CS-34A Compensator Installation Instructions

Read all installation instructions first! Verify primary chain sprocket alignment using supplied washers / spacers before final installation. Refer to OEM Service Manual for removal and installation of stock primary drive components. Note* CS-34A is fully assembled with minimal amount of Anti-seize from the factory and must be disassembled completely before following these instructions.

- 1. Safely support and secure motorcycle.
- 2. Disconnect the battery as per service manual.
- 3. Drain primary fluid into pan.
- 4. Remove outer primary cover and gasket.



6. To assemble CS-34A apply a thin coat of Anti-seize to the sprocket carrier threads as needed. Apply a thin coat of assembly lube to the larger Nylatron washer and install washer over threads of sprocket carrier, to the face of the flange.



5. Remove existing sprocket or compensator. Primary chain and clutch basket if needed. Visibly mark primary chain to ensure same rotaion on sprockets.



7. Apply a thin coat of Anti-seize to the threads of the CS-34A sprocket. Note the recessed surfaces of the sprocket, the larger recess faces larger Nylatron washer and carrier body.



8. Thread sprocket onto carrier body until sprocket stops and locks against the washer and carrier body flange fully seating Nylatron washer into recess of sprocket. DO NOT PINCH NYLATRON WASHER BETWEEN FLANGE AND SPROCKET. This can / will cause compensator to operate incorrectly, and may cause compensator failure.



10. Apply a thin coat of assembly lube to the smaller Nylatron washer.

9. Install clutch basket and primary chain back onto motorcycle.



11. Fully seat smaller Nylatron washer into recess on CS-34A sprocket, then install outer flange. Align CS-34A assembly and outer flange with splines on sprocket shaft and install.



Note: DO NOT PINCH EITHER OF THE NYLATRON WASHERS BETWEEN SPROCKET, CARRIER BODY, AND THE OUTER FLANGE.



12. Install the "thin" then "thick" sprocket shaft bolt washers onto bolt. Install bolt using OEM recommended thread locker and torque to H-D specifications.



13. Install primary chain tensioner, clutch components, adjust clutch, install new primary cover gasket, outer cover, torque to H-D specifications, install drain plug and fill with H-D approved primary fluid. Any questions on reinstallation of H-D parts, refer to the OEM service manual.



Belt Drives Ltd. Patent # US 6,234,909

IMPORTANT NOTE FOR ALL 2007 - 2014 MODELS!!! YOU MUST USE THE SUPPLIED STEEL SPACER / SPACERS AS NEEDED FOR THE CORRECT PRIMARY CHAIN ALLIGNMENT, YOU ALSO MUST USE THE SUPPLIED 9/16-12 X 3.250 LONG HEX HEAD BOLT.

THE STEEL SPACERS GO BETWEEN THE STATOR ROTOR AND OUR CS-34A CARRIER BODY AND ASSEMBLY.

Belt Drives Ltd. www.beltdrives.com

CS-34A Compensator Sprocket Complete Parts List Breakdown



Bolt Washer "Thin"

SSB-3250, Sprocket Shaft Bolt, 9/16-12x3.250

SSBW-2, Sprocket Shaft Bolt Washer "Thick" CS-34A, OF-1, Outer Flange NW-100, Small Nylatron Washer NW-200, Large Nylatron Washer