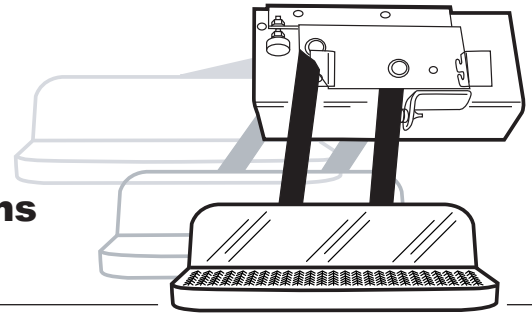


Step Repair Instructions

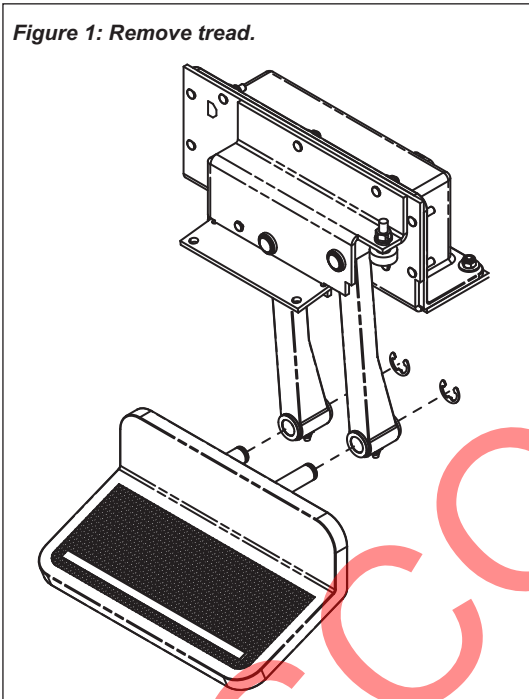


To repair a step may require replacing any or all of the following components:

- Step Tread
- Main frame, motor, adapter gear and sector gear
- Step Legs

Read all the way through the following instructions before beginning repair to determine what steps are needed to make necessary repairs. By familiarizing yourself with step repair procedures, you will be able to determine which steps are needed for the repair(s) you are making.

Figure 1: Remove tread.



Disassemble Step

Note: Step must be disassembled to replace motor, adapter gear, sector gear, and/or legs.

Step 1) Remove e-clips from tread pins and remove tread from legs as shown in **Figure 1**.

If you are only replacing tread, apply a standard automotive chassis grease to the inside of the lower leg bearings, prior to installing the step tread to the legs and re-install e-clips.

If you are not replacing tread or are replacing tread and additional components, leaving the tread off makes the step easier to handle.

Step 2) Remove all mounting brackets from step motor housing. Remove 5 1/4" nuts and washers and 2 carriage bolts from back cover as shown in **Figure 2**. Move back cover aside.

Step 3) Remove 3 1/4" nuts from motor mount plate. Disconnect electrical connector from motor. Remove motor and mount plate assembly as shown in **Figure 3**. Set motor and motor mount plate aside to reinstall later if you are not replacing them.

Figure 2: Remove back cover.

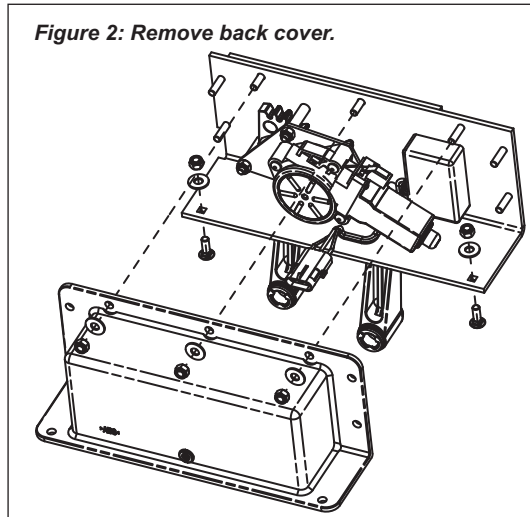


Figure 3: Remove motor.

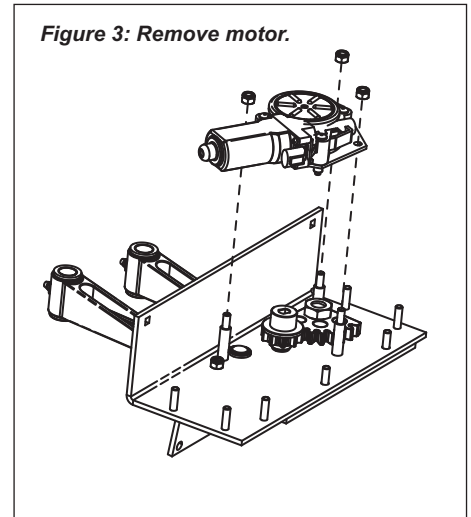
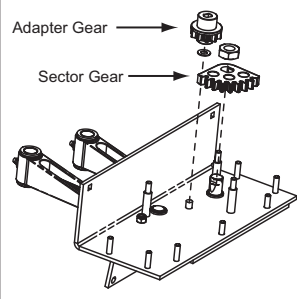


Figure 4: Remove gears.

