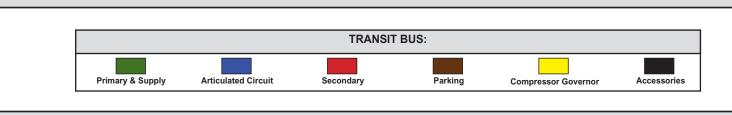


Bendix®

Transit Bus Air Brake System Troubleshooting



The color coding of the brake system schematic follows APTA Recommended Practice. Air disc & drum brake actuation combined on a single axle are shown for pictorial purposes only.

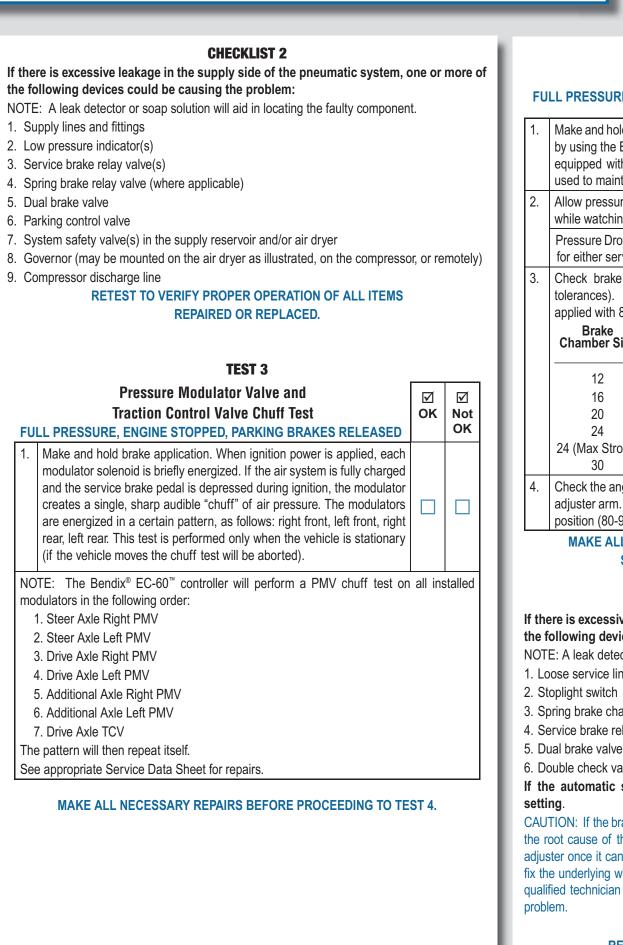
Equipped with Bendix® ABS and Smart ATC™ Traction Control.

Articulated Transit Bus Air System Schematic **BA-922**[®] **Extended** Purge Air Compressor Versajust[™] Automatic Slack Adjuster and **Service Chamber** PP-DC® **Rear Axle** Control Module (RAM) with Accessories R-14[®] Relay Valve **Rear Axle Stop Light** Module Switch (RAM) **Front Axle** Traction with R-14® Module Reservoir Solenoid **Relay Valve** (FAM) with Quick /lulti-Relay Valve with Conto Valve Valve **■ R-14**® Relay EC-60™ Valve **Electronic** Controller **Valve Antilock Modulator** (6 places) Mid Reservoir Low Pressure **Through** Indicator Point of Versajust[™] Automatic **Versajust™ Automatic** Slack Adjuster and **Articulation** Slack Adjuster and EverSure® Spring Brake EverSure® Spring Brake Chamber Chamber **FRONT AXLE MID AXLE REAR AXLE**

