



Tiger Shark 18000/18000SR/66 kN Small Parts Kit

PART NUMBER:

90-42652



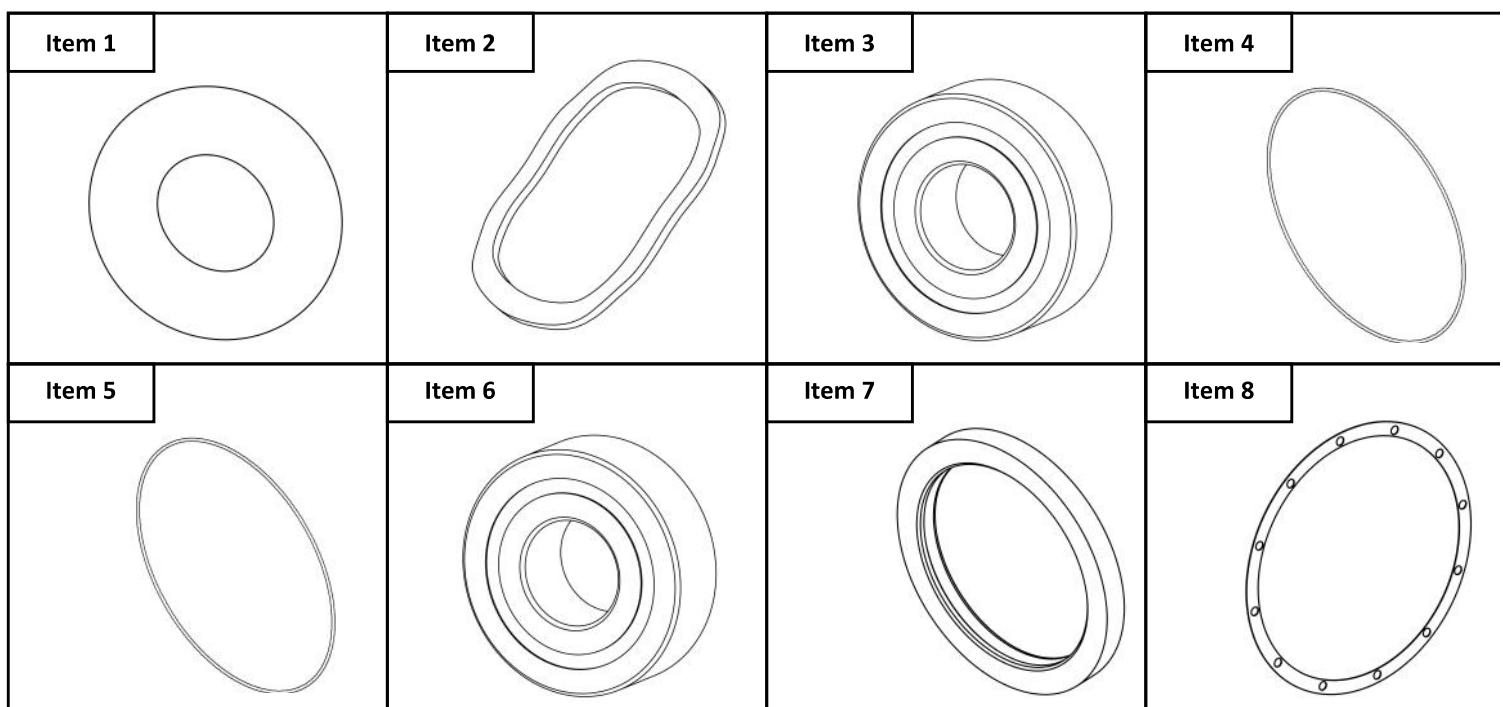
**SAVE THESE
INSTRUCTIONS**

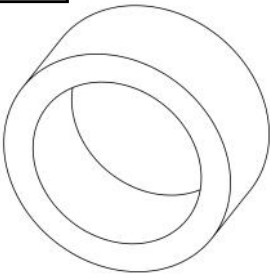
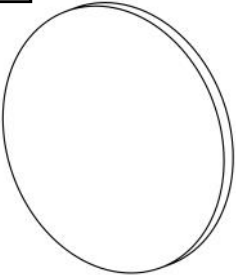
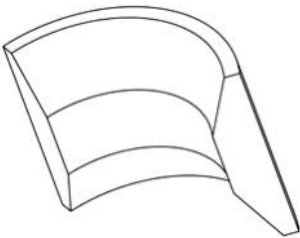
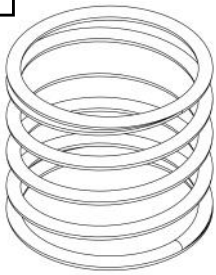
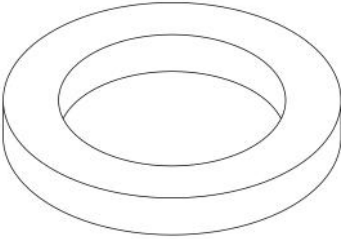
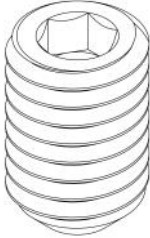
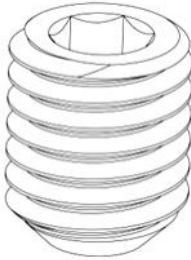
CONTENTS

