

Crankshaft Seal Upgrade Instructions

TCP OFFROAD IS NOT RESPONSIBLE FOR ANY DAMAGES. BE VERY CAREFUL NOT TO DAMAGE YOUR CRANKSHAFT OR CASES DURING THIS PROCESS.

TOOLS NEEDED

Flat Head Screwdriver
Small Hammer
Lint Free Cloth
Towel
Yamabond or other high heat silicone
Cleaning Solution - Acetone

ALWAYS WEAR PPE

ESTIMATED INSTALL TIME 1-2 Hours

Removal Of Old Seal

Very carefully start tapping the old seal. DO NOT hit or knick the Crankshaft. Once you see the inner lip of the seal insert your flat head screw driver behind the seal and slowly but carefully pull the seal out. Make sure you remove the entire rubber oil seal and metal shavings. While removing the seal if you separate the metal inners for the rubber you can use a magnet to remove the metal pieces. You may also use acetone to clean and polish the crankshaft and cases of any nicks, burrs, rust, dirt or sharp edges. Clean around the cases with a towel to ensure no metal shavings or oil is left.

Once clean, make sure the two small oil relief ports located to the left and to the right of the main bearing where the case halves meet and are sealed, there is no excess case sealant in those ports by running torch tip cleaners through the relief ports. These ports relieve the oil bled off the main bearing behind the seal back in the bottom end for recirculation. Failure to check and clean these ports will result in the seal to continue leaking and or pushing the seal out. Remove the foam seal from the inner clutch cover.

Installation of New Seal

Install the new seal inside on the crankshaft. The seal must sit flush against your cases. Use a small amount of oil around the inside of the seal to help ease it on and over the crankshaft.

Install the aluminum ring around the new seal. Use a small amount of Sealant on the inner flange of the aluminum ring. Evenly distribute any excess sealant around the aluminum ring. Allow to dry for at least 6-8 hours.

Test for leaks by idling for a few minutes and if no leaks are present you're good to go.