

Merits

P318/322 series *Service Manual*

Index

| | |
|---|----------|
| Index | 1 |
| 1. Introduction | 1 |
| 2. Service guide | 1 |
| 2.1. How to replace or repair the seat assembly..... | 1 |
| 2.1.1. To replace the seat body | 1 |
| 2.1.2. To replace the seat base plate assembly | 2 |
| 2.1.3. To replace the seat post..... | 2 |
| 2.1.4. To replace the left/right armrest..... | 3 |
| 2.2. How to replace or repair the body assembly..... | 4 |
| 2.2.1. To replace the main shroud..... | 4 |
| 2.2.2. To replace the battery pack | 5 |
| 2.2.3. To replace the footplate assembly | 5 |
| 2.2.4. To replace the anti-tipper wheel..... | 6 |
| 2.2.5. To replace the caster wheel assembly..... | 7 |
| 2.2.6. To replace the driver wheel assembly | 8 |
| 2.2.7. To replace the main frame | 9 |

The numbers shown in this service manual is just for reference. The part numbers should be in accordance with current exploded drawing.

1. Introduction

The purpose of this manual is to provide dealers and/or distributors with the product information and instructions that are required for servicing the P322 powerchair.

2. Service guide

The P322 powerchair consists of three main parts:

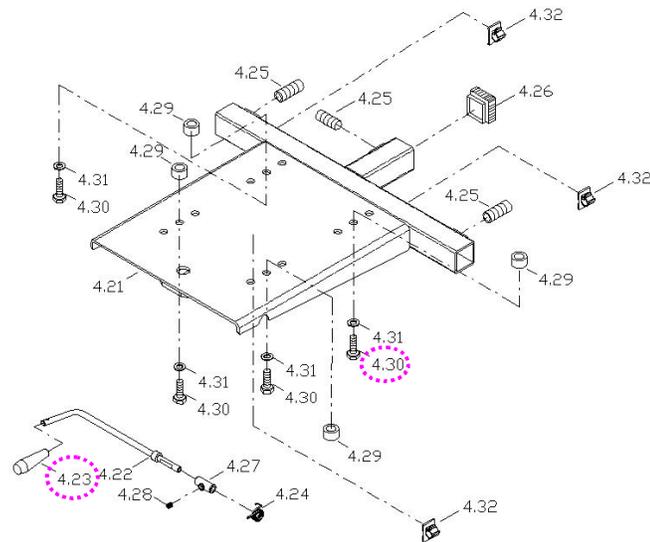
- Seat assembly
- Body assembly
- Electrical system (Please refer to P3 series Shark or VR2 service manual)

2.1. How to replace or repair the seat assembly

The seat assembly includes the seat body, the seat base plate, seat post and the left/right armrest.

2.1.1. To replace the seat body

- ◆ When should you replace the seat body?
 - ◇ If the seat body is worn out.
 - ◇ If the seat body is pierced or scratched by something.
 - ◇ If the powerchair crashed cause the seat body out of shape.
- ◆ How to replace the seat body?
 - ◇ Please proceeding steps as follows if it is broken.
 - a. Pull the swivel lever (4.23) under the seat up to unlock it and rotate the seat a little bit to the position where you can feel the seat rotate freely. Pull the seat upward.
 - b. Use hex tools to loosen four pieces hex fixed bolt (4.30) on seat base plate assembly and remove the seat body from the seat base plate assembly if it is broken.



2.1.2. To replace the seat base plate assembly

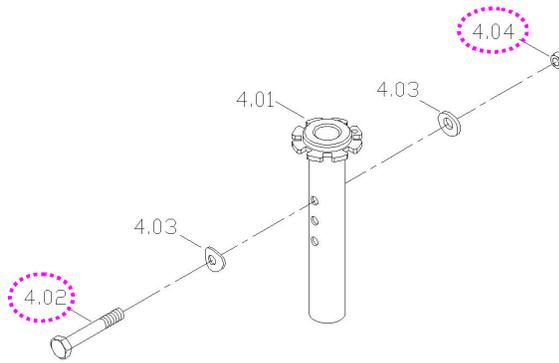
- ◆ When should you replace the seat base plate assembly?
 - ◇ If the seat base plate is deformation.
 - ◇ If the seat base plate out of shape due to an accident.
- ◆ How to replace the seat base plate assembly?
 - ◇ Please proceeding steps as follows if it has to replace.

Follow preceding step of 2.1.1. You can remove seat base plate assembly too if it is worn out or deformed.

