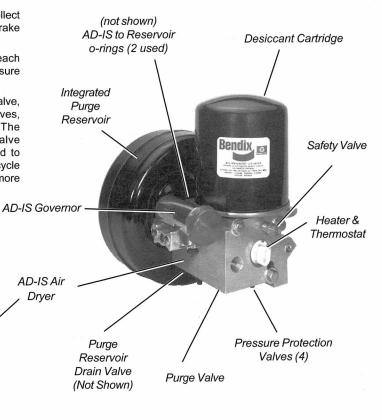
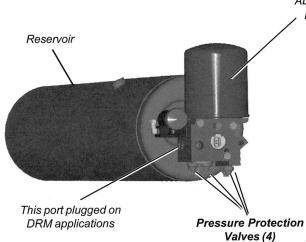
The AD-IS Air Dryer uses a "spin on" desiccant cartridge to collect and remove air system contaminants before they enter the brake system.

The function of the pressure protection valves is to protect each reservoir from a pressure loss in the other reservoir or a pressure loss in an air accessory.

The base assembly contains a check valve assembly, safety valve, heater and thermostat assembly, four pressure protection valves, threaded air connections and the purge valve assembly. The removable purge valve assembly incorporates the purge valve mechanism and a turbocharger cutoff feature that is designed to prevent loss of engine "turbo" boost pressure during the purge cycle of the AD-IS air dryer. See Service Data Sheet SD-08-2418 for more information.





The function of the Dryer Reservoir Module (DRM) is to provide heavy vehicles with an integrated vehicle air dryer, secondary reservoir, purge reservoir, governor and a number of the charging valve components in a module. The DRM includes an Integrated Solution Air Dryer, the AD-IS, a reservoir (including a separate purge reservoir section) a governor and four pressure protection valves. See Service Data Sheet SD-98-9808 for more information.

Weight

62 lbs (Air Dryer assembly 14.2 lbs.) approx.

(Air Dryer) VMRS

13-010-033

Device Code

9808

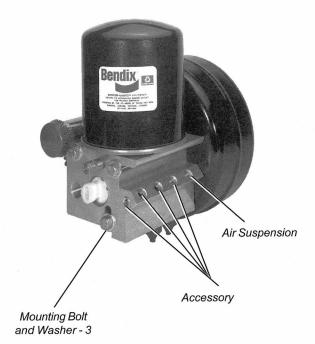
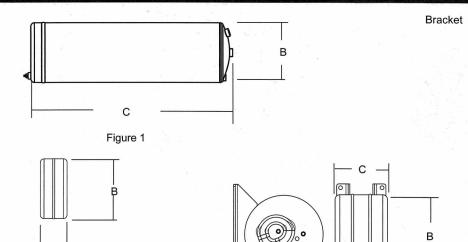
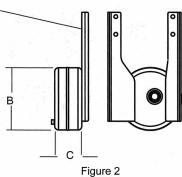


Figure 3





Service and Remanufactured AD-IS Air Dryers do not include DRM Reservoirs or Purge Volume Reservoirs.

Figure 4

Dryer Reservoir Modules

	Diyel Reservoir Modules									
DRM O.E. Pc. No.	AD-IS O.E. Pc. No.	AD-IS Service Pc. No.	AD-IS Reman. Pc. No.	Reservoir Service Pc. No.	'A' Port* Plug	Primary Port	Secondary Port	Suspension Port	Accessory Ports (Qty.)	
5003227	5003424	800383	5004050X	5005313	without	1/4" NPT	Integral	1/4" NPT	1/4" NPT(4)	
NA	5003424	800383	5004050X	5009107	without	1/4" NPT	Integral	1/4" NPT	1/4" NPT (4)	
5007593	5008184	800838	5008332X	5007588	without	3/8" PTC	Integral	1/4" PTC	1/4" NPT (4)	
5009232	5009482	801045	5009233X	5008939	without	1/4" NPT	Integral	1/4" NPT	1/4" NPT (4)	

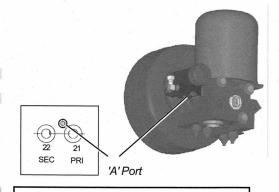
AD-IS Air Dryer with Purge Volume

AD-IS O.E. Pc. No.	AD-IS Service Pc. No.	AD-IS Reman. Pc. No.	Purge Vol. Service Pc. No.	'A' Port* Plug	Primary Port	Secondary Port	Suspension Port	Accessory Ports (Qty.)	Purge Volume
5005921	800959	5008871X	5008781	without	1/2" PTC	1/2" PTC	1/4" NPT	1/4" NPT (4)	Standard
5010134	801147	5010133X	5008574	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (4)	Standard
5010212	801164	5010211X	5008574	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (4)	Standard
5010694	801266	5010696X	5008574	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (3)	Standard
5010135	801147	5010133X	5009028	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (4)	EP
5010695	801266	5010696X	5009028	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (3)	EP
5008296	801145	5010104X	5009028	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (4)	EP
5008779	801264	5010684X	5010563	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (4)	DLU-EP
5010213	801164	5010211X	5009028	with	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT (4)	EP
Purge Volu	me EP = E	xtended Pur	ge DLU = D	ischarge Lin	e Unloader				

