

Ski Doo XM/XP/T3 Belt Drive Packing List

2817 City Center Circle - Billings, MT - 59101 - 406-850-8091

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___ Top Gear
Ratio _____

___ Spare Gear (if ordered)
Ratio _____

___ Top Gear Assembly

___ Tensioner Assembly

___ Bottom Gear

___ Bottom Gear Retainer

___ Hardware Kit

___ Belt

___ Spare Belt (if ordered)

___ Bottom CF Cover w/ speed sensor

___ Bottom Cover plastic spacer

___ Instructions



SkiDoo Belt Drive Installation Instructions

Step 1: Remove RH (throttle side) side cover. Remove exhaust can associated hardware. Unplug OEM speed sensor connector from sled harness (Near top of foot well).

Remove seven (7) chain case cover bolts from OEM case cover using 10 mm socket.



Step 2: Carefully pry the plastic speed sensor plug out of the lower driveshaft using a flat blade screwdriver or small pry bar. Be careful so as to not mar driveshaft splines.

Step 3: Remove snap ring from lower driveshaft using appropriate snap ring pliers.





On T3 models this portion of the running boards needs to be trimmed or bent.

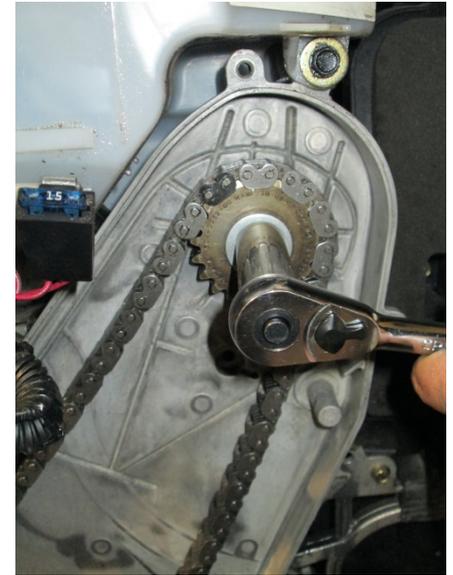


Use a large channel lock or like tool to roll the lip into the protective pan so bottom covers and gear will clear.

Step 4: Back OEM chain tensioner bolt out until it is flush with the inner surface of the chain case.



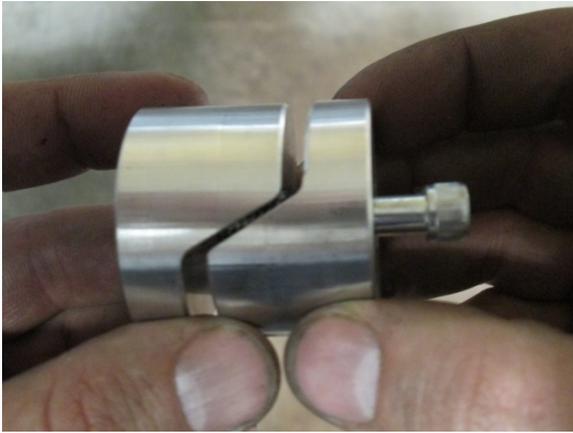
Step 5: Lock parking brake. Remove jackshaft gear retaining bolt (upper drive gear) using 15 or 16 mm socket. (Size depends on model year)



Step 6: Remove OEM gears and chain, and jackshaft spacer (top shaft). Thoroughly clean all residual oil from inner chain case face, shafts, etc. using Stoddard solvent, brake cleaner, etc.



Step 7: Locate the new lower pulley retainer from the kit (photo below). Back the 2 pre-installed ¼ - 20 bolts out and apply 1 drop of blue Loc-tite to each bolt.

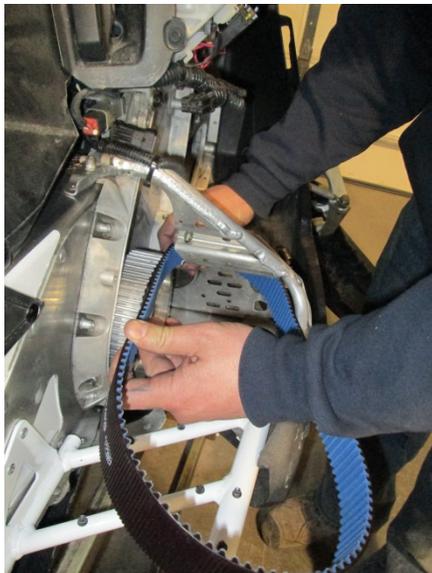


Step 8: Reinstall the ¼ - 20 bolts into lower pulley retainer finger tight. Install retainer assembly into lower driveshaft.

NOTE: DO NOT tighten retainer bolts at this time - Ensure that the retainer plug is approximately 3/8" deep into the driveshaft, and that the retainer bolts DO NOT protrude past the end of the driveshaft when fully tightened in Step 17!



Step 9: Lower gear splines will fit tight you may need to heat center hub for gear to slide on or you may need to use a dead blow hammer to tap gear on. Slide new pulley onto lower driveshaft. Insert new drive belt through foot well, position onto lower pulley, and onto upper jackshaft.



Step 10 : Install Carbon Fiber tensioner plate / tensioner assembly onto inner OEM chain case. Tensioner arm is installed onto OEM pivot boss. Loc-tite 3 bolts and tighten to 53 in/lb.



Step 11: Unlock Parking brake. Install upper pulley onto jackshaft, align belt cogs into pulleys, insert machined belt retaining flange into center bore of top pulley, and secure with OEM top gear retaining bolt and washer. Use Loc-tite on threads, and tighten to 30 ft/lb.



Step 12: Tighten lower driveshaft retainer cap screws to 16 ft/lb.

NOTE: Make sure cap screws DO NOT protrude past end of drive shaft!



Step 13: Install speed sensor washer with included cap screw. Loc-tite cap screw center bolt, insert into lower pulley retainer, and tighten to 30 ft/lb.



Step 14: Set belt tension.

Adjust belt tensioner with the OEM tensioner bolt to the point that the “feed side” (side towards rear of sled) of the belt has $\frac{1}{4}$ ” deflection with a “light” finger pressure. Tighten the 9/16 nut on the outside of tensioner. Nut only needs to be snug. DO NOT OVER-TIGHTEN!!



Step 15: Form the composite belt guard around the lip of the OEM chain case lip.



While holding composite belt guard in place, insert lower Carbon Fiber belt guard / speed sensor plate into position, and install retaining bolts.



Step 16: Plug speed sensor into OEM sled harness, replace exhaust components, and hardware, and reinstall side cover.