2.1.3. To replace the seat post

- ◆ When should you replace the seat post?
 - ◇ If the seat post is deformation.
 - ◇ If the seat post out of shape due to an accident.
- ◆ How to replace the seat post?
 - ◇ Please proceeding steps as follows if it has to replace.

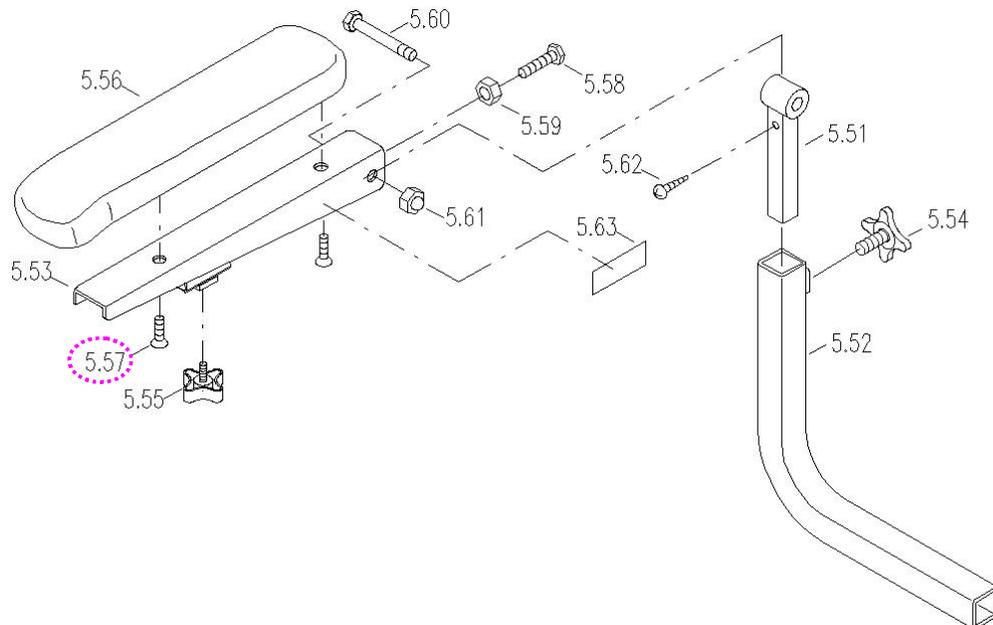
To replace the seat post use two wrenches to loosen the nut (4.04) and screw (4.02) if it is worn out or deformed.



2.1.4. To replace the left/right armrest

- ◆ When should you replace the armrest?
 - ◇ If the armrest is worn out.
 - ◇ If the armrest is pierced or scratched by something.
 - ◇ If the powerchair crashed cause the armrest out of shape.
- ◆ How to replace the armrest?
 - ◇ Please proceeding steps as follows if it has to replace.

Use hex tools to loosen bolt (5.57) under armrest to disassemble armrest from armrest support plate. If the armrest is broken, then replace it.