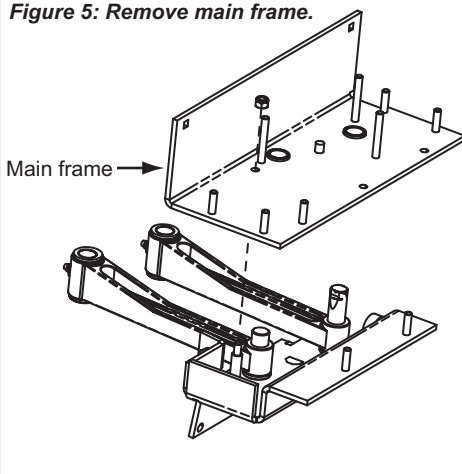


Step 4) Remove adapter gear and nylon washer. Remove 5/8" jam nut from drive leg shaft and set aside. Remove sector gear from drive leg as shown in **Figure 4**.

If you are replacing motor, adapter gear and sector gear, discard the parts removed in Step 4. If not, set these parts aside to re-install later.

Note: Sector gear may need to be pried off of shaft, if you will be re-installing this part, take care not to damage gear teeth when removing gear.

Figure 5: Remove main frame.



Step 5) Remove 1/4" nut holding main frame to front support bracket. Remove main frame from front support bracket as shown in **Figure 5**.

Set aside the three spacers for re-installation.

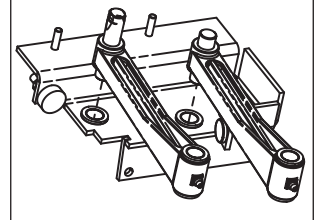
If you are replacing motor, adapter gear and sector gear, discard the main frame removed in Step 5 but save the three spacers for use with new main frame.

If you are not replacing the motor and gears, set the main frame and spacers aside to re-install later.

If you are not replacing legs, skip to Step 7.

Step 6) If you are replacing the legs, remove drive and idler legs from front support bracket as shown in **Figure 6**. Replace with new legs. Apply a standard automotive chassis grease to both inner and outer upper leg bearings during assembly.

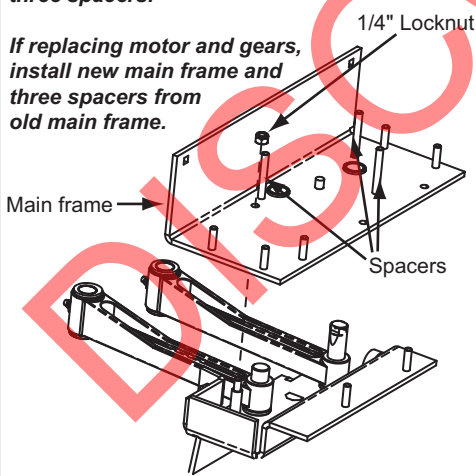
Figure 6: Remove legs.



Continue with Step 7.

Figure 7: Install main frame. If not replacing motor and gears, use old main frame and three spacers.

If replacing motor and gears, install new main frame and three spacers from old main frame.

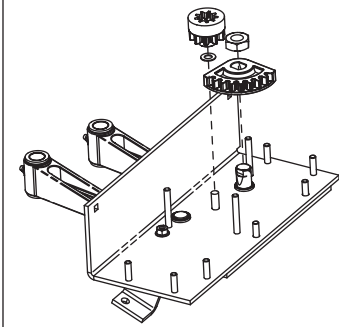


Step 7) Install main frame. If you are not replacing motor and gears, use old main frame and spacers. If you are replacing motor and gears, install new main frame and use spacers from old main frame.

Push main frame down until it seats.

Install and tighten 1/4" locknut as shown in **Figure 7**.

Figure 8: Install gears.



Step 8) Install gears as shown in **Figure 8**. If you are not replacing motor and gears, use old gears removed in Step 4. If you are replacing motor and gears, install new gears.

Apply a thread-locking compound to the drive leg shaft 5/8" thread prior to installing the 5/8" jam nut.

Apply a standard automotive chassis grease to the teeth of both gears.

