

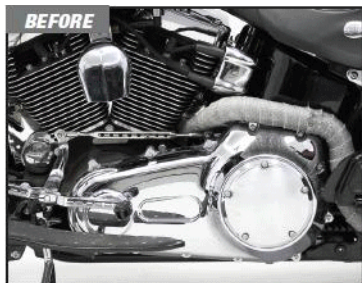
# BELT DRIVES, LTD. 2" Belt Drive

Story by Nate Kersjes  
Photos by Jesse B. Nelson

BDL's all-new design includes a 52-tooth front pulley and 69-tooth rear pulley that are both two inches wide and driven with their specially designed 142-tooth belt. Other features include a specially designed ring gear for easy starting and of course their Ball Bearing Lock-up Clutch provides positive engagement with minimal clutch pull. BDL finished the kit off with their unique side guard and rear pulley cover, both made from 6061 billet aluminum, precision machined and highly polished. This belt drive is available in four finishes: polished, black, clear anodized and chrome.



BDL 2" Belt Drive



This '07 Softail is going to get more blacked out with a BDL 2" Belt Drive.



1 Loosen and remove the passenger pad mounting hardware and pad.



2 Remove the seat mounting hardware and seat.

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3 Disconnect the negative battery cable.



4 Move the negative battery cable away from the post to prevent accidental connection.



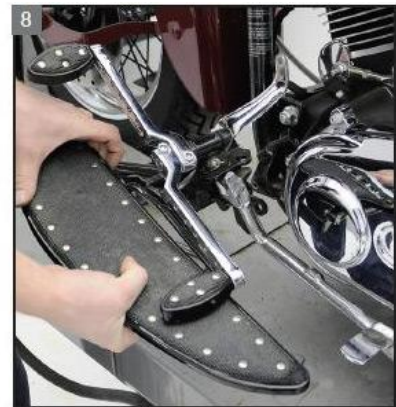
5 Loosen the shift linkage from the front shift arm.



6 Remove the shift linkage from the front shift arm.



7 Remove the engine guard hardware and the three footboard mounting bolts.



8 Remove the footboard and shifter assembly.



9 Remove the primary drain plug.



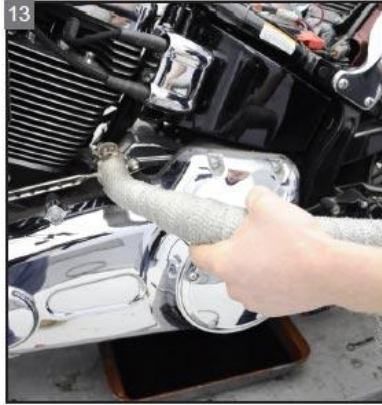
10 Remove the left-side saddlebag.



11 Remove the front exhaust hanger's mounting hardware.



12 Loosen and remove the muffer hanger's mounting hardware.



13 Remove the left-side exhaust assembly.



14 Remove the outer primary mounting hardware.



15 Remove the outer primary



16 Remove the clutch adjuster plate Snap ring.



17 Remove the clutch adjuster plate.





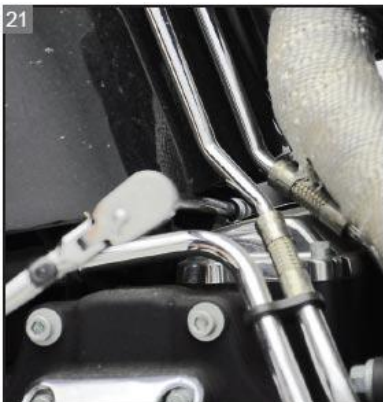
Remove the clutch hub nut (left-hand threads).



Remove the compensator bolt.



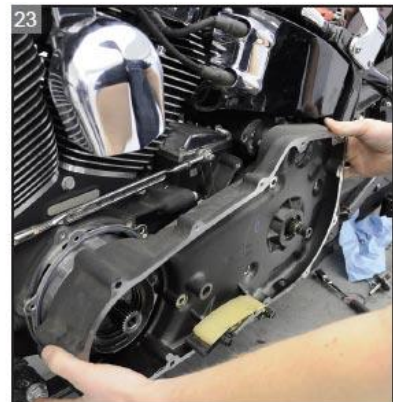
Remove the clutch and compensator assembly.



Loosen the starter bolts but leave them in the starter for easier installation later.



Remove the inner primary mounting bolts.



Remove the inner primary.

## **BELT DRIVES, LTD.**



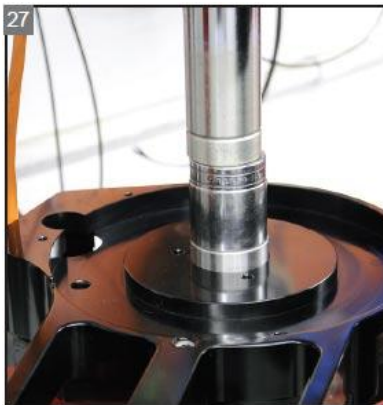
Slide the inner primary bearing race tool onto the race.



Pull the bearing race off of the mainshaft.



Align the sealed bearing with the BDL motor plate.



Press the sealed bearing into the BDL motor plate.