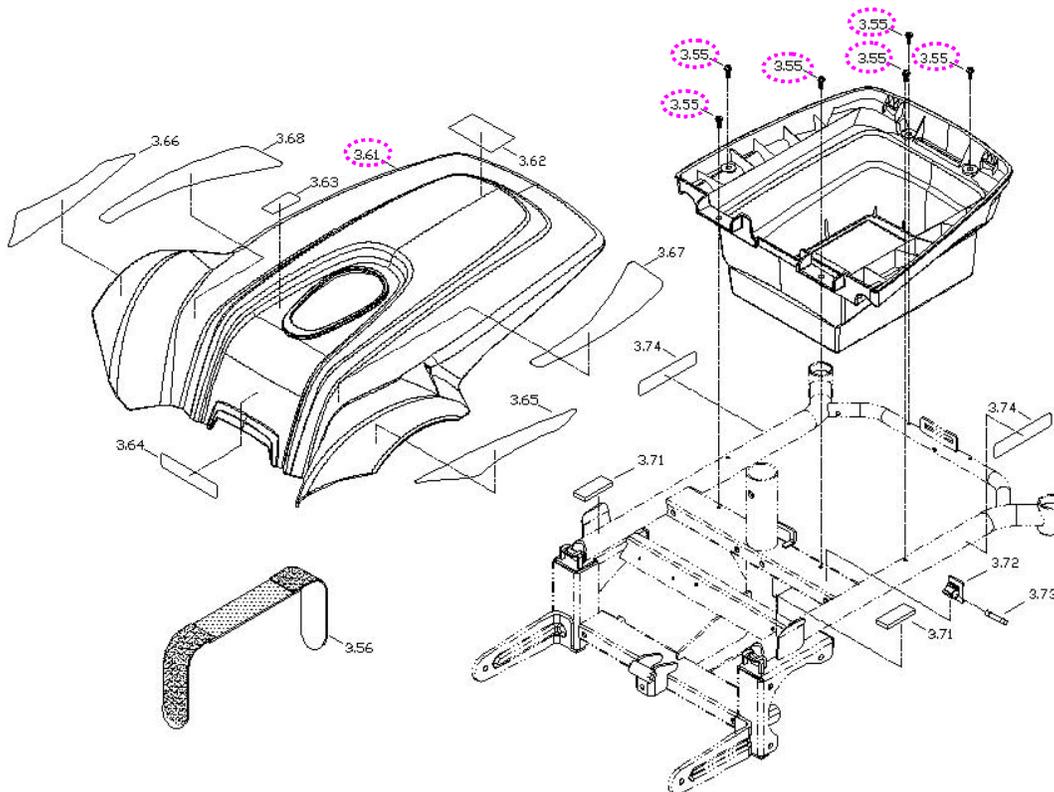


2.2. How to replace or repair the body assembly

The Body Assembly includes main shroud, battery pack, footplate assembly, anti- tipper wheel, caster wheel assembly, drive wheel assembly and the frame.

2.2.1. To replace the main shroud

- ◆ When should you replace the main shroud?
 - ◇ If your powerchair can not avoid knocked or bumped cause the shroud broken.
- ◆ How to replace the main shroud?
 - ◇ Check for deformations or cracks on the main shroud. Please proceeding steps as follows if it has to replace.
 - a. Separate the main shroud(3.61) from the frame by hand directly, if it broken.



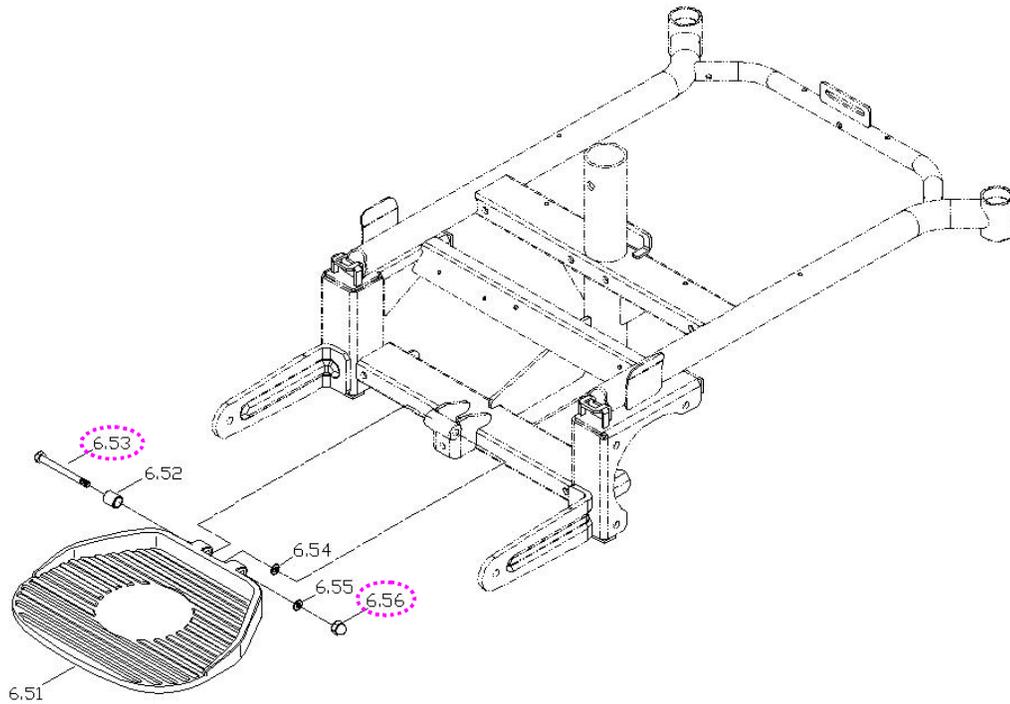
2.2.2. To replace the battery pack

- ◆ When should you replace the battery pack?
 - ◇ If your powerchair can not avoid knocked or bumped cause the battery pack broken.
- ◆ How to replace the battery pack?
 - ◇ Check for deformations or cracks on the battery pack. Please proceeding steps as follows if it has to replace.
 - a. Remove the main shroud first (See page 4).
 - b. Use screwdriver to loosen two screws (3.55) to replace the battery pack if it broken. (See page 4)

2.2.3. To replace the footplate assembly

- ◆ When should you replace the footplate assembly?
 - ◇ If the footplate is deformation.
 - ◇ If the footplate out of shape due to an accident.
- ◆ How to replace the footplate assembly?
 - ◇ Please proceeding steps as follows if it has to replace.

