



Vehicle Information

Amerex
7595 Gadsden Highway
Trussville, AL 35173-0081

Make: CAT
Type: Haul Truck
Model: 789D
No Engines: 1
Engine HP: Gross 1,900 HP

Operating Weight: 715,000 lb
Hydraulic Capacity:
Diesel Capacity: 550 Gal
No. Turbo Chargers: 2
Capacity CU Yards: 200Ton

Date Rev: 3/11/14
VSDE No:
Drawing No:

Purpose: Amerex Fire Suppression Systems and components are FM approved and designed to suppress fires on mobile and self-propelled equipment. The primary mission of these systems is to suppress the fire long enough for the operator(s) to safely exit the vehicle/equipment and minimize subsequent damage. They are not intended to be able to extinguish any possible fire that could occur on or near the vehicle. Fires that originate outside of the protected area, within combustible materials outside of the vehicle, environmental hazards and excessive amounts of pressurized flammable liquids are examples of hazards which could exceed the capability of the fire suppression system.

Bill of Materials

QTY	Part #	Description
2	22373	V75 ABC agent cylinder
2	10199	Discharge Fitting Kit
6	10178	Distributor 3/4 x 1/2-4
2	22517	Distributor 3/4 x 5
20	10250	Cone Nozzle w/Blow-off Cap
2	10147	Pneumatic Control Head
1	10173	Vent Check
1	10262	Check Valve
2	09956	Nitrogen Cylinder
1	10210	Manual Actuator
1	20775	Electric Nitrogen Actuator
1	14053	Manual Switch
1	22579	Linear Actuator
2	22260	Bracket, Agent cylinder 75
20	10780	Bracket, Nozzle - 90 Degree
2	10354	Bracket, Outdoor Actuator
1	17311	Control Panel III Leads (Back Wiring Exit)
1	16473	Actuator Lead, Shielded - 20'
1	14017	Power Lead - 25'
3	20083-25	Modular Linear Wire (ALHD) w/Spring 25'
1	16457	Thermostat/Manual Switch Lead, Shielded - 3'
1	16458	Thermostat/Manual Switch Lead, Shielded - 6'

Supplemental Protection:

In applications where there is an opportunity for Flammable Liquids to come into contact with heated surfaces beyond the discharge time of the dry chemical discharge a secondary discharge of Amerex ICE is recommended. The ICE system will cool the surface temperatures and reduce the possibility of a fire re-ignition.

QTY	Part #	Description
1	19570	ICE6 extended discharge
1	22966	ICE6 Bracket
6	21981	Close Range Single Nozzle ICE
6	10780	Bracket Nozzle
1	10147	Pneumatic control head
1	22698	Distribution Block 6-1/2 inch outlets
6	19248	Reducer Bushing 1/2" NPT 3/8" NPT
1	10199	Discharge fitting kit

The purpose of this Bill of Materials (BOM) is for reference and estimation purposes only and does not replace an onsite hazard analysis. The BOM estimate should be considered the Minimum level of protection and a complete onsite hazard analysis is required to identify final protection requirements. Additional distributor supplied materials (hose, fittings, hardware etc) not supplied by Amerex will be required.

Note #1

Note #2

Potential Nozzle Locations

Nzl Qty	Haz Description	Nzl Qty	Haz Description
4	Turbo/Engine top 2 per Turbo	2	Hydraulic Pumps
4	Exhaust Manifold	2	Transmission
2	Engine Right side	1	Valve bank
2	Engine Left	1	Torque Converter
2	Hydraulic Hosess		

ICE liquid Nozzles

Nzl Qty	Haz Description
4	2 per turbo
2	Exhaust Manifold

Do Not use these Potential Nozzle locations for final nozzle placement without conducting a complete hazard analysis on the machine.

Note: The information provided in this form is for reference and estimation purposes only. Estimates are determined by information provided in whole or part by the vehicle manufacturer, available sales literature and data sheets, OEM dealers, Amerex field surveys, Amerex distributor experience and field surveys and comparisons with similar types of equipment. Modifications and optional accessory equipment made at the factory, dealer or end user site could change the protection requirements and nullify previous field surveys. A complete hazard analysis and risk assessment will have to be performed on the vehicle to determine the most probable ignition sources along with the fire characteristics and quantity of the various fuels exposed to the ignition sources. The Amerex Fire Suppression system requires periodic maintenance by factory trained and certified individuals to maintain the system in operable condition, including assessing the vehicle for any changes that may affect the system performance.