

Description of Revisions: *This bulletin replaces the previous version dated October 1997. The list of affected vehicles has been clarified to include vehicles built from August 15, 1997 through July 9, 1998, with engines rated 500 horsepower or greater, and equipped with certain Horton fan drives.*

General Information

Horton fan clutches with 32-inch 9-blade fans deliver extra cooling power. Therefore, more torque is required from the fan clutch. If a vehicle is dyno tested or otherwise subjected to extended fan-on times early in its service life, the clutch lining may not be broken in properly, leaving it susceptible to slippage. This slippage can create heat, resulting in a blown Horton System Sentry plug.

As of July 10, 1998, all production plants have been installing Horton fan clutches with a sintered clutch lining on engines rated at 500 horsepower or greater. See **Fig. 1**. This lining is better suited to handle the increased torque from the 32-inch fan.

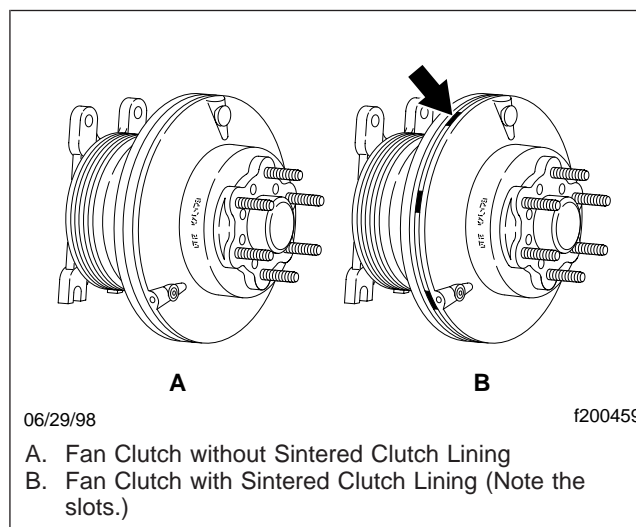


Fig. 1, Horton Fan Clutches

Vehicles built before July 10, 1998 with engines rated at 500 horsepower or greater, and with the following Horton fan drives, may have problems with clutch slippage:

- HOR 981143
- HOR 981145
- HOR 981146
- HOR 981197
- HOR 981365

If the System Sentry plug blows or there are other signs of excessive fan clutch heat or slippage, first check for correct fan control operation and air leaks. If all checks okay, install the sintered clutch lining. For instructions, see *Group 20* of the **Heavy-Duty Trucks Service Manual**, the **Business Class Trucks Service Manual**, or the **Century Class Trucks Workshop Manual** for fan clutch disassembly and assembly. In addition to the sintered lining, a seal kit will also be required for reassembly. See **Table 1** for parts needed.

Parts Required

Parts are available through the PDCs.

Parts Required		
Description	Part Number	Qty.
Sintered Clutch Lining	EA HOR 994319	1
Seal Kit	EA HOR 994205	1

Table 1, Parts Required

Warranty

Normal warranty applies. When submitting claims, reference this service bulletin by number in the story of the claim. Use the following damage code and Time Guide information.

NOTE: The times for SRT code 273–5010A in [Table 2](#) vary depending on vehicle model and engine installation. Use the vehicle/engine information in [Table 3](#) for the correct repair time.

Damage Code	Operation Number	Description
273–002A09647	273–5010A	Fan Clutch Assembly Modification

Table 2, Damage Code and Time Guide Information

Standard Repair Time by Vehicle and Engine Type			
Vehicle	Engine Type		
	Cummins	Detroit Diesel	Caterpillar
Century Class	1.7 hours	1.7 hours	2.5 hours
Business Class	1.7 hours	1.7 hours	1.7 hours
FLD 120	1.7 hours	1.7 hours	2.5 hours
FLD 112	1.7 hours	1.7 hours	3.2 hours
FLB COE	1.7 hours	1.7 hours	3.2 hours
FLC 112	1.7 hours	1.7 hours	2.5 hours

Table 3, SRT by Vehicle and Engine Type