

# TECHNICAL SERVICE BULLETIN

**TO:** ALL AUTHORIZED LCT ENGINE / HUSQVARNA SERVICING DEALERS  
**SUBJECT:** POTENTIAL ISSUE RELATING TO PTO COVER ANOMOLIES – 414cc SNOW ENGINE  
**DATE:** FEBRUARY 20, 2013

**SCOPE:**

A small percentage of Husqvarna 414cc two-stage snow throwers, powered by the LCT 414cc Snow King series of engines produced in 2011 and 2012, sold in North American and European markets, could have a leaking oil condition caused by PTO cover gasket surface abnormalities. This failure mode, defined as PTO cover bolt torque reduction due to gasket surface abrasion, has been addressed through a complete engineering design change (see photos: Figure 1), implemented for the 2013 snow engine production season.

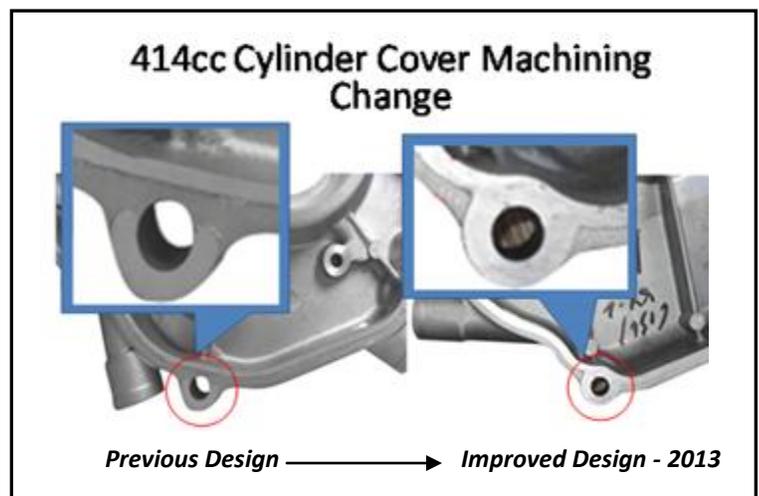
**SERVICE KIT FOR REPAIR:**

In the unlikely event this failure mode is encountered, there is a service kit designed specifically for this repair which includes a PTO cover with a continuously machined gasket surface, and a new PTO cover gasket.

**Husqvarna service part is:** 584885201

**LCT service number is:** 41436501

*Figure 1 (design improvement for engines produced after 2012)*



**REPAIR PROCEDURE:**

**Step 1:**

Drain the remaining oil in the engine, then use the recoil to slowly rotate the engine to TDC (top dead center), on the compression stroke. Rotating the engine to TDC on the compression stroke, prior to removing the PTO cover, will relieve lifter pressure on the camshaft and allow proper removal of the used PTO cover, and installation of the new PTO cover.



*Snow King 414cc two stage snow blower engine.*

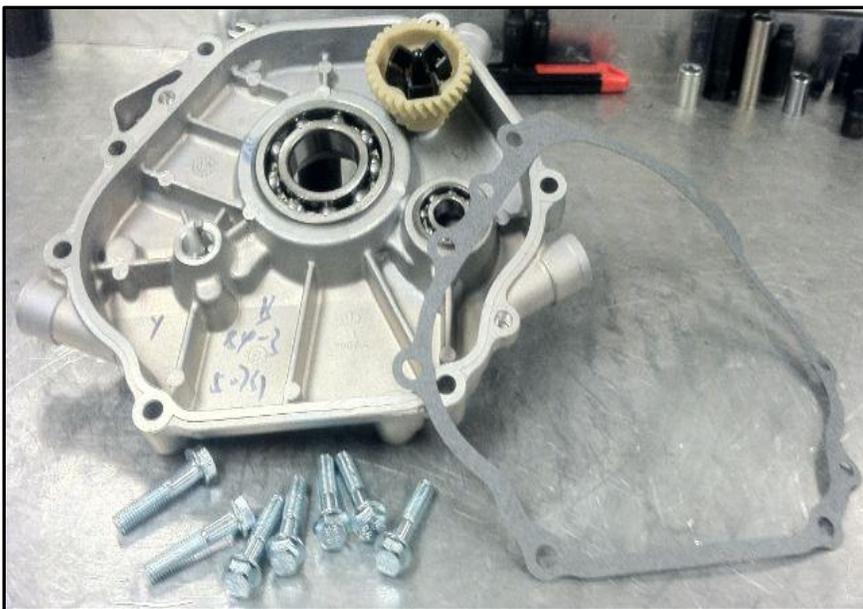
**Step 2:**

Tilt the engine toward the recoil cover, and remove the PTO cover bolts.

Tilting the engine toward the recoil cover will reduce the possibility of residual oil spilling from the crankcase during removal of the PTO cover, while also providing a good working area to access the PTO cover, PTO cover bolts, and PTO cover gasket.



*Proper removal of PTO cover bolts; 414cc Snow King*



*PTO Cover Service Kit – Part Number 584885201*

**Step 4:**

Install the PTO cover bolts, and torque each bolt to (26 NM, 230 in-lbs).

Ensure the engine is level, refill with thirty-eight ounces (38 ounces) of engine oil as per the LCT Engines Service Manual guidelines. Please contact LCT engines at (800) 558-5402 for more information.

**Step 3:**

Remove the PTO cover, and the old PTO cover gasket, ensure to remove all residual gasket material from the crankcase gasket surface, and clean the gasket surface thoroughly.

Install the new PTO cover gasket, and PTO cover, using a crankshaft seal protector during installation of the new seal.

***Husqvarna Service Kit***

***Part Number: 584885201.***