KWIKEE® REVOLUTION SERIES STEP MOTOR REPLACEMENT INSTRUCTIONS (82-ST0502)

STEPS

Purpose

This document describes the removal and replacement of the Kwikee® Revolution Series step motor.

NOTE: This information was obtained from Kwikee manual #82-ST0502 Rev 0B dated July 2013.

Required Resources

- Standard automotive style jack or jack stand
- 5/16" hex driver
- 5/16" torque wrench
- 5/16" socket with ratchet

Replacement Kit #380073	
Part #	Description
369340	Motor for TT Revolution
369091	Hex Bolt, 5/16" X 2"
360212	Spacer, plastic

Instructions

⚠WARNING

Steps MUST be supported with the proper automotive style jack or jack stand that is in good working order. If the step is not supported when the motor is removed, the step will open. Failure to properly support the steps may result in death, serious personal injury or severe product damage.

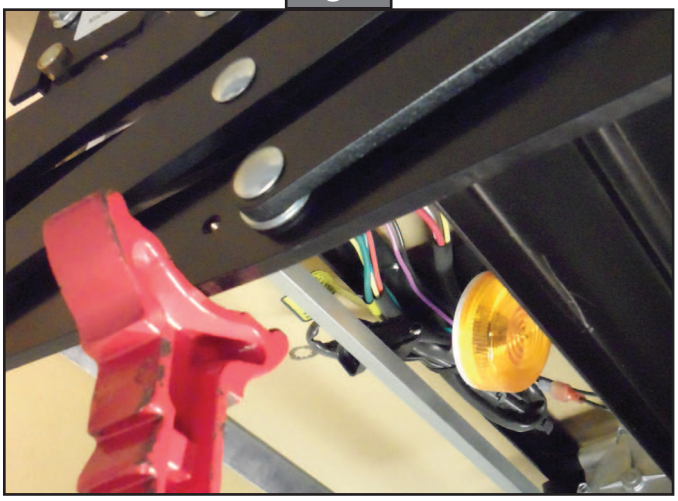
Read and understand all of the following instructions before beginning this procedure.

NOTE: This procedure must be completed with the steps either in the full retracted position or completely removed from the coach.

1. Using a standard automotive type jack or jack stand, brace the steps in the completely retracted position (Fig. 1). This will prevent the steps from opening when the motor is removed from the step.
2. Position the standard automotive type jack or jack stand to the rear of the steps. Leave some space between the step frame and the jack or jack stand to allow for later adjustment when installing the motor (Fig. 2).

Fig. 1

Fig. 2



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⚠ CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Removing the Motor

The motor is attached to the step frame using three 5/16" hex bolts. On the bottom side of the motor, each bolt goes through a plastic motor spacer (Fig. 3). These spacers are not attached to the motor and will fall out when the bolt and/or the motor is removed.

1. Disconnect the 2-wire power motor harness from the motor plug. It may be necessary to use a 5/16" socket with ratchet to loosen the hex bolts used for mounting the motor.
2. Completely remove the three hex bolts (Fig. 4).

