

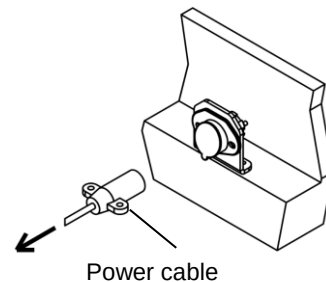
MOTOR REPLACEMENT PROCEDURE

WARNING

ELECTRICAL HAZARD



- Disconnect the power cable from the trailer before performing the procedure.
- In the case of a straight truck, disconnect the engine power cable from the negative terminal of the battery.
- Ensure there is no more power supply before starting the electrical procedure.



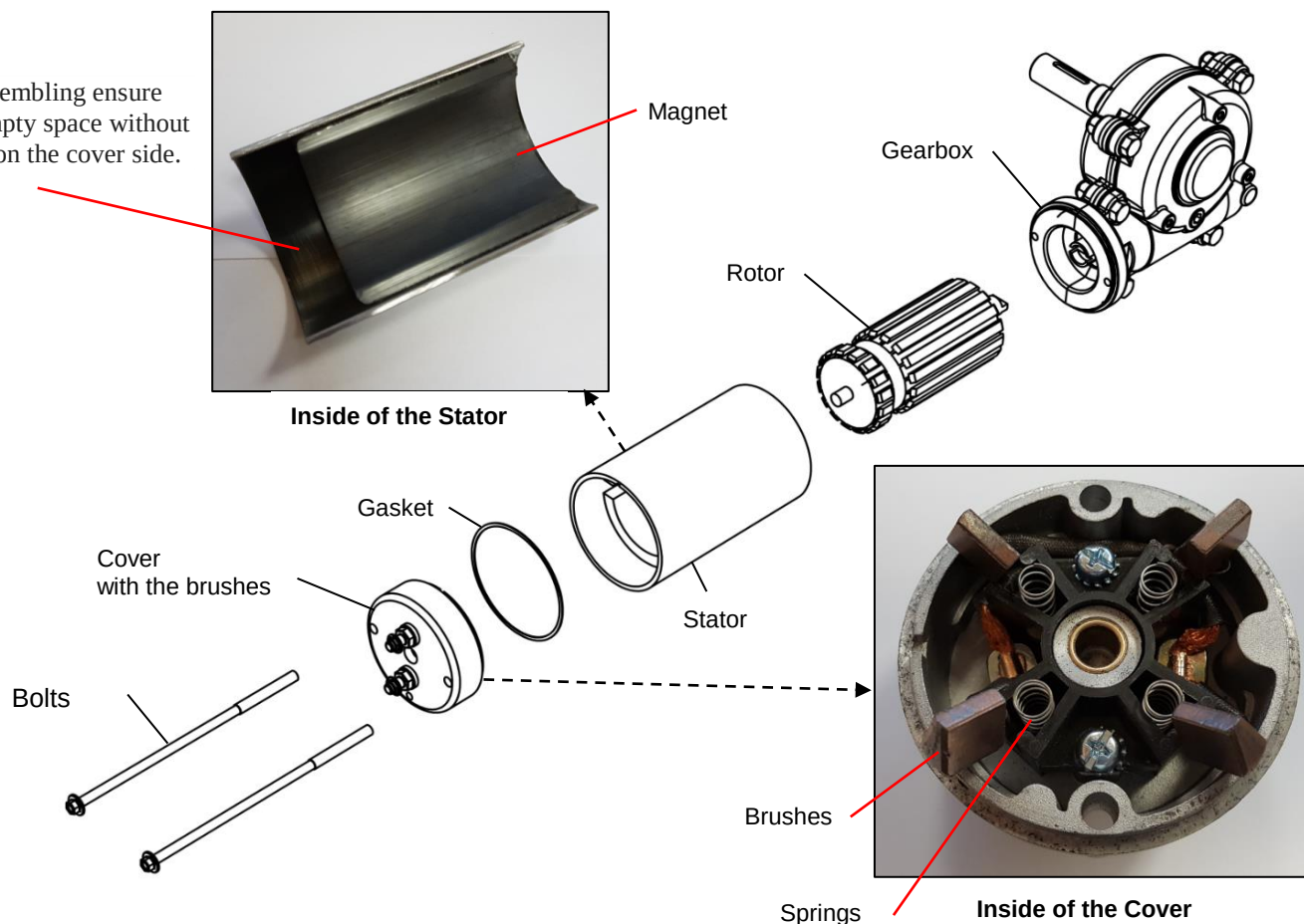
NOTICE

- During use or replacement, never strike/impact the motor stator.
- Handle the motor with care. Any impacts risk damaging it.

