

# International<sup>®</sup> A26 (2022)

Overview: *Hydrocarbon Desorb*

# TABLE OF CONTENTS

General Overview: Hydrocarbon Desorb (HC)..... 1  
Description and Operation..... 1  
Programmable Parameter ..... 1  
Frequently Asked Questions ..... 2  
Definitions/Acronyms ..... 2

## General Overview: Hydrocarbon Desorb (HC)

HC desorb maintains desired exhaust temperature to help meet emission requirements and enhance engine performance.

## Description and Operation

### Description

*NOTE: Refer to the vehicle operation and maintenance manual, as well as the A26 engine operation and maintenance manual, for additional information on operation and indications.*

During long periods of low idle (8-10hrs of continuous idle) unburnt hydrocarbon can accumulate in the after-treatment system. If too much is accumulated, the vehicle may briefly emit some white smoke (HC smoke) when it is driven. The HC Desorb function engages automatically to clear these hydrocarbons out, before there is too much accumulation present.

### Operation

Engine speed will increase or decrease to maintain a desired exhaust temperature to optimize emissions.

The system shall permit desorb when the engine is warm, there are no active system faults, there is no driver interaction, the DOC inlet temperature is low, the AESC is not active (based on parameter programming), and the engine is running.

## Programmable Parameter

The following programmable parameter is available and should be programmed to control how the HC Desorb interacts with AESC.

Parameters indicated as Customer Programmable can be adjusted differently than the production assembly plant setting to meet the customer's needs. If the parameter is indicated as non-customer programmable, the parameter setting is preset from the factory and can't be changed without dealer authorization.

### HC Desorb Parameter

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
AESC State to inhibit HC Desorb (A802 001)	Hydrocarbon DeSorb will increase engine speed, when stationary, attempting to keep the engine exhaust at a temperature that will improve emissions. This may not be desirable for some operation and HC Desorb should be disabled.	- Inhibit DeSorb when AESC is controlling engine speed - Inhibit DeSorb when AESC is in standby or controlling engine speed	YES	Enabled

## Frequently Asked Questions

None

## Definitions/Acronyms

The following term is referenced in this document:

Acronym	Definition
AESC	Auxiliary Engine Speed Control
AIT	Air Inlet Temperature
APP	Accelerator Pedal Position
ECT	Engine Coolant Temperature
HC	Hydro Carbon Desorb
PTO	Power Take Off
DOC	Diesel Oxidation Catalyst