ITEM	QUANTITY	DESCRIPTION
1	2	MOTOR BOLT O-RING
2	1	BALL BEARING SPACER
3	1	SMALL BALL BEARING
4	1	MOTOR END SEAL
5	1	MOTOR SEAL
6	1	LARGE BALL BEARING
7	2	DRUM SUPPORT SEAL/BUSHING
8	2	FACE SEAL
9	1	GEARBOX BUSHING
10	1	ROUND SPACER PLATE
11	1	CONE BRAKE
12	3	BRAKE PAD
13	1	CLUTCH SPRING
14	1	CLUTCH GASKET
15	1	M8 SET SCREW
16*	2	M10 SET SCREW

NOTE: Items with asterisks (*) are exclusive to the Tiger Shark 66kN Winch

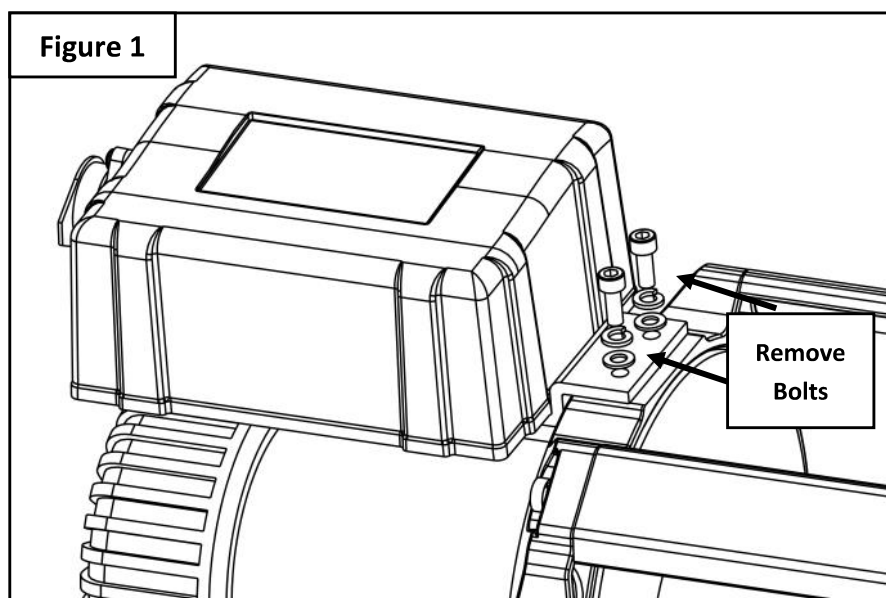
ANTI-SEIZE LUBRICANT MUST BE USED ON ALL STAINLESS STEEL FASTENERS TO PREVENT THREAD DAMAGE AND GALLING



Item 9 	Item 10 	Item 11 	Item 12 
Item 13 	Item 14 	Item 15 	Item 16 

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.**
3. Disconnect the power cable and ground cable from the battery.
4. Remove one M8 serrated flange nut from each motor terminal and remove the motor cables.
5. Remove the control box by removing the two bolts holding it in place. See **Figure 1**.
6. Lift the motor end of the winch up so that the winch rests on the gearbox.



7. Remove the motor by removing the two motor bolts. See **Figure 2**.
8. Remove and replace the two Motor Bolts O-Rings (**item 1**) . See **Figure 2**.
9. Remove the motor end drum support from the winch by removing the two socket head bolts holding in place. See **Figure 3**.
10. Remove and replace the Large Ball Bearing (**item 6**). See **Figure 4**.
11. Remove and replace the Drum Support Seal/Bushing (**item 7**). See **Figure 5**.
12. Remove and replace the Ball Bearing Spacer (**item 2**), Small Ball Bearing (**item 3**), Motor End Seal (**item 4**), and Motor Seal (**item 5**). See **Figure 2**.
13. Reassemble the motor and motor end drum support. See **Figure 2**.

