

# DNA TRIKE AXLE ASSEMBLY INSTRUCTIONS

Installation should be performed by a qualified mechanic, refer to service manual for all assembly, torque specifications, use Loctite on all fasteners.

1. Place motorcycle on a secure lift.
2. Disconnect battery.
3. Remove rear wheel (refer to service manual).
4. Disconnect shocks from swing arm.
5. Remove factory swing arm (refer to factory service manual).
6. Remove the primary cover and remove the drive belt, NOTE: A 139 tooth belt is required on FLH models.
7. Remove bearings from the stock swing arm and install into the DNA swing arm, NOTE: If the bearings or seals show any signs of damage or wear replace with new bearings.
8. Install the DNA swing arm into the frame and torque to factory specifications.
9. Separate the pulley guard from the DNA axle by removing the guard screws and install the belt. REF: Figure 1.
10. Reassemble the belt guard. (Use Loctite here).
11. Align the axle pinch blocks with the swing arm shafts.
12. Loosely assemble the swing arm shafts into the axle pinch blocks and install the pinch block bolts, leave loose.
13. Install the axle adjuster screws into the swing arm mounting plates.
14. Loosely install the belt onto the front pulley.
15. Align the belt with the front pulley by sliding the axle to the left or right, the belt must track in the center of the pulleys.
16. Tighten the axle adjusters to remove the belt slop, tighten the adjusters until the belt tension is between  $5/16''$  and  $3/8''$ . REF: Figure 2.
17. Tighten the pinch block bolts to 60ft lbs, use Loctite here.
18. Attach the shock bolts to the swing arm, NOTE: On FL models the shocks attach to the pinch blocks on the axle using the supplied brackets, welding is required. REF: Figure 3.
19. Weld the pinch blocks to the axle, NOTE: Make sure the calipers are facing straight up before welding, if not loosen the set screws on the belt guard and using a rubber mallet hit the belt guard until the belt cutout is in line with the belt and the calipers are straight up, tighten the set screws
20. NOTE: On FL models shock spacers are required, use a 1" spacer between the frame and the shock and a 2" spacer between the shock and axle mount.



Figure 1.

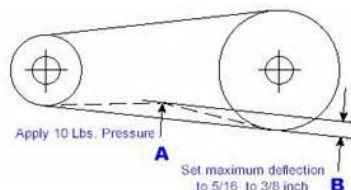


Figure 2.



Figure 3.