

# ENGINE BLOCK HEATERS

**Zero**start®

Provides direct heat to the engine coolant or block, designed and tested for individual engine applications.

## BENEFITS

- Ensure quick winter starts
- Reduce engine wear
- Engine coolant heater
- OEM factory installed in many applications
- Plated steel adapter
- Replacement cordsets available

## WHERE TO USE

- Automotive
- Heavy Duty Truck
- Agricultural
- Industrial
- Construction
- Mining
- Forestry



EXCEPT WHERE NOTED

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**PHILLIPS & TEMRO**  
industries®

# ENGINE BLOCK HEATERS – 4 TYPES

## FREEZE PLUG (V-LOCK)

Fits directly into a frost plug port

- Plated stamped steel & forged brass adapters
- Copper heating element for maximum life and efficiency
- V-LOC™ locking system provides quick, secure installation



Position Open



Position Lock

## THREADED

Plated steel threaded adapter with copper element.  
Threads directly into the engine block.



## PLATE/BOLT-ON

Plate mounts to engine block with copper heating element.

- Plated steel adapter & plate
- Copper heating element maximizes heat transfer



## CARTRIDGE

Heater is placed directly into a dry cavity of the engine block.  
Quick installation – no need to drain the engine coolant.

