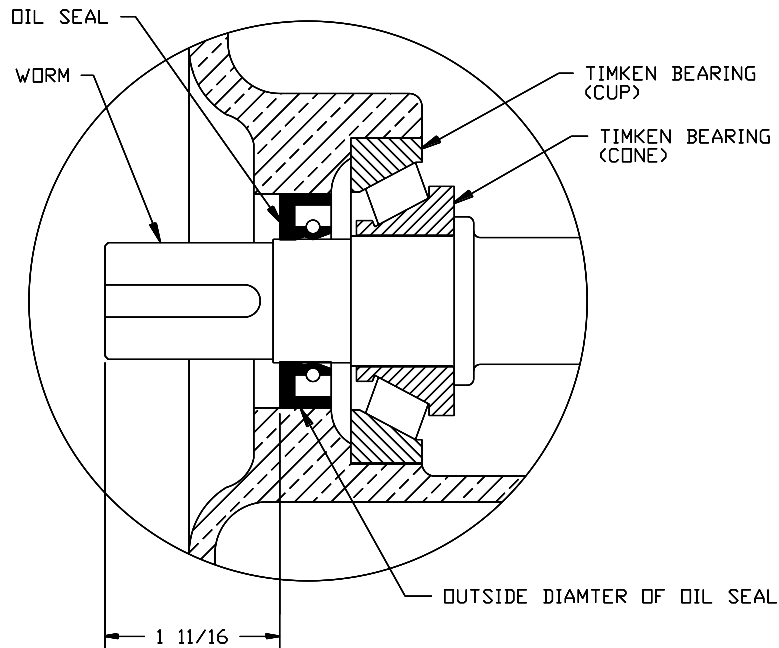


CHANGING WORM SHAFT OIL SEAL BC-3P AND BC-4P GEAR CASE

REV. 3, 11/22/16

1. IF OIL IS SEEN AT THE BOTTOM OF MOTOR ATTACHING SCREWS (#44), OIL SEAL (#11) NEEDS TO BE REPLACED.
2. DISCONNECT POWER TO HOIST.
3. DRAIN OIL FROM GEARCASE.
4. DISCONNECT L1, L2 AND L3 WIRES AT MOTOR JUNCTION BOX. LABEL ALL WIRES. REMOVE 7 MOTOR ATTACHING SCREWS (#44). SUPPORT MOTOR TO INSURE NO DAMAGE IS DONE TO SLEEVE (#12). PULL MOTOR FROM HOIST.
5. REMOVE SLEEVE (#12) AND MOTOR KEY (#48) TO ACCESS OIL SEAL.
6. REMOVE OIL SEAL (#11). **CAUTION:** DON'T USE A SHARP TOOL TO REMOVE OIL SEAL. THIS CAN RESULT IN DAMAGE TO THE BEARING'S CAGE. SEE TOOL NOTE.
7. USE A CLOTH TO CLEAN SURFACE OF WORM SHAFT (#7) AND GEARCASE.
8. PLACE ELECTRICAL TAPE OVER KEYWAY OF WORM SHAFT (#7). THIS WILL PROTECT THE OIL SEAL FROM THE SHARP EDGES OF THE KEYWAY AS IT IS SLID INTO PLACE.
9. USING LOCTITE RTV 598, PART #DM7864 COAT OUTSIDE OF THE NEW OIL SEAL. COAT THE INSIDE OF OIL SEAL WITH GEARCASE OIL.



PARTIAL CROSS-SECTION OF
WORM, SEAL ,& BEARING

10. INSTALL NEW OIL SEAL TO THE DEPTH NOTED ABOVE. DO NOT USE ANY SHARP TOOLS TO PRESS SEAL IN PLACE.
11. INSTALL SLEEVE (#12) AND MOTOR KEY (#48).
12. ATTACH MOTOR ASSEMBLY AND CONNECT L1, L2 AND L3 PROPERLY.
13. FILL GEARCASE WITH 18oz. OF EXXON CYLESSTIC TK 680. ELECTROLIFT PART #DM7146.
14. CONNECT POWER TO HOIST.
15. **IMPORTANT: CHECK FOR PROPER PHASING OF HOIST MOTOR.** PUSH THE DOWN BUTTON, THE HOOK BLOCK OR WIRE ROPE SHOULD UNWIND FROM THE HOIST DRUM. PUSH THE UP BUTTON THE HOOK BLOCK OR WIRE ROPE SHOULD MOVE TOWARD THE HOIST DRUM. IF MOVEMENT IS OPPOSITE TO THE PUSH BUTTON BEING DEPRESSED THEN IT IS NECESSARY TO SWITHC 2 OF THE 3 POWER LINES L1, L2 AND L3.

TOOL NOTE: A TOOL MAY BE MADE FROM A 10-32 THREADED ROD. BEND A ROD TO FORM A ¼" HOOK ON ONE END. FORM A HOOK ON THE OPPOSITE END LARGE ENOUGH FOR ONE OR TWO FINGERS TO FIT INTO THE HOOK. SMOOTH EDGES OF THE TOOL. PROBING THE OIL SEAL YOU CAN FIND A WEAK AREA OF THE SEAL. PUSH THE TOOL PAST THIS AREA, HOOK AND PULL OIL SEAL TO REMOVE FROM THE SHAFT.

Changing Worm Shaft Oil Seal BC-3P and BC- 4P.doc