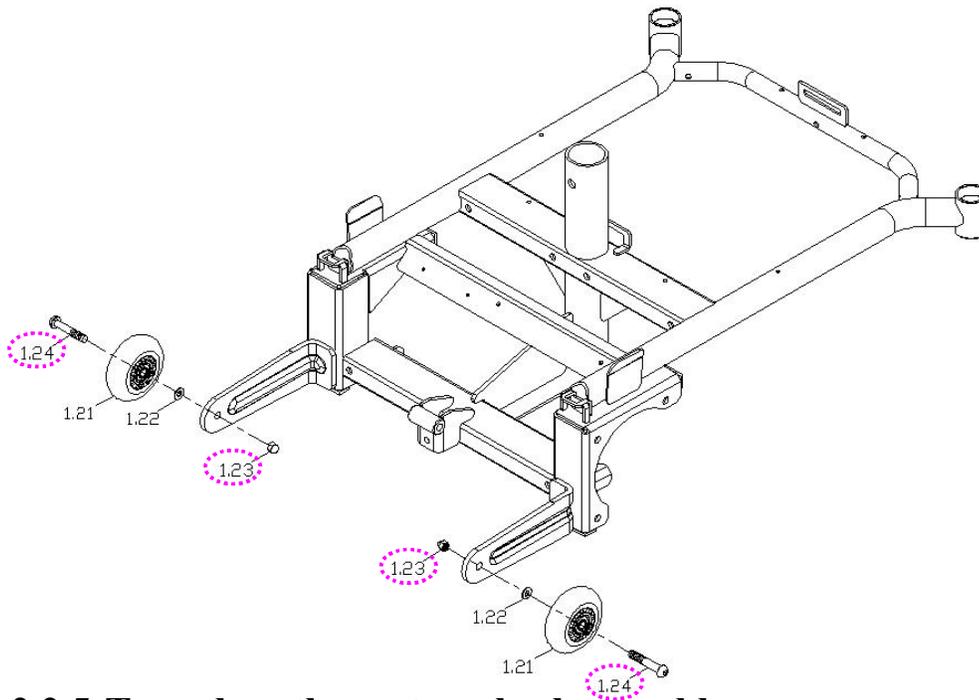
Hole the screw (6.53) and loosen the nut (6.56) then remove the footplate. If the footplate is worn out, then replace it. (See next page)



2.2.4. To replace the anti-tipper wheel

- ◆ When should you replace the anti-tipper wheel?
 - ◇ If the anti-tipper wheel is worn out.
 - ◇ If the screw (1.24) of anti-tipper wheel out of shape due to an accident.
 - ◇ If your powerchair can not avoid knocked or bumped cause the anti-tipper wheel broken.
- ◆ How to replace the anti-tipper wheel?
 - ◇ Please proceeding steps as follows if it has to replace.

Replace the anti-tipper wheel if it is worn out or deformed. Hold the screw (1.24) and loosen the nut (1.23) and then replace the anti- tipper wheel. (See next page)



2.2.5. To replace the caster wheel assembly

- ◆ When should you replace the caster wheel assembly?
 - ◇ If the caster wheel assembly is worn out.
 - ◇ If the stud (2.02) of caster wheel assembly is broken.
 - ◇ If the caster wheel assembly is out of shape due to an accident.
- ◆ How to replace the caster wheel assembly?
 - ◇ Please proceeding steps as follows if it has to replace.

The caster wheel assembly is composed of a caster wheel and fork.

