INSTALLATION GUIDE

SUNRISE MEDICAL CARES ABOUT YOUR SAFETY.
Please read your owner's manual for safe operating instructions and maintenance guidelines.

BEFORE YOU BEGIN

A Sunrise Medical authorized dealer needs to install the M90 bracket on your wheelchair. This bracket connects the M90 to your chair and lets you use both M90 and regular manual wheels. Refer to the bracket's packaging for detailed instructions or visit: www.SunriseMedical.com

NOTE Each wheelchair must be matched with its specific M90 bracket model.

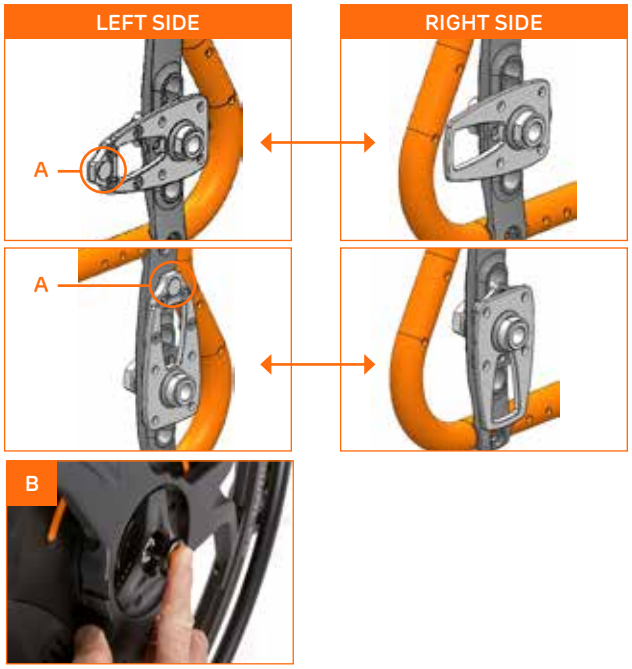
The following instructions outline universal requirements that apply to all brackets and wheelchair types. Regardless of the chair model, these steps must be followed in the order listed.

MOUNTING BRACKET INSTALLATION

Each bracket is specific to the wheelchair make/model and must match the chair. The bracket kit includes chair specific installation instructions.

1. The bracket with the magnet (A) will be installed on the **LEFT SIDE** of the wheelchair.
2. Orient the magnetic bracket so the magnet faces either toward the front of the chair or straight upward, as instructed in the chair-specific installation instructions.
3. Install the **RIGHT SIDE bracket in the opposite orientation of the LEFT SIDE** bracket.
4. Torque all mounting hardware to the specifications provided in the bracket installation instructions.
5. Insert the quick release (QR) axles into the center hub of each M90 wheel. (B)
6. Install the M90 wheels onto the chair to confirm proper fit. If the QR axle does not fully lock (ball bearing does not extend completely), adjust axle length using a 19 mm and 11 mm spanner.
7. Check wheel locks and adjust if necessary. Wheel locks may require adjustment if the wheel width or diameter changes when installing the M90.

IMPORTANT Wheel lock adjustment must be completed by a Sunrise Medical authorized dealer to ensure compliance with medical safety standards.



CALIBRATION

M90 wheels should be calibrated before first use. Calibration is needed during initial setup or when switching to a different chair. Calibration sets slope and hill thresholds for optimal performance.

IMPORTANT Ensure the mounting brackets and wheels are properly installed, the wheelchairs wheel locks are engaged, and the wheelchair is on level ground before starting the calibration process.

CALIBRATION INSTRUCTIONS

IMPORTANT: Do not move the chair during calibration.

1. Rotate the engagement hub at the centre of each M90 wheel towards the locked position.
2. Manually rotate each wheel until the Hubs lock into position on the Frame.
3. Put on the wheelchair wheellocks, on both wheels.
4. Remove the battery on the M90 wheel.
5. Press and hold either button on the wheel while re-inserting the battery.
6. When the lights turn **ORANGE** release the button.
7. Wait until the lights turn **WHITE** then **GREEN**.
8. When the lights are **GREEN**, remove and re-insert the battery.
9. The wheel will beep.
10. Repeat steps 4 – 9 on the other wheel.
11. Remove and swap wheels to the opposite sides and repeat steps 1 – 10.

NOTE Re-calibrating the wheels is the first step for any troubleshooting with the M90.

DEVICE SET UP USING THE M90 APP

1. Download the Empulse M90 app from your device's app store. (C)
2. Open the app and follow the on-screen instructions to connect it to your M90.
3. Select **RIDER WEIGHT** Category when prompted. Rider Weight can also be adjusted later in the app's Settings menu.
4. On the app **HOME SCREEN**, select the preferred **DRIVE PROFILE** between, Base, Standard and Max. Each **DRIVE MODE** in indoor and outdoor can be set up with the below profiles: (D)

   BASE: Provides the least reactive settings, perfect for individuals new to power assist or those preferring a more relaxed and controlled ride.

   STANDARD: A balanced profile that combines speed and responsiveness. Recommended as the starting point for most users.

   MAX: Offers the most sensitive and responsive performance, ideal for experienced riders seeking an active and dynamic power assist experience.
5. App **SETTINGS** provide access to key adjustments, including rider weight category, drive mode restrictions, default drive mode, and a summary of current drive profiles.

   Available Restrictions

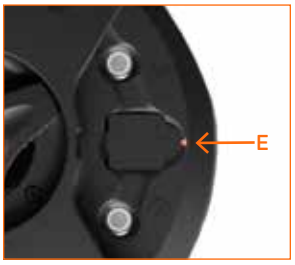
   - o Disable all-way toggle drive mode
   - o Disable speed controller with handrim steering drive mode
   - o Disable outdoor drive mode

C

D

CHARGING THE M90

1. The charging port for each M90 wheel is located between the wheel LED's. To access the charging port lift the silicon cover by pulling the tab. (E)
2. Ensure the M90 charger is plugged into an outlet and power is being provided.
3. When plugging the charger connector into the M90 wheel ensure the lightning bolt symbol is aligned with the orange triangle indicator on the M90 wheel. The magnetic force will assist in correct alignment.
4. Charging is indicated by the M90 wheel LEDs FLASHING PURPLE (F). Leave batteries to charge until both wheels display two SOLID PURPLE LEDs, indicating full charge.
5. When charging is complete, remove the charger and press silicone cover completely back in place.



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SCAN HERE TO VISIT THE EMPULSE M90 WEBPAGE TO WATCH VIDEO GUIDES.

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