Governor cut-out / Low pressure warning / Pressure build-up VEHICLE PARKED, WHEELS CHOCKED Drain all the reservoirs to 0 psi. Start the engine and run at fast idle. The low pressure warning should be on. Note: on vehicles equipped with ABS, the warning lamp will also come on momentarily when the ignition is turned on. On some systems such as the Bendix® AD-IS® dryer system (illustrated), reservoirs may not fill simultaneously and one reservoir may fill to 110 psi before the other starts to fill. Low pressure warning; dash warning lamp should go off above 60 psi. Build-up time; pressure should build from 85-100 psi within 40 seconds at maximum recorded governor RPM. Governor cut-out; cuts-out at the correct pressure, usually 125-135 psi. Governor cut-in; reduce the service air pressure to governor cut-in. The difference between cut-in and cut-out pressure must not exceed 30 psi. MAKE ALL THE NECESSARY REPAIRS BEFORE PROCEEDING TO TEST 2; SEE CHECKLIST 1 FOR COMMON CORRECTIONS. **CHECKLIST 1** If the low pressure warning lamp or buzzer doesn't come on: Check the warning lamp wiring. 2. Check the warning lamp bulb. 3. Repair or replace the buzzer, bulb or low pressure warning switch(es). If the governor cut-out is higher or lower than specified by the vehicle manual: 1. Repair, replace or adjust the governor as necessary after ensuring the compressor unloader mechanism is operating correctly. If the low pressure warning occurs below 60 psi: 1. Check the dash gauge with test gauge known to be accurate. 2. Repair or replace the faulty low pressure indicator switch. If the compressor build up time exceeds 40 seconds or is considerably greater than the permanent record figure: 1. Examine the compressor air inlet filter and inlet line checking for restrictions, damage or wear. Clean or replace the filter or inlet line as necessary. 2. Check the compressor discharge port and line for excessive carbon. Clean or replace the discharge line as necessary. If there is carbon, find the cause of the excessive heat. 3. With the system fully charged and governor in the unloaded mode, listen at the compressor inlet for leakage. If leakage can be heard, remove the unloaders and repair or replace as RETEST TO VERIFY PROPER OPERATION OF ALL ITEMS REPAIRED OR REPLACED. TEST 2 Leakage (reservoir air supply) For additional information refer to OK Not video Assessing Air Brake System Air Leakage (BW2327 - CD) FULL PRESSURE, ENGINE STOPPED, PARKING BRAKES APPLIED Allow the air pressure to stabilize for at least 1 minute. Observe the dash gauge pressures for 2 minutes and note any pressure Pressure Drop: Single Vehicle (A 4 psi drop within 2 minutes is allowable for either service reservoir)

MAKE ALL NECESSARY REPAIRS BEFORE PROCEEDING TO TEST 3;

SEE CHECKLIST 2 FOR COMMON CORRECTIONS.



Leakage service air delivery FULL PRESSURE, ENGINE STOPPED, PARKING BRAKES RELEASED					✓ Not OK
1.	by using the Bendi equipped with a B	x®BVA-85™ brake valve	on. This can be accomplished actuator. If the vehicle is not uator, an assistant should be tring these tests.		
2.	Allow pressure to stabilize for 1 minute; then begin timing for 2 minutes while watching the dash gauges for a pressure drop.				
	Pressure Drop: Single Vehicle (A 4 psi drop within 2 minutes is allowable for either service reservoir)				
3.		•	(refer to chart for allowable		
3.	tolerances). With	•	eleased and service brakes the service chambers.		
3.	tolerances). With applied with 80 to Brake	the parking brakes re 90 psi of air pressure to Maximum Allowable	eleased and service brakes the service chambers. Max Allowable		

CHECKLIST 4

If there is excessive leakage in the service side of the pneumatic system, one or more of the following devices could be causing the problem:

NOTE: A leak detector or soap solution will aid in locating the faulty component.

1. Loose service lines and fittings

3. Spring brake chamber, service chamber and/or brake chamber diaphragms

4. Service brake relay valves

Dual brake valve

6. Double check valve

If the automatic slack adjuster is not adjusting, repair or replace to obtain desired

CAUTION: If the brake chamber push rod travel exceeds the allowable stroke, identify and correct the root cause of the excess stroke. Do not make manual adjustments of an automatic slack adjuster once it can no longer automatically adjust the brakes. Manual adjustment DOES NOT fix the underlying wheel end adjustment. As soon as possible, have the vehicle inspected by a qualified technician or consult the manufacturer's troubleshooting guidelines to find and fix the problem.

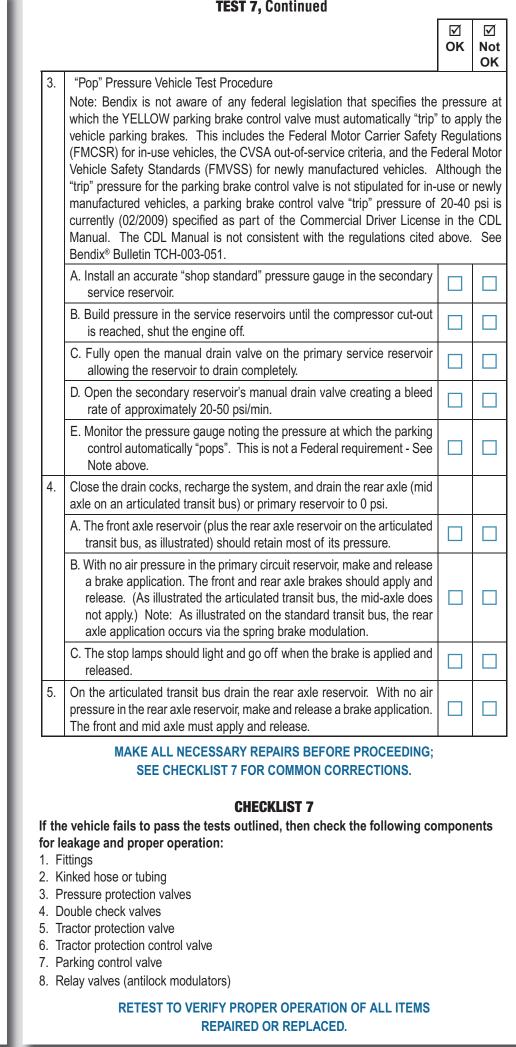
> RETEST TO VERIFY PROPER OPERATION OF ALL ITEMS REPAIRED OR REPLACED.

