



**TERRA 2500/2500SR
/3500/3500SR/4500/4500SR
SMALL PARTS KIT**

PART NUMBER:

90-42693



**SAVE THESE
INSTRUCTIONS**

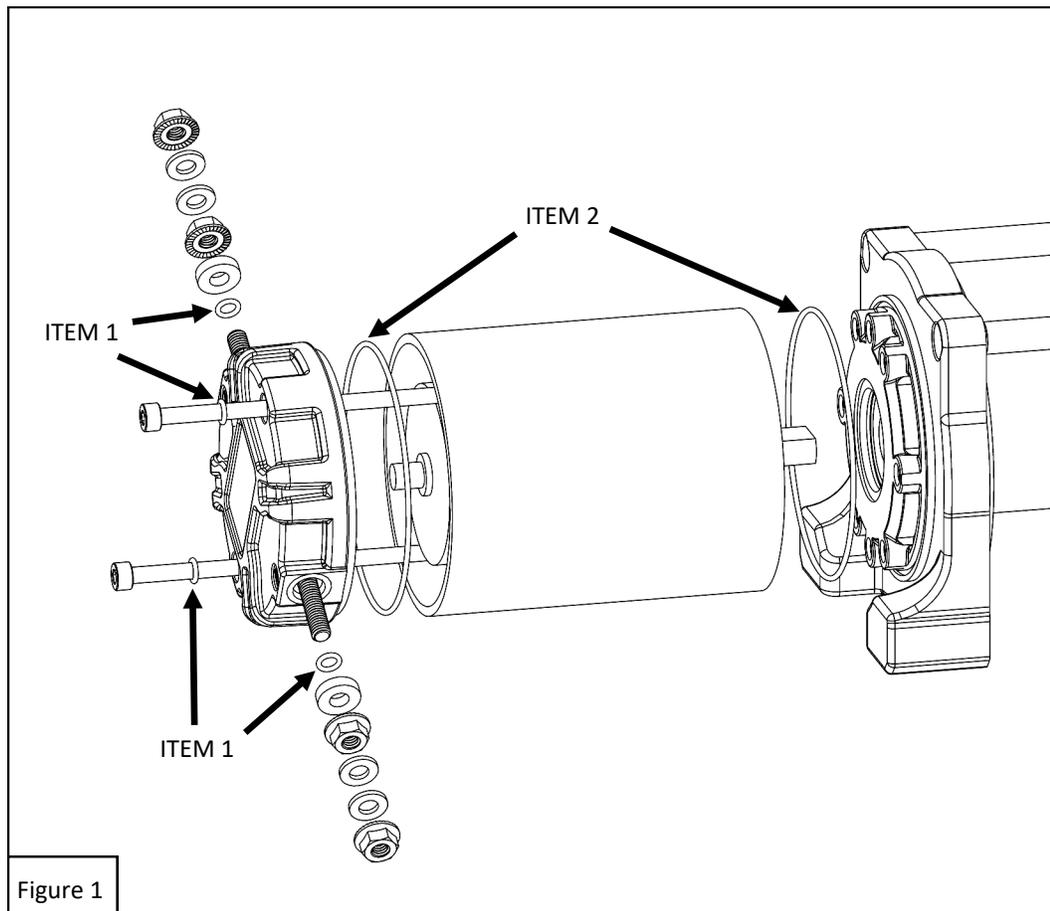
CONTENTS

ITEM	QUANTITY	DESCRIPTION
1	4	SMALL O-RING
2	2	LARGE O-RING
3	1	BALL BEARING
4	1	RETAINING RING
5	2	DRUM BEARING
6	2	DRUM GASKET
7	1	3RD STAGE THRUST BEARING
8	1	2ND STAGE THRUST BEARING - 2500/2500SR
9	1	2ND STAGE THRUST BEARING - 3500/3500SR/4500/4500SR
10	1	1ST STAGE THRUST BEARING - 2500/2500SR
11	1	1ST STAGE THRUST BEARING - 3500/3500SR/4500/4500SR
12	1	MEDIUM O-RING
13	1	FACE SEAL
14	1	CLUTCH SPRING
15	2	SHORT TIE BAR
16	2	LONG TIE BAR
17	2	LONG M5 SOCKET HEAD BOLT
18	2	SHORT M5 SOCKET HEAD BOLT

