











# 2006 Snowmobile Technical Update

## All RS/VK10- Models, Digital Gauge Self Diagnostic Warning Patterns

Item	Description	Warning Light Pattern
Warning Bulb + CDI Unit Check	<b>Condition:</b> Engine start-up. <b>Warning Display:</b> The tachometer needle sweeps once, all segments of the LCD and indicator lights except the high beam indicator turn on and off one time.	
Coolant Overheat	<b>Condition:</b> Coolant temperature reaches 212° F (100° C) or higher. <b>Warning Display:</b> The warning light and temperature symbol stay on constant.	
Fuel Level Sensor and Circuit	<b>Condition:</b> Fuel level sensor or circuit problem. <b>Warning Display:</b> The warning light, fuel icon and LCD fuel level indicator flash constantly in a short pattern.	
Throttle Position Sensor and Circuit	<b>Condition:</b> Throttle position sensor or circuit problem. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "15" every 2 seconds.	
Throttle Position Sensor	<b>Condition:</b> Throttle position sensor stuck. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "16" every 2 seconds.	
Coolant Temperature Sensor and Circuit	<b>Condition:</b> Coolant temperature sensor or circuit problem. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "21" every 2 seconds.	
Speed Sensor	<b>Condition:</b> Speed sensor or circuit problem. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "42" every 2 seconds.	
Power Source Voltage	<b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "46" every 2 seconds.	
Grip Warmer Switch and Circuit	<b>Condition:</b> Grip warmer switch or circuit problem. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "80" every 2 seconds.	

## All RS/VK10 Models, Digital Gauge Self Diagnostic Warning Patterns (Continued)

Item	Description	Warning Light Pattern
Grip Warmer and Circuit	<b>Condition:</b> Grip warmer or circuit problem. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "81" every 2 seconds.	  81
Thumb Warmer Switch and Circuit	<b>Condition:</b> Thumb warmer switch or circuit problem. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "82" every 2 seconds.	  82
Thumb Warmer and Circuit	<b>Condition:</b> Thumb warmer or circuit problem. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo/trip meters will flash between the current mileage reading and the number "83" every 2 seconds.	  83
TORS System Activated	<b>Condition:</b> TORS system has been activated. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo / trip meters will flash between the current mileage reading and the number "84" every 2 seconds.	  84
Cold Engine Protection Rev Limiter Activated	<b>Condition:</b> Rev limiter is being activated by the cold engine protection system during engine warm-up when coolant temp is below 32°F / 0C. <b>Warning Display:</b> The warning light and engine icon will flash in a repeating two short - long pause pattern. The odo / trip meters will flash between the current mileage reading and the number "86" every 2 seconds.	  86
No Signal Received from CDI	<b>Condition:</b> Open or short circuit in yellow / black wire. Malfunction in meter. Malfunction in CDI. <b>Warning Display:</b> The odo/trip meters will flash "ER_1" repeatedly in a 2 seconds on / 2 seconds off pattern.	Er_1
No signal received from CDI within specified duration.	<b>Condition:</b> Improper connection in headlight harness. Malfunction in meter. Malfunction in CDI. <b>Warning Display:</b> The odo/trip meters will flash "ER_2" repeatedly in a 2 seconds on / 2 seconds off pattern.	Er_2
Signal from CDI not received correctly	<b>Condition:</b> Improper connection in headlight harness. Malfunction in meter. Malfunction in CDI. <b>Warning Display:</b> The odo/trip meters will flash "ER_3" repeatedly in a 2 seconds on / 2 seconds off pattern.	Er_3
Incorrect signal has been received from CDI.	<b>Condition:</b> Improper connection in headlight harness. Malfunction in meter. Malfunction in CDI. <b>Warning Display:</b> The odo/trip meters will flash "ER_4" repeatedly in a 2 seconds on / 2 seconds off pattern.	Er_4