



## NHTSA SAFETY RECALL

### PIVOT BOLT REPLACEMENT

**MODELS:** All 2005 Bulldog, N-Chopper units and Mastiff; 2006 N-Chopper and Mastiff units manufactured before April 12, 2006.

**SYMPTOM:** Right side, long pivot bolts are bending and may break.

**CORRECTIVE ACTION:** Replace the long, right side pivot bolt. Straighten frame side plates if needed. If the long, right side pivot bolt is broken, replace the short, left side pivot bolt and pivot shaft.

**IMPORTANT!** T-Chopper models are not included in this Recall. Callout references (#) are from the *2006 Big Dog Motorcycles Service Manual*.

#### PROCEDURE:

##### SWINGARM REMOVAL

Support motorcycle in an upright position with the rear end completely suspended.

Remove the exhaust system (see *Service Manual*).

Remove the right side pivot shaft screw (3) and pivot axle (5).

**IMPORTANT:** If the long, right side pivot bolt BDM130-00816 is **broken**, order and replace the short, left side pivot bolt BDM130-00817 and pivot shaft BDM130-00828 at the same time the long, right side pivot bolt is replaced.

##### INSPECT AND REPAIR

###### CHECK SIDE PLATES

**IMPORTANT!** The pivot shaft must be installed with the pivot axle cap to the **left** side of the frame. If the pivot shaft is not installed with the adjuster to the left side of the swingarm, remove pivot shaft and install with the adjuster to the left side of the swingarm.

Use the *Alignment Check Tool* (260-000068-00) and verify that the side plates are square by installing the alignment rod through the right side pivot bolt hole, through the right side spherical bearing and into the left side spherical bearing opening. If not aligned, use the *Straightening Tool* (261-000003-00) and *Pin* (240-000254-00) from the *Frame Alignment and Straightening Tools Kit* (263-000008-00) to adjust the right side plate as needed.

If the long, right side pivot bolt is broken and a new left side, short pivot bolt is required, remove and replace **after** the side plate is straightened and the new right side pivot bolt has been loosely installed.

**IMPORTANT!** A second person will be needed to secure the bike during the straightening process.

##### INSTALLATION

Apply anti-seize to the pivot shaft screw (3) frame adjuster and pivot axle cap.

**IMPORTANT!** The pivot shaft must be installed with the adjuster to the **left** side of the frame. With the pivot shaft screws loosely installed, adjust the pivot shaft until it makes contact with both bearings. Position the frame adjuster until the swingarm is pushed against the spacer on the left side. Both adjusters should be **hand tightened only**.

Install the pivot shaft spacer (7) between the left side swingarm and frame side plates. Install the pivot screws and torque to 100 ft•lbs.

Do not allow the pivot shaft to rotate while tightening the swingarm screws. All other installation is the reverse of removal.

Install the exhaust system.

##### REAR WHEEL ALIGNMENT AND BELT TENSION ADJUSTMENT

Place motorcycle on a suitable lift.

Remove both rear axle covers and the setscrews securing the rear axle adjusting screws.

Loosen the rear axle nut.

Place the appropriate 90° end of the **Rear Axle Alignment Tool** (263-000005-00) into the center of the swingarm pivot shaft. The appropriate end will be perpendicular to the pivot shaft and rear axle. Never measure on an angle.

Turn the axle adjusters until the measurements between the center of the swingarm pivot shaft and the center of the rear axle are equal on both sides of the motorcycle.

Adjust belt tension to **3/16"** deflection using **Belt Tension Tool** (BDM260-00069) (intended rider weight not required).

Torque the rear axle to 55-65 ft•lbs and verify alignment.

Apply Loctite 2440 to the threads of the axle adjuster set screws and install.

Install axle covers.

Enter a Warranty Claim for this procedure through AWS. Use Labor Op R06V-XXX.

If further assistance is needed, contact Big Dog Motorcycles Technical Support at 316-219-7000.