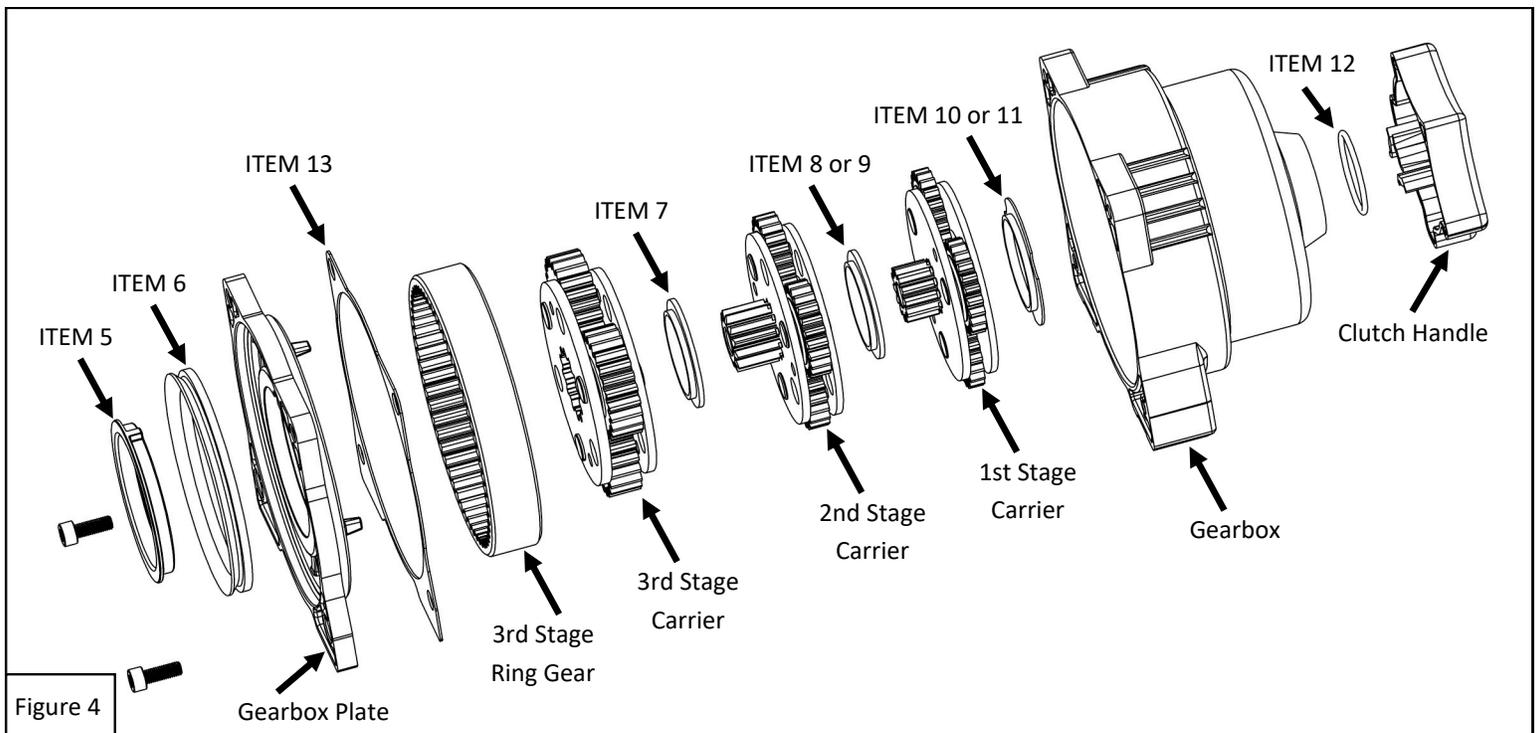
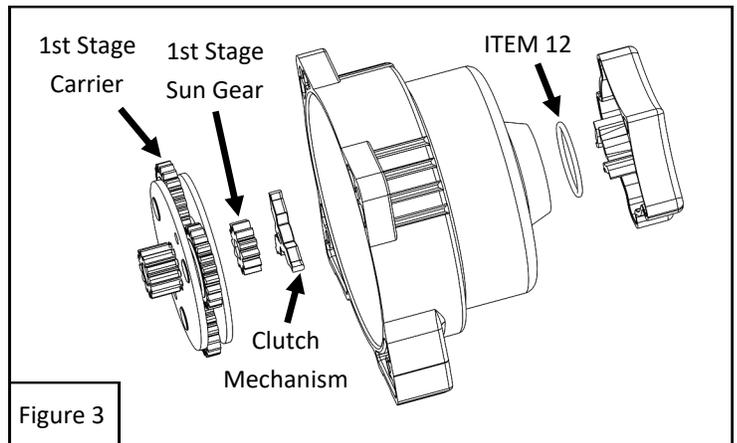
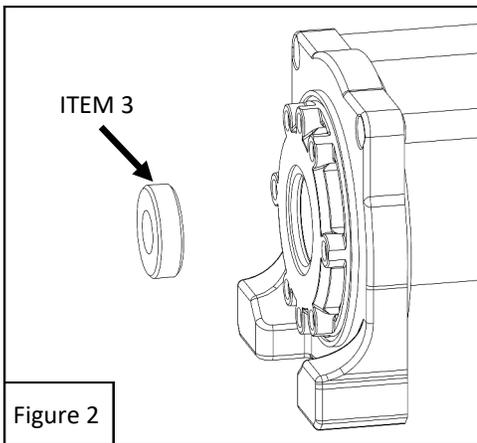
ANTI-SEIZE LUBRICANT MUST BE USED ON ALL STAINLESS STEEL FASTENERS TO PREVENT THREAD DAMAGE AND GALLING