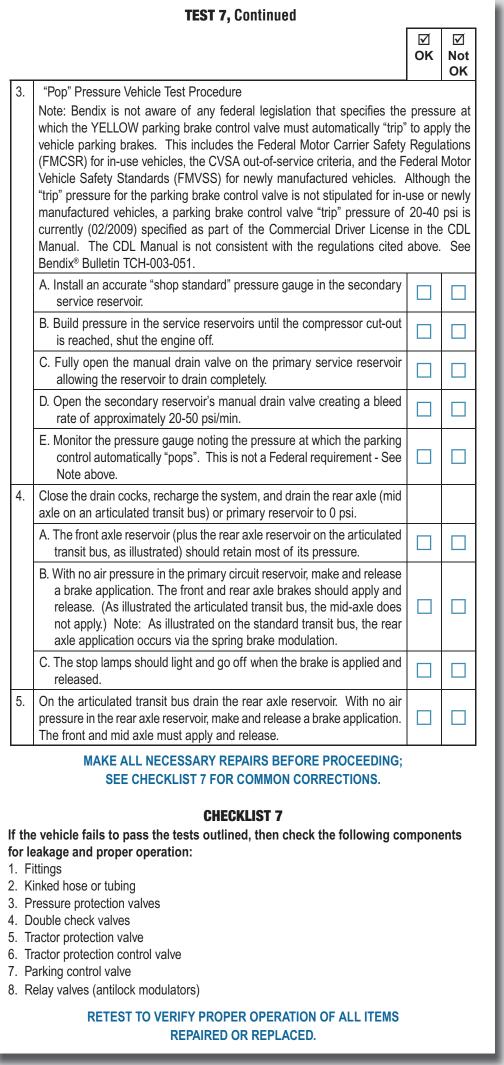
FULL PRESSURE, ENGINE IDLING 600-900 RPM OK NO FOR BUSES: 1. Manually operate the park control, yellow button valve, and note that parking brakes apply and release promptly as the control valve button is pulled out and pushed in. MAKE ALL NECESSARY REPAIRS BEFORE PROCEEDING TO TEST 7; SEE CHECKLIST 6 FOR COMMON CORRECTIONS. CHECKLIST 6 Is sluggish performance is noted in either test, check for: Dented or kinked lines Improperly installed hose fitting A faulty quick release valve or spring brake control valve Damaged or improperly installed Spring Brake Chamber and/or Service Chambers Foundation Brake component binding, improper installation and/or lack of lubrication RETEST TO VERIFY PROPER OPERATION OF ALL ITEMS REPAIRED OR REPLACE TEST 7 Dual circuit system integrity check (emergency braking) and/or automatic application of the parking brake FULL PRESSURE, ENGINE STOPPED, PARKING BRAKES RELEASED 1. Drain the front axle or secondary reservoir to 0 psi. A. The rear axle or primary reservoir should retain most of its pressure. 2. With no air pressure in the front axle reservoir, make a brake application. A. Rear axle brakes should apply and release when brake is applied and released. B. As illustrated on the articulated transit bus, the mid and rear axles should apply and release when the brake is applied and released.				OK
AKE ALL NECESSARY REPAIRS BEFORE PROCEEDING TO TEST 6; SEE CHECKLIST 5 FOR COMMON CORRECTIONS. CHECKLIST 5 If the vehicle fails to pass the tests outlined, then check the pressure reducing valve olenoid(s) for proper operation. RETEST TO VERIFY PROPER OPERATION OF ALL ITEMS REPAIRED OR REPLACE TEST 6 Manual parking brake operation FULL PRESSURE, ENGINE IDLING 600-900 RPM FOR BUSES: 1. Manually operate the park control, yellow button valve, and note that parking brakes apply and release promptly as the control valve button is pulled out and pushed in. MAKE ALL NECESSARY REPAIRS BEFORE PROCEEDING TO TEST 7; SEE CHECKLIST 6 FOR COMMON CORRECTIONS. CHECKLIST 6 I sluggish performance is noted in either test, check for: Dented or kinked lines I improperly installed hose fitting A faulty quick release valve or spring brake control valve Damaged or improperly installed Spring Brake Chamber and/or Service Chambers Foundation Brake component binding, improper installation and/or lack of lubrication RETEST TO VERIFY PROPER OPERATION OF ALL ITEMS REPAIRED OR REPLACE TEST 7 Dual circuit system integrity check (emergency braking) and/or automatic application of the parking brake FULL PRESSURE, ENGINE STOPPED, PARKING BRAKES RELEASED 1. Drain the front axle or secondary reservoir to 0 psi. A. The rear axle or primary reservoir should retain most of its pressure. 2. With no air pressure in the front axle reservoir, make a brake application. A. Rear axle brakes should apply and release when brake is applied and released. B. As illustrated on the articulated transit bus, the mid and rear axles should apply and release when the brake is applied and released.	1.	to all axles (typically 20 to 45 psi). Check with vehicle manufacturer		
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C. The stan lamps should light upon application and go off when the				
application is released.		C. The stop lamps should light upon application and go off when the application is released.		

