



Countries: CANADA, UNITED STATES **Document ID:** IK0400163
Availability: ISIS, Fleet!SIS, NotSIR **Revision:** 0
Major System: BRAKES **Created:** 8/14/2020
Current Language: English **Last Modified:** 10/9/2020
Other Languages: NONE **Author:** David Horner
Viewed: 160

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Coding Information

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Title: LT Foot Valve Air Leak- Bendix ATR6 Traction Control Relay Valve Diagnostics

Applies To: LT w/ X15 Engine w/ 04ECC Air Dryer w/Bendix 4 or 6 Channel ABS ESP ATC

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/09/2020 - Initial Article Release

DESCRIPTION

This document will guide the user through diagnostic steps for International LT tractors built with Bendix ATR6 Traction Relay Valve & provide instructions on installation of an upgraded air dryer filter cartridge.

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
N/A	N/A

Customer Observations or Concerns:

Foot valve in cab leaking air

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A	N/A	N/A	N/A

SERVICE PARTS INFORMATION

NOTE: Diagnostic steps below will determine if these PN's are needed.

Kit Description	Part Number	Notes
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AD-SP/IS Desiccant Cartridge Filter Kit	BX5008414PG	Puragaurd OilCoalescing Filter
VALVE, ATR6 TRACTION RELAY VALVE, BENDIX, 4.0 PSI	BXK070962	Front
VALVE, ATR6 TRACTION RELAY VALVE, BENDIX, 5.5 PSI	BXK070955	Rear

DIAGNOSTIC STEP(s)

Step	Action	Decision
1	DIAGNOSTIC: Inspect for any of the following symptom • Foot valve air leak Is the symptom present?	Yes: Continue to Step 2
		No: Procedure complete

Step	Action	Decision
2	DIAGNOSTIC: Drain oil from all air tanks into a container. Is there enough oil to begin the Bendix BASIC test?	Yes: Conduct the Bendix BASIC test starting on page 17 of BW1971 , repair as necessary, continue to step 3
		No: Continue to Step 3

Step	Action	Decision
3	DIAGNOSTIC:	Yes: Continue to Step 4

Carefully listen for air leaks from the foot valve in the cab when the service brakes are not applied. If there is an air leak is present: - Locate the front Bendix ATR6 valve control port - Disconnect the control line - Listen for the air leak at the foot valve to stop - Repeat steps a-c for the rear Bendix ATR6 valve if the leak did not stop NOTE: With no control applied from the foot valve the delivery (control) is open to exhaust Is the front or rear Bendix ATR6 valve causing air to leak from the foot valve?	No: Diagnose per Bendix SD-13-4861 ATR6 Antilock Traction Relay Valve and then continue to Step 4.
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Step	Action	Decision
4	DIAGNOSTIC: Remove the defective Bendix ATR6 valve and inspect for wetness or contamination in control line. Is oil present?	Yes: Conduct the cleaning procedure below the diagnostic steps, then return to step 5.
		No: Continue to Step 5

Step	Action	Decision
5	DIAGNOSTIC: Is the front or rear ATR6 failed?	Front: Install a new ATR6 following LT Service Manual procedures using the PN below then continue to step 6 BXK070962- VALVE, ATR6 TRACTION RELAY VALVE, BENDIX, 4.0 PSI
		Rear: Install a new ATR6 following LT Service Manual procedures using the PN below then continue to step 6 BXK070955- VALVE, ATR6 TRACTION RELAY VALVE, BENDIX, 5.5 PSI

Step	Action	Decision
6	DIAGNOSTIC: Inspect the air dryer filter cartridge model. Is the vehicle equipped with a Bendix AD-SP/IS Desiccant Puragaurd Oil Coalescing Cartridge Filter Kit?	Yes: Repair complete
		No: Install Bendix AD-SP/IS Desiccant Puragaurd Oil Coalescing Cartridge Filter Kit PN BX5008414PG, repair complete Please review Warranty Information section below

Cleaning procedure

1. Apply parking brake & chock the wheels
2. Drain air system
3. Remove and secure both ends of the air line from the ATR6 to the footvalve
4. Use safety glasses & shop air to blow through the lines until the line blows clean

Recommended Service Intervals for Bendix AS-IS Air Dryers

Recommended Service Intervals for Bendix AD-IS Air Dryers							
Air Usage	Typical Vehicle Vocation	Axles	*Reservoir Drain Interval (whichever comes first)			Bendix Standard Cartridge Replacement	PuraGuard® Oil Coalescing Cartridge Replacement
			Hours	Mileage	Time		
Standard	Line haul, city, delivery	5 or less	900	25,000	3 months	36 months	24 months or 200,000 miles
Medium	Double trailers, light transit, light off-highway	8 or less	450	12,000	2 months	24 months	18 months or 150,000 miles
High	Multiple trailers, city transit, heavy duty off-road	11 or less	300	6,000	1 month	12 months	12 months
*Change the desiccant cartridge more frequently if more than just traces of moisture are found in any of the reservoirs when draining them.							
Table 3 - Service Intervals							
7							
Figure 1: Bendix Recommended Service Intervals for AD-IS Dryers							
SD-08-2418 Bendix AD-IS Systems							

WARRANTY INFORMATION

IK0400163 authors special warranty submission approval for Puragaurd Oil Coalescing filter when following the 3 rules below;

1. Vehicle build date is 4/5/2020 or before
2. An Oil Coalescing filter is not currently installed

3. When an ATR6 has failed

NOTE:

All parts returned to Navistar Parts Return Center are subject to standard review, testing, and reimbursement policies.

NOTE:

Warranty submission for PuraGaurd Oil Coalescing filter (BX5008414PG) is **NOT** allowed under the following circumstances:

- Twice (2 times) on 1 VIN
- Or on vehicles already equipped with PuraGaurd Oil Coalescing filter
- Or on vehicles built with the feature code - **0004EDJ** - AIR DRYER {Bendix AD-IS} with Heater, Includes Pressure Protection Circuits, Safety Valve, Integral Purge Tank, Integrated PuraGuard Coalescing Filtration

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the SRT Manual for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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