



# 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.

<b>! WARNING</b>	
<b>EXPLOSION HAZARD!</b>	
<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.

<p>Illustration of decal found at air intake precleaner.</p>	<b>! WARNING</b>
<p>90ZV shown. Precleaner is optional for some models.</p>	
	<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>
	44787-23780

<p>Photograph of grid heater located at intake for Cummins QSB5.9 engine in a 70ZV loader.</p>