



PRODUCT SUPPORT.....SERVICE NEWS

BULLETIN NO.: 2003-007	DATE: Sept. 15, 2003	PAGE: 1 of 1
TITLE: Use No Ether for 50~90ZV	RELEASE: Dealer/Customer	
SECTION: Power	MODEL: 50~90ZV	

GENERAL:

The purpose of this document is to make all service technicians aware that models 50~90ZV are equipped with intake air heaters for cold starting and these models require no ether to start the engines. A warning is posted by the engine air intake, and at the intake manifold area of engine to prevent a mistaken use of ether as a starting aid.

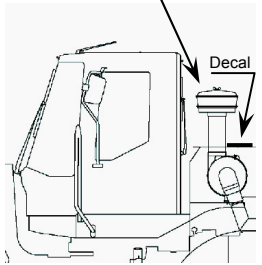
⚠ WARNING	
EXPLOSION HAZARD!	
<p>NEVER USE ETHER OR OTHER FLAMMABLE SUBSTANCES TO START 50~90ZV ENGINES. ENGINES ARE EQUIPPED WITH ELECTRIC HEATER STARTING AIDS. USE OF ETHER COULD CAUSE EXPLOSION AND COULD RESULT IN DEATH OR SERIOUS INJURY.</p>	

DETAIL:

As shown in the illustration below, these engines are equipped with heaters that assist the engine in starting without the need for starting fluids.

Illustration of decal found at air intake precleaner.

90ZV shown. Precleaner is optional for some models.



⚠ WARNING
<p>DO NOT USE ETHER. THIS ENGINE EQUIPPED WITH ELECTRIC HEATER STARTING AID. USE OF ETHER COULD CAUSE EXPLOSION AND COULD RESULT IN DEATH OR SERIOUS INJURY.</p>
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Photograph of grid heater located at intake for Cummins QSB5.9 engine in a 70ZV loader.