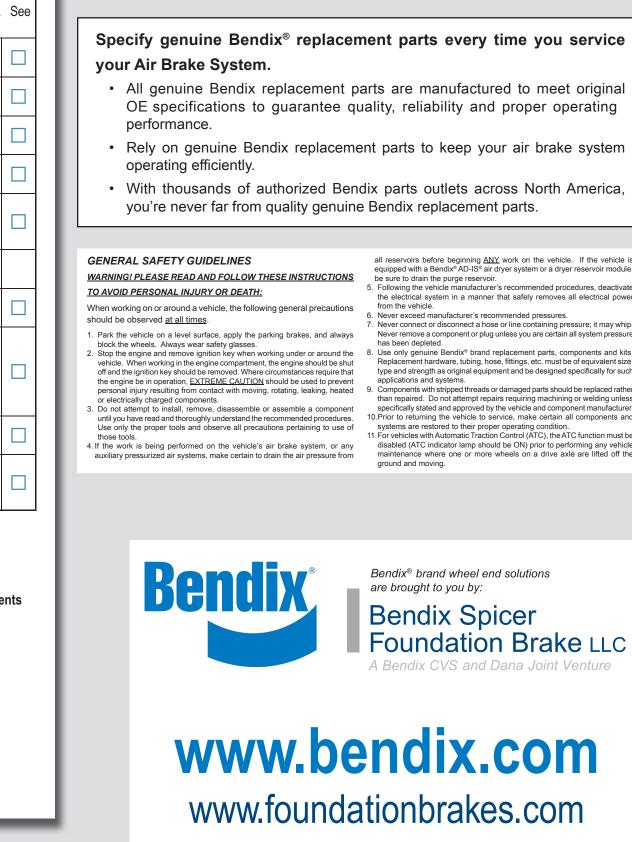
TEST 5

ENGINE STOPPED, IGNITION ON, PARKING BRAKES RELEASED OK Not

Door interlock







BW1114 Quick Reference Catalog

BW1555 Brake Balance Procedure

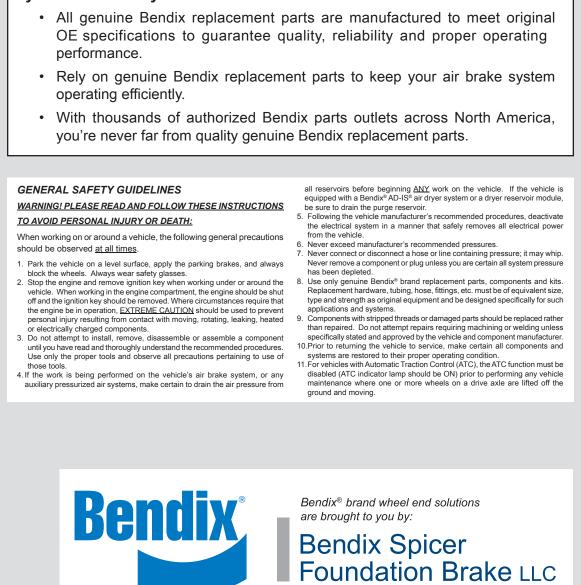
BW1640 School Bus Air Brake System

BW5057 Bendix Air Brake Handbook

Controllers

BW1396 Tractor Air Brake System Troubleshooting Wallchart

BW2780 Troubleshooting Bendix® ESP® Stability System Wallchart



Visit the Bendix document library online at www.bendix.com or

www.foundationbrakes.com for a complete listing of Service Data Sheets

and other literature including:

BW1397 Transit Bus Air Brake System Troubleshooting (small version of this document)

SD-13-4863 Service Data Sheet for Bendix® EC-60™ ABS/ATC Standard & Premium