INSTALLATION INSTRUCTIONS

1. Remove contents from box, verify if all parts listed are present and free from damage. **Failure to identify damage before installation could lead to a rejection of any claim.**
 2. Carefully read and understand all instructions before attempting installation. **Ensure that all mounting hardware is torqued to specifications prior to use.**
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3. Disconnect the ground cable and power cable from the battery.
 4. Remove the motor cables from the winch.
 5. Remove the motor by removing the two socket head bolts holding it in place See **Figure 1**.
 6. Remove and replace the small O-rings (item 1) from the motor bolts.
 7. Remove the hardware and insulators from the motor terminals. **Note:** Make sure that the insulators are reinstalled in their original locations.
 8. Remove and replace the small O-rings (item 1) from the motor terminals.
 9. Reinstall the motor terminal insulators and hardware.
 10. Remove and replace the large O-rings (item 2) from each end of the motor.



11. Remove the original ball bearing from the motor end drum support by removing the retaining ring holding it in place.
12. Install the replacement ball bearing (item 3) using the replacement retaining ring (item 4).
13. Reinstall the motor using the hardware removed in **Step 5**.
14. Remove the tie bars by removing the four socket head bolts holding them in place and separate the motor end, drum, driveshaft, and gearbox.
15. Remove and replace the drum bearings (item 5) and drum gaskets (item 6) on the drum supports. See **Figure 4**.
16. Remove the gearbox plate from the gearbox by removing the two socket head bolts holding it in place.
17. Remove the 3rd stage ring gear and carrier from the gearbox.
18. Remove and replace the 3rd stage thrust bearing (item 7).
19. Remove the 2nd stage carrier from the gearbox.
20. Remove and replace the 2nd stage thrust bearing (item 8 or 9). **Note:** Use the thrust bearing that matches the original thrust bearing.
21. Repeat steps 19 and 20 with the 1st stage carrier and 1st stage thrust bearing (item 10 or 11).