Fig. 3

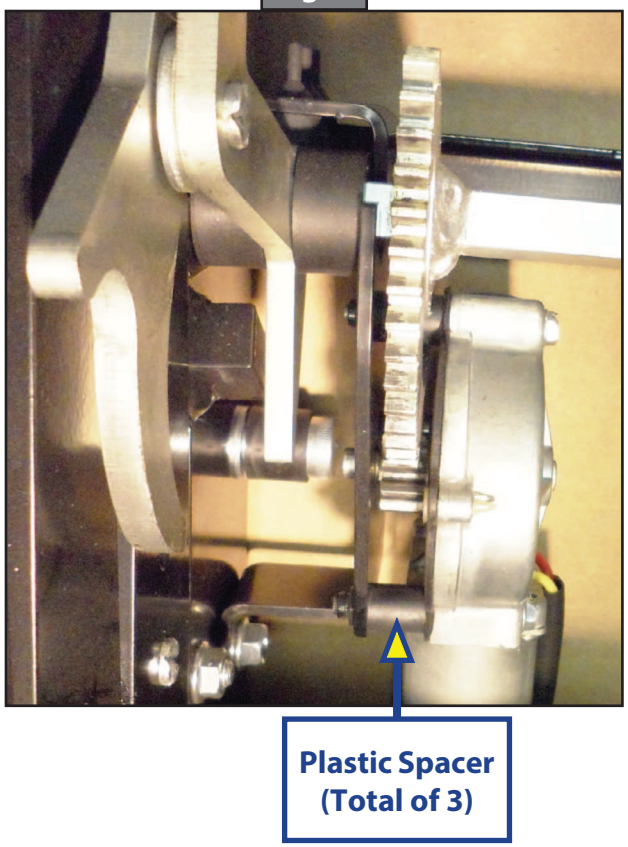
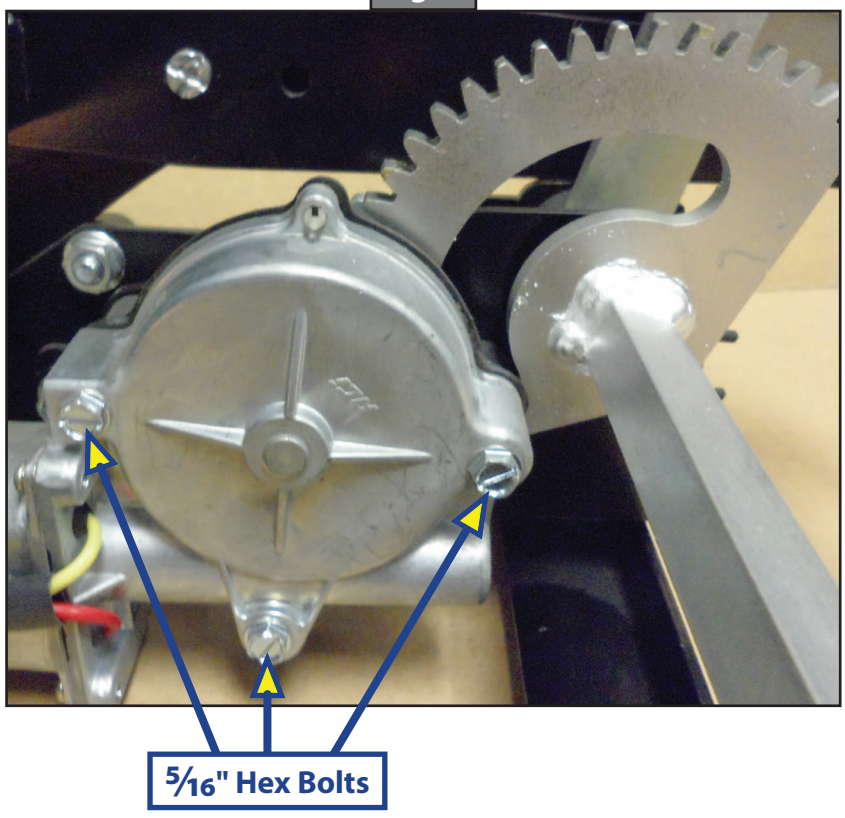


Fig. 4



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Installing the New Motor

1. Insert three 5/16" hex bolts (Part #369091 of Kit #380073) into the motor mounting holes.
2. Place one plastic spacer (Part #360212 of Kit #380073) on each hex bolt on the backside of the motor. Each spacer has a groove on one side that must be aligned with the bolt hole (Fig. 5).

NOTE: While installing the motor, make sure to keep the three hex bolts from falling out of the mounting holes and the three plastic spacers from slipping off the end of each bolt.

3. The motor pin (Fig. 6) must be fitted into the motor mounting bracket. The step frame may need to be adjusted to ensure the proper fit of the motor.