Figure 2

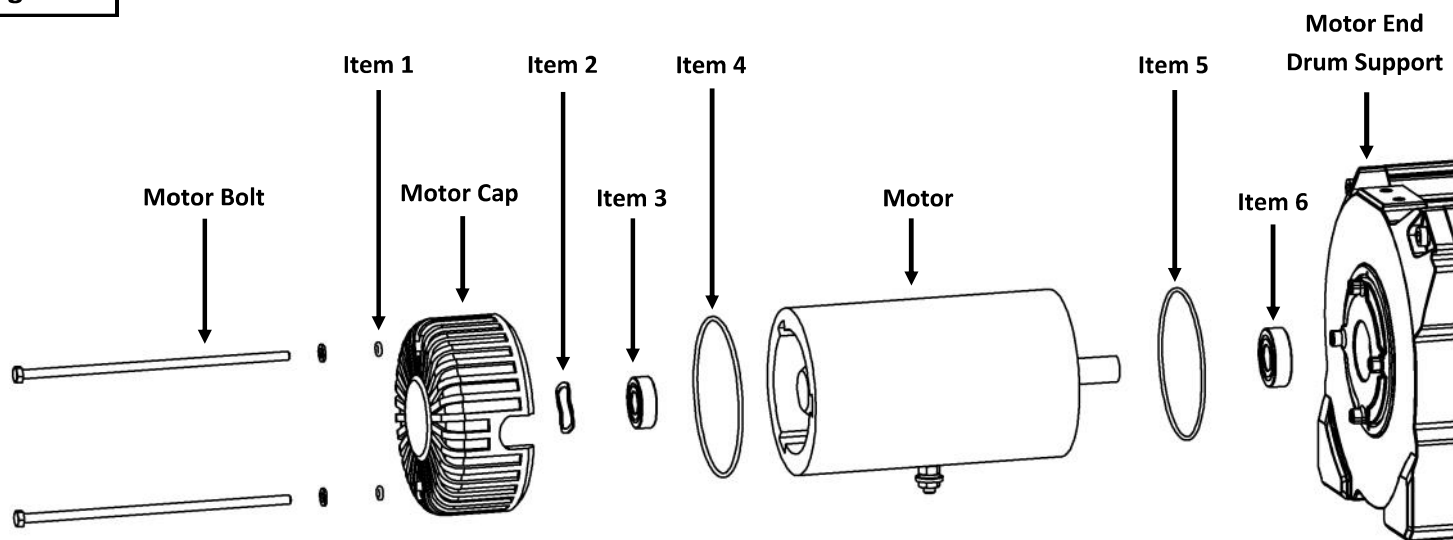


Figure 3

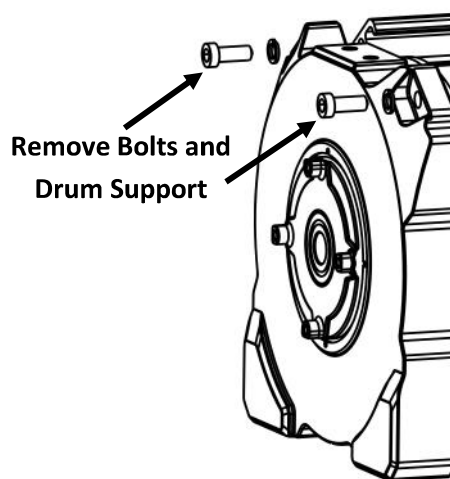


Figure 4

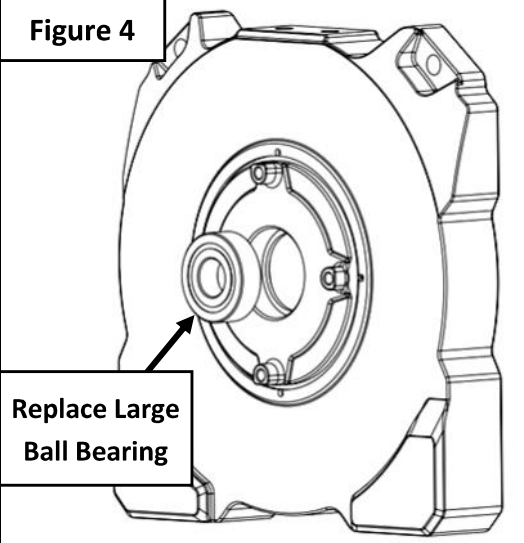
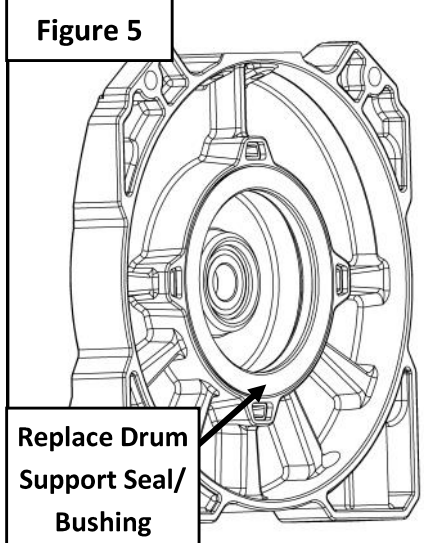


Figure 5



14. Remove the drum, tie bars, and drive shaft from the gearbox end of the winch.
15. Remove the gearbox drum support by removing the bolts. See **Figure 6**.
16. Remove and replace the Drum Support Seal/Bushing on the gearbox end drum support. See **Figure 5**.
17. Remove the first Face Seal (**item 8**) See **Figure 7**.