22. Remove the 1st stage sun gear and clutch mechanism from the gearbox.
23. Remove the clutch handle by removing the retaining ring holding it in place.
24. Remove and replace the medium O-ring (item 12). See **Figure 4**.
25. Reinstall the clutch handle, retaining ring, clutch mechanism, and 1st stage sun gear.
26. Tilt the gearbox up so that it rests on the clutch handle.
27. Reinstall the 1st stage carrier, 2nd stage carrier, 3rd stage carrier, and 3rd stage ring gear.
28. Reinstall and rotate the driveshaft to ensure that the gear assemblies are installed correctly.
29. Install the replacement face seal (item 13). See **Figure 4**.
30. Reinstall the gearbox plate using the hardware removed in **Step 16**.
31. Install the replacement clutch spring (item 14).
32. Reinstall the drum ensuring that the spline end of the drum points towards the gearbox.
33. Install the replacement tie bars (item 15 or 16) using the hardware removed in **Step 14**. **Note:** Use the tie bars that match the original tie bars. Use the provided Long M5 Socket Head Bolts (item 17) to install the tie bars to the gearbox.
34. Reinstall the motor end of the winch ensuring that the brake adapter engages the driveshaft. **Note:** Use the provided Short M5 Socket Head Bolts (item 18) to fasten the motor end to the tie bars.
35. Reinstall the motor cables ensuring that the cable color matches the motor terminal color.
36. Reconnect the ground cable and power cable to the battery.

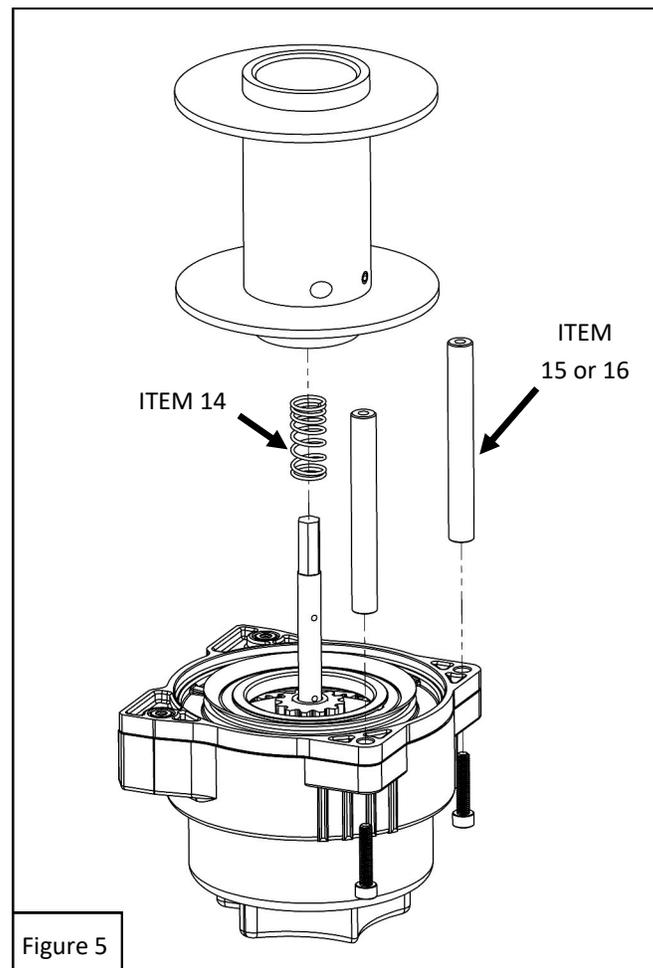


Figure 5

WARNINGS

Failure to follow these instructions could lead to death, personal injury, and / or property damage.

FASTENERS:

All SUPERWINCH supplied fasteners must be utilized and installed in accordance with the installation instructions and apply torque to the specifications as defined. DOUBLE CHECK ALL FASTENERS BEFORE INITIAL USE, AND PERIODICALLY IN THE FUTURE TO ENSURE PROPER FUNCTION AND SAFETY.

EYE PROTECTION:

ALWAYS WEAR SAFETY GLASSES OR GOGGLES DURING THE INSTALLATION PROCESS TO AVOID PERSONAL INJURY.

FOR CALIFORNIA RESIDENTS ONLY-PROP 65 WARNING:

Some products may contain chemicals such as DEHP, which can cause cancer, birth defects or other reproductive harm. For more info go to www.p65warnings.ca.gov



For more information on this and other products,
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