Fig. 5

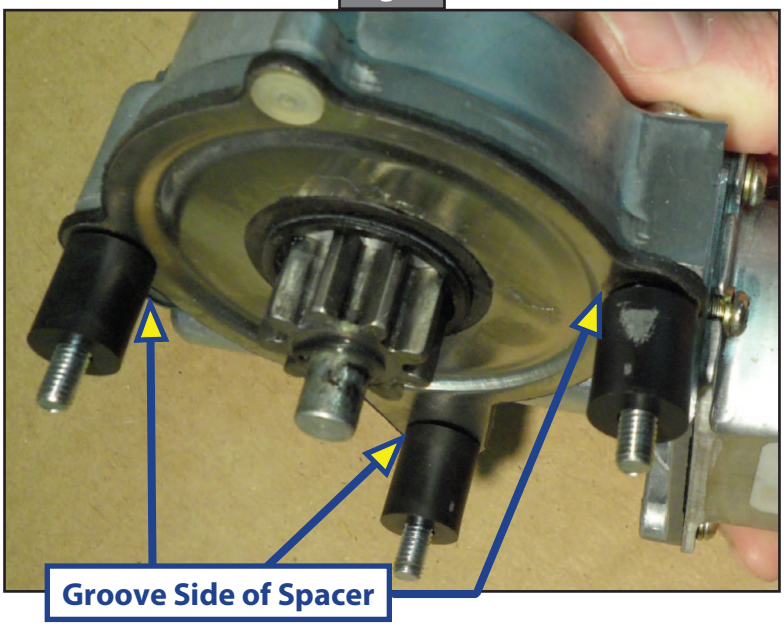
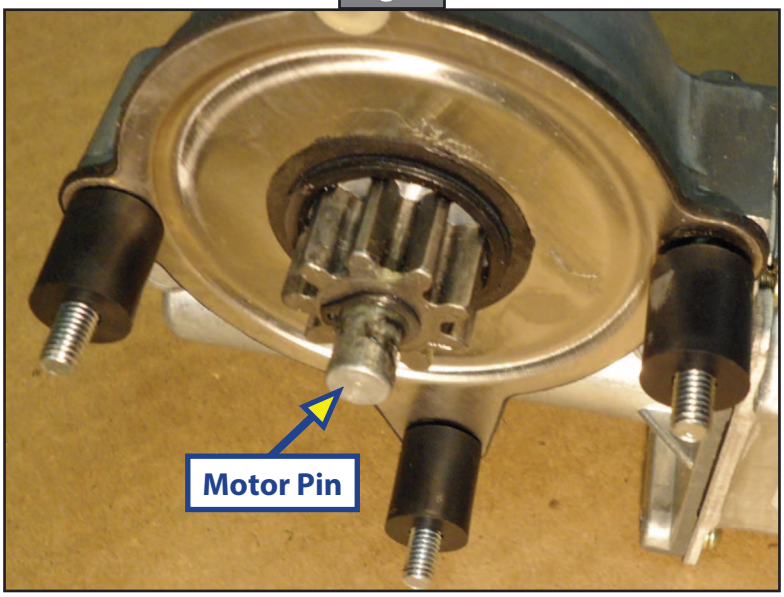


Fig. 6



STEPS

4. Verify that the motor gear is properly engaged with the drive gear mechanism (Fig. 7).
5. If the motor pin and the hex bolts do not line up properly, loosen—but do not remove—the hex bolts (Fig. 8).
6. Install the motor.
7. While holding the motor in place, tighten the hex bolts to 80 in-lbs.
8. With the motor fitted properly, use the 5/16" hex driver to tighten the bolts.

NOTE: Be careful. Do not tighten the hex bolts all the way down.

9. Use the 5/16" torque wrench to finish tightening all hex bolts down to 18 in-lbs.

NOTE: Do not overtighten!

10. Reconnect the 2-wire power motor harness to the motor. Remove the jack or jack stand from the step. Test the extension and retraction of the step.