Figure 6

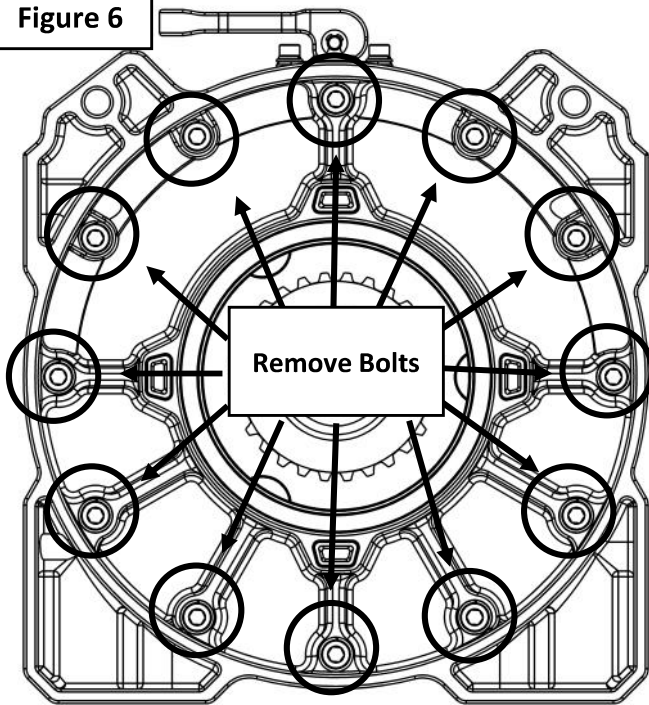
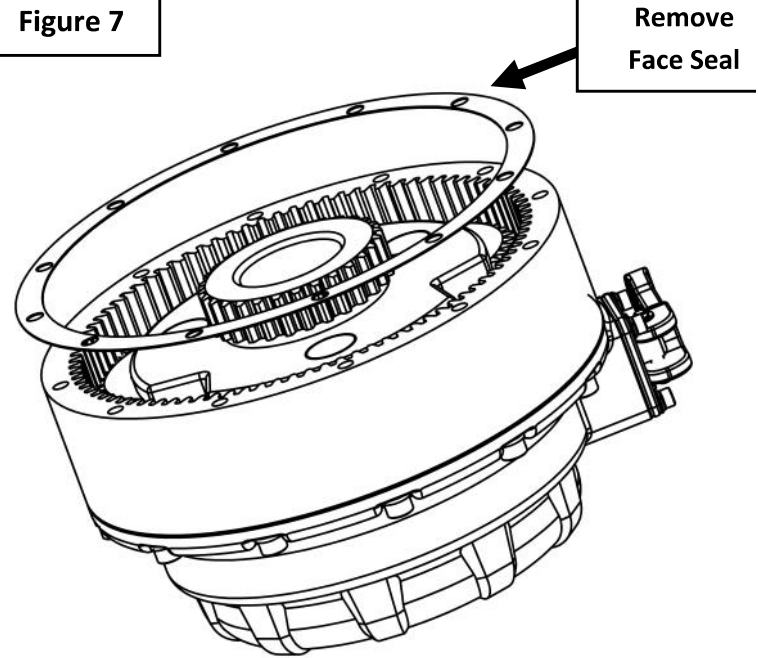
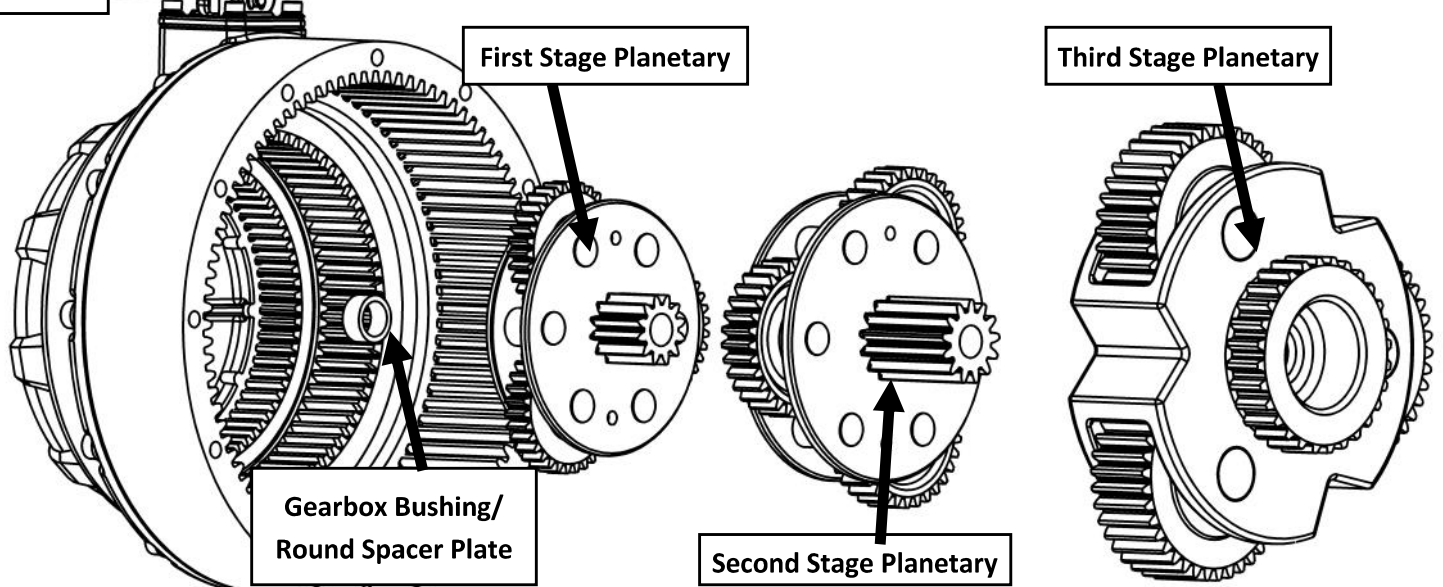


Figure 7



18. Remove the third stage planetary gearset, second stage planetary gearset, first stage planetary gearset, Gearbox Bushing (**item 9**), and Round Spacer Plate (**item 10**). See **Figure 8**.

Figure 8



19. Remove the bolts that are located on the gearbox. See **Figure 9**.

20. Replace the second Face Seal (**item 8**) and reinstall the bolts that were removed in **Step 19**. See **Figure 10**.