Install the bearing-retainer snap ring.



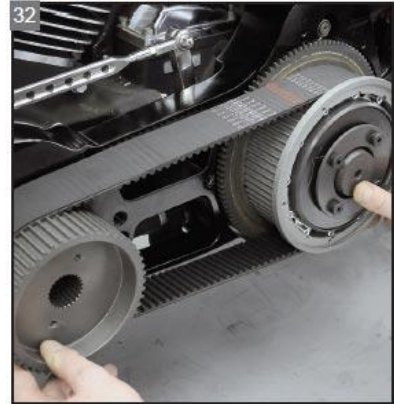
Install the motor plate onto the mainshaft.



30 Install the starter bolts into the motor plate.



31 Install and tighten the motor plate mounting hardware.



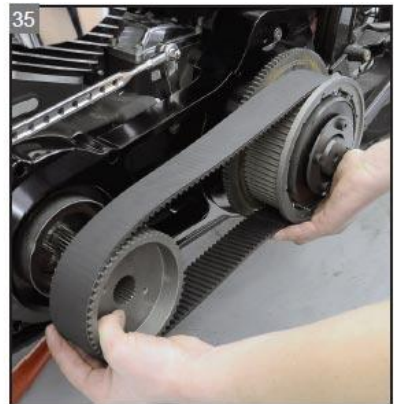
32 Install the clutch and front pulley to make sure they're aligned properly, then remove them.



33 Apply red Threadlocker to the mainshaft splines.



34 Apply red Threadlocker to the clutch hub splines.



35 Install the clutch and front pulley.



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Remove the pressure plate mounting hardware.



Remove the pressure plate.



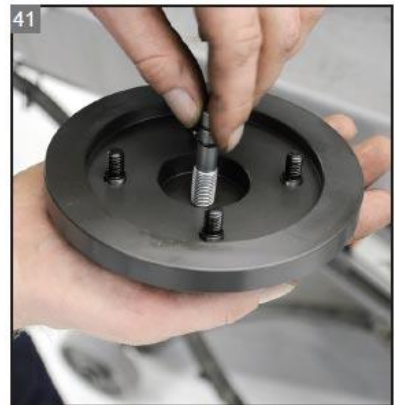
Install and torque the front pulley bolt.



Install and tighten the clutch nut (lefthand threads).



Loosen the clutch cable adjuster.



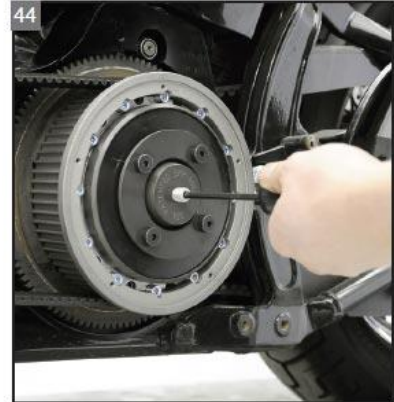
Install the clutch adjuster into the BDL pressure plate.



42 Install the pressure plate onto the clutch hub.



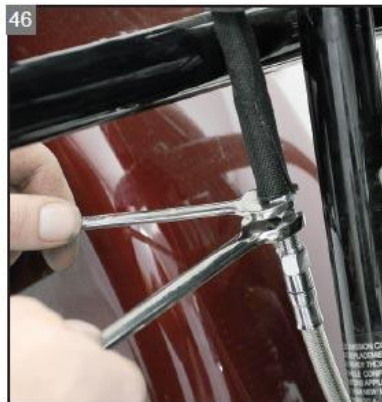
43 Evenly tighten the pressure plate hardware to the clutch hub.



44 Turn the clutch adjuster until pressure is felt, then turn it back a  $\frac{1}{4}$  to  $\frac{1}{2}$  turn.



45 Tighten the clutch adjuster's locking nut.



46 Adjust the clutch cable for the correct amount of free play.



47 Thread the set screw into the standoffs.





48 Install the standoffs into the motor plate. The relieved standoff goes in the rear, facing the motor plate.



49 Install the starter cover onto the motor plate.



50 Install and tighten the starter cover mounting hardware.



51 Install the clutch cover onto the clutch basket.



52 Install the clutch cover mounting hardware.



53 Install the front pulley cover onto the standoffs.



Tighten the cover's mounting hardware.



Install the left-side exhaust



Install and tighten the muffler hanger hardware.



Install the exhaust's front mounting hardware.



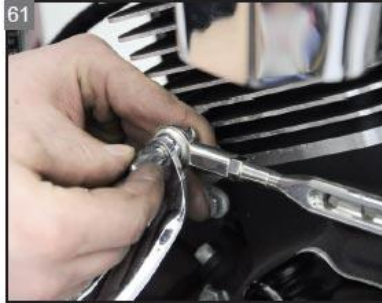
Align the footboard and shifter assembly with the frame.



Install the footboard bracket mounting bolts.



60 Install and tighten the engine guard mounting bolt.



61 Install the shift linkage mounting hardware.



62 Tighten the linkage hardware.



63 Install and tighten the negative battery cable.



64 Install the rider and passenger seats.



65 Install the left-side saddlebag.





This '07 Softail looks great with the new BDL 2" Belt Drive.