Fig. 7

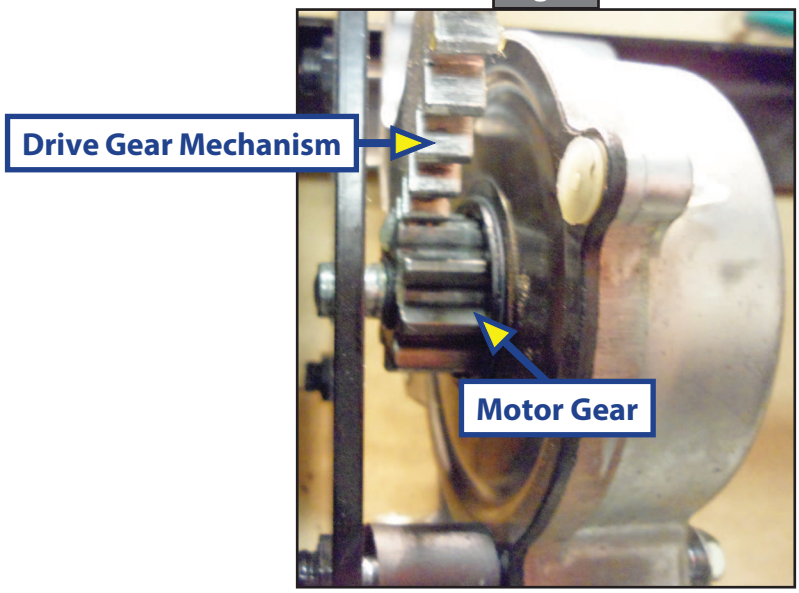
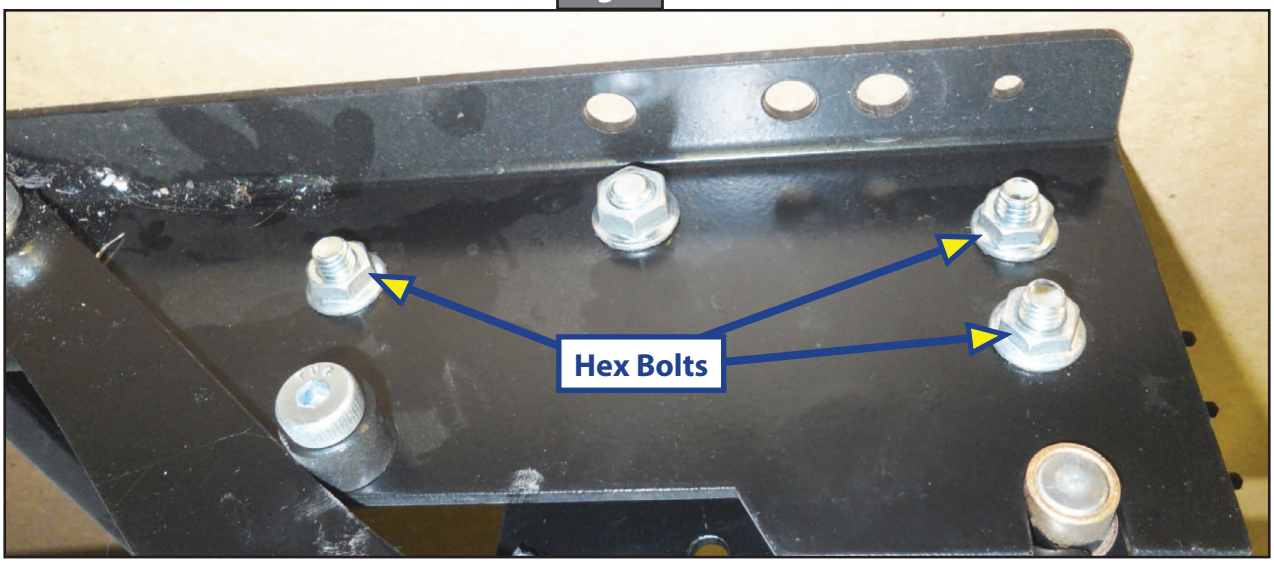


Fig. 8



Support Documentation

Document #	Description
Kwikee 1422279 / LCI 369410	Kwikee 888 Electric Step Owner's Manual
82-ST0500	Kwikee IMGL Step Control Testing Procedure
82-ST0501	QR-034, Kwikee Step Identification and Replacement Parts Guide
Kwikee #3010002262 / LCI #375656	Kwikee Revolution Step Series Owner's Manual