Figure 9

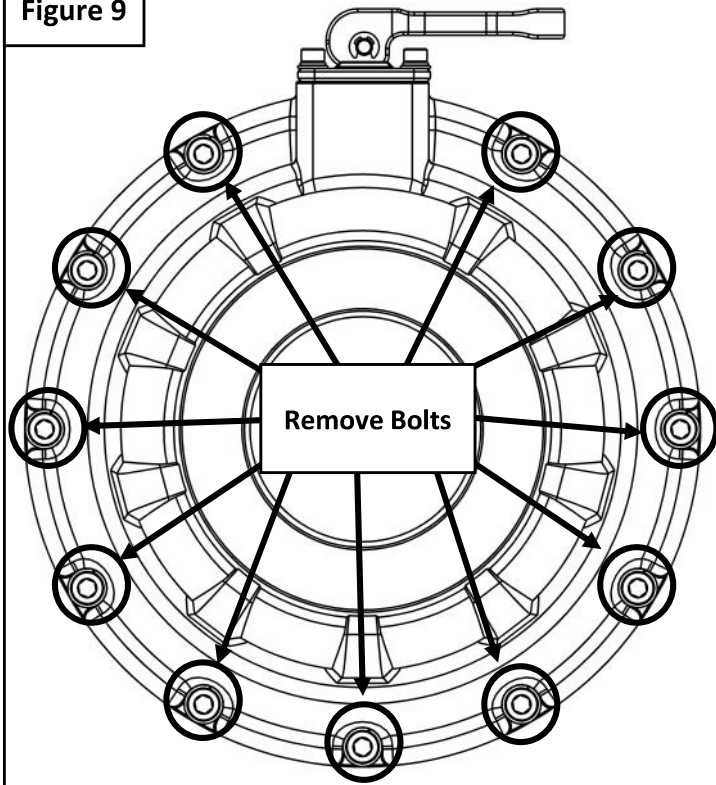
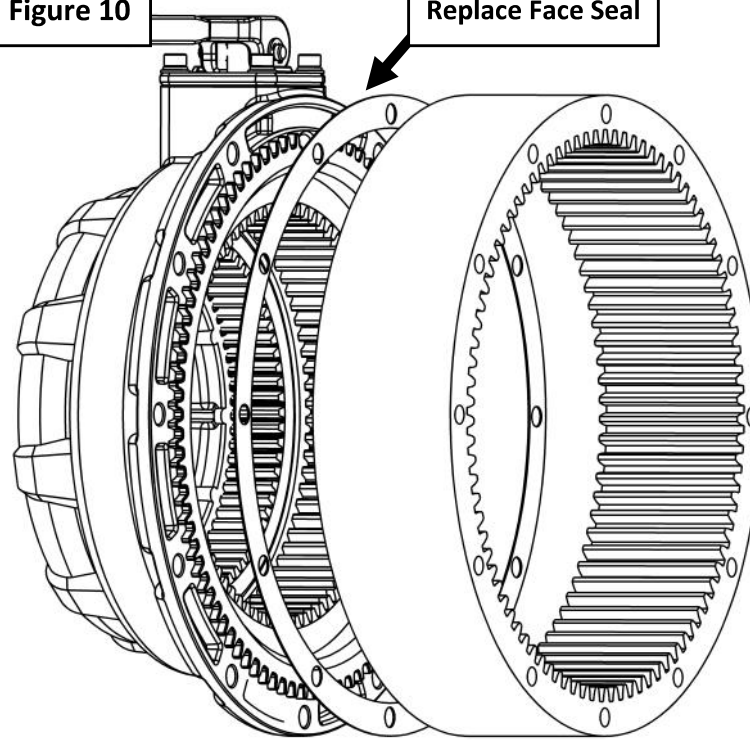


Figure 10

Replace Face Seal



21. Install the new Gearbox Bushing (**item 9**), and Round Spacer Plate (**item 10**). See **Figure 8**.

22. Reinstall the first stage planetary gearset, second stage planetary gearset, and third stage planetary gearset.

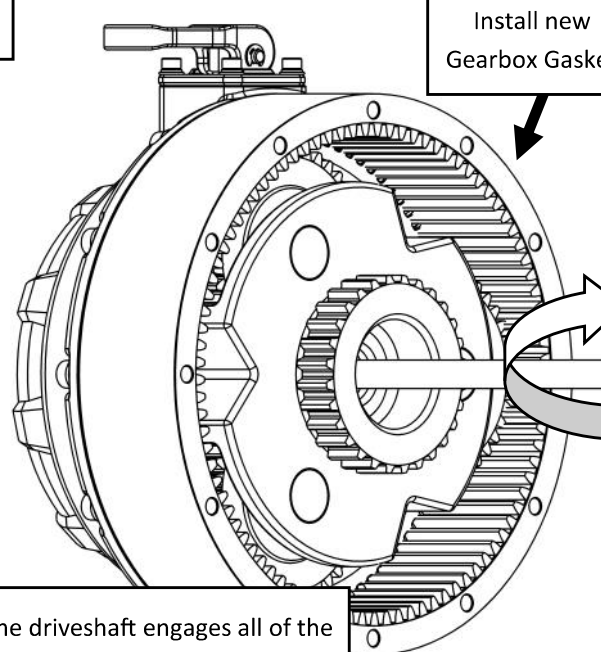
NOTE: Make sure that the planetary gearsets are seated in place.

