Customer Service Bulletin
Commercial Business Group

Groundsmaster® 580-D Series

January 29, 2002

Model/Serial Range:	Model Numbers:	Serial Numbers:
	30580	00000-70999
	30581	80101-220000101

Subject: Proper Drive Shaft greasing procedures.

The drive shaft located between the engine and the transmission requires lubrication every 50 hours. Proper application of grease to the universal joint is essential in preventing premature drive shaft failure. Lack of lubrication to the universal joint bearings will cause failure of the drive shaft and damage to surround components (i.e. oil cooler and or radiator). For added protection, Drive Shaft Guard can be added.

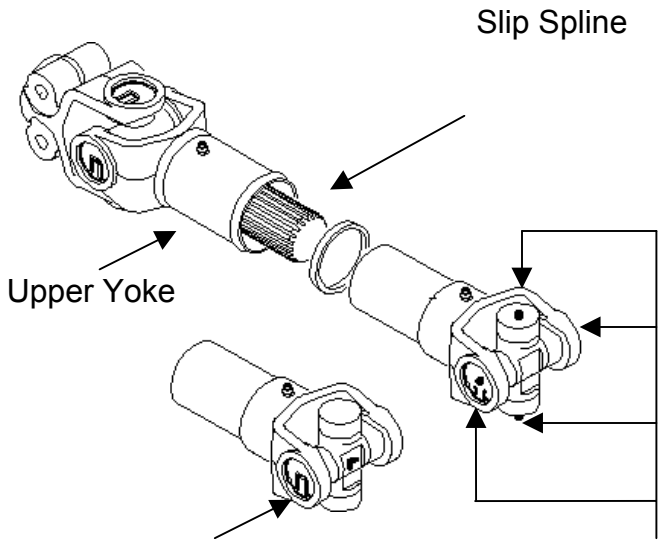
Proper procedures are outlined below.

Lubrication Procedures for Universal Joints

1. Always use a hand grease gun when greasing. The high volume of grease from a Pneumatic Grease Gun can cause damage to the universal joint seals.
2. Use #2 EP General Purpose Lithium Base Grease.
3. Grease each universal joint until **ALL FOUR SEALS ARE PURGED.** Purging the grease cavity flushes moisture and abrasive contaminants from each bearing assembly and ensures all four cavities are properly lubricated.
4. If a seal fails to purge, move the drive shaft side-to-side while applying pressure. This allows greater clearance on the thrust end of the bearing assembly. On the cup mounted design (4 grease fittings), try greasing from the opposite grease fitting if a seal will not purge.

Lubrication for Slip Spline

1. Always use a hand grease gun when greasing. A Pneumatic Grease Gun can cause damage to the seal and drive shaft Relief Plug when purging the spline seal.
2. Use #2 EP General Purpose Lithium Base Grease.
3. Apply grease gun pressure to the fitting until lubricant appears at the base of the upper yoke on the drive shaft.



DRIVE SHAFT GUARD INSTALLATION PROCEDURE

For Groundsmaster 580-D

1. Remove ignition key from ignition switch.
2. Set parking brake.
3. Jack up the machine so the tires are just off the ground. Use jack stands to secure the vehicle and prevent personal injury.
4. Loosen the two (2) ½"-13 x 2.0" bolts that secure the transmission to the Center Frame Support approximately ¼".
5. Place the Drive Shaft Guard behind the bolts that were loosened in Step 4 as shown below.
6. Torque the bolts to 70 ft-lb (95 Nm).
7. Lubricate Drive Shaft Universal Joints per attached procedure.
8. Lower machine to the ground.
9. Check operation of the equipment