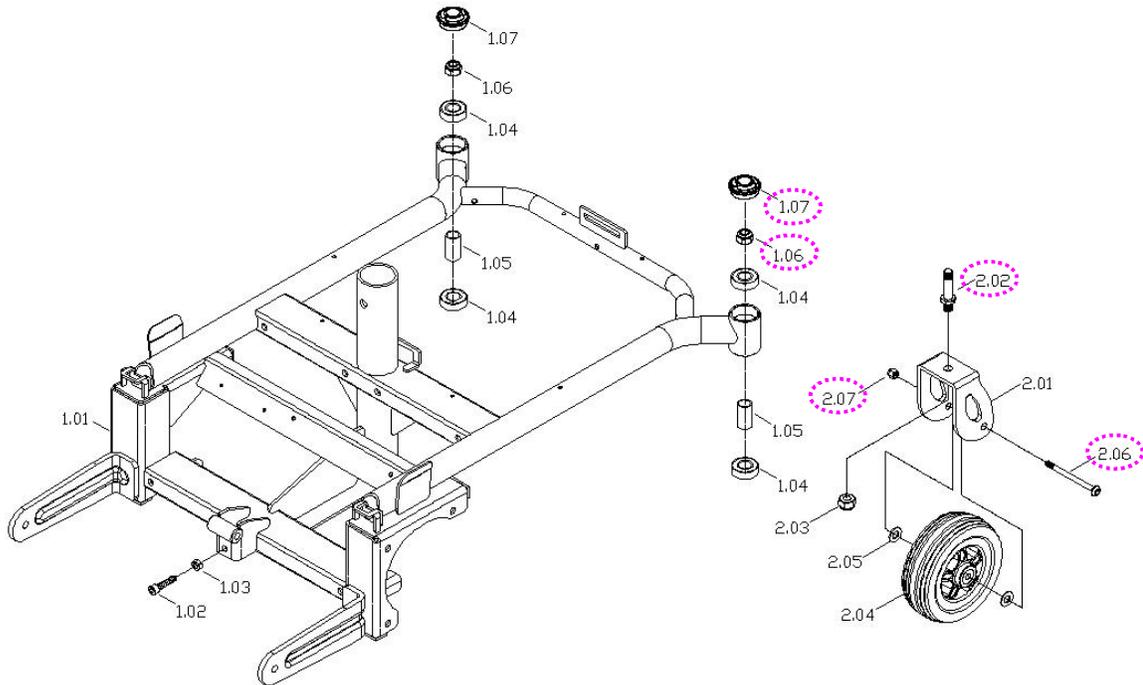
Replace the caster wheel assembly by the following steps if, after inspection, the assembly is found to be deformed.

- a. Remove the seat assembly.
- b. Remove the cap(1.07). (See next page)
- c. Fix the caster wheel in place. Hold the stub (2.02) and loosen the nut (1.06) and then remove the caster wheel assembly. (See next page)

Replace the caster wheel by the following steps if it is worn out or deformed.

a. Hold the screw (2.06) and loosen the nut (2.07) and then remove the caster wheel.

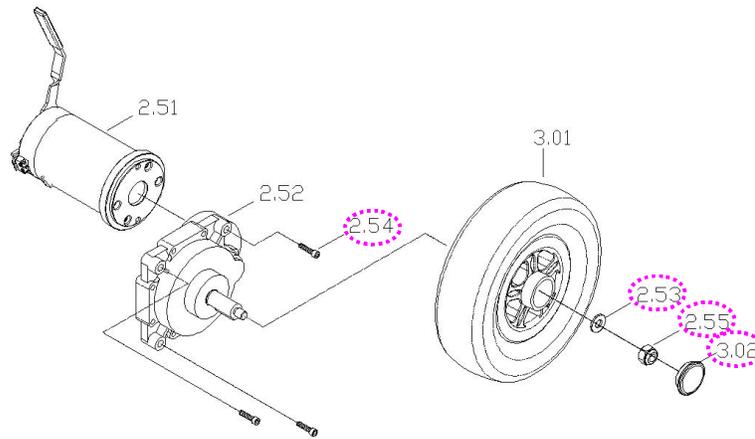
b. If the PU tire is worn out, then replace it.



2.2.6. To replace the driver wheel assembly

- ◆ When should you replace the driver wheel assembly?
 - ◇ If the driver wheel assembly is worn out.
 - ◇ If the driver wheel assembly is deformed due to an accident.
- ◆ How to replace the driver wheel assembly?
 - ◇ Please proceeding steps as follows if it has to replace.

Remove the cap(3.02) and use socket wrench to loosen the nut (2.55) and washer (2.53) to replace the driver wheel assembly if it is worn out or deformed.



2.2.7. To replace the main frame

- ◆ When should you replace the frame?
 - ◇ If the main frame is deformation.
 - ◇ If your powerchair can not avoid knocked or bumped cause the frame deform.
 - ◇ If the main frame is deformed due to an accident.
- ◆ How to replace the main frame?
 - ◇ Please proceeding steps as follows if it has to replace.

Check the whole body assembly by the following steps if there is noise or sticking motion during operation of the powerchair.

- a. Remove the seat assembly, the main shroud, the fender, the battery pack, the footplate assembly, the anti-tipper arm assembly, the caster wheel assembly and drive wheel assembly by step 2.1, 2.2.1 until 2.2.6 previously.
- b. Use hex tools to loosen three pieces the screw (2.54) to remove motor and gearbox assembly. (See page 9)
- c. Loosen the screw (1.09) to remove controller. (See next page)
- d. Check for deformations or cracks on the frame and replace the main frame should they exist.