Reservoirs

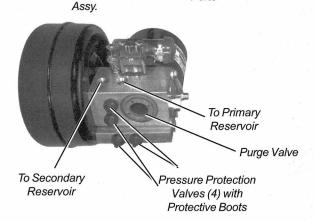
Service Pc. No.	'B' Dia. Inches	'C' Length Inches	Compartment Number	Comments	Figure
5005313	9	53.5	2	Steel	19.70
5009107	9	55.5	2	Aluminum	1
5007588	9	26	3	Steel	11111
5008939	9	29.8	2	Steel	1

Purge Volume							
Service Pc. No.	'B' Dia. Inches	'C' Length Inches	Compartment Number	Mounting Bracket	Figure		
5008781	9	3.9	1	Included	2		
5009028	9	6	4	4 Hole SAE Mtg.	3		
5008574	9	3.9	1	4 Hole SAE Mtg.	3		
5010563	9	6	1	Included	4		



*AD-IS Dryers with a plugged port 'A' can not be interchanged with those that do not have a port in this location.

Desiccant Purge Volume Cartridge Reservoir Governor Bendix, Supply Port Air Suspension **Port** Accessory Heater/Thermostat **Ports**



KITS AND SERVICE PARTS

AD-IS to Reservoir o-rings (2 used)	5002816
Delivery Check Valve Replacement Kit	5004052
Desiccant Cartridge Replacement	5008414
Governor Adapter	5003698
Governor Check Valve Kit	5004049
Governor Gasket	5007834
Heater & Thermostat Replacement (12 volt)	109495
Heater & Thermostat Replacement (24 volt)	109496
Mounting Bolt Kit	5009233
Protective Boots (for pressure protection valves)	5005163
Purge Valve Maintenance Kit	5003547
Safety Valve	800350
Service Purge Valve Kit	
Service Purge Valve Kit - DLU	5009650
Splash Shield Kit (includes bracket and cover)	5006698
Splash Shield Cover	5005266
Wire Retainer (optional for cover)	5009653

NOTE: There are no kits available for the pressure protection valves. These are not serviceable items - see warning below.

WARNING:

Do not attempt to adjust or service the Pressure Protection valves. Incorrect pressure protection valve settings can result in automatic application of vehicle spring brakes without prior warning.

GOVERNOR AND DELIVERY CHECK VALVE REPLACEMENT

Governor and Delivery Check Valve Rep. Kit 5004049 Delivery Check Valve Replacement Kit 5004052

GOVERNOR / DELIVERY CHECK VALVE REPLACEMENT KIT

Governor (AD-IS preset) Check Valve Maintenance

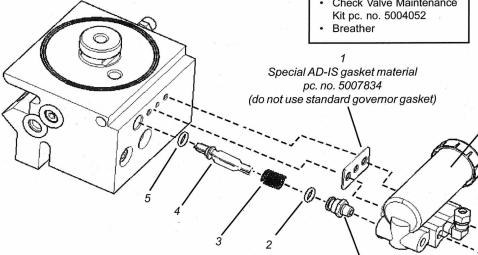
5004049

Key Description Governor Gasket Large O-Ring 2 3 Spring Check Valve Body 4 5 Small O-Ring Grease

DELIVERY CHECK VALVE

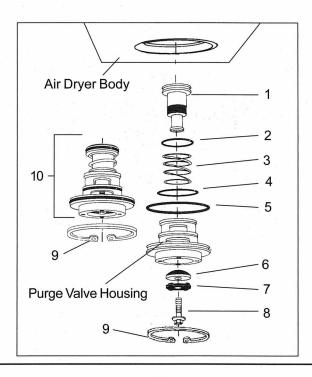
MAINTENANCE KIT

5004052



AD-IS preset governor Use 130 psi cut-out governor only. If replaced by a standard adjustable governor (bench calibrated to 130 psi cut-out), do not use standard gasket.

Adapter pc. no. 5003698 Mounting bolts



Service Purge Valve	800404
Service Purge Valve - DLU	5009650
Purge Valve Maintenance Kit	5003547

SERVICE PURGE VALVE 800404 & 5009650(DLU)

Key Description

- 2 Quad-Ring
- 4 O-Ring 5 O-Ring
- 9 Retaining Ring
- 10 Purge VIv. Cartridge Assy. Barium Grease

PURGE VALVE MAINT. KIT 5003547

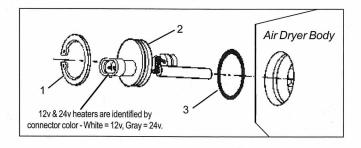
Key	Description
1.	Purge Valve Piston
2	Quad-Ring
3	Piston Return Spring
4	O-Ring
5	O-Ring
6	Purge Valve

7 Exhaust Guide 8 Shoulder Bolt 9 Retaining Ring Assembly Tool Barium Grease

Heater & Thermostat Replacement Kit (12 volt) 109495 Heater & Thermostat Replacement Kit (24 volt) 109496

Key Description

- 1 Retaining Ring
 - Heater & Thermostat Assembly
- 3 O-Ring
 - Dielectric Lubricant
 - Silicone Lubricant



Mounting Bolt Kit Piece No. **5009233** Consists of the following:

Item	Qty.
3/8" Mounting Bolts	3
3/8" Washer	3

WARNING:

Do not attempt to adjust or service the Pressure Protection valves. Incorrect pressure protection valve settings can result in automatic application of vehicle spring brakes without prior warning.