

## **⚠ WARNING**

When working on air system components the following precautions should be observed.

1. Stop engine when working under a vehicle. Always block the vehicle wheels to prevent a fore or aft roll. Bleeding off system pressure may cause the vehicle to roll. Keep hands away from brake chamber push rods and brake adjusters; they may apply as system pressure drops.
2. Never connect or disconnect a hose or line containing air pressure. It may whip as air escapes. Never remove a component or a pipe plug unless you are certain all system air pressure has been exhausted.
3. Never exceed recommended working air pressure and always wear safety glasses when working with air pressure. Never look directly into component ports or direct a pressurized air flow at anyone.
4. Never attempt to disassemble a component until you have read and understood all recommended procedures. Some components contain powerful springs and injury can result if not properly disassembled. Use only proper tools and observe all precautions pertaining to the use of those tools.

## **A72420 ALCOHOL EVAPORATOR**

The alcohol evaporator is an automatic vaporizing device for keeping air lines and air reservoirs free of ice. It may be used with any make of air compressor. The evaporator is connected into the compressor discharge line between the compressor and the air reservoir — after the air dryer, if the vehicle is so equipped. The warmed compressed air stream is pumped by the compressor through a venturi shaped passage in the evaporator. A small passage ahead of and angled to the venturi admits air to the liquid alcohol below and also introduces the



**A72420 Alcohol  
Evaporator**

# A72420 ALCOHOL EVAPORATOR

## A72420 ALCOHOL EVAPORATOR (CONT'D)

resulting alcohol vapor into the air stream. Leaving the venturi, the air stream passes through a one-way check valve located in the evaporator outlet. The check valve prevents a back flow from the air reservoir and enables removing the alcohol injector filler cap to refill the unit with alcohol without depleting the air reservoir.

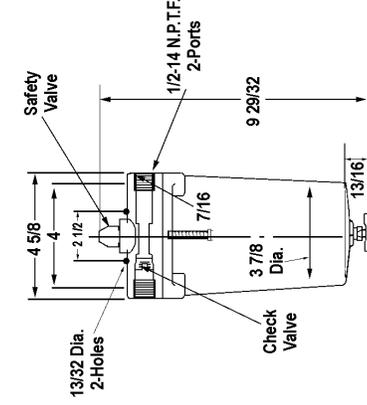
### SERVICE AND DISASSEMBLY

**During the antifreeze season** – At 1500 mile intervals or less, slowly remove filler cap to release any pressure, fill with methyl alcohol type antifreeze and replace cap. Reservoir capacity is 40 ounces.

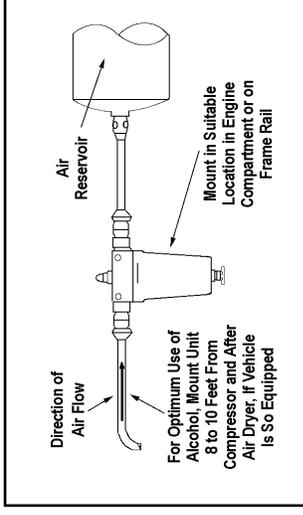
**Off season** – Drain unit of antifreeze. At regular engine service intervals, open drain cock to rid unit of moisture. Before reactivating the evaporator for next season, drain, disassemble, steam-clean unit of any sludge, and inspect. It is advisable to replace rubber parts with Maintenance Kit (Part Number A39219, See Reverse Side For Details).

**Disassembly** – Remove safety valve/filler cap and check cap tetraseal. Remove cap screws and drop reservoir from cover. Remove cover tetraseal. Drain air tank, disconnect line from evaporator outlet and pick out check valve retainer, spring and disc. **NOTE:** Some early models also included a check valve at the inlet. This valve has been found unnecessary and should be removed and discarded. Reassemble unit. Before filling, apply air pressure and suds joints to check for leaks.

### FOR FURTHER INFORMATION SEE TECHNICAL DRAWINGS/SPECIFICATIONS



### Typical Installation

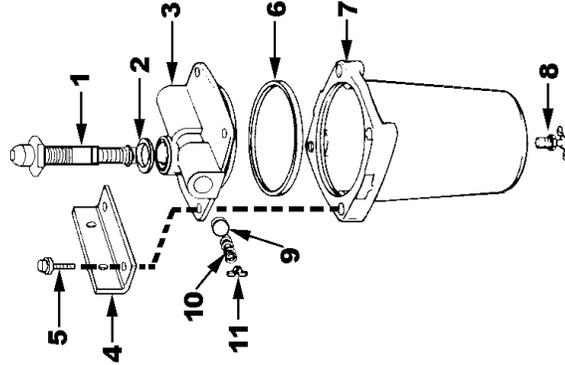


REPLACEMENT UNIT - Part Number A72420

MAINTENANCE KIT - Part Number A39219  
(Parts Indicated Below \*)

SAFETY VALVE - Part Number A75962

1. Safety Valve/Filler Cap
- 2.\* Tetraseal, Filler Opening
3. Cover
4. Flange, Mounting
5. Screw-Lockwasher, Cover (5/16 - 18x1" Hex Head, Self-Tapping, Four Included)
- 6.\* Tetraseal, Cover
7. Reservoir, Alcohol
8. Drain Cock, Reservoir
- 9.\* Disc, At Outlet Check Valve
- 10.\* Spring, At Outlet Check Valve
- 11.\* Retainer Clip, At Outlet Check Valve



### Commercial Vehicle Systems

Haldex Brake Products Corporation  
10707 N.W. Airworld Drive  
Kansas City, Missouri 64153-1215  
(816) 891-2470  
Fax: (816) 801-4198

Haldex Limited  
525 Southgate Drive, Unit 1  
Guelph, Ontario  
CANADA N1G 3W6  
(519) 826-7723

[www.haldex.com](http://www.haldex.com) / [www.hbsna.com](http://www.hbsna.com)