23. Install the new Face Seal (**item 8**) and reinstall the drive shaft.

24. Rotate the drive shaft in order to ensure that the gear assemblies are installed correctly. See **Figure 11**.

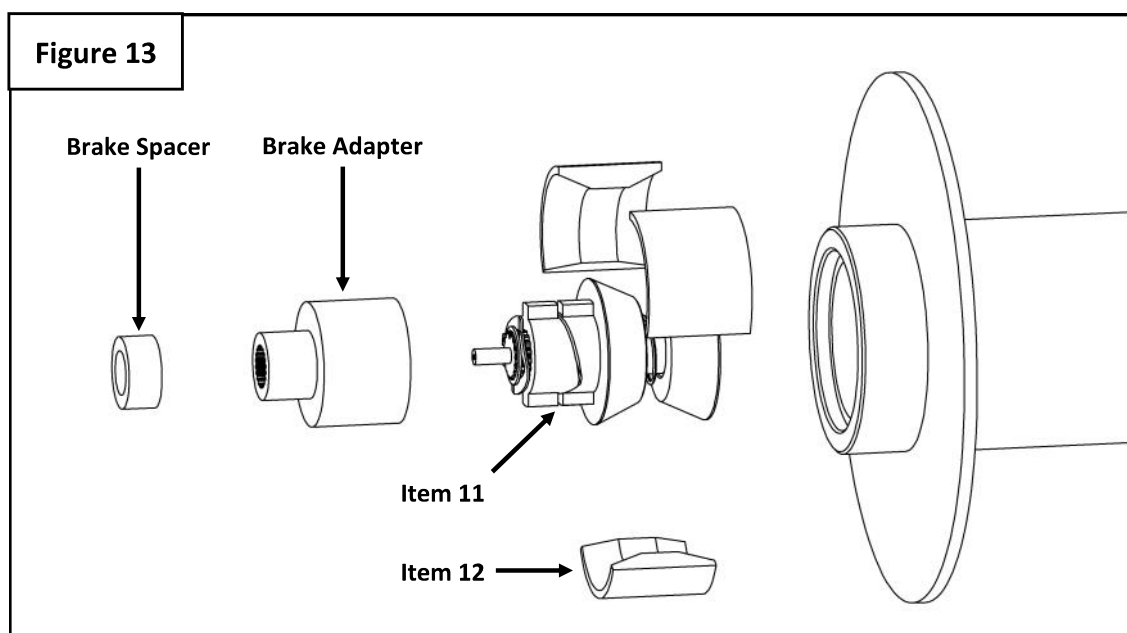
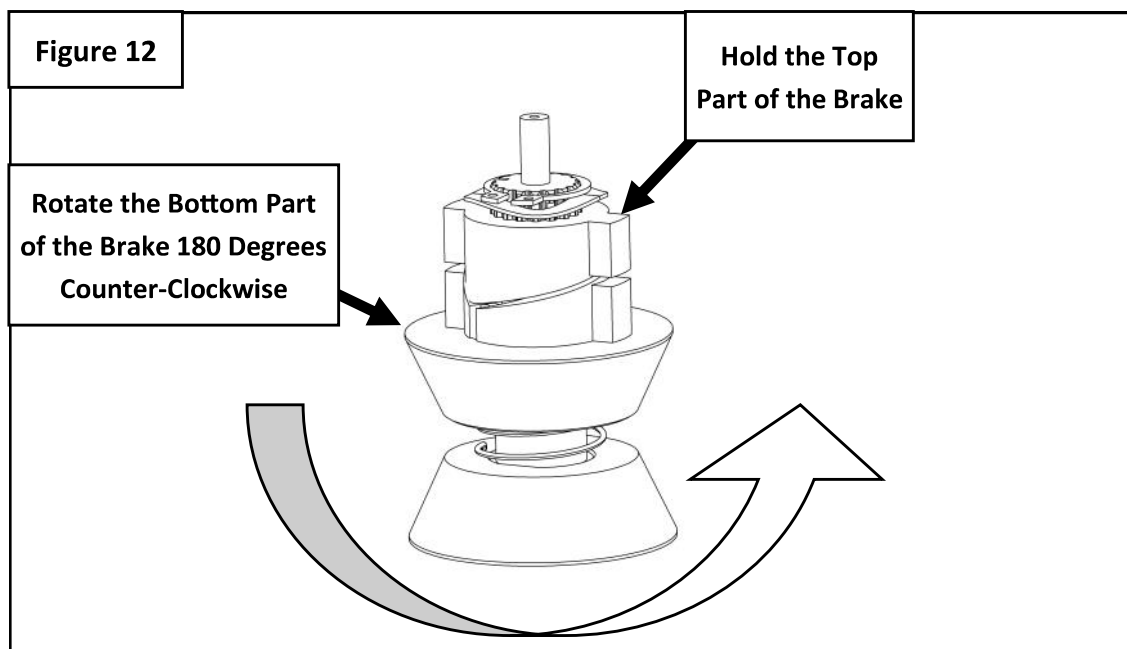
Figure 11

Install new Gearbox Gasket



Ensure that the driveshaft engages all of the gearsets properly by spinning the drive shaft

25. Reinstall the gearbox drum support .
26. Reinstall the drum and tie bars to the gearbox end of the winch. **NOTE:** Make sure to install the drum so that the spline side of the drum engages the gears.
27. Remove the old cone brake and brake pads from the drum. **NOTE:** Use the driveshaft to rotate the cone brake while removing brake.
28. Hold the top part of the replacement Cone Brake (**item 11**) while rotating the bottom part of the brake counter-clockwise 180 degrees. See **Figure 12**.
29. Place the brake adapter over the top of the cone brake while the bottom part of the cone brake is rotated.
30. Place the new brake pads (**item 12**) onto the brake.
31. Place the brake adapter, cone brake, and brake pads inside of the drum. **NOTE:** Rotate the bottom of the brake if the brake/brake pads don't fit inside the drum. Rotate the parts inside the drum until the brake slides onto the driveshaft.
32. Place the brake spacer on top of the brake adapter.



33. Reinstall the motor end of the winch.
34. Remove the clutch from the winch by removing the bolts holding it in place. See **Figure 14**.
35. Remove the retaining clips from the clutch and disassemble the clutch.
36. Reassemble the clutch using the replacement Clutch Spring (**item 13**) and the Clutch Gasket (**Item 14**). See **Figure 15**.
37. Reinstall the clutch.