Torque the 5/8" jam nut, holding the sector gear to the drive leg shaft, to 50 +/- 5 Ft-Lbs.

Step 9) Install motor as shown in **Figure 9**. If you are not replacing motor, use old motor removed in Step 3. If you are replacing motor, install new motor.

Note: For a correct fit you must use either **all new** main frame, motor and gears or **all old** main frame, motor and gears. These parts can not be mixed.

Step 10) Secure control and wiring to motor with tie wrap and install back cover as shown in **Figure 10**.

Figure 9: Install motor.

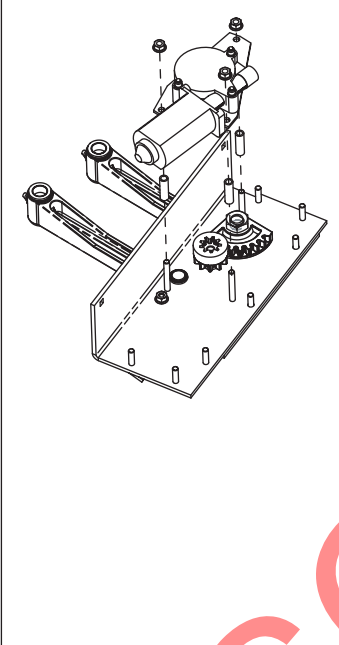


Figure 10: Install back cover.

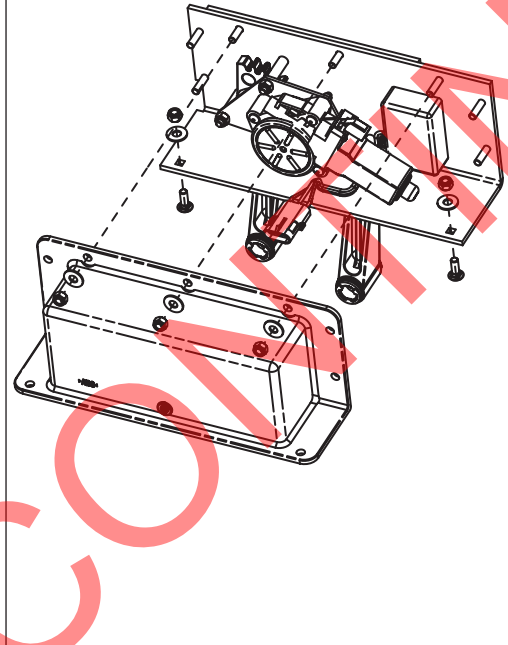
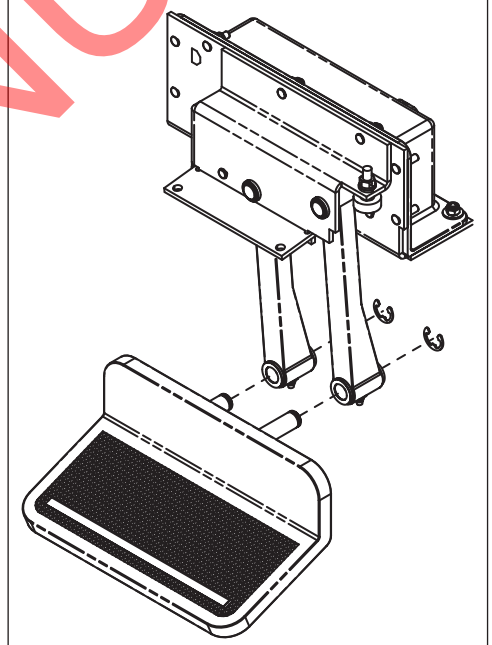
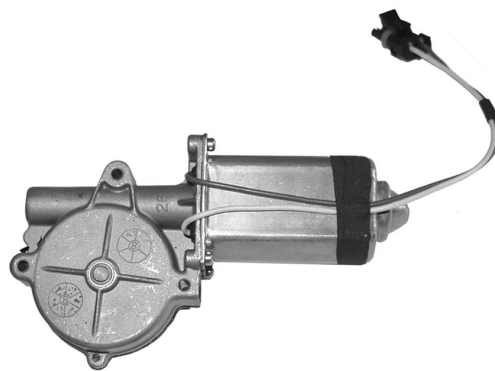


Figure 11: Install tread.



Note: For a correct fit you must use either **'all new'** main frame, motor and gears or **'all old'** main frame, motor and gears. These parts can not be mixed.

For identification purposes, the motor shown on the left is referred to as the "old" motor and the motor on the right is referred to as the "new" motor.



This document has been modified from the original Kodiak Rev 1 release. All former references to the Kodiak warranty and contact information were removed.

**For all concerns or questions, please contact
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