



MAINTENANCE INFORMATION

MI16-06

DATE :	FEBRUARY 2016	SECTION: 07 - TRANSMISSION
SUBJECT :	New Auto Engine Brake	

APPLICATION

Model	VIN
X3-45 coaches Model Year : 2016 and up	From 2PCG33492 <u>G</u> C73 <u>6019</u>
X3-45 VIP motorhomes Model Year : 2016 and up	From 2PCBS3492 <u>G</u> C73 <u>6017</u>
X3-45 VIP commercial use Model Year : 2016 and up	From 2PCC33492 <u>G</u> C73 <u>6018</u>
H3-41, H3-45 coaches Model Year : 2016 and up	From 2PCH33491 <u>G</u> C71 <u>3190</u>
H3-45 VIP motorhomes Model Year : 2016 and up	From 2PCV33491 <u>G</u> C71 <u>3189</u>

DESCRIPTION

Volvo Engine Brake (VEB) with Automatic control mode

A new Automatic control mode is now available on Prevost vehicles equipped with the Volvo Engine Brake (VEB),

When running in AUTO (A) mode (which is the default mode set at vehicle start-up), the engine brake is gradually applied to 100% brake power when the driver *pushes the brake pedal*. Since AUTO (A) mode will not reduce vehicle momentum unless the brakes are applied, it will have no impact on fuel consumption.

The driver can also choose two other modes using the steering wheel switches; Engine brake LOW (1) and engine brake HIGH (2).

When set to the engine brake LOW (1) mode, 50% of the engine brake power will be applied when the driver *releases the accelerator pedal*. Using engine brake HIGH (2) will apply 100% of the braking power.

It must be noted that since engine brake LOW (1) and engine brake HIGH (2) will reduce vehicle speed upon release of the throttle pedal, they may negatively impact fuel consumption if used for extended periods of time.

NOTE











On vehicles equipped with an optional engine brake switch, it is possible to deactivate the engine brake (OFF mode). To do so, the driver must press the engine brake switch located on the left side of the dashboard.

To reactivate the AUTO (A) mode, the switch must be pressed again (cycling of the ignition switch would have the same effect). The driver can also directly switch from the OFF mode to the engine brake LOW (1) or HIGH (2) mode using the steering wheel.

NOTE

When using engine brake LOW (1) or HIGH (2) mode, pressing the steering switch OFF button will switch back to the default AUTO (A) mode.

DRIVER PEDALS	ENGINE BRAKE MODE	ENGINE BRAKE FORCE
<p>ANY POSITION</p>	 With engine brake switch	0%
<p>ACCELERATOR PEDAL RELEASED</p> 		0%
<p>BRAKE PEDAL PUSHED</p> 		100%
<p>ACCELERATOR PEDAL RELEASED</p> 		50%
		100%






ENGINE BRAKE FORCE APPLIED VS SELECTED MODE AND DRIVER PEDAL POSITION.

NOTE

Engine brake is safe to use in any road conditions including adverse conditions.

Cruise control and engine brake

When cruise control is enabled by the driver, the engine brake mode is forced to AUTO (A) mode and the engine brake will progressively engage up to 100% if the selected cruise speed is exceeded by approximately 2 Km/h (1.25 mph). Manually switching to engine brake LOW (1) or HIGH (2) using the steering switches will deactivate the cruise control.

CRUISE CONTROL & SPEED	ENGINE BRAKE MODE	ENGINE BRAKE FORCE
 + CRUISE SPEED SET + 2 Km/h	 With engine brake switch	0%
		UP TO 100%
		N/A
		N/A

ENGINE BRAKE FORCE APPLIED WITH CRUISE CONTROL

NOTE

On vehicles equipped with the Allison transmission, if cruise control is enabled, the current engine brake mode is saved in the vehicle computer (MCM) memory and the engine brake mode is set to AUTO mode (A). When the cruise control is disabled, the engine brake mode changes back to the mode saved in the MCM memory.



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