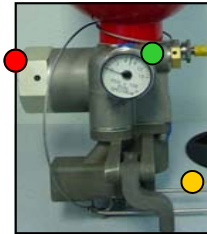


INTRODUCTION

- The vehicle you are riding in is equipped with a Kidde Dual Spectrum Automatic Fire & Explosion Suppression System (AFES).
- This Manual will give you a brief description of the system, its operation, the effects on both crew and vehicle, and how you should respond in case of emergency.
- The purpose of this system is to monitor the protected spaces and provide a visual warning to the operator. In the event of fire or explosion, the system provides automatic activation of the suppression system.

NOTE: If the system alarms and the suppression system discharges, the vehicle must be returned to maintenance. The system must then be reset and the discharged fire extinguisher removed and replaced with a newly charged extinguisher.

SAFETY



- AFES OPERATIONAL PRESSURE :**
Operational Pressure is temperature dependant.
INSPECT FOR ADEQUATE SYSTEM PRESSURE

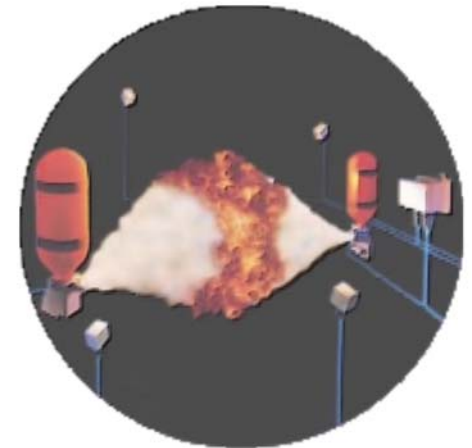
F	-40	-22	-4	14	32	50	68	86	104	122
C	-40	-30	-20	-10	0	10	20	30	40	50
PSI	585	620	655	690	730	770	810	850	905	955

- ENSURE SAFETY PIN IS ALWAYS INSTALLED.** This will prevent inadvertent discharge of the Cable Discharge Lever.

WARNING

- AFES Safety: DO NOT ALLOW PERSONNEL TO BE WITHIN 6 inches / 152 mm of the discharge nozzle.** Serious injury could occur.
- Anti-Recoil Plug: DO NOT TRANSPORT, REMOVE, or MAINTAIN THE AFES BOTTLE without the Anti-Recoil Plug being installed in place of the discharge nozzle.**

Fire Suppression Safety Smart Card



SYSTEM OVERVIEW

ENGINE FIRE SYSTEM: “Engine Fire” lamp will illuminate in the event of engine fire. System will automatically discharge to suppress the engine fire. Once safe, stop the vehicle and perform proper shutdown procedures In Accordance With Standard Operating Procedures (IAW SOP). Some vehicles have a manual 2nd shot.

CREW FIRE SYSTEM: System will automatically discharge to suppress the crew compartment fire. Once safe, stop the vehicle and perform proper shutdown procedures IAW SOP.

GREEN LED: AFES is on. Solid Green means system is normal.

AMBER LED: Crew or Engine AFES trouble. A blinking light indicates a problem with the sensor detection circuit, while a solid light indicates a problem with the extinguishing valve circuit.

DO NOT OPERATE VEHICLE until cleared by maintenance, if AMBER LED is illuminated.

SENSORS: Sensors must have clear field of view for proper function. Keep area clear of equipment. Ensure IR windows are kept free of dirt and oil. Use only a clean damp rag to clean. Never use cleaners on the AFES Sensor.

CHECK ALL Sensors for GREEN LED.

BATTERY BACKUP: System will remain active for at least 30 minutes after vehicle shutdown.

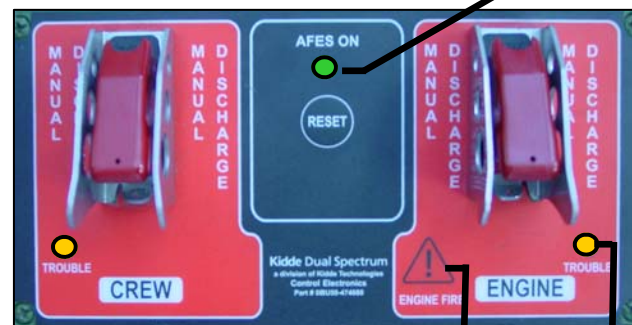
FIRE SUPPRESSION CONTROLS

GREEN LED: System ON

Solid GREEN indicates power is “ON” and system is operational.

Flashing GREEN indicates “low or high battery power”.

Slow Flashing GREEN 9 Seconds On, 1 Second Off indicates manual discharge.



RED LED:

Engine Fire Warning Lamp

Solid RED indicates the “fire detector is activated” and remains ON for duration of detection-plus 1 second.

RESET: Maint Personnel

AMBER LED:
System Trouble

MANUAL DISCHARGE SWITCH

To Immediately Discharge AFES System:

- 1 Lift Guard, Breaking Wire Seal on Guarded Switch



- 2 Activate Switch
Hold for 1/2 second

Following System discharge; exit the vehicle once it is safe to do so. Breathing the agent following discharge, for several minutes, will not result in harm.

DO NOT DISABLE THIS SYSTEM. It Could Save Your Life, or the Lives of Your Crew.