

# QUANTUM POWERCHAIR ANNUAL PREVENTATIVE MAINTENANCE / SERVICE CHECKLIST



**QUANTUM®**

The Rehab Power Chair Solutions Company

|                          |                             |                   |
|--------------------------|-----------------------------|-------------------|
| <b>Customer Name:</b>    | <b>Asset Number:</b>        | AML -QUANTUM-APMC |
| <b>Wheelchair Model:</b> | <b>Chair Serial Number:</b> |                   |
| <b>Technician Name:</b>  | <b>Date:</b>                |                   |

Please read the Annual Preventative Maintenance (AML-QUANTUM-APMC) before starting the checks. This checklist is to be used with all Quantum Power wheelchairs with any features and powered functions. Skip or cross elements that do not apply.

| Category                  | Components   | Checks   | Remedy                                      | Checked                      | Notes / Action Required |  |
|---------------------------|--|--|---|------------------------------|-------------------------|--|
| <b>Base Components</b>    | Wheels   | Check for tightness  | Tighten to 18.4lb/ft                        |                              |                         |  |
|                           | Rims   | Inspect for damage or bends  | Replace if damaged                          |                              |                         |  |
|                           | Tyres  | Check for flat spots; ensure proper inflation and inspect for wear                           | Replace if damaged or worn                  |                              |                         |  |
|                           | Anti-Tips (if fitted)                                | Check for damage and ensure anti-tips do not rub the ground                                  | Replace if damaged                          |                              |                         |  |
|                           | Castor Forks   | Check pintle bearing and Castor Fork for flutter   | Clean, adjust or replace                    |                              |                         |  |
|                           | Castors  | Inspect for wear and damage and check castor bearings  | Clean, replace if damaged or worn           |                              |                         |  |
|                           | Suspension   | Check for any abnormalities or structural damage; inspect for leaks and bent rods            | Replace if damaged                          |                              |                         |  |
|                           | Motors   |  | Inspect the overall condition of the motors | Replace or repair if damaged |                         |  |
|                           |  |  | Remove and inspect motor brushes            | Replace as necessary         |                         |  |
|                           | Fenders and Lighting (if fitted)                     | Check the condition of fenders and ensure all lights are operational                         | Replace or repair if damaged                |                              |                         |  |
|                           | Batteries  | Check for secure contacts and clean terminals; verify voltage                                | Replace if faulty or out of spec (>12.6V)   |                              |                         |  |
|                           | Shrouds  | Ensure all shrouds are securely fastened and not damaged or cracked                          | Tighten, repair or replace                  |                              |                         |  |
| Transit Tie Down Loops    | Check that all transit loops are securely fastened   | Tighten  |   |                              |                         |  |
| <b>Seating Components</b> | Interface/Mounting Hardware                          | Verify all mounting hardware is securely fastened  | Tighten to 25 lb/ft                         |                              |                         |  |
|                           | Tilt/REAC/Lift-Tilt                                  | Run through the full range of motion and check for smooth operation                          | Repair as necessary                         |                              |                         |  |
|                           |  | Verify that drive lockouts are functioning correctly   | Repair or adjust necessary                  |                              |                         |  |
|                           | Width Adjustment Brackets, Side Rails and Seat pan   | Ensure Width brackets, Side rails and Seat pan are securely fastened                         | Tighten                                     |                              |                         |  |
| Pelvic Belt               | Check condition of pelvic belt and locking mechanism | Replace if damaged or worn   |   |                              |                         |  |
| <b>Legrests</b>           | Legrests/Footplates                                  | Ensure Legrests are securely fastened to the seating system (check hangers and centre mount) | Tighten                                     |                              |                         |  |
|                           |  | Check welded seams, interlocking parts, screws, and footplates for integrity                 | Replace if damaged                          |                              |                         |  |

|  |                               |   |   |              |  |
|--|-------------------------------|---|---|--------------|--|
|  | Powered Leg rests (if fitted) | Run through the full range of movement; check cables, contacts, functions, and footplates   | Repair or replace as necessary                      |              |  |
| <b>Armrests and Back Components</b>  | Armrests                      | Ensure receivers are securely fastened and functioning  | Tighten or replace if faulty                        |              |  |
|  |                               | Check the condition of arm pads   | Replace if damaged or worn                          |              |  |
|  | Back canes (if fitted)        | Verify that back canes are securely fastened  | Tighten   |              |  |
|  |                               | Check the condition of push grips   | Replace if damaged or worn                          |              |  |
|  | Power Recline (if fitted)     | Ensure it is securely mounted to the seating system   | Tighten   |              |  |
|  |                               | Run through the full range of motion  | Repair as necessary                                 |              |  |
| Check that shrouds are in place and that harnesses are routed correctly and free of damage |                               | Adjust or replace   |   |              |  |
| <b>Backrest, Headrest, and Laterals</b>  | Overall Condition             | Check for any damage and ensure secure fastening to back canes or power recline   | Adjust, tighten or replace as necessary             |              |  |
| <b>Electronics</b>   | Hand Controller and Joystick  | Check for corrosion and ensure it is securely fastened  | Tighten or replace                                  |              |  |
|  |                               | Check that Joystick returns to centre   | Repair or replace as necessary                      |              |  |
|  |                               | Inspect charge socket, ensure charge plug orientation socket is present.  | Repair or replace as necessary                      |              |  |
|  |                               | Verify the function; check rubber boot, On/Off wheel, buttons, screen, and inspect for frayed wires   | Repair or replace as necessary                      |              |  |
|  | Charger                       | Check that the charger is in working condition and that the cables are not damaged  | Replace if damaged                                  |              |  |
| <b>Firmware</b>  | Updates and Logs              | Check battery charging regime, review error logs, and ensure the latest firmware is installed   | Update, action or replace accordingly               |              |  |
| <b>Test Run</b>  | Motors                        | Check powerchair tracking   | Perform calibration, adjust or replace as necessary |              |  |
|  |                               | Listen for any excess noise   | Replace if faulty                                   |              |  |
|  |                               | Verify brake function   | Repair or replace as necessary                      |              |  |
| <b>Clean</b>   | Entire powerchair             | Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of the power chair. Avoid using products that may scratch the surface of the power chair. | Clean   |              |  |
|  |                               | If necessary, clean the product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application                                    | Clean   |              |  |
| <b>Technician Name:</b>  |                               | <b>Signed:</b>  |   | <b>Date:</b> |  |