



Volvo SNV 14-033 Design and Function of Warm Hold Feature



> **Internal Content**

Refer to [SNV14-033](#) for further information on Warm Hold function.



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To: U.S. and Canada Volvo General Managers
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Replaces: NA
Action Required? **No**

From: Greg Holderfield – Director, Product Reliability

Subject: Design and Function of Warm Hold

In the event of complaints of low cab heat in cold ambient weather conditions while running an engine for extended periods of time, the issue may simply be driver habits and do not indicate that an issue is present. Updates to the current Operator's Handbook are being implemented to explain more clearly how the engine management system operates. The following information will be included in the new publications. Should there be complaints or questions, this information can be supplied to customers for their reference.

Overview

This letter will cover Engine Warm Up and Extended Idling guidelines during cold weather. Following these guidelines will ensure proper engine and aftertreatment operation.

Engine Warm Up

When starting a cold engine, or if the vehicle has been parked and the engine coolant has fallen well below normal operating temperature, the engine should be gradually brought up to temperature before operating at high speed or full load. Engine warm up should be carried out at low idle speed with the parking brake set. Low idle speed is sufficient for warming up the engine. There is no benefit to using a raised engine idle speed for engine warm up as the engine software is designed to warm up the engine quickly during this period. Allow 10 minutes of idle time before departing if possible, and only operate at partial load until the coolant temperature reaches 170°F (75°C).

Extended Idling

Extended idling performed on vehicles equipped with an exhaust aftertreatment system should be carried out at low idle speed with the parking brake set. There is no benefit to using a raised engine idle speed for extended idling with the exception of when PTO is required to perform the application's normal functions. Utilizing an engine speed above 1300 rpm is recommended for vehicles which perform extended idling with an active PTO.