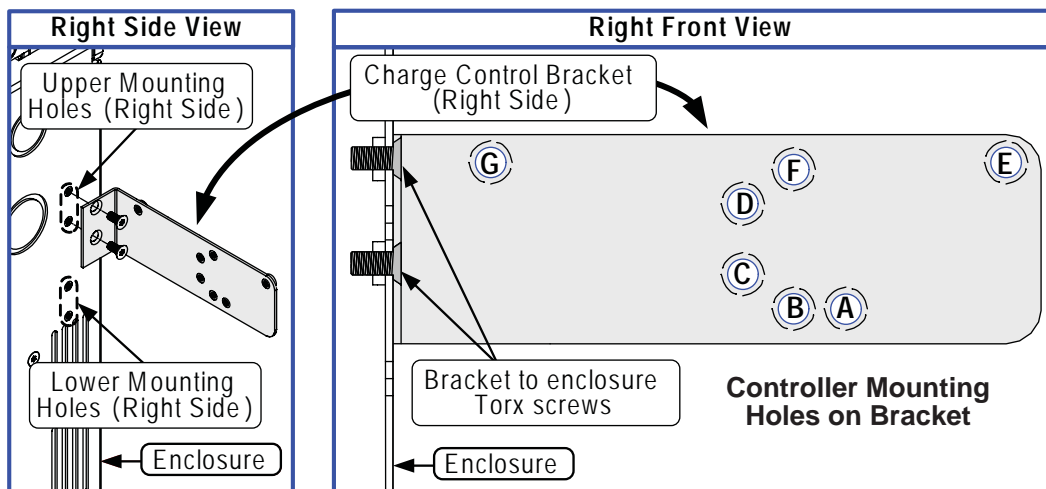


Figure 3, Holes Used to Mount Bracket on Right Side of Enclosure