

FEULING®

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MILWAUKEE EIGHT TENSIONER INSTRUCTIONS

IMPORTANT NOTICE

- This installation should be done by an experienced mechanic who has access to a factory service manual and all required tools.

CAUTION

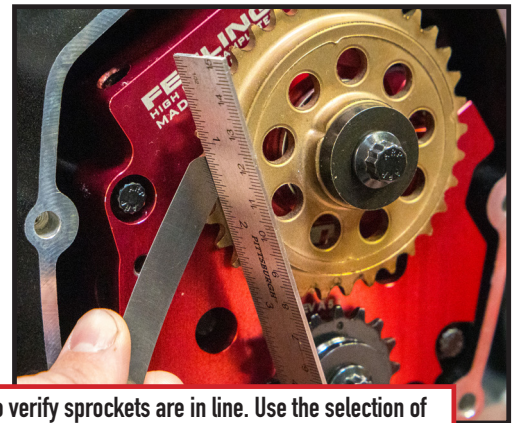
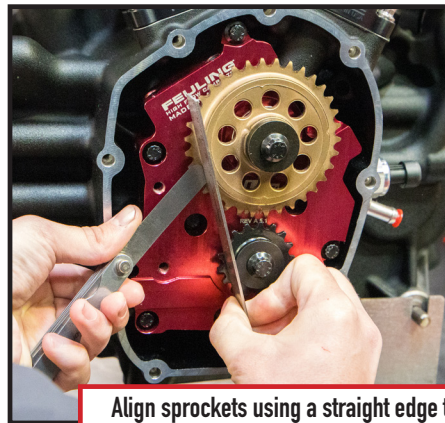
- Incorrect installation can cause premature tensioner pad wear and engine damage not covered under warranty. Failure to install components correctly can cause engine seizure. Engine seizure may result in serious injury to motorcycle, operator, passenger, and/or others.

- Improperly torqued bolts may result in oil leaks, distortion of components and engine failure.

NOTE: Excessive pinion shaft runout & or play can/will cause damage & or failure. Feuling recommends ideal end play at 0.003"–0.004", & crankshaft runout at or below 0.003", Feuling warranty does cover up to 0.005" combination of runout & bearing play, measure crank bearing play by lifting up on the tip of the pinion shaft.

INSTALLATION

1. Always refer to the HD® factory service manual for your model motorcycle.
2. Inspect cam chain and make sure it is free of burrs, if needed replace chain or use a stone to remove burrs.
3. Use assembly lube on all moving parts: tensioner pad, inner bore of tensioner housing, chain, cam, oil pump, bearings etc.
4. Make sure the tensioner pad and housing are installed square to the chain. If the housing and pad are not installed square it will cock the pad and create premature pad wear.
5. On installation make sure timing marks of sprockets are lined up correctly per your factory service manual.
6. Align outer cam and crank sprockets using the correct thickness cam sprocket spacer, use a straight edge to verify alignment and adjust the cam sprocket using the 'needed' spacer thickness.
7. Apply moly lube under head flange of bolts and red loctite to threads.
8. Install tensioner assembly square to chain. Do not install one bolt and rotate the assembly into place as this may cause the pad to cock in housing.
9. Torque tensioner fasteners to 120in/lbs.
10. Ensure tensioner pad moves freely in housing. Tensioner may not bottom out due to assembly lube/oil in housing.



Align sprockets using a straight edge to verify sprockets are in line. Use the selection of different thickness thrust washers to adjust cam sprocket spacing to match crank sprocket.

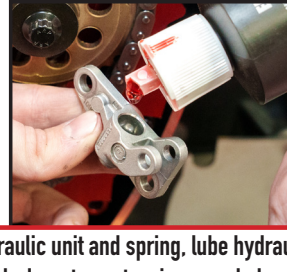
FOR #8070 PREMIUM PAD AND PIN REPLACEMENT USING FACTORY TENSIONER HOUSING



Remove factory pad from tensioner housing by removing tensioner pin with a punch or flat blade



Carefully remove hydraulic unit and spring, lube hydraulic unit port and replace spring and unit assembly. Insert new tensioner pad, depress pad to insert new pin.



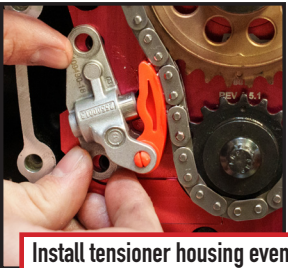
Insert new pin through tensioner housing and pad. Ensure pin is flush with backside of tensioner housing



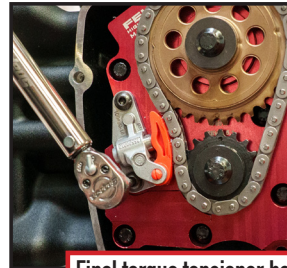
Apply molly lube to underhead of bolt flange. Apply red locsite to bolt threads



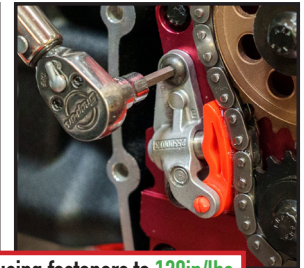
Lube tensioner pad with assembly lube



Install tensioner housing evenly to avoid misalignment, if the housing and pad are not installed square it will cock the pad and create premature pad wear. install top and bottom bolts evenly.



Final torque tensioner housing fasteners to 120in/lbs



FOR #8073 BILLET TENSIONER HOUSING AND PREMIUM PAD



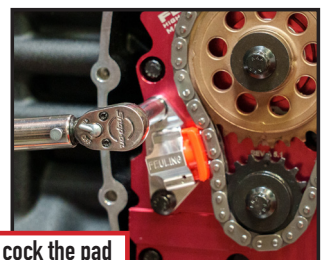
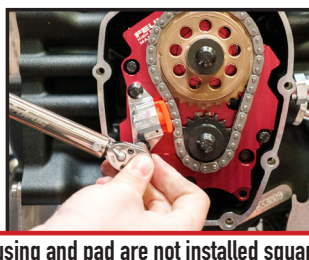
Remove Hydraulic unit and pad from billet housing. Lube tensioner housing port and pad then reinstall



Apply molly lube to the underhead flange of bolt head. Apply red locsite to bolt threads



Install tensioner housing evenly to avoid misalignment, if the housing and pad are not installed square it will cock the pad and create premature pad wear. install top and bottom bolts evenly. Final torque tensioner housing fasteners to 120in/lbs



* STANDARD 1 YEAR WARRANTY:

- WARRANTY COVERS MANUFACTURE DEFECTS.
- DOES NOT COVER PARTS THAT HAVE FAILED DUE TO IMPROPER INSTALLATION, MAINTENANCE, EXCESSIVE CRANKSHAFT RUNOUT, OR MISUSE.
- DOES NOT COVER ANY CONSEQUENTIAL DAMAGE RESULTING FROM A FAILURE OF A FEULING PRODUCT.

* OPTIONAL 2 YEAR WARRANTY:

- ADDITIONAL YEAR WARRANTY IS ONLY AVAILABLE IF PARTS ARE INSTALLED BY A PROFESSIONAL INSTALLER.
- THE ONLINE WARRANTY FORM MUST BE COMPLETED BY THE DEALER PRIOR TO BIKE DELIVERY.
- OIL TANK MUST BE DROPPED & CLEANED.
- CRANKSHAFT RUNOUT MUST BE BELOW 0.005"

NOTE: FOR FULL WARRANTY INFORMATION VISIT WWW.FEULINGPARTS.COM/WARRANTY

