

**SB-10049579-3996**



<b>Countries:</b>	CANADA, UNITED STATES, MEXICO	<b>Document ID:</b>	IK0900075
<b>Availability:</b>	ISIS	<b>Revision:</b>	1
<b>Major System:</b>	COOLING	<b>Created:</b>	11/19/2012
<b>Current Language:</b>	English	<b>Last Modified:</b>	12/10/2012
<b>Other Languages:</b>	NONE	<b>Author:</b>	Thomas Hoffmeister
<b>Viewed:</b>	348		

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Coding Information

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**Title: Horton Stratis Fan Hub Diagnostics**

**Applies To: Prostar, LoneStar, TranStar, IBB**

**DESCRIPTION**

Horton 12 THX VMaster Ultra (Stratis ) Viscous Fan Drive Troubleshooting Guide

**Normal Operation**

Horton VMaster is a variable speed drive. It does not function like an on - off. drive. Even when the drive is off, the fan will spin between 50 -300 rpm.

When drive is commanded off by ECU, fan speed should be 50 to 300 rpm.

When drive is commanded on by ECU, fan speed should be approximately 125% of the engine speed.

*Example: At 2100 engine rpm x 1.25 fan drive ratio, the fully engaged fan speed should be approximately between 2490 and 2600 rpm.*

After first start of the day (A/C in off position), time for fan to disengage

Warm truck (A/C in off position)

At high idle (2100 engine rpm), disengagement occurs approximately 20 seconds after disengagement command.

At low idle (600 engine rpm), disengagement occurs approximately 25 to 30 minutes after disengagement command.

Caution:this fan clutch has left hand threads.

**TROUBLESHOOTING**

1. For the complete diagnostic form [Click Here](#)

**RELATED DOCUMENTS**

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- [MaxxForce 11 and 13 Fan Clutch Removal Instructions](#)
- [MaxxForce 11 & 13 Horton Stratis Fan Hub Wiring Harness Re-Route Procedure](#)



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