

SERVICE BULLETIN

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Subject: STARTER MOTOR

Description: SERVICING BENDIX DRIVE

A. The Folo-Thru type of drive requires periodic lubrication (at 5000 mile intervals) for proper operation. However, the application of any lubricant prior to the first 5000 miles of operation is not recommended.

This periodic lubrication should be accomplished as follows:

1. Turn ignition key on and off quickly so that the drive will be in the engaged position without starting engine.
2. Apply a few drops of SAE 10W oil through the 3/16" lubrication hole in the pinion housing of the starter.

Note: By placing the drive in the engaged position, the screwshaft on the drive will be directly under the lubrication hole. If the drive is not in the engaged position, the screwshaft - which is the part to be lubricated - will be covered by the pinion barrel.

B. Cleaning and relubrication of the Folo-Thru drive should be accomplished after 30,000 miles of operation. This is required to remove excessive amounts of oil, grease and dirt - which may have accumulated - from the screwshaft threads and armature shaft. It is important to remove this surplus material since it retards normal meshing action, particularly in cold weather.

Cleaning and relubrication is suggested as follows:

1. Remove starter motor from engine.
2. Remove starter motor pinion housing.
3. With drive in demeshed position, clean armature shaft ahead of pinion gear. Use emery cloth if necessary. Clean shaft, then apply a few drops of SAE 10W oil.
4. Rotate pinion and barrel assembly to fully extended position and clean exposed screwshaft threads. Clean with kerosene, using a cloth or small brush. Tilt the starter motor so that a little of the kerosene will run under the control nut (rear of pinion barrel).

Note: Do not dip or wash entire drive in any cleaning solution or gasoline, as this will remove the necessary lubricant under the screwshaft.

5. Lubricate screwshaft with a few drops of SAE 10W oil.
6. Lubricate the head thrust washer. In order to lubricate this part, spread the heavy spring coils of the drive with a screwdriver, and apply a little oil or grease.

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7. Replace starter motor pinion housing.
8. Install starter on engine with drive in the extended position and carefully mesh drive pinion with flywheel ring gear before tightening the mounting bolts.

When engine is started, the drive pinion will automatically demesh from the ring gear.

Any restrictions to the free movement of the drive will ultimately result in damage to the ring gear.

Failures of the drive assembly and ring gear are primarily caused by:

1. Improper lubrication or dirt on screwshaft and armature shaft.
2. Engaging starter before coming to rest from previous starting attempt.
3. Engaging starter while engine is running or flywheel still rocking.
4. Excessive demesh caused by improper starter motor alignment or worn ring gear teeth.

BY: NEW YORK SERVICE DEPARTMENT