Figure 14

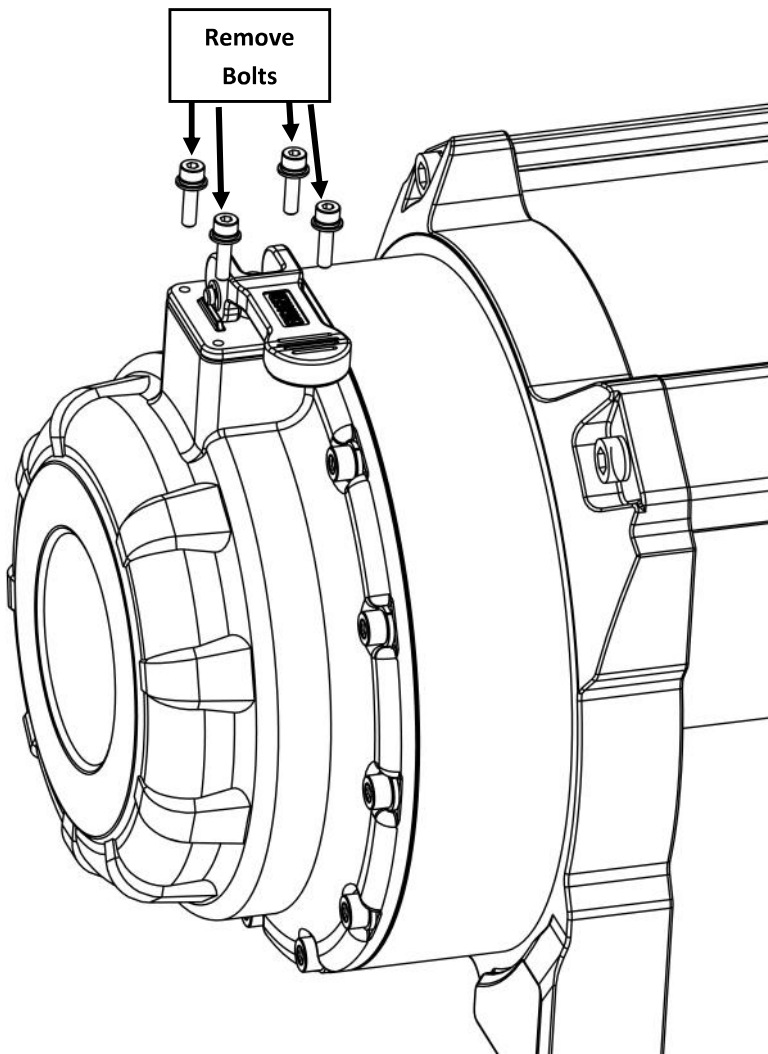
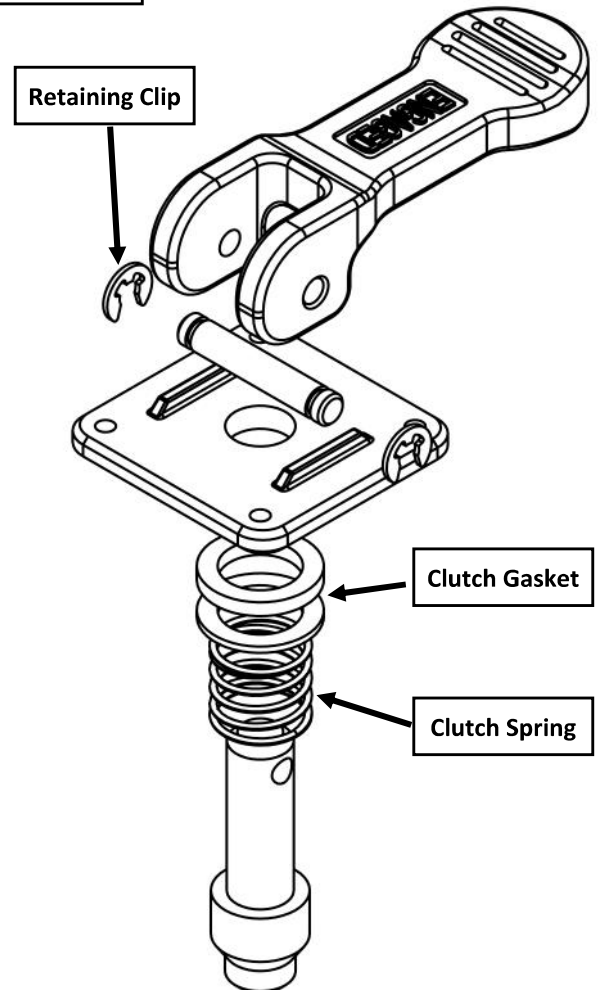
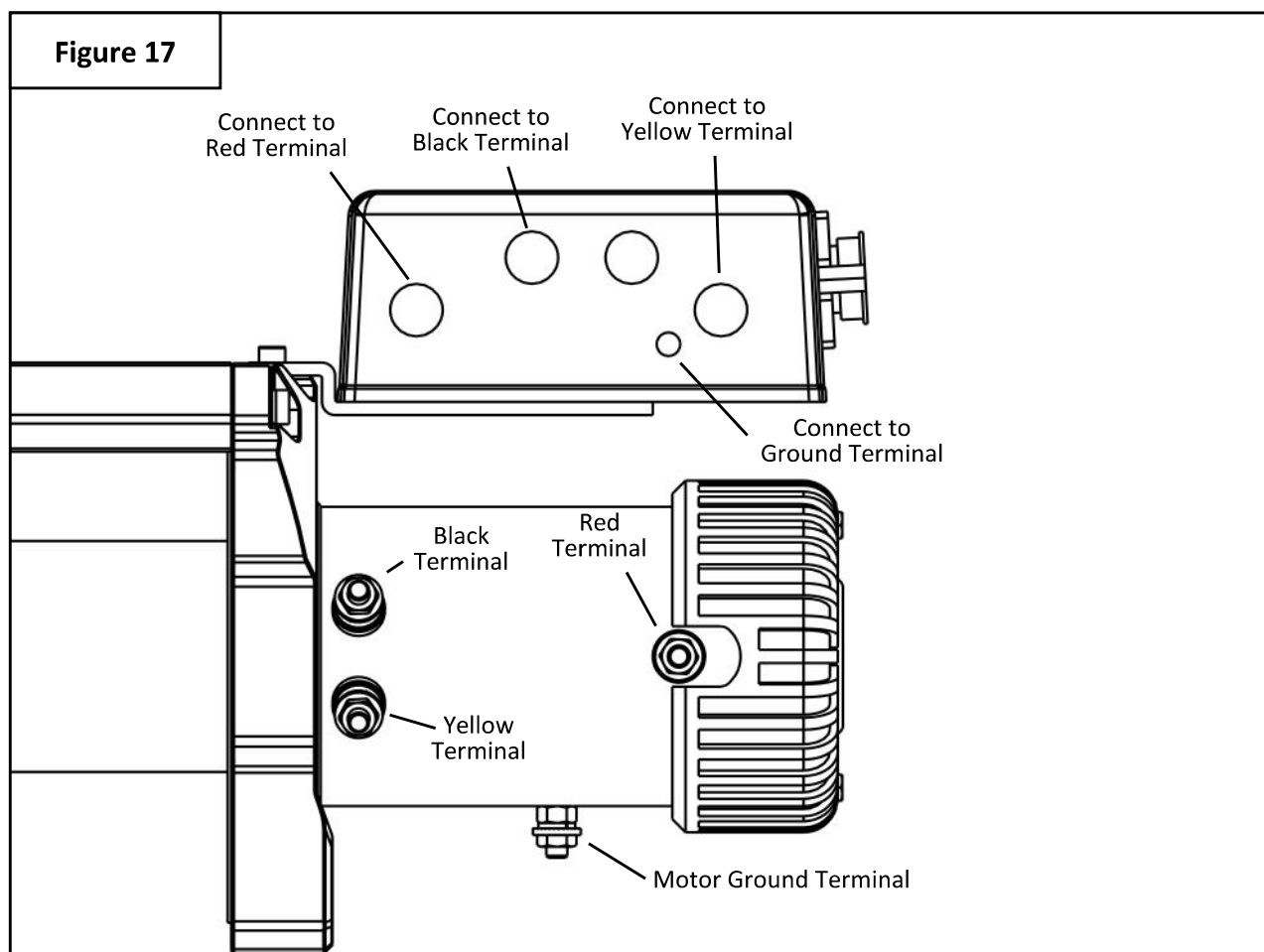
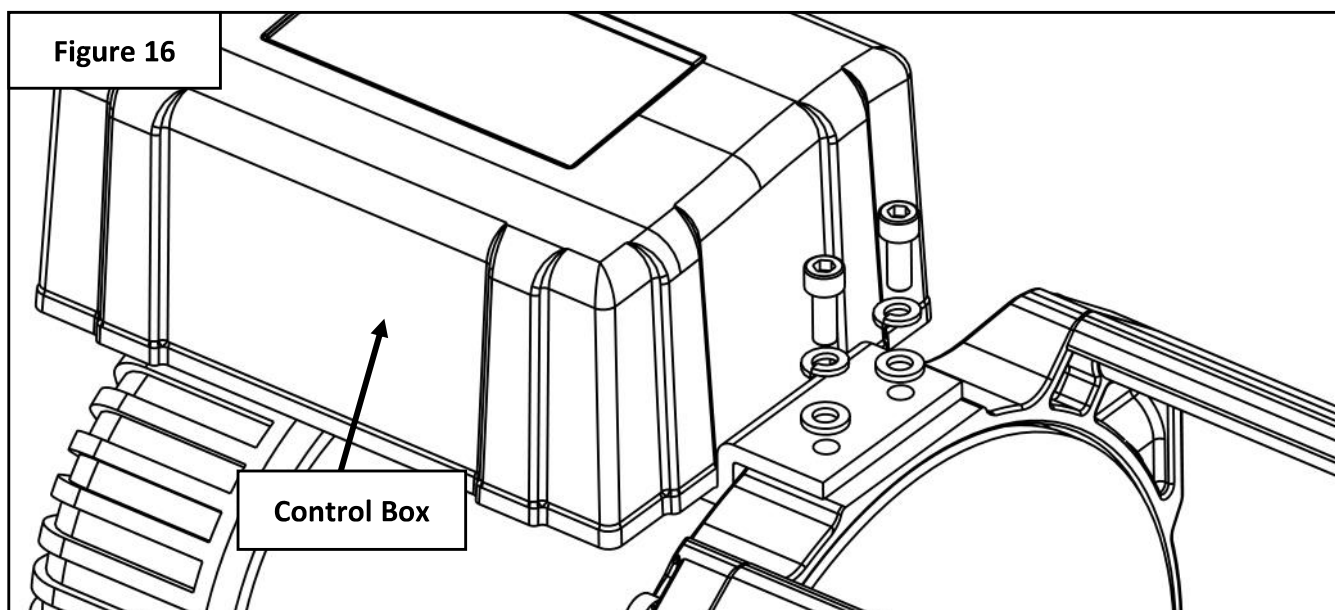


Figure 15



38. Remove and replace the set screw. **NOTE:** For Tiger Shark 180000/18000SR winches, use the M8 set screw (**item 15**). For Tiger Shark 66 kN winches, use the M10 set screws (**item 16**).

39. Using the hardware removed in **Step 5**, reinstall the control box onto the winch. See **Figure 16**.
40. Connect the red, black, yellow, and ground cables to the motor. See **Figure 17**.
41. Torque the M8 serrated flange nuts on the motor to 15-18 ft-lbs. **NOTE:** Use a wrench to hold the nuts underneath the cables while tightening the nuts on top of the cables.



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



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