



Charging Handle For EMG PDW M2 GBBR (Airsoft)



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updated 25. 2. 2024 | published 25. 2. 2024

Summary

Goal: To replace the broken charging handle on my EMG PDW M2 Gas Blowback Airsoft.

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[charginghandle](#) [emg](#)

Notes:

A direct drop-in compliant-mechanism version of the charging handle (WE-Tech PDW GBBR parts #34-37). The handle stays put when running around, and returns home when released after racking the bolt back.

Design Differences From Original EMG Part:

- Removed the need for parts #34, #35, #36 in favor of a compliant mechanism.
- Thickened design rather than the original shelled shaft.
- PLA+ plastic part that replaces original pot-metal steel part.

P.S.

My original charging handle on my PDW M2 airsoft lasted only half way through my first game day with it. The tip broke off after pulling the charging handle too hard. I believe the design of the original charging

handle to be mediocre if only because of their choice of material being too brittle. This PLA+ charging handle differs only slightly in design, mainly in that the channel beneath the handle is only 2mm high, offering more thickness near the point of contact between the bolt and the charging handle bolt catch.

Printer Settings:

- Printer: Ender 5 S1
- Filament: Sunlu PLA+ Black
- Supports: Tree Supports
- Print Orientation: Horizontal
- Infill: 100%
- Layer Height: 0.2mm

Model files



charging-handle.3mf

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