

# Technical Bulletin

Bulletin No: TCH-008-032-A

Effective Date: 11/29/99

Cancels: NA

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## Subject: AIR DRYER CARTRIDGE DEFECT

It has been brought to our attention that there was a manufacturing defect in a small number of AD-SP and AD-IS air dryer cartridges. The defective air dryer cartridges may allow desiccant beads to pass from the cartridge into the purge valve assembly of the air dryer. If the desiccant becomes trapped in the purge valve assembly, the purge valve may be prevented from closing completely, causing the system to leak charge air to atmosphere. This leakage of air will then result in the inability to build system air pressure.

The table on page two identifies suspect piece numbers and their corresponding date codes. The defect has been corrected, therefore all components manufactured on or after November 13, 1999 (L1399H) are not suspect.

1. If the system is unable to build air pressure, inspect the air dryer for leakage around the purge valve during the charge cycle. Wear appropriate eye protection and review all caution notes printed in the service manual for the appropriate air dryer (SD-08-2415 for the AD-SP or SD-98-9808 for the DRM with AD-IS).
2. Refer to instruction sheets provided in the maintenance kits where applicable.
  - a. Use a strap wrench to remove the cartridge. Position the strap wrench next to the lower lip of the cartridge to prevent cartridge damage. Turn the cartridge counterclockwise to remove.
  - b. If desiccant beads are present in the purge valve area, the air dryer cartridge and purge valve assembly must be replaced. See page two for service replacement piece numbers.
  - c. Remove the purge valve snap ring and purge valve assembly.
3. Using shop air, remove all desiccant material from the air dryer body assembly. **Caution:** Wear proper eye protection when using compressed air to blow the desiccant out of the air dryer body assembly.
4. Wipe all of the body bores clean with a clean rag.
5. Install the air dryer cartridge.
  - a. Lubricate the cartridge sealing ring with lubricant provided.
  - b. Screw the desiccant cartridge on to the body, by hand, clockwise until the seal makes contact with the body. Turn one full turn. If necessary, place a strap wrench on the desiccant cartridge next to the lower lip of the cartridge.
6. Install the purge valve assembly and test per the installation instruction sheet.



The piece numbers that are suspect are shown below with their respective date codes. Also shown are the appropriate cartridge and purge valve assembly piece numbers to be used for servicing the air dryer. Ensure the date code of the component you are using for service does not fall within the defective range.

## Suspect Piece Numbers and Service Replacements

Description	Defective Component Date Code	Suspect Piece Numbers	Cartridge Service Replacement Piece Numbers	Purge Valve Assembly Service Replacement Piece Numbers
AD-SP	H2399H – L1299H (8/23/99 – 11/12/99)	065691 065694 109872 131031 131032 800042 800043 5000104 5000445 5000587 5002747 5002748 5006639	109994	109995
AD-IS	All dates through L1299H (11/12/99)	800383 5003424	109994	800404
Cartridge Kit (Truck Prod.)	J2599H – L1299H (9/25/99 – 11/12/99)	BR950011	BR950011	N/A
Cartridge Kit	H2399H – L1299H (8/23/99 – 11/12/99)	109994	109994	N/A

Return all defective or suspect piece numbers to:  
 Truck Brake Systems Co.  
 1850 Riverfork Dr. West  
 Huntington, IN 46750

Phone 1-800-247-2725