Motor components (exploded view)

NOTE

During assembling ensure that the empty space without magnet is on the cover side.



Step 1. Remove the defective motor

1. Find the motor location on the trailer. The motor location may vary depending on the type of mechanism.
2. **Figure 1.** If applicable, remove the protective cover from the motor.
3. **Figure 2.** Disconnect the two cables from the motor terminal.

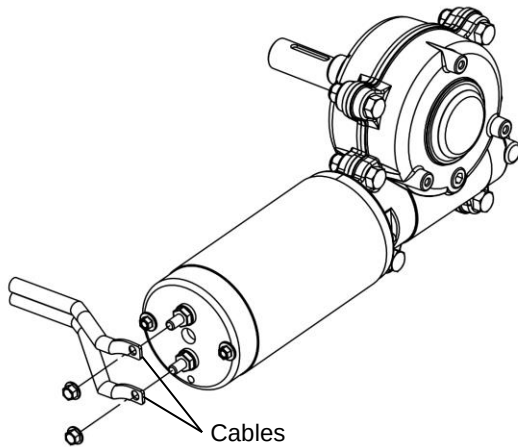


Figure 2

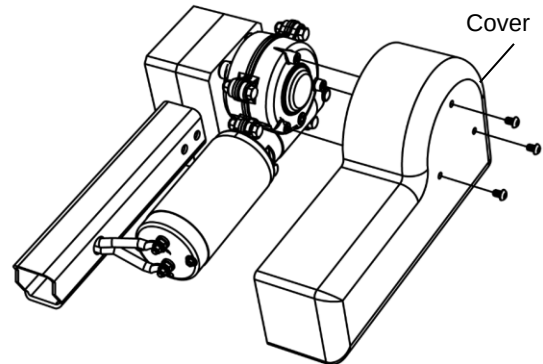


Figure 1

4. **Figure 3.** Remove the two bolts securing the motor.
5. Separate the motor from the gearbox.

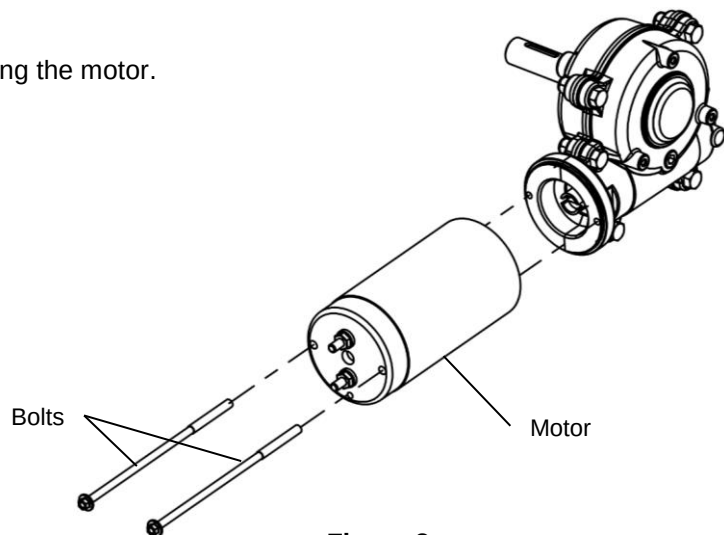


Figure 3

6. **Figure 4.** If the motor is less two years old, install a transport plate and return the motor to **E-Cargo** for examination.

Address:

6015 Raoul-Lassonde
Saint-Hyacinthe, QC, Canada
J2R 1E4

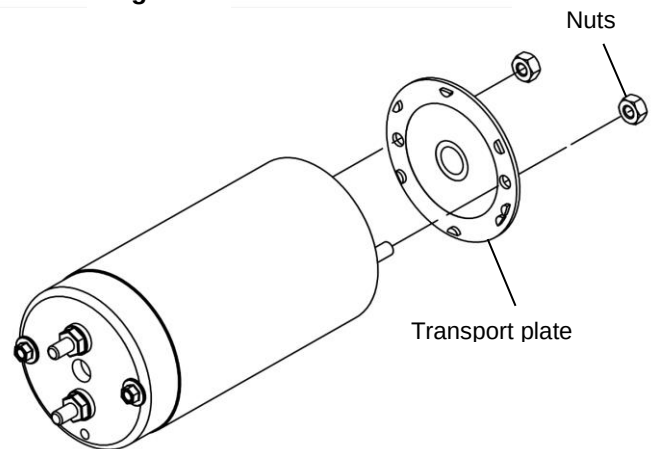


Figure 4

7. A **YES** or **NO** decision will be made whether a warranty credit must be returned to you.

Step 2. Install the new motor

NOTICE

- Never remove the transport plate if the metal clips are not installed on the cover.
- If the bolts are difficult to turn, this means there is a problem. A brush or a spring may be poorly positioned.
- Make sure that the notches of the motor and the gearbox are aligned during assembly.
- Ensure that the gasket is well supported on the cover with the brushes during assembly.

1. **Figure 5.** Take the new motor and loosen the bolts and the nuts.
2. Gently remove the transport plate.
(*If the defective motor must be returned to **E-Cargo**, recover the transport plate for shipping.*)
3. Gently remove the cover with the brushes.

NOTE

- If a metal clip moves by error and a brush falls.
- Replace it, ensuring the springs are well positioned under the brushes.

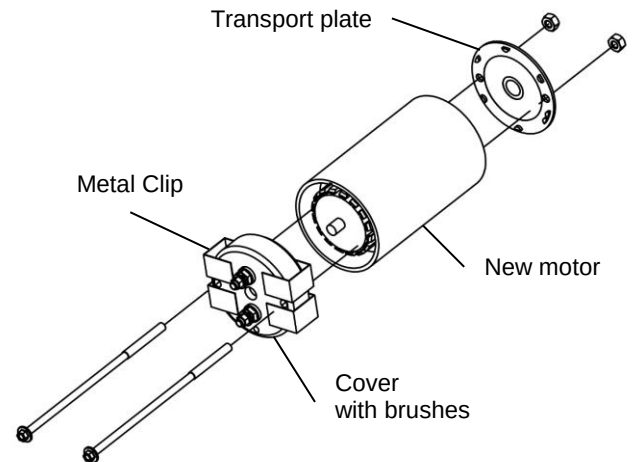
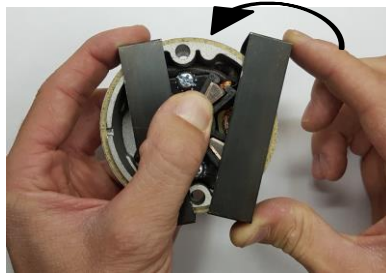


Figure 5

4. **Figure 6.** Apply sealant to the gearbox contour and in the threaded holes.
5. **Figure 7.** Apply a sealant to the contour of the housing with the brushes.

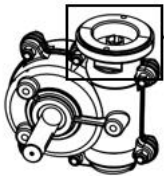


Figure 6

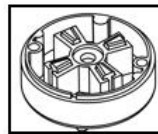


Figure 7

6. **Figure 8.** Install the stator with the gearbox and ensure the notches are well aligned.
7. **Figure 9.** Install the cover with the brushes and ensure the notches are well aligned.

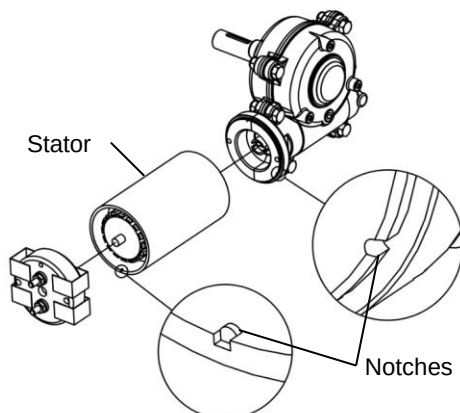


Figure 8

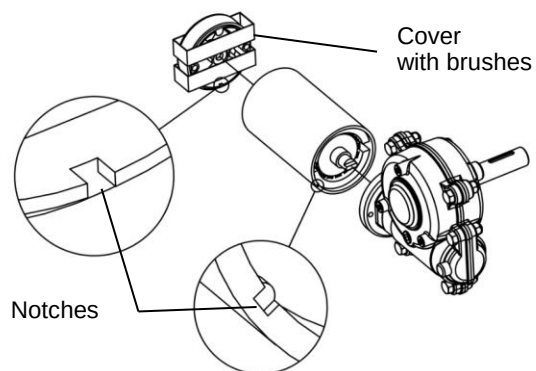


Figure 9

8. **Figure 10.** Engage the bolts and lightly screw them into the gearbox.

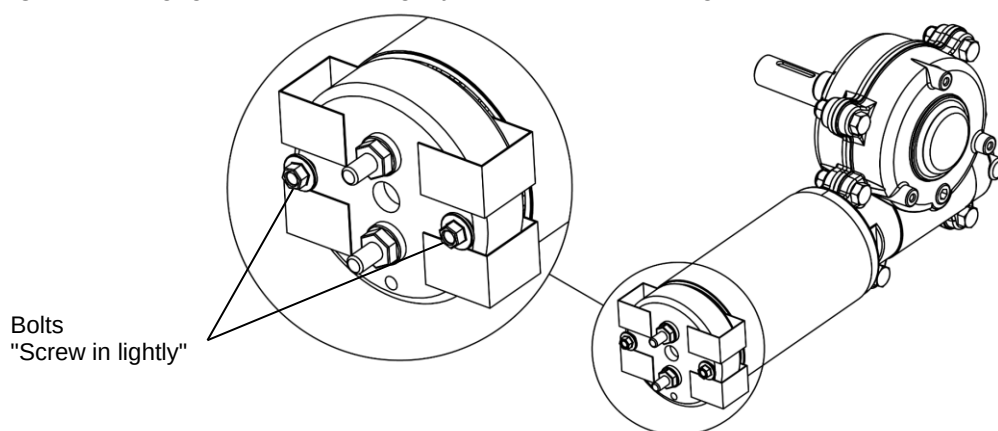


Figure 10

9. **Figure 11.** Gently remove the two metal clips and push on the cover so it is positioned adequately.
10. Tighten permanently.

NOTICE

- If the bolts are difficult to turn, this means there is a problem.
- A brush or a spring may be poorly positioned.
- Remove the cover and ensure that all the components are well positioned.

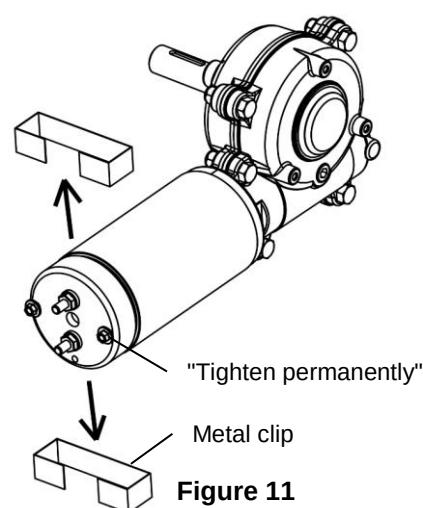


Figure 11

11. **Figure 12.** Reconnect the two cables to the motor terminals.
12. **Figure 13.** If applicable, reinstall the protective cover on the motor.

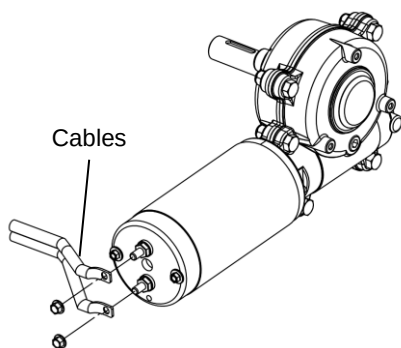


Figure 12

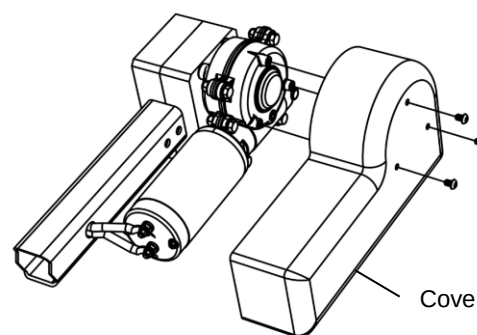


Figure 13

13. Reconnect the power supply, activate the switch and check if the motor is working properly.

Troubleshooting

If the motor does not turn over when the switch is activated, check:

- If the power supply was properly reconnected.
- That the electric current reaches the motor.
- If the brushes in the cover are well positioned.
- That the gearbox turns freely when the